SAMSUNG TOTAL SECURITY SOLUTION



Video Surveillance • Access Control

2011 New Products



SAMSUNG

Samsung **Total Security** Solution

With the worldwide threat of crime and terrorism increasing daily, the demand for high quality video surveillance systems is also growing rapidly. Users are demanding new capabilities and greater efficiency from their security systems. Samsung Techwin is dedicated to the goal of producing high performance products that introduce features and capabilities that push the boundaries of what can be done with those products. We are redefining what you should expect from total security solution.



Your Source for Professional Security Solution

Samsung Techwin was founded in 1977 as Part of Samsung's Machinery and Heavy Industries Group. This group has specialized in a wide range of high technology products such as semiconductor manufacturing systems, turbine engines, and defense systems. The need for advanced optical and image processing technologies came from the company's activities in these areas. After years of successful development of advanced optics and digital processing technology, the Security Solution division was created to provide commercial security products from these technologies. What you see in this catalog is not just another version of video security products produced from off the shelf components. Samsung Techwin's security solution products are based upon cutting edge technologies that are unique in the security industry. When you try our products you will experience the difference that these technologies provide.

Samsung Total Security Solution

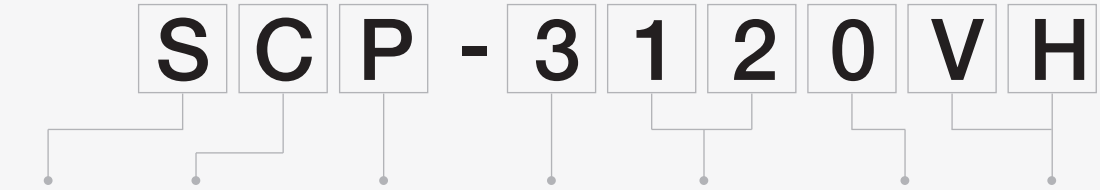
Product Numbering Rule

Network Camera



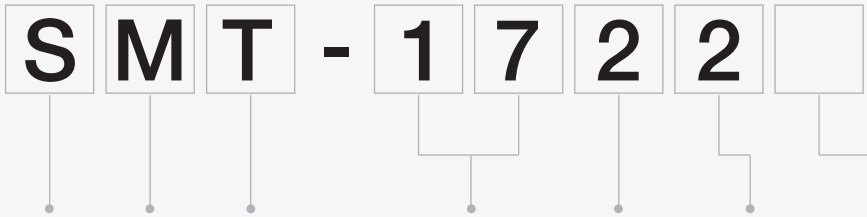
Samsung	Network Camera	Appearance	Sensor (Pixel No.)	Lens (Zoom Ratio)	Version No : 0 ~ 9	Etc. Feature
		B : Box Z : Zoom V : Dome(Vandal) D : Dome(Interior) P : PTZ U : P/T United O : One body box M : Module	9 : Special, EMCCD 8 : 4 Mega↑ 7 : 3 Mega 6 : 2 Mega 5 : 1.3 Mega 4 : SVGA 3 : WDR CCD 2 : BLC CCD 1 : VGA CMOS	00 : No Lens 01 : 3↓mm Fixed 02 : 3↑~ 4mm Fixed 03 : 4↑~ 6mm Fixed 04 : 6↑~ 10mm Fixed 05 : 10mm↑ Fixed 06 : 2x V/F 08 : 2↑~ 9x V/F 09 : 10x V/F xx : Zoom (PTZ, Zoom) 36 : 360° Fisheye		B : Black R : IR RF : IR + Flush F : Flush H : Housing C : Counting CF : Counting + Flush T : Tracking TH : Tracking + Housing VH : Vandal + Housing

Analog Camera



Samsung	Transmission (Video)	Appearance	Sensor (Pixel No.)	Lens (Zoom Ratio)	Version No : 0 ~ 9	Etc. Feature
	C : Camera U : UTP Camera	B : Box D : Dome (Interior) M : Module O : One body box P : PTZ U : P/T United V : Dome (Vandal) Z : Zoom	9 : Special 8 : 4 Mega↑ 7 : 3 Mega 6 : 3 Mega 5 : 1.3 Mega 4 : 1/2" 3 : WDR CCD 2 : BLC CCD 1 : VGA / 270K	00 : No Lens 01 : 3mm 02 : 4mm 03 : 6mm 04 : 8mm 05 : 10mm↑ 06 : 2x V/F 07 : 3x V/F 08 : 4 ~ 9x V/F 09 : 10x V/F xx : Zoom (PTZ, Zoom)		B : Black C : Counting F : Flush H : Housing R : IR T : Tracking V : Vandal HE : Heater

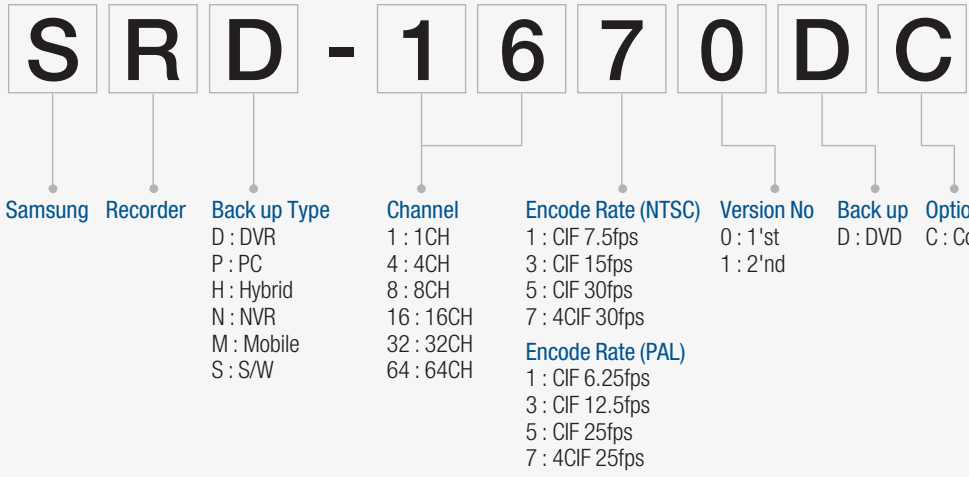
Monitor



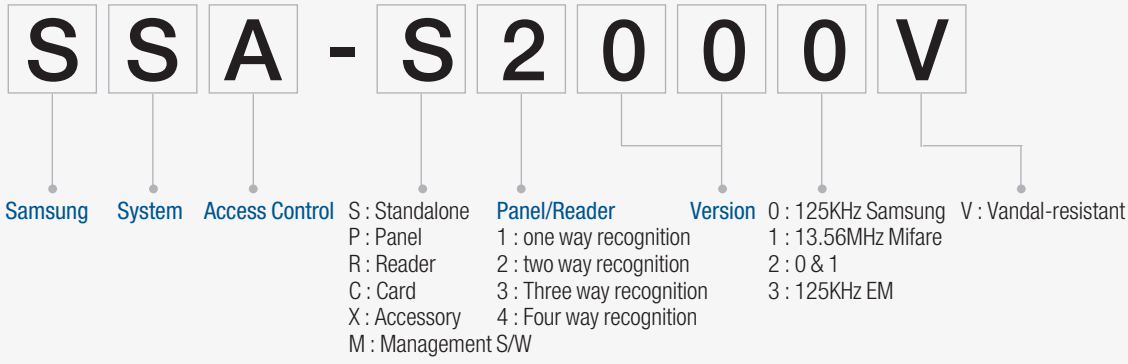
Samsung	Monitor	Appearance	Panel Size		Version No : 0 ~ 9	
		T : TFT-LCD C : CRT V : PVM E : AMOLED	17" ~ 40"	0 : BNC 1 : VGA 2 : VGA+BNC 3 : etc.		N : N/W E : Normal

Product Numbering Rule

DVR / NVR



Access Control System



Product Line up

NETWORK

	NEW SNB-7000	15
	SNB-5000	16
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	SNB-2000	18
	SNB-1000	19
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	NEW SNO-5080R	21
	NEW SND-7080/7080F	22
	SND-5080/5080F	23
	SND-3080C/3080CF	24
	SND-3080/3080F	25
	SND-1010	26
	NEW SNV-7080	27
	SNV-5080	28
	SNV-5010	29
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	SNV-3080	31
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NETWORK

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	NET-i viewer	42
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Product Line up

CAMERA


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SCV-2120 80


SCV-3080/2080 81


SCV-2060 82


SCV-2010F 83


SCV-2080R 84


NEW SCV-2081R 85


SCP-3120/3120V/3120VH 86

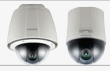

NEW SCP-2120 87


SCP-3430/2430 88


NEW SCP-3430H/2430H 89


NEW SCP-2370TH/2370 90


NEW SCP-3370TH/3370 91


SCP-2270H/2270 92


SCB-9051/9050 93


SCU-2370 94


SCU-9051 95


SCU-VAC/VAC1 96

LENS


SLA-12240/880 100


SLA-3580DN/2810D/ 550DA/612DN 101


NEW SLA-M2882/M3180DN 102

DVR


SRD-1670DC 107


SRD-1650DC 108


SRD-1630D 109


SRD-1610D 110


SRD-870DC 111


SRD-850DC 112


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SRD-470D 114


SRD-450 115


SVS-5R 116

MONITOR


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Product Line up

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SSA-R1000/R1001
SSA-R1100/R1101 155

ACCESS CONTROL SYSTEM


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SSA-R2000/R2001
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SSA-R2010/R2020/R2040
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PWR-24AC-16-8UL 164

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Indoor 
PWR-24AC-16-14 166

Indoor 
PWR-15DC-4-2UL 167

Indoor 
PWR-12DC-4-5 168

Indoor 
PWR-12DC-8-5 169

Indoor 
PWR-12DC-15-5 170

Indoor 
PWR-12DC-16-10 171

Indoor 
PWR-24AC-1-3-ULW 172

Indoor 
PWR-24AC-50-VA-UL 173

SAMSUNG

NETWORK

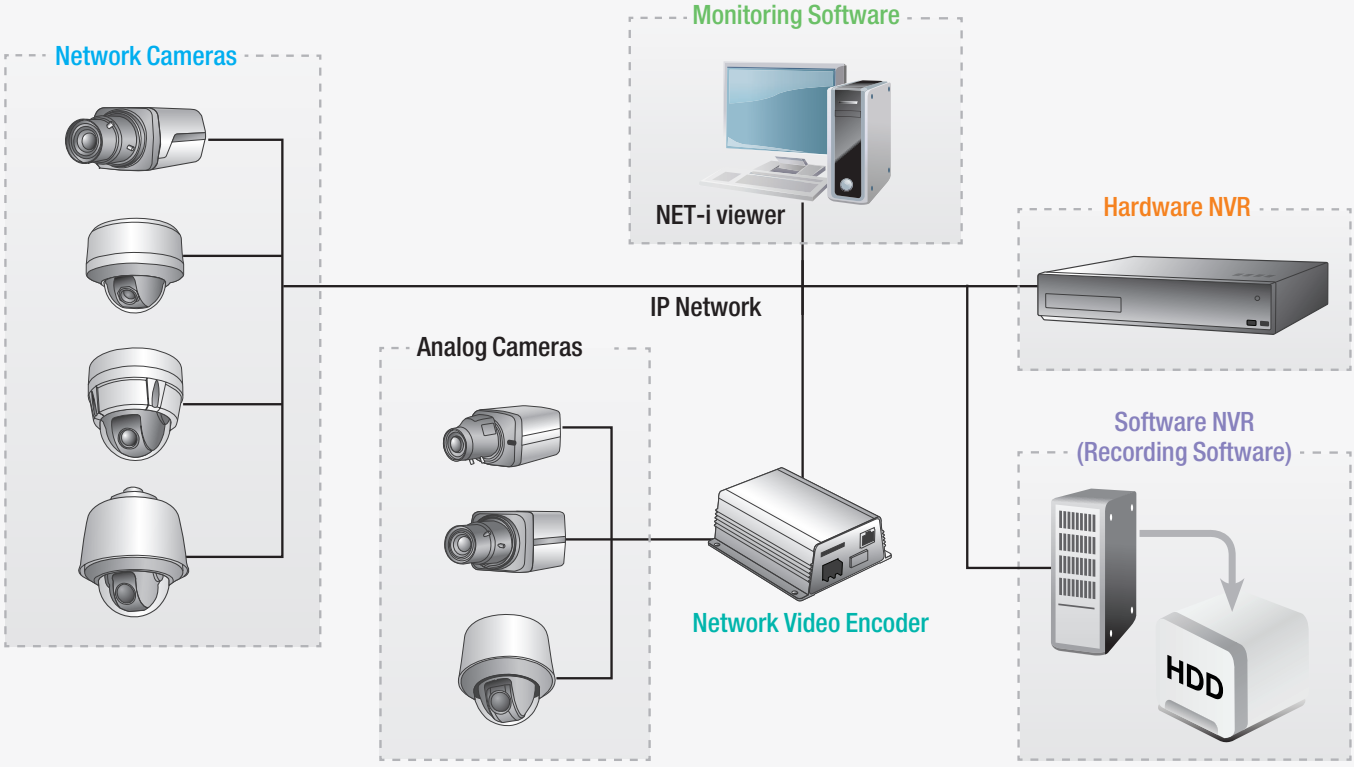
Samsung Total Security Solutions



Network Solutions

iPOLiS at a Glance

Samsung provides one-stop IP video surveillance solution ; Network Camera, Encoder, NVR, Monitoring Software, Hardware NVR, and Software NVR (Recording Software). Based on its cutting edge technology earned from long history in video surveillance industry, iPOLiS supports users with convenient & easy management and outstanding functions.



Network Cameras

Network cameras communicate with monitoring/recording tools via IP network. Samsung is expanding its line ups for network cameras, based on its excellent technological background. Various types of network cameras which are equipped with useful functions such as analytics, privacy masking, and an analog video output.

Hardware NVR

Unlike DVR that digitize the Analog video feeds, NVR receive digitized video images from IP network. While the DVR has to be located near the Analog feeds, the NVR can be located anywhere on a network and users can simply access the recorded video from anywhere on the network.

Network Video Encoder

Migrating to IP with Samsung doesn't require replacement of your existing cameras. We offer encoders which will convert your analog video to IP, making them compatible with an IP network video system.

Software NVR (Recording Software)

NET-i ware, network recording software of Samsung, provides video streaming, recording and event management functions. Users can record video continuously, on schedule, on alarm and/or on motion detection.

Monitoring Software

A common PC can be used as a monitoring device by installing NET-i, Samsung network monitoring software. The Net-I software package provides an easy to use Graphical User Interface.

Network Selection

	SNB-7000	SNB-5000	SNB-3000	SNB-2000	SNB-1000
					
Image Sensor	1/2.8" 3M PS CMOS	1/3" 1.3M PS CMOS	1/3" Super HAD PS CCD	1/3" Super HAD PS CCD	1/4" PS CMOS
Min. Illumination	Color : 1Lux (50 IRE) B/W : 0.08Lux (50 IRE)	Color : 0.3Lux (50 IRE) B/W : 0.01Lux (50 IRE)	Color : 0.4Lux (50 IRE) B/W : 0.04Lux (50 IRE)	Color : 0.4Lux (50 IRE) B/W : 0.4Lux (50 IRE)	Color : 1.4Lux (50 IRE)
Day & Night	Yes (IR cut filter)	Yes (IR cut filter)	Yes (IR cut filter)	Yes (Software)	N/A
Wide Dynamic Range	Yes (* 2M mode only)	N/A	Yes	N/A	N/A
Analog Out	CVBS 1.0Vp-p	CVBS 1.0Vp-p	CVBS 1.0Vp-p	CVBS 1.0Vp-p	N/A
Focal Length	N/A	N/A	N/A	N/A	N/A
Zoom Ratio	N/A	N/A	N/A	N/A	N/A
Video Compression	H.264, MJPEG	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG
Streaming	Multiple streaming	Multiple streaming	Dual streaming	Dual streaming	Multiple streaming
Max. Resolution	2048 x 1536	1280 x 1024	NTSC : 704 x 480, PAL : 704 x 576	NTSC : 704 x 480, PAL : 704 x 576	640 x 480
Max. Frame Rate	20fps at 3M	30fps at HD (720p)	NTSC : 30fps, PAL : 25fps	NTSC : 30fps, PAL : 25fps	NTSC : 30fps, PAL : 25fps
Audio I/O	Mic / Line in, Line out (Bi-directional audio)	Mic / Line in, Line out (Bi-directional audio)	Mic / Line in, Line out (Bi-directional audio)	N/A	N/A
Audio Compression	G.711 u-law	G.711 u-law	G.711 u-law	N/A	N/A
Memory Slot	Yes (SD/SDHC)	Yes (SD/SDHC)	Yes (SD/SDHC)	N/A	N/A
Alarm I/O	1 / 1	1 / 1	2 / 2	2 / 2	1 / 1
Intelligent Video Analytics	N/A	Yes	Yes	N/A	N/A
Network Protocol	IPv4/IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF	IPv4/IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF	IPv4/IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF	IPv4/IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF	IPv4/IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF
Security	HTTPS(SSL) login authentication, Digest login authentication, IP address filtering, User access log, 802.1x authentication	HTTPS(SSL) login authentication, Digest login authentication, IP address filtering, User access log	HTTPS(SSL) login authentication, Digest login authentication, IP address filtering, User access log	HTTPS(SSL) login authentication, Digest login authentication, User access log	HTTPS(SSL) login authentication, Digest login authentication, IP address filtering, User access log, 802.1x authentication
Operating Temperature	-10˚C ~ +50˚C (+14°F ~ +122°F)	-10˚C ~ +50˚C (+14°F ~ +122°F)	-10˚C ~ +50˚C (+14°F ~ +122°F)	-10˚C ~ +50˚C (+14°F ~ +122°F)	0˚C ~ +50˚C (+32°F ~ +122°F)
Operating Humidity	20% ~ 80% RH	20% ~ 80% RH	20% ~ 80% RH	20% ~ 80% RH	20% ~ 80% RH
Power Requirement	24V AC,12V DC, PoE (IEEE802.3af)	24V AC,12V DC, PoE (IEEE802.3af)	24V AC,12V DC, PoE (IEEE802.3af)	24V AC,12V DC, PoE (IEEE802.3af)	12V DC, PoE (IEEE802.3af)

	SNZ-5200	SNO-5080R	SND-7080/7080F	SND-5080/5080F	SND-3080C/3080CF
					
Image Sensor	1/3" 1.3M PS CMOS	1/3" 1.3M PS CMOS	1/2.8" 3M PS CMOS	1/3" 1.3M PS CMOS	1/3" Super HAD PS CCD
Min. Illumination	Color : 0.7Lux (50 IRE) B/W : 0.08Lux (50 IRE)	Color : 0.3Lux (50 IRE) B/W : 0Lux (50 IRE, IR LED on)	Color : 1Lux (50 IRE) B/W : 0.08Lux (50 IRE)	Color : 0.3Lux (50 IRE) B/W : 0.01Lux (50 IRE)	Color : 0.4Lux (50 IRE) B/W : 0.4Lux (50 IRE)
Day & Night	Yes (IR cut filter)	Yes (IR cut filter)	Yes (IR cut filter)	Yes (IR cut filter)	Yes (Software)
Wide Dynamic Range	N/A	N/A	Yes (* 2M mode only)	N/A	Yes
Analog Out	CVBS 1.0Vp-p	DIP connector type	CVBS 1.0Vp-p	CVBS 1.0Vp-p	CVBS 1.0Vp-p
Focal Length	4.45 ~ 89mm	2.8 ~ 10mm	3 ~ 8.5mm (Motorized V/F lens)	2.8 ~ 10mm	2.8 ~ 11mm
Zoom Ratio	20x	3.6x	2.8x	3.6x	3.9x
Video Compression	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG	H.264, MJPEG	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG
Streaming	Multiple streaming	Multiple streaming	Multiple streaming	Multiple streaming	Dual streaming
Max. Resolution	1280 x 1024	1280 x 1024	2048 x 1536	1280 x 1024	NTSC : 704 x 480, PAL : 704 x 576
Max. Frame Rate	30fps at all resolutions	30fps at HD (720p)	20fps at 3M	30fps at HD (720p)	NTSC : 30fps, PAL : 25fps
Audio I/O	Mic / Line in, Line out (Bi-directional audio)	N/A	Mic / Line in, Line out (Bi-directional audio)	Mic / Line in, Line out (Bi-directional audio)	N/A
Audio Compression	G. 711 u-law	N/A	G.711 u-law	G.711 u-law	N/A
Memory Slot	Yes (SD/SDHC)	N/A	Yes (SD/SDHC)	Yes (SD/SDHC)	Yes (SD/SDHC)
Alarm I/O	1 / 1	1 / 1	1 / 1	1 / 1	2 / 2
Intelligent Video Analytics	Yes	Yes	N/A	Yes	People counting
Network Protocol	IPv4/IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF	IPv4/IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF	IPv4/IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF	IPv4/IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF	IPv4/IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF
Security	HTTPS(SSL) login authentication, Digest login authentication, IP address filtering, User access log, 802.1x authentication	HTTPS(SSL) login authentication, Digest login authentication, IP address filtering, User access log	HTTPS(SSL) login authentication, Digest login authentication, IP address filtering, User access log, 802.1x authentication	HTTPS(SSL) login authentication, Digest login authentication, IP address filtering, User access log	HTTPS(SSL) login authentication, Digest login authentication, User access log
Protection	N/A	IP66 Grade, Vandal-resistant	N/A	N/A	N/A
Operating Temperature	-10˚C ~ +50˚C (+14°F ~ +122°F)	-10˚C ~ +50˚C (+14°F ~ +122°F)	-10˚C ~ +50˚C (+14°F ~ +122°F)	-10˚C ~ +50˚C (+14°F ~ +122°F)	-10˚C ~ +50˚C (+14°F ~ +122°F)
Operating Humidity	20% ~ 80% RH	Less than 90% RH (Waterproof)	20% ~ 80% RH	20% ~ 80% RH	20% ~ 80% RH
Power Requirement	12V DC, PoE (IEEE802.3af)	24V AC,12V DC, PoE (IEEE802.3af)	24V AC,12V DC, PoE (IEEE802.3af)	24V AC,12V DC, PoE (IEEE802.3af)	24V AC,12V DC, PoE (IEEE802.3af)

Network Product Selection

	SND-3080/3080F	SND-1010	SNV-7080	SNV-5080	SNV-5010
					
Image Sensor	1/3" Super HAD PS CCD	1/4" PS CMOS	1/2.8" 3M PS CMOS	1/3" 1.3M PS CMOS	1/3" 1.3M PS CMOS
Min. Illumination	Color : 0.4Lux (50 IRE) B/W : 0.4Lux (50 IRE)	Color : 1.4Lux (50 IRE)	Color : 1Lux (50 IRE) B/W : 0.08Lux (50 IRE)	Color : 0.3Lux (50 IRE) B/W : 0.01Lux (50 IRE)	Color : 1Lux (50 IRE)
Day & Night	Yes (Software)	N/A	Yes (IR cut filter)	Yes (IR cut filter)	N/A
Wide Dynamic Range	Yes	N/A	Yes (* 2M mode only)	N/A	N/A
Analog Out	CVBS 1.0Vp-p	N/A	CVBS 1.0Vp-p	CVBS 1.0Vp-p	DIP connector type
Focal Length	2.8 ~ 11mm	2.9mm	3 ~ 8.5mm (Motorized V/F lens)	2.8 ~ 10mm	3mm
Zoom Ratio	3.9x	N/A	2.8x	3.6x	N/A
Video Compression	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG	H.264, MJPEG	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG
Streaming	Dual streaming	Multiple streaming	Multiple streaming	Multiple streaming	Multiple streaming
Max. Resolution	NTSC : 704 x 480, PAL : 704 x 576	640 x 480	2048 x 1536	1280 x 1024	1280 x 1024
Max. Frame Rate	NTSC : 30fps, PAL : 25fps	NTSC : 30fps, PAL : 25fps	20fps at 3M	30fps at HD (720p)	30fps at HD (720p)
Audio I/O	N/A	N/A	Mic / Line in, Line out (Bi-directional audio)	Mic / Line in, Line out (Bi-directional audio)	N/A
Audio Compression	N/A	N/A	G.711 u-law	G.711 u-law	N/A
Memory Slot	Yes (SD/SDHC)	N/A	Yes (SD/SDHC)	Yes (SD/SDHC)	N/A
Alarm I/O	2 / 2	1 / 1	1 / 1	1 / 1	N/A
Intelligent Video Analytics	N/A	N/A	N/A	Yes	Yes
Network Protocol	IPv4/IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF	IPv4/IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF	IPv4/IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF	IPv4/IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF	IPv4/IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF
Security	HTTPS(SSL) login authentication, Digest login authentication, User access log	HTTPS(SSL) login authentication, Digest login authentication, IP address filtering, User access log, 802.1x authentication	HTTPS(SSL) login authentication, Digest login authentication, IP address filtering, User access log, 802.1x authentication	HTTPS(SSL) login authentication, Digest login authentication, IP address filtering, User access log	HTTPS(SSL) login authentication, Digest login authentication, IP address filtering, User access log
Protection	N/A	N/A	IP66 Grade, Vandal-resistant	IP66 Grade, Vandal-resistant	IP66 Grade, Vandal-resistant
Operating Temperature	-10˚C ~ +50˚C (+14°F ~ +122°F)	0˚C ~ +50˚C (+32°F ~ +122°F)	-40˚C ~ +50˚C (-40°F ~ +122°F)	-40˚C ~ +50˚C (-40°F ~ +122°F)	-10˚C ~ +50˚C (+14°F ~ +122°F)
Operating Humidity	20% ~ 80% RH	20% ~ 80% RH	Less than 90% RH (Waterproof)	Less than 90% RH (Waterproof)	Less than 90% RH (Waterproof)
Power Requirement	24V AC,12V DC, PoE (IEEE802.3af)	12V DC, PoE (IEEE802.3af)	24V AC,12V DC, PoE (IEEE802.3af)	24V AC,12V DC, PoE (IEEE802.3af)	12V DC, PoE (IEEE802.3af)

	SNV-3120	SNV-3080	SNP-5200	SNP-5200H	SNP-3430H
					
Image Sensor	1/4" Ex-view HAD PS CCD	1/3" Super HAD PS CCD	1/3" 1.3M PS CMOS	1/3" 1.3M PS CMOS	1/4" Ex-view HAD PS CCD
Min. Illumination	Color : 0.7Lux (50 IRE) B/W : 0.07Lux (50 IRE)	Color : 0.4Lux (50 IRE) B/W : 0.04Lux (50 IRE)	Color : 0.7Lux (50 IRE) B/W : 0.08Lux (50 IRE)	Color : 0.7Lux (50 IRE) B/W : 0.08Lux (50 IRE)	Color : 0.7Lux (50 IRE) B/W : 0.07Lux (50 IRE)
Day & Night	Yes (IR cut filter)	Yes (IR cut filter)	Yes (IR cut filter)	Yes (IR cut filter)	Yes (IR cut filter)
Wide Dynamic Range	Yes	Yes	N/A	N/A	Yes
Analog Out	CVBS 1.0Vp-p	CVBS 1.0Vp-p	CVBS 1.0Vp-p	CVBS 1.0Vp-p	CVBS 1.0Vp-p
Focal Length	3.69 ~ 44.32mm	2.8 ~ 11mm	4.45 ~ 89mm	4.45 ~ 89mm	3.2 ~ 138.5mm
Zoom Ratio	12x	3.9x	20x	20x	43x
Video Compression	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG
Streaming	Multiple streaming	Dual streaming	Multiple streaming	Multiple streaming	Multiple streaming
Max. Resolution	NTSC : 704 x 480, PAL : 704 x 576	NTSC : 704 x 480, PAL : 704 x 576	1280 x 1024	1280 x 1024	NTSC : 704 x 480, PAL : 704 x 576
Max. Frame Rate	NTSC : 30fps, PAL : 25fps	NTSC : 30fps, PAL : 25fps	30fps at all resolutions	30fps at all resolutions	NTSC : 30fps, PAL : 25fps
Audio I/O	Mic / Line in, Line out (Bi-directional audio)	Mic / Line in, Line out (Bi-directional audio)	Mic / Line in, Line out (Bi-directional audio)	Mic / Line in, Line out (Bi-directional audio)	Mic / Line in, Line out (Bi-directional audio)
Audio Compression	G.711 u-law	G.711 u-law	G.711 u-law	G.711 u-law	G.711 u-law
Memory Slot	Yes (SD/SDHC)	Yes (SD/SDHC)	Yes (SD/SDHC)	Yes (SD/SDHC)	Yes (SD/SDHC)
Alarm I/O	1 / 1	2 / 2	4 / 2	4 / 2	8 / 4
Intelligent Video Analytics	Yes	Yes	Yes	Yes	Yes
Network Protocol	IPv4/IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF	IPv4/IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF	IPv4/IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF	IPv4/IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF	IPv4/IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF
Security	HTTPS(SSL) login authentication, Digest login authentication, IP address filtering, User access log	HTTPS(SSL) login authentication, Digest login authentication, IP address filtering, User access log	HTTPS(SSL) login authentication, Digest login authentication, IP address filtering, User access log, 802.1x authentication	HTTPS(SSL) login authentication, Digest login authentication, IP address filtering, User access log, 802.1x authentication	HTTPS(SSL) login authentication, Digest login authentication, IP address filtering, User access log, 802.1x authentication
Protection	IP66 Grade, Vandal-resistant	IP66 Grade, Vandal-resistant	N/A	IP66 Grade	IP66 Grade
Operating Temperature	-40˚C ~ +50˚C (-40°F ~ +122°F)	-40˚C ~ +50˚C (-40°F ~ +122°F)	-10˚C ~ +50˚C (+14°F ~ +122°F)	-50˚C ~ +50˚C (-58°F ~ +122°F)	-50˚C ~ +50˚C (-58°F ~ +122°F)
Operating Humidity	Less than 90% RH (Waterproof)	Less than 90% RH (Waterproof)	20% ~ 80% RH	Less than 90% RH (Waterproof)	Less than 90% RH (Waterproof)
Power Requirement	24V AC,12V DC, PoE (IEEE802.3af)	24V AC,12V DC, PoE (IEEE802.3af)	24V AC, PoE+ (IEEE802.3at)	24V AC, PoE+ (IEEE802.3at)	24V AC, PoE+ (IEEE802.3at)

Network Product Selection

	SNP-3370TH/3301H	SNP-3370/3301	SNP-3120	SNP-3120V	SNP-3120VH
					
Image Sensor	1/4" Vertical double density interline CCD	1/4" Vertical double density interline CCD	1/4" Ex-view HAD PS CCD	1/4" Ex-view HAD PS CCD	1/4" Ex-view HAD PS CCD
Min. Illumination	Color : 0.7Lux (50 IRE) B/W : 0.03Lux (50 IRE)	Color : 0.7Lux (50 IRE) B/W : 0.03Lux (50 IRE)	Color : 0.7Lux (50 IRE) B/W : 0.07Lux (50 IRE)	Color : 0.7Lux (50 IRE) B/W : 0.07Lux (50 IRE)	Color : 0.7Lux (50 IRE) B/W : 0.07Lux (50 IRE)
Day & Night	Yes (IR cut filter)	Yes (IR cut filter)	Yes (IR cut filter)	Yes (IR cut filter)	Yes (IR cut filter)
Wide Dynamic Range	Yes	Yes	Yes	Yes	Yes
Analog Out	CVBS 1.0Vp-p	CVBS 1.0Vp-p	CVBS 1.0Vp-p	CVBS 1.0Vp-p	CVBS 1.0Vp-p
Focal Length	SNP-3370TH : 3.5 ~ 129.5mm / SNP-3301H : 3.5 ~ 105mm	SNP-3370 : 3.5 ~ 129.5mm / SNP-3301 : 3.5 ~ 105mm	3.69 ~ 44.32mm	3.69 ~ 44.32mm	3.69 ~ 44.32mm
Zoom Ratio	SNP-3370TH : 37x / SNP-3301H : 30x	SNP-3370 : 37x / SNP-3301 : 30x	12x	12x	12x
Video Compression	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG
Streaming	Multiple streaming	Multiple streaming	Multiple streaming	Multiple streaming	Multiple streaming
Max. Resolution	NTSC : 704 x 480, PAL : 704 x 576	NTSC : 704 x 480, PAL : 704 x 576	NTSC : 704 x 480, PAL : 704 x 576	NTSC : 704 x 480, PAL : 704 x 576	NTSC : 704 x 480, PAL : 704 x 576
Max. Frame Rate	NTSC : 30fps, PAL : 25fps	NTSC : 30fps, PAL : 25fps	NTSC : 30fps, PAL : 25fps	NTSC : 30fps, PAL : 25fps	NTSC : 30fps, PAL : 25fps
Audio I/O	Mic / Line in, Line out (Bi-directional audio)	Mic / Line in, Line out (Bi-directional audio)	Mic / Line in, Line out (Bi-directional audio)	Mic / Line in, Line out (Bi-directional audio)	Mic / Line in, Line out (Bi-directional audio)
Audio Compression	ADPCM	ADPCM	G.711 u-law	G.711 u-law	G.711 u-law
Memory Slot	Yes (SD/SDHC)	Yes (SD/SDHC)	Yes (SD/SDHC)	Yes (SD/SDHC)	Yes (SD/SDHC)
Alarm I/O	4 / 2	4 / 2	2 / 2	2 / 2	2 / 2
Intelligent Video Analytics	Auto tracking (SNP-3370TH)	Yes	Yes	Yes	Yes
Network Protocol	IPv4, TCP/IP, UDP/IP, RTP, RTSP, TP, HTTP, DHCP, FTP, SMTP, ICMP, IGMP, ARP, DNS, DDNS	IPv4, TCP/IP, UDP/IP, RTP, RTSP, TP, HTTP, DHCP, FTP, SMTP, ICMP, IGMP, ARP, DNS, DDNS	IPv4/IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF	IPv4/IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF	IPv4/IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF
Security	Password protection, IP address filtering, User access log	Password protection, IP address filtering, User access log	HTTPS(SSL) login authentication, Digest login authentication, IP address filtering, User access log	HTTPS(SSL) login authentication, Digest login authentication, IP address filtering, User access log	HTTPS(SSL) login authentication, Digest login authentication, IP address filtering, User access log
Protection	IP66 Grade	N/A	N/A	IP66 Grade	IP66 Grade
Operating Temperature	-50˚C ~ +50˚C (-58°F ~ +122°F)	-10˚C ~ +50˚C (+14°F ~ +122°F)	-10˚C ~ +50˚C (+14°F ~ +122°F)	-50˚C ~ +50˚C (-58°F ~ +122°F)	-50˚C ~ +50˚C (-58°F ~ +122°F)
Operating Humidity	Less than 90% RH (Waterproof)	20% ~ 80% RH	20% ~ 80% RH	Less than 90% RH (Waterproof)	Less than 90% RH(Waterproof)
Power Requirement	24V AC	24V AC	24V AC, PoE+ (IEEE802.3at)	24V AC, PoE+ (IEEE802.3at)	24V AC, PoE+ (IEEE802.3at)

	Network Video Recorder			Network Video Encoder / Extension Rack
	SRN-6450/3250	SRN-1670D	SRN-470D	SPE-400B/1600R
				
Features	- H.264, MPEG-4, MJPEG multiple codec - CIF high resolution images at 1920fps(N), 1600fps(P) in real-time (SRN-6450) CIF high resolution images at 960fps(N), 800fps(P) in real-time (SRN-3250) - Up to 20TB using external storage option	- H.264, MJPEG dual codec - 4CIF high resolution images at 480fps(N), 400fps(P) in real-time - DVD writer support - HDMI output	- H.264, MJPEG dual codec - 4CIF high resolution images at 120fps(N), 100fps(P) in real-time - DVD writer support - HDMI output	- Max. 30(25)fps at 4CIF resolution - H.264, MPEG-4, MJPEG multiple codec - Multiple streaming simultaneously - 10/100/1000BASE-T - SPE-1600R : extension rack, 4 slots for SPE-400B

	Network Video Encoder		Central Management Software	Recording Software	DVR Management Software
	SPE-400	SPE-100	NET-i viewer	NET-i ware	SmartViewer
					
Features	- Max. 30(25)fps at 4CIF resolution - H.264, MPEG-4, MJPEG multiple codec - Multiple streaming simultaneously - 10/100/1000BASE-T - SD memory, Bi-directional audio support	- Max. 30(25)fps at 4CIF resolution - H.264, MPEG-4, MJPEG multiple codec - Multiple streaming simultaneously - 10/100BASE-T - PoE, SD memory, Bi-directional audio support	- Up to 64 channels simultaneous real-time live monitoring in single PC - Supports various video format (H.264, MPEG-4, MJPEG) - Supports various video resolution (Megapixel, 4CIF, Half D1, VGA, CIF) - Supports various search and playback options	- Up to 64 Network cameras recording - Support various video format recording (H.264, MPEG-4, MJPEG) - Various video resolution recording (Megapixel, 4CIF, Half D1, VGA, CIF) - Up to 480fps(N), 400fps(P) recording at 4CIF resolution	- Monitoring maximum of 36 videos from connected cameras - Play up to 16 videos simultaneously - Support full screen mode - Support range back up (integrated viewer)

Network Terms & Features

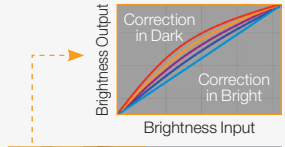
HD (High Definition) Surveillance

HD surveillance cameras provide much greater picture detail than standard definition cameras.



SSDR (Samsung Super Dynamic Range)

Samsung's network cameras all include SSDR technology. Contrasting light causes areas of the image to appear invisible to the operator; SSDR technology increases the level of visible detail in these dark areas, while maintaining image clarity and detail in the brighter areas to produce a much more balanced image.

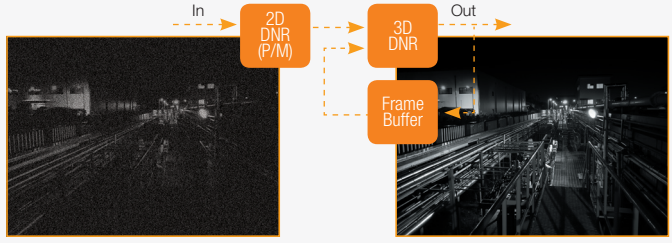






SSNRIII (Samsung Super Noise ReductionIII)

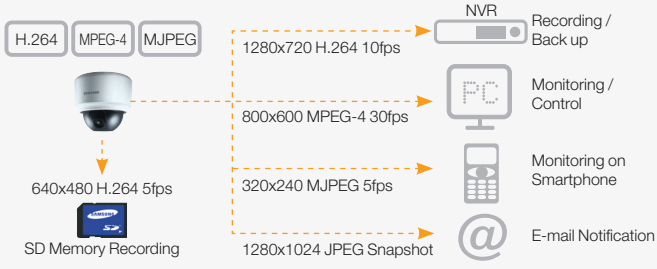
The third generation SSNRIII technology utilizes both an adaptive 2D filter that reduces the noise that can be found in low light images and an adaptive 3D filter which reduces noise caused by movement. The resulting image created by Samsung network camera is sharper (reduced blur) and clearer (reduced noise) when viewing in low light condition.



SSNRIII Off SSNRIII On

Multiple Codec & Streaming Performance

Samsung network cameras support simultaneously streaming of multiple video compression technologies such as H.264, MPEG-4 and MJPEG. This facilitates multiple purposes monitoring such as real-time, high-quality or high-efficiency recording, mobile monitoring, E-mail notification and SD memory recording.



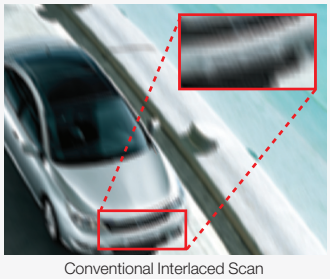
* Some camera models support dual streaming.

Smart Codec - ROI (Regions of Interest)

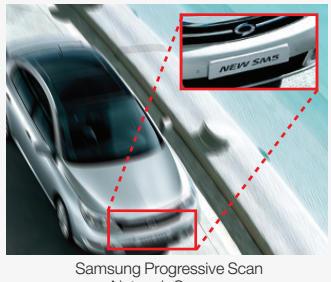
In the majority of scenes viewed by a surveillance camera only a proportion of the image is of interest to the operator. With the continued increase in resolution and therefore data sizes there is an increased amount of "Wasted Data" created. Samsung's use of smart codec technology in their network cameras allow them to be programmed to capture in greater detail the real ROI, such as moving objects, human faces, doors or windows than the remaining of the scene. This smart codec feature produces lower data sizes while clearly highlighting the ROI.

Progressive Scan

Samsung network camera's progressive scan feature enables images of moving objects to be clearly and noiselessly captured allowing detail to be plainly seen.



Conventional Interlaced Scan Network Camera



Samsung Progressive Scan Network Camera



Normal Compressed Image (Higher Data Size)



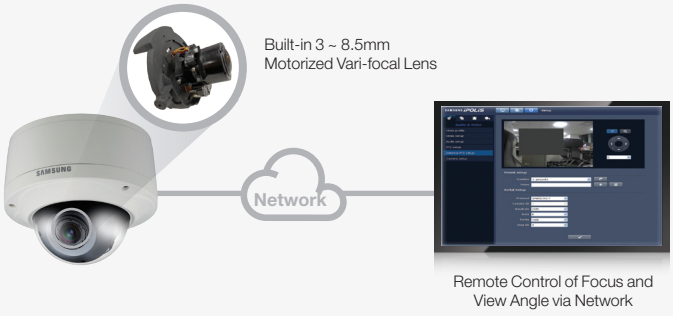
Smart Compressed Image (Effectively Saved Data Size)

* Smart codec feature is supported at 3M Full HD cameras only.

Network Terms & Features

Remote Focus Control

Samsung has incorporated motorized vari-focal lens in their network dome cameras. Users can adjust the focus and view angle of camera very easily through the network from a remote site without having to visit the installation and open the camera's housing.



* Motorized lens is built-in at 3M Full HD dome cameras only.

Powerful 20x HD Optical Zoom

Samsung HD zoom network cameras provide a powerful 20x HD optical zoom performance, so that user can view the scene in much greater clarity. While in playback the digital zoom will reveal still more detail when compared with a conventional SD zoom.



Built-in Intelligent Video Analytics

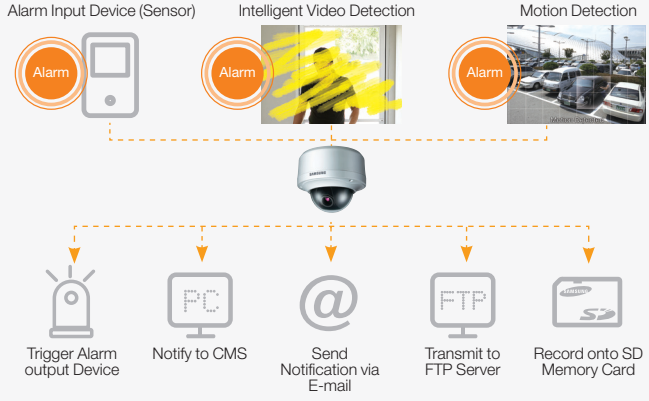




* Some network cameras support motion detection only.

Alarm Event Control

Various alarm sources including alarm input ports, motion detection, intelligent video detection can make the camera trigger alarm outputs, transmit and/or record Pre/Post images to a FTP server or onto the SD memory card. Alarm notification with images can also be sent via E-mail.



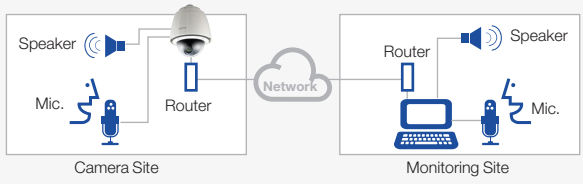
ONVIF (Open Network Video Interface Forum) Conformance

Samsung is the full member of ONVIF and Samsung network camera is conforming to and following the ONVIF specification.

ONVIF
Driving network video through global standardization

Bi-directional Audio Communication

Full duplex bi-directional audio allows interactive communication between camera site and monitoring site.



SD Memory Card Slot

Samsung network cameras have a built-in SD/SDHC memory card slot which makes it possible to store important video without any external equipment when an event condition occurs.



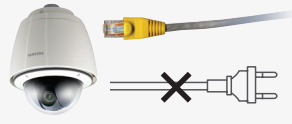
Analog Video Output for Easy Installation

Samsung network camera provides Analog video out port enabling Analog monitor device connection for easy installation.



PoE (Power over Ethernet)

PoE feature offers an easy, fast and cost-effective solution for supplying power to Samsung network cameras without the need to install power outlets and electrical cabling.

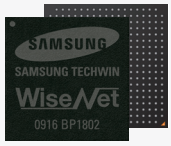


(Some network PTZ cameras support PoE+ standard for higher power supplying.)

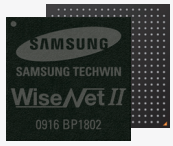
Core Technologies

WiseNet | WiseNet II

WiseNet Advanced DSP series



WiseNet (Up to 1.3M)



WiseNetII (Up to 3M)

Max. 3Megapixel Resolution (WiseNetII)

Samsung WiseNetII network cameras provide max. 3Megapixel (2048 x 1536) resolutions. Higher resolution images allow to catch details clear so that the application place such as banks where need high surveillance may need network cameras supports megapixel resolution. (WiseNet network camera line-up supports max. 1.3Megapixel pixel resolutions.)


Conventional Network Camera


WiseNetII Network Camera

16 : 9 HD (720p) Full HD (1080p)

Samsung WiseNetII network cameras provide 16 : 9 HD and Full HD resolutions based on HDTV standard.


16 : 9 HD (720p)

Full HD (1080p)

WDR (Wide Dynamic Range)

The WiseNetII DSP's WDR technology compensates for backlight problems effectively, by applying an optimum fusion ratio when combining the long exposure method used in bright areas and the short exposure method used in dark areas. It carries out a precise analysis on the picture to get detailed information from the dark areas without any saturation from the bright areas. (WDR function is supported in 2M mode only)


WDR Off


WDR On

SSDR (Samsung Super Dynamic Range)

Samsung WiseNet series network cameras provide SSDR technology to increase the level of visible detail in the dark areas, while maintaining image clarity and detail in the brighter portions of the image.


SSDR Off


SSDR On

SSNRIII (Samsung Super Noise ReductionIII)

The third generation SSNR technology utilizes both an adaptive 2D filter reducing noise in the brightness of the image and an adaptive 3D filter reducing noise caused by movement. The result is that Samsung WiseNet series Network Cameras remove noise and greatly reduce motion blur in low light.

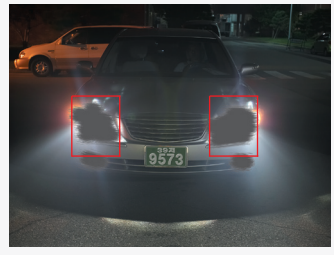

SSNRIII Off


SSNRIII On

HLC (Highlight Compensation)

HLC function is Samsung's unique BLC technology that detects if any strong spots of light exist and compensates for the area as needed to produce clearer images. Spotlight BLC is especially effective for reading the number-plates of cars in streets or parking lots at night.


HLC Off



HLC On

SNB-7000

3Megapixel Full HD Network Camera



Lens not included

3M | WDR 128x 160x | D&N ICR | PoE

Key Features

- Max. 3M (2048 x 1536) resolution
- 16 : 9 Full HD (1080p) resolution support
- H.264, MJPEG dual codec
- WDR (supported in 2M mode only)
- Smart codec (ROI encoding)

Available Lenses / Accessories (optional):


SLA-M3180


SHB-4300H1


SHB-4200/SHB-4200H


STB-400

USE WITH


STH-500

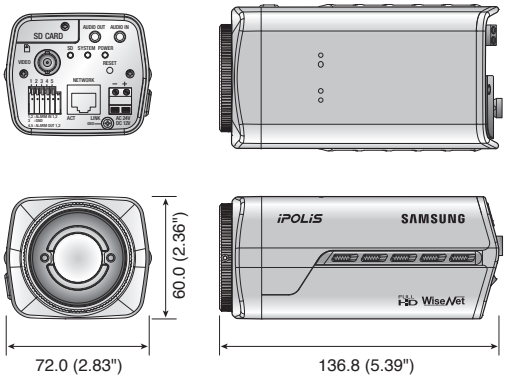
OR


STH-200


STB-4150V

Dimensions

Unit : mm (inch)



Technical Specifications

ONVIF

	SNB-7000N/P
VIDEO	
Imaging Device	1/2.8" 3M PS CMOS
Total Pixels	2,144(H) x 1,588(V)
Effective Pixels	2,096(H) x 1,561(V)
Scanning System	Progressive
Min. Illumination (TBD)	Color : 1Lux (F1.2, 50IRE), 0.017Lux (Sens-up 60x) B/W : 0.08Lux (F1.2, 50IRE), 0.001Lux (Sens-up 60x)
S / N Ratio	50dB
Video Output	CVBS : 1.0 Vp-p / 75Ω composite, 704 x 480(N), 704 x 576(P), for installation
LENS	
Lens Type	Manual / DC auto iris
Mount Type	C / CS
OPERATIONAL	
Camera Title	Off / On (Displayed up to 15 characters)
Day & Night	Auto (ICR) / Color / B/W / External B/W
Backlight Compensation	Off / BLC / HLC / WDR
Wide Dynamic Range	(*2M mode only), 52dB
Contrast Enhancement	SSDR (Samsung Super Dynamic Range) (Off / On)
Digital Noise Reduction	SSNRIII (2D+3D noise filter) (Off / On)
Motion Detection	Off / On (4 programmable zones)
Privacy Masking	Off / On (1ea 4 point polygonal + 16ea rectangular zones)
Sens-up (Frame Integration)	Off / Auto (2x ~ 60x)
Gain Control	Off / Low / Medium / High
White Balance	ATW / AWC / Manual / Indoor / Outdoor
Electronic Shutter Speed	Auto / A.FLK / Manual (1/30 ~ 30,000sec)
Flip / Mirror	Off / On
Alarm I/O	Input 1ea / Output 1ea (Relay)
Remote Control Interface	RS-485
RS-485 Protocol	Samsung-T/E, Pelco-P/D, Sungjin
NETWORK	
Ethernet	RJ-45 (10/100BASE-T)
Video Compression Format	H.264, MJPEG
Resolution	3M mode - H.264 : Max. 20fps at all resolutions MJPEG : 800 x 600 ~ 320 x 180 - 20fps 1280 x 1024 ~1600 x 1200 - 15fps 1920 x 1080 ~ 2048 x 1536 - 10fps 2M mode - H.264 : Max. 30fps at all resolutions (When WDR on, Max. framerate is Max. 15fps.) MJPEG : 800 x 600 ~ 320 x 180 - 30fps 1280 x 1024 ~ 1920 x 1080 : 15fps
Max. Framerate	3M mode : Max. 20fps, 2M mode : Max. 30fps * When WDR on, Max. framerate is Max. 15fps
Smart Codec	Yes (Area based method, Face detection method)
Video Quality Adjustment	H.264 : Compression level, Target bitrate level control MJPEG : Quality level control
Bitrate Control Method	H.264 : CBR or VBR, MJPEG : VBR
Streaming Capability	Multiple streaming (Up to 6 profiles)
Audio I/O	Mic / Line in, Line out
Audio Compression Format	G.711 u-law
Audio Communication	Bi-directional audio
IP	IPv4, IPv6
Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, PPPoE FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF
Security	HTTPS(SSL) login authentication, Digest login authentication IP address filtering, User access log, 802.1x authentication
Streaming Method	Unicast / Multicast
Max. User Access	10 users at unicast mode
Memory Slot	SD/SDHC memory slot
ONVIF Conformance	Yes
Webpage Language	English, French, German, Spanish, Italian, Chinese, Korean, Russian, Japanese, Swedish, Danish, Portuguese, Turkish, Polish, Czech, Rumanian, Serbian, Dutch, Croatian, Hungarian, Greek
Web Viewer	Supported OS : Windows XP / VISTA / 7, MAC OS Supported Browser : Internet Explorer 7.0 or Higher, Firefox, Google Chrome, Apple Safari
Central Management Software	NET-i viewer
ENVIRONMENTAL	
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / 20% ~ 80% RH
ELECTRICAL	
Input Voltage	12V DC, 24V AC, PoE (IEEE802.3af)
Power Consumption	Max. 7W
MECHANICAL	
Color / Material	Dark gray / Metal
Dimensions (WxHxD)	72.0 x 60.0 x 136.8mm (2.83" x 2.36" x 5.39")
Weight	440g (0.97 lb)

SNB-5000

1.3Megapixel HD Network Camera



Lens not included

1.3M | SSDR | D&N ICR | PoE

Key Features

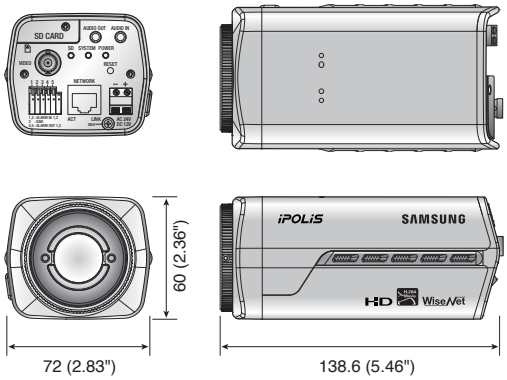
- Max. 1.3M (1280 x 1024) resolution
- 16 : 9 HD (720p) resolution support
- H.264, MPEG-4, MJPEG multiple codec
- PoE, SD memory, bi-directional audio support

Available Lenses / Accessories (optional):



Dimensions

Unit : mm (inch)



Technical Specifications

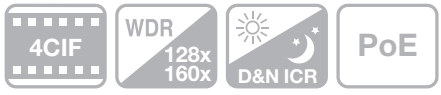
	SNB-5000N/P
VIDEO	
Imaging Device	1/3" 1.3M PS CMOS
Total Pixels	1,384(H) x 1,076(V)
Effective Pixels	1,329(H) x 1,049(V)
Scanning System	Progressive
Min. Illumination	Color : 0.3Lux (F1.2, 50IRE), 0.005Lux (Sens-up 60x) B/W : 0.01Lux (F1.2, 50IRE), 0.0002Lux (Sens-up 60x)
S / N Ratio	50dB
Video Output	CVBS : 1.0 Vp-p / 75Ω composite, 704 x 480(N), 704 x 576(P), for installation
LENS	
Lens Type	Manual / DC auto iris
Mount Type	C / CS
OPERATIONAL	
Camera Title	Off / On (Displayed up to 15 characters)
Day & Night	Auto (ICR) / Color / B/W
Backlight Compensation	Off / BLC / HLC
Contrast Enhancement	SSDR (Samsung Super Dynamic Range) (Off / On)
Digital Noise Reduction	SSNRIII (2D+3D noise filter) (Off / On)
Motion Detection	Off / On (4 programmable zones)
Privacy Masking	Off / On (12 programmable zones)
Sens-up (Frame Integration)	Off / Auto (2x ~ 60x)
Gain Control	Off / Low / Medium / High / Manual
White Balance	ATW / AWC / Manual / Indoor / Outdoor
Electronic Shutter Speed	Auto / A.FLK / Manual (1/30 ~ 30,000sec)
Flip / Mirror	Off / On
Intelligent Video Analytics	Scene change, Virtual line, Enter / Exit, Appear / Disappear
Alarm I/O	Input 1ea / Output 1ea (Relay)
NETWORK	
Ethernet	RJ-45 (10/100BASE-T)
Video Compression Format	H.264, MPEG-4, MJPEG
Resolution	1280 x 1024, 1280 x 720P (HD), 800 x 600, 640 x 480, 320 x 240
Max. Framerate	22fps (1280 x 1024), 30fps (720P HD)
Video Quality Adjustment	H.264, MPEG-4 : Compression level, Target bitrate level control MJPEG : Quality level control
Bitrate Control Method	H.264, MPEG-4 : CBR or VBR, MJPEG : VBR
Streaming Capability	Multiple streaming (Up to 10 profiles)
Audio I/O	Mic / Line in, Line out
Audio Compression Format	G.711 u-law
Audio Communication	Bi-directional audio
IP	IPv4, IPv6
Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, PPPoE FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF
Security	HTTPS(SSL) login authentication, Digest login authentication IP address filtering, User access log
Streaming Method	Unicast / Multicast
Max. User Access	10 users at unicast mode
Memory Slot	SD/SDHC memory slot
ONVIF Conformance	Yes
Webpage Language	English, French, German, Spanish, Italian, Chinese, Korean, Russian, Japanese, Swedish, Danish, Portuguese, Turkish, Polish, Czech, Rumanian, Serbian, Dutch, Croatian, Hungarian, Greek
Web Viewer	Supported OS : Windows XP / VISTA / 7, MAC OS Supported Browser : Internet Explorer 6.0 or Higher, Firefox, Google Chrome, Apple Safari
Central Management Software	NET-i viewer
ENVIRONMENTAL	
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / 20% ~ 80% RH
ELECTRICAL	
Input Voltage	12V DC, 24V AC, PoE (IEEE802.3af)
Power Consumption	Max. 6W
MECHANICAL	
Color / Material	Dark gray / Metal
Dimensions (WxHxD)	72.0 x 60.0 x 136.8mm (2.83" x 2.36" x 5.39")
Weight	440g (0.97 lb)

SNB-3000

4CIF WDR Network Camera



Lens not included



Key Features

- Max. 30(25)fps at 4CIF resolution
- H.264, MPEG-4, MJPEG multiple codec
- PoE, SD memory, bi-directional audio support

Available Lenses / Accessories (optional):



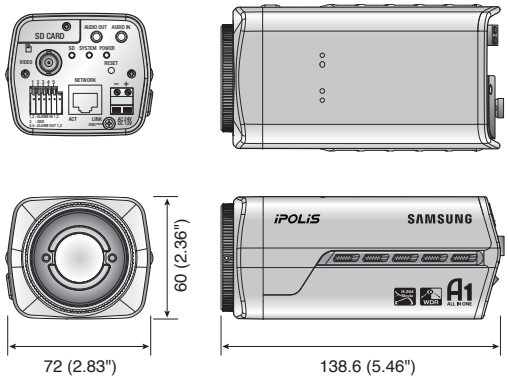
SLA-2810D SLA-2985D SLA-3580DN SLA-550DA SHB-4300H1 SHB-4200/SHB-4200H



STB-400 USE WITH STH-500 OR STH-200 STB-4150V

Dimensions

Unit : mm (inch)



Technical Specifications

	SNB-3000N	SNB-3000P
VIDEO		
Imaging Device	1/3" Super HAD PS CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	Progressive (If WDR on, Interlaced scan)	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 600TV lines	
Min. Illumination	Color : 0.4Lux (F1.2, 50IRE), 0.001Lux (Sens-up 512x) B/W : 0.04Lux (F1.2, 50IRE), 0.0001Lux (Sens-up 512x)	
S / N Ratio	52dB	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
LENS		
Lens Type	Manual / DC auto iris	
Mount Type	C / CS	
OPERATIONAL		
On Screen Display	English, French, Spanish, Portuguese, Japanese	English, French, German, Spanish, Italian, Chinese
Camera Title	Off / On (Displayed up to 54 characters)	
Day & Night	Auto / Day / Night (IR cut filter)	
Backlight Compensation	Off / BLC / WDR	
Wide Dynamic Range	128x, 52dB	160x, 52dB
Contrast Enhancement	XDR (eXtended Dynamic Range) - Off / Low / Middle / High	
Digital Noise Reduction	Motion adaptive 2D+3D noise filter (Off / Low / Middle / High / User)	
Digital Image Stabilization	Off / On	
Motion Detection	Off / On (4 programmable zones)	
Privacy Masking	Off / On (12 polygonal programmable zones, 4 point polygonal method)	
Sens-up (Frame Integration)	Off / Auto (2x ~ 512x)	
Gain Control	AGC (Low / Middle / High)	
White Balance	ATW1 / ATW2 / AWC / 3200K / 5600K	
Electronic Shutter Speed	Off / Auto (1/100 ~ 1/10Ksec)	Off / Auto (1/120 ~ 1/10Ksec)
Digital Zoom	16x	
Flip / Mirror	Off / On	
Profile	Standard / ITS / Backlight / Day & Night / Gaming / Custom	
Intelligent Video Analytics	Scene change, Virtual line, Enter / Exit, Appear / Disappear	
PIP	Off / On	
Alarm I/O	Input 2ea / Output 2ea (Relay)	
NETWORK		
Ethernet	RJ-45 (10/100BASE-T)	
Video Compression Format	H.264, MPEG-4, MJPEG	
Resolution	704 x 480, 640 x 480, 352 x 240	704 x 576, 640 x 480, 352 x 288
Max. Framerate	30fps	25fps
Video Quality Adjustment	H.264, MPEG-4 : Compression level, Target bitrate level control MJPEG : Quality level control	
Bitrate Control Method	H.264, MPEG-4 : CBR or VBR, MJPEG : VBR	
Streaming Capability	Dual streaming (MPEG-4 + MJPEG or H.264 + MJPEG)	
Audio I/O	Mic / Line in, Line out	
Audio Compression Format	G.711 u-law	
Audio Communication	Bi-directional audio	
IP	IPv4, IPv6	
Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, PPPoE FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF	
Security	HTTPS(SSL) login authentication, Digest login authentication IP address filtering, User access log	
Streaming Method	Unicast / Multicast	
Max. User Access	10 users at unicast mode	
Memory Slot	SD/SDHC memory slot	
ONVIF Conformance	Yes	
Webpage Language	English, French, German, Spanish, Italian, Chinese, Korean	
Web Viewer	Supported OS : Windows XP / VISTA / 7 Supported Browser : Internet Explorer 6.0 or Higher	
Central Management Software	NET-i viewer	
ENVIRONMENTAL		
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / 20% ~ 80% RH	
ELECTRICAL		
Input Voltage	12V DC, 24V AC, PoE (IEEE802.3af)	
Power Consumption	Max. 8W	
MECHANICAL		
Color / Material	Silver / Metal	
Dimensions (WxHxD)	72.0 x 60.0 x 136.8mm (2.83" x 2.36" x 5.39")	
Weight	300g (0.66 lb)	

SNB-2000

4CIF Network Camera



Lens not included

4CIF | XDR | E-D&N | PoE

Key Features

- Max. 30(25)fps at 4CIF resolution
- H.264, MPEG-4, MJPEG multiple codec
- PoE

Available Lenses / Accessories (optional):



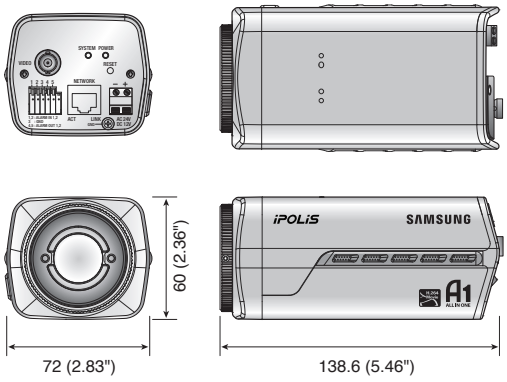
SLA-2810D SLA-2985D SLA-3580DN SLA-550DA SHB-4300H1 SHB-4200/SHB-4200H



STB-400 USE WITH STH-500 OR STH-200 STB-4150V

Dimensions

Unit : mm (inch)



Technical Specifications

	SNB-2000N	SNB-2000P
VIDEO		
Imaging Device	1/3" Super HAD PS CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	Progressive	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 600TV lines	
Min. Illumination	Color : 0.4Lux (F1.2, 50IRE), 0.001Lux (Sens-up 512x) B/W : 0.4Lux (F1.2, 50IRE), 0.001Lux (Sens-up 512x)	
S / N Ratio	52dB	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
LENS		
Lens Type	Manual / DC auto iris	
Mount Type	C / CS	
OPERATIONAL		
Camera Title	Off / On (Displayed up to 54 characters)	
Day & Night	Auto / Day / Night (Software method)	
Backlight Compensation	Off / BLC	
Contrast Enhancement	XDR (eXtended Dynamic Range) - Off / Low / Middle / High	
Digital Noise Reduction	Motion adaptive 2D+3D noise filter (Off / Low / Middle / High / User)	
Digital Image Stabilization	Off / On	
Motion Detection	Off / On (4 programmable zones)	
Privacy Masking	Off / On (12 polygonal programmable zones, 4 point polygonal method)	
Sens-up (Frame Integration)	Off / Auto (2x ~ 512x)	
Gain Control	AGC (Low / Middle / High)	
White Balance	ATW1 / ATW2 / AWC / 3200K / 5600K	
Electronic Shutter Speed	Off / Auto (1/100 ~ 1/10Ksec)	Off / Auto (1/120 ~ 1/10Ksec)
Digital Zoom	16x	
Flip / Mirror	Off / On	
Profile	Standard / ITS / Backlight / Day & Night / Gaming / Custom	
PIP	Off / On	
Alarm I/O	Input 2ea / Output 2ea (Relay)	
NETWORK		
Ethernet	RJ-45 (10/100BASE-T)	
Video Compression Format	H.264, MPEG-4, MJPEG	
Resolution	704 x 480, 640 x 480, 352 x 240	704 x 576, 640 x 480, 352 x 288
Max. Framerate	30fps	25fps
Video Quality Adjustment	H.264, MPEG-4 : Compression level, Target bitrate level control MJPEG : Quality level control	
Bitrate Control Method	H.264, MPEG-4 : CBR or VBR, MJPEG : VBR	
Streaming Capability	Dual streaming (MPEG-4 + MJPEG or H.264 + MJPEG)	
IP	IPv4, IPv6	
Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, PPPoE FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF	
Security	HTTPS(SSL) login authentication, Digest login authentication User access log	
Streaming Method	Unicast / Multicast	
Max. User Access	10 users at unicast mode	
ONVIF Conformance	Yes	
Web Language	English, French, German, Spanish, Italian, Chinese, Korean	
Web Viewer	Supported OS : Windows XP / VISTA / 7 Supported Browser : Internet Explorer 6.0 or Higher	
Central Management Software	NET-i viewer	
ENVIRONMENTAL		
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / 20% ~ 80% RH	
ELECTRICAL		
Input Voltage	12V DC, 24V AC, PoE (IEEE802.3af)	
Power Consumption	Max. 7W	
MECHANICAL		
Color / Material	Silver / Metal	
Dimensions (WxHxD)	72.0 x 60.0 x 136.8mm (2.83" x 2.36" x 5.39")	
Weight	300g (0.66 lb)	

SNB-1000

VGA Network Camera



Lens not included

VGA IPv6 PoE

Key Features

- Max. 30(25)fps at VGA resolution
- H.264, MPEG-4, MJPEG multiple codec
- Multiple streaming simultaneously

Accessories (optional):


SHB-4300H1


SHB-4200/SHB-4200H


STB-400

USE WITH


STH-500

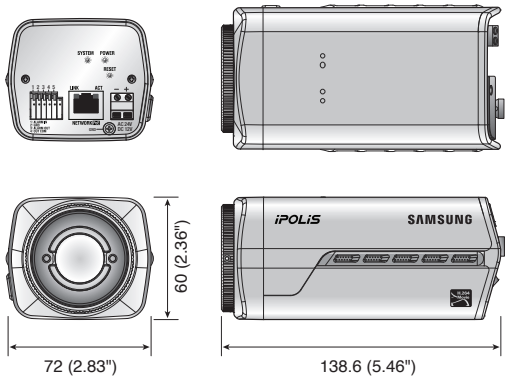
OR


STH-200


STB-4150V

Dimensions

Unit : mm (inch)



Technical Specifications

	SNB-1000N	SNB-1000P
VIDEO		
Imaging Device	1/4" PS CMOS	
Total Pixels	656(H) x 488(V)	
Effective Pixels	640(H) x 480(V)	
Scanning System	Progressive	
Min. Illumination	Color : 1.4Lux (F1.2, 50IRE), 0.18Lux (Sens-up 8x)	
S / N Ratio	50dB	
LENS		
Lens Type	Fixed i ris	
Mount Type	C / CS	
OPERATIONAL		
Day & Night	Auto	
Motion Detection	Off / On (4 programmable zones)	
Sens-up (Frame Integration)	Off / Auto (2x ~ 8x)	
Gain Control	2x, 4x, 8x, 16x, 32x	
White Balance	Auto / Manual	
Flip / Mirror	Off / On	
Alarm I/O	Input 1ea / Output 1ea (Relay)	
NETWORK		
Ethernet	RJ-45 (10/100BASE-T)	
Video Compression Format	H.264, MPEG-4, MJPEG	
Resolution	640 x 480, 320 x 240	
Max. Framerate	30fps	25fps
Video Quality Adjustment	H.264, MPEG-4 : Compression level, Target bitrate level control MJPEG : Quality level control	
Bitrate Control Method	H.264, MPEG-4 : CBR or VBR, MJPEG : VBR	
Streaming Capability	Multiple streaming (Up to 10 profiles)	
IP	IPv4, IPv6	
Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, PPPoE FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF	
Security	HTTPS(SSL) login authentication, Digest login authentication IP address filtering, User access log, 802.1x Authentication	
Streaming Method	Unicast / Multicast	
Max. User Access	5 users at unicast mode	
ONVIF Conformance	Yes	
Webpage Language	English, French, German, Spanish, Italian, Korean Chinese, Russian, Japanese, Danish, Swedish, Portuguese	
Web Viewer	Supported OS : Windows XP / VISTA / 7, MAC OS Supported Browser : Internet Explorer 6.0 or Higher, Firefox, Google Chrome, Apple Safari	
Central Management Software	NET-i viewer	
ENVIRONMENTAL		
Operating Temperature / Humidity	0°C ~ +50°C (+32°F ~ +122°F) / 20% ~ 80% RH	
ELECTRICAL		
Input Voltage	12V DC, 500mA / PoE (IEEE802.3af)	
Power Consumption	Max. 2.5W	
MECHANICAL		
Color / Material	Silver / Metal	
Dimensions (WxHxD)	72.0 x 60.0 x 136.8mm (2.83" x 2.36" x 5.39")	
Weight	370g (0.82 lb)	

SNZ-5200

1.3Megapixel HD 20x Network Zoom Camera



1.3M | 20x A/F Lens | SSDR | D&N ICR | PoE

Key Features

- Max. 1.3M (1280 x 1024) resolution
- 16 : 9 HD (720p) resolution support
- 4.45 ~ 89mm (20x) optical zoom, 16x digital zoom
- H.264, MPEG-4, MJPEG multiple codec
- PoE, SD memory, bi-directional audio support

Accessories (optional):


SHB-4300H1


SHB-4200/SHB-4200H


STB-400

USE WITH


STH-500

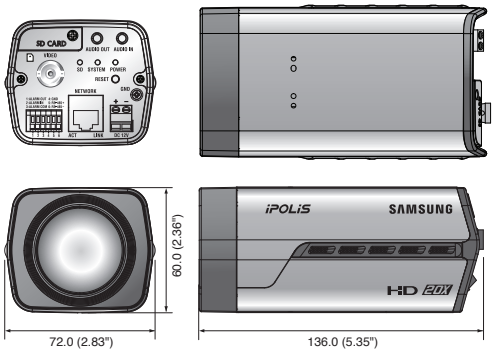
OR


STH-200


STB-4150V

Dimensions

Unit : mm (inch)



Technical Specifications

	SNZ-5200N/P
VIDEO	
Imaging Device	1/3" 1.3M PS CMOS
Total Pixels	1,384(H) x 1,076(V)
Effective Pixels	1,329(H) x 1,049(V)
Scanning System	Progressive
Min. Illumination	Color : 0.7Lux (F1.2, 50IRE), 0.01Lux (Sens-up 60x, 50IRE) B/W : 0.08Lux (F1.6, 50IRE), 0.001Lux (Sens-up 60x, 50IRE)
S / N Ratio	52dB
Video Output	CVBS : 1.0 Vp-p / 75Ω composite, 704 x 480(N), 704 x 576(P), for installation
LENS	
Focal Length (Zoom Ratio)	4.45 ~ 89mm (20x)
Max. Aperture Ratio	F1.6(Wide) / F2.9(Tele)
Angular Field of View	H : 56.56°(Wide) ~ 3.10°(Tele) / V : 43.32°(Wide) ~ 2.34°(Tele)
Min. Object Distance	1m (3.28ft)
Focus Control	AF / One-shot AF / Manual (Remote control via Network)
Lens Type	DC auto iris
Mount Type	Board-in type
PAN / TILT / ROTATE	
Preset	128ea
OPERATIONAL	
Camera Title	Off / On (Displayed up to 15 characters)
Day & Night	Auto (ICR) / Color / B/W
Backlight Compensation	Off / BLC / HLC
Contrast Enhancement	SSDR (Samsung Super Dynamic Range) (Off / On)
Digital Noise Reduction	SSNRIII (2D+3D noise filter) (Off / On)
Digital Image Stabilization	Off / On
Motion Detection	Off / On (4 programmable zones)
Privacy Masking	Off / On (8 programmable zones)
Sens-up (Frame Integration)	Off / Auto (2x ~ 60x)
Gain Control	Off / Low / Medium / High / Manual
White Balance	ATW / AWC / Manual / Indoor / Outdoor
Electronic Shutter Speed	Auto / A.FLK / Manual (1/30 ~ 30,000sec)
Digital Zoom	16x
Flip / Mirror	Off / On
Intelligent Video Analytics	Scene change, Virtual line, Enter / Exit, Appear / Disappear
Alarm I/O	Input 1ea / Output 1ea (Relay)
Remote Control Interface	RS-485
RS-485 Protocol	Samsung-T/E, Pelco-P/D
NETWORK	
Ethernet	RJ-45 (10/100BASE-T)
Video Compression Format	H.264, MPEG-4, MJPEG
Resolution	1280 x 1024, 1280 x 720P (HD), 1024 x 768, 800 x 600, 640 x 480, 320 x 240
Max. Framerate	30fps
Video Quality Adjustment	H.264, MPEG-4 : Compression level, Target bitrate level control MJPEG : Quality level control
Bitrate Control Method	H.264, MPEG-4 : CBR or VBR, MJPEG : VBR
Streaming Capability	Multiple streaming (Up to 10 profiles)
Audio I/O	Mic / Line in, Line out
Audio Compression Format	G.711 u-law
Audio Communication	Bi-directional audio
IP	IPv4, IPv6
Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, PPPoE FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF
Security	HTTPS(SSL) login authentication, Digest login authentication IP address filtering, User access log, 802.1x authentication
Streaming Method	Unicast / Multicast
Max. User Access	10 users at unicast mode
Memory Slot	SD/SDHC memory slot
ONVIF Conformance	Yes
Webpage Language	English, French, German, Spanish, Italian, Chinese, Korean, Russian, Japanese, Swedish, Danish, Portuguese, Turkish, Polish, Czech, Rumanian, Serbian, Dutch, Croatian, Hungarian, Greek
Web Viewer	Supported OS : Windows XP / VISTA / 7, MAC OS Supported Browser : Internet Explorer 6.0 or Higher, Firefox, Google Chrome, Apple Safari
Central Management Software	NET-i viewer
ENVIRONMENTAL	
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / 20 ~ 80% RH
ELECTRICAL	
Input Voltage	12V DC, PoE (IEEE802.3af)
Power Consumption	12V DC : Max. 8W, PoE : Max. 7.5W
MECHANICAL	
Color / Material	Dark gray / Metal
Dimensions (WxHxD)	72.0 x 60.0 x 136.0mm (2.83" x 2.36" x 5.35")
Weight	540g (1.19 lb)

SNO-5080R

1.3Megapixel HD Weatherproof
Network IR Camera



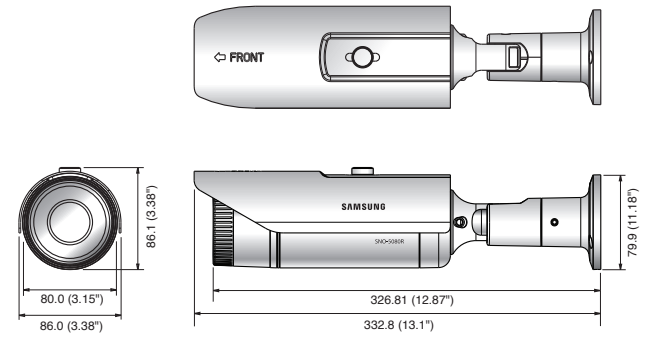
1.3M | 3.6x V/F Lens | SSDR | D&N ICR | PoE

Key Features

- Max. 1.3M (1280 x 1024) resolution
- 16 : 9 HD (720p) resolution support
- 2.8 ~ 10mm (3.6x) varifocal lens
- H.264, MPEG-4, MJPEG multiple codec
- IR LED, PoE

Dimensions

Unit : mm (inch)



Technical Specifications

ONVIF

	SNO-5080RN/P
VIDEO	
Imaging Device	1/3" 1.3M PS CMOS
Total Pixels	1,384(H) x 1,076(V)
Effective Pixels	1,329(H) x 1,049(V)
Scanning System	Progressive
Min. Illumination	Color : 0.3Lux (F1.2, 50IRE), 0.005Lux (Sens-up 60x) B/W : 0Lux (F1.2, 50IRE, IR LED on)
S / N Ratio	50dB
Video Output	DIP connector type, 704 x 480(N), 704 x 576(P), for installation
LENS	
Focal Length (Zoom Ratio)	2.8 ~ 10mm (3.6x) Vari-focal
Max. Aperture Ratio	F1.2
Angular Field of View	H : 94.6°(Wide) ~ 28.8°(Tele), V : 68.4°(Wide) ~ 21.6°(Tele)
Focus Control	Manual
Lens Type	DC auto iris
Mount Type	Board-in type
OPERATIONAL	
IR LED	31ea
Viewable Length	30m
Camera Title	Off / On (Displayed up to 15 characters)
Day & Night	Auto (ICR) / Color / B/W
Backlight Compensation	Off / BLC / HLC
Contrast Enhancement	SSDR (Samsung Super Dynamic Range) (Off / On)
Digital Noise Reduction	SSNRIII (2D+3D noise filter) (Off / On)
Motion Detection	Off / On (4 programmable zones)
Privacy Masking	Off / On (12 programmable zones)
Sens-up (Frame Integration)	Off / Auto (2x ~ 60x)
Gain Control	Off / Low / Medium / High / Manual
White Balance	ATW / AWC / Manual / Indoor / Outdoor
Electronic Shutter Speed	Auto / A.FLK / Manual (1/30 ~ 30,000sec)
Flip / Mirror	Off / On
Intelligent Video Analytics	Scene change, Virtual line, Enter / Exit, Appear / Disappear
Alarm I/O	Input 1ea / Output 1ea (Relay)
NETWORK	
Ethernet	RJ-45 (10/100BASE-T)
Video Compression Format	H.264, MPEG-4, MJPEG
Resolution	1280 x 1024, 1280 x 720P (HD), 1024 x 768, 800 x 600, 640 x 480, 320 x 240
Max. Framerate	22fps (1280 x 1024), 30fps (720P HD)
Video Quality Adjustment	H.264, MPEG-4 : Compression level, Target bitrate level control MJPEG : Quality level control
Bitrate Control Method	H.264, MPEG-4 : CBR or VBR, MJPEG : VBR
Streaming Capability	Multiple streaming (Up to 10 profiles)
IP	IPv4, IPv6
Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, PPPoE FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF
Security	HTTPS(SSL) login authentication, Digest login authentication IP address filtering, User access log
Streaming Method	Unicast / Multicast
Max. User Access	10 users at unicast mode
ONVIF Conformance	Yes
Webpage Language	English, French, German, Spanish, Italian, Chinese, Korean, Russian, Japanese, Swedish, Danish, Portuguese, Turkish, Polish, Czech, Rumanian, Serbian, Dutch, Croatian, Hungarian, Greek
Web Viewer	Supported OS : Windows XP / VISTA / 7, MAC OS Supported Browser : Internet Explorer 6.0 or Higher, Firefox, Google Chrome, Apple Safari
Central Management Software	NET-i viewer
ENVIRONMENTAL	
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / Less than 90% RH
Ingress Protection	IP66 Grade (Waterproof)
ELECTRICAL	
Input Voltage	12V DC, 24V AC, PoE (IEEE802.3af)
Power Consumption	Max. 11W
MECHANICAL	
Color / Material	Dark gray / Metal
Dimensions (WxHxD)	86.0 x 86.1 x 332.8mm (3.39" x 3.39" x 13.1")
Weight	1.3Kg (2.87 lb)

SND-7080/7080F

3Megapixel Full HD Network Dome Camera



SND-7080 SND-7080F

3M | 2.8x Motorized V/F Lens | WDR 128x 160x | D&N ICR | PoE

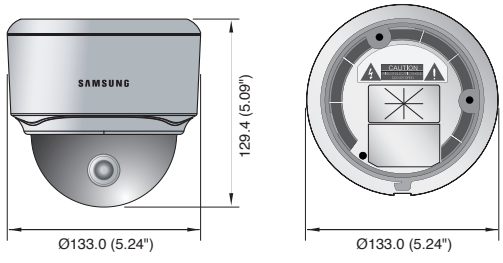
Key Features

- Max. 3M (2048 x 1536) resolution
- 16 : 9 Full HD (1080p) resolution support
- 3 ~ 8.5mm (2.8x) motorized varifocal lens
- H.264, MJPEG dual codec
- WDR (supported in 2M mode only)
- Smart codec (ROI encoding)

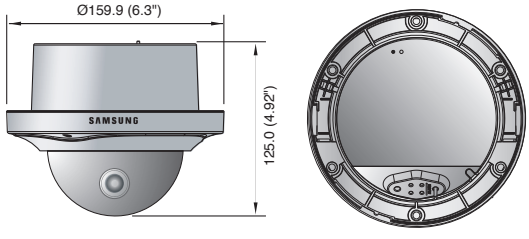
Dimensions

Unit : mm (inch)

SND-7080



SND-7080F



Technical Specifications

	SND-7080(F)N/P
VIDEO	
Imaging Device	1/2.8" 3M PS CMOS
Total Pixels	2,144(H) x 1,588(V)
Effective Pixels	2,096(H) x 1,561(V)
Scanning System	Progressive
Min. Illumination (TBD)	Color : 1Lux (F1.2, 50IRE), 0.017Lux (Sens-up 60x) B/W : 0.08Lux (F1.2, 50IRE), 0.001Lux (Sens-up 60x)
S / N Ratio	50dB
Video Output	CVBS : 1.0 Vp-p / 75Ω composite, 704 x 480(N), 704 x 576(P), for installation
LENS	
Focal Length (Zoom Ratio)	3 ~ 8.5mm (2.8x) Motorized vari-focal
Max. Aperture Ratio	F1.2
Angular Field of View	H : 100°(Wide) ~ 35.3°(Tele), V : 74.6°(Wide) ~ 26°(Tele)
Min. Object Distance	0.5m (1.64ft)
Focus Control	Remote control via network (Manual, One-shot AF)
Lens Type	DC auto iris
Mount Type	Board-in type
PAN / TILT / ROTATE	
Pan Range	0° ~ 355°
Tilt Range	0° ~ 90°
Rotate Range	0° ~ 355°
OPERATIONAL	
Camera Title	Off / On (Displayed up to 15 characters)
Day & Night	Auto (ICR) / Color / B/W / External B/W
Backlight Compensation	Off / BLC / HLC / WDR
Wide Dynamic Range	(* 2M mode only), 52dB
Contrast Enhancement	SSDR (Samsung Super Dynamic Range) (Off / On)
Digital Noise Reduction	SSNRIII (2D+3D noise filter) (Off / On)
Motion Detection	Off / On (4 programmable zones)
Privacy Masking	Off / On (1ea 4 point polygonal + 16ea rectangular zones)
Sens-up (Frame Integration)	Off / Auto (2x ~ 60x)
Gain Control	Off / Low / Medium / High
White Balance	ATW / AWC / Manual / Indoor / Outdoor
Electronic Shutter Speed	Auto / A.FLK / Manual (1/30 ~ 30,000sec)
Flip / Mirror	Off / On
Alarm I/O	Input 1ea / Output 1ea (Relay)
NETWORK	
Ethernet	RJ-45 (10/100BASE-T)
Video Compression Format	H.264, MJPEG
Resolution	3M mode - H.264 : Max. 20fps at all resolutions MJPEG : 800 x 600 ~ 320 x 180 - 20fps 1280 x 1024 ~1600 x 1200 - 15fps 1920 x 1080 ~ 2048 x 1536 - 10fps 2M mode - H.264 : Max. 30fps at all resolutions (When WDR on, Max. framerate is Max. 15fps.) MJPEG : 800 x 600 ~ 320 x 180 - 30fps 1280 x 1024 ~ 1920 x 1080 : 15fps
Max. Framerate	3M mode : Max. 20fps, 2M mode : Max. 30fps * When WDR on, Max. framerate is Max. 15fps
Smart Codec	Yes (Area based method, Face detection method)
Video Quality Adjustment	H.264 : Compression level, Target bitrate level control MJPEG : Quality level control
Bitrate Control Method	H.264 : CBR or VBR, MJPEG : VBR
Streaming Capability	Multiple streaming (Up to 6 profiles)
Audio I/O	Mic / Line in, Line out
Audio Compression Format	G.711 u-law
Audio Communication	Bi-directional audio
IP	IPv4, IPv6
Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, PPPoE FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF
Security	HTTPS(SSL) login authentication, Digest login authentication IP address filtering, User access log, 802.1x authentication
Streaming Method	Unicast / Multicast
Max. User Access	10 users at unicast mode
Memory Slot	SD/SDHC memory slot
ONVIF Conformance	Yes
Webpage Language	English, French, German, Spanish, Italian, Chinese, Korean, Russian, Japanese, Swedish, Danish, Portuguese, Turkish, Polish, Czech, Rumanian, Serbian, Dutch, Croatian, Hungarian, Greek
Web Viewer	Supported OS : Windows XP / VISTA / 7, MAC OS Supported Browser : Internet Explorer 7.0 or Higher, Firefox, Google Chrome, Apple Safari
Central Management Software	NET-i viewer
ENVIRONMENTAL	
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / 20% ~ 80% RH
ELECTRICAL	
Input Voltage	12V DC, 24V AC, PoE (IEEE802.3af)
Power Consumption	Max. 7W
MECHANICAL	
Color / Material	Ivory / Plastic
Dimensions (WxH)	SND-7080 : Ø133.0 x 129.4mm (Ø5.24" x 5.09") SND-7080F : Ø159.9 x 125.0mm (Ø6.3" x 4.92") (Flush mounting type)
Weight	SND-7080 : 700g (1.54 lb), SND-7080F : 800g (1.76 lb)

SND-5080/5080F

1.3Megapixel HD Network Dome Camera



SND-5080 SND-5080F

1.3M | 3.6x V/F Lens | SSDR | D&N ICR | PoE

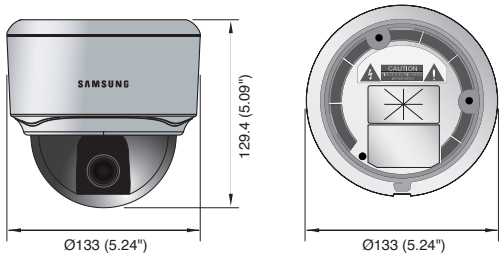
Key Features

- Max. 1.3M (1280 x 1024) resolution
- 16 : 9 HD (720p) resolution support
- 2.8 ~ 10mm (3.6x) varifocal lens
- H.264, MPEG-4, MJPEG multiple codec
- PoE, SD memory, bi-directional audio support

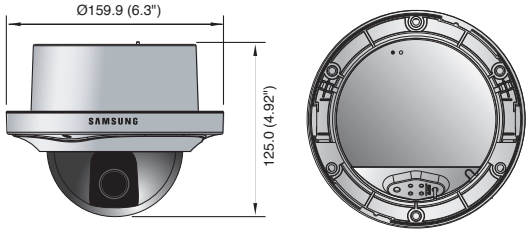
Dimensions

Unit : mm (inch)

SND-5080



SND-5080F



Technical Specifications

	SND-5080(F)N/P
VIDEO	
Imaging Device	1/3" 1.3M PS CMOS
Total Pixels	1,384(H) x 1,076(V)
Effective Pixels	1,329(H) x 1,049(V)
Scanning System	Progressive
Min. Illumination	Color : 0.3Lux (F1.2, 50IRE), 0.005Lux (Sens-up 60x) B/W : 0.01Lux (F1.2, 50IRE), 0.0002Lux (Sens-up 60x)
S / N Ratio	50dB
Video Output	CVBS : 1.0 Vp-p / 75Ω composite, 704 x 480(N), 704 x 576(P), for installation
LENS	
Focal Length (Zoom Ratio)	2.8 ~ 10mm (3.6x) Vari-focal
Max. Aperture Ratio	F1.2
Angular Field of View	H : 94.6°(Wide) ~ 28.8°(Tele), V : 68.4°(Wide) ~ 21.6°(Tele)
Lens Type	DC auto iris
Mount Type	Board-in type
PAN / TILT / ROTATE	
Pan Range	0° ~ 355°
Tilt Range	0° ~ 90°
Rotate Range	0° ~ 355°
OPERATIONAL	
Camera Title	Off / On (Displayed up to 15 characters)
Day & Night	Auto (ICR) / Color / B/W
Backlight Compensation	Off / BLC / HLC
Contrast Enhancement	SSDR (Samsung Super Dynamic Range) (Off / On)
Digital Noise Reduction	SSNRIII (2D+3D noise filter) (Off / On)
Motion Detection	Off / On (4 programmable zones)
Privacy Masking	Off / On (12 programmable zones)
Sens-up (Frame Integration)	Off / Auto (2x ~ 60x)
Gain Control	Off / Low / Medium / High / Manual
White Balance	ATW / AWC / Manual / Indoor / Outdoor
Electronic Shutter Speed	Auto / A.FLK / Manual (1/30 ~ 30,000sec)
Flip / Mirror	Off / On
Intelligent Video Analytics	Scene change, Virtual line, Enter / Exit, Appear / Disappear
Alarm I/O	Input 1ea / Output 1ea (Relay)
NETWORK	
Ethernet	RJ-45 (10/100BASE-T)
Video Compression Format	H.264, MPEG-4, MJPEG
Resolution	1280 x 1024, 1280 x 720P (HD), 1024 x 768, 800 x 600, 640 x 480, 320 x 240
Max. Framerate	22fps (1280 x 1024), 30fps (720P HD)
Video Quality Adjustment	H.264, MPEG-4 : Compression level, Target bitrate level control MJPEG : Quality level control
Bitrate Control Method	H.264, MPEG-4 : CBR or VBR, MJPEG : VBR
Streaming Capability	Multiple streaming (Up to 10 profiles)
Audio I/O	Mic / Line in, Line out
Audio Compression Format	G.711 u-law
Audio Communication	Bi-directional audio
IP	IPv4, IPv6
Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, PPPoE FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF
Security	HTTPS(SSL) login authentication, Digest login authentication IP address filtering, User access log
Streaming Method	Unicast / Multicast
Max. User Access	10 users at unicast mode
Memory Slot	SD/SDHC memory slot
ONVIF Conformance	Yes
Webpage Language	English, French, German, Spanish, Italian, Chinese, Korean, Russian, Japanese, Swedish, Danish, Portuguese, Turkish, Polish, Czech, Rumanian, Serbian, Dutch, Croatian, Hungarian, Greek
Web Viewer	Supported OS : Windows XP / VISTA / 7, MAC OS Supported Browser : Internet Explorer 6.0 or Higher, Firefox, Google Chrome, Apple Safari
Central Management Software	NET-i viewer
ENVIRONMENTAL	
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / 20% ~ 80% RH
ELECTRICAL	
Input Voltage	12V DC, 24V AC, PoE (IEEE802.3af)
Power Consumption	Max. 7W
MECHANICAL	
Color / Material	White / Plastic
Dimensions (WxH)	SND-5080 : Ø133.0 x 129.4mm (Ø5.24" x 5.09") SND-5080F : Ø159.9 x 125.0mm (Ø6.3" x 4.92") (Flush mounting type)
Weight	SND-5080 : 523g (1.15 lb), SND-5080F : 650g (1.43 lb)

SND-3080C/3080CF

4CIF People Counting Network Dome Camera



SND-3080C SND-3080CF

4CIF | 3.9x V/F Lens | WDR 128x 160x | E-D&N | People Counting

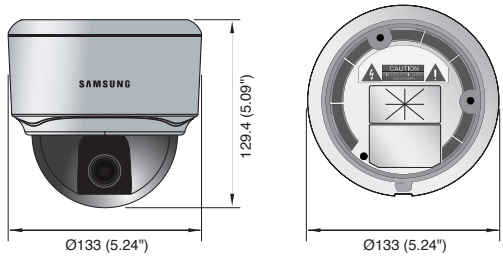
Key Features

- Max. 30(25)fps at 4CIF resolution
- 2.8 ~ 11mm (3.9x) varifocal lens
- H.264, MPEG-4, MJPEG multiple codec
- PoE, SD memory, people counting analytics

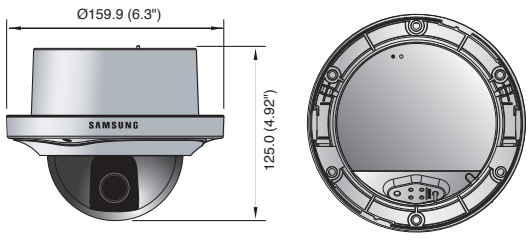
Dimensions

Unit : mm (inch)

SND-3080C



SND-3080CF



Technical Specifications

	SND-3080C(F)N	SND-3080C(F)P
VIDEO		
Imaging Device	1/3" Super HAD PS CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	Progressive (If WDR on, Interlaced scan)	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 600TV lines	
Min. Illumination	Color : 0.4Lux (F1.2, 50IRE), 0.001Lux (Sens-up 512x) B/W : 0.4Lux (F1.2, 50IRE), 0.001Lux (Sens-up 512x)	
S / N Ratio	52dB	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
LENS		
Focal Length (Zoom Ratio)	2.8 ~ 11mm (3.9x) Vari-focal	
Max. Aperture Ratio	F1.2	
Angular Field of View	H : 94.6°(Wide) ~ 28.8°(Tele), V : 68.4°(Wide) ~ 21.6°(Tele)	
Lens Type	DC auto iris	
Mount Type	Board-in type	
PAN / TILT / ROTATE		
Pan Range	0° ~ 355°	
Tilt Range	0° ~ 90°	
Rotate Range	0° ~ 355°	
OPERATIONAL		
Camera Title	Off / On (Displayed up to 54 characters)	
Day & Night	Auto / Day / Night (Software method)	
Backlight Compensation	Off / BLC / WDR	
Wide Dynamic Range	128x, 52dB	160x, 52dB
Contrast Enhancement	XDR (eXtended Dynamic Range) - Off / Low / Middle / High	
Digital Noise Reduction	Motion adaptive 2D+3D noise filter (Off / Low / Middle / High / User)	
Digital Image Stabilization	Off / On	
Motion Detection	Off / On (4 programmable zones)	
Privacy Masking	Off / On (12 polygonal programmable zones, 4 point polygonal method)	
Sens-up (Frame Integration)	Off / Auto (2x ~ 512x)	
Gain Control	AGC (Low / Middle / High)	
White Balance	ATW1 / ATW2 / AWC / 3200K / 5600K	
Electronic Shutter Speed	Off / Auto (1/100 ~ 1/10Ksec)	Off / Auto (1/120 ~ 1/10Ksec)
Digital Zoom	16x	
Flip / Mirror	Off / On	
Profile	Standard / ITS / Backlight / Day & Night / Gaming / Custom	
Intelligent Video Analytics	People counting (Line-based counting, Area-based counting)	
PIP	Off / On	
Alarm I/O	Input 2ea / Output 2ea (Relay)	
NETWORK		
Ethernet	RJ-45 (10/100BASE-T)	
Video Compression Format	H.264, MPEG-4, MJPEG	
Resolution	704 x 480, 640 x 480, 352 x 240	704 x 576, 640 x 480, 352 x 288
Max. Framerate	30fps	25fps
Video Quality Adjustment	H.264, MPEG-4 : Compression level, Target bitrate level control MJPEG : Quality level control	
Bitrate Control Method	H.264, MPEG-4 : CBR or VBR, MJPEG : VBR	
Streaming Capability	Dual streaming (MPEG-4 + MJPEG or H.264 + MJPEG)	
IP	IPv4, IPv6	
Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, PPPoE FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF	
Security	HTTPS(SSL) login authentication, Digest login authentication User access log	
Streaming Method	Unicast / Multicast	
Max. User Access	10 users at unicast mode	
Memory Slot	SD/SDHC memory slot	
ONVIF Conformance	Yes	
Webpage Language	English, French, German, Spanish, Italian, Chinese, Korean	
Web Viewer	Supported OS : Windows XP / VISTA / 7 Supported Browser : Internet Explorer 6.0 or Higher	
Central Management Software	NET-i viewer	
ENVIRONMENTAL		
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / 20% ~ 80% RH	
ELECTRICAL		
Input Voltage	12V DC, 24V AC, PoE (IEEE802.3af)	
Power Consumption	Max. 7W	
MECHANICAL		
Color / Material	White / Plastic	
Dimensions (WxH)	SND-3080C : Ø133.0 x 129.4mm (Ø5.24" x 5.09") SND-3080CF : Ø159.9 x 125.0mm (Ø6.3" x 4.92") (Flush mounting type)	
Weight	SND-3080C : 523g (1.15 lb), SND-3080CF : 650g (1.43 lb)	

SND-3080/3080F

4CIF WDR Network Dome Camera



SND-3080 SND-3080F

4CIF | 3.9x V/F Lens | WDR 128x 160x | E-D&N | PoE

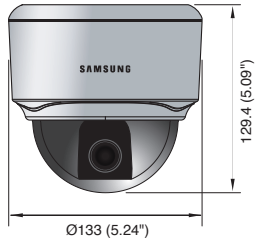
Key Features

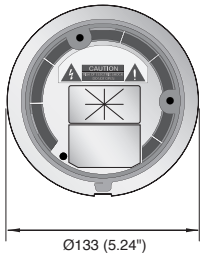
- Max. 30(25)fps at 4CIF resolution
- 2.8 ~ 11mm (3.9x) varifocal lens
- H.264, MPEG-4, MJPEG multiple codec
- PoE, SD memory

Dimensions

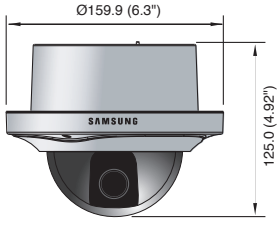
Unit : mm (inch)

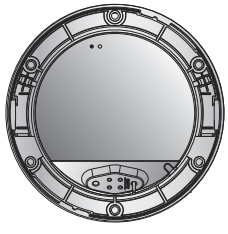
SND-3080





SND-3080F





Technical Specifications

	SND-3080(F)N	SND-3080(F)P
VIDEO		
Imaging Device	1/3" Super HAD PS CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	Progressive (If WDR on, Interlaced scan)	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 600TV lines	
Min. Illumination	Color : 0.4Lux (F1.2, 50IRE), 0.001Lux (Sens-up 512x) B/W : 0.4Lux (F1.2, 50IRE), 0.001Lux (Sens-up 512x)	
S / N Ratio	52dB	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
LENS		
Focal Length (Zoom Ratio)	2.8 ~ 11mm (3.9x) Vari-focal	
Max. Aperture Ratio	F1.2	
Angular Field of View	H : 94.6°(Wide) ~ 28.8°(Tele), V : 68.4°(Wide) ~ 21.6°(Tele)	
Lens Type	DC auto iris	
Mount Type	Board-in type	
PAN / TILT / ROTATE		
Pan Range	0° ~ 355°	
Tilt Range	0° ~ 90°	
Rotate Range	0° ~ 355°	
OPERATIONAL		
Camera Title	Off / On (Displayed up to 54 characters)	
Day & Night	Auto / Day / Night (Software method)	
Backlight Compensation	Off / BLC / WDR	
Wide Dynamic Range	128x, 52dB	160x, 52dB
Contrast Enhancement	XDR (eXtended Dynamic Range) - Off / Low / Middle / High	
Digital Noise Reduction	Motion adaptive 2D+3D noise filter (Off / Low / Middle / High / User)	
Digital Image Stabilization	Off / On	
Motion Detection	Off / On (4 programmable zones)	
Privacy Masking	Off / On (12 polygonal programmable zones, 4 point polygonal method)	
Sens-up (Frame Integration)	Off / Auto (2x ~ 512x)	
Gain Control	AGC (Low / Middle / High)	
White Balance	ATW1 / ATW2 / AWC / 3200K / 5600K	
Electronic Shutter Speed	Off / Auto (1/100 ~ 1/10Ksec)	Off / Auto (1/120 ~ 1/10Ksec)
Digital Zoom	16x	
Flip / Mirror	Off / On	
Profile	Standard / ITS / Backlight / Day & Night / Gaming / Custom	
PIP	Off / On	
Alarm I/O	Input 2ea / Output 2ea (Relay)	
NETWORK		
Ethernet	RJ-45 (10/100BASE-T)	
Video Compression Format	H.264, MPEG-4, MJPEG	
Resolution	704 x 480, 640 x 480, 352 x 240	704 x 576, 640 x 480, 352 x 288
Max. Framerate	30fps	25fps
Video Quality Adjustment	H.264, MPEG-4 : Compression level, Target bitrate level control MJPEG : Quality level control	
Bitrate Control Method	H.264, MPEG-4 : CBR or VBR, MJPEG : VBR	
Streaming Capability	Dual streaming (MPEG-4 + MJPEG or H.264 + MJPEG)	
IP	IPv4, IPv6	
Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, PPPoE FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF	
Security	HTTPS(SSL) login authentication, Digest login authentication User access log	
Streaming Method	Unicast / Multicast	
Max. User Access	10 users at unicast mode	
Memory Slot	SD/SDHC memory slot	
ONVIF Conformance	Yes	
Webpage Language	English, French, German, Spanish, Italian, Chinese, Korean	
Web Viewer	Supported OS : Windows XP / VISTA / 7 Supported Browser : Internet Explorer 6.0 or Higher	
Central Management Software	NET-i viewer	
ENVIRONMENTAL		
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / 20% ~ 80% RH	
ELECTRICAL		
Input Voltage	12V DC, 24V AC, PoE (IEEE802.3af)	
Power Consumption	Max. 7W	
MECHANICAL		
Color / Material	White / Plastic	
Dimensions (WxH)	SND-3080 : Ø133.0 x 129.4mm (Ø5.24" x 5.09") SND-3080F : Ø159.9 x 125.0mm (Ø6.3" x 4.92") (Flush mounting type)	
Weight	SND-3080 : 523g (1.15 lb), SND-3080F : 650g (1.43 lb)	

SND-1010

VGA Network Dome Camera



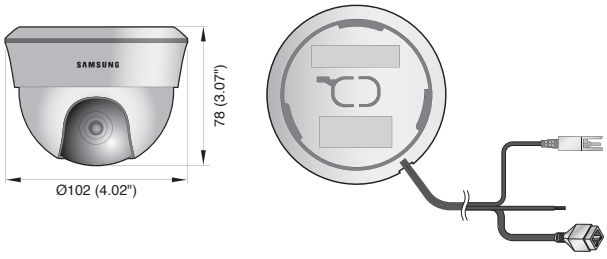
VGA | 2.9mm | IPv6 | PoE

Key Features

- Max. 30(25)fps at VGA resolution
- Built-in 2.9mm fixed lens
- H.264, MPEG-4, MJPEG multiple codec
- Multiple streaming simultaneously

Dimensions

Unit : mm (inch)



Technical Specifications

	SND-1010N	SND-1010P
VIDEO		
Imaging Device	1/4" PS CMOS	
Total Pixels	656(H) x 488(V)	
Effective Pixels	640(H) x 480(V)	
Scanning System	Progressive	
Min. Illumination	Color : 1.4Lux (F1.2, 50IRE), 0.18Lux (Sens-up 8x)	
S / N Ratio	50dB	
LENS		
Focal Length (Zoom Ratio)	2.9mm	
Max. Aperture Ratio	F2.0	
Angular Field of View	H : 68˚, V : 50˚, D : 85˚	
Lens Type	Fixed Iris	
Mount Type	Board-in type	
OPERATIONAL		
Day & Night	Auto	
Motion Detection	Off / On (4 programmable zones)	
Sens-up (Frame Integration)	Off / Auto (2x ~ 8x)	
Gain Control	2x, 4x, 8x, 16x, 32x	
White Balance	Auto / Manual	
Flip / Mirror	Off / On	
Alarm I/O	Input 1ea / Output 1ea (Relay)	
NETWORK		
Ethernet	RJ-45 (10/100BASE-T)	
Video Compression Format	H.264, MPEG-4, MJPEG	
Resolution	640 x 480, 320 x 240	
Max. Framerate	30fps	25fps
Video Quality Adjustment	H.264, MPEG-4 : Compression level, Target bitrate level control MJPEG : Quality level control	
Bitrate Control Method	H.264, MPEG-4 : CBR or VBR, MJPEG : VBR	
Streaming Capability	Multiple streaming (Up to 10 profiles)	
IP	IPv4, IPv6	
Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, PPPoE FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF	
Security	HTTPS(SSL) login authentication, Digest login authentication IP address filtering, User access log, 802.1x Authentication	
Streaming Method	Unicast / Multicast	
Max. User Access	5 users at unicast mode	
ONVIF Conformance	Yes	
Webpage Language	English, French, German, Spanish, Italian, Korean Chinese, Russian, Japanese, Danish, Swedish, Portuguese	
Web Viewer	Supported OS : Windows XP / VISTA / 7, MAC OS Supported Browser : Internet Explorer 6.0 or Higher, Firefox, Google Chrome, Apple Safari	
Central Management Software	NET-i viewer	
ENVIRONMENTAL		
Operating Temperature / Humidity	0°C ~ +50°C (+32°F ~ +122°F) / 20% ~ 80% RH	
ELECTRICAL		
Input Voltage	12V DC, 500mA / PoE (IEEE802.3af)	
Power Consumption	Max. 2.5W	
MECHANICAL		
Color / Material	White / Plastic	
Dimensions (WxH)	Ø102.0 x 78.0mm (Ø4.02" x 3.07")	
Weight	200g (0.44 lb)	

SNV-7080

3Megapixel Full HD Vandal-Resistant
Network Dome Camera



3M | 2.8x Motorized V/F Lens | WDR 128x 160x | D&N ICR | PoE

Key Features

- Max. 3M (2048 x 1536) resolution
- 16 : 9 Full HD (1080p) resolution support
- 3~8.5mm (2.8x) motorized varifocal lens
- H.264, MJPEG dual codec
- WDR (supported in 2M mode only)
- Smart codec (ROI encoding)

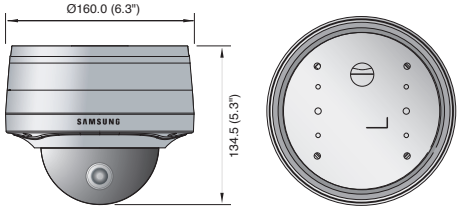
Accessories (Optional)



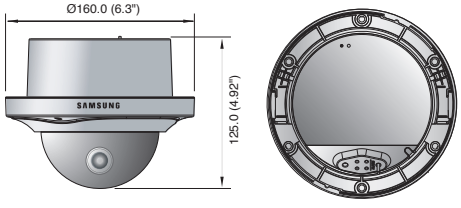
SBP-300WM1 SBP-300WM SBP-300CM SBP-300HM1 SBP-300LM SBP-300PM SBP-300KM

Dimensions

Unit : mm (inch)



Flush Type



Technical Specifications

	SNV-7080N/P
VIDEO	
Imaging Device	1/2.8" 3M PS CMOS
Total Pixels	2,144(H) x 1,588(V)
Effective Pixels	2,096(H) x 1,561(V)
Scanning System	Progressive
Min. Illumination (TBD)	Color : 1Lux (F1.2, 50IRE), 0.017Lux (Sens-up 60x) B/W : 0.08Lux (F1.2, 50IRE), 0.001Lux (Sens-up 60x)
S / N Ratio	50dB
Video Output	CVBS : 1.0 Vp-p / 75Ω composite, 704 x 480(N), 704 x 576(P), for installation
LENS	
Focal Length (Zoom Ratio)	3 ~ 8.5mm (2.8x) Motorized vari-focal
Max. Aperture Ratio	F1.2
Angular Field of View	H : 100°(Wide) ~ 35.3°(Tele), V : 74.6°(Wide) ~ 26°(Tele)
Min. Object Distance	0.5m (1.64ft)
Focus Control	Remote control via network (Manual, One-shot AF)
Lens Type	DC auto iris
Mount Type	Board-in type
PAN / TILT / ROTATE	
Pan Range	0° ~ 355°
Tilt Range	0° ~ 90°
Rotate Range	0° ~ 355°
OPERATIONAL	
Camera Title	Off / On (Displayed up to 15 characters)
Day & Night	Auto (ICR) / Color / B/W / External B/W
Backlight Compensation	Off / BLC / HLC / WDR
Wide Dynamic Range	(* 2M mode only), 52dB
Contrast Enhancement	SSDR (Samsung Super Dynamic Range) (Off / On)
Digital Noise Reduction	SSNRIII (2D+3D noise filter) (Off / On)
Motion Detection	Off / On (4 programmable zones)
Privacy Masking	Off / On (1ea 4 point polygonal + 16ea rectangular zones)
Sens-up (Frame Integration)	Off / Auto (2x ~ 60x)
Gain Control	Off / Low / Medium / High
White Balance	ATW / AWC / Manual / Indoor / Outdoor
Electronic Shutter Speed	Auto / A.FLK / Manual (1/30 ~ 30,000sec)
Flip / Mirror	Off / On
Alarm I/O	Input 1ea / Output 1ea (Relay)
NETWORK	
Ethernet	RJ-45 (10/100BASE-T)
Video Compression Format	H.264, MJPEG
Resolution	3M mode - H.264 : Max. 20fps at all resolutions MJPEG : 800 x 600 ~ 320 x 180 - 20fps 1280 x 1024 ~1600 x 1200 - 15fps 1920 x 1080 ~ 2048 x 1536 - 10fps 2M mode - H.264 : Max. 30fps at all resolutions (When WDR on, Max. framerate is Max. 15fps.) MJPEG : 800 x 600 ~ 320 x 180 - 30fps 1280 x 1024 ~ 1920 x 1080 : 15fps
Max. Framerate	3M mode : Max. 20fps, 2M mode : Max. 30fps * When WDR on, Max. framerate is Max. 15fps
Smart Codec	Yes (Area based method, Face detection method)
Video Quality Adjustment	H.264 : Compression level, Target bitrate level control MJPEG : Quality level control
Bitrate Control Method	H.264 : CBR or VBR, MJPEG : VBR
Streaming Capability	Multiple streaming (Up to 6 profiles)
Audio I/O	Mic / Line in, Line out
Audio Compression Format	G.711 u-law
Audio Communication	Bi-directional audio
IP	IPv4, IPv6
Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, PPPoE FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF
Security	HTTPS(SSL) login authentication, Digest login authentication IP address filtering, User access log, 802.1x authentication
Streaming Method	Unicast / Multicast
Max. User Access	10 users at unicast mode
Memory Slot	SD/SDHC memory slot
ONVIF Conformance	Yes
Webpage Language	English, French, German, Spanish, Italian, Chinese, Korean, Russian, Japanese, Swedish, Danish, Portuguese, Turkish, Polish, Czech, Rumanian, Serbian, Dutch, Croatian, Hungarian, Greek
Web Viewer	Supported OS : Windows XP / VISTA / 7, MAC OS Supported Browser : Internet Explorer 7.0 or Higher, Firefox, Google Chrome, Apple Safari
Central Management Software	NET-i viewer
ENVIRONMENTAL	
Operating Temperature / Humidity	-40°C ~ +50°C (-40°F ~ +122°F) / Less than 90% RH
Ingress Protection	IP66 Grade (Waterproof)
ELECTRICAL	
Input Voltage	12V DC, 24V AC, PoE (IEEE802.3af)
Power Consumption	Max. 7W (Heater off), Max. 11W (Heater on)
MECHANICAL	
Color / Material	Ivory / Aluminum
Dimensions (WxH)	Ø160.0 x 134.5mm (Ø6.3" x 5.3")
Weight	1.4Kg (3.09 lb)

SNV-5080

1.3Megapixel HD Vandal-Resistant
Network Dome Camera



1.3M | 3.6x V/F Lens | SSDR | D&N ICR | PoE

Key Features

- Max. 1.3M (1280 x 1024) resolution
- 16 : 9 HD (720p) resolution support
- 2.8 ~ 10mm (3.6x) varifocal lens
- H.264, MPEG-4, MJPEG multiple codec
- PoE, SD memory, IP66, bi-directional audio support

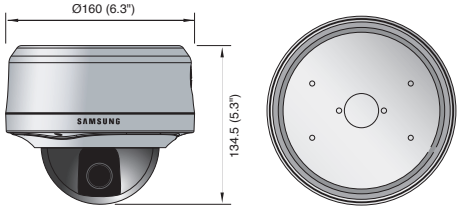
Accessories (Optional)



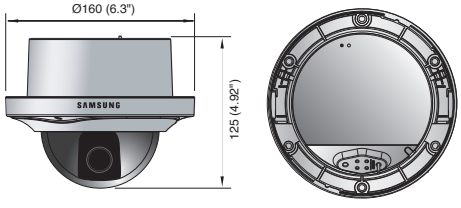
SCX-300WM SCX-300CM SCX-300HM SCX-300LM SCX-300PM SCX-300KM

Dimensions

Unit : mm (inch)



Flush Type



Technical Specifications

	SNV-5080N/P
VIDEO	
Imaging Device	1/3" 1.3M PS CMOS
Total Pixels	1,384(H) x 1,076(V)
Effective Pixels	1,329(H) x 1,049(V)
Scanning System	Progressive
Min. Illumination	Color : 0.3Lux (F1.2, 50IRE), 0.005Lux (Sens-up 60x) B/W : 0.01Lux (F1.2, 50IRE), 0.0002Lux (Sens-up 60x)
S / N Ratio	50dB
Video Output	CVBS : 1.0 Vp-p / 75Ω composite, 704 x 480(N), 704 x 576(P), for installation
LENS	
Focal Length (Zoom Ratio)	2.8 ~ 10mm (3.6x) Vari-focal
Max. Aperture Ratio	F1.2
Angular Field of View	H : 94.6°(Wide) ~ 28.8°(Tele), V : 68.4°(Wide) ~ 21.6°(Tele)
Lens Type	DC auto iris
Mount Type	Board-in type
PAN / TILT / ROTATE	
Pan Range	0° ~ 355°
Tilt Range	0° ~ 90°
Rotate Range	0° ~ 355°
OPERATIONAL	
Camera Title	Off / On (Displayed up to 15 characters)
Day & Night	Auto (ICR) / Color / B/W
Backlight Compensation	Off / BLC / HLC
Contrast Enhancement	SSDR (Samsung Super Dynamic Range) (Off / On)
Digital Noise Reduction	SSNRIII (2D+3D noise filter) (Off / On)
Motion Detection	Off / On (4 programmable zones)
Privacy Masking	Off / On (12 programmable zones)
Sens-up (Frame Integration)	Off / Auto (2x ~ 60x)
Gain Control	Off / Low / Medium / High / Manual
White Balance	ATW / AWC / Manual / Indoor / Outdoor
Electronic Shutter Speed	Auto / A.FLK / Manual (1/30 ~ 30,000sec)
Flip / Mirror	Off / On
Intelligent Video Analytics	Scene change, Virtual line, Enter / Exit, Appear / Disappear
Alarm I/O	Input 1ea / Output 1ea (Relay)
NETWORK	
Ethernet	RJ-45 (10/100BASE-T)
Video Compression Format	H.264, MPEG-4, MJPEG
Resolution	1280 x 1024, 1280 x 720P (HD), 1024 x 768, 800 x 600, 640 x 480, 320 x 240
Max. Framerate	22fps (1280 x 1024), 30fps (720P HD)
Video Quality Adjustment	H.264, MPEG-4 : Compression level, Target bitrate level control MJPEG : Quality level control
Bitrate Control Method	H.264, MPEG-4 : CBR or VBR, MJPEG : VBR
Streaming Capability	Multiple streaming (Up to 10 profiles)
Audio I/O	Mic / Line in, Line out
Audio Compression Format	G.711 u-law
Audio Communication	Bi-directional audio
IP	IPv4, IPv6
Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, PPPoE FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF
Security	HTTPS(SSL) login authentication, Digest login authentication IP address filtering, User access log
Streaming Method	Unicast / Multicast
Max. User Access	10 users at unicast mode
Memory Slot	SD/SDHC memory slot
ONVIF Conformance	Yes
Webpage Language	English, French, German, Spanish, Italian, Chinese, Korean, Russian, Japanese, Swedish, Danish, Portuguese, Turkish, Polish, Czech, Rumanian, Serbian, Dutch, Croatian, Hungarian, Greek
Web Viewer	Supported OS : Windows XP / VISTA / 7, MAC OS Supported Browser : Internet Explorer 6.0 or Higher, Firefox, Google Chrome, Apple Safari
Central Management Software	NET-i viewer
ENVIRONMENTAL	
Operating Temperature / Humidity	-40°C ~ +50°C (-40°F ~ +122°F) / Less than 90% RH
Ingress Protection	IP66 Grade (Waterproof)
ELECTRICAL	
Input Voltage	12V DC, 24V AC, PoE (IEEE802.3af)
Power Consumption	Max. 8W (Heater off), Max. 11W (Heater on)
MECHANICAL	
Color / Material	Light gray / Aluminum
Dimensions (WxH)	Ø160.0 x 134.5mm (Ø6.3" x 5.3")
Weight	1.28Kg (2.82 lb)

SNV-5010

1.3Megapixel HD Vandal-Resistant
Network Flat Camera



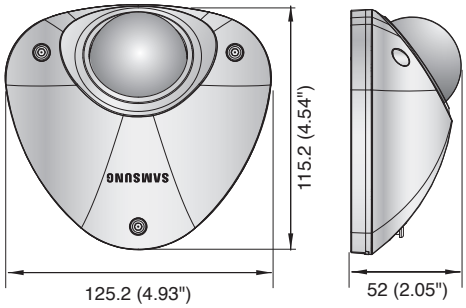
1.3M | 3mm | SSDR | PoE

Key Features

- Max. 1.3M (1280 x 1024) resolution
- 16 : 9 HD (720p) resolution support
- Built-in 3mm fixed lens
- H.264, MPEG-4, MJPEG multiple codec
- PoE, IP66

Dimensions

Unit : mm (inch)



Technical Specifications

ONVIF

	SNV-5010N/P
VIDEO	
Imaging Device	1/3" 1.3M PS CMOS
Total Pixels	1,384(H) x 1,076(V)
Effective Pixels	1,329(H) x 1,049(V)
Scanning System	Progressive
Min. Illumination	Color : 1Lux (F1.8, 50IRE), 0.016Lux (Sens-up 60x)
S / N Ratio	50dB
Video Output	DIP connector, 704 x 480(N), 704 x 576(P), for installation
LENS	
Focal Length (Zoom Ratio)	3mm
Max. Aperture Ratio	F1.8
Angular Field of View	H : 91.2°, V : 72.3°
Lens Type	Fixed iris
Mount Type	Board-in type
PAN / TILT / ROTATE	
Pan Range	-10° ~ 10°
Tilt Range	0° ~ 90°
OPERATIONAL	
Camera Title	Off / On (Displayed up to 15 characters)
Backlight Compensation	Off / BLC / HLC
Contrast Enhancement	SSDR (Samsung Super Dynamic Range) (Off / On)
Digital Noise Reduction	SSNRIII (2D+3D noise filter) (Off / On)
Motion Detection	Off / On (4 programmable zones)
Privacy Masking	Off / On (12 programmable zones)
Sens-up (Frame Integration)	Off / Auto (2x ~ 60x)
Gain Control	Off / Low / Medium / High / Manual
White Balance	ATW / AWC / Manual / Indoor / Outdoor
Electronic Shutter Speed	Auto / A.FLK / Manual (1/30 ~ 30,000sec)
Flip / Mirror	Off / On
Intelligent Video Analytics	Scene change, Virtual line, Enter / Exit, Appear / Disappear
NETWORK	
Ethernet	RJ-45 (10/100BASE-T)
Video Compression Format	H.264, MPEG-4, MJPEG
Resolution	1280 x 1024, 1280 x 720P (HD), 1024 x 768, 800 x 600, 640 x 480, 320 x 240
Max. Framerate	22fps (1280 x 1024), 30fps (720P HD)
Video Quality Adjustment	H.264, MPEG-4 : Compression level, Target bitrate level control MJPEG : Quality level control
Bitrate Control Method	H.264, MPEG-4 : CBR or VBR, MJPEG : VBR
Streaming Capability	Multiple streaming (Up to 10 profiles)
IP	IPv4, IPv6
Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, PPPoE FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF
Security	HTTPS(SSL) login authentication, Digest login authentication IP address filtering, User access log
Streaming Method	Unicast / Multicast
Max. User Access	10 users at unicast mode
ONVIF Conformance	Yes
Webpage Language	English, French, German, Spanish, Italian, Chinese, Korean, Russian, Japanese, Swedish, Danish, Portuguese, Turkish, Polish, Czech, Rumanian, Serbian, Dutch, Croatian, Hungarian, Greek
Web Viewer	Supported OS : Windows XP / VISTA / 7, MAC OS Supported Browser : Internet Explorer 6.0 or Higher, Firefox, Google Chrome, Apple Safari
Central Management Software	NET-i viewer
ENVIRONMENTAL	
Operating Temperature / Humidity	-10°C ~ +50°C (-14°F ~ +122°F) / Less than 90% RH
Ingress Protection	IP66 Grade (Waterproof)
ELECTRICAL	
Input Voltage	12V DC, PoE (IEEE802.3af)
Power Consumption	Max. 6W
MECHANICAL	
Color / Material	Ivory / Aluminum
Dimensions (WxHxD)	125.2 x 52.0 x 115.2mm (4.93" x 2.05" x 4.54")
Weight	435g (0.96 lb)

SNV-3120

4CIF 12x Vandal-Resistant
Network Dome Camera



4CIF | 12x A/F Lens | WDR 128x 160x | D&N ICR | PoE

Key Features

- Max. 30(25)fps at 4CIF resolution
- 3.69 ~ 44.32mm (12x) optical zoom, 16x digital zoom
- H.264, MPEG-4, MJPEG multiple codec
- PoE, SD memory, IP66, bi-directional audio support

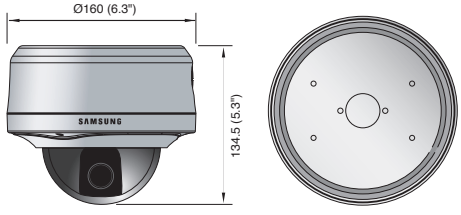
Accessories (Optional)



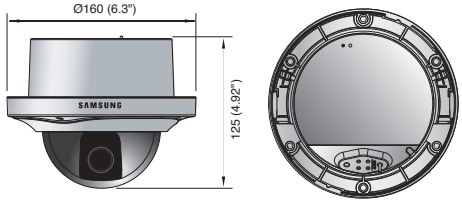
SCX-300WM SCX-300CM SCX-300HM SCX-300LM SCX-300PM SCX-300KM

Dimensions

Unit : mm (inch)



Flush Type



Technical Specifications

	SNV-3120N	SNV-3120P
VIDEO		
Imaging Device	1/4" Ex-view HAD PS CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	Progressive (VPS on) (If WDR on, Interlaced scan)	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 600TV lines	
Min. Illumination	Color : 0.7Lux (F1.65, 50IRE), 0.001Lux (Sens-up 512x) B/W : 0.07Lux (F1.65, 50IRE), 0.0001Lux (Sens-up 512x)	
S / N Ratio	50dB	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
LENS		
Focal Length (Zoom Ratio)	3.69 ~ 44.32mm (12x)	
Max. Aperture Ratio	F1.65(Wide) / F2.01(Tele)	
Angular Field of View	H : 54.44°(Wide) ~ 4.64°(Tele), V : 41.42°(Wide) ~ 3.52°(Tele)	
Min. Object Distance	0.2m (Wide) / 0.8m (Tele)	
Focus Control	AF / One-shot AF / Manual	
Lens Type	DC auto iris	
PAN / TILT / ROTATE		
Pan Range	0° ~ 355°	
Tilt Range	0° ~ 90°	
Rotate Range	0° ~ 355°	
Preset	12ea	
Preset Accuracy	±0.1°	
OPERATIONAL		
Camera Title	Off / On (Displayed up to 54 characters)	
Day & Night	Auto (ICR) / Color / B/W	
Backlight Compensation	Off / BLC / WDR	
Wide Dynamic Range	128x, 52dB	160x, 52dB
Contrast Enhancement	XDR (eXtended Dynamic Range) - Off / Low / Middle / High	
Digital Noise Reduction	Motion adaptive 2D+3D noise filter (Off / Low / Middle / High / User)	
Digital Image Stabilization	Off / On	
Motion Detection	Off / On (4 programmable zones)	
Privacy Masking	Off / On (12 polygonal programmable zones)	
Sens-up (Frame Integration)	Off / Auto (2x ~ 512x)	
Gain Control	Off / Very Low / Low / Medium / High / Very High	
White Balance	ATW1 / ATW2 / AWC / Manual	
Electronic Shutter Speed	Off / Manual (1/100 ~ 1/10Ksec)	
Digital Zoom	16x	
Flip / Mirror	Digital flip	
VPS	Off / On	
Intelligent Video Analytics	Moved / Fixed	
Alarm I/O	Input 1ea / Output 1ea (Relay)	
NETWORK		
Ethernet	RJ-45 (10/100BASE-T)	
Video Compression Format	H.264, MPEG-4, MJPEG	
Resolution	704 x 480, 640 x 480, 352 x 240, 320 x 240	704 x 576, 640 x 480, 352 x 288, 320 x 240
Max. Framerate	30fps	25fps
Video Quality Adjustment	H.264, MPEG-4 : Compression level, Target bitrate level control MJPEG : Quality level control	
Bitrate Control Method	H.264, MPEG-4 : CBR or VBR, MJPEG : VBR	
Streaming Capability	Multiple streaming (Up to 10 profiles)	
Audio I/O	Mic / Line in, Line out	
Audio Compression Format	G.711 u-law	
Audio Communication	Bi-directional audio	
IP	IPv4, IPv6	
Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, PPPoE FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF	
Security	HTTPS(SSL) login authentication, Digest login authentication IP address filtering, User access log	
Streaming Method	Unicast / Multicast	
Max. User Access	10 users at unicast mode	
Memory Slot	SD/SDHC memory slot	
ONVIF Conformance	Yes	
Web Viewer	Supported OS : Windows XP / VISTA / 7, MAC OS Supported Browser : Internet Explorer 6.0 or Higher, Firefox, Google Chrome, Apple Safari	
Central Management Software	NET-i viewer	
ENVIRONMENTAL		
Operating Temperature / Humidity	-40°C ~ +50°C (-40°F ~ +122°F) / Less than 90% RH	
Ingress Protection	IP66 Grade (Waterproof)	
ELECTRICAL		
Input Voltage	12V DC, 24V AC, PoE (IEEE802.3af)	
Power Consumption	Max. 8W (Heater off), Max. 11W (Heater on)	
MECHANICAL		
Color / Material	Light gray / Aluminum	
Dimensions (WxH)	Ø160.0 x 134.5mm (Ø6.3" x 5.3")	
Weight	1.5Kg (3.31 lb)	

SNV-3080

4CIF WDR Vandal-Resistant
Network Dome Camera





Key Features

- Max. 30(25)fps at 4CIF resolution
- 2.8 ~ 11mm (3.9x) varifocal lens
- H.264, MPEG-4, MJPEG multiple codec
- PoE, SD memory, IP66, bi-directional audio support

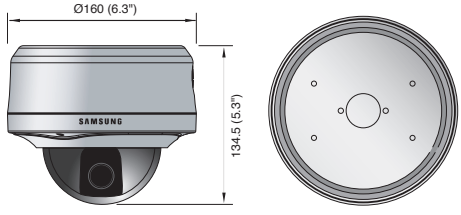
Accessories (Optional)



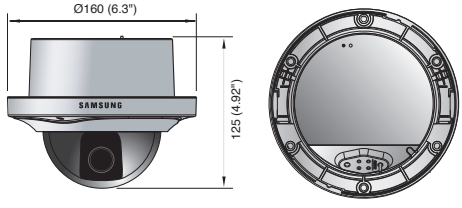
SCX-300WM SCX-300CM SCX-300HM SCX-300LM SCX-300PM SCX-300KM

Dimensions

Unit : mm (inch)



Flush Type



Technical Specifications

	SNV-3080N	SNV-3080P
VIDEO		
Imaging Device	1/3" Super HAD PS CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	Progressive (If WDR on, Interlaced scan)	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 600TV lines	
Min. Illumination	Color : 0.4Lux (F1.2, 50IRE), 0.001Lux (Sens-up 512x) B/W : 0.04Lux (F1.2, 50IRE), 0.0001Lux (Sens-up 512x)	
S / N Ratio	52dB	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite, 704 x 480(N), 704 x 576(P), for installation	
LENS		
Focal Length (Zoom Ratio)	2.8 ~ 11mm (3.9x) Vari-focal	
Max. Aperture Ratio	F1.2	
Angular Field of View	H : 94.6°(Wide) ~ 28.8°(Tele), V : 68.4°(Wide) ~ 21.6°(Tele)	
Lens Type	DC auto iris	
Mount Type	Board-in type	
PAN / TILT / ROTATE		
Pan Range	0° ~ 355°	
Tilt Range	0° ~ 90°	
Rotate Range	0° ~ 355°	
OPERATIONAL		
Camera Title	Off / On (Displayed up to 54 characters)	
Day & Night	Auto / Day / Night (IR cut filter)	
Backlight Compensation	Off / BLC / WDR	
Wide Dynamic Range	128x, 52dB	160x, 52dB
Contrast Enhancement	XDR (eXtended Dynamic Range) - Off / Low / Middle / High	
Digital Noise Reduction	Motion adaptive 2D+3D noise filter (Off / Low / Middle / High / User)	
Digital Image Stabilization	Off / On	
Motion Detection	Off / On (4 programmable zones)	
Privacy Masking	Off / On (12 polygonal programmable zones, 4 point polygonal method)	
Sens-up (Frame Integration)	Off / Auto (2x ~ 512x)	
Gain Control	AGC (Low / Middle / High)	
White Balance	ATW1 / ATW2 / AWC / 3200K / 5600K	
Electronic Shutter Speed	Off / Auto (1/100 ~ 1/10Ksec)	Off / Auto (1/120 ~ 1/10Ksec)
Digital Zoom	16x	
Flip / Mirror	Off / On	
Profile	Standard / ITS / Backlight / Day & Night / Gaming / Custom	
Intelligent Video Analytics	Scene change, Virtual line, Enter / Exit, Appear / Disappear	
PIP	Off / On	
Alarm I/O	Input 2ea / Output 2ea (Relay)	
NETWORK		
Ethernet	RJ-45 (10/100BASE-T)	
Video Compression Format	H.264, MPEG-4, MJPEG	
Resolution	704 x 480, 640 x 480, 352 x 240	704 x 576, 640 x 480, 352 x 288
Max. Framerate	30fps	25fps
Video Quality Adjustment	H.264, MPEG-4 : Compression level, Target bitrate level control MJPEG : Quality level control	
Bitrate Control Method	H.264, MPEG-4 : CBR or VBR, MJPEG : VBR	
Streaming Capability	Dual streaming (MPEG-4 + MJPEG or H.264 + MJPEG)	
Audio I/O	Mic / Line in, Line out	
Audio Compression Format	G.711 u-law	
Audio Communication	Bi-directional audio	
IP	IPv4, IPv6	
Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, PPPoE FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF	
Security	HTTPS(SSL) login authentication, Digest login authentication IP address filtering, User access log	
Streaming Method	Unicast / Multicast	
Max. User Access	10 users at unicast mode	
Memory Slot	SD/SDHC memory slot	
ONVIF Conformance	Yes	
Webpage Language	English, French, German, Spanish, Italian, Chinese, Korean	
Web Viewer	Supported OS : Windows XP / VISTA / 7 Supported Browser : Internet Explorer 6.0 or Higher	
Central Management Software	NET-i viewer	
ENVIRONMENTAL		
Operating Temperature / Humidity	-40°C ~ +50°C (-40°F ~ +122°F) / Less than 90% RH	
Ingress Protection	IP66 Grade (Waterproof)	
ELECTRICAL		
Input Voltage	12V DC, 24V AC, PoE (IEEE802.3af)	
Power Consumption	Max. 8W (Heater off), Max. 11W (Heater on)	
MECHANICAL		
Color / Material	Light gray / Aluminum	
Dimensions (WxH)	Ø160.0 x 134.5mm (Ø6.3" x 5.3")	
Weight	1.28Kg (2.82 lb)	

SNP-5200H/5200

1.3Megapixel HD 20x Network PTZ Dome Camera



SNP-5200H



SNP-5200

1.3M | 20x A/F Lens | SSDR | D&N ICR | PoE+

Key Features

- Max. 1.3M (1280 x 1024) resolution
- 16 : 9 HD (720p) resolution support
- 4.45 ~ 89mm (20x) optical zoom, 16x digital zoom
- H.264, MPEG-4, MJPEG multiple codec
- PoE plus, SD memory, IP66, bi-directional audio support

Accessories (Optional)



SBP-300WM1 SBP-300WM SBP-300CM SBP-300LM

SBP-300HM1 not needed for "H" models SBP-300PM SBP-300KM

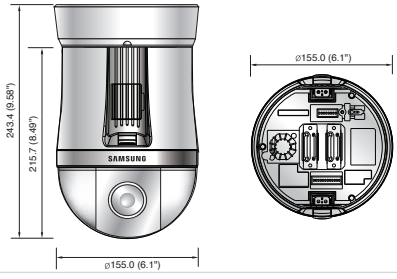


SHP-3700F not needed for "H" models

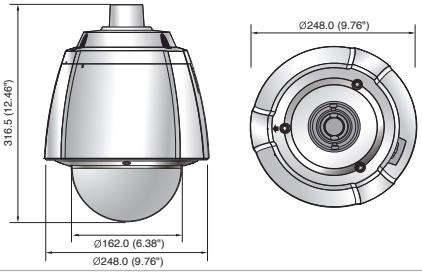
Dimensions

Unit : mm (inch)

SNP-5200



SNP-5200H



Technical Specifications

	SNP-5200N/P	SNP-5200HN/HP
VIDEO		
Imaging Device	1/3" 1.3M PS CMOS	
Total Pixels	1,384(H) x 1,076(V)	
Effective Pixels	1,329(H) x 1,049(V)	
Scanning System	Progressive	
Min. Illumination	Color : 0.7Lux (F1.6, 50IRE), 0.01Lux (Sens-up 60x, 50IRE) B/W : 0.08Lux (F1.6, 50IRE), 0.001Lux (Sens-up 60x, 50IRE)	
S / N Ratio	52dB	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite, 704 x 480(N), 704 x 576(P), for installation	
LENS		
Focal Length (Zoom Ratio)	4.45 ~ 89mm (20x)	
Max. Aperture Ratio	F1.6(Wide) / F2.9(Tele)	
Angular Field of View	H : 56.56°(Wide) ~ 3.10°(Tele) / V : 43.32°(Wide) ~ 2.34°(Tele)	
Min. Object Distance	1m (3.28ft)	
Focus Control	AF / One-shot AF / Manual	
Lens Type	DC auto iris	
Mount Type	Board-in type	
PAN / TILT / ROTATE		
Pan Range	360° Endless	
Pan Speed	Preset : 500°/sec, Manual : 0.024°/sec ~ 120°/sec	
Tilt Range	190°(-5° ~185°)	
Tilt Speed	Preset : 500°/sec, Manual : 0.024°/sec ~ 120°/sec	
Preset	255ea	
Preset Accuracy	±0.1°	
OPERATIONAL		
Camera Title	Off / On (Displayed up to 15 characters)	
Day & Night	Auto (ICR) / Color / B/W	
Backlight Compensation	Off / BLC / HLC	
Contrast Enhancement	SSDR (Samsung Super Dynamic Range) (Off / On)	
Digital Noise Reduction	SSNRIII (2D+3D noise filter) (Off / On)	
Digital Image Stabilization	Off / On	
Motion Detection	Off / On (4 programmable zones)	
Privacy Masking	Off / On (8 programmable zones)	
Sens-up (Frame Integration)	Off / Auto (2x ~ 60x)	
Gain Control	Off / Low / Medium / High / Manual	
White Balance	ATW / AWC / Manual / Indoor / Outdoor	
Electronic Shutter Speed	Auto / A.FLK / Manual (1/30 ~ 30,000sec)	
Digital Zoom	16x	
Flip / Mirror	Off / On	
Intelligent Video Analytics	Scene Change, Virtual Line, Enter / Exit, Appear / Disappear	
Alarm I/O	Input 4ea / Output 2ea (Relay)	
Remote Control Interface	RS-485/422	
RS-485 Protocol	Samsung-T/E, Pelco-P/D, Panasonic, Honeywell, AD, Bosch, Vicon, GE	
NETWORK		
Ethernet	RJ-45 (10/100BASE-T)	
Video Compression Format	H.264, MPEG-4, MJPEG	
Resolution	1280 x 1024, 1280 x 720P (HD), 1024 x 768, 800 x 600, 640 x 480, 320 x 240	
Max. Framerate	30fps at all resolutions	
Video Quality Adjustment	H.264, MPEG-4 : Compression level, Target bitrate level control MJPEG : Quality level control	
Bitrate Control Method	H.264, MPEG-4 : CBR or VBR, MJPEG : VBR	
Streaming Capability	Multiple streaming (Up to 10 profiles)	
Audio I/O	Mic / Line in, Line out	
Audio Compression Format	G.711 u-law	
Audio Communication	Bi-directional audio	
IP	IPv4, IPv6	
Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, PPPoE FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF	
Security	HTTPS(SSL) login authentication, Digest login authentication IP address filtering, User access log, 802.1x authentication	
Streaming Method	Unicast / Multicast	
Max. User Access	10 users at unicast mode	
Memory Slot	SD/SDHC memory slot	
ONVIF Conformance	Yes	
Webpage Language	English, French, German, Spanish, Italian, Chinese, Korean, Russian, Japanese, Swedish, Danish, Portuguese, Turkish, Polish, Czech, Rumanian, Serbian, Dutch, Croatian, Hungarian, Greek	
Web Viewer	Supported OS : Windows XP / VISTA / 7, MAC OS Supported Browser : Internet Explorer 6.0 or Higher, Firefox, Google Chrome, Apple Safari	
Central Management Software	NET-i viewer	
ENVIRONMENTAL		
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / 20% ~ 80% RH	-50°C ~ +50°C (-58°F ~ +122°F) / Less than 90% RH
Ingress Protection	N/A	IP66 Grade (Waterproof)
ELECTRICAL		
Input Voltage	24V AC, PoE+ (IEEE802.3at)	
Power Consumption	Max. 21W	Max. 25W (Heater off), Max. 52W (Heater on) * Heater works at AC input only.
MECHANICAL		
Color / Material	Ivory / Plastic	Ivory / Aluminum / Plastic sun-shield
Dimensions (WxH)	Ø155.0 x 243.4mm (Ø6.1" x 9.58")	Ø248.0 x 316.5mm (9.76" x 12.46")
Weight	2.1Kg (4.63 lb)	4.6Kg (10.14 lb)

SNP-3430H

4CIF 43x Network PTZ Dome Camera



4CIF | 43x A/F Lens | WDR 128x 160x | D&N ICR | PoE+

Key Features

- Max. 30(25)fps at 4CIF resolution
- 3.2 ~ 138.5mm (43x) optical zoom, 16x digital zoom
- H.264, MPEG-4, MJPEG multiple codec
- PoE plus, SD memory, IP66, bi-directional audio support

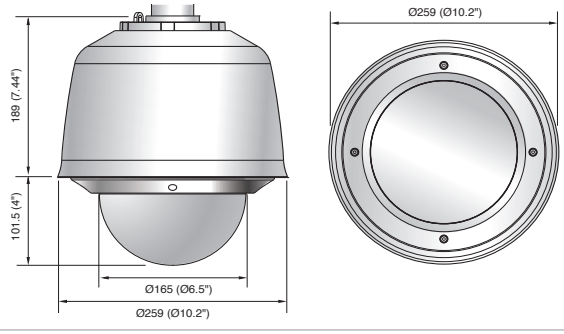
Accessories (Optional)



SBP-300WM1 SBP-300WM SBP-300CM SBP-300LM SBP-300PM SBP-300KM

Dimensions

Unit : mm (inch)



Technical Specifications

	SNP-3430HN	SNP-3430HP
VIDEO		
Imaging Device	1/4" Ex-view HAD PS CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	Progressive (VPS on) (If WDR on, Interlaced scan)	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 600TV lines	
Min. Illumination	Color : 0.7Lux (F1.6, 50IRE), 0.001Lux (Sens-up, 512x) B/W : 0.07Lux (F1.6, 50IRE), 0.0001Lux (Sens-up, 512x)	
S / N Ratio	52dB	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
LENS		
Focal Length (Zoom Ratio)	3.2 ~ 138.5mm (43x)	
Max. Aperture Ratio	F1.6(Wide) / F3.7(Tele)	
Angular Field of View	H : 61.2°(Wide) ~ 1.47°(Tele) / V : 47.2°(Wide) ~ 1.1°(Tele)	
Min. Object Distance	1m (3.28ft)	
Focus Control	AF / One-shot AF / Manual	
Zoom Movement Speed	Max. 3.2sec (Wide - Tele)	
Lens Type	DC auto iris	
Mount Type	Board-in type	
PAN / TILT / ROTATE		
Pan Range	360° Endless	
Pan Speed	Preset : 360°/sec, Manual : 0.05°/sec ~ 200°/sec	
Tilt Range	180°(0° ~180°)	
Tilt Speed	Preset : 360°/sec, Manual : 0.05°/sec ~ 200°/sec	
Preset	255ea	
OPERATIONAL		
Camera Title	Off / On (Displayed up to 32 characters)	
Day & Night	Auto (ICR) / Color / B/W	
Backlight Compensation	Off / BLC / WDR	
Wide Dynamic Range	128x, 52dB	160x, 52dB
Contrast Enhancement	XDR (eXtended Dynamic Range) (Off / Low / Medium / High)	
Digital Noise Reduction	Motion adaptive 2D+3D noise filter (Off / Low / Medium / High / User)	
Digital Image Stabilization	Off / On	
Motion Detection	Off / On (4 programmable zones)	
Privacy Masking	Off / On (12 polygonal programmable zones)	
Sens-up (Frame Integration)	Off / Auto (2x ~ 512x)	
Gain Control	Off / Low / Medium / High / Manual	
White Balance	ATW (In) / ATW (Out) / AWC / Manual	
Electronic Shutter Speed	Off / A.FLK / Manual (1/120 ~ 1/10Ksec)	Off / A.FLK / Manual (1/100 ~ 1/10Ksec)
Digital Zoom	16x	
Flip / Mirror	Off / On	
VPS	Off / On	
Intelligent Video Analytics	Moved / Fixed	
PIP	Off / On	
Schedule	Day / Time schedule	
Alarm I/O	Input 8ea / Output 4ea (Relay)	
Remote Control Interface	RS-485	
RS-485 Protocol	Samsung-T/E, Pelco-P/D, Panasonic, GE (KALATEL), AD, Vicon, Honeywell (DK6), Bosch (Philips), Honeywell (VCLTP)	
NETWORK		
Ethernet	RJ-45 (10/100BASE-T)	
Video Compression Format	H.264, MPEG-4, MJPEG	
Resolution	704 x 480, 640 x 480, 352 x 240	704 x 576, 640 x 480, 352 x 288
Max. Framerate	30fps	25fps
Video Quality Adjustment	H.264, MPEG-4 : Compression level, Target bitrate level control MJPEG : Quality level control	
Bitrate Control Method	H.264, MPEG-4 : CBR or VBR, MJPEG : VBR	
Streaming Capability	Multiple streaming (Up to 10 profiles)	
Audio I/O	Mic / Line in, Line out	
Audio Compression Format	G.711 u-law	
Audio Communication	Bi-directional audio	
IP	IPv4, IPv6	
Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, PPPoE FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF	
Security	HTTPS(SSL) login authentication, Digest login authentication IP address filtering, User access log, 802.1x Authentication	
Streaming Method	Unicast / Multicast	
Max. User Access	10 users at unicast mode	
Memory Slot	SD/SDHC memory slot	
ONVIF Conformance	Yes	
Webpage Language	English, French, German, Spanish, Italian, Chinese, Korean, Japanese, Russian, Swedish, Danish, Portuguese	
Web Viewer	Supported OS : Windows XP / VISTA / 7, MAC OS Supported Browser : Internet Explorer 6.0 or Higher, Firefox, Google Chrome, Apple Safari	
Central Management Software	NET-i viewer	
ENVIRONMENTAL		
Operating Temperature / Humidity	-50°C ~ +50°C (-58°F ~ +122°F) / Less than 90% RH	
Ingress Protection	IP66 Grade (Waterproof)	
ELECTRICAL		
Input Voltage	24V AC, PoE+ (IEEE802.3at) / 2.5A	
Power Consumption	Max. 20W (Heater Off), Max. 50W (Heater On), PoE+ 24W * Heater works at AC input only	
MECHANICAL		
Color / Material	Ivory / Aluminum / Plastic sun-shield	
Dimensions (WxH)	Ø259.0 x 290.5 mm (Ø10.2" x 11.44")	
Weight	4.5Kg (9.92 lb)	

SNP-3371TH/3302H

4CIF 37x/30x Network PTZ Dome Camera





Key Features

- Max. 30(25)fps at 4CIF resolution
- 3.5 ~ 129.5mm (37x) / 3.5 ~ 105mm (30x) optical zoom, 12x digital zoom
- H.264, MPEG-4, MJPEG multiple codec
- Auto tracking (SNP-3370TH), SD memory, IP66, bi-directional audio support

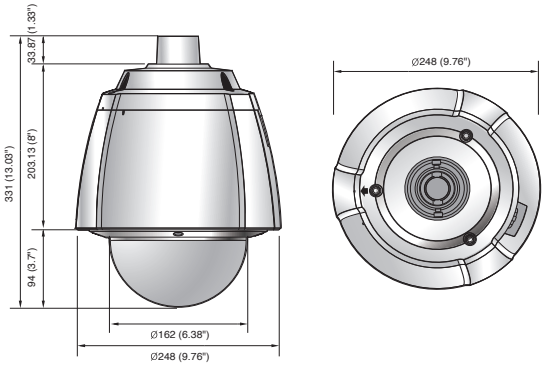
Accessories (Optional)



SBP-300WM1 SBP-300WM SBP-300CM SBP-300LM SBP-300PM SBP-300KM

Dimensions

Unit : mm (inch)



Technical Specifications

	SNP-3371THN/3302H	SNP-3371THP/3302HP
DSP		
Camera ISP	SV5	
VIDEO		
Imaging Device	1/4" Vertical double density interline transfer CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Synchronization	Internal / Line lock	
Scanning System	Progressive(VPS ON) (If WDR on, Interlaced Scan)	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 600TV lines	
Min. Illumination	Color : 0.7Lux (F1.6, 50IRE), 0.0027Lux (Sens-up 256x) B/W : 0.03Lux (F1.6, 50IRE), 0.0001Lux (Sens-up 256x)	
S / N Ratio	52dB	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
LENS		
Focal Length (Zoom Ratio)	SNP-3371TH : 3.5 ~ 129.5mm (37x), SNP-3302H : 3.5 ~ 105mm (30x)	
Max. Aperture Ratio	SNP-3371TH : F1.6(Wide) / F3.9(Tele), SNP-3302H : F1.6(Wide) / F3.6(Tele)	
Angular Field of View	SNP-3371TH : H : 55.5°(Wide) ~ 1.59°(Tele) / V : 42.5°(Wide) ~ 1.19°(Tele) SNP-3302H : H : 55.5°(Wide) ~ 1.77°(Tele) / V : 42.5°(Wide) ~ 1.33°(Tele)	
Min. Object Distance	1.8m (5.91ft)	
Focus Control	AF / One-shot AF / Manual	
Zoom Movement Speed	SNP-3371TH : 2.5x/sec, SNP-3302H : 2.2x/sec	
PAN / TILT / ROTATE		
Pan Speed / Range	Preset : 500°/sec, Manual : 0.024°/sec ~120°/sec ; 360° Endless	
Tilt Speed / Range	Preset : 500°/sec, Manual : 0.024°/sec ~120°/sec; 190° (-5° ~ 185°)	
Preset	255ea	
Preset Accuracy	±0.1°	
Auto Tracking	SNP-3371TH Only	
OPERATIONAL		
On Screen Display	English	
Camera Title	Off / On (Displayed up to 15 characters)	
Day & Night	Auto (ICR) / Color / B/W	
Backlight Compensation	Off / BLC / WDR / HLC	
Wide Dynamic Range	128x, 52dB	160x, 52dB
Contrast Enhancement	SSDR (Samsung Super Dynamic Range) (Off / On)	
Digital Noise Reduction	SSNRIII (2D+3D Noise Filter) (Off / On)	
Digital Image Stabilization	Off / On	
Motion Detection	Yes	
Privacy Masking	Off / On (8 Polygonal programmable zones)	
Sens-up (Frame Integration)	Off / Auto (2X ~ 512X)	
Gain Control	Off / Low / Medium / High	
White Balance	AWC, Manual, Indoor, Outdoor, ATW (1,700°K ~ 11,000°K)	
Electronic Shutter Speed	Auto (1/60 ~ 1/20,000sec) / Manual / A.FLK	Auto (1/50 ~ 1/20,000sec) / Manual / A.FLK
Digital Zoom	12x	
Flip / Mirror	Digital flip	
Intelligent Video Analytics	Appear / Disappear, Fence, Area	
Alarm I/O	Input 4ea / Output 2ea	
Remote Control Interface	RS-485/422	
RS-485 Protocol	Samsung-T/E, Pelco-P/D, Panasonic, Honeywell, AD, Vicon	
NETWORK		
Ethernet	RJ-45 (10/100BASE-T)	
Video Compression Format	H.264, MPEG-4, MJPEG	
Resolution	704 x 480, 352 x 240, 176 x 120	704 x 576, 352 x 288, 176 x 144
Max. Framerate	30fps	25fps
Video Quality Adjustment	H.264/MPEG4 : Compression Level, Target Bitrate Level Control MJPEG : Quality Level Control	
Bitrate Control Method	H.264/MPEG4 : CBR or VBR MJPEG : VBR	
Streaming Capability	Multiple Streaming (Up to 10 Profiles)	
Audio I/O	Line in / Line out	
Audio Compression Format	G.711 u-law	
Audio Communication	Bi-directional audio	
IP	IPv4, IPv6	
Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, PPPOE, FTP, SMTP, ICMP, IGMP, SNMPV1/V2C/V3(MIB-2), ARP, DNS, DDNS, ONVIF	
Security	HTTPS(SSL) Login Authentication, Digest Login Authentication, IP Address Filtering, User access Log, 802.1x Authentication	
Streaming Method	Unicast / Multicast	
Max. User Access	10 users	
Memory Slot	SD/SDHC memory slot	
ONVIF Conformance	Yes	
Web Viewer	Supported OS : Windows XP / VISTA / 7, MAC OS Supported Browser : Internet Explorer 6.0 or Higher, Firefox, Google Chrome, Apple Safari	
Central Management Software	NET-i viewer	
ENVIRONMENTAL		
Operating Temperature / Humidity	-50°C ~ +50°C (-58°F ~ +122°F) / up o 100% RH	
Ingress Protection	IP66 Grade (Waterproof)	
ELECTRICAL		
Input Voltage	24V AC, PoE+ (IEEE802.3at)	
Power Consumption	Max. 22W (Heater off), Max. 64W (Heater on)	
MECHANICAL		
Color / Material	Ivory / Aluminum (Inner) / Plastic Sun-shield (outer)	
Dimensions (WxH)	Ø248.0 x 331.0mm (Ø9.76" x 13.03")	
Weight	4.6Kg (10.14 lb)	

SNP-3371/3302

4CIF 37x/30x Network PTZ Dome Camera





Key Features

- Max. 30(25)fps at 4CIF resolution
- 3.5 ~ 129.5mm (37x) / 3.5 ~ 105mm (30x) optical zoom, 12x digital zoom
- H.264, MPEG-4, MJPEG multiple codec
- SD memory, bi-directional audio support

Accessories (Optional)



SBP-300WM1 SBP-300WM SBP-300CM SBP-300LM

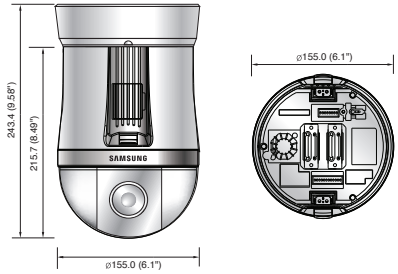
SBP-300HM1 not needed for "H" models

SBP-300PM SBP-300KM

SHP-3700F not needed for "H" models

Dimensions

Unit : mm (inch)



Technical Specifications

	SNP-3371N/3302N	SNP-3371P/3302P
DSP		
Camera ISP	SV5	
VIDEO		
Imaging Device	1/4" Vertical double density interline transfer CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	Progressive(VPS ON) (If WDR on, Interlaced Scan)	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 600TV lines	
Min. Illumination	Color : 0.7Lux (F1.6, 50IRE), 0.0027Lux (Sens-up 256x) B/W : 0.03Lux (F1.6, 50IRE), 0.0001Lux (Sens-up 256x)	
S / N Ratio	52dB	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
LENS		
Focal Length (Zoom Ratio)	SNP-3371 : 3.5 ~ 129.5mm (37x), SNP-3302 : 3.5 ~ 105mm (30x)	
Max. Aperture Ratio	SNP-3371 : F1.6(Wide) / F3.9(Tele), SNP-3302 : F1.6(Wide) / F3.6(Tele)	
Angular Field of View	SNP-3371 : H : 55.5°(Wide) ~ 1.59°(Tele) / V : 42.5°(Wide) ~ 1.19°(Tele) SNP-3301 : H : 55.5°(Wide) ~ 1.77°(Tele) / V : 42.5°(Wide) ~ 1.33°(Tele)	
Min. Object Distance	1.8m (5.91ft)	
Focus Control	AF / One-shot AF / Manual	
Zoom Movement Speed	SNP-3371 : 2.5x/sec, SNP-3302 : 2.2x/sec	
Lens Type	DC auto iris	
Mount Type	Board-in type	
PAN / TILT / ROTATE		
Pan Range	360° Endless	
Pan Speed	Preset : 500°/sec, Manual : 0.024°/sec ~120°/sec	
Tilt Range	190° (-5° ~ 185°)	
Tilt Speed	Preset : 500°/sec, Manual : 0.024°/sec ~120°/sec	
Preset	255ea	
Preset Accuracy	±0.1°	
OPERATIONAL		
Camera Title	Off / On (Displayed up to 15 characters)	
On Screen Display	English	
Day & Night	Auto (ICR) / Color / B/W	
Backlight Compensation	Off / BLC / WDR / HLC	
Wide Dynamic Range	128x, 52dB	160x, 52dB
Contrast Enhancement	SSDR (Samsung Super Dynamic Range) (Off / On)	
Digital Noise Reduction	SSNRIII (2D+3D Noise Filter) (Off / On)	
Digital Image Stabilization	Off / On	
Motion Detection	Yes	
Privacy Masking	Off / On (8 Polygonal programmable zones)	
Sens-up (Frame Integration)	Off / Auto (2X ~ 512X)	
Gain Control	Off / Low / Medium / High	
White Balance	AWC, Manual, Indoor, Outdoor, ATW (1,700°K ~ 11,000°K)	
Electronic Shutter Speed	Auto (1/60 ~ 1/20,000sec) / Manual / A.FLK	Auto (1/50 ~ 1/20,000sec) / Manual / A.FLK
Digital Zoom	12x	
Flip / Mirror	Digital flip	
Intelligent Video Analytics	Appear / Disappear, Fence, Area	
Alarm I/O	Input 4ea / Output 2ea	
Remote Control Interface	RS-485/422	
RS-485 Protocol	Samsung-T/E, Pelco-P/D, Panasonic, Honeywell, AD, Vicon	
NETWORK		
Ethernet	RJ-45 (10/100BASE-T)	
Video Compression Format	H.264, MPEG-4, MJPEG	
Resolution	704 x 480, 352 x 240, 176 x 120	704 x 576, 352 x 288, 176 x 144
Max. Framerate	30fps	25fps
Video Quality Adjustment	H.264/MPEG4 : Compression Level, Target Bitrate Level Control MJPEG : Quality Level Control	
Bitrate Control Method	H.264/MPEG4 : CBR OR VBR MJPEG : VBR	
Streaming Capability	Multiple Streaming (Up to 10 Profiles)	
Audio I/O	Line in / Line out	
Audio Compression Format	G.711 u-law	
Audio Communication	Bi-directional audio	
IP	IPV4, IPV6	
Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, PPPOE, FTP, SMTP, ICMP, IGMP, SNMPV1/V2C/V3(MIB-2), ARP, DNS, DDNS	
Security	HTTPS(SSL) Login Authentication, Digest Login Authentication, IP Address Filtering, User access Log, 802.1x Authentication	
Streaming Method	Unicast / Multicast	
Max. User Access	10 users	
Memory Slot	SD/SDHC memory slot	
ONVIF Conformance	Yes	
Web Viewer	Supported OS : Windows XP / VISTA / 7, MAC OS Supported Browser : Internet Explorer 6.0 or Higher, Firefox, Google Chrome, Apple Safari	
Central Management Software	NET-i viewer	
ENVIRONMENTAL		
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / 20% ~ 80% RH	
ELECTRICAL		
Input Voltage	24V AC, PoE+ (IEEE802.3at)	
Power Consumption	Max. 16W	
MECHANICAL		
Color / Material	Ivory / Plastic	
Dimensions (WxH)	Ø155.0 x 243.4mm (Ø6.1" x 9.58")	
Weight	1.7Kg (3.75 lb)	

SNP-3120/3120V/3120VH

4CIF 12x Network PTZ Dome Camera



SNP-3120 SNP-3120V SNP-3120VH

4CIF | 12x A/F Lens | WDR 128x 160x | D&N ICR | PoE+

Key Features

- Max. 30(25)fps at 4CIF resolution
- 3.69 ~ 44.32mm (12x) optical zoom, 16x digital zoom
- H.264, MPEG-4, MJPEG multiple codec
- PoE plus, SD memory, bi-directional audio support

Accessories (Optional)

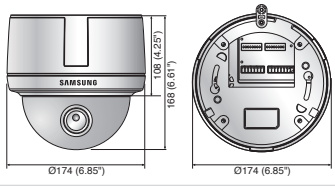


SBP-300WM1 SBP-300WM SBP-300CM SBP-300HM1 (Not for "VH" model) SBP-300LM SBP-300PM SBP-300KM

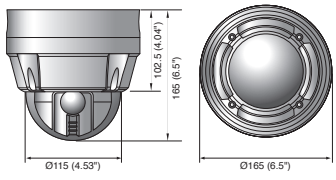
Dimensions

Unit : mm (inch)

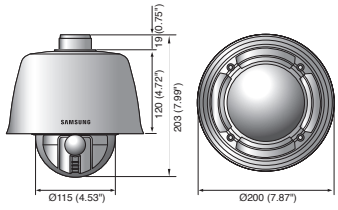
SNP-3120



SNP-3120V



SNP-3120VH



Technical Specifications

	SNP-3120N/VN/VHN	SNP-3120P/VP/VHP
VIDEO		
Imaging Device	1/4" Ex-view HAD PS CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	Progressive (VPS on) (If WDR on, Interlaced scan)	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 600TV lines	
Min. Illumination	Color : 0.7Lux (F1.65, 50IRE), 0.001Lux (Sens-up 512x), B/W : 0.07Lux (F1.65, 50IRE), 0.0001Lux (Sens-up 512x)	
S / N Ratio	50dB	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
LENS		
Focal Length (Zoom Ratio)	3.69 ~ 44.32mm (12x)	
Max. Aperture Ratio	F1.65(Wide) / F2.01(Tele)	
Angular Field of View	H : 54.44°(Wide) ~ 4.62°(Tele), V : 41.42°(Wide) ~ 3.52°(Tele)	
Min. Object Distance	0.2m(Wide) / 0.8m(Tele)	
Focus Control	AF / One-shot AF / Manual	
Lens Type	DC auto iris	
PAN / TILT / ROTATE		
Pan Range	360° Endless	
Pan Speed	Preset : 650°/sec, Manual : 0.05°/sec ~120°/sec (Turbo : 200°/sec)	
Tilt Range	-5°~185°	
Tilt Speed	Preset : 650°/sec, Manual : 0.05°/sec ~120°/sec	
Preset	255ea	
Preset Accuracy	±0.1°	
OPERATIONAL		
Camera Title	Off / On (Displayed up to 12 characters)	
Day & Night	Auto (ICR) / Color / B/W	
Backlight Compensation	Off / BLC / WDR	
Wide Dynamic Range	128x, 52dB	160x, 52dB
Contrast Enhancement	XDR (eXtended Dynamic Range) (Off / Low / Medium / High)	
Digital Noise Reduction	Motion adaptive 2D+3D noise filter (Off / Low / Medium / High)	
Digital Image Stabilization	Off / On	
Motion Detection	Off / On (4 programmable zones)	
Privacy Masking	Off / On (12 polygonal programmable zones)	
Sens-up (Frame Integration)	Off / Auto (2x ~ 512x)	
Gain Control	Off / Low / Medium / High / Manual	
White Balance	ATW (In) / ATW (Out) / AWC / Manual	
Electronic Shutter Speed	Off / A.FLK / Manual (1/120 ~ 1/10Ksec)	
Digital Zoom	16x	
Flip / Mirror	Digital flip	
VPS	Off / On	
Intelligent Video Analytics	Moved / Fixed	
Alarm I/O	Input 2ea / Output 2ea (Relay)	
Remote Control Interface	RS-485	
RS-485 Protocol	Samsung-T/E, Pelco-P/D, Panasonic, Honeywell, AD, Vicon, GE, Bosch	
NETWORK		
Ethernet	RJ-45 (10/100BASE-T)	
Video Compression Format	H.264, MPEG-4, MJPEG	
Resolution	704 x 480, 640 x 480, 352 x 240, 320 x 240	704 x 576, 640 x 480, 352 x 288, 320 x 240
Max. Framerate	30fps	25fps
Video Quality Adjustment	H.264, MPEG-4 : Compression level, Target bitrate level control MJPEG : Quality level control	
Bitrate Control Method	H.264, MPEG-4 : CBR or VBR, MJPEG : VBR	
Streaming Capability	Multiple streaming (Up to 10 profiles)	
Audio I/O	Mic / Line in, Line out	
Audio Compression Format	G.711 u-law	
Audio Communication	Bi-directional audio	
IP	IPv4, IPv6	
Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, PPPoE FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF	
Security	HTTPS(SSL) Login authentication, Digest login authentication IP address filtering, User access log	
Streaming Method	Unicast / Multicast	
Max. User Access	10 users at unicast mode	
Memory Slot	SD/SDHC memory slot	
ONVIF Conformance	Yes	
Web Viewer	Supported OS : Windows XP / VISTA / 7, MAC OS Supported Browser : Internet Explorer 6.0 or Higher, Firefox, Google Chrome, Apple Safari	
Central Management Software	NET-i viewer	
ENVIRONMENTAL		
Operating Temperature / Humidity	SNP-3120 : -10°C ~ +50°C (+14°F ~ +122°F) / 20% ~ 80% RH SNP-3120V/3120VH : -50°C ~ +50°C (-58°F ~ +122°F) / Less than 90% RH	
Ingress Protection	IP66 (SNP-3120V/3120VH) * SNP-3120 not available	
ELECTRICAL		
Input Voltage	24V AC, PoE+ (IEEE802.3at)	
Power Consumption	SNP-3120 : Max. 15W, SNP-3120V/3120VH : Max. 15W (Heater off), Max. 45W (Heater on) * Heater works at AC power input only	
MECHANICAL		
Color / Material	SNP-3120 : Ivory / Plastic, SNP-3120V : Ivory / Aluminum (Vandal-resistance) SNP-3120VH : Ivory / Aluminum (Vandal-resistance), Sun-shield built-in	
Dimensions (WxH)	SNP-3120 : Ø174.0 x 168.0mm (Ø6.85" x 6.61"), SNP-3120V : Ø165.0 x 165.0mm (Ø6.5" x 6.5") SNP-3120VH : Ø200.0 x 203.0mm (Ø7.87" x 7.99")	
Weight	SNP-3120 : 1.2Kg (2.65 lb), SNP-3120V : 1.9Kg (4.19 lb), SNP-3120VH : 2.4Kg (5.29 lb)	

SRN-6450/3250

64CH/32CH Network Video Recorder



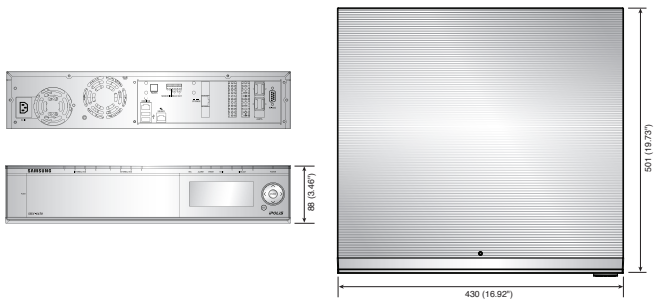
64CH/32CH | H.264 | 1920fps(N) 1600fps(P) | 960fps(N) 800fps(P) | CMS

Key Features

- H.264, MPEG-4, MJPEG multiple codec
- CIF high resolution images at 1920fps(N), 1600fps(P) in real-time (SRN-6450)
  CIF high resolution images at 960fps(N), 800fps(P) in real-time (SRN-3250)
- Up to 20TB using external storage option

Dimensions

Unit : mm (inch)



Technical Specifications

		SRN-6450	SRN-3250
DISPLAY			
N/W	Inputs	Up to 64CH (CIF 1920/1600fps)	Up to 32CH (CIF 960/800fps)
Camera	Resolution	VGA, 4CIF, 1.3M	
Web	Live	1 / 4 / 9 / 16 / 36 / 64, Sequence	1 / 4 / 9 / 16 / 32, Sequence
Support	Search	1CH	
PERFORMANCE			
Recording	Compression	H.264, MPEG-4, MJPEG	
	Recording Bit Rate	48Mbps (*1)	36Mbps (*1)
	Record Rate (NTSC / PAL)	Up to 320fps@1.3M Up to 1280/1152fps@4CIF Up to 1920/1600fps@2CIF, CIF	Up to 120fps@1.3M Up to 480/400fps@4CIF Up to 960/800fps@2CIF, CIF
	Mode	Manual, Schedule (Normal / Event)	
	Overwrite Modes	Continuous	
	Pre-alarm	Up to 5sec	
	Post-alarm	Up to 60sec	
Search & Playback	Search Mode	Time, Event, Calendar	
	Playback Function	REW, FWD (Depend on CMS)	
Network	Bandwidth Control	Automatic (Automatic transmission control)	
	Max. Remote Users	5 Users simultaneously	
	Protocol Support	TCP/IP, DHCP, DNS, DDNS, HTTP, ARP, ICMP, NTP, RTP/RTCP, RTSP	
	Monitoring	CMS software NET-i, Built-in web server	
Storage	Maximum Capacity	Up to 20TB using external storage option	
	RAID	Normal, RAID1, 5	Normal, RAID1
	Internal HDD	Up to 4 SATA HDDs	
	External HDD	Up to 4 expansion bay (Up to 4 HDD each)	
	NAS	Up to 4 NAS connection (CIFS / Samba)	
Security	Password Protection	2 User level	
INTERFACE			
Monitors	DOT Matrix LCD	20 x 2 Status display	
Alarm	Inputs	Screw terminal 2 inputs, NO/NC	
	Outputs	Screw terminal 2 relay outputs, NO/NC	
	Remote Notification	Notification via e-mail	
Connections	Ethernet	3 (RJ-45 100/1000 Base-T), 1 (RJ-45 100Base-T)	
	Serial Interface	RS-232C	
	USB	2 USB 2.0 ports (Firmware upgrade)	
	eSATA	4 External SATA ports	
IP Camera Protocols	Supported IP Cameras	Samsung, AXIS (*2)	
GENERAL			
Electrical	Input Voltage	100 ~ 240V AC ±10%, 50/60Hz, Auto ranging	
	Power Consumption	Max. 110W (With 1x HDD) Max. 130W (With 4x HDD)	
Environmental	Operating Temperature	+5°C ~ +40°C (+41°F ~ +104°F)	
	Operating Humidity	0% ~ 60% RH	
Mechanical	Dimensions (WxHxD)	430.0 x 88.0 x 501.0mm (16.92" x 3.46" x 19.73")	
	Weight (4x Hard Disks)	Approx. 11Kg (24.25 lb)	
	Rack Mount Kit	For mounting one unit in an EIA 19 inch rack	
Language (LCD)		English	
Certifications		FCC (Class A), cUL/UL listed, CE (Class A)	

(*1) Up to 5Mbps for each camera
(*2) VAPIX MPEG-4 Model, Some functions are limited

SRN-1670D/470D

16CH/4CH Network Video Recorder



SRN-1670D



SRN-470D

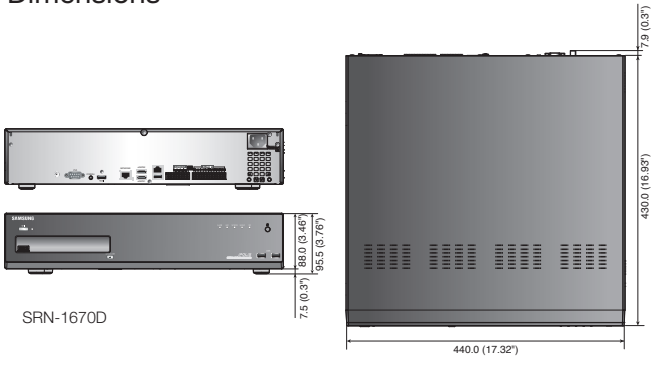
16CH/4CH | H.264 | 480fps(N) 400fps(P) | 120fps(N) 100fps(P) | HDMI 1080p

Key Features

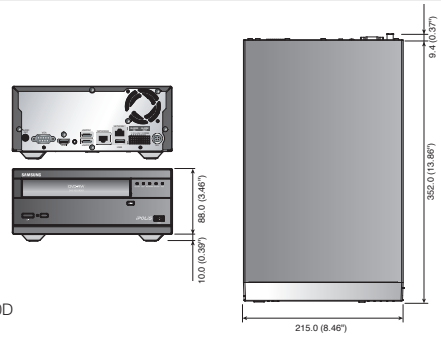
- H.264, MJPEG dual codec
- 4CIF high resolution images at 480fps(N), 400fps(P) in real-time (SRN-1670D) 4CIF high resolution images at 120fps(N), 100fps(P) in real-time (SRN-470D)
- DVD writer support
- HDMI output

Dimensions

Unit : mm (inch)



SRN-1670D



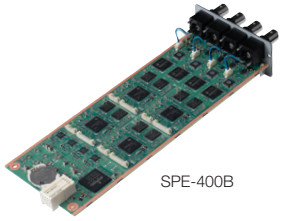
SRN-470D

Technical Specifications

		SRN-1670D	SRN-470D
DISPLAY			
N/W Camera	Inputs	Up to 16CH (4CIF 480/400fps)	Up to 4CH (4CIF 120/100fps)
	Resolution	VGA, 4CIF, 1.3M, 2M	
	Protocols	Samsung	
Live	Multi Screen Display	1 / 4 / 6 / 8 / 9 / 13 / 16, Sequence	1 / 4, Sequence
PERFORMANCE			
Operating System	Embedded	Linux	
Recording	Compression	H.264, MPEG 4, MJPEG	
	Recording Bit Rate	48Mbps	
	Record Rate / NTSC	Up to 120fps@1.3M, 2M Up to 120fps@1280 x 720 (1M) Up to 480fps@704 x 480 (4CIF)	Up to 120fps@1.3M, 2M Up to 120fps@1280 x 720 (1M) Up to 120fps@704 x 480 (4CIF)
	Record Rate / PAL	Up to 100fps@1.3M, 2M Up to 100fps@1280 x 720 (1M) Up to 400fps@704 x 576 (4CIF)	Up to 100fps@1.3M, 2M Up to 100fps@1280 x 720 (1M) Up to 100fps@704 x 576 (4CIF)
	Mode	Manual, Schedule (Continuous / Event), Event (Pre / Post)	
	Overwrite Modes	Continuous	
	Pre-alarm	Up to 30sec (5, 10, 20, 30sec)	
	Post-alarm	Up to 6hour (5, 10, 20, 30sec,1, 3, 5, 10, 20min, 1, 2, 3, 4, 5, 6hour)	
Search & Playback	Playback Speed / NTSC	Up to 30fps@1.3M, 2M Up to 60fps@1280 x 720 (1M) Up to 120fps@704 x 480 (4CIF)	Up to 30fps@1.3M, 2M Up to 30fps@1280 x 720 (1M) Up to 120fps@704 x 480 (4CIF)
	Playback Speed / PAL	Up to 25fps@1.3M, 2M Up to 50fps@1280 x 720 (1M) Up to 100fps@704 x 576 (4CIF)	Up to 25fps@1.3M, 2M Up to 25fps@1280 x 720 (1M) Up to 100fps@704 x 576 (4CIF)
	Search Mode	Date/time, Event, Back up (*All search included preview function)	
	Playback Function	Fast forward / backward, Slow forward / backward, Step forward / backward	
Network	Ethernet	Gigabit Ethernet x 2	
	Transmission Speed	Up to 48Mbps, Unlimited (48M) / 2 / 1.5 / 1Mbps / 800 / 600 / 500 / 400 / 300 / 200 / 100 / 50kbps	
	Bandwidth Control	Automatic	
	Max. Remote Users	Search 3 / Live unicast 10 / Live multicast 20	
	Protocol Support	TCP/IP, DHCP, PPPoE, SMTP, NTP, HTTP, DDNS, RTP, RTSP	
	Monitoring	NET-i viewer, Webviewer	
Storage	Internal HDD	Up to 5 SATA HDDs	Up to 1 SATA HDD
	External HDD	eSATA interface	
	DVD Writer (Back up)	Yes	
	USB (Back up)	3 USB ports	2 USB ports
	File Format (Back up)	BU (NVR player), EXE (Include player)	
Security	Password Protection	1Admin, 10 Group, 20 User per 1 group, User can be assigned authority for function	
	Data Authentication	Watermark	
INTERFACE			
Monitors	VGA	Analog RGB 1280 x 1024(60Hz) resolution	
	HDMI	720p/1080p(60Hz) resolution	
Audio	Inputs	N/A (Network audio support, up to 16CH)	N/A (Network audio support, up to 4CH)
	Output	RCA x 1	
	Compression	G.711/723/726	
Alarm	Inputs	Terminal 16 inputs, NO/NC	Terminal 4 inputs, NO/NC
	Outputs	Terminal 4 relay outputs, NO/NC	Terminal 2 relay outputs, NO/NC
	Remote Notification	Notification via e-mail	
Connections	Ethernet	2 RJ-45 10/100/1000 Base-T	
	USB	USB 2.0, 3 ports	USB 2.0, 2 ports
	eSATA	2 ports	
	Application Support	Mouse, Remote controller	
Dome Protocols	Supported PTZ Cameras	Samsung network products (Network PTZ)	
GENERAL			
Electrical	Input Voltage	100 ~ 240V AC ±10%, 50/60Hz, Auto ranging	12V DC adaptor, 4A,100 ~ 250V AC, 50/60Hz, 55W
	Power Consumption	Max. 60W (With 1x HDD)	Max. 36W (With 1x HDD)
Environmental	Operating Temperature	+0°C ~ +40°C (+32°F ~ +104°F)	
	Operating Humidity	20% ~ 85% RH	
Mechanical	Dimensions (WxHxD)	440.0 x 88.0 x 430.0mm (17.32" x 3.46" x 16.93")	215.0 x 88.0 x 352.0mm (8.46" x 3.46" x 13.86")
	Weight (2x Hard Disks)	Approx. 7.5Kg (16.53 lb)	Approx.3Kg (6.61 lb)
	Rack Mount Kit	2ea	N/A
Language		Korean, Japanese, Chinese, English, French, German, Spanish, Italian, Russian, Polish, Czech, Turkish, Netherlands, Portuguese,Swedish,Danish, Thailandais, Rumania, Serbia, Croatia, Hungarian, Greek (22 Language)	

SPE-400B/1600R

4CH Network Video Encoder
(Blade Type) / Extension Rack



SPE-400B



SPE-1600R

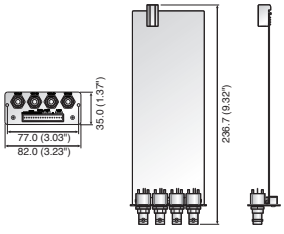
4CH | 16CH | 4CIF

Key Features

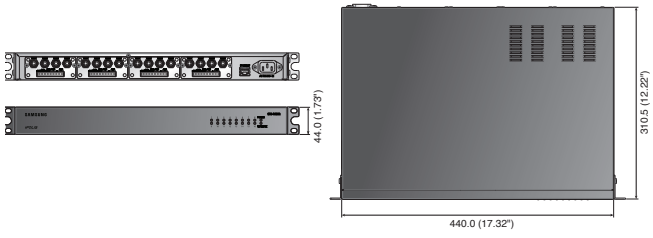
- Max. 30(25)fps at 4CIF resolution
- H.264, MPEG-4, MJPEG multiple codec
- Multiple streaming simultaneously
- 10/100/1000BASE-T
- SPE-1600R : extension rack, 4 slots for SPE-400B

Dimensions

Unit : mm (inch)



SPE-400B



SPE-1600R

Technical Specifications

	SPE-400BN	SPE-400BP
OPERATIONAL		
Video In	4 CVBS : 1.0 Vp-p / 75Ω composite, NTSC/PAL auto detection	
De-interlacing Filter	Built-in	
Event Trigger	Motion detection, Alarm input, Video loss	
Alarm I/O	Input 4ea / Output 4ea (Relay)	
Remote Control Interface	4ea RS-485 (Half duplex)	
RS-485 Protocol	Samsung-T/E, Pelco-P/D	
NETWORK		
Ethernet	RJ-45 (10/100/1000BASE-T)	
Video Compression Format	H.264, MPEG-4, MJPEG	
Resolution	704 x 480, 640 x 480, 352 x 240, 320 x 240	704 x 576, 640 x 480, 352 x 288, 320 x 240
Max. Framerate	30fps per channel	25fps per channel
Video Quality Adjustment	H.264, MPEG-4 : Compression level, Target bitrate level control MJPEG : Quality level control	
Bitrate Control Method	H.264, MPEG-4 : CBR or VBR, MJPEG : VBR	
Streaming Capability	Multiple streaming (Up to 10 profiles)	
IP	IPv4, IPv6	
Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, PPPOE FTP, SMTP, ICMP, IGMP, SNMPV1/V2C/V3(MIB-2), ARP, DNS, DDNS, ONVIF	
Security	HTTPS(SSL) login authentication, Digest login authentication IP address filtering, User access log	
Streaming Method	Unicast / Multicast	
Max. User Access	10 users at unicast mode	
ONVIF Conformance	Yes	
Web Viewer	Supported OS : Windows XP / VISTA / 7, MAC OS Supported Browser : Internet Explorer 6.0 or Higher, Firefox, Google Chrome, Apple Safari	
Central Management Software	NET-i viewer	
ENVIRONMENTAL		
Operating Temperature / Humidity	0°C ~ +40°C (+32°F ~ +104°F) / 20% ~ 80% RH	
ELECTRICAL		
Input Voltage / Current	5V DC	
Power Consumption	Max. 11W	
MECHANICAL		
Color / Material	Black / Metal	
Dimensions (WxHxD)	210.2 x 82.0 x 35.0mm (8.27" x 3.23" x 1.38")	
Weight	165.9g (0.37 lb)	

	SPE-1600R
CONNECTION	
Expansion Slots	4 Slots for SPE-400B
Connector	RJ-45 (10/100/1000BASE-T)
ENVIRONMENTAL	
Operating Temperature	0°C ~ +40°C (+32°F ~ +104°F)
Operating Humidity	20% ~ 80% RH
ELECTRICAL	
Input Voltage	100 ~ 240V AC ±10%, 50/60Hz / 0.5A
Power Consumption	Max. 50W (with SPE-400B x 4)
MECHANICAL	
Color / Material	Black / Metal
Dimensions (WxHxD)	478.0 x 310.5 x 44.0mm (18.82" x 12.22" x 1.73")
Weight	3Kg (6.61 lb)

SPE-400

4CH Network Video Encoder



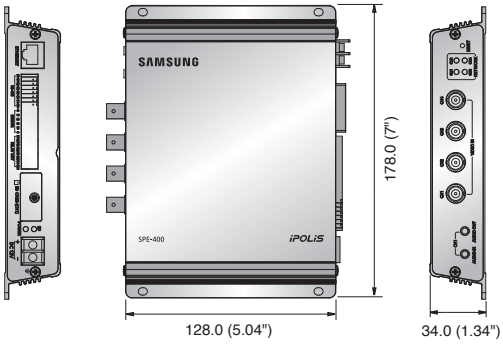
4CH | H.264 | 4CIF | Bi-directional Audio

Key Features

- Max. 30(25)fps at 4CIF resolution
- H.264, MPEG-4, MJPEG multiple codec
- Multiple streaming simultaneously
- 10/100/1000BASE-T
- SD memory, bi-directional audio support

Dimensions

Unit : mm (inch)



Technical Specifications

ONVIF

	SPE-400N	SPE-400P
OPERATIONAL		
Video In	4 CVBS : 1.0 Vp-p / 75Ω composite, NTSC/PAL auto detection	
De-interlacing Filter	Built-in	
Event Trigger	Motion detection, Alarm input, Video loss	
Alarm I/O	Input 4ea / Output 4ea (Relay)	
Remote Control Interface	4ea RS-485 (Half duplex)	
RS-485 Protocol	Samsung-T/E, Pelco-P/D	
NETWORK		
Ethernet	RJ-45 (10/100/1000BASE-T)	
Video Compression Format	H.264, MPEG-4, MJPEG	
Resolution	704 x 480, 640 x 480, 352 x 240, 320 x 240	704 x 576, 640 x 480, 352 x 288, 320 x 240
Max. Framerate	30fps per channel	25fps per channel
Video Quality Adjustment	H.264, MPEG-4 : Compression level, Target bitrate level control MJPEG : Quality level control	
Bitrate Control Method	H.264, MPEG-4 : CBR or VBR, MJPEG : VBR	
Streaming Capability	Multiple streaming (Up to 10 profiles)	
Audio I/O	1ea line in / 1ea line out (CH1 only) (SPE-400)	
Audio Compression Format	G.711 u-law	
Audio Communication	Bi-directional audio	
IP	IPv4, IPv6	
Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, PPPOE FTP, SMTP, ICMP, IGMP, SNMPV1/V2C/V3(MIB-2), ARP, DNS, DDNS, ONVIF	
Security	HTTPS(SSL) login authentication, Digest login authentication IP address filtering, User access log	
Streaming Method	Unicast / Multicast	
Max. User Access	10 users at unicast mode	
Memory Slot	SD/SDHC memory slot (CH1 only)	
ONVIF Conformance	Yes	
Web Viewer	Supported OS : Windows XP / VISTA / 7, MAC OS Supported Browser : Internet Explorer 6.0 or Higher, Firefox, Google Chrome, Apple Safari	
Central Management Software	NET-i viewer	
ENVIRONMENTAL		
Operating Temperature / Humidity	0°C ~ +40°C (+32°F ~ +104°F) / 20% ~ 80% RH	
ELECTRICAL		
Input Voltage	12V DC	
Power Consumption	Max. 15W	
MECHANICAL		
Color / Material	Silver / Metal	
Dimensions (WxHxD)	128.0 x 34.0 x 178.0mm (5.04" x 1.34" x 7")	
Weight	562g (1.29 lb)	

SPE-100

1CH Network Video Encoder



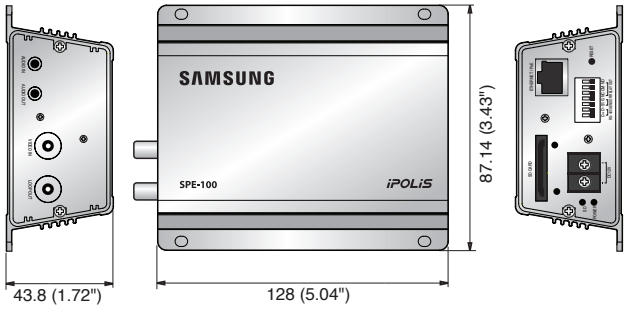
1CH | H.264 | 4CIF | Bi-directional Audio | PoE

Key Features

- Max. 30(25)fps at 4CIF resolution
- H.264, MPEG-4, MJPEG multiple codec
- Multiple streaming simultaneously
- 10/100BASE-T
- PoE, SD memory, bi-directional audio support

Dimensions

Unit : mm (inch)



Technical Specifications

	SPE-100N	SPE-100P
OPERATIONAL		
Video In	CVBS : 1.0 Vp-p / 75Ω composite, NTSC/PAL auto detection	
Video Out	CVBS : 1.0 Vp-p / 75Ω composite, Loop-out	
De-interlacing Filter	Built-in	
Event Trigger	Motion detection, Alarm input, Video loss	
Alarm I/O	Input 1ea / Output 1ea (Relay)	
Remote Control Interface	1ea RS-485 (Half duplex)	
RS-485 Protocol	Samsung-T/E, Pelco-P/D	
NETWORK		
Ethernet	RJ-45 (10/100BASE-T)	
Video Compression Format	H.264, MPEG-4, MJPEG	
Resolution	704 x 480, 640 x 480, 352 x 240, 320 x 240	704 x 576, 640 x 480, 352 x 288, 320 x 240
Max. Framerate	30fps	25fps
Video Quality Adjustment	H.264, MPEG-4 : Compression level, Target bitrate level control MJPEG : Quality level control	
Bitrate Control Method	H.264, MPEG-4 : CBR or VBR, MJPEG : VBR	
Streaming Capability	Multiple streaming (Up to 10 profiles)	
Audio I/O	1ea line in / 1ea line out	
Audio Compression Format	G.711 u-law	
Audio Communication	Bi-directional audio	
IP	IPv4, IPv6	
Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, PPPOE FTP, SMTP, ICMP, IGMP, SNMPV1/V2C/V3(MIB-2), ARP, DNS, DDNS, ONVIF	
Security	HTTPS(SSL) login authentication, Digest login authentication IP address filtering, User access log	
Streaming Method	Unicast / Multicast	
Max. User Access	10 users at unicast mode	
Memory Slot	SD/SDHC memory slot	
ONVIF Conformance	Yes	
Web Viewer	Supported OS : Windows XP / VISTA / 7, MAC OS Supported Browser : Internet Explorer 6.0 or Higher, Firefox, Google Chrome, Apple Safari	
Central Management Software	NET-i viewer	
ENVIRONMENTAL		
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / 20% ~ 80% RH	
ELECTRICAL		
Input Voltage	12V DC, PoE (IEEE802.3af)	
Power Consumption	Max. 4W	
MECHANICAL		
Color / Material	Silver / Metal	
Dimensions (WxHxD)	128.0 x 43.8 x 87.14mm (5.04" x 1.72" x 3.43")	
Weight	391g (0.86 lb)	

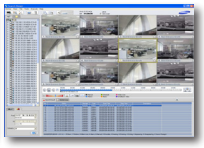
NET-i viewer

Central Management Software

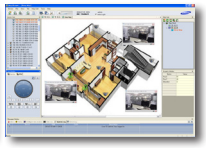




Live



Search



Map

Key Features

- Monitoring software for IP Network Samsung video surveillance products
- Up to 64 channels real-time live monitoring simultaneously in single PC (when using dual monitors)
- Support for various video format : H.264, MPEG-4, MJPEG
- Support for various audio format : G.726, G.711, G.723, PCM
- Support for various video resolution
  : megapixel (1M, 2M, 3M), 4CIF, Half D1, VGA, CIF
- Powerful E-map based monitoring
- Bi-directional audio communication
- Remote PTZ control and power area zoom (click and go control)
- Support for various search and playback options
  : date and time based search
  : event (alarm, motion, intelligent video) based search
  : normal playback, backward playback, fast/slow playback, step playback
- Event Notification of
  : highlighting in the border of video window
  : display event log message in real time
- Back up capability
  : manual back up
  : AVI, REC1, SEC format
  : CD, DVD back up
  : external storage (USB, NAS) back up
- Manual recording (1CH) for 24 hours
- Multi-level user access and authority management
- Support for multi-language user interface
  : English, French, German, Spanish, Italian, Turkish, Russian, Chinese, Japanese, Korean
- Automatic search of network cameras for quick and easy configuration
- Easy device management (configuration, firmware upgrade)
- Automatic self upgrade (connection to Samsung upgrade server)

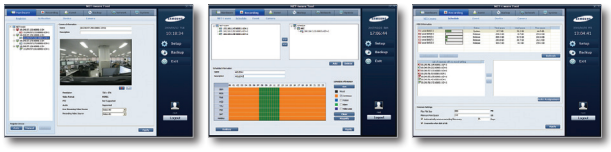
Technical Specifications

		NET-i
DEVICE		
Supported Device		Network Camera, Encoder, DVR, NVR
Max. Register Device		250
PERFORMANCE		
Video	Supported Format	H.264, MPEG-4, MJPEG
	Supported Resolution	QXGA, UXGA, SXGA, HD, SVGA, 4CIF, Half D1, VGA, CIF, QVGA
Audio	Supported Format	G.711, G.726, G.723, PCM
	Functions	Bi-directional audio, listen, transmit client microphone input to remote speakers
Live Monitoring	Multi-monitor	Live monitoring up to 16 channels simultaneously per computer monitor (Up to 32 when using dual monitors)
	Screen-split Mode	1, 4, 6, 7, 8, 9, 10, 11, 12, 16, 64 (Full-screen)
	PTZ Control	PTZ control (Pan, Tilt, Zoom, Focus, Preset) using mouse Digital zoom in/out on the image, click and go control
	Functions	Automatic device search of network cameras for quick and easy configuration, Device management (Configuration & firmware update), Snapshot / Prints image
Search & Playback	Local (Remote) Playback	Supported
	Search	Search for recordings based on DVR, NVR, Date/time based search, Event (Alarm, Motion, Intelligent video) based search
	Playback mode	Normal, Forward/Backward, Fast/Slow, Step
	PTZ Control	PTZ control (Pan, Tilt, Zoom, Focus, Preset) using mouse or joystick, Digital zoom in/out on the image
	Functions	Snapshot / Prints image
Back up	Local (Remote) Back up	Supported
	Back up	Local storage, CD/DVD, back up format (AVI, REC1, SEC)
Event Monitoring	Display	Highlighting in the border of video window, Display event log message in real time, Launches instant player
	Logs	Event (Alarm, Motion, Intelligent video, video loss), Stores user actions by time and cameras and full system operation
MAP Viewer	Display	Camera / Alarm / Sensor on the map
	Number of Map	50maps
	Supports Image	JPEG / BMP / GIF / PNG
	Monitoring	Launches instant player/viewer up to 16CH
User		Admin, Operator, User
Update		Automatic self upgrade (Connection to Samsung upgrade server)
GENERAL		
Language		Total 19 languages support. English, French, German, Spanish, Italian, Russian, Chinese, Japanese, Korean, Turkish, Polish, Czech, Serbian, Romanian, Portuguese, Dutch, Croatian, Hungarian, Greek
System Requirement (Recommended)		CPU Intel i7 above, RAM 3GB above, Video memory 1GB above, HDD 200GB above, DirectX 8.1 above. Display resolution : 1,280 x 1,024 above, OpenGL compatible, OS : Window XP Professional, Windows 2000 Professional, Windows Vista Home Basic/Premium/Ultimate, Windows 7
System Requirement (Minimum)		CPU Intel Core2Quad 2.5GHz above, RAM 3GB above, Video memory 512MB, HDD 200GB above

NET-i ware

Recording Software





Key Features

- Recording software for Samsung network cameras
  : 4 / 8 / 16 / 32 / 64 camera recording
  : recording channel extension is available by channel addition
  : live video monitoring and search/playback of recorded video by CMS software
- High performance recording
  : up to 480fps(NTSC) / 400fps(PAL) recording at 4CIF resolution
- Triplex operation performance
  : recording, live video transmission, recorded video transmission
- Support for various recording options
  : continuous recording
  : event based recording (including pre/post alarm recording)
  (motion detection, intelligent video detection, video loss, alarm signal input)
  : scheduled recording (including holiday setup)
- Event Notification
  : user defined alert sound output
  : e-mail to pre-assigned recipient
  : notification to monitoring software (CMS software)
- Event log : system, user access, back up, recording, motion, alarm, video loss, I/V
- Multiple disk allocation and distribution for stable recording
- Multi-level user access and authority management
- Support for multi-language user interface
  : English, French, German, Spanish, Italian, Turkish, Russian, Chinese, Japanese, Korean, Polish, Czech, Serbian, Romanian, Portuguese, Dutch, Croatian, Hungarian, Greek, Taiwanese
- Automatic search of network cameras for quick and easy configuration
- Automatic self upgrade (connection to Samsung upgrade server)

Technical Specifications

		SNS-SF064	SNS-SF032	SNS-SF016	SNS-SF008	Free SNS-SF004
DEVICE						
Supported Device		Samsung's Network Camera, Encoder				
Max. Register Device		64	32	16	8	4
PERFORMANCE						
Video	Supported Format	H.264, MPEG-4, MJPEG				
	Supported Resolution	QXGA, UXGA, SXGA, HD, SVGA, 4CIF, Half D1, VGA, CIF, QVGA				
Audio	Supported Format	G.711, G.726, G.723, PCM				
	Functions	Bi-directional audio, listen, transmit client microphone input to remote speakers				
Record	Performance	100Mbps				
	Record Mode	Continuous, Event (Pre/Post alarm recording), Scheduled recording				
	Quality	10 levels				
	Pre/Post Record Time	Pre : 1 ~ 16CH 60sec, 17~ 32CH 30sec, 33 ~ 64CH 15sec, Post : 1200sec				
	LOG	System, User access, Back up, Recording, Motion, Alarm, Video loss, Intelligent video				
Search & Playback	Playback	4 user x 4CH				
	Mode	Time, Event, Timeline				
Back up	Manual	DVD/CD, USB HDD, USB flash memory, Back up format : REC1, SEC				
	Schedule	NAS (Network Attached Storage), USB HDD, Back up format : REC1				
Event Monitoring	E-mail	E-mail transfer at event occurrence				
	Preset	Preset move at alarm occurrence				
Storage	Maximum Controller of HDD	24HDDs				
	Supported Device Format	e-SATA				
	Functions	Storage space assigning by each disk, Warning against lower disk space				
System	NIC Support	NIC is selectable by device connection and client connection type				
	SW Status	Device connection, Manual / Schedule recording status				
	Data Security	Login packet encryption				
	Configuration Value	Initialization / Export / Import				
	Functions	Auto power-on record				
User	User Level	User-defined function				
	Local(Remote) User	Group : 32, User : 32				
	IP Filtering for Remote User	Supported				
Update		Automatic self upgrade (Connection to Samsung upgrade server)				
GENERAL						
Language		English, French, German, Spanish, Italian, Turkish, Russian, Chinese, Japanese, Korean, Polish, Czech, Serbian, Romanian, Portuguese, Dutch, Croatian, Hungarian, Greek, Taiwanese				
System Requirement (Recommended)		CPU : Intel Core i7, RAM : 4GB Video memory : Minimum 256MB Hard Disk : Minimum 2 hard drives (SATA II and above) Microsoft .NET Framework 3.5 OS : Windows 2003 Server SP2, Windows 2008 Server				
System Requirement (Minimum)		CPU : Intel Core i3, RAM : 2GB above Video memory : 256MB, 2HDDs(SATA II) above Microsoft .NET Framework 3.5 OS : Windows XP2, Windows 2003 Server SP2, Windows Vista, Windows 2008 Server, Windows 7				

SmartViewer

DVR Management Software



Key Features

- Up to 36 videos monitoring from the connected cameras
- Support for full screen mode
- Video addition to a desired position with the drag & drop method
- Video addition to the video screen by double-clicking
- Support for sequence function (automatic screen transition)
- Favorite view & sequence of favorites
- Up to 16 videos simultaneous playback simultaneously
- Video export (viewer included)
- Search and play recorded data by event type
- User login & access privilege setup
- Save both device and smart viewer configuration as a file
- Log search (search by system, user, record or backup log)
- Automatic self upgrade (connection to Samsung upgrade server)

Technical Specifications

		SmartViewer
DEVICE		
Supported Device		DVR
Max. Register Device		1000 (Connect up to 16 devices simultaneously)
PERFORMANCE		
Video	Supported Format	H.264, MPEG-4, MJPEG
	Supported Resolution	4CIF, Half D1, VGA, CIF, QVGA
Audio	Supported Format	G.711, G.726, G.723, PCM
	Functions	Listen
Live Monitoring	Screen-split Mode	(4 : 3) 1, 4, 9, 16, 25, 36 (Full-screen) (16 : 9) 1, 6, 12, 20, 30 (Full-screen)
	PTZ Control	PTZ control (Pan, Tilt, Zoom), Focus, Iris, Preset, Autopan, Scan/Pattern, Digital Zoom in/out on the image, Area zoom
	Functions	Automatic device search of network cameras for quick and easy configuration, Device management (Configuration & firmware update), Snapshot / Prints image
	Record	1CH recording during 2hours (SEC format)
Search & Playback	Local (Remote) Playback	Supported
	Search	Search for recordings based on DVR, Date/time based search, Event (Alarm, Motion) based search
	Playback mode	Normal, Forward / Backward, Fast / Slow, Step playback
	Functions	Snapshot / Prints image
Back up	Local (Remote) Back up	Supported
	Back up	Local storage (SEC format)
Event Monitoring	Display	Highlighting in the border of video window, Display event log message in real time, Launches instant player
	Logs	Event (Alarm, Motion, Video loss), Stores user actions by time, and cameras and full system operation
User		Admin, 20 users
Update		Automatic self upgrade (Connection to Samsung upgrade server)
GENERAL		
Language		Total 19 languages support. English, French, German, Spanish, Italian, Russian, Chinese, Japanese, Korean, Turkish, Polish, Czech, Serbian, Romanian, Portuguese, Dutch, Croatian, Hungarian, Greek
System Requirement (Recommended)		CPU Intel i3 above, RAM 3GB above, VGA RAM 512GB above, HDD 200GB above, DirectX 9.0 above. Display resolution : 1,024 x 768 above, OpenGL compatible
System Requirement (Minimum)		CPU Intel Core2Duo 2.4GHz above, RAM 2GB above, VGA RAM 128MB, HDD 200GB above, DirectX 9.0 above. Display resolution : 1,024 x 768 above, OpenGL compatible OS : Window XP Professional SP2, Windows Vista Business/Ultimate, Windows 7 Professional/Ultimate/Enterprise

Supported Models

SmartViewer

DVR	SRD-1670(D)/1650(D)/870(D)/850(D)/470(D) SRD-1630(D)/1610(D)/830(D) SVR-3200/1680(C)/1660(C)/1645/960(C)/945/480 SHR-2000/5000/6000/7000/8000 series





CAMERA

Samsung Total Security Solution

Analog Selection

Type	Model	Image	Image Sensor	Min. Illumination	Lens	Angular Field of View	Resolution	D&N	WDR / BLC	S/N Ratio	OSD	MD	Privacy Masking	Power
Box	SCB-4000		1/2"	0.1Lux@F1.2 (Color) 0.01Lux@F1.2 (B/W)	N/A	N/A	600TVL (Color) 700TVL (B/W)	ICR	XDR / BLC	52dB	Yes	Yes	Yes	Dual (24V AC / 12V DC) 230V AC
	SCB-3021 SCB-3020 SCB-2020		1/3"	0.45Lux@F2.0 (Sens-up) 0.45Lux@F2.0 (Sens-up) 0.15Lux@F2.0 (Sens-up)	4.3mm (Fixed) 3.7mm (Fixed) 3.7mm(Fixed)	64.6°(H) / 46.6°(V) 64.65°(H) / 48.49°(V) 64.65°(H) / 48.49°(V)	600TVL (Color)	Electrical	WDR / BLC WDR / BLC BLC	52dB	Yes	Yes	Yes	12V DC
	SCB-3001		1/3"	0.1Lux@F1.2 (Color) 0.01Lux@F1.2 (B/W)	N/A	N/A	650TVL (Color) 700TVL (B/W)	ICR	WDR / SSDR HLC / BLC	52dB	Yes	Yes	Yes	Dual (24V AC / 12V DC) 230V AC
	SCB-3000		1/3"	0.3Lux@F1.2 (Color) 0.01Lux@F1.2 (B/W)	N/A	N/A	600TVL (Color) 700TVL (B/W)	ICR	WDR / SSDR HLC / BLC	52dB	Yes	Yes	Yes	Dual (24V AC / 12V DC) 230V AC
	SCB-2001		1/3"	0.05Lux@F1.2 (Color) 0.01Lux@F1.2 (B/W)	N/A	N/A	600TVL (Color) 700TVL (B/W)	ICR	XDR / BLC	52dB	Yes	Yes	Yes	Dual (24V AC / 12V DC) 230V AC
	SCB-2000		1/3"	0.05Lux@F1.2 (Color)	N/A	N/A	600TVL (Color)	Electrical	SSDR HLC / BLC	52dB	Yes	Yes	Yes	Dual (24V AC / 12V DC) 230V AC
	SCB-1000		1/3"	0.05Lux@F1.2 (Color)	N/A	N/A	530TVL (Color)	Electrical	BLC	50dB	Yes	Yes	Yes	24V AC 230V AC
	SUB-2000		1/3"	0.05Lux@F1.2 (Color)	N/A	N/A	600TVL (Color)	Electrical	SSDR HLC / BLC	52dB	Yes	Yes	Yes	Dual (24V AC / 12V DC) 28V AC
	SCZ-3430 SCZ-2430		1/4"	0.7Lux@F1.65 (Color) 0.07Lux@F1.65 (B/W) 0.2Lux@F1.65 (Color) 0.02Lux@F1.65 (B/W)	43x (Zoom)	61.22° ~ 1.47°(H) 47.16° ~ 1.1°(V)	600TVL (Color) 700TVL (B/W)	ICR	WDR / XDR/BLC XDR / BLC	52dB	Yes	Yes	Yes	Dual (24V AC / 12V DC)
	SCZ-3370/ SCZ-2370		1/4"	0.7Lux@F1.6 (Color) 0.07Lux@F1.6 (B/W) 0.2Lux@F1.6 (Color) 0.02Lux@F1.6 (B/W)	37x (Zoom)	55.5° ~ 1.59°(H) 42.5° ~ 1.19°(V)	600TVL (Color) 700TVL (B/W)	ICR	WDR / SSDR HLC / BLC	52dB	Yes	Yes	Yes	Dual (24V AC / 12V DC)
	SCZ-3250		1/4"	0.7Lux@F1.65 (Color) 0.07Lux@F1.65 (B/W)	25x (Zoom)	54.95° ~ 2.24°(H) 41.83° ~ 1.68°(V)	600TVL (Color) 700TVL (B/W)	ICR	WDR / XDR BLC	52dB	Yes	Yes	Yes	Dual (24V AC / 12V DC)
	SCO-2370		1/4"	0.2Lux@F1.6 (Color) 0.02Lux@F1.6 (B/W)	37x (Zoom)	55.5° ~ 1.59°(H) 42.5° ~ 1.19°(V)	600TVL (Color) 700TVL (B/W)	ICR	SSDR HLC / BLC	52dB	Yes	Yes	Yes	Dual (24V AC / 12V DC)
	SCO-2080		1/3"	0.15Lux@F1.2 (Color) 0.001Lux@F1.2 (B/W)	3.6x (V/F)	94.4° ~ 28°(H) 69.2° ~ 21°(V)	600TVL (Color) 700TVL (B/W)	ICR	SSDR HLC / BLC	52dB	Yes	Yes	Yes	Dual (24V AC / 12V DC)
	SCO-2120R		1/4"	0.2Lux@F1.67 (Color) 0Lux@F1.67 (LED on)	12x (Zoom)	51.54° ~ 4.5°(H) 39.24° ~ 3.38°(V)	600TVL (Color) 700TVL (B/W)	ICR	SSDR HLC / BLC	52dB	Yes	Yes	Yes	Dual (24V AC / 12V DC)
	SCO-2080R		1/3"	0.15Lux@F1.2 (Color) 0Lux@F1.2 (LED on)	3.6x (V/F)	94.4° ~ 28°(H) 69.2° ~ 21°(V)	600TVL (Color) 700TVL (B/W)	ICR	SSDR HLC / BLC	52dB	Yes	Yes	Yes	Dual (24V AC / 12V DC)
Dome	SCD-3081		1/3"	0.1Lux@F1.2 (Color) 0.01Lux@F1.2 (B/W)	3.9x (V/F)	94° ~ 26°(H) 67° ~ 20°(V)	650TVL (Color) 700TVL (B/W)	ICR	WDR / SSDR HLC / BLC	52dB	Yes	Yes	Yes	Dual (24V AC / 12V DC)
	SCD-3080/ SCD-2080		1/3"	0.3Lux@F1.2 (Color) 0.01Lux@F1.2 (B/W) 0.15Lux@F1.2 (Color) 0.001Lux@F1.2 (B/W)	3.9x (V/F) 3.6x (V/F)	94° ~ 26°(H) 67° ~ 20°(V) 94.4° ~ 28°(H) 69.2° ~ 21°(V)	600TVL (Color) 700TVL (B/W)	ICR	WDR / SSDR HLC / BLC SSDR HLC / BLC	52dB	Yes	Yes	Yes	Dual (24V AC / 12V DC)
	SCD-2080E/ SCD-2060E		1/3"	0.15Lux@F1.2 (Color) 0.001Lux@F1.2 (B/W)	3.6x (V/F) 2.4x (V/F)	94.4° ~ 28°(H) 69.2° ~ 21°(V) 103.4° ~ 46.6°(H) 77.6° ~ 35.1°(V)	600TVL (Color) 700TVL (B/W)	Electrical	SSDR HLC / BLC	52dB	Yes	Yes	Yes	Dual (24V AC / 12V DC)
	SCD-2080R		1/3"	0.15Lux@F1.2 (Color) 0Lux@F1.2 (LED on)	3.6x (V/F)	94.4° ~ 28°(H) 69.2° ~ 21°(V)	600TVL (Color) 700TVL (B/W)	ICR	SSDR HLC / BLC	52dB	Yes	Yes	Yes	12V DC
	SCD-2021		1/3"	0.15Lux@F1.2 (Color)	3.7/8mm (Fixed)	71°(H) / 52°(V) 33°(H) / 25°(V)	600TVL (Color)	Electrical	SSDR	52dB	Yes	Yes	Yes	Dual (24V AC / 12V DC)
	SCD-2020R		1/3"	0.15Lux@F1.2 (Color) 0Lux@F1.2 (LED on)	3.6mm (Fixed)	66°(H) / 49°(V)	600TVL (Color) 700TVL (B/W)	ICR	SSDR HLC / BLC	52dB	Yes	Yes	Yes	12V DC
	SCD-2010		1/3"	0.04Lux@F1.2 (Color)	3/6mm (Fixed)	95°(H) / 71°(V) 46°(H) / 34°(V)	600TVL (Color) 700TVL (B/W)	Electrical	SSDR HLC / BLC	52dB	Yes	Yes	Yes	12V DC
	SCD-2010F		1/3"	0.04Lux@F1.2 (Sens-up)	3mm (Fixed)	89.5°(H) / 67.2°(V)	600TVL (Color)	Electrical	SSDR HLC / BLC	52dB	Yes	Yes	Yes	12V DC
	SUD-3080/ 3080F		1/3"	0.3Lux@F1.2 (Color) 0.01Lux@F1.2 (B/W)	3.9x (V/F)	102° ~ 28°(H) 73° ~ 21°(V)	600TVL (Color) 700TVL (B/W)	ICR	WDR / SSDR HLC / BLC	52dB	Yes	Yes	Yes	28V AC 24V AC, 12V DC
	SUD-2080/ 2080F		1/3"	0.15Lux@F1.2 (Color) 0.001Lux@F1.2 (B/W)	3.6x (V/F)	94.4° ~ 28°(H) 69.2° ~ 21°(V)	600TVL (Color) 700TVL (B/W)	ICR	SSDR HLC / BLC	52dB	Yes	Yes	Yes	28V AC 24V AC, 12V DC
	SCV-3120		1/4"	0.7Lux@F1.65 (Color) 0.07Lux@F1.65 (B/W	12x (Zoom)	54.44° ~ 4.64°(H) 41.42° ~ 3.52°(V)	600TVL (Color) 700TVL (B/W)	ICR	WDR / XDR BLC	52dB	Yes	Yes	Yes	Dual (24V AC / 12V DC)

Analog Selection

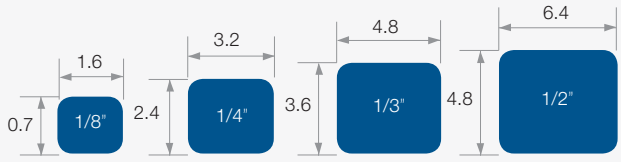
Type	Model	Image	Image Sensor	Min. Illumination	Lens	Angular Field of View	Resolution	D&N	WDR / BLC	S/N Ratio	OSD	MD	Privacy Masking	Power
Dome	SCV-2120		1/4"	0.2Lux@F1.67 (Color) 0.02Lux@F1.67 (B/W)	12x (Zoom)	51.54° ~ 4.5°(H) 39.24° ~ 3.38°(V)	600TVL (Color) 700TVL (B/W)	ICR	SSDR HLC / BLC	52dB	Yes	Yes	Yes	Dual (24V AC / 12V DC)
	SCV-3080/ SCV-2080		1/3"	0.3Lux@F1.2 (Color) 0.01Lux@F1.2 (B/W) 0.15Lux@F1.2 (Color) 0.001Lux@F1.2 (B/W)	3.9x (V/F) 3.6x (V/F)	102° ~ 28°(H) 73° ~ 21°(V) 94.4° ~ 28°(H) 69.2° ~ 21°(V)	600TVL (Color) 700TVL (B/W)	ICR	WDR / SSDR HLC / BLC SSDR HLC / BLC	52dB	Yes	Yes	Yes	Dual (24V AC / 12V DC)
	SCV-2010F		1/3"	0.04Lux@F1.2 (Sens-up)	3mm (Fixed)	89.5°(H) / 67.2°(V)	600TVL (Color)	Electrical	SSDR HLC / BLC	52dB	Yes	Yes	Yes	12V DC
	SCV-2080R		1/3"	0.15Lux@F1.2 (Color) 0Lux@F1.2 (LED on)	3.6x (V/F)	94.4° ~ 28°(H) 69.2° ~ 21°(V)	600TVL (Color) 700TVL (B/W)	ICR	SSDR HLC / BLC	52dB	Yes	Yes	Yes	Dual (24V AC / 12V DC)
	SCV-2081R		1/3"	0.15Lux@F1.2 (Color) 0Lux@F1.2 (LED on)	3.6x (V/F)	94.4° ~ 28°(H) 69.2° ~ 21°(V)	600TVL (Color) 700TVL (B/W)	ICR	SSDR HLC / BLC	52dB	Yes	Yes	Yes	Dual (24V AC / 12V DC)
	SCP-3120/ 3120V/3120VH		1/4"	0.7Lux@F1.65 (Color) 0.07Lux@F1.65 (B/W)	12x (Zoom)	54.44° ~ 4.64°(H) 41.42° ~ 3.52°(V)	600TVL (Color) 700TVL (B/W)	ICR	WDR / XDR BLC	52dB	Yes	Yes	Yes	24V AC
	SCP-3430/ 2430		1/4"	0.7Lux@F1.65 (Color) 0.07Lux@F1.65 (B/W) 0.2Lux@F1.65 (Color) 0.02Lux@F1.65 (B/W)	43x (Zoom)	61.22° ~ 1.47°(H) 47.16° ~ 1.1°(V)	600TVL (Color) 700TVL (B/W)	ICR	WDR /XDR BLC XDR / BLC	52dB	Yes	Yes	Yes	24V AC
PTZ	SCP-3430H/ SCP-2430H		1/4"	0.7Lux@F1.65 (Color) 0.07Lux@F1.65 (B/W) 0.2Lux@F1.65 (Color) 0.02Lux@F1.65 (B/W)	43x (Zoom)	61.22° ~ 1.47°(H) 47.16° ~ 1.1°(V)	600TVL (Color) 700TVL (B/W)	ICR	WDR /XDR BLC XDR / BLC	52dB	Yes	Yes	Yes	24V AC
	SCP-2370H/ 2370		1/4"	0.2Lux@F1.6 (Color) 0.02Lux@F1.6 (B/W)	37x (Zoom)	55.5° ~ 1.59°(H) 42.5° ~ 1.19°(V)	600TVL (Color) 700TVL (B/W)	ICR	SSDR HLC / BLC	52dB	Yes	Yes	Yes	24V AC
	SCP-3370TH/ 3370		1/4"	0.7Lux@F1.6 (Color) 0.07Lux@F1.6 (B/W)	37x (Zoom)	55.5° ~ 1.59°(H) 42.5° ~ 1.19°(V)	600TVL (Color) 700TVL (B/W)	ICR	WDR / SSDR HLC / BLC	52dB	Yes	Yes	Yes	24V AC
	SCP-2270H/ 2270		1/4"	0.2Lux@F1.6 (Color) 0.02Lux@F1.6 (B/W)	27x (Zoom)	55.5° ~ 2.24°(H) 42.5° ~ 1.79°(V)	600TVL (Color) 700TVL (B/W)	ICR	SSDR HLC / BLC	52dB	Yes	Yes	Yes	24V AC
	SCP-2120		1/4"	0.2Lux@F1.67 (Color) 0.004Lux@F1.67 (B/W)	12x (Zoom)	51.54° ~ 4.49°(H) 39.28° ~ 3.39°(V)	600TVL (Color) 700TVL (B/W)	ICR	SSDR HLC / BLC	52dB	Yes	Yes	Yes	24V AC
Thermal	SCB-9051/ 9050		QVGA	0Lux	50mm (Fixed) 14mm (Fixed)	8.6° ~ 6.5° 30.1° ~ 22.8°	320 x 240	N/A	N/A	N/A	Yes	N/A	N/A	24V AC
	SCU-2370		1/4"	0.2Lux@F1.65 (Color) 0.02Lux@F1.65 (B/W)	37x (Zoom)	55.5° ~ 1.59°(H) 42.5° ~ 1.19°(V)	600TVL (Color) 700TVL (B/W)	ICR	SSDR HLC / BLC	52dB	Yes	Yes	Yes	24V AC
	SCU-9051		QVGA	0Lux	50mm (Fixed)	8.6° ~ 6.5°	320 x 240	N/A	N/A	N/A	Yes	N/A	N/A	24V AC
	SCU-VAC		1/4"	0.2Lux@F1.65 (Color) 0.02Lux@F1.65 (B/W)	37x (Zoom)	55.5° ~ 1.59°(H) 42.5° ~ 1.19°(V)	600TVL (Color) 700TVL (B/W)	ICR	SSDR HLC / BLC	52dB	Yes	Yes	Yes	24V AC

Analog Terms & Features

CCD (Charged Coupled Device)

A CCD is a solid state semiconductor imaging device often referred to as an integrated circuit, chip or "imager". Solid state cameras are sometimes referred to as CCD cameras.

Format sizes in mm



Sensitivity

Sensitivity refers to a camera's ability to reproduce a given scene with a given amount of light. Usually expressed in footcandles or lux. The sensitivity of a CCD camera, broadly speaking, is a measure of its performance in low light conditions.

LIGHTING	LUX LEVEL
Unobstructed sun	100,000
Sun with light cloud	70,000
Sun with heavy cloud	20,000
Home / office lighting	100-1000
Sunrise / sunset	500
Street lighting	1-10
Twilight	4
Full moon	0.2
Quarter moon	0.02
Overcast moon	0.007
Clear night sky	0.001
Average starlight	0.0007
Overcast night sky	0.00005

WDR (Wide Dynamic Range)

Wide Dynamic Range (WDR) technology helps to get detailed information from the dark part of the image without saturation from the bright part. There is no limitation of zone area with the WDR function and the color image is crisper than when using traditional BLC functions. WDR combines two fields which are high shutter speed exposure in bright areas and low shutter speed exposure in dark areas into one composite image.



WDR Off



WDR On

Pixel

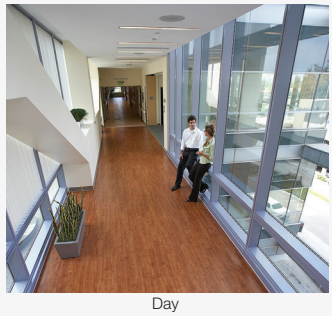
Short for Picture Element. A pixel is the smallest area of a television picture capable of being delineated by an electrical signal passed through the system. The number of picture elements (pixels) in a complete picture, and their geometric characteristics of vertical height and horizontal width, provide information on the total amount of detail which the raster can display and on the sharpness of the detail, respectively.

Day & Night

Day & Night refers to a function which helps the camera adapt to low lighting conditions. In low light, this function switches the camera from color to monochrome automatically, allowing for much greater light sensitivity.

ICR (Infrared Cutfilter Removal)

The IR cut filter is on when the camera is operating as a color camera for precise color reproduction. With ICR, the filter is removed which allows for much greater light sensitivity in monochrome mode.



Day



Night

BLC (Back Light Compensation)

In CCTV applications it is common to have a bright light source behind the subject of interest. A person at an ATM or entering through an outside door are common examples. Without compensation, these subjects would normally appear as dark silhouettes. The aim of backlight compensation technology is to allow the camera to find the best picture conditions and automatically give the necessary light level compensation, so that users can obtain good identification of a subject in the foreground when there is a bright light source in the background. BLC works by enhancing specific zones in the picture which usually contains the subject of interest. WDR is a more effective alternative to BLC that does not depend on the subject being in a specific zone.



BLC Off



BLC On

Analog Terms & Features

HLC (Highlight Compensation Capability)

HLC (Highlight Compensation) is Samsung's BLC technology that detects if any strong spots of light exist and compensates for the area as needed to produce clearer images. Highlight Compensation is especially effective for reading the number-plates of cars in streets or parking lots at night.



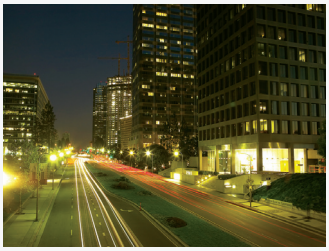
HLC Off



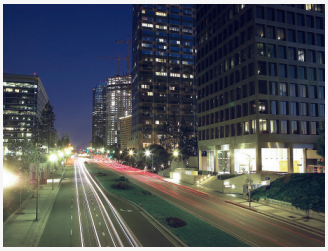
HLC On

Automatic White Balance

Accurate color reproduction requires that the camera compensate for the color temperature of the light source. Automatic white balance is a feature that the camera uses to do color compensation. For indoor applications incandescent, fluorescent, and quartz lighting all have different color temperatures. Outdoors there is sunlight, mercury vapor, and low pressure sodium lighting, all of which have drastically different color temperatures. In many applications the color temperature can change as lighting conditions change. Samsung cameras offer white balance functions that can be tailored to provide superior color reproduction over a wide range of color temperature conditions.



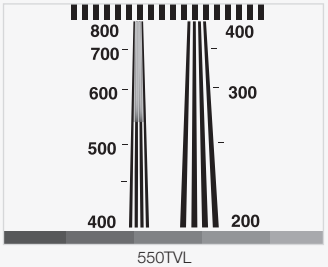
Normal



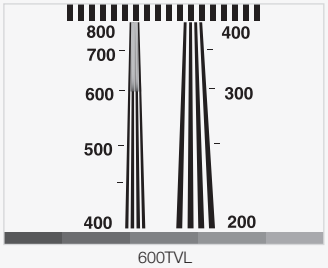
Automatic White Balance

Resolution

The ability of the camera to resolve fine detail can make the difference in obtaining evidence or not. Resolution is measured by a chart with converging lines of higher and higher density. The resolution is the line density where the camera is no longer able to reproduce individual lines. For this reason, resolution is expressed in terms of TV lines (TVL). The higher this number is, the better the picture.



550TVL



600TVL

STANDARD TEST CHART

MD (Motion Detection)

This is a function where the camera analyzes successive frames of video and can detect movement in the scene. Units that use MD utilize various types of thresholds that can be programmed by the user to prevent or reduce false alarms. If the type or level of motion crosses these thresholds, the unit can automatically react in a way that benefits the system. In cameras with MD, a visible alert message can appear on the screen. In some models, a contact output from the camera can be used to switch a picture to a particular monitor, calling the attention of the operator.



Motion Detected

Privacy Masking

This function allows for areas in the picture to be masked so that they cannot be viewed or recorded. The size and position of these masks are programmable. This feature is useful in applications where a camera can see into areas that are not relevant to the security purposes for the camera and the owner does not want to be subject to privacy invasion claims.



Auto Tracking

The advanced auto tracking feature provides high-accuracy detection of moving objects in targeted areas by identifying the characteristics of the subject including color, shape and contrast using advanced algorithms. This feature will automatically pan, tilt and optically zoom to identify a subject clearly. This allows the operator to easily identify and lock a subject on the screen at a push of a button.



Auto Digital Flip

The auto digital flip feature allows for a more convenient way to view object that pass directly below the camera. As the camera pans in the vertical direction to follow the object, the digital flip feature will automatically flip the image 180° as the object passes beneath the camera, and continue to follow the subject without delay.

Smart Zoom

The advanced smart zoom feature provides a quick way to automatically zoom into a defined area where motion is detected. This allows the operator to identify a subject that is in a restricted area quickly.

Dual Power

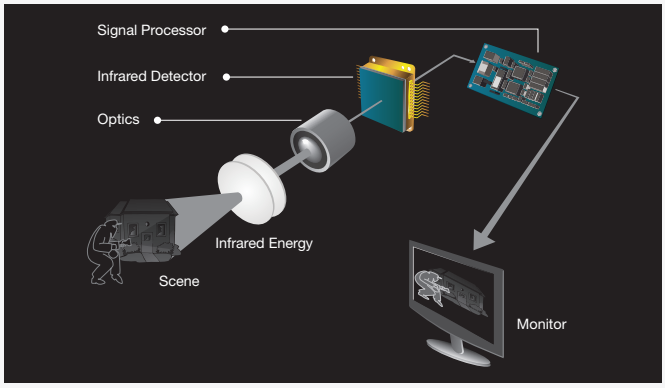
Units with dual power accept either 24V AC or 12V DC power sources and will automatically switch to the appropriate mode upon receiving power.

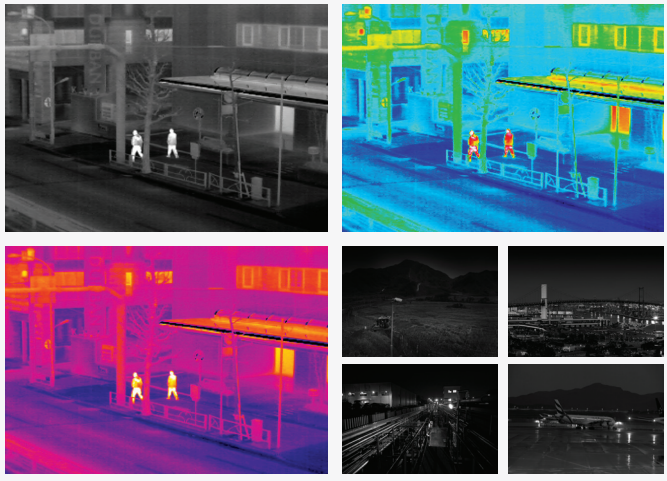
Analog Terms & Features

Thermal Camera

Thermal Night Vision Camera

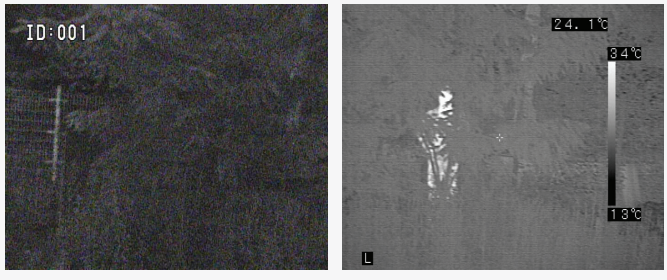
The Thermal Night Vision Camera is an advanced camera that detects differences in the infrared energy of objects and the background, converts them into electric signals, and produces digital images.





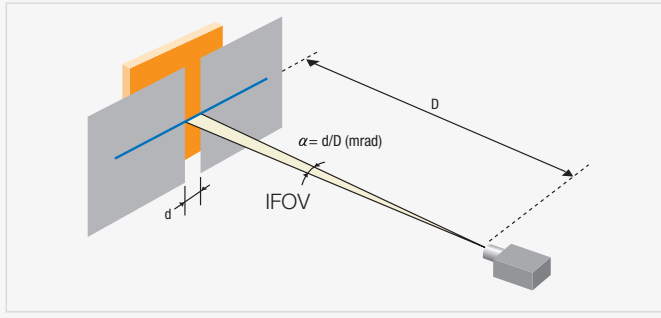
Thermal Cameras Vs. Visible Cameras

With a thermal camera, it is possible to detect subjects up to 1Km (0.6miles) away in total darkness and through rain, fog or heavy smoke. This is very difficult with a visible light camera.



IFOV - Instantaneous Field of View (Spatial Resolution)

A measurement of a sensor's intrinsic field of view corresponding to the amount of light that a sensor can detect at an instant : the smaller it is, the fuller an image looks with longer detection distance.



IFOV = d/D mrad
(ex) IFOV=23.5μm/14mm=1.68mrad

High Temperature Resolving Power (NETD)

NETD (Noise Equivalent Temperature Difference) refers to the minimum temperature difference that can be detected by the camera. The smaller this number, the more sensitive the camera is.



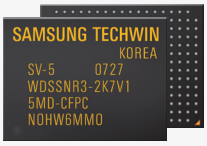
Color Pattern

The color pattern mode converts grey levels in the picture into false colors that represent temperature levels. This makes a warm object stand out against a colder background.

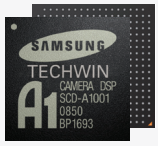


Core Technologies

SV-V / A1, Advanced DSP



SV-V DSP Chip



A1 DSP Chip

Super High Resolution

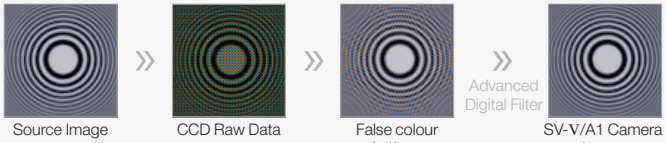
SV-V/A1 camera technology eliminates false colour artifacts (Moire) by utilizing a special optical low pass filter and is able to resolve a horizontal resolution of 600TV lines, by means of 12 Bit A/D serial signal processing coupled with image element enhancement technology. Additionally, the implementation of a 3 line processing algorithm to prevent noise under low illumination applications, directional adaptive filtering and adjustment of aperture gain by luminance level combine to provide a more vivid and clear image.



Conventional Camera



SV-V/A1 Camera



Source Image | CCD Raw Data | False colour Artifacts | SV-V/A1 Camera Image

Virtual Progressive Scan (VPS)

SV-V/A1 camera models featuring WDR functions generate images using Double Scan CCD technology and these cameras provide VPS (Virtual Progressive Scan) operation which can utilize either Interlace or Progressive scanning methods. This VPS is unique to Samsung and ensures the edges of moving objects are clearly defined. Applications for Samsung cameras utilizing this technology include highway and Automatic Number Plate Recognition (ANPR) ANPR projects. When used with LCD monitors offering progressive scan operation, Samsung VPS produces visibly superior images to non-VPS cameras. The problems of the blurred edges resulting from delays in even/odd field image scanning, are eliminated when VPS technology is used with a network product (IP camera or encoder).


Interlace Transmission (Delayed edge)


VPS Transmission (Clear edge)

SSNR (Samsung Super Noise Reduction) / Motion Adaptive DNR

The SSNR/DNR function eliminates noise thus generating a distinct and clear image. SV-V/A1 technology utilizes both an adaptive 2D filter which reduces noise of moving parts and an adaptive 3D filter which reduces noise of fixed parts. These filters are combined with Samsung's DNIe technology which is found in Samsung CCTV monitors. The result is that SV-V/A1 camera series support SSNR/Motion Adaptive DNR function that removes noise (Fixed Pattern, Random, etc.) and greatly reduces motion blur.


SSNR/DNR Off

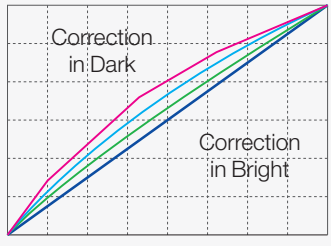

SSNR/DNR On

SSDR (Samsung Super Dynamic Range) / eXtended Dynamic Range (XDR)

Under strongly backlit or high contrast scenes, cameras generally produce images which reproduce detail in the brighter area of the scene. (fig1) Consequently, detail is often lost in the darker areas of the scene. Samsung SV-V/A1 cameras provide SSDR/XDR technology to increase the level of visible detail in the dark areas, whilst maintaining image clarity and detail in the brighter portions of the image. (fig2)


fig1 - SSDR/XDR Off


fig2 - SSDR/XDR On



Core Technologies

SV-V / A1, Advanced DSP

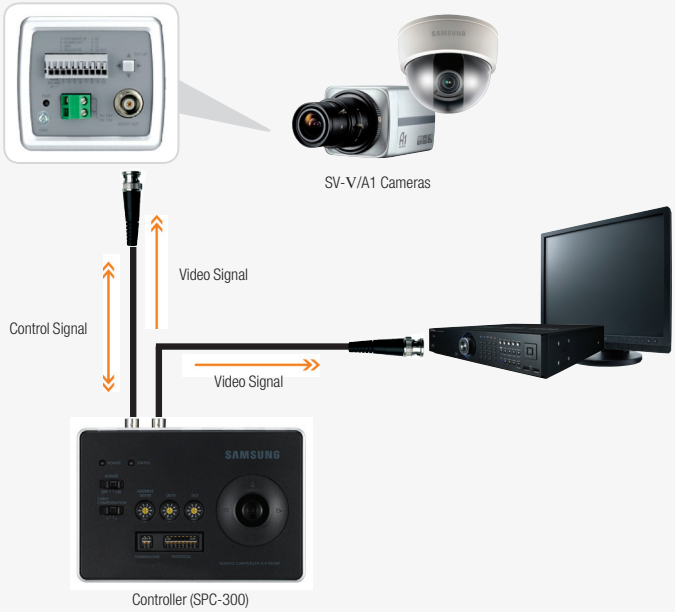
Intelligent Video Content Analysis

The Samsung SV-V/A1 series of cameras, also provide built-in capability for video content analysis. Operational modes include :

- Fixed : Senses objects that appear and remain in a scene for longer than a pre-determined period of time.
- Moved : Detects objects removed from a scene
- Fence : Provides virtual electronic area [Area mode] and directional line [Line mode] and generates an alarm in the event of a breach of the area or a cross of the directional line.
- Tracking : Tracks an object through a scene and generates an alarm in the event of abnormal directional changes.
- Counting : Provides the counting numbers of the objects pre-determined direction. (SV-V)

Camera Control Via Coaxial Cable

The Samsung SV-V/A1 series cameras offer camera control via the video coaxial cable. This function provides access to the camera settings menu without connecting any other control lines to the camera. This technology allows for camera set up (with the exception of lens focus) to be performed remotely, thus simplifying the installation process and offering remote adjustment in real time.



WDR (Wide Dynamic Range)

The SV-V/A1 DSP technology compensates for backlight problems 128 times more effectively than standard BLC, by applying an optimum fusion ratio when combining the high speed shutter used in bright areas and the low speed shutter used in dark areas. It carries out a precise analysis on the picture to get detailed information from the dark areas without any saturation from the bright areas.


WDR Off


WDR On

DIS (Digital Image Stabilization)

SV-V/A1 cameras have the capability of digitally compensating for camera shake commonly caused by wind or air handling equipment. Removing even minor vibration in the picture results in significant savings in DVR storage space.


DIS Off


DIS On

Privacy Zone

Multiple "privacy zone" can be set if you desire to block viewing of specific areas in the picture. Some models allow for programming polygonal (odd shaped) zones as opposed to rectangles.


Privacy zone Off


Privacy zone On

Core Technologies

W-V, the DSP that redefines performance for video security

Samsung Techwin's 5th generation DSP is the engine that brings out the performance of this camera. This unique DSP provides features such as advanced 2D/3D noise filtering and digital image stabilization which work together to reduce storage requirements by as much as 70% over conventional cameras. In addition, the W-V DSP also provides advanced features such as Day & Night operation and frame integration to enhance low light performance along with features such as motion detection, privacy masking, highlight compensation, and image flip. These features are all programmable via onscreen menus that can be remotely set up from the remote control center.



W-V DSP Chip

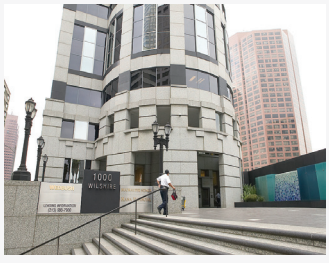


High quality color images of 600TV lines

The W-V camera delivers high quality 600TV lines images utilizing a unique image processing technology found only in Samsung Techwin's 5th generation DSP.



Conventional Camera



W-V Camera

Day & Night function

The W-V utilizes Day & Night control to enhance performance in low lighting conditions. The W-V cameras can deliver outstanding images around the clock in challenging lighting conditions.



Conventional Camera



W-V Camera

SSDR (Samsung Super Dynamic Range)

SSDR (Samsung Super Dynamic Range) automatically increases dark photoelectric signals while retaining bright signals; dark spots in images become more visible for accurate monitoring.



Conventional Camera



W-V Camera

2D/3D noise filter SSNRIII for clear low light images

Managing noise is the key to achieving great results in low light. The advanced 2D/3D noise filtering system in the W-V allows it to provide good color in much lower lighting levels. Reducing noise in the picture also reduces the amount of storage space required to record the video on a DVR.



Conventional Camera



W-V Camera

DIS (Digital Image Stabilization)

DIS (Digital Image Stabilization) removes image jitter that is caused by vibrations in the building. This stabilization greatly reduces the amount of hard disk space required to store images on a DVR.

Convenient Multi-language On Screen Display (OSD)

Advanced features can be easily optimized with the use of the on-screen display menus that are available in six different languages. These menus can be accessed locally at the camera via pushbuttons or remotely from an optional low cost hand-held controller, or from the monitoring location center via RS-485.

SCB-4000

1/2" High Resolution Low Light Camera



Lens not included

600TVL | 0.1Lux | XDR | D&N ICR | DUAL POWER

Key Features

- High resolution of 600TV lines (Color), 700TV lines (B/W)
- Min. illumination 0.1Lux@F1.2 (Color), 0.01Lux (B/W)
- True Day / Night (ICR), Intelligent video, MD, DNR (3D+2D)
- Coaxial control (CCVC), RS-485
- Dual power, 24V AC & 12V DC
- Available in 230V AC (PAL) Model PH

Available Lenses / Accessories (optional):


SLA-612DN


SLA-880


STB-4150V


SHB-4300H1


SHB-4200/SHB-4200H


STB-400

USE WITH

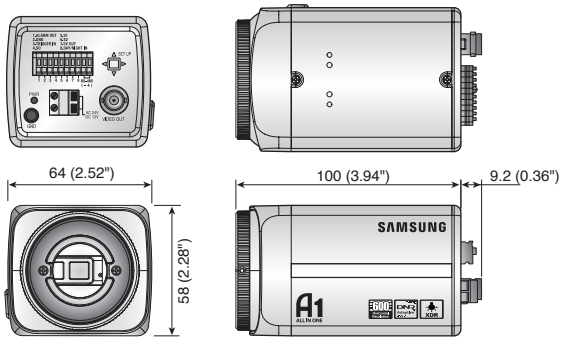

STH-500

OR


STH-200

Dimensions

Unit : mm (inch)



Technical Specifications

	SCB-4000N	SCB-4000P	SCB-4000PH
VIDEO			
Imaging Device	1/2" Ex-view HAD CCD		
Total Pixels	811(H) x 508(V)	795(H) x 596(V)	
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)	
Scanning System	2 : 1 Interlace		
Synchronization	Internal / Line lock		
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz	
Horizontal Resolution	Color : 600TV lines, B/W : 700TV lines		
Min. Illumination	Color : 0.1Lux@F1.2 (50IRE), 0.0002Lux (Sens-up, 512x) B/W : 0.01Lux@F1.2 (50IRE), 0.00002Lux (Sens-up, 512x)		
S / N Ratio	52dB (AGC off, Weight on)		
Video Output	CVBS : 1.0 Vp-p / 75Ω composite		
LENS			
Lens Type	Manual / Auto iris (Video / DC)		
Mount Type	C / CS		
OPERATIONAL			
On Screen Display	English, Japanese, Spanish, French, Portuguese, Taiwanese, Korean	English, French, German, Spanish, Italian, Chinese, Russian, Polish, Czech, Romanian, Serbian, Swedish, Danish, Turkish, Portuguese	
Camera Title	Off / On (Displayed 54 characters)		
Day & Night	Day / Night / Auto / Ext		
Backlight Compensation	Off / On (Area setting)		
Contrast Enhancement	XDR (Off / Low / Mid / High)		
Digital Noise Reduction	Adaptive 3D+2D (Off / Low / Mid / High / User)		
Digital Image Stabilization	Off / On		
Motion Detection	Off / Tracking / Detection		
Privacy Masking	Off / On (12 programmable zones with polygonal masking)		
Sens-up (Frame Integration)	2x ~ 512x		
Gain Control	Off / On		
White Balance	ATW1 / ATW2 / AWC / 3200K / 5600K		
Electronic Shutter Speed	1/60 ~ 1/200,000sec		
Digital Zoom	Off / On (1x ~ 16x)		
Flip	Vertical / Horizontal		
Profile	Standard / ITS / Backlight / Day & Night / Gaming / Custom		
Intelligent Video	Fixed / Moved, Fence (Line, Area)		
PIP	Off / On		
Alarm	1 Out		
Communication	Coaxial control, RS-485		
Protocol	Coax : CCVC RS-485 : Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon, GE		
ENVIRONMENTAL			
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / Less than 90% RH		
ELECTRICAL			
Input Voltage	Dual (24V AC & 12V DC ±10%)		230V AC ±10%
Power Consumption	Max. 3.0W		Max. 4.1W
MECHANICAL			
Color / Material	Silver / Aluminum, Steel		
Dimensions (WxHxD)	64.0 x 58.0 x 100.0mm (2.52" x 2.28" x 3.94")		
Weight	305g (0.67 lb)		395g (0.87 lb)

SCB-3021/3020/2020

1/3" High Resolution ATM Camera



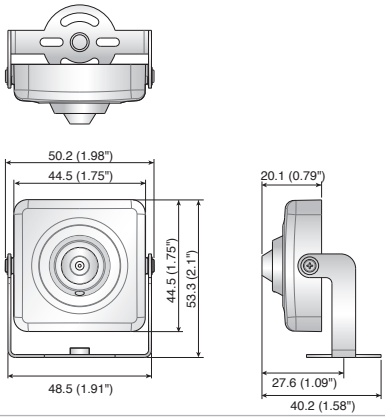


Key Features

- High resolution of 600TV lines
- Min. illumination 0.45Lux@F2.0 (Color) : SCB-3021/3020
  0.15Lux@F2.0 (Color) : SCB-2020
- Built-in 4.3mm fixed lens : SCB-3021
  3.7mm fixed lens : SCB-3020/2020
- WDR, VPS : SCB-3021/3020, Intelligent video, MD, DNR
- Coax : CCVC, 12V DC

Dimensions

Unit : mm (inch)



Technical Specifications

	SCB-3021N/3020N/2020N	SCB-3021P/3020P/2020P
VIDEO		
Imaging Device	1/3" Super HAD CCD (Double scan) : SCB-3020, 1/3" Super HAD CCD : SCB-2020	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace	
Synchronization	Internal / Line lock (L-Pulse input)	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 600TV lines	
Min. Illumination	Color : 0.45Lux@F2.0 (50IRE, Sens-up 2x) : SCB-3021/3020 0.15Lux@F2.0 (50IRE, Sens-up 2x) : SCB-2020	
S / N Ratio	52dB (AGC off, Weight on)	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
LENS		
Focal Length (Zoom Ratio)	4.3mm : SCB-3021, 3.7mm : SCB-3020/2020	
Max. Aperture Ratio	F2.0	
Angular Field of View	Horiz: 64.6° / Vert: 46.6° / Diag: 88.4°: SCB-3021 Horiz: 64.65° / Vert: 48.49° / Diag: 80.81°: SCB-3020/2020	
Min. Object Distance	0.4m (1.31ft)	
OPERATIONAL		
On Screen Display	Multi-language support English, Japanese, Spanish, French, Portuguese, Taiwanese, Korean	Multi-language support English, French, German, Spanish, Italian, Chinese, Russian, Polish, Czech, Romanian, Serbian, Swedish, Danish, Turkish, Portuguese
Camera Title	Off / On (Displayed 54 characters)	
Day & Night	Day / Night / Auto	
Backlight Compensation	Off / On	
Wide Dynamic Range	128x (52dB) : SCB-3021/3020	160x (52dB) : SCB-3021/3020
Contrast Enhancement	Off / Low / Mid / High	
Digital Noise Reduction	Adaptive 3D+2D (Off / Low / Mid / High / User)	
Digital Image Stabilization	Off / On	
Motion Detection	Off / Tracking / Detection	
Privacy Masking	Off / On (12 programmable zones, polygonal type)	
Sens-up (Frame Integration)	2x ~ 512x	
Gain Control	Off / On	
White Balance	ATW1 / ATW2 / AWC (Manual) / 3200K / 5600K	
Electronic Shutter Speed	1/60 ~ 1/200,000sec	1/50 ~ 1/200,000sec
Digital Zoom	Off / On (1x ~ 16x)	
Flip	Vertical / Horizontal	
Profile	Standard / ITS / Backlight / Day & Night / Gaming / Custom	
VPS	Off / On : SCB-3021/3020	
Intelligent Video	Fixed / Moved, Fence (Line, Area)	
PIP	Off / On	
Alarm	1 Output	
Communication	Coaxial control	
Protocol	Coax : CCVC	
ENVIRONMENTAL		
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / Less than 90% RH	
ELECTRICAL		
Input Voltage / Current	12V DC ±10%	
Power Consumption	Max. 2.0W	
MECHANICAL		
Color / Material	Black / Aluminum	
Dimensions (WxHxD)	50.2 x 40.2 x 53.3mm (1.98" x 1.58" x 2.1")	
Weight	105g (0.23 lb)	

SCB-3001

1/3" Premium Resolution WDR Camera



Lens not included

650TVL | 0.1Lux | WDR 128x 160x | D&N ICR | DUAL POWER

Key Features

- High resolution of 650TV lines (Color), 700TV lines (B/W)
- Min. illumination 0.1Lux@F1.2 (Color), 0.01Lux (B/W)
- WDR, VPS, True Day / Night (ICR), Intelligent video, MD
- SSNRIII (3D+2D), Coaxial control (Pelco C), RS-485
- Dual power, 24V AC & 12V DC
- Available in 230V AC (PAL) : SCB-3001PH

Available Lenses / Accessories (optional):



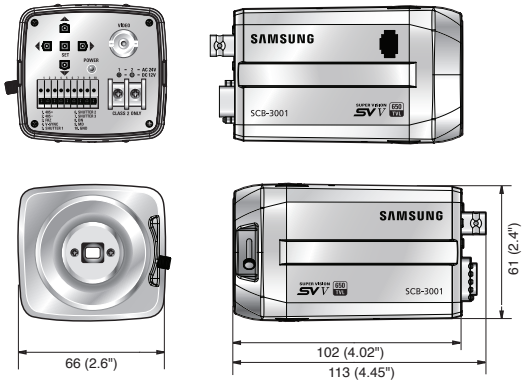
SLA-2810D SLA-2985D SLA-3580DN SLA-550DA SHB-4300H1 SHB-4200/SHB-4200H



STB-400 USE WITH STH-500 OR STH-200 STB-4150V

Dimensions

Unit : mm (inch)



Technical Specifications

	SCB-3001N	SCB-3001P	SCB-3001PH
VIDEO			
Imaging Device	1/3" Super HAD CCD (Double scan)		
Total Pixels	1,028(H) x 508(V)	1,028(H) x 596(V)	
Effective Pixels	976(H) x 494(V)	976(H) x 582(V)	
Scanning System	2 : 1 Interlace		
Synchronization	Internal / Line lock / Extern		
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz	
Horizontal Resolution	Color : 650TV lines, B/W : 700TV lines		
Min. Illumination	Color : 0.1Lux@F1.2 (50IRE), 0.0002Lux (Sens-up, 512x) B/W : 0.01Lux@F1.2 (50IRE), 0.00002Lux (Sens-up, 512x)		
S / N Ratio	52dB (AGC off, Weight on)		
Video Output	CVBS : 1.0 Vp-p / 75Ω composite		
LENS			
Lens Type	Manual / Auto iris (Video / DC)		
Mount Type	C / CS		
OPERATIONAL			
On Screen Display	English, Japanese, Spanish, French, Portuguese, Taiwanese, Korean	English, French, German, Spanish, Italian, Chinese, Russian, Polish, Czech, Romanian, Serbian, Swedish, Danish, Turkish, Portuguese	
Camera Title	Off / On (Displayed 15 characters)		
Day & Night	Auto (ICR) / External / Color / B/W		
Backlight Compensation	Off / User BLC / HLC / SSDR / WDR		
Wide Dynamic Range	128x (52dB)	160x (52dB)	
Contrast Enhancement	SSDR		
Digital Noise Reduction	SSNRIII (Off / On)		
Digital Image Stabilization	Off / On		
Motion Detection	Built-in		
Privacy Masking	Off / On (12 programmable zones with polygonal masking)		
Sens-up (Frame Integration)	2x ~ 512x		
Gain Control	Off / Low / High		
White Balance	ATW / Outdoor / Indoor / Manual / AWC (1,700K° ~ 11,000K°)		
Electronic Shutter Speed	1/60 ~ 1/120,000sec	1/50 ~ 1/120,000sec	
Digital Zoom	Off / On (1x ~ 16x)		
Flip	Vertical / Horizontal		
Profile	Basic / Day & Night / Backlight / ITS / Indoor / User		
Intelligent Video	Fixed / Moved / Fence / Tracking / Detection / Counting		
VPS	Off / On		
PIP	Off / On		
Alarm	1 Out		
Communication	Coaxial control, RS-485		
Protocol	Coax : Pelco-C (Coaxitron) RS-485 : Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon		
ENVIRONMENTAL			
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / Less than 90% RH		
ELECTRICAL			
Input Voltage	Dual (24V AC & 12V DC ±10%)		230V AC ±10%
Power Consumption	Max. 4.0W		Max. 4.2W
MECHANICAL			
Color / Material	Black, Silver / Aluminum, Steel		
Dimensions (WxHxD)	66.0 x 61.0 x 102.0mm (2.6" x 2.4" x 4.02")		66.0 x 61.0 x 115.0mm (2.6" x 2.4" x 4.53")
Weight	310g (0.68 lb)		540g (1.19 lb)

SCB-3000

1/3" High Resolution WDR Camera



Lens not included



Key Features

- High resolution of 600TV lines (Color), 700TV lines (B/W)
- Min. illumination 0.3Lux@F1.2 (Color), 0.01Lux (B/W)
- WDR, VPS, True Day / Night (ICR), MD
- SSNRIII, Coax : Pelco-C (Coaxitron), RS-485
- Dual power, 24V AC & 12V DC
- Available in 230V AC (PAL) : SCB-3000PH

Available Lenses / Accessories (optional):



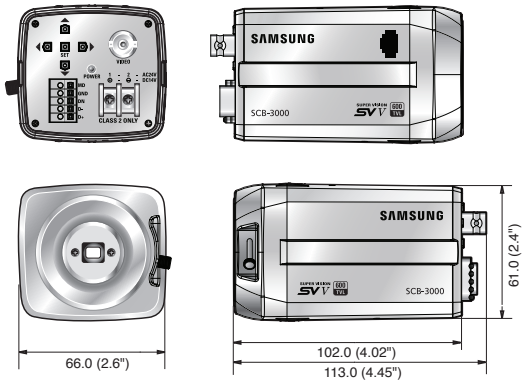
SLA-2810D SLA-2985D SLA-3580DN SLA-550DA SHB-4300H1 SHB-4200/SHB-4200H



STB-400 USE WITH STH-500 OR STH-200 STB-4150V

Dimensions

Unit : mm (inch)



Technical Specifications

	SCB-3000N	SCB-3000P	SCB-3000PH
VIDEO			
Imaging Device	1/3" Super HAD CCD (Double scan)		
Total Pixels	1,028(H) x 508(V)	1,028(H) x 596(V)	
Effective Pixels	976(H) x 494(V)	976(H) x 582(V)	
Scanning System	2 : 1 Interlace		
Synchronization	Internal / Line lock / Extern		
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz	
Horizontal Resolution	Color : 600TV lines, B/W : 700TV lines		
Min. Illumination	Color : 0.3Lux@F1.2 (50IRE), 0.0006Lux (Sens-up, 512x) B/W : 0.01Lux@F1.2 (50IRE), 0.00002Lux (Sens-up, 512x)		
S / N Ratio	52dB (AGC off, Weight on)		
Video Output	CVBS : 1.0 Vp-p / 75Ω composite		
LENS			
Lens Type	Manual / Auto iris (Video / DC)		
Mount Type	C / CS		
OPERATIONAL			
On Screen Display	English, Japanese, Spanish, French, Portuguese, Taiwanese, Korean	English, French, German, Spanish, Italian, Chinese, Russian, Polish, Czech, Romanian, Serbian, Swedish, Danish, Turkish, Portuguese	
Camera Title	Off / On (Displayed 15 characters)		
Day & Night	Auto (ICR) / External / Color / B/W		
Backlight Compensation	Off / User BLC / HLC / SSDR / WDR		
Wide Dynamic Range	128x (52dB)	160x (52dB)	
Contrast Enhancement	SSDR		
Digital Noise Reduction	SSNRIII (Off / On)		
Digital Image Stabilization	Off / On		
Motion Detection	Built-in		
Privacy Masking	Off / On (12 programmable zones with polygonal masking)		
Sens-up (Frame Integration)	2x ~ 512x		
Gain Control	Off / Low / High		
White Balance	ATW / Outdoor / Indoor / Manual / AWC (1,700K° ~ 11,000K°)		
Electronic Shutter Speed	1/60 ~ 1/120,000sec	1/50 ~ 1/120,000sec	
Digital Zoom	Off / On (1x ~ 16x)		
Flip	Vertical / Horizontal		
Profile	Basic / Day & Night / Backlight / ITS / Indoor / User		
VPS	Off / On		
PIP	Off / On		
Alarm	1 Out		
Communication	Coaxial control, RS-485		
Protocol	Coax : Pelco-C (Coaxitron) RS-485 : Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon		
ENVIRONMENTAL			
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / Less than 90% RH		
ELECTRICAL			
Input Voltage	Dual (24V AC & 12V DC ±10%)		230V AC ±10%
Power Consumption	Max. 4.0W		Max. 4.2W
MECHANICAL			
Color / Material	Black, Silver / Aluminum, Steel		
Dimensions (WxHxD)	66.0 x 61.0 x 102.0mm (2.6" x 2.4" x 4.02")		66.0 x 61.0 x 115.0mm (2.6" x 2.4" x 4.53")
Weight	310g (0.68 lb)		540g (1.19 lb)

SCB-2001

1/3" High Resolution Day & Night Camera



Lens not included

600TVL | 0.05Lux | XDR | D&N ICR | DUAL POWER

Key Features

- High resolution of 600TV lines (Color), 700TV lines (B/W)
- Min. illumination 0.05Lux@F1.2 (Color), 0.01Lux (B/W)
- True Day / Night (ICR), Intelligent video, MD, DNR (3D+2D)
- Coaxial control (CCVC), RS-485
- Dual power, 24V AC & 12V DC
- Available in 230V AC (PAL) : SCB-2001PH

Available Lenses / Accessories (optional):



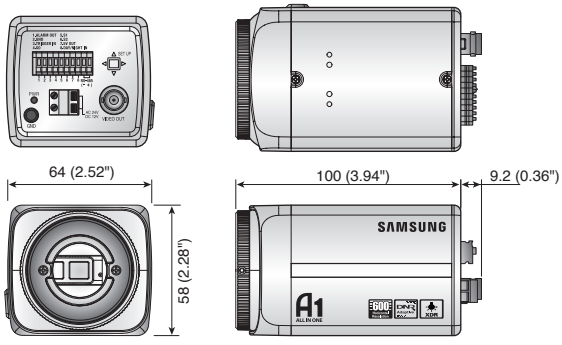
SLA-2810D SLA-2985D SLA-3580DN SLA-550DA SHB-4300H1 SHB-4200/SHB-4200H



STB-400 USE WITH STH-500 OR STH-200 STB-4150V

Dimensions

Unit : mm (inch)



Technical Specifications

	SCB-2001N	SCB-2001P	SCB-2001PH
VIDEO			
Imaging Device	1/3" Super HAD CCD		
Total Pixels	811(H) x 508(V)	795(H) x 596(V)	
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)	
Scanning System	2 : 1 Interlace		
Synchronization	Internal / Line lock		
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz	
Horizontal Resolution	Color : 600TV lines, B/W : 700TV lines		
Min. Illumination	Color : 0.05Lux@F1.2 (50IRE), 0.0001Lux (Sens-up, 512x) B/W : 0.01Lux@F1.2 (50IRE), 0.00002Lux (Sens-up, 512x)		
S / N Ratio	52dB (AGC off, Weight on)		
Video Output	CVBS : 1.0 Vp-p / 75Ω composite		
LENS			
Lens Type	Manual / Auto iris (Video / DC)		
Mount Type	C / CS		
OPERATIONAL			
On Screen Display	English, Japanese, Spanish, French, Portuguese, Taiwanese, Korean	English, French, German, Spanish, Italian, Chinese, Russian, Polish, Czech, Romanian, Serbian, Swedish, Danish, Turkish, Portuguese	
Camera Title	Off / On (Displayed 54 characters)		
Day & Night	Day / Night / Auto / Ext		
Backlight Compensation	Off / On (Area setting)		
Contrast Enhancement	XDR (Off / Low / Mid / High)		
Digital Noise Reduction	Adaptive 3D+2D (Off / Low / Mid / High / User)		
Digital Image Stabilization	Off / On		
Motion Detection	Off / Tracking / Detection		
Privacy Masking	Off / On (12 programmable zones with polygonal masking)		
Sens-up (Frame Integration)	2x ~ 512x		
Gain Control	Off / On		
White Balance	ATW1 / ATW2 / AWC (Manual) / 3200K / 5600K		
Electronic Shutter Speed	1/60 ~ 1/200,000sec	1/50 ~ 1/200,000sec	
Digital Zoom	Off / On (1x ~ 16x)		
Flip	Vertical / Horizontal		
Profile	Standard / ITS / Backlight / Day & Night / Gaming / Custom		
Intelligent Video	Fixed / Moved, Fence (Line, Area)		
PIP	Off / On		
Alarm	1 Out		
Communication	Coaxial control, RS-485		
Protocol	Coax : CCVC RS-485 : Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon, GE		
ENVIRONMENTAL			
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / Less than 90% RH		
ELECTRICAL			
Input Voltage	Dual (24V AC & 12V DC ±10%)		230V AC ±10%
Power Consumption	Max. 3.0W		Max. 4.1W
MECHANICAL			
Color / Material	Silver / Aluminum, Steel		
Dimensions (WxHxD)	64.0 x 58.0 x 100.0mm (2.52" x 2.28" x 3.94")		
Weight	305g (0.67 lb)		395g (0.87 lb)

SCB-2000

1/3" High Resolution Camera



Lens not included

600TVL | 0.05Lux | SSDR | DUAL POWER

Key Features

- High resolution of 600TV lines
- Min. illumination 0.05Lux@F1.2 (Color)
- MD, SSNRIII (3D+2D), Coaxial control (Pelco C)
- Dual power, 24V AC & 12V DC
- Available in 230V AC (PAL) : SCB-2000PH

Available Lenses / Accessories (optional):



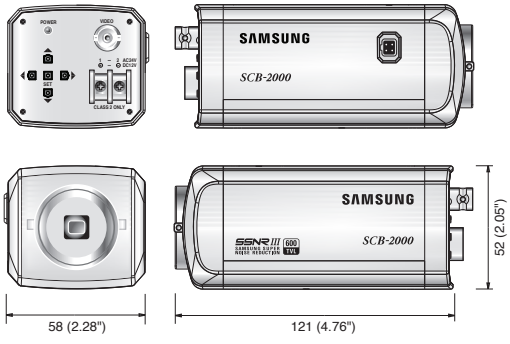
SLA-2810D SLA-2985D SLA-3580DN SLA-550DA SHB-4300H1 SHB-4200/SHB-4200H



STB-400 USE WITH STH-500 OR STH-200 STB-4150V

Dimensions

Unit : mm (inch)



Technical Specifications

	SCB-2000N	SCB-2000P	SCB-2000PH
VIDEO			
Imaging Device	1/3" Super HAD CCD		
Total Pixels	811(H) x 508(V)	795(H) x 596(V)	
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)	
Scanning System	2 : 1 Interlace		
Synchronization	Internal / Line lock	Internal / Line lock	Internal / Line lock
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz	
Horizontal Resolution	Color : 600TV lines		
Min. Illumination	0.05Lux / 0.0001Lux (F1.2, Sens-up 512x)		
S / N Ratio	52dB (AGC off, Weight on)		
Video Output	CVBS : 1.0 Vp-p / 75Ω composite		
LENS			
Lens Type	Manual / Auto iris (Video / DC)		
Mount Type	C / CS		
OPERATIONAL			
On Screen Display	English, Japanese, Spanish, French, Portuguese, Taiwanese, Korean	English, French, German, Spanish, Italian, Chinese, Russian, Polish, Czech, Romanian, Serbian, Swedish, Danish, Turkish, Portuguese	
Camera Title	On / Off (Displayed 15 characters)		
Day & Night	Auto (Electrical) / Color / B/W		
Backlight Compensation	BLC / HLC / Off		
Contrast Enhancement	SSDR (Off / On)		
Digital Noise Reduction	SSNRIII (Off / On)		
Digital Image Stabilization	Off / On		
Motion Detection	Off / On (8 programmable zones)		
Privacy Masking	Off / On (12 programmable zones)		
Sens-up (Frame Integration)	2x ~ 512x		
Gain Control	Off / Low / High		
White Balance	ATW / Outdoor / Indoor / Manual / AWC (1,700K° ~ 11,000K°)		
Electronic Shutter Speed	1/60 ~ 1/120,000sec	1/50 ~ 1/120,000sec	
Digital Zoom	Off / On (1x ~ 16x)		
Flip	Vertical / Horizontal		
Communication	Coaxial control		
Protocol	Coax : Pelco-C (Coaxitron)		
ENVIRONMENTAL			
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / Less than 90% RH		
ELECTRICAL			
Input Voltage	Dual (24V AC & 12V DC ±10%)	Dual (24V AC & 12V DC ±10%)	230V AC ±10%
Power Consumption	Max. 3.5W	Max. 3.5W	Max. 4.0W
MECHANICAL			
Color / Material	Black & Dark gray / Aluminum, Steel		
Dimensions (WxHxD)	58 x 52 x 121mm (2.28" x 2.05" x 4.76")		
Weight	340g (0.75 lb)	340g (0.75 lb)	510g (1.12 lb)

SCB-1000

1/3" High Resolution Camera



Lens not included



Key Features

- High resolution of 530TV lines
- Min. illumination 0.05Lux@F1.2 (Color)
- MD, SSNR
- 24V AC : SCB-1000NA & SCB-1000PA
- 230V AC (PAL) : SCB-1000PH

Available Lenses / Accessories (optional):



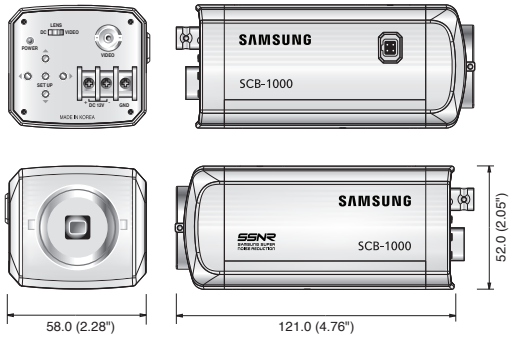
SLA-2810D SLA-2985D SLA-3580DN SLA-550DA SHB-4300H1 SHB-4200/SHB-4200H



STB-400 USE WITH STH-500 OR STH-200 STB-4150V

Dimensions

Unit : mm (inch)



Technical Specifications

	SCB-1000NA	SCB-1000PA	SCB-1000PH
VIDEO			
Imaging Device	1/3" Super HAD CCD		
Total Pixels	811(H) x 508(V)	795(H) x 596(V)	
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)	
Scanning System	2 : 1 Interlace		
Synchronization	Internal / Line lock	Internal / Line lock	Internal / Line lock
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz	
Horizontal Resolution	Color : 530TV lines		
Min. Illumination	0.05Lux / 0.0004Lux (F1.2, Sens-up, 128x)		
S / N Ratio	50dB (AGC off, Weight on)		
Video Output	CVBS : 1.0 Vp-p / 75Ω composite		
LENS			
Lens Type	Manual / Auto iris (Video / DC)		
Mount Type	C / CS		
OPERATIONAL			
On Screen Display	Built-in		
Camera Title	Off / On (Displayed 15 characters)		
Day & Night	Auto (Electrical) / On		
Backlight Compensation	Low / Middle / High / Off		
SSNR (Digital Noise Reduction)	Low / Middle / High / Off		
Motion Detection	Off / On (4 programmable zones)		
Privacy Masking	Off / On (4 programmable zones)		
Sens-up (Frame Integration)	2x ~ 128x		
Gain Control	Low / Middle / High / Off		
White Balance	ATW / Manual / AWC (1,800K° ~ 10,500K°)		
Electronic Shutter Speed	1/60 ~ 1/120,000sec	1/50 ~ 1/120,000sec	
Flip	Vertical / Horizontal		
ENVIRONMENTAL			
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / Less than 90% RH		
ELECTRICAL			
Input Voltage	24V AC ±10%	24V AC ±10%	230V AC ±10%
Power Consumption	Max. 3.5W	Max. 3.5W	Max. 4.0W
MECHANICAL			
Color / Material	Light Silver / Aluminum, Steel		
Dimensions (WxHxD)	58.0 x 52.0 x 121.0mm (2.28" x 2.05" x 4.76")		
Weight	340g (0.75 lb)	340g (0.75 lb)	510g (1.12 lb)

SUB-2000

1/3" High Resolution UTP Camera



Lens not included

600TVL | 0.05Lux | SSDR | UTP Driver Tx | 12VDC 24VAC 28VAC

Key Features

- High resolution of 600TV lines
- Min. illumination 0.05Lux@F1.2 (Color)
- MD, SSNRIII (3D+2D), Built-in UTP T/X
- RS-485 & Coaxial control (Pelco C)
- Dual power, 24V AC & 12V DC
- Can operate at 28V AC ±10%

Available Lenses / Accessories (optional):



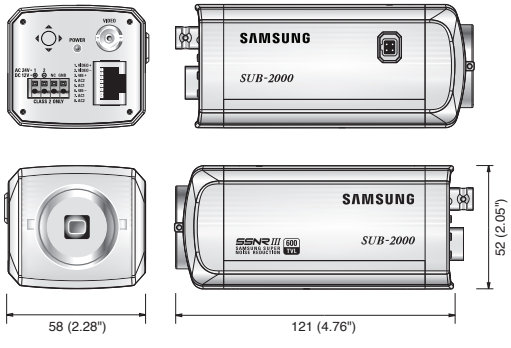
SLA-2810D SLA-2985D SLA-3580DN SLA-550DA SHB-4300H1 SHB-4200/SHB-4200H



STB-400 USE WITH STH-500 OR STH-200 STB-4150V

Dimensions

Unit : mm (inch)



Technical Specifications

	SUB-2000N	SUB-2000P
VIDEO		
Imaging Device	1/3" Super HAD CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace	
Synchronization	Internal / Line lock	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 600TV lines	
Min. Illumination	Color : 0.05Lux@F1.2 (50IRE)	
S / N Ratio	52dB (AGC off, Weight on)	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
UTP Output	Built-in UTP TX	
LENS		
Lens Type	Manual / Auto iris (Video / DC)	
Mount Type	C / CS	
OPERATIONAL		
On Screen Display	English, Japanese, Spanish, French, Portuguese, Taiwanese, Korean	English, French, German, Spanish, Italian, Chinese, Russian, Polish, Czech, Romanian, Serbian, Swedish, Danish, Turkish,Portuguese
Camera Title	Off / On (Displayed 15 characters)	
Day & Night	Auto (Electrical) / Color / B/W	
Backlight Compensation	BLC / HLC / Off	
Dynamic Range	SSDR (Off / On)	
Digital Noise Reduction	SSNRIII (Off / On)	
Digital Image Stabilization	Off / On	
Motion Detection	Off / On (8 programmable zones)	
Privacy Masking	Off / On (12 programmable zones)	
Sens-up (Frame Integration)	2x ~ 512x	
Gain Control	Low / High / Off	
White Balance	ATW / Outdoor / Indoor / Manual / AWC (1,700K° ~ 11,000K°)	
Electronic Shutter Speed	1/60 ~ 1/120,000sec	1/50 ~ 1/120,000sec
Digital Zoom	Off / On (1x ~ 16x)	
Flip	Vertical / Horizontal	
Communication	Coaxial control, RS-485	
Protocol	Coax : Pelco-C (Coaxitron) RS-485 : Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon	
ENVIRONMENTAL		
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / Less than 90% RH	
ELECTRICAL		
Input Voltage	Dual (24V AC & 12V DC ±10%), 28V AC ±10%	
Power Consumption	Max. 3.5W	
MECHANICAL		
Color / Material	Black & Dark gray / Aluminum, Steel	
Dimensions (WxHxD)	58.0 x 52.0 x 121.0mm (2.28" x 2.05" x 4.76")	
Weight	290g (0.64 lb)	

UTP Accessories



4CH UTP Power Supply Hub
SPU-400

1CH UTP Transceiver
SPU-100TR

4CH UTP Receiver
SPU-400R

SCZ-3430/2430

1/4" 43x High Resolution Zoom Camera





Key Features

- High resolution of 600TV lines (Color), 700TV lines(B/W)
- Min. illumination 0.7Lux@F1.65 (Color), 0.07Lux (B/W) : SCZ-3430
  Min. illumination 0.2Lux@F1.65 (Color), 0.02Lux (B/W) : SCZ-2430
- Powerful 43x zoom (3.2 ~ 138.5mm), Digital 16x
- WDR, VPS : SCZ-3430, True Day / Night (ICR),
  Intelligent video, MD, DNR (3D+2D)
- Coaxial control (CCVC), RS-485
- Dual power, 24V AC & 12V DC

Accessories (optional):


SHB-4300H1


SHB-4200/SHB-4200H


STB-4150V


STB-400

USE WITH

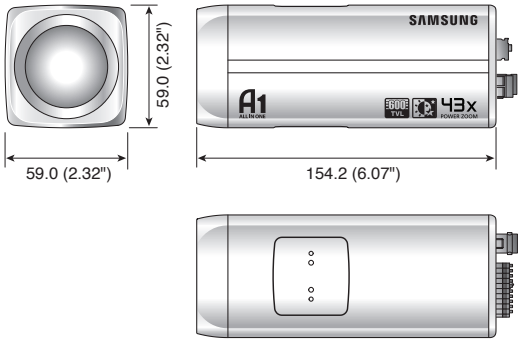

STH-500

OR


STH-200

Dimensions

Unit : mm (inch)



Technical Specifications

	SCZ-3430N/2430N	SCZ-3430P/2430P
VIDEO		
Imaging Device	1/4" Ex-view HAD CCD (Double scan) : SCZ-3430, 1/4" Super HAD CCD : SCZ-2430	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace	
Synchronization	Internal / Line lock	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 600TV lines, B/W : 700TV lines	
Min. Illumination	Color : 0.7Lux@F1.65 (50IRE), 0.001Lux (Sens-up, 512x) : SCZ-3430 0.2Lux@F1.65 (50IRE), 0.0004Lux (Sens-up, 512x) : SCZ-2430 B/W : 0.07Lux@F1.65 (50IRE), 0.0002Lux (Sens-up, 512x) : SCZ-3430 0.02Lux@F1.65 (50IRE), 0.00004Lux (Sens-up, 512x) : SCZ-2430	
S / N Ratio	52dB (AGC off, Weight on)	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
LENS		
Focal Length (Zoom Ratio)	3.2 ~ 138.5mm (Optical 43x)	
Max. Aperture Ratio	1: 1.65(Wide) ~ 3.7(Tele)	
Angular Field of View	H : 61.22°(Wide) ~ 1.47°(Tele) / V : 47.16°(Wide) ~ 1.1°(Tele)	
Min. Object Distance	1m (3.28ft)	
Focus Control	Auto / Manual / One AF	
Zoom Movement Speed	3.2sec (Wide to tele)	
OPERATIONAL		
On Screen Display	English, Japanese, Spanish, French, Portuguese, Taiwanese, Korean	English, French, German, Spanish, Italian, Chinese, Russian, Polish, Czech, Romanian, Serbian, Swedish, Danish, Turkish, Portuguese
Camera Title	Off / On (Displayed 54 characters)	
Day & Night	Day / Night / Auto / Ext	
Backlight Compensation	Off / On (Area setting)	
Wide Dynamic Range	128x (52dB): SCZ-3430	160x (52dB): SCZ-3430
Contrast Enhancement	XDR (Off / Low / Mid / High)	
Digital Noise Reduction	Adaptive 3D+2D (Off / Low / Mid / High / User)	
Digital Image Stabilization	Off / On	
Motion Detection	Off / Tracking / Detection	
Privacy Masking	Off / On (12 programmable zones with polygonal masking)	
Sens-up (Frame Integration)	2x ~ 512x	
Gain Control	Off / On	
White Balance	ATW1 / ATW2 / AWC (Manual) / 3200K / 5600K	
Electronic Shutter Speed	1/60 ~ 1/120,000sec	1/50 ~ 1/120,000sec
Digital Zoom	Off / On (1x ~ 16x)	
Flip	Off / H / V / H/V	
Profile	Standard / ITS / Backlight / Day & Night / Gaming / Custom	
VPS	Off / On : SCZ-3430	
Intelligent Video	Fixed / Moved	
PIP	Off / On	
Schedule	Day / Time	
Alarm	1 Out	
Communication	Coaxial control, RS-485	
Protocol	Coax : CCVC RS-485 : Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon	
ENVIRONMENTAL		
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / Less than 90% RH	
ELECTRICAL		
Input Voltage	Dual (24V AC & 12V DC ±10%)	Dual (24V AC & 12V DC ±10%)
Power Consumption	Max. 3.0W	
MECHANICAL		
Color / Material	Silver / Aluminum, Steel	
Dimensions (WxHxD)	59.0 x 59.0 x 154.2mm (2.32" x 2.32" x 6.07")	59.0 x 59.0 x 154.2mm (2.32" x 2.32" x 6.07")
Weight	564g (1.24 lb)	564g (1.24 lb)

SCZ-3370/2370

1/4" 37x High Resolution Zoom Camera



SCZ-3370

SCZ-2370

600TVL | 0.7Lux 0.2Lux | 37x A/F Lens | D&N ICR | DUAL POWER

Key Features

- High resolution of 600TV lines (Color), 700TV lines (B/W)
- Min. illumination 0.7Lux@F1.6 (Color), 0.07Lux (B/W) : SCZ-3370
  Min. Illumination 0.2Lux@F1.6 (Color), 0.02Lux (B/W) : SCZ-2370
- Powerful 37x zoom (3.5 ~ 129.5mm), Digital 16x
- WDR, VPS : SCZ-3370, True Day / Night (ICR),
  Intelligent video, MD, SSNRIII (3D+2D)
- Coaxial control (Pelco-C), RS-485, Dual power

Accessories (optional):


SHB-4300H1


SHB-4200/SHB-4200H


STB-4150V


STB-400

USE WITH


STH-500

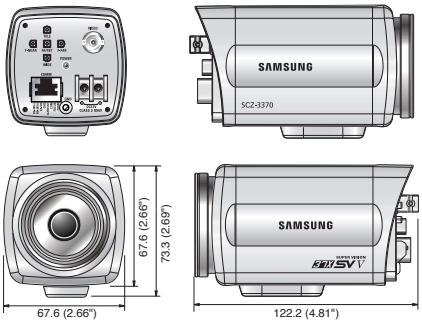
OR


STH-200

Dimensions

Unit : mm (inch)

SCZ-3370 / SCZ-2370



Technical Specifications

	SCZ-3370N/2370N	SCZ-3370P/2370P
Imaging Device	1/4" Ex-view double scan CCD : SCZ-3370, 1/4" Super HAD CCD : SCZ-2370	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace	
Synchronization	Internal / Line lock	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 600TV lines, B/W : 700TV lines	
Min. Illumination	Color : 0.7Lux@F1.6 (50IRE), 0.001Lux (Sens-up, 512x) : SCZ-3370 0.2Lux@F1.6 (50IRE), 0.0004Lux (Sens-up, 512x) : SCZ-2370 B/W : 0.07Lux@F1.6 (50IRE), 0.0002Lux (Sens-up, 512x) : SCZ-3370 0.02Lux@F1.6 (50IRE), 0.00004Lux (Sens-up, 512x) : SCZ-2370	
S / N Ratio	52dB (AGC off, Weight on)	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
Focal Length (Zoom Ratio)	3.5 ~ 129.5mm (Optical 37x)	
Max. Aperture Ratio	1 : 1.6(Wide) ~ 3.9(Tele)	
Angular Field of View	H : 55.5°(Wide) ~ 1.59°(Tele) / V : 42.5°(Wide) ~ 1.19°(Tele)	
Min. Object Distance	1.5m	
Focus Control	Auto / Manual / One push	
Zoom Movement Speed	2.8sec (Wide to tele)	
On Screen Display	English, Japanese, Spanish, French, Portuguese, Taiwanese, Korean	English, French, German, Spanish, Italian, Chinese, Russian, Polish, Czech, Romanian, Serbian, Swedish, Danish, Turkish, Portuguese
Camera Title	Off / On (Displayed 15 characters)	
Day & Night	Auto (ICR) / External / Color / B/W	
Backlight Compensation	Off / HLC / BLC / WDR (SCZ-3370)	
Wide Dynamic Range	128x : SCZ-3370	160x : SCZ-3370
Contrast Enhancement	SSDR (Off / On)	
Digital Noise Reduction	SSNRIII (Off/ Low / Medium / High)	
Digital Image Stabilization	Off / On	
Motion Detection	Off / On (8 programmable zones)	
Privacy Masking	Off / On (12 programmable zones)	
Sens-up (Frame Integration)	2x ~ 512x	
Gain Control	Off / Low / Medium / High / Manual	
White Balance	ATW / Outdoor / Indoor / Manual / AWC (1,700K° ~ 11,000K°)	
Electronic Shutter Speed	1/60 ~ 1/120,000sec	1/50 ~ 1/120,000sec
Digital Zoom	Off / On (1x ~ 16x)	
Flip	Vertical / Horizontal	
Profile	Basic / Day & Night / Backlight / ITS / Indoor / User : SCZ-3370	
VPS	Off / On : SCZ-3370	
Intelligent Video	Fixed / Moved / Fence / Area / Detection / Tracking / Counting : SCZ-3370	
Alarm	1 Out : SCZ-3370	
Communication	Coaxial control, RS-485	
Protocol	Coax : Pelco-C (Coaxitron) RS-485 : Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon, AD	
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / Less than 90% RH	
Input Voltage / Current	Dual (24V AC & 12V DC ±10%)	Dual (24V AC & 12V DC ±10%)
Power Consumption	Max. 5.3W : SCZ-3370, Max. 4.8W : SCZ-2370	
Color / Material	Black, Silver / Aluminum, Steel : SCZ-3370, Black, Silver / Plastic, Steel : SCZ-2370	
Dimensions (WxHxD)	67.6 x 73.3 x 146.2mm (2.66" x 2.89" x 5.76") : SCZ-3370N 67.6 x 67.6 x 147.7mm (2.66" x 2.66" x 5.81") : SCZ-2370N	67.6 x 73.3 x 146.2mm (2.66" x 2.89" x 5.76") : SCZ-3370P 67.6 x 67.6 x 147.7mm (2.66" x 2.66" x 5.81") : SCZ-2370P
Weight	TBD : SCZ-3370N 520g (1.15 lb) : SCZ-2370N	TBD : SCZ-3370P 520g (1.15 lb) : SCZ-2370P

SCZ-3250

1/4" High Resolution 25x Zoom Camera





Key Features

- High resolution of 600TV lines (Color), 700TV lines (B/W)
- Min. illumination 0.7Lux@F1.65 (Color), 0.07Lux (B/W)
- Powerful 25x zoom (3.66 ~ 91.36mm), digital 16x
- WDR, VPS, True Day / Night (ICR),
  Intelligent video, MD, DNR
- Coax : CCVC, RS-485
- Dual power, 24V AC & 12V DC

Accessories (optional):


SHB-4300H1


SHB-4200/SHB-4200H


STB-4150V


STB-400

USE WITH

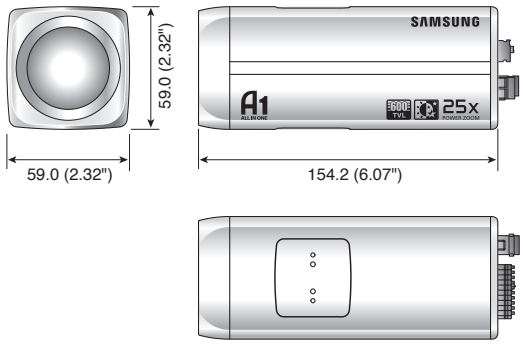

STH-500

OR


STH-200

Dimensions

Unit : mm (inch)



Technical Specifications

	SCZ-3250N	SCZ-3250P
VIDEO		
Imaging Device	1/4" Ex-view HAD CCD (Double scan)	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace	
Synchronization	Internal / Line lock	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 600TV lines, B/W : 700TV lines	
Min. Illumination	Color : 0.7Lux@F1.65 (50IRE), 0.001Lux (Sens-up, 512x) B/W : 0.07Lux@F1.65 (50IRE), 0.0002Lux (Sens-up, 512x)	
S / N Ratio	52dB (AGC off, Weight on)	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
LENS		
Focal Length (Zoom Ratio)	3.66 ~ 91.36mm (Optical 25x)	
Max. Aperture Ratio	1 : 1.65(Wide) ~ 3.0(Tele)	
Angular Field of View	H : 54.95°(Wide) ~ 2.24°(Tele) / V : 41.83°(Wide) ~ 1.68°(Tele)	
Min. Object Distance	1m (3.28ft)	
Focus Control	Auto / Manual / One AF	
Zoom Movement Speed	2.9sec (Wide to tele)	
OPERATIONAL		
On Screen Display	English, Japanese, Spanish, French, Portuguese, Taiwanese, Korean	English, French, German, Spanish, Italian, Chinese, Russian, Polish, Czech, Romanian, Serbian, Swedish, Danish, Turkish, Portuguese
Camera Title	Off / On (Displayed 54 characters)	
Day & Night	Day / Night / Auto / Ext	
Backlight Compensation	Off / On (Area setting)	
Wide Dynamic Range	128x (52DB) : SCZ-3250	160x (52DB) : SCZ-3250
Contrast Enhancement	XDR (Off / Low / Mid / High)	
Digital Noise Reduction	Adaptive 3D+2D (Off / Low / Mid / High / User)	
Digital Image Stabilization	Off / On	
Motion Detection	Off / Tracking / Detection	
Privacy Masking	Off / On (12 programmable zones with polygonal masking)	
Sens-up (Frame Integration)	2x ~ 512x	
Gain Control	Off / On	
White Balance	ATW1 / ATW2 / AWC (Manual) / 3200K / 5600K	
Electronic Shutter Speed	1/60 ~ 1/120,000sec	1/50 ~ 1/120,000sec
Digital Zoom	Off / On (1x ~ 16x)	
Flip	Vertical / Horizontal	
Profile	Standard / ITS / Backlight / Day & Night / Gaming / Custom	
VPS	Off / On	
Intelligent Video	Fixed / Moved	
PIP	Off / On	
Schedule	Day / Time	
Alarm	1 Out	
Communication	Coaxial control, RS-485	
Protocol	Coax : CCVC RS-485 : Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon	
ENVIRONMENTAL		
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / Less than 90% RH	
ELECTRICAL		
Input Voltage	Dual (24V AC & 12V DC ±10%)	
Power Consumption	Max. 3.0W	
MECHANICAL		
Color / Material	Silver / Aluminum, Steel	
Dimensions (WxHxD)	59.0 x 59.0 x 154.2mm (2.32" x 2.32" x 6.07")	
Weight	564g (1.24 lb)	

SCO-2370

FC CE

1/4" 37x High Resolution Weatherproof Camera



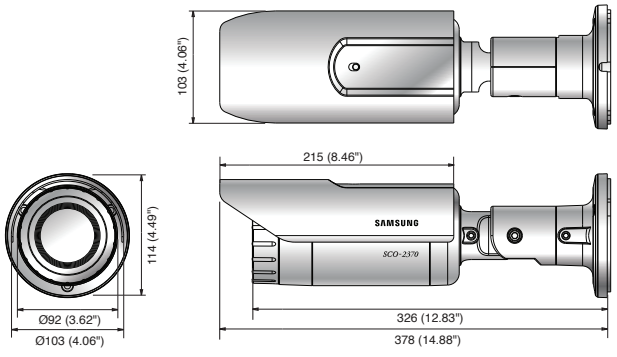


Key Features

- High resolution of 600TV lines (Color), 700TV lines (B/W)
- Min. illumination 0.2Lux@F1.6 (Color), 0.02Lux (B/W)
- Powerful 37x zoom (3.5 ~ 129.5mm), Digital 16x
- True Day / Night (ICR), Intelligent video, MD, SSNRIII (3D+2D)
- Coaxial control (Pelco-C), RS-485, IP68
- Dual power, 24V AC & 12V DC

Dimensions

Unit : mm (inch)



Technical Specifications

	SCO-2370N	SCO-2370P
VIDEO		
Imaging Device	1/4" Super HAD CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace	
Synchronization	Internal / Line lock	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 600TV lines, B/W : 700TV lines	
Min. Illumination	Color : 0.2Lux@F1.6 (50IRE), 0.0004Lux (Sens-up, 512x) B/W : 0.02Lux@F1.6 (50IRE), 0.00004Lux (Sens-up 512x)	
S / N Ratio	52dB (AGC off, Weight on)	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
LENS		
Focal Length (Zoom Ratio)	3.5 ~ 129.5mm (Optical 37x)	
Max. Aperture Ratio	1 : 1.6(Wide) ~ 3.9(Tele)	
Angular Field of View	H : 55.5°(Wide) ~ 1.59°(Tele) / V : 42.5°(Wide) ~ 1.19°(Tele)	
Min. Object Distance	1.5m (4.92ft)	
Focus Control	Auto / Manual / One shot	
Zoom Movement Speed	2.8sec (Wide to tele)	
OPERATIONAL		
On Screen Display	English, Japanese, Spanish, French, Portuguese, Taiwanese, Korean	English, French, German, Spanish, Italian, Chinese, Russian, Polish, Czech, Romanian, Serbian, Swedish, Danish, Turkish, Portuguese
Camera Title	On / Off (Displayed 15 characters)	
Day & Night	Auto (ICR) / Color / B/W	
Backlight Compensation	Off / BLC / HLC	
Dynamic Range	SSDR (Off / On)	
Digital Noise Reduction	SSNRIII (Off/ Low / Medium / High)	
Digital Image Stabilization	Off / On	
Motion Detection	Off / On (8 programmable zones)	
Privacy Masking	Off / On (12 programmable zones)	
Sens-up (Frame Integration)	2x ~ 512x	
Gain Control	Off / Low / Medium / High / Manual	
White Balance	ATW / Outdoor / Indoor / Manual / AWC (1,700K° ~ 11,000K°)	
Electronic Shutter Speed	1/60 ~ 1/120,000sec	1/50 ~ 1/120,000sec
Digital Zoom	Off / On (1x ~ 16x)	
Flip	Vertical / Horizontal	
Alarm	1 Out	
Communication	Coaxial control, RS-485	
Protocol	Coax : Pelco-C (Coaxitron) RS-485 : Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon, AD	
ENVIRONMENTAL		
Operating Temperature / Humidity	-50°C ~ +50°C (-58°F ~ +122°F) / Up to 100% RH : 24V AC -20°C ~ +50°C (-4°F ~ +122°F) / Up to 100% RH : 12V DC	
Ingress Protection	IP68	
ELECTRICAL		
Input Voltage	Dual (24V AC & 12V DC ±10%)	
Power Consumption	Max. 3.8W, 4.8W (12V DC / 24V AC, Fan & heater Off) Max. 28W (Fan & heater on, 24V AC)	
MECHANICAL		
Color / Material	Dark gray / Aluminum, Plastic	
Dimensions (WxHxD)	Ø103.0 x 114.0 x 378.0mm (Ø4.06" x 4.49" x14.88")	
Weight	1.95Kg (4.3 lb)	

SCO-2080

FC CE

1/3" High Resolution Weatherproof Camera



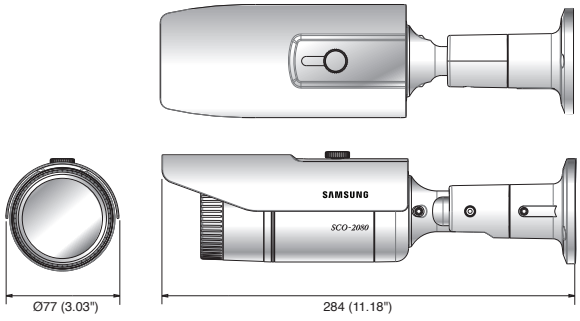


Key Features

- High resolution of 600TV lines (Color), 700TV lines (B/W)
- Min. illumination 0.15Lux@ F1.2 (Color), 0.001Lux (B/W)
- Built-in V/F lens (2.8 ~ 10mm)
- True Day / Night (ICR), MD, SSNRIII
- IP66, Coax : Pelco-C (Coaxitron), RS-485
- Dual power, 24V AC & 12V DC

Dimensions

Unit : mm (inch)



Technical Specifications

	SCO-2080N	SCO-2080P
VIDEO		
Imaging Device	1/3" Super HAD CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace	
Synchronization	Internal / Line lock	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 600TV lines, B/W : 700TV lines	
Min. Illumination	Color : 0.15Lux@F1.2 (50IRE), 0.0003Lux (Sens-up, 512x) B/W : 0.001Lux@F1.2 (50IRE), 0.000002Lux (Sens-up 512x)	
S / N Ratio	52dB (AGC off, Weight on)	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
LENS		
Focal Length (Zoom Ratio)	2.8 ~ 10mm (V/F, 3.6x)	
Max. Aperture Ratio	1 : 1.2(Wide) ~ 2.8(Tele)	
Angular Field of View	H : 94.4°(Wide) ~ 28°(Tele) / V : 69.2°(Wide) ~ 21°(Tele)	
Min. Object Distance	0.2m (0.66ft)	
Focus Control	Manual	
Lens Type	DC auto iris	
OPERATIONAL		
On Screen Display	English, Japanese, Spanish, French, Portuguese, Taiwanese, Korean	English, French, German, Spanish, Italian, Chinese, Russian, Polish, Czech, Romanian, Serbian, Swedish, Danish, Turkish, Portuguese
Camera Title	On / Off (Displayed 15 characters)	
Day & Night	Auto (ICR) / Color / B/W	
Backlight Compensation	Off / BLC / HLC	
Dynamic Range	SSDR (Off / On)	
Digital Noise Reduction	SSNRIII (Off / On)	
Digital Image Stabilization	Off / On	
Motion Detection	Off / On (8 programmable zones)	
Privacy Masking	Off / On (12 programmable zones)	
Sens-up (Frame Integration)	2x ~ 512x	
Gain Control	Off / Low / High	
White Balance	ATW / Outdoor / Indoor / Manual / AWC (1,700K° ~ 11,000K°)	
Electronic Shutter Speed	1/60 ~ 1/120,000sec	1/50 ~ 1/120,000sec
Digital Zoom	Off / On (1x ~ 16x)	
Flip	Vertical / Horizontal	
Communication	Coaxial control, RS-485	
Protocol	Coax : Pelco-C (Coaxitron) RS-485 : Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon	
ENVIRONMENTAL		
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / Up to 100% RH	
Ingress Protection	IP66	
ELECTRICAL		
Input Voltage	Dual (24V AC & 12V DC ±10%)	
Power Consumption	Max. 3.8W	
MECHANICAL		
Color / Material	Dark gray / ALDC	
Dimensions (WxHxD)	Ø77.0 x 216.0mm (Ø3.03" x 8.5") (Bracket angle 90°), 284.0mm (11.18") (Bracket angle 180°)	
Weight	955g (2.11 lb)	

SCO-2120R

FC CE

1/4" High Resolution 12x Weatherproof IR Camera



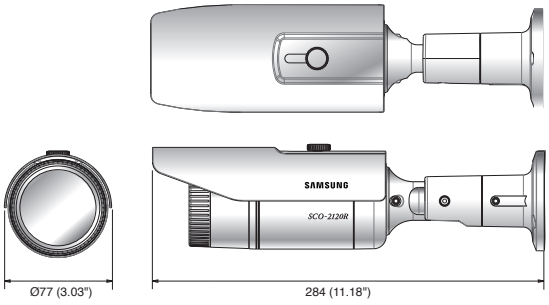


Key Features

- High resolution of 600TV lines (Color), 700TV lines (B/W)
- Min. illumination 0Lux (IR LED On), IR distance 70m
- Powerful 12x zoom (3.94 ~ 46.05mm), digital 16x
- True Day / Night (ICR), MD, SSNRIII
- IP66, Coax : Pelco-C (Coaxitron), RS-485, dual power

Dimensions

Unit : mm (inch)



Technical Specifications

	SCO-2120RN	SCO-2120RP
VIDEO		
Imaging Device	1/4" Super HAD CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace	
Synchronization	Internal / Line lock	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 600TV lines, B/W : 700TV lines	
Min. Illumination	Color : 0.2Lux@F1.67 (50IRE), 0.0004Lux (Sens-up, 512x) B/W : 0Lux (IR LED on)	
S / N Ratio	52dB (AGC off, Weight on)	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
LENS		
Focal Length (Zoom Ratio)	3.94 ~ 46.05mm (Optical 12x)	
Max. Aperture Ratio	1 : 1.67(Wide) ~ 1.88(Tele)	
Angular Field of View	H : 51.54°(Wide) ~ 4.5°(Tele) / V : 39.24°(Wide) ~ 3.38°(Tele)	
Min. Object Distance	1.8m (Tele) (5.91ft)	
Focus Control	Auto / Manual / One shot	
Zoom Movement Speed	1.9sec (Wide to tele)	
OPERATIONAL		
On Screen Display	English, Japanese, Spanish, French, Portuguese, Taiwanese, Korean	English, French, German, Spanish, Italian, Chinese, Russian, Polish, Czech, Romanian, Serbian, Swedish, Danish, Turkish, Portuguese
Camera Title	On / Off (Displayed 15 characters)	
Day & Night	Auto (ICR) / Color / B/W	
Backlight Compensation	Off / BLC / HLC	
Dynamic Range	SSDR (Off / On)	
Digital Noise Reduction	SSNRIII (Off / On)	
Digital Image Stabilization	Off / On	
Motion Detection	Off / On (8 programmable zones)	
Privacy Masking	Off / On (12 programmable zones)	
Sens-up (Frame Integration)	2x ~ 512x	
Gain Control	Off / Low / Medium / High / Manual	
White Balance	ATW / Outdoor / Indoor / Manual / AWC (1,700K° ~ 11,000K°)	
Electronic Shutter Speed	1/60 ~ 1/120,000sec	1/50 ~ 1/120,000sec
Digital Zoom	Off / On (1x ~ 16x)	
Flip	Vertical / Horizontal	
Communication	Coaxial control, RS-485	
Protocol	Coax : Pelco-C (Coaxitron) RS-485 : Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon, AD	
IR Distance	70m (850nm IR LED : 31ea)	
ENVIRONMENTAL		
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / Up to 100% RH	
Ingress Protection	IP66	
ELECTRICAL		
Input Voltage	Dual (24V AC & 12V DC ±10%)	
Power Consumption	Max. 6.8W / 6.5W (IR LED on)	
MECHANICAL		
Color / Material	Dark gray / ALDC	
Dimensions (WxHxD)	Ø77.0 x 274.7mm (Ø3.03" x 10.81") (Bracket angle 90°), 314.1mm (12.37") (Bracket angle 180°)	
Weight	1.2Kg (2.65 lb)	

SCO-2080R

1/3" High Resolution Weatherproof IR Camera



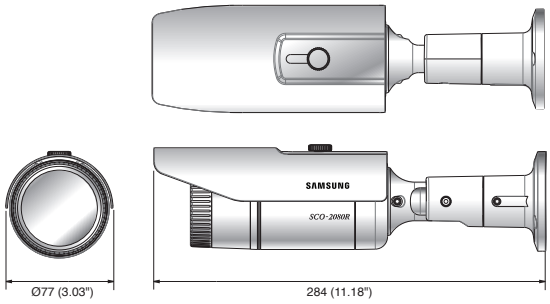
600TVL | 0Lux | 3.6x V/F Lens | D&N ICR | DUAL POWER

Key Features

- High resolution of 600TV lines (Color), 700TV lines (B/W)
- Min. illumination 0Lux (IR LED On), IR distance 50m
- Built-in V/F lens (2.8 ~ 10mm)
- True Day / Night (ICR), MD, SSNRIII
- IP66, Coax : Pelco-C (Coaxitron), RS-485
- Dual power, 24V AC & 12V DC

Dimensions

Unit : mm (inch)



Technical Specifications

	SCO-2080RN	SCO-2080RP
VIDEO		
Imaging Device	1/3" Super HAD CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace	
Synchronization	Internal / Line lock	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 600TV lines, B/W : 700TV lines	
Min. Illumination	Color : 0.15Lux@F1.2 (50IRE), 0.0003Lux (Sens-up, 512x) B/W : 0Lux (IR LED On)	
S / N Ratio	52dB (AGC off, Weight on)	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
LENS		
Focal Length (Zoom Ratio)	2.8 ~ 10mm (V/F, 3.6x)	
Max. Aperture Ratio	1 : 1.2(Wide) ~ 2.8(Tele)	
Angular Field of View	H : 94.4°(Wide) ~ 28°(Tele) / V : 69.2°(Wide) ~ 21°(Tele)	
Min. Object Distance	0.2m (0.66ft)	
Focus Control	Manual	
Lens Type	DC auto iris	
OPERATIONAL		
On Screen Display	English, Japanese, Spanish, French, Portuguese, Taiwanese, Korean	English, French, German, Spanish, Italian, Chinese, Russian, Polish, Czech, Romanian, Serbian, Swedish, Danish, Turkish, Portuguese
Camera Title	On / Off (Displayed 15 characters)	
Day & Night	Auto (ICR) / Color / B/W	
Backlight Compensation	Off / BLC / HLC	
Dynamic Range	SSDR (Off / On)	
Digital Noise Reduction	SSNRIII (Off / On)	
Digital Image Stabilization	Off / On	
Motion Detection	Off / On (8 programmable zones)	
Privacy Masking	Off / On (12 programmable zones)	
Sens-up (Frame Integration)	2x ~ 512x	
Gain Control	Off / Low / High	
White Balance	ATW / Outdoor / Indoor / Manual / AWC (1,700K° ~ 11,000K°)	
Electronic Shutter Speed	1/60 ~ 1/120,000sec	1/50 ~ 1/120,000sec
Digital Zoom	Off / On (1x ~ 16x)	
Flip	Vertical / Horizontal	
Communication	Coaxial control, RS-485	
Protocol	Coax : Pelco-C (Coaxitron) RS-485 : Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon	
IR Distance	50m (850nm IR LED : 32ea)	
ENVIRONMENTAL		
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / Up to 100% RH	
Ingress Protection	IP66	
ELECTRICAL		
Input Voltage	Dual (24V AC & 12V DC ±10%)	
Power Consumption	Max 6.8W / 6.5W (IR LED on)	
MECHANICAL		
Color / Material	Dark gray / ALDC	
Dimensions (WxHxD)	Ø77.0 x 216.0mm (Ø3.03" x 8.5") (Bracket angle 90°), 284.0mm (11.18") (Bracket angle 180°)	
Weight	1Kg (2.2 lb)	

SCD-3081

1/3" High Resolution WDR Varifocal Dome Camera



SCD-3081



SCD-3081B

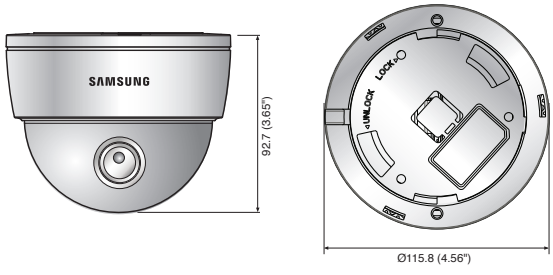


Key Features

- High resolution of 650TV lines, 700TV lines (B/W)
- Min. illumination 0.1Lux@F1.2 (Color), 0.01Lux (B/W)
- 3.9x V/F lens (2.8 ~ 11mm), WDR, VPS, Intelligent Video
- True Day / Night (ICR), MD, SSNRIII
- Coax : Pelco-C (Coaxitron)
- Dual power, 24V AC & 12V DC

Dimensions

Unit : mm (inch)



Technical Specifications

	SCD-3081N	SCD-3081P
VIDEO		
Imaging Device	1/3" Super HAD CCD (Double scan)	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace	
Synchronization	Internal / Line lock	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 650TV lines, B/W : 700TV lines	
Min. Illumination	Color : 0.1Lux@F1.2 (50IRE), 0.0002Lux (Sens-up, 512x) B/W : 0.01Lux@F1.2 (50IRE), 0.00002Lux (Sens-up, 512x)	
S / N Ratio	52dB (AGC off, Weight on)	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
LENS		
Focal Length (Zoom Ratio)	2.8 ~ 11mm (3.9x)	
Max. Aperture Ratio	1 : 1.2(Wide) ~ 2.8(Tele)	
Angular Field of View	H : 94°(Wide) ~ 26°(Tele) / V : 67°(Wide) ~ 20°(Tele)	
Min. Object Distance	0.2m (0.66ft)	
Lens Type	DC auto iris	
Mount Type	Board type	
PAN / TILT		
Pan Range	0° ~ 340°	
Tilt Range	0° ~ 73°	
Rotate Range	0° ~ 340°	
OPERATIONAL		
On Screen Display	English, Japanese, Spanish, French, Portuguese, Taiwanese, Korean	English, French, German, Spanish, Italian, Chinese, Russian, Polish, Czech, Romanian, Serbian, Swedish, Danish, Turkish, Portuguese
Camera Title	Off / On (Displayed 15 characters)	
Day & Night	Auto (ICR) / External / Color / B/W	
Backlight Compensation	Off / User BLC / HLC / SSDR / WDR	
Wide Dynamic Range	128x (52DB)	160x (52DB)
Contrast Enhancement	SSDR (Off / On)	
Digital Noise Reduction	SSNRIII (Off / On)	
Digital Image Stabilization	Off / On	
Motion Detection	Off / On (8 programmable zones)	
Privacy Masking	Off / On (12 programmable zones)	
Sens-up (Frame Integration)	2x ~ 512x	
Gain Control	Off / Low / High	
White Balance	ATW / Outdoor / Indoor / Manual / AWC (1,700K° ~ 11,000K°)	
Electronic Shutter Speed	1/60 ~ 1/120,000sec	1/50 ~ 1/120,000sec
Digital Zoom	Off / On (1x ~ 16x)	
Flip	Vertical / Horizontal	
Profile	Basic / Day & Night / Backlight / ITS / Indoor / User	
VPS	Off / On	
Intelligent Video	Fixed / Moved / Area / Fence / Tracking / Detection / Counting	
PIP	Off / On	
Alarm	1 Out	
Communication	Coaxial control	
Protocol	Coax : Pelco-C (Coaxitron)	
ENVIRONMENTAL		
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / Less than 90% RH	
ELECTRICAL		
Input Voltage	Dual (24V AC & 12V DC ±10%)	
Power Consumption	Max. 3.5W	
MECHANICAL		
Color / Material	Ivory or Black / Plastic	
Dome Cover	Clear	
Dimensions (WxH)	Ø115.8 x 92.7mm (Ø4.56" x 3.65")	
Weight	365g (0.8 lb)	

Also available in black : SCD-3081B

SCD-3080/2080

1/3" High Resolution Varifocal Dome Camera



SCD-3080/2080



SCD-3080B/2080B

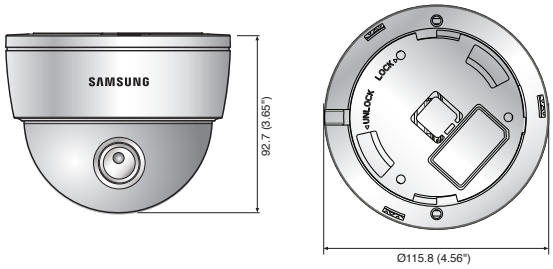


Key Features

- High resolution of 600TV lines, 700TV lines (B/W)
- Min. illumination 0.3Lux@F1.2 (Color), 0.01Lux (B/W) : SCD-3080
  0.15Lux@F1.2 (Color), 0.001Lux (B/W) : SCD-2080
- 3.9x V/F lens (2.8 ~ 11mm) : SCD-3080
  3.6x V/F lens (2.8 ~ 10mm) : SCD-2080
- WDR, VPS, intelligent Video : SCD-3080
- True Day / Night (ICR) : SCD-3080/2080, MD, SSNRIII
- Coax : Pelco-C (Coaxitron)
- Dual power, 24V AC & 12V DC

Dimensions

Unit : mm (inch)



Technical Specifications

	SCD-3080N/2080N	SCD-3080P/2080P
VIDEO		
Imaging Device	1/3" Super HAD CCD (Double scan) : SCB-3080, 1/3" Super HAD CCD : SCB-2080	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace	
Synchronization	Internal / Line lock	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 600TV lines, B/W : 700TV lines	
Min. Illumination	Color : 0.3Lux@F1.2 (50IRE), 0.0006Lux (Sens-up, 512x) : SCD-3080 0.15Lux@F1.2 (50IRE) : 0.0003Lux (Sens-up, 512x) : SCD-2080 B/W : 0.01Lux@F1.2 (50IRE), 0.00002Lux (Sens-up, 512x) : SCD-3080 0.001Lux@F1.2 (50IRE), 0.000002Lux (Sens-up, 512x) : SCD-2080	
S / N Ratio	52dB (AGC off, Weight on)	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
LENS		
Focal Length (Zoom Ratio)	2.8 ~ 11mm (3.9x) : SCD-3080, 2.8 ~ 10mm (3.6x) : SCD-2080	
Max. Aperture Ratio	1 : 1.2(Wide) ~ 2.8(Tele)	
Angular Field of View	H : 94°(Wide) ~ 26°(Tele) / V : 67°(Wide) ~ 20°(Tele) : SCD-3080 H : 94.4°(Wide) ~ 28°(Tele) / V : 69.2°(Wide) ~ 21°(Tele) : SCD-2080	
Min. Object Distance	0.2m (0.66ft)	
Lens Type	DC auto iris	
Mount Type	Board type	
PAN / TILT		
Pan Range	0° ~ 340° : SCD-3080, 0° ~ 352° : SCD-2080	
Tilt Range	0° ~ 73°	
Rotate Range	0° ~ 340° : SCD-3080, 0° ~ 348° : SCD-2080	
OPERATIONAL		
On Screen Display	English, Japanese, Spanish, French, Portuguese, Taiwanese, Korean	English, French, German, Spanish, Italian, Chinese, Russian, Polish, Czech, Romanian, Serbian, Swedish, Danish, Turkish, Portuguese
Camera Title	Off / On (Displayed 15 characters)	
Day & Night	Auto (ICR) / External / Color / B/W : SCD-3080 Auto (ICR) / Color / B/W : SCD-2080	
Backlight Compensation	Off / User BLC / HLC / SSDR / WDR : SCD-3080, BLC / HLC / Off : SCD-2080	
Wide Dynamic Range	128x (52dB): SCD-3080N	160x (52dB): SCD-3080P
Contrast Enhancement	SSDR (Off / On)	
Digital Noise Reduction	SSNRIII (Off / On)	
Digital Image Stabilization	Off / On	
Motion Detection	Off / On (8 programmable zones)	
Privacy Masking	Off / On (12 programmable zones)	
Sens-up (Frame Integration)	2x ~ 512x	
Gain Control	Off / Low / High	
White Balance	ATW / Outdoor / Indoor / Manual / AWC (1,700K° ~ 11,000K°)	
Electronic Shutter Speed	1/60 ~ 1/120,000sec	1/50 ~ 1/120,000sec
Digital Zoom	Off / On (1x ~ 16x)	
Flip	Vertical / Horizontal	
Profile	Basic / Day & Night / Backlight / ITS / Indoor / User : SCD-3080	
VPS	Off / On : SCD-3080	
Intelligent Video	Fixed / Moved / Area / Fence / Tracking / Detection / Counting : SCD-3080	
PIP	Off / On : SCD-3080	
Alarm	1 Out : SCD-3080	
Communication	Coaxial control	
Protocol	Coax : Pelco-C (Coaxitron)	
ENVIRONMENTAL		
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / Less than 90% RH	
ELECTRICAL		
Input Voltage	Dual (24V AC & 12V DC ±10%)	
Power Consumption	Max. 3.5W	
MECHANICAL		
Color / Material	Ivory or Black / Plastic	
Dome Cover	Clear	
Dimensions (WxH)	Ø115.8 x 92.7mm (Ø4.56" x 3.65")	
Weight	365g (0.8 lb) : SCD-3080, 345g (0.76 lb) : SCD-2080	

Also available in black : SCD-3080B/2080B

SCD-2080E/2060E

1/3" High Resolution Varifocal Dome Camera



SCD-2080E/2060E



SCD-2080EB/2060EB

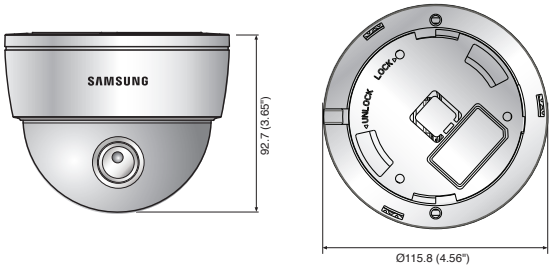


Key Features

- High resolution of 600TV lines, 700TV lines (B/W)
- Min. illumination 0.15Lux@F1.2 (Color)
- 3.6x V/F lens (2.8 ~ 10mm) : SCD-2080E
  2.4x V/F lens (2.5 ~ 6mm) : SCD-2060E
- MD, SSNRIII
- Coax : Pelco-C (Coaxitron)
- Dual power, 24V AC & 12V DC

Dimensions

Unit : mm (inch)



Technical Specifications

	SCD-2080EN/2060EN	SCD-2080EP/2060EP
VIDEO		
Imaging Device	1/3" Super HAD CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace	
Synchronization	Internal / Line lock	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 600TV lines, B/W : 700TV lines	
Min. Illumination	Color : 0.15Lux@F1.2 (50IRE), 0.0003Lux (Sens-up, 512x)	
S / N Ratio	52dB (AGC off, Weight on)	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
LENS		
Focal Length (Zoom Ratio)	2.8 ~ 10mm (3.6x) : SCD-2080E, 2.5 ~ 6mm (2.4x) : SCD-2060E	
Max. Aperture Ratio	1 : 1.2(Wide) ~ 2.8(Tele)	
Angular Field of View	H : 94.4°(Wide) ~ 28°(Tele) / V : 69.2°(Wide) ~ 21°(Tele) : SCD-2080E H : 103.4°(Wide) ~ 46.6°(Tele) / V : 77.6°(Wide) ~ 35.1°(Tele) : SCD-2060E	
Lens Type	DC auto iris	
Mount Type	Board type	
PAN / TILT		
Pan Range	0° ~ 352°	
Tilt Range	0° ~ 73°	
Rotate Range	0° ~ 348°	
OPERATIONAL		
On Screen Display	English, Japanese, Spanish, French, Portuguese, Taiwanese, Korean	English, French, German, Spanish, Italian, Chinese, Russian, Polish, Czech, Romanian, Serbian, Swedish, Danish, Turkish, Portuguese
Camera Title	Off / On (Displayed 15 characters)	
Day & Night	Auto (Electrical) / Color / B/W	
Backlight Compensation	BLC / HLC / Off	
Contrast Enhancement	SSDR (Off / On)	
Digital Noise Reduction	SSNRIII (Off / On)	
Digital Image Stabilization	Off / On	
Motion Detection	Off / On (8 programmable zones)	
Privacy Masking	Off / On (12 programmable zones)	
Sens-up (Frame Integration)	2x ~ 512x	
Gain Control	Off / Low / High	
White Balance	ATW / Outdoor / Indoor / Manual / AWC (1,700K° ~ 11,000K°)	
Electronic Shutter Speed	1/60 ~ 1/120,000sec	1/50 ~ 1/120,000sec
Digital Zoom	Off / On (1x ~ 16x)	
Flip	Vertical / Horizontal	
Communication	Coaxial control	
Protocol	Coax : Pelco-C (Coaxitron)	
ENVIRONMENTAL		
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / Less than 90% RH	
ELECTRICAL		
Input Voltage	Dual (24V AC & 12V DC ±10%)	
Power Consumption	Max. 3.5W	
MECHANICAL		
Color / Material	Ivory or Black / Plastic	
Dome COver	Clear	
Dimensions (WxH)	Ø115.8 x 92.7mm (Ø4.56" x 3.65")	
Weight	345g (0.76 lb)	

Also available in black : SCD-2080EB/2060EB

SCD-2080R

1/3" High Resolution IR Dome Camera



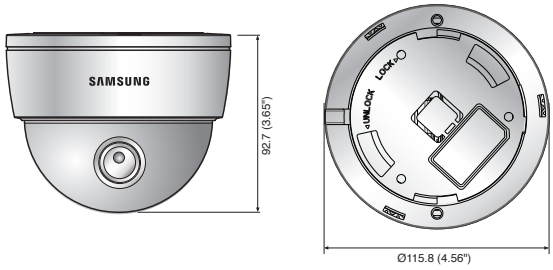


Key Features

- High resolution of 600TV lines (Color), 700TV lines (B/W)
- Min. illumination 0Lux (IR LED on), IR distance 20m
- 3.6x V/F lens (2.8 ~ 10mm)
- True Day / Night (ICR), MD, SSNRIII (3D+2D)
- Coaxial control (Pelco-C), 12V DC

Dimensions

Unit : mm (inch)



Technical Specifications

	SCD-2080RN	SCD-2080RP
VIDEO		
Imaging Device	1/3" Super HAD CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace	
Synchronization	Internal	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 600TV lines, B/W : 700TV lines	
Min. Illumination	Color : 0.15Lux@F1.2 (50IRE), 0.0003Lux (Sens-up, 512x) B/W : 0Lux (LED on)	
S / N Ratio	52dB (AGC off, Weight on)	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
LENS		
Focal Length (Zoom Ratio)	2.8 ~ 10mm (3.6x)	
Max. Aperture Ratio	1 : 1.2(Wide) ~ 2.8(Tele)	
Angular Field of View	H : 94.4°(Wide) ~ 28°(Tele) / V : 69.2°(Wide) ~ 21°(Tele)	
Min. Object Distance	0.2m (0.66ft)	
Lens Type	DC auto iris	
Mount Type	Board type	
PAN / TILT		
Pan Range	0° ~ 352°	
Tilt Range	0° ~ 73°	
Rotate Range	0° ~ 348°	
OPERATIONAL		
On Screen Display	English, Japanese, Spanish, French, Portuguese, Taiwanese, Korean	English, French, German, Spanish, Italian, Chinese, Russian, Polish, Czech, Romanian, Serbian, Swedish, Danish, Turkish, Portuguese
Camera Title	Off / On (Displayed 15 characters)	
Day & Night	Auto (ICR) / Color / B/W	
Backlight Compensation	BLC / HLC / Off	
Contrast Enhancement	SSDR (Off / On)	
Digital Noise Reduction	SSNRIII (Off / On)	
Digital Image Stabilization	Off / On	
Motion Detection	Off / On (8 programmable zones)	
Privacy Masking	Off / On (12 programmable zones)	
Sens-up (Frame Integration)	2x ~ 512x	
Gain Control	Off / Low / High	
White Balance	ATW / Outdoor / Indoor / Manual / AWC (1,700K° ~ 11,000K°)	
Electronic Shutter Speed	1/60 ~ 1/120,000sec	1/50 ~ 1/120,000sec
Digital Zoom	Off / On (1x ~ 16x)	
Flip	Vertical / Horizontal	
Communication	Coaxial control	
Protocol	Coax : Pelco-C (Coaxitron)	
IR Distance	20m (IR LED 12ea)	
ENVIRONMENTAL		
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / Less than 90% RH	
ELECTRICAL		
Input Voltage	12V DC ±10%	
Power Consumption	Max. 3.5W	
MECHANICAL		
Color / Material	Ivory / Plastic	
Dome Cover	Smoked	
Dimensions (WxH)	Ø115.8 x 92.7mm (Ø4.56" x 3.65")	
Weight	310g (0.68 lb)	

SCD-2021

1/3" High Resolution Small Dome Camera



SCD-2021



SCD-2021B

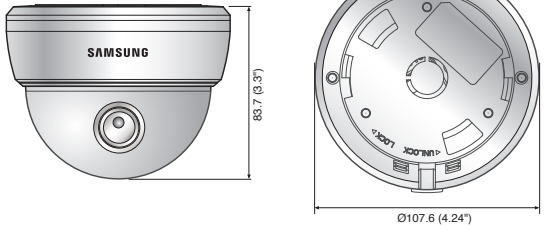


Key Features

- High resolution of 600TV lines
- Min. illumination 0.15Lux@F1.2
- Built-in fixed lens - 3.7, 8mm
- SSNRIII (3D+2D), Coaxial control
- Dual power, 24V AC & 12V DC

Dimensions

Unit : mm (inch)



Technical Specifications

	SCD-2021N	SCD-2021P
VIDEO		
Imaging Device	1/3" Super HAD CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace	
Synchronization	Internal / Line lock	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 600TV lines	
Min. Illumination	Color : 0.15Lux@F1.2 (50IRE), 0.0006Lux (Sens-up, 256x)	
S / N Ratio	52dB (AGC off, Weight on)	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
LENS		
Focal Length (Zoom Ratio)	3.7mm (Fixed), Additional 8mm	
Max. Aperture Ratio	F2.0	
Angular Field of View	H : 71˚ / V : 52˚ (3mm), H : 33˚ / V : 25˚ (8mm)	
Min. Object Distance	0.4m (1.31ft)	
Lens Type	Fixed	
Mount Type	Board type	
PAN / TILT		
Pan Range	0° ~ 352°	
Tilt Range	0° ~ 75°	
Rotate Range	0° ~ 348°	
OPERATIONAL		
On Screen Display	English, Japanese, Spanish, French, Portuguese, Taiwanese, Korean	English, French, German, Spanish, Italian, Chinese, Russian, Polish, Czech, Romanian, Serbian, Swedish, Danish, Turkish, Portuguese
Camera Title	Off / On (Displayed 15 characters)	
Day & Night	Auto (Electrical) / Color / B/W	
Backlight Compensation	BLC / HLC / Off	
Contrast Enhancement	SSDR (Off / On)	
Digital Noise Reduction	SSNRIII (Off / On)	
Digital Image Stabilization	Off / On	
Motion Detection	Off / On (8 programmable zones)	
Privacy Masking	Off / On (12 programmable zones)	
Sens-up (Frame Integration)	2x ~ 512x	
Gain Control	Off / Low / High	
White Balance	ATW / Outdoor / Indoor / Manual / AWC (1,700K° ~ 11,000K°)	
Electronic Shutter Speed	1/60 ~ 1/120,000sec	1/50 ~ 1/120,000sec
Digital Zoom	Off / On (1x ~ 16x)	
Flip	Vertical / Horizontal	
Communication	Coaxial control	
Protocol	Coax : Pelco-C (Coaxitron)	
ENVIRONMENTAL		
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / Less than 90% RH	
ELECTRICAL		
Input Voltage	Dual (24V AC & 12V DC ±10%)	
Power Consumption	Max. 3.5W	
MECHANICAL		
Color / Material	Ivory or Black / Plastic	
Dome Cover	Smoked	
Dimensions (WxH)	Ø107.6 x 83.7mm (Ø4.24" x 3.3")	
Weight	285g (0.63 lb)	

Also available in black : SCD-2021B

SCD-2020R

1/3" High Resolution Small IR Dome Camera



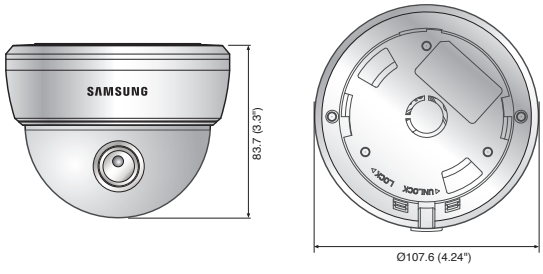


Key Features

- High resolution of 600TV lines
- Min. illumination 0Lux (IR LED on), IR distance 7m
- Built-in fixed lens (3.6mm), SSNRIII (3D+2D)
- Coaxial control, 12V DC

Dimensions

Unit : mm (inch)



Technical Specifications

	SCD-2020RN	SCD-2020RP
VIDEO		
Imaging Device	1/3" Super HAD CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace	
Synchronization	Internal	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 600TV lines, B/W : 700TV lines	
Min. Illumination	Color : 0.15Lux@F1.2 (50IRE), B/W : 0Lux (IR LED on)	
S / N Ratio	52dB (AGC off, Weight on)	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
LENS		
Focal Length (Zoom Ratio)	3.6mm	
Max. Aperture Ratio	F2.0	
Angular Field of View	H : 66˚ / V : 49˚	
Min. Object Distance	0.4m (1.31ft)	
Lens Type	Fixed	
Mount Type	Board type	
PAN / TILT		
Pan Range	0° ~ 352°	
Tilt Range	0° ~ 75°	
OPERATIONAL		
On Screen Display	English, Japanese, Spanish, French, Portuguese, Taiwanese, Korean	English, French, German, Spanish, Italian, Chinese, Russian, Polish, Czech, Romanian, Serbian, Swedish, Danish, Turkish, Portuguese
Camera Title	Off / On (Displayed 15 characters)	
Day & Night	Auto (ICR) / Color / B/W	
Backlight Compensation	BLC / HLC / Off	
Contrast Enhancement	SSDR (Off / On)	
Digital Noise Reduction	SSNRIII (Off / On)	
Digital Image Stabilization	Off / On	
Motion Detection	Off / On (8 programmable zones)	
Privacy Masking	Off / On (12 programmable zones)	
Sens-up (Frame Integration)	2x ~ 512x	
Gain Control	Off / Low / High	
White Balance	ATW / Outdoor / Indoor / Manual / AWC (1,700K° ~ 11,000K°)	
Electronic Shutter Speed	1/60 ~ 1/120,000sec	1/50 ~ 1/120,000sec
Digital Zoom	Off / On (1x ~ 16x)	
Flip	Vertical / Horizontal	
Communication	Coaxial control	
Protocol	Coax : Pelco-C (Coaxitron)	
IR Distance	7m (IR LED 8ea)	
ENVIRONMENTAL		
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / Less than 90% RH	
ELECTRICAL		
Input Voltage	12V DC ±10%	
Power Consumption	Max. 2.5W	
MECHANICAL		
Color / Material	Ivory / Plastic	
Dome Cover	Clear	
Dimensions (WxH)	Ø107.6 x 83.7mm (Ø4.24" x 3.3")	
Weight	280g (0.62 lb)	

SCD-2010

FC CE

1/3" High Resolution Mini Dome Camera



SCD-2010



SCD-2010B

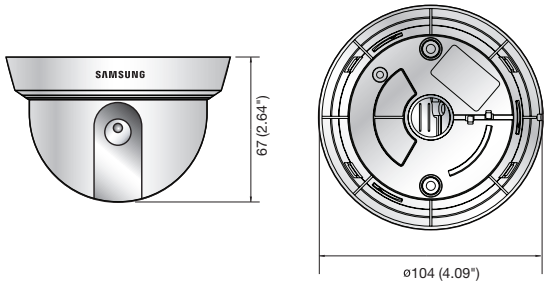


Key Features

- High resolution of 600TV lines
- Min. illumination 0.04Lux@F1.2
- Built-in fixed lens - 3mm : SCD-2010
- Coaxial control, 12V DC

Dimensions

Unit : mm (inch)



Technical Specifications

	SCD-2010N	SCD-2010P
VIDEO		
Imaging Device	1/3" Super HAD CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace	
Synchronization	Internal	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 600TV lines	
Min. Illumination	Color : 0.04Lux@F1.2	
S / N Ratio	52dB (AGC off, Weight on)	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
LENS		
Focal Length (Zoom Ratio)	3mm	
Max. Aperture Ratio	F2.0	
Angular Field of View	H : 95˚ / V : 71˚	
Min. Object Distance	0.4m (1.31ft)	
Lens Type	Fixed	
Mount Type	Board type	
PAN / TILT		
Pan Range	0° ~ 352°	
Tilt Range	0° ~ 75°	
OPERATIONAL		
On Screen Display	English, Japanese, Spanish, French, Portuguese, Taiwanese, Korean	English, French, German, Spanish, Italian, Chinese, Russian, Polish, Czech, Romanian, Serbian, Swedish, Danish, Turkish, Portuguese
Camera Title	Off / On (Displayed 15 characters)	
Day & Night	Auto (Electrical) / Color / B/W	
Backlight Compensation	BLC / HLC / Off	
Contrast Enhancement	SSDR (Off / On)	
Digital Noise Reduction	SSNRIII (Off / On)	
Digital Image Stabilization	Off / On	
Motion Detection	Off / On (8 programmable zones)	
Privacy Masking	Off / On (12 programmable zones)	
Sens-up (Frame Integration)	2x ~ 512x	
Gain Control	Off / Low / High	
White Balance	ATW / Outdoor / Indoor / Manual / AWC (1,700K° ~ 11,000K°)	
Electronic Shutter Speed	1/60 ~ 1/120,000sec	1/50 ~ 1/120,000sec
Digital Zoom	Off / On (1x ~ 16x)	
Flip	Vertical / Horizontal	
Communication	Coaxial control	
Protocol	Coax : Pelco-C (Coaxitron)	
ENVIRONMENTAL		
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / Less than 90% RH	
ELECTRICAL		
Input Voltage	12V DC ±10%	
Power Consumption	Max. 1.8W	
MECHANICAL		
Color / Material	Ivory or Black / Plastic (Dome cover : clear)	
Dimensions (WxH)	Ø104.0 x 67.0mm (Ø4.09" x 2.64")	
Weight	180g (0.4 lb)	

Also available in black : SCD-2010B

SCD-2010F

1/3" High Resolution Compact Flat Dome Camera



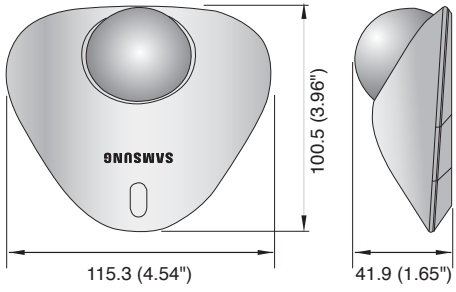


Key Features

- High resolution of 600TV lines
- Min. Illumination 0.04Lux@F1.2
- Built-in fixed lens (3mm)
- Coaxial control (Pelco-C), 12V DC

Dimensions

Unit : mm (inch)



Technical Specifications

	SCD-2010FN	SCD-2010FP
VIDEO		
Imaging Device	1/3" Super HAD CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace	
Synchronization	Internal	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 600TV lines	
Min. Illumination	Color : 0.04Lux (Sens-up, 2x)	
S / N Ratio	52dB (AGC off, Weight on)	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
LENS		
Focal Length (Zoom Ratio)	3mm	
Max. Aperture Ratio	F2.0	
Angular Field of View	H : 89.5° / V : 67.2°	
Min. Object Distance	0.4m (1.31ft)	
Lens Type	Fixed	
Mount Type	Board type	
PAN / TILT		
Pan Range	±10°	
Tilt Range	0° ~ 90°	
OPERATIONAL		
On Screen Display	English, Japanese, Spanish, French, Portuguese, Taiwanese, Korean	English, French, German, Spanish, Italian, Chinese, Russian, Polish, Czech, Romanian, Serbian, Swedish, Danish, Turkish, Portuguese
Camera Title	Off / On (Displayed 15 characters)	
Day & Night	Auto (Electrical) / Color / B/W	
Backlight Compensation	BLC / HLC / Off	
Contrast Enhancement	SSDR (Off / On)	
Digital Noise Reduction	SSNRIII (Off / On)	
Digital Image Stabilization	Off / On	
Motion Detection	Off / On (8 programmable zones)	
Privacy Masking	Off / On (12 programmable zones)	
Sens-up (Frame Integration)	2x ~ 512x	
Gain Control	Off / Low / High	
White Balance	ATW / Outdoor / Indoor / Manual / AWC (1,700K° ~ 11,000K°)	
Electronic Shutter Speed	1/60 ~ 1/120,000sec	1/50 ~ 1/120,000sec
Digital Zoom	Off / On (1x ~ 16x)	
Flip	Vertical / Horizontal	
Communication	Coaxial control	
Protocol	Coax : Pelco-C (Coaxitron)	
ENVIRONMENTAL		
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / Less than 90% RH	
ELECTRICAL		
Input Voltage	12V DC ±10%	
Power Consumption	Max. 1.8W	
MECHANICAL		
Color / Material	Ivory / Plastic	
Dome Cover	Clear	
Dimensions (WxHxD)	115.3 x 100.5 x 41.9mm (4.54" x 3.96" x 1.65")	
Weight	140g (0.31 lb)	

SUD-3080/3080F

1/3" High Resolution WDR UTP Dome Camera



SUD-3080



SUD-3080F



Key Features

- High resolution of 600TV lines (Color), 700TV lines (B/W)
- Min. illumination 0.3Lux@F1.2 (Color), 0.01Lux (B/W)
- 3.9x V/F lens (2.8 ~ 11mm), WDR, VPS
- True Day / Night (ICR), Intelligent video, MD, SSNRIII (3D+2D)
- Built-in UTP TX, Coaxial control (Pelco-C)
- Dual power, 24V AC & 12V DC, also operates at 28V AC ±10%

UTP Accessories



4CH UTP Power Supply Hub
SPU-400



1CH UTP Transceiver
SPU-100TR

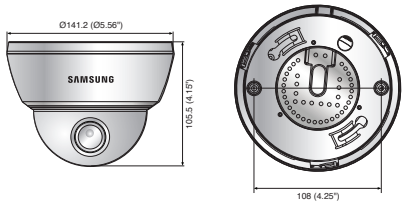


4CH UTP Receiver
SPU-400R

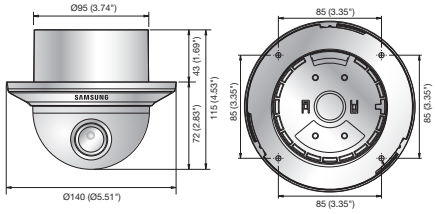
Dimensions

Unit : mm (inch)

SUD-3080



SUD-3080F



Technical Specifications

	SUD-3080N/3080FN	SUD-3080P/3080FP
VIDEO		
Imaging Device	1/3" Super HAD CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace	
Synchronization	Internal / Line lock	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 600TV lines, B/W : 700TV lines	
Min. Illumination	Color : 0.3Lux@F1.2 (50IRE), 0.0006Lux (Sens-up, 512x) B/W : 0.01Lux@F1.2 (50IRE), 0.00002Lux (Sens-up, 512x)	
S / N Ratio	52dB (AGC off, Weight on)	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
UTP Output	Built-in UTP TX [Maximum transmission length 900m (3000ft)] : Balanced differential signal 100Ω	
LENS		
Focal Length (Zoom Ratio)	2.8 ~ 11mm (3.9x)	
Max. Aperture Ratio	1 : 1.2(Wide) ~ 2.8(Tele)	
Angular Field of View	H : 102˚(Wide) ~ 28˚(Tele) / V : 73˚(Wide) ~ 21˚(Tele)	
Min. Object Distance	0.2m (0.66ft)	
Lens Type	DC auto iris	
Mount Type	Board type	
PAN / TILT		
Pan Range	0° ~ 352°	
Tilt Range	0° ~ 73°	
Rotate Range	0° ~ 348°	
OPERATIONAL		
On Screen Display	English, Japanese, Spanish, French, Portuguese, Taiwanese, Korean	English, French, German, Spanish, Italian, Chinese, Russian, Polish, Czech, Romanian, Serbian, Swedish, Danish, Turkish, Portuguese
Camera Title	Off / On (Displayed 15 characters)	
Day & Night	Auto (ICR) / External / Color / B/W	
Backlight Compensation	Off / User BLC / HLC / SSDR / WDR	
Wide Dynamic Range	128x (52dB)	160x (52dB)
Contrast Enhancement	SSDR (Off / On)	
Digital Noise Reduction	SSNRIII (Off / On)	
Digital Image Stabilization	Off / On	
Motion Detection	Built-in	
Privacy Masking	Off / On (12 programmable zones)	
Sens-up (Frame Integration)	2x ~ 512x	
Gain Control	Off / Low / High	
White Balance	ATW / Outdoor / Indoor / Manual / AWC (1,700K° ~ 11,000K°)	
Electronic Shutter Speed	1/60 ~ 1/120,000sec	1/50 ~ 1/120,000sec
Digital Zoom	Off / On (1x ~ 16x)	
Flip	Vertical / Horizontal	
Profile	Basic / Day & Night / Backlight / ITS / Indoor / User	
VPS	Off / On	
Intelligent Video	Fixed / Moved / Area / Fence / Tracking / Detection / Counting	
PIP	Off / On	
Alarm	1 Out	
Communication	Coaxial control, RS-485	
Protocol	Coax : Pelco-C (Coaxitron) RS-485 : Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon	
ENVIRONMENTAL		
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / Less than 90% RH	
ELECTRICAL		
Input Voltage	28V AC ±10%, 24V AC, 12V DC±10%	
Power Consumption	Max. 4.0W	
MECHANICAL		
Color / Material	Ivory, Plastic	
Dome Cover	Clear	
Dimensions (WxH)	Ø141.2 x 105.5mm (Ø5.56" x 4.15") : SUD-3080, Ø140.0 x 115.0mm (Ø5.51" x 4.53") : SUD-3080F	
Weight	520g (1.15 lb) : SUD-3080, 435g (0.96 lb) : SUD-3080F	

SUD-2080/2080F

1/3" High Resolution Varifocal UTP Dome Camera



SUD-2080 SUD-2080F

600TVL | 0.15Lux | 3.6x V/F Lens | UTP Driver Tx | 12VDC 24VAC 28VAC

Key Features

- High resolution of 600TV lines (Color), 700TV lines (B/W)
- Min. illumination 0.15Lux@F1.2 (Color), 0.001Lux (B/W)
- 3.6x V/F lens (2.8 ~ 10mm)
- True Day / Night (ICR), MD, SSNRIII (3D+2D)
- Built-in UTP TX, Coaxial control (Pelco-C)
- Dual power, 24V AC & 12V DC, also operates at 28V AC ±10%

UTP Accessories



4CH UTP Power Supply Hub
SPU-400



1CH UTP Transceiver
SPU-100TR

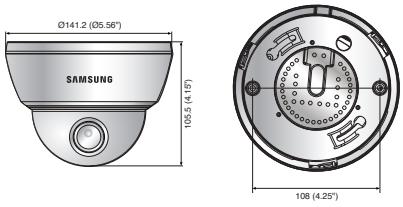


4CH UTP Receiver
SPU-400R

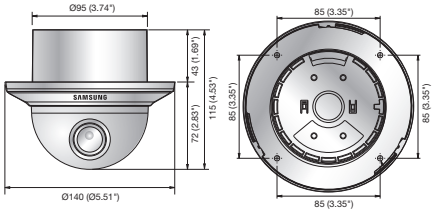
Dimensions

Unit : mm (inch)

SUD-2080



SUD-2080F



Technical Specifications

	SUD-2080N/2080FN	SUD-2080P/2080FP
VIDEO		
Imaging Device	1/3" Super HAD CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace	
Synchronization	Internal / Line lock	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 600TV lines, B/W : 700TV lines	
Min. Illumination	Color : 0.15Lux@F1.2 (50IRE), 0.0003Lux (Sens-up, 512x) B/W : 0.001Lux@F1.2 (50IRE), 0.000002Lux (Sens-up, 512x)	
S / N Ratio	52dB (AGC off, Weight on)	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
UTP Output	Built-in UTP TX [Maximum transmission length 900m (3000ft)] : Balanced differential signal 100Ω	
LENS		
Focal Length (Zoom Ratio)	2.8 ~ 10mm (3.6x)	
Max. Aperture Ratio	1 : 1.2(Wide) ~ 2.8(Tele)	
Angular Field of View	H : 94.4°(Wide) ~ 28°(Tele) / V : 69.2°(Wide) ~ 21°(Tele)	
Min. Object Distance	0.2m (0.66ft)	
Lens Type	DC auto iris	
Mount Type	Board type	
PAN / TILT		
Pan Range	0° ~ 352°	
Tilt Range	0° ~ 73°	
Rotate Range	0° ~ 348°	
OPERATIONAL		
On Screen Display	English, Japanese, Spanish, French, Portuguese, Taiwanese, Korean	English, French, German, Spanish, Italian, Chinese, Russian, Polish, Czech, Romanian, Serbian, Swedish, Danish, Turkish, Portuguese
Camera Title	Off / On (Displayed 15 characters)	
Day & Night	Auto (ICR) / Color / B/W	
Backlight Compensation	BLC / HLC / Off	
Contrast Enhancement	SSDR (Off / On)	
Digital Noise Reduction	SSNRIII (Off / On)	
Digital Image Stabilization	Off / On	
Motion Detection	Off / On (8 programmable zones)	
Privacy Masking	Off / On (12 programmable zones)	
Sens-up (Frame Integration)	2x ~ 512x	
Gain Control	Off / Low / High	
White Balance	ATW / Outdoor / Indoor / Manual / AWC (1,700K° ~ 11,000K°)	
Electronic Shutter Speed	1/60 ~ 1/120,000sec	1/50 ~ 1/120,000sec
Digital Zoom	Off / On (1x ~ 16x)	
Flip	Vertical / Horizontal	
Communication	Coaxial control, RS-485	
Protocol	Coax : Pelco-C (Coaxitron) RS-485 : Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon	
ENVIRONMENTAL		
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / Less than 90% RH	
ELECTRICAL		
Input Voltage	28V AC ±10%, 24V AC, 12V DC±10%	
Power Consumption	Max. 3.5W	
MECHANICAL		
Color / Material	Ivory, Plastic	
Dome Cover	Clear	
Dimensions (WxH)	Ø141.2 x 105.5mm (Ø5.56" x 4.15") : SUD-2080, Ø140.0 x 115.0mm (Ø5.51" x 4.53") : SUD-2080F	
Weight	520g (1.15 lb) : SUD-2080, 435g (0.96 lb) : SUD-2080F	

SCV-3120

1/4" High Resolution 12x WDR Vandal-Resistant Dome Camera





Key Features

- High resolution of 600TV lines (Color), 700TV lines (B/W)
- Min. illumination 0.7Lux@F1.65 (Color), 0.07Lux (B/W)
- Powerful 12x zoom (3.69 ~ 44.32mm), digital 16x
- WDR, VPS, True Day / Night (ICR), Intelligent video, MD
- IP66, Coax : CCVC, RS-485
- Dual power, 24V AC & 12V DC

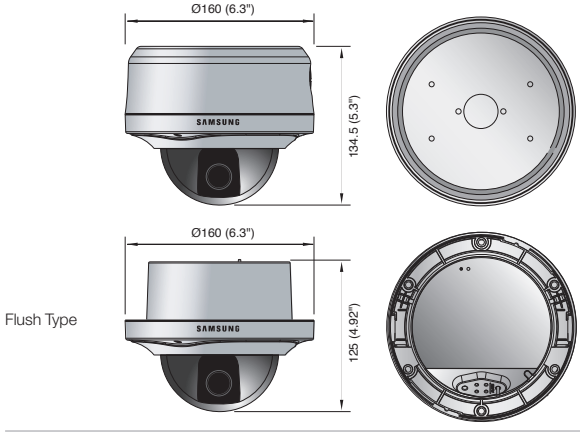
Accessories (Optional)



SCX-300WM SCX-300CM SCX-300HM SCX-300LM SCX-300PM SCX-300KM

Dimensions

Unit : mm (inch)



Flush Type

Technical Specifications

	SCV-3120N	SCV-3120P
VIDEO		
Imaging Device	1/4" Double scan CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace	
Synchronization	Internal	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 600TV lines, B/W : 700TV lines	
Min. Illumination	Color : 0.7Lux@F1.65 (50IRE), 0.001Lux (Sens-up, 512x) B/W : 0.07Lux@F1.65 (50IRE), 0.0001Lux (Sens-up, 512x)	
S / N Ratio	52dB (AGC off, Weight on)	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
LENS		
Focal Length (Zoom Ratio)	3.69 ~ 44.32mm (12x)	
Max. Aperture Ratio	1 : 1.65(Wide) ~ 3.7(Tele)	
Angular Field of View	H : 54.44°(Wide) ~ 4.64°(Tele) / V : 41.42°(Wide) ~ 3.52°(Tele)	
Min. Object Distance	1m (3.28ft)	
Focus Control	Auto / Manual / One-AF	
Zoom Movement Speed	1.9sec (Wide to tele)	
PAN / TILT		
Pan Range	0° ~ 355°	
Tilt Range	0° ~ 90°	
Rotate Range	0° ~ 355°	
OPERATIONAL		
On Screen Display	English, Japanese, Spanish, French, Portuguese, Taiwanese, Korean	English, French, German, Spanish, Italian, Chinese, Russian, Polish, Czech, Romanian, Serbian, Swedish, Danish, Turkish, Portuguese
Camera Title	Off / On (Displayed 54 characters)	
Day & Night	Day / Night / Auto / Ext	
Backlight Compensation	Off / On (Area setting)	
Wide Dynamic Range	128x (52dB)	160x (52dB)
Contrast Enhancement	XDR (Off / Low / Mid / High)	
Digital Noise Reduction	Adaptive 3D+2D (Off / Low / Mid / High / User)	
Digital Image Stabilization	Off / On	
Motion Detection	Off / Tracking / Detection	
Privacy Masking	Off / On (12 programmable zones with polygonal masking)	
Sens-up (Frame Integration)	2x ~ 512x	
Gain Control	Off / On	
White Balance	ATW1 / ATW2 / AWC (Manual) / 3200K / 5600K	
Electronic Shutter Speed	1/60 ~ 1/120,000sec	1/50 ~ 1/120,000sec
Digital Zoom	Off / On (1x ~ 16x)	
Flip	Vertical / Horizontal	
Profile	Standard / ITS / Backlight / Day & Night / Gaming / Custom	
VPS	Off / On	
Intelligent Video	Fixed / Moved	
PIP	Off / On	
Alarm	1 Out	
Communication	Coaxial control, RS-485	
Protocol	Coax : CCVC RS-485 : Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon	
ENVIRONMENTAL		
Operating Temperature / Humidity	-50°C ~ +50°C (-58°F ~ +122°F) / Up to 100% RH	
Ingress Protection	IP66	
ELECTRICAL		
Input Voltage	Dual (24V AC & 12V DC ±10%)	
Power Consumption	Max. 6W	
MECHANICAL		
Color / Material	Light gray / Aluminum	
Dome Cover	Polycarbonate / Clear	
Dimensions (WxH)	Ø160.0 x 134.5mm (Ø6.3" x 5.3")	
Weight	1.28Kg (2.82 lb)	

SCV-2120

1/4" High Resolution 12x Vandal-Resistant Dome Camera





Key Features

- High resolution of 600TV lines (Color), 700TV lines (B/W)
- Min. illumination 0.2Lux@F1.67 (Color), 0.02Lux (B/W)
- Powerful 12x zoom (3.94 ~ 46.05mm), digital 16x
- MD, SSNRIII
- IP66, Coaxial control (Pelco-C), RS-485
- Dual power, 24V AC & 12V DC

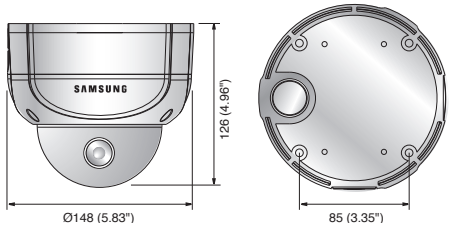
Accessories (Optional)



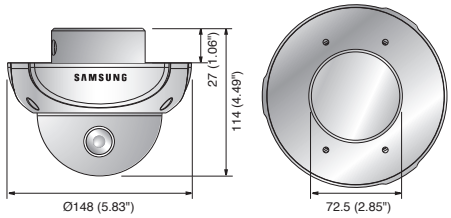
SBP-300WM1 SBP-300WM SBP-300CM SBP-300HM1 SBP-300LM SBP-300PM SBP-300KM

Dimensions

Unit : mm (inch)



Flush Type



Technical Specifications

	SCV-2120N	SCV-2120P
VIDEO		
Imaging Device	1/4" Super HAD CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace	
Synchronization	Internal / Line lock	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 600TV lines, B/W : 700TV lines	
Min. Illumination	Color : 0.2Lux@F1.67 (50IRE), 0.0004Lux (Sens-up, 512x) B/W : 0.02Lux@F1.67 (50IRE), 0.00004Lux (Sens-up, 512x)	
S / N Ratio	52dB (AGC off, Weight on)	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
LENS		
Focal Length (Zoom Ratio)	3.94 ~ 46.05mm (Optical 12x)	
Max. Aperture Ratio	1 : 1.67(Wide) ~ 3.7(Tele)	
Angular Field of View	H : 51.54°(Wide) ~ 4.5°(Tele) / V : 39.24°(Wide) ~ 3.38°(Tele)	
Min. Object Distance	1.8m (5.91ft)	
Focus Control	Auto / Manual / One shot	
Zoom Movement Speed	1.9sec (Wide to tele)	
PAN / TILT		
Pan Range	0° ~ 340°	
Tilt Range	0° ~ 146°	
Rotate Range	0° ~ 340°	
OPERATIONAL		
On Screen Display	English, Japanese, Spanish, French, Portuguese, Taiwanese, Korean	English, French, German, Spanish, Italian, Chinese, Russian, Polish, Czech, Romanian, Serbian, Swedish, Danish, Turkish, Portuguese
Camera Title	Off / On (Displayed 15 characters)	
Day & Night	Auto / Color / B/W	
Backlight Compensation	BLC / HLC / Off	
Contrast Enhancement	SSDR (Off / On)	
Digital Noise Reduction	SSNRIII (Off / On)	
Digital Image Stabilization	Off / On	
Motion Detection	Off / On (8 programmable zones)	
Privacy Masking	Off / On (12 programmable zones)	
Sens-up (Frame Integration)	2x ~ 512x	
Gain Control	Off / On	
White Balance	ATW / Outdoor / Indoor / Manual / AWC (1,700K° ~ 11,000K°)	
Electronic Shutter Speed	1/60 ~ 1/120,000sec	1/50 ~ 1/120,000sec
Digital Zoom	Off / On (1x ~ 16x)	
Flip	Vertical / Horizontal	
Communication	Coaxial control, RS-485	
Protocol	Coax : Pelco-C (Coaxitron) RS-485 : Samsung-T/E, Pelco-D/P, Vicon, Honeywell, Panasonic, Bosch, AD	
ENVIRONMENTAL		
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) /Up to 100% RH	
Ingress Protection	IP66	
ELECTRICAL		
Input Voltage	Dual (24V AC & 12V DC ±10%)	
Power Consumption	Max. 3.5W	
MECHANICAL		
Color / Material	Ivory / Aluminum	
Dome Cover	Polycarbonate / Clear	
Dimensions (WxH)	Ø148.0 x 126.0mm (Ø5.83" x 4.96")	
Weight	1.38Kg (3.04 lb)	

SCV-3080/2080

1/3" High Resolution Vandal-Resistant Dome Camera





Key Features

- High resolution of 600TV lines (Color), 700TV lines (B/W)
- Min. illumination 0.3Lux@F1.2 (Color), 0.01Lux (B/W) : SCV-3080
  Min. illumination 0.15Lux@F1.2 (Color), 0.001Lux (B/W) : SCV-2080
- 3.9x V/F lens (2.8 ~ 11mm), WDR, VPS, True Day / Night (ICR),
  Intelligent video : SCV-3080
  3.6x V/F lens (2.8 ~ 10mm), True Day / Night (ICR), MD,
  SSNRIII (3D+2D) : SCV-2080
- IP66, Coaxial control (Pelco-C)

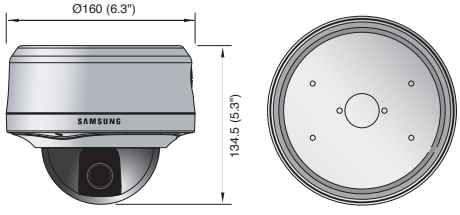
Accessories (Optional)



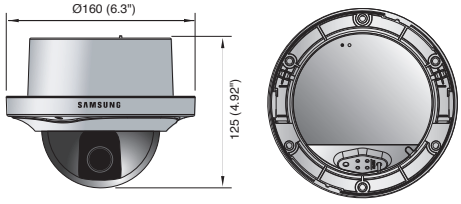
SCX-300WM SCX-300CM SCX-300HM SCX-300LM SCX-300PM SCX-300KM

Dimensions

Unit : mm (inch)



Flush Type



Technical Specifications

	SCV-3080N/2080N	SCV-3080P/2080P
VIDEO		
Imaging Device	1/3" Super HAD CCD (Double scan) : SCV-3080, 1/3" Super HAD CCD : SCV-2080	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace	
Synchronization	Internal / Line lock	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 600TV lines, B/W : 700TV lines	
Min. Illumination	Color : 0.3Lux@ F1.2 (50IRE), 0.0006Lux (Sens-up, 512x) : SCV-3080 0.15Lux@ F1.2 (50IRE), 0.0003Lux (Sens-up, 512x) : SCV-2080 B/W : 0.01Lux@ F1.2 (50IRE), 0.00002Lux (Sens-up, 512x) : SCV-3080 0.001Lux@ F1.2 (50IRE), 0.000002Lux (Sens-up, 512x) : SCV-2080	
S / N Ratio	52dB (AGC off, Weight on)	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
LENS		
Focal Length (Zoom Ratio)	2.8 ~ 11mm (3.9x) : SCV-3080, 2.8 ~ 10mm (3.6x) : SCV-2080	
Max. Aperture Ratio	1 : 1.2(Wide) ~ 2.8(Tele)	
Angular Field of View	H : 102˚(Wide) ~ 28˚(Tele) / V : 73˚(Wide) ~ 21˚(Tele) : SCV-3080 H : 94.4˚(Wide) ~ 28˚(Tele) / V : 69.2˚(Wide) ~ 21˚(Tele) : SCV-2080	
Min. Object Distance	0.2m (0.66ft)	
Lens Type	DC auto iris	
Mount Type	Board type	
PAN / TILT		
Pan Range	0° ~ 355°	
Tilt Range	0° ~ 90°	
Rotate Range	0° ~ 355°	
OPERATIONAL		
On Screen Display	English, Japanese, Spanish, French, Portuguese, Taiwanese, Korean	English, French, German, Spanish, Italian, Chinese, Russian, Polish, Czech, Romanian, Serbian, Swedish, Danish, Turkish, Portuguese
Camera Title	Off / On (Displayed 15 characters)	
Day & Night	Auto (ICR) / External / Color / B/W : SCV-3080, Auto (ICR) / Color / B/W : SCV-2080	
Backlight Compensation	Off / User BLC / HLC / SSDR / WDR : SCV-3080, BLC / HLC / Off : SCV-2080	
Wide Dynamic Range	128x (52dB): SCV-3080	160x (52dB) : SCV-3080
Contrast Enhancement	SSDR (Off / On)	
Digital Noise Reduction	SSNRIII (Off / On)	
Digital Image Stabilization	Off / On	
Motion Detection	Built-in : SCV-3080, Off / On (8 programmable zones) : SCV-2080	
Privacy Masking	Off / On (12 programmable zones)	
Sens-up (Frame Integration)	2x ~ 512x	
Gain Control	Off / Low / High	
White Balance	ATW / Outdoor / Indoor / Manual / AWC (1,700K° ~ 11,000K°)	
Electronic Shutter Speed	1/60 ~ 1/120,000sec	1/50 ~ 1/120,000sec
Digital Zoom	Off / On (1x ~ 16x)	
Flip	Vertical / Horizontal	
Profile	Off / H-Rev / V-Rev / HV-Rev : SCV-3080, H-Rev (Off / On) / V-Rev (Off / On) : SCV-2080	
VPS	Basic / Day & Night / Backlight / ITS / Indoor / User : SCV-3080	
Intelligent Video	Fixed / Moved / Area / Fence / Tracking / Detection / Counting : SCV-3080	
PIP	Off / On : SCV-3080	
Alarm	1 Out : SCV-3080	
Communication	Coaxial control	
Protocol	Coax : Pelco-C (Coaxitron)	
ENVIRONMENTAL		
Operating Temperature / Humidity	-50°C ~ +50°C (-58°F ~ +122°F) / Up to 100% RH	
Ingress Protection	IP66	
ELECTRICAL		
Input Voltage	Dual (24V AC & 12V DC ±10%), Built-in fan & heater (24V AC±10%)	
Power Consumption	Max. 3.8W / Max. 8W (Fan & heater on) : SCV-3080, Max. 4.0W / Max. 8.3W (Fan & heater on) : SCV-2080	
MECHANICAL		
Color / Material	Light gray / Aluminum	
Dome Cover	Polycarbonate / Clear	
Dimensions (WxH)	Ø160.0 x 134.5mm (Ø6.3" x 5.3")	
Weight	1.26Kg (2.78 lb)	

SCV-2060

1/3" High Resolution Vandal-Resistant Dome Camera



600TVL | 0.15Lux | 2.3x V/F Lens | D&N ICR | DUAL POWER

Key Features

- High resolution of 600TV lines (Color), 700TV lines (B/W)
- Min. illumination 0.15Lux@F1.2 (Color), 0.001Lux (B/W)
- 2.3x V/F lens (2.5 ~ 6mm), True Day / Night (ICR) MD, SSNRIII (3D+2D)
- IP66, Coaxial control (Pelco-C), RS-485

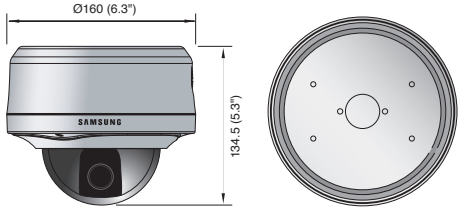
Accessories (Optional)



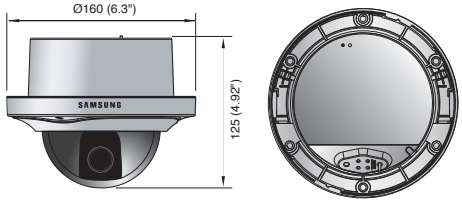
SCX-300WM SCX-300CM SCX-300HM SCX-300LM SCX-300PM SCX-300KM

Dimensions

Unit : mm (inch)



Flush Type



Technical Specifications

	SCV-2060N	SCV-2060P
VIDEO		
Imaging Device	1/3" Super HAD CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace	
Synchronization	Internal / Line lock	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 600TV lines, B/W : 700TV lines	
Min. Illumination	Color : 0.15Lux@F1.2 (50IRE), 0.0003Lux (Sens-up, 512x) B/W : 0.001Lux@F1.2 (50IRE), 0.000002Lux (Sens-up, 512x)	
S / N Ratio	52dB (AGC off, Weight on)	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
LENS		
Focal Length (Zoom Ratio)	2.5 ~ 6mm (2.4x)	
Max. Aperture Ratio	1 : 1.2(Wide) ~ 1.7(Tele)	
Angular Field of View	H : 103.4°(Wide) ~ 46.6°(Tele) / V : 77.6°(Wide) ~ 35.1°(Tele)	
Lens Type	DC auto iris	
Mount Type	Board type	
PAN / TILT		
Pan Range	0° ~ 355°	
Tilt Range	0° ~ 90°	
Rotate Range	0° ~ 355°	
OPERATIONAL		
On Screen Display	English, Japanese, Spanish, French, Portuguese, Taiwanese, Korean	English, French, German, Spanish, Italian, Chinese, Russian, Polish, Czech, Romanian, Serbian, Swedish, Danish, Turkish, Portuguese
Camera Title	Off / On (Displayed 15 characters)	
Day & Night	Auto (ICR) / Color / B/W	
Backlight Compensation	BLC / HLC / Off	
Contrast Enhancement	SSDR (Off / On)	
Digital Noise Reduction	SSNRIII (Off / On)	
Digital Image Stabilization	Off / On	
Motion Detection	Off / On (8 programmable zones)	
Privacy Masking	Off / On (12 programmable zones)	
Sens-up (Frame Integration)	2x ~ 512x	
Gain Control	Off / Low / High	
White Balance	ATW / Outdoor / Indoor / Manual / AWC (1,700K° ~ 11,000K°)	
Electronic Shutter Speed	1/60 ~ 1/120,000sec	1/50 ~ 1/120,000sec
Digital Zoom	Off / On (1x ~ 16x)	
Flip	Vertical / Horizontal	
Communication	Coaxial control	
Protocol	Coax : Pelco-C (Coaxitron)	
ENVIRONMENTAL		
Operating Temperature / Humidity	-50°C ~ +50°C (-58°F ~ +122°F) / Up to 100% RH	
Ingress Protection	IP66	
ELECTRICAL		
Input Voltage	Dual (24V AC & 12V DC ±10%), Built-in fan & heater (24V AC ±10%)	
Power Consumption	Max. 3.8W / Max. 7.8W (Fan & heater on)	
MECHANICAL		
Color / Material	Light gray / Aluminum	
Dome Cover	Polycarbonate / Clear	
Dimensions (WxH)	Ø160.0 x 134.5mm (Ø6.3" x 5.3")	
Weight	1.28Kg (2.82 lb)	

SCV-2010F

1/3" High Resolution Compact Vandal-Resistant Flat Camera



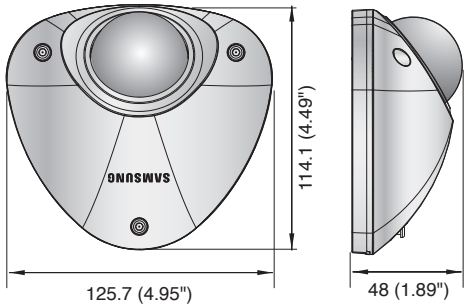


Key Features

- High resolution of 600TV lines
- Min. illumination 0.04Lux@F1.2
- Built-in fixed lens (3mm)
- Coaxial control (Pelco-C)
- 12V DC

Dimensions

Unit : mm (inch)



Technical Specifications

	SCV-2010FN	SCV-2010FP
VIDEO		
Imaging Device	1/3" Super HAD CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace	
Synchronization	Internal	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 600TV lines	
Min. Illumination	Color : 0.04Lux (Sens-up, 2x)	
S / N Ratio	52dB (AGC off, Weight on)	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
LENS		
Focal Length (Zoom Ratio)	3mm	
Max. Aperture Ratio	F2.0	
Angular Field of View	H : 89.5° / V : 67.2°	
PAN / TILT		
Pan Range	±10°	
Tilt Range	0° ~ 90°	
OPERATIONAL		
On Screen Display	English, Japanese, Spanish, French, Portuguese, Taiwanese, Korean	English, French, German, Spanish, Italian, Chinese, Russian, Polish, Czech, Romanian, Serbian, Swedish, Danish, Turkish, Portuguese
Camera Title	Off / On (Displayed 15 characters)	
Day & Night	Auto (Electrical) / Color / B/W	
Backlight Compensation	BLC / HLC / Off	
Contrast Enhancement	SSDR (Off / On)	
Digital Noise Reduction	SSNRIII (Off / On)	
Digital Image Stabilization	Off / On	
Motion Detection	Off / On (8 programmable zones)	
Privacy Masking	Off / On (12 programmable zones)	
Sens-up (Frame Integration)	2x ~ 512x	
Gain Control	Low / High / Off	
White Balance	ATW / Outdoor / Indoor / Manual / AWC (1,700K° ~ 11,000K°)	
Electronic Shutter Speed	1/60 ~ 1/120,000sec	1/50 ~ 1/120,000sec
Digital Zoom	Off / On (1x ~ 16x)	
Flip	Vertical / Horizontal	
Communication	Coaxial control	
Protocol	Coax : Pelco-C (Coaxitron)	
ENVIRONMENTAL		
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / Up to 100% RH	
Ingress Protection	IP66	
ELECTRICAL		
Input Voltage	12V DC ±10%	
Power Consumption	Max. 1.8W	
MECHANICAL		
Color / Material	Ivory / Aluminum	
Dome Cover	Polycarbonate / Clear	
Dimensions (WxHxD)	125.2 x 52.0 x 115.2mm (4.93" x 2.05" x 4.54")	
Weight	410g (0.9 lb)	

SCV-2080R

1/3" High Resolution IR Vandal-Resistant Dome Camera





Key Features

- High resolution of 600TV lines, 700TV lines (B/W)
- Min. illumination 0Lux (IR LED on), IR distance 30m
- 3.6x V/F lens (2.8 ~ 10mm), True Day / Night (ICR)
  MD, SSNRIII (3D+2D)
- IP66, Coaxial control (Pelco-C), RS-485
- Dual power, 24V AC & 12V DC

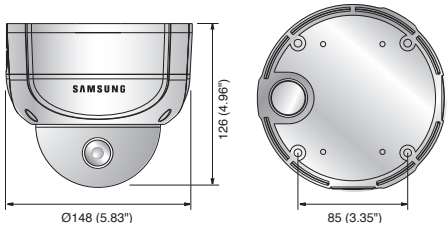
Accessories (Optional)



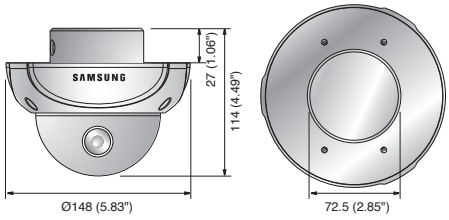
SBP-300WM1 SBP-300WM SBP-300CM SBP-300HM1 SBP-300LM SBP-300PM SBP-300KM

Dimensions

Unit : mm (inch)



Flush Type



Technical Specifications

	SCV-2080RN	SCV-2080RP
VIDEO		
Imaging Device	1/3" Super HAD CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace	
Synchronization	Internal / Line lock	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 600TV lines, B/W : 700TV lines	
Min. Illumination	Color : 0.15Lux@F1.2 (50IRE), 0.0003Lux (Sens-up, 512x) B/W : 0Lux (LED on)	
S / N Ratio	52dB (AGC off, Weight on)	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
LENS		
Focal Length (Zoom Ratio)	2.8 ~ 10mm (3.6x)	
Max. Aperture Ratio	1 : 1.2(Wide) ~ 2.8(Tele)	
Angular Field of View	H : 94.4°(Wide) ~ 28°(Tele) / V : 69.2°(Wide) ~ 21°(Tele)	
Min. Object Distance	0.2m (0.66ft)	
Lens Type	DC auto iris	
Mount Type	Board type	
PAN / TILT		
Pan Range	0° ~ 340°	
Tilt Range	0° ~ 146°	
Rotate Range	0° ~ 340°	
OPERATIONAL		
On Screen Display	English, Japanese, Spanish, French, Portuguese, Taiwanese, Korean	English, French, German, Spanish, Italian, Chinese, Russian, Polish, Czech, Romanian, Serbian, Swedish, Danish, Turkish, Portuguese
Camera Title	Off / On (Displayed 15 characters)	
Day & Night	Auto (ICR) / Color / B/W	
Backlight Compensation	BLC / HLC / Off	
Contrast Enhancement	SSDR (Off / On)	
Digital Noise Reduction	SSNRIII (Off / On)	
Digital Image Stabilization	Off / On	
Motion Detection	Off / On (8 programmable zones)	
Privacy Masking	Off / On (12 programmable zones)	
Sens-up (Frame Integration)	2x ~ 512x	
Gain Control	Off / Low / High	
White Balance	ATW / Outdoor / Indoor / Manual / AWC (1,700K° ~ 11,000K°)	
Electronic Shutter Speed	1/60 ~ 1/120,000sec	1/50 ~ 1/120,000sec
Digital Zoom	Off / On (1x ~ 16x)	
Flip	Vertical / Horizontal	
Communication	Coaxial control, RS-485	
Protocol	Coax : Pelco-C (Coaxitron) RS-485 : Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon	
IR Distance	30m (IR LED 10ea)	
ENVIRONMENTAL		
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) /Up to 100% RH	
Ingress Protection	IP66	
ELECTRICAL		
Input Voltage	Dual (24V AC & 12V DC ±10%)	
Power Consumption	Max. 5W	
MECHANICAL		
Color / Material	Ivory / Aluminum, Plastic	
Dome Cover	Polycarbonate / Smoked	
Dimensions (WxH)	Ø148.0 x 126.0mm (Ø5.83" x 4.96")	
Weight	1.3Kg (2.87 lb)	

SCV-2081R

High Resolution Vandal-Resistant IR Dome Camera



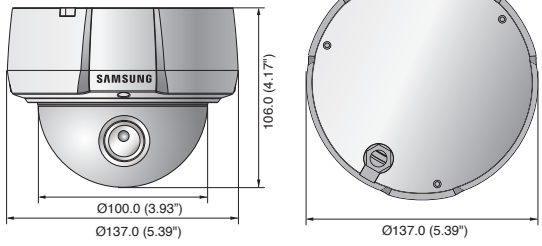


Key Features

- High resolution of 600TV lines, 700TV lines (B/W)
- Min. illumination 0Lux (IR LED on), IR distance 20m
- 3.6x V/F lens (2.8 ~ 10mm), True Day / Night (ICR), MD, SSNRIII
- IP66, Coax : Pelco-C (Coaxitron)
- Dual power, 24V AC & 12V DC

Dimensions

Unit : mm (inch)



Technical Specifications

	SCV-2081RN	SCV-2081RP
VIDEO		
Imaging Device	1/3" Super HAD CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace	
Synchronization	Internal / Line lock	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 600TV lines, B/W : 700TV lines	
Min. Illumination	Color : 0.15Lux@F1.2 (50IRE), 0.0003Lux (Sens-up, 512x) B/W : 0Lux (LED on)	
S / N Ratio	52dB (AGC off, Weight on)	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
LENS		
Focal Length (Zoom Ratio)	2.8 ~ 10mm (3.6x)	
Max. Aperture Ratio	1 : 1.2(Wide) ~ 2.8(Tele)	
Angular Field of View	H : 94.4°(Wide) ~ 28°(Tele) / V : 69.2°(Wide) ~ 21°(Tele)	
Lens Type	DC auto iris	
Mount Type	Board type	
PAN / TILT		
Pan Range	0° ~ 352°	
Tilt Range	0° ~ 73°	
Rotate Range	0° ~ 348°	
OPERATIONAL		
On Screen Display	English, Japanese, Spanish, French, Portuguese, Taiwanese, Korean	English, French, German, Spanish, Italian, Chinese, Russian, Polish, Czech, Romanian, Serbian, Swedish, Danish, Turkish, Portuguese
Camera Title	Off / On (Displayed 15 characters)	
Day & Night	Auto (ICR) / Color / B/W	
Backlight Compensation	BLC / HLC / Off	
Contrast Enhancement	SSDR (Off / On)	
Digital Noise Reduction	SSNRIII (Off / On)	
Digital Image Stabilization	Off / On	
Motion Detection	Off / On (8 programmable zones)	
Privacy Masking	Off / On (12 programmable zones)	
Sens-up (Frame Integration)	2x ~ 512x	
Gain Control	Off / Low / High	
White Balance	ATW / Outdoor / Indoor / Manual / AWC (1,700K° ~ 11,000K°)	
Electronic Shutter Speed	1/60 ~ 1/120,000sec	1/50 ~ 1/120,000sec
Digital Zoom	Off / On (1x ~ 16x)	
Flip	Vertical / Horizontal	
Communication	Coaxial control	
Protocol	Coax : Pelco-C (Coaxitron)	
IR Distance	20m (IR LED 20ea)	
ENVIRONMENTAL		
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / Up to 100% RH	
Ingress Protection	IP66	
ELECTRICAL		
Input Voltage	Dual (24V AC & 12V DC ±10%)	
Power Consumption	Max. 3W / Max. 4W (IR LED on)	
MECHANICAL		
Color / Material	Ivory / Aluminum	
Dome Cover	Polycarbonate / Smoked	
Dimensions (WxH)	Ø137.0 x 106.0mm (Ø5.39" x 4.17")	
Weight	700g (1.54 lb)	

SCP-3120/3120V/3120VH

1/4" 12x High Resolution WDR Mini PTZ Dome Camera



SCP-3120 SCP-3120V SCP-3120VH

600TVL | 0.7Lux | 12x A/F Lens | D&N ICR | 24VAC

Key Features

- High resolution of 600TV lines (Color), 700TV lines (B/W)
- Min. illumination 0.7Lux@F1.65 (Color), 0.07Lux (B/W)
- Powerful 12x zoom (3.6 ~ 44.3mm), Digital 16x
- WDR, VPS, True Day / Night (ICR), Intelligent video, MD, DNR (3D+2D)
- IP66 : SCP-3120V/3120VH, Coaxial control (CCVC), RS-485, 24V AC

Accessories (Optional)

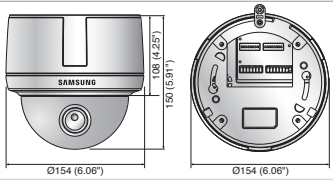


SBP-300WM1 SBP-300WM SBP-300CM SBP-300HM1 (Not for "VH" model) SBP-300LM SBP-300PM SBP-300KM

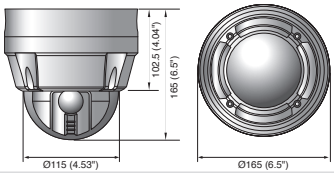
Dimensions

Unit : mm (inch)

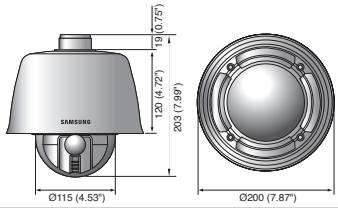
SCP-3120



SCP-3120V



SCP-3120VH



Technical Specifications

	SCP-3120N/3120VN/3120VHN	SCP-3120P/3120VP/3120VHP
VIDEO		
Imaging Device	1/4" Ex-view HAD CCD (Double scan)	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace	
Synchronization	Internal / Line lock	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 600TV lines, B/W : 700TV lines	
Min. Illumination	Color : 0.7Lux@F1.65 (50IRE), 0.001Lux (Sens-up, 512x) B/W : 0.07Lux@F1.65 (50IRE), 0.0001Lux (Sens-up, 512x)	
S / N Ratio	52dB (AGC off, Weight on)	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
LENS		
Focal Length (Zoom Ratio)	3.6 ~ 44.3mm (Optical 12x)	
Max. Aperture Ratio	1 : 1.65(Wide) ~ 2.01(Tele)	
Angular Field of View	H : 54.44°(Wide) ~ 4.64°(Tele) / V : 41.42°(Wide) ~ 3.52°(Tele)	
Min. Object Distance	1m (3.28ft)	
Focus Control	Auto / Manual / One shot	
Zoom Movement Speed	1.9sec	
PAN / TILT		
Pan Range	360° Endless	
Pan Speed	Preset : 650°/sec, Manual : 0.05°/sec ~ 120°/sec (Proportional zoom ratio)	
Tilt Range	-5° ~ 185°	
Tilt Speed	Preset : 650°/sec, Manual : 0.05°/sec ~ 120°/sec (Proportional zoom ratio)	
Preset	255	
Preset Accuracy	±0.1°	
OPERATIONAL		
On Screen Display	English, French, Spanish, Italian, German, Portuguese, Korean	English, French, Spanish, German, Italian, Chinese, Portuguese
Camera Title	Off / On (Displayed 12 characters)	
Day & Night	Off / Auto / B/W	
Backlight Compensation	BLC / WDR / Off	
Wide Dynamic Range	128x (52dB)	160x (52dB)
Contrast Enhancement	XDR (Off / Low / Mid / High)	
Digital Noise Reduction	Adaptive 3D+2D (Off / Low / Mid / High / User)	
Digital Image Stabilization	Off / On	
Motion Detection	Off / Tracking / Detection	
Privacy Masking	Off / On (12 programmable zones with polygonal masking)	
Sens-up (Frame Integration)	2x ~ 512x	
Gain Control	Off / Low / Medium / High / Manual	
White Balance	ATW (In) / ATW (Out) / AWC / Manual	
Electronic Shutter Speed	1/60 ~ 1/10,000sec	1/50 ~ 1/10,000sec
Digital Zoom	Off / On (1x ~ 16x)	
Digital Flip	Off / On	
VPS	Off / On	
Intelligent Video	Fixed / Moved	
Schedule	Day / Time	
Alarm	2 In 2 Out	
Communication	Coaxial control, RS-485	
Protocol	Coax : CCVC RS-485 : Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon, AD, GE	
ENVIRONMENTAL		
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / Less than 90% RH : SCP-3120 -50°C ~ +50°C (-58°F ~ +122°F) / Up to 100% RH : SCP-3120V/3120VH	
Ingress Protection	IP66 : SCP-3120V/3120VH	
ELECTRICAL		
Input Voltage	24V AC ±10%	
Power Consumption	Max. 12W : SCP-3120, Max. 12W / 45W (Fan & heater on) : SCP-3120V/3120VH	
MECHANICAL		
Color / Material	Ivory / Plastic (Dome cover : Clear) : SCP-3120 Ivory / Aluminum, Plastic (Dome cover : Clear) : SCP-3120V/3120VH	
Dimensions (WxH)	Ø154.0 x 150.0mm (Ø6.06" x 5.91") : SCP-3120, Ø165.0 x 165.0mm (Ø6.5" x 6.5") : SCP-3120V Ø200.0 x 203.0mm (Ø7.87" x 7.99") : SCP-3120VH	
Weight	1Kg (2.2 lb) : SCP-3120, 1.8Kg (3.97 lb) : SCP-3120V, 2.4Kg (5.29 lb) : SCP-3120VH	

SCP-2120

1/4" 12x High Resolution Mini PTZ Dome Camera



600TVL | 0.2Lux | 12x A/F Lens | D&N ICR | 24VAC

Key Features

- High resolution of 600TV lines (Color), 700TV lines (B/W)
- Min. illumination 0.2Lux@F1.67 (Color), 0.02Lux (B/W)
- Powerful 12x zoom (3.94 ~ 46.05mm), Digital 16x
- True Day / Night (ICR), MD, SSNRIII (3D+2D)
- Coaxial control (Pelco-C), RS-485, 24V AC

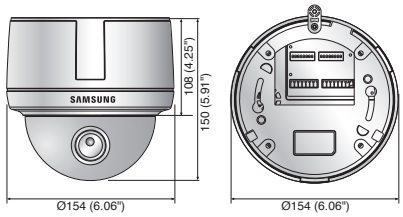
Accessories (Optional)



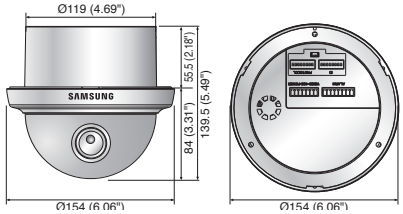
SBP-300WM1 | SBP-300WM | SBP-300CM | SBP-300HM1 (Not for "VH" model) | SBP-300PM | SBP-300KM

Dimensions

Unit : mm (inch)



Flush Type



Technical Specifications

	SCP-2120N	
VIDEO		
Imaging Device	1/4" Super HAD CCD II	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace	
Synchronization	Internal / Line lock	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 600TV lines, B/W : 700TV lines	
Min. Illumination	Color : 0.2Lux@F1.67 (50IRE), 0.0004Lux (Sens-up, 512x) B/W : 0.004Lux@F1.67 (50IRE), 0.000008Lux (Sens-up, 512x)	
S / N Ratio	52dB (AGC off, Weight on)	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
LENS		
Focal Length (Zoom Ratio)	3.94 ~ 46.05mm (Optical 12x)	
Max. Aperture Ratio	1 : 1.67(Wide) ~ 1.88 (Tele)	
Angular Field of View	H : 51.54°(Wide) ~ 4.49°(Tele) / V : 39.28°(Wide) ~ 3.39°(Tele)	
Min. Object Distance	1m (3.28ft)	
Focus Control	Auto / Manual / One shot	
Zoom Movement Speed	1.9sec (Wide to tele)	
PAN / TILT		
Pan Range	360° Endless	
Pan Speed	Preset : 650°/sec, Manual : 0.05°/sec ~ 120°/sec (Proportional zoom ratio)	
Tilt Range	-5° ~ 185°	
Tilt Speed	Preset : 650°/sec, Manual : 0.05°/sec ~ 120°/sec (Proportional zoom ratio)	
Preset	255	
Preset Accuracy	±0.1°	
OPERATIONAL		
On Screen Display	English, French, German, Spanish, Italian, Portuguese, Korean	English, French, German, Spanish, Italian, Chinese, Portuguese
Camera Title	Off / On (Displayed 12 characters)	
Day & Night	Off / Auto / B/W	
Backlight Compensation	BLC / HLC / Off	
Contrast Enhancement	SSDR (Off / On)	
Digital Noise Reduction	SSNRIII (Off / Low / Medium / High)	
Motion Detection	Off / On	
Privacy Masking	Off / On (8 programmable zones)	
Sens-up (Frame Integration)	2x ~ 512x	
Gain Control	Off / Low / Medium / High / Manual	
White Balance	ATW / ATW(IN) / ATW(OUT) / Manual / AWC	
Electronic Shutter Speed	1/60 ~ 1/120,000sec	1/50 ~ 1/120,000sec
Digital Zoom	Off / On (2x ~ 16x)	
Digital Flip	Off / On	
Schedule	Day / Time	
Alarm	2 In 2 Out	
Communication	Coaxial control (SPC-300 compatible), RS-485	
Protocol	Coax : Pelco-C (Coaxitron) RS-485 : Samsung-T/E, Pelco-D/P, Vicon, Panasonic, Bosch, Honeywell, AD, GE	
ENVIRONMENTAL		
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / Less than 90% RH	
ELECTRICAL		
Input Voltage / Current	24V AC ±10%	
Power Consumption	Max. 12W	
MECHANICAL		
Color / Material	Ivory / Plastic (Dome cover : Clear)	
Dimensions (WxH)	Ø154.0 x 150.0mm (Ø6.06" x 5.91")	
Weight	1Kg (2.2 lb)	

SCP-3430/2430

1/4" 43x High Resolution PTZ Dome Camera





Key Features

- High resolution of 600TV lines (Color), 700TV lines (B/W)
- Min. illumination 0.7Lux@F1.65 (Color), 0.07Lux (B/W) : SCP-3430
  Min. illumination 0.2Lux@F1.65 (Color), 0.02Lux (B/W) : SCP-2430
- Powerful 43x zoom (3.2 ~ 138.5mm), Digital 16x
- WDR, VPS : SCP-3430, True Day / Night (ICR)
  Intelligent video, MD, DNR (3D+2D)
- Coaxial control (CCVC), RS-485, 24V AC

Accessories (Optional)



SCX-300WM SCX-300CM SCX-300LM



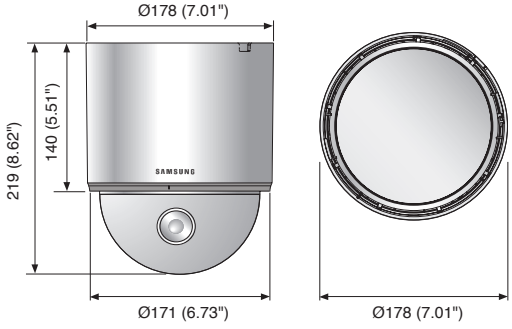
SCX-300HM SCX-300PM SCX-300KM



SHP-3700F

Dimensions

Unit : mm (inch)



Technical Specifications

	SCP-3430N/2430N	SCP-3430P/2430P
VIDEO		
Imaging Device	1/4" Ex-view double scan CCD : SCP-3430(SCC-C6455), 1/4" Ex-view HAD CCD : SCP-2430	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace	
Synchronization	Internal / Line lock	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 600TV lines, B/W : 700TV lines	
Min. Illumination	Color : 0.7Lux@F1.65 (50IRE), 0.001Lux (Sens-up, 512x) : SCP-3430 0.2Lux@F1.65 (50IRE), 0.0004Lux (Sens-up, 512x) : SCP-2430 B/W : 0.07Lux@F1.65 (50IRE), 0.0002Lux (Sens-up, 512x) : SCP-3430 0.02Lux@F1.65 (50IRE), 0.00004Lux (Sens-up, 512x) : SCP-2430	
S / N Ratio	52dB (AGC off, Weight on)	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
LENS		
Focal Length (Zoom Ratio)	3.2 ~ 138.5mm (Optical 43x)	
Max. Aperture Ratio	1 : 1.65(Wide) ~ 3.7(Tele)	
Angular Field of View	H : 61.22°(Wide) ~ 1.47°(Tele) / V : 47.16°(Wide) ~ 1.1°(Tele)	
Min. Object Distance	1m	
Focus Control	Auto / Manual / One AF	
Zoom Movement Speed	3.2sec (Wide to tele)	
PAN / TILT		
Pan Range	360° Endless	
Pan Speed	Preset : 600°/sec, Manual : 0.01°/sec ~ 180°/sec (Proportional zoom ratio)	
Tilt Range	-6° ~ 186°	
Tilt Speed	Preset : 600°/sec, Manual : 0.01°/sec ~ 180°/sec (Proportional zoom ratio)	
Preset	512	
Preset Accuracy	±0.1°	
OPERATIONAL		
On Screen Display	Multi-language support English, Japanese, Spanish, French, Portuguese, Taiwanese, Korean	Multi-language support English, French, German, Spanish, Italian, Chinese, Russian, Polish, Czech, Romanian, Serbian, Swedish, Danish, Turkish, Portuguese
Camera Title	Off / On (Displayed 54 characters)	
Day & Night	Day / Night / Auto / Ext	
Backlight Compensation	Off / WDR / BLC : SCP-3430, Off / On (Area setting) : SCP-2430	
Wide Dynamic Range	128x (52dB): SCP-3430	160x (52dB) : SCP-3430
Contrast Enhancement	XDR (Off / Low / Mid / High)	
Digital Noise Reduction	Adaptive 3D+2D (Off / Low / Mid / High / Use)	
Digital Image Stabilization	Off / On	
Motion Detection	Off / Tracking / Detection	
Privacy Masking	Off / On (12 programmable zones with polygonal masking)	
Sens-up (Frame Integration)	2x ~ 512x	
Gain Control	Off / On	
White Balance	ATW1 / ATW2 / AWC (Manual) / 3200K / 5600K	
Electronic Shutter Speed	1/60 ~ 1/10,000sec	1/50 ~ 1/10,000sec
Digital Zoom	Off / On (1x ~ 16x)	
Digital Flip	Off / On	
Profile	Standard / ITS / Backlight / Day & Night / Gaming / Custom	
VPS	Off / On	
Intelligent Video	Fixed / Moved	
PIP	Off / On	
Schedule	Day / Time	
Alarm	8 In 3 Out	
Communication	Coaxial control, RS-485	
Protocol	Coax : (CCVC) RS-485 : Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon, GE	
ENVIRONMENTAL		
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / Less than 90% RH	
ELECTRICAL		
Input Voltage	24V AC ±10%	
Power Consumption	Max. 11W	
MECHANICAL		
Color / Material	Light gray / Plastic (Dome cover : Clear)	
Dimensions (WxH)	Ø178 x 219mm (7.01" x 8.62")	
Weight	2Kg (4.41 lb)	

SCP-3430H/2430H

1/4" 43x High Resolution Weatherproof PTZ Dome Camera





Key Features

- High resolution of 600TV lines (Color), 700TV lines (B/W)
- Min. illumination 0.7Lux@F1.65 (Color), 0.07Lux (B/W) : SCP-3430H
  Min. illumination 0.2Lux@F1.65 (Color), 0.02Lux (B/W) : SCP-2430H
- Powerful 43x zoom (3.2 ~ 138.5mm), Digital 16x
- WDR, VPS : SCP-3430H, True Day / Night (ICR)
  Intelligent video, MD, DNR (3D+2D)
- IP66, Coaxial control (CCVC), RS-485, 24V AC

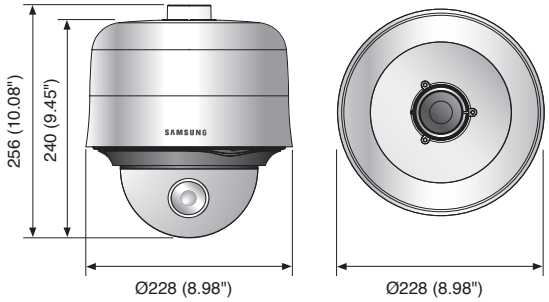
Accessories (Optional)



SCX-300WM SCX-300CM SCX-300LM SCX-300PM SCX-300KM

Dimensions

Unit : mm (inch)



Technical Specifications

	SCP-3430HN/2430HN	SCP-3430HP/2430HP
VIDEO		
Imaging Device	1/4" Ex-view HAD CCD (Double scan) : SCP-3430H, 1/4" Super HAD CCD II : SCP-2430H	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace	
Synchronization	Internal / Line lock	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 600TV lines, B/W : 700TV lines	
Min. Illumination	Color : 0.7Lux@F1.65 (50IRE), 0.001Lux (Sens-up, 512x) : SCP-3430H 0.2Lux@F1.65 (50IRE), 0.0004Lux (Sens-up, 512x) : SCP-2430H B/W : 0.07Lux@F1.65 (50IRE), 0.0002Lux (Sens-up, 512x) : SCP-3430H 0.02Lux@F1.65 (50IRE), 0.00004Lux (Sens-up, 512x) : SCP-2430H	
S / N Ratio	52dB (AGC off, Weight on)	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
LENS		
Focal Length (Zoom Ratio)	3.2 ~ 138.5mm (Optical 43x)	
Max. Aperture Ratio	1 : 1.65(Wide) ~ 3.7(Tele)	
Angular Field of View	H : 61.22°(Wide) ~ 1.47°(Tele) / V : 47.16°(Wide) ~ 1.1°(Tele)	
Min. Object Distance	1m (3.28ft)	
Focus Control	Auto / Manual / One AF	
Zoom Movement Speed	3.2sec (Wide to tele)	
PAN / TILT		
Pan Range	360° Endless	
Pan Speed	Preset : 600°/sec, Manual : 0.01°/sec ~ 180°/sec (Proportional zoom ratio)	
Tilt Range	-6° ~ 186°	
Tilt Speed	Preset : 600°/sec, Manual : 0.01°/sec ~ 180°/sec (Proportional zoom ratio)	
Preset	512	
Preset Accuracy	±0.1°	
OPERATIONAL		
On Screen Display	English, Japanese, Spanish, French, Portuguese, Taiwanese, Korean	English, French, German, Spanish, Italian, Chinese, Russian, Polish, Czech, Romanian, Serbian, Swedish, Danish, Turkish, Portuguese
Camera Title	Off / On (Displayed 54 characters)	
Day & Night	Day / Night / Auto / Ext	
Backlight Compensation	Off / On (Area setting)	
Wide Dynamic Range	128x (52dB) : SCP-3430H	160x (52dB): SCP-3430H
Contrast Enhancement	XDR (Off / Low / Mid / High)	
Digital Noise Reduction	Adaptive 3D+2D (Off / Low / Mid / High / User)	
Digital Image Stabilization	Off / On	
Motion Detection	Off / Tracking / Detection	
Privacy Masking	Off / On (12 programmable zones with polygonal masking)	
Sens-up (Frame Integration)	2x ~ 512x	
Gain Control	Off / On	
White Balance	ATW1 / ATW2 / AWC (Manual) / 3200K / 5600K	
Electronic Shutter Speed	1/60 ~ 1/10,000sec	1/50 ~ 1/10,000sec
Digital Zoom	Off / On (1x ~ 16x)	
Digital Flip	Off / On	
Profile	Standard / ITS / Backlight / Day & Night / Gaming / Custom	
VPS	Off / On	
Intelligent Video	Fixed / Moved	
PIP	Off / On	
Schedule	Day / Time	
Alarm	8 In 3 Out	
Communication	Coaxial control (SPC-300 compatible), RS-485	
Protocol	Coax : CCVC RS-485 : Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon, GE	
ENVIRONMENTAL		
Operating Temperature / Humidity	-50°C ~ +50°C (-58°F ~ +122°F) / Up to 100% RH	
Ingress Protection	IP66	
ELECTRICAL		
Input Voltage / Current	24V AC ±10%	
Power Consumption	Max. 11W / 47W (Fan & heater on)	
MECHANICAL		
Color / Material	Light gray / Aluminum, Plastic (Dome cover : Clear)	
Dimensions (WxH)	Ø228.0 x 256.0mm (Ø8.98" x 10.08")	
Weight	3Kg (6.61 lb)	

SCP-3370TH/3370

High Resolution 37x WDR PTZ Dome Camera





Key Features

- High resolution of 600TV lines (Color), 700TV lines (B/W)
- Min. illumination 0.7Lux@F1.6 (Color), 0.07Lux (B/W)
- Powerful 37x zoom (3.5 ~ 129.5mm), digital 16x
- Advanced Auto / Tracking (SCP-3370TH)
- WDR, VPS, True Day / Night (ICR), intelligent video, MD, SSNRIII
- Coax : Pelco-C (Coaxitron), RS-485, 24V AC

Accessories (Optional)



SBP-300WM1 SBP-300WM SBP-300CM SBP-300LM



SBP-300HM1 SBP-300PM SBP-300KM

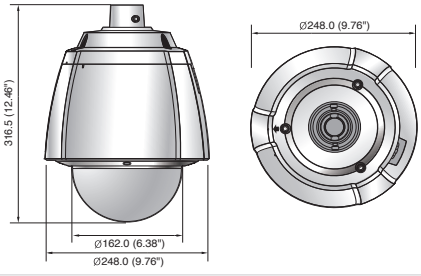


SHP-3700F
not needed for
"H" models

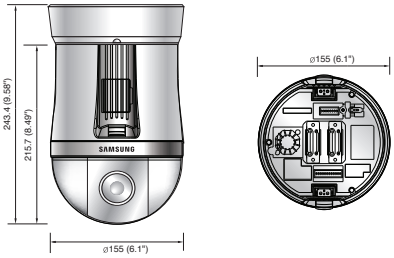
Dimensions

Unit : mm (inch)

SCP-3370TH/3370H



SCP-3370



Technical Specifications

	SCP-3370THN/3370N	SCP-3370THP/3370P
VIDEO		
Imaging Device	1/4" Ex-view HAD CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace	
Synchronization	Internal / Line lock	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 600TV lines	
Min. Illumination	Color : 0.7Lux@F1.6 (50IRE), 0.001Lux (Sens-up, 512x) B/W : 0.07Lux@F1.6 (50IRE), 0.0001Lux (Sens-up, 512x)	
S / N Ratio	52dB (AGC off, Weight on)	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
LENS		
Focal Length (Zoom Ratio)	3.5 ~ 129.5mm (Optical 37x)	
Max. Aperture Ratio	1 : 1.6(Wide) ~ 3.9(Tele)	
Angular Field of View	H : 55.5°(Wide) ~ 1.59°(Tele) / V : 42.5°(Wide) ~ 1.19°(Tele)	
Min. Object Distance	1.8m (5.91ft)	
Focus Control	Auto / Manual / One shot	
Zoom Movement Speed	2.8sec	
PAN / TILT		
Pan Speed / Range	Preset : 600°/s, Manual : 0.024°/ s~ 120°/s; 360° Endless	
Tilt Speed / Range	Preset : 600°/s, Manual : 0.024°/s ~ 120°/s; -5° ~ 185°	
No. Presets / Accuracy	255 / ±0.1°	
Auto Tracking	Yes (SCP-3370TH only)	
OPERATIONAL		
On Screen Display	English, Japanese, Spanish, French, Portuguese, Taiwanese, Korean	English, French, German, Spanish, Italian, Chinese, Russian, Polish, Czech,Turkish, Portuguese
Camera Title	Off / On (Displayed 12 characters)	
Day & Night	Auto (ICR) / External / Color / B/W	
Backlight Compensation	BLC / HLC / Off / WDR	
Wide Dynamic Range	128x (52dB)	160x (52dB)
Contrast Enhancement	SSDR (Off / On)	
Digital Noise Reduction	SSNRIII (Off / On)	
Digital Image Stabilization	Off / On	
Motion Detection	Built-in	
Privacy Masking	Off / On (8 programmable zones)	
Sens-up (Frame Integration)	2x ~ 512x	
Gain Control	Off / Low / Medium / High / Manual	
White Balance	ATW / Outdoor / Indoor / Manual / AWC (1,700K° ~ 11,000K°)	
Electronic Shutter Speed	1/60 ~ 1/120,000sec	1/50 ~ 1/120,000sec
Digital Zoom	Off / On (1x ~ 16x)	
Digital Flip	Off / On	
VPS	Off / On	
Intelligent Video	Off / Detection / Tracking / Fixed_Moved	
PIP	Off / On	
Schedule	Day / Time	
Alarm	8 In 3 Out	
Communication	Coaxial control, RS-485	
Protocol	Coax : Pelco-C (Coaxitron) RS-485 : Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon, AD, GE	
ENVIRONMENTAL		
Operating Temperature / Humidity	-50°C ~ +50°C (-58°F ~ +122°F) / up to 100% RH : SCP-3370TH -10°C ~ +50°C (+14°F ~ +122°F) / 20% ~ 80% RH : SCP-3370	
Ingress Protection	IP66 : SCP-3370TH	
ELECTRICAL		
Input Voltage	24V AC ±10%	
Power Consumption	Max. 15W / 60W (Fan & heater on) : SCP-3370TH, Max. 15W : SCP-3370	
MECHANICAL		
Color / Material	Ivory / Aluminum, Plastic (Dome cover : Clear)	
Dimensions (WxH)	Ø248.0 x 316.5mm (Ø9.76" x 12.46") : SCP-3370TH Ø155.0 x 243.4mm (Ø6.1" x 9.58") : SCP-3370	
Weight	4.5Kg (9.92 lb) : SCP-3370TH, 2Kg (4.41 lb) : SCP-3370	

Controllers (optional)



SPC-6000 SPC-1010

SCP-2370TH/2370

1/4" 37x PTZ Dome Camera





Key Features

- High resolution of 600TV lines (Color), 700TV lines (B/W)
- Min. illumination 0.2Lux@F1.6 (Color), 0.02Lux (B/W)
- True Day / Night (ICR) in Powerful 37x zoom (3.5 ~ 129.5mm) Lens
- Advanced Auto-tracking (SCP-2370TH)
- Outdoor models IP66, -58F to 122F
- Coax control (Pelco-C)

Accessories (Optional)



SBP-300WM1 SBP-300WM SBP-300CM SBP-300LM



SHP-3700F
not needed for
"H" models



SBP-300HM1



SBP-300PM

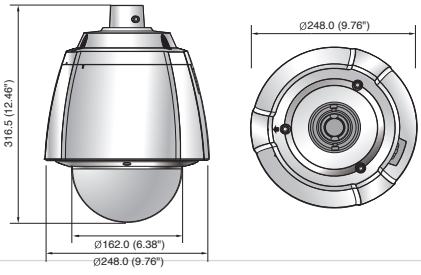


SBP-300KM

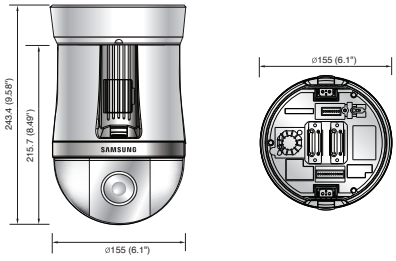
Dimensions

Unit : mm (inch)

SCP-2270TH



SCP-2270



Technical Specifications

	SCP-2370THN/2370N	SCP-2370THP/2370P
VIDEO		
Imaging Device	1/4" Ex-view HAD CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace	
Synchronization	Internal / Line lock	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 600TV lines	
Min. Illumination	Color : 0.7Lux@F1.6 (50IRE), 0.001Lux (Sens-up, 512x) B/W : 0.07Lux@F1.6 (50IRE), 0.0001Lux (Sens-up, 512x)	
S / N Ratio	52dB (AGC off, Weight on)	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
LENS		
Focal Length (Zoom Ratio)	3.5 ~ 129.5mm (Optical 37x)	
Max. Aperture Ratio	1 : 1.6(Wide) ~ 3.9(Tele)	
Angular Field of View	H : 55.5°(Wide) ~ 1.59°(Tele) / V : 42.5°(Wide) ~ 1.19°(Tele)	
Min. Object Distance	1.8m (5.91ft)	
Focus Control	Auto / Manual / One shot	
Zoom Movement Speed	2.8sec	
PAN / TILT		
Pan Speed / Range	Preset : 600°/s, Manual : 0.024°/ s~ 120°/s; 360° Endless	
Tilt Speed / Range	Preset : 600°/s, Manual : 0.024°/s ~ 120°/s; -5° ~ 185°	
No. Presets / Accuracy	255 / ±0.1°	
Auto Tracking	Yes (SCP-2370TH only)	
OPERATIONAL		
On Screen Display	English, Japanese, Spanish, French, Portuguese, Taiwanese, Korean	English, French, German, Spanish, Italian, Chinese, Russian, Polish, Czech,Turkish, Portuguese
Camera Title	Off / On (Displayed 12 characters)	
Day & Night	Auto (ICR) / External / Color / B/W	
Backlight Compensation	BLC / HLC / Off / WDR	
Contrast Enhancement	SSDR (Off / On)	
Digital Noise Reduction	SSNRIII (Off / On)	
Digital Image Stabilization	Off / On	
Motion Detection	Built-in	
Privacy Masking	Off / On (8 programmable zones)	
Sens-up (Frame Integration)	2x ~ 512x	
Gain Control	Off / Low / Medium / High / Manual	
White Balance	ATW / Outdoor / Indoor / Manual / AWC (1,700K° ~ 11,000K°)	
Electronic Shutter Speed	1/60 ~ 1/120,000sec	1/50 ~ 1/120,000sec
Digital Zoom	Off / On (1x ~ 16x)	
Digital Flip	Off / On	
VPS	Off / On	
Intelligent Video	Off / Detection / Tracking / Fixed_Moved	
PIP	Off / On	
Schedule	Day / Time	
Alarm	8 In 3 Out	
Communication	Coaxial control, RS-485	
Protocol	Coax : Pelco-C (Coaxitron) RS-485 : Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon, AD, GE	
ENVIRONMENTAL		
Operating Temperature / Humidity	-50°C ~ +50°C (-58°F ~ +122°F) / up to 100% RH : SCP-2370TH -10°C ~ +50°C (+14°F ~ +122°F) / 20% ~ 80% RH : SCP-2370	
Ingress Protection	IP66 : SCP-2370TH	
ELECTRICAL		
Input Voltage	24V AC ±10%	
Power Consumption	Max. 15W / 60W (Fan & heater on) : SCP-2370TH, Max. 15W : SCP-2370	
MECHANICAL		
Color / Material	Ivory / Aluminum, Plastic (Dome cover : Clear)	
Dimensions (WxH)	Ø248.0 x 316.5mm (Ø9.76" x 12.46") : SCP-2370TH Ø155.0 x 243.4mm (Ø6.1" x 9.58") : SCP-2370	
Weight	4.5Kg (9.92 lb) : SCP-2370TH, 2Kg (4.41 lb) : SCP-2370	

Controllers (optional)



SPC-6000



SPC-1010

SCP-2270H/2270

1/4" 27x PTZ Dome Camera



600TVL | 0.2Lux | 27x A/F Lens | D&N ICR | 24VAC

Key Features

- High resolution of 600TV lines (Color), 700TV lines (B/W)
- Min. illumination 0.7Lux@F1.6 (Color), 0.07Lux (B/W)
- Powerful 37x zoom (3.5 ~ 129.5mm), digital 16x
- WDR, VPS, True Day / Night (ICR), intelligent video, MD, SSNRIII
- Coax : Pelco-C (Coaxitron), RS-485, 24V AC

Accessories (Optional)



SBP-300WM1 SBP-300WM SBP-300CM SBP-300LM



SBP-300HM1 SBP-300PM SBP-300KM

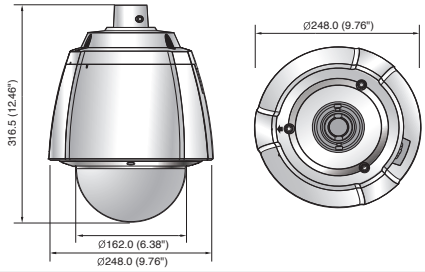


SHP-3700F not needed for "H" models

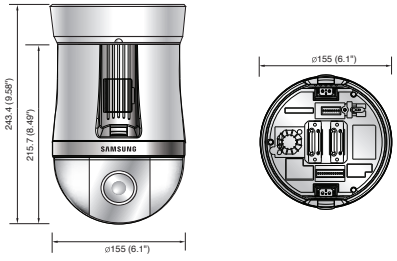
Dimensions

Unit : mm (inch)

SCP-2270H



SCP-2270



Technical Specifications

	SCP-2270THN/2370N	SCP-2270THP/2270P
VIDEO		
Imaging Device	1/4" Ex-view HAD CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace	
Synchronization	Internal / Line lock	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 600TV lines	
Min. Illumination	Color : 0.7Lux@F1.6 (50IRE), 0.001Lux (Sens-up, 512x) B/W : 0.07Lux@F1.6 (50IRE), 0.0001Lux (Sens-up, 512x)	
S / N Ratio	52dB (AGC off, Weight on)	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
LENS		
Focal Length (Zoom Ratio)	3.5 ~ 94.5mm (Optical 27x)	
Max. Aperture Ratio	1 : 1.6(Wide) ~ 3.9(Tele)	
Angular Field of View	H : 55.5°(Wide) ~ 2.24°(Tele) / V : 42.5°(Wide) ~ 1.62°(Tele) (27x)	
Min. Object Distance	1.8m (5.91ft)	
Focus Control	Auto / Manual / One AF	
Zoom Movement Speed	1.8sec (27x)	
PAN / TILT		
Pan Speed / Range	Preset : 600°/s, Manual : 0.024°/ s~ 120°/s; 360° Endless	
Tilt Speed / Range	Preset : 600°/s, Manual : 0.024°/s ~ 120°/s; -5° ~ 185°	
No. Presets / Accuracy	255 / ±0.1°	
OPERATIONAL		
On Screen Display	English, Japanese, Spanish, French, Portuguese, Taiwanese, Korean	English, French, German, Spanish, Italian, Chinese, Russian, Polish, Czech,Turkish, Portuguese
Camera Title	Off / On (Displayed 12 characters)	
Day & Night	Auto (ICR) / External / Color / B/W	
Backlight Compensation	BLC / HLC / Off / WDR	
Contrast Enhancement	SSDR (Off / On)	
Digital Noise Reduction	SSNRIII (Off / On)	
Digital Image Stabilization	Off / On	
Motion Detection	Built-in	
Privacy Masking	Off / On (8 programmable zones)	
Sens-up (Frame Integration)	2x ~ 512x	
Gain Control	Off / Low / Medium / High / Manual	
White Balance	ATW / Outdoor / Indoor / Manual / AWC (1,700K° ~ 11,000K°)	
Electronic Shutter Speed	1/60 ~ 1/120,000sec	1/50 ~ 1/120,000sec
Digital Zoom	Off / On (2x ~ 16x)	
Digital Flip	Off / On	
VPS	Off / On	
Intelligent Video	Off / Detection / Tracking / Fixed_Moved	
PIP	Off / On	
Schedule	Day / Time	
Alarm	8 In 3 Out	
Communication	Coaxial control, RS-485	
Protocol	Coax : Pelco-C (Coaxitron) RS-485 : Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon, AD, GE	
ENVIRONMENTAL		
Operating Temperature / Humidity	-50°C ~ +50°C (-58°F ~ +122°F) / up to 100% RH : SCP-2270H -10°C ~ +50°C (+14°F ~ +122°F) / 20% ~ 80% RH : SCP-2270	
Ingress Protection	IP66 : SCP-2270H	
ELECTRICAL		
Input Voltage	24V AC ±10%	
Power Consumption	Max. 15W / 60W (Fan & heater on) : SCP-2270H, Max. 15W : SCP-2270	
MECHANICAL		
Color / Material	Ivory / Aluminum, Plastic (Dome cover : Clear)	
Dimensions (WxH)	Ø248.0 x 316.5mm (Ø9.76" x 12.46") : SCP-2270H Ø155.0 x 243.4mm (Ø6.1" x 9.58") : SCP-2370	
Weight	4.5Kg (9.92 lb) : SCP-2270H, 2Kg (4.41 lb) : SCP-2270	

Controllers (optional)



SPC-6000



SPC-1010

SCB-9051/9050

Weatherproof Thermal Camera



SCB-9051

SCB-9050



Key Features

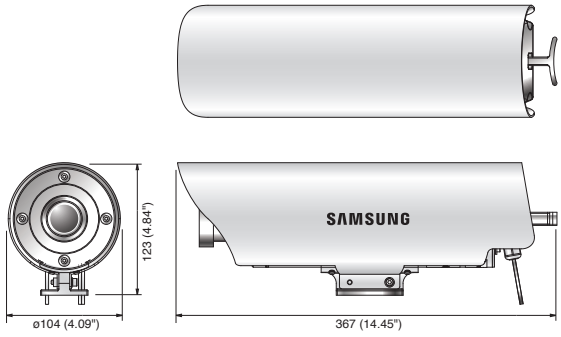
- Outstanding 1km detection without lighting : SCB-9051
  Outstanding 360m detection without lighting : SCB-9050
- Min. discernable temperature of 0.08°C
- Built-in 50mm, 0.47mrad. Color pattern : SCB-9051
  Built-in 14mm, 1.68mrad. Color pattern : SCB-9050
- OSD, RS-485, IP66, 24V AC

Technical Specifications

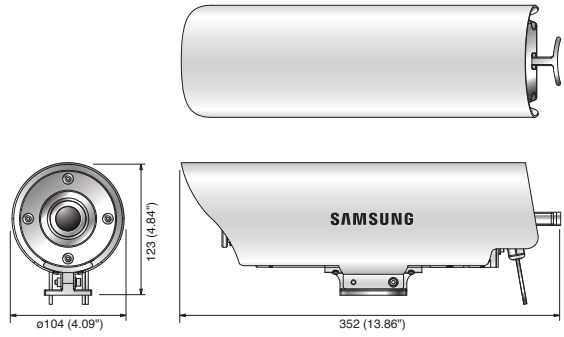
	SCB-9051N/9050N	SCB-9051P/9050P
VIDEO		
Imaging Device	320(H) x 240(H) uncooled VOX microbolometer	
Sensor Pitch	23.5μm	
Measured Wavelength Range	8 ~ 14um, LWIR	
Video Ratio (Sensor)	30fps	25fps
Thermal Sensitivity (NETD)	85mK@F1.4	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
LENS		
Focal Length (Zoom Ratio)	50mm (Fixed) : SCB-9051, 14mm (Fixed) : SCB-9050	
Max. Aperture Ratio	1 : 1.4	
Angular Field of View (HxV)	8.6° x 6.5° : SCB-9051, 30.1° x 22.8° : SCB-9050	
Min. Object Distance	27m ~ ∞, Pan focus : SCB-9051, 0.5m ~ ∞, Pan focus : SCB-9050	
IFOV (Instaneous Field of View)	0.47mrad : SCB-9051, 1.68mrad : SCB-9050	
Focus Control	Manual	
OPERATIONAL		
On Screen Display	English, Japanese, Korean	
Image Mode	Color 1 / Color 2 / ISO / B/W	
Sharpness	6 levels : Off ~ 5	
Contrast Enhancement	11 levels (Auto), 10 levels (Manual)	
Digital Noise Reduction	3D-DNR (4 Step : Low / Medium / High / Off)	
Digital Zoom	Off / On (2x ~ 4x)	
Communication	RS-485	
Protocol	Samsung-T/E, Pelco-D	
ENVIRONMENTAL		
Operating Temperature / Humidity	-30°C ~ +55°C (-22°F ~ +131°F) / Less than 90% RH	
Ingress Protection	IP66	
ELECTRICAL		
Input Voltage / Current	24V AC ±10%	
Power Consumption	Max. 10.5W / 22W (With heater)	
MECHANICAL		
Color / Material	Ivory / Aluminum	
Dimensions (WxHxD)	Ø104.0 x 123.0 x 367.0mm (Ø4.09" x 4.84" x 14.45") : SCB-9051 Ø104.0 x 123.0 x 352.0mm (Ø4.09" x 4.84" x 13.86") : SCB-9050	
Weight	Approx. 2.2Kg (4.85 lb)	

Dimensions

Unit : mm (inch)



SCB-9051



SCB-9050

SCU-2370

FC CE

1/4" 37x High Resolution Weatherproof Positioning System





Key Features

- High resolution of 600TV lines (Color), 700TV lines (B/W)
- Min. illumination 0.2Lux@F1.6 (Color), 0.02Lux (B/W)
- Powerful 37x zoom (3.5 ~ 129.5mm), Digital 16x
- True Day / Night (ICR), MD, SSNRIII (3D+2D)
- IP66, Coaxial control (Pelco-C), RS-485, 24V AC

Accessories (Optional)



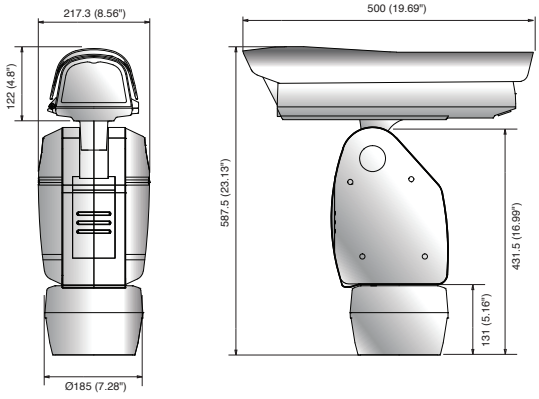
SBU-500WM



SBU-220PM

Dimensions

Unit : mm (inch)



Technical Specifications

	SCU-2370N	SCU-2370P
VIDEO		
Imaging Device	1/4" Super HAD CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace	
Synchronization	Internal / Line lock	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 600TV lines, B/W : 700TV lines	
Min. Illumination	Color : 0.2Lux@F1.6 (50IRE), 0.0004Lux (Sens-up, 512x) B/W : 0.02Lux@F1.6 (50IRE), 0.00004Lux (Sens-up, 512x)	
S / N Ratio	52dB (AGC off, Weight on)	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
LENS		
Focal Length (Zoom Ratio)	3.5 ~ 129.5mm (Optical 37x)	
Max. Aperture Ratio	1 : 1.6(Wide) ~ 3.9(Tele)	
Angular Field of View	H : 55.5°(Wide) ~ 1.59°(Tele) / V : 42.5°(Wide) ~ 1.19°(Tele)	
Min. Object Distance	1.5m	
Focus Control	Auto / Manual / One shot	
Zoom Movement Speed	2.8sec	
Lens Type	DC auto iris	
PAN / TILT		
Pan Range	360° Endless	
Pan Speed	Preset : 0.1° ~ 120°/sec, Manual : 0.1°/sec ~ 36°/sec (Turbo : 120°/sec)	
Tilt Range	-85° ~ 40°	
Tilt Speed	Preset : 0.1° ~ 36°/sec, Manual : 0.1°/sec ~ 36°/sec	
Preset	255	
Preset Accuracy	±0.1°	
OPERATIONAL		
On Screen Display	English, Chinese, French, German, Spanish, Italian, Portuguese	
Camera Title	Off / On (Displayed 12 characters)	
Day & Night	Color / B/W / Auto	
Backlight Compensation	Off / HLC / BLC	
Contrast Enhancement	SSDR (Off / On)	
Digital Noise Reduction	SSNRIII (Off / On)	
Digital Image Stabilization	Off / On	
Motion Detection	Off / On	
Privacy Masking	Off / On (8 area)	
Sens-up (Frame Integration)	2x ~ 512x	
Gain Control	Off / Low / Medium / High / Manual	
White Balance	ATW / Indoor / Outdoor / Manual / AWC	
Electronic Shutter Speed	Auto (1/60 ~ 1/120,000sec) / Manual / A.FLK	Auto (1/50 ~ 1/120,000sec) / Manual / A.FLK
Digital Zoom	Off / On (1x ~ 16x)	
Schedule	Day / Time	
Alarm	3 In 2 Out 1 Aux (Option : Wiper pump)	
IR Illuminator (Optional)	On / On (1 ~ 60sec, 1 ~ 60min) / Off	
Communication	Coaxial control, RS-485	
Protocol	Coax : Pelco-C (Coaxitron) RS-485 : Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon, GE, AD	
ENVIRONMENTAL		
Operating Temperature / Humidity	-50°C ~ +50°C (-58°F ~ +122°F) / Up to 100% RH	
Ingress Protection	IP66	
ELECTRICAL		
Input Voltage	24V AC ±10%	
Power Consumption	Max. 40W / 144W (Fan & heater on)	
MECHANICAL		
Color / Material	Ivory / Aluminum	
Dimensions (WxHxD)	217.3 x 587.5 x 500.0mm (8.56" x 23.13" x 19.69")	
Weight	17.5Kg (38.58 lb)	

SCU-9051

FC CE

Weatherproof Thermal Positioning System





Key Features

- Outstanding 1km detection without lighting
- Min. discernable temperature of 0.08°C
- Built-in 50mm, 0.47mrad. Color pattern
- OSD, RS-485, IP66, 24V AC

Accessories (Optional)



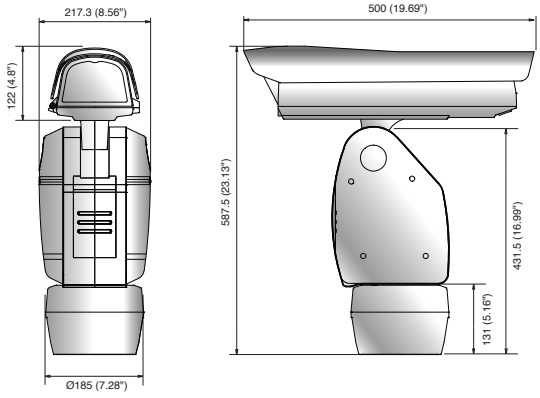
SBU-500WM



SBU-220PM

Dimensions

Unit : mm (inch)



Technical Specifications

	SCU-9051N	SCU-9051P
VIDEO		
Imaging Device	320(H) x 240(H) uncooled VOX microbolometer	
Sensor Pitch	23.5μm	
Measured Wavelength Range	8 ~ 14um, LWIR	
Video Ratio (Sensor)	30fps	25fps
Thermal Sensitivity (NETD)	85mK@F1.4	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
LENS		
Focal Length (Zoom Ratio)	50mm (Fixed)	
Max. Aperture Ratio	1 : 1.4	
Angular Field of View (HxV)	8.6° x 6.5°	
Min. Object Distance	27m ~ ∞, Pan focus	
IFOV (Instaneous Field of View)	0.47mrad	
PAN / TILT		
Pan Range	360° Endless	
Pan Speed	Preset : 0.1° ~ 120°/sec, Manual : 0.1°/sec ~ 36°/sec (Turbo : 120°/sec)	
Tilt Range	-85° ~ 40°	
Tilt Speed	Preset : 0.1° ~ 36°/sec, Manual : 0.1°/sec ~ 36°/sec	
Preset	255	
Preset Accuracy	±0.1°	
OPERATIONAL		
On Screen Display	English, Chinese, French, German, Spanish, Italian, Portuguese	
Image Mode	Color 1 / Color 2 / ISO / B/W	
Sharpness	Off / On (Manual)	
Contrast Enhancement	Auto / Manual	
Digital Noise Reduction	3D-DNR (4 Step : Low / Medium / High / Off)	
Digital Zoom	Off / On (1x ~ 4x)	
Temp Display	8 Zone / Point	
IV (Intelligence Video)	Fence / Tracking / MD	
ISO / Fire Man	Isolated temp display / Fire man	
Alarm	3 In 2 Out 1 Aux	
Communication	Coaxial control, RS-485	
Protocol	Coax : Pelco-C (Coaxitron) RS-485 : Samsung-T/E, Pelco-D/P, Panasonic, Vicon, Honeywell, AD, GE, Bosch	
ENVIRONMENTAL		
Operating Temperature / Humidity	-50°C ~ +50°C (-58°F ~ +122°F) / Up to 100% RH	
Ingress Protection	IP66	
ELECTRICAL		
Input Voltage	24V AC ±10%	
Power Consumption	Max. 40W / 144W (Fan & heater on)	
MECHANICAL		
Color / Material	Ivory / Aluminum	
Dimensions (WxHxD)	217.3 x 587.5 x 500.0mm (8.56" x 23.13" x 19.69")	
Weight	17.5Kg (38.58 lb)	

SCU-VAC/VAC1

Weatherproof Thermal Positioning System



600TVL | 0.2Lux | 37x A/F Lens | D&N ICR | 24VAC

Technical Specifications

		SCU-VAC	SCU-VAC1
Electrical	Input Voltage	24VAC	
	Power Consumption	Max. 100W	
Operational	Pan Range	360° Endless	
	Pan Speed	Preset : 0.1°~120°/sec, Manual : 0.1°~ 36 °/sec (Turbo : 120 °/sec)	
	Tilt Range	-85°~ 40°	
	Tilt Speed	Preset : 0.1°~ 36°/sec, Manual : 0.1°~ 36 °/sec	
	Preset Positions	255	
	Preset Accuracy	±0.1°	
Environmental	Operating Temperature	-50°C ~ +50°C (-58°F ~ +122°F)	
	Operating Humidity	0% ~ 90% RH	
Material		Aluminum diecasting	
Dimensions		217.3 x 587.5 x 500mm (8.56" x 23.13" x 19.69")	
Mechanical	Weight	17Kg (37.48 lb)	
	Ingress Protection	IP66	
	Certificate	FCC(Class A), UL/cUL Listed, CE (Class A)	

Key Features

- Integrated Receiver, Pan/ Tilt, and Housing
- 360° Continuous Pan Rotation
- Tilt Range of +40° to -85°
- 255 Programmable Presets
- Accepts standard box camera/lens.

Accessories (Optional)



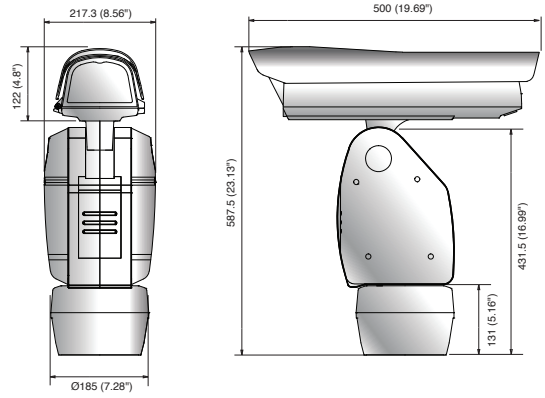
SBU-500WM



SBU-220PM

Dimensions

Unit : mm (inch)





LENSES

Samsung Total Security Solutions



Lens Selection

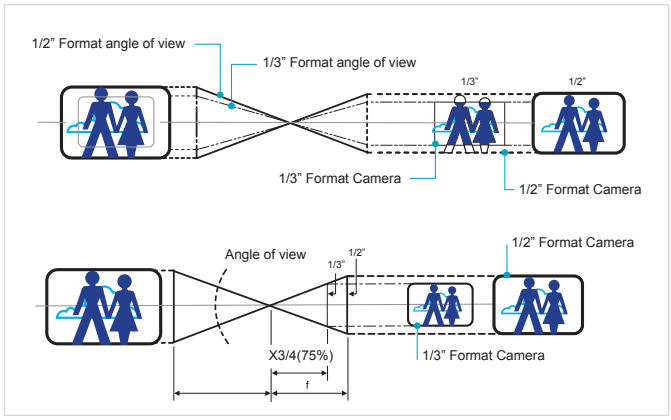
Lens Description	Model	Image	Mount	Image Format	Resolution	Focal Length	Back Focal Length	Zoom Ratio	F. No	Minimum Angle of View	Operation			Dimensions (WxHxD)mm / inch	Weight (g / lb)
											Iris	Focus	Zoom		
Zoom Lens	SLA-12240		C	1/2"	1.3Megapixel	12 ~ 240mm 0.47" ~ 9.45"	19.82mm 0.78"	20	1.6	38.9° ~ 1.9°	Auto	Motorized	Motorized	116.0 x 135.0 x 223.5mm 4.57" x 5.31" x 8.8"	2.6Kg 5.73 lb
	SLA-880				VGA	8 ~ 80mm 0.31" ~ 3.15"	15.3mm 0.6"	10	1.2	54.3° ~ 5.8°				70.0 x 81.0 x 123.5mm 2.76" x 3.19" x 4.86"	670g 1.48 lb
Varifocal Lens	SLA-3580DN		CS	1/3"		3.5 ~ 8mm 0.14" ~ 0.31"	8.7 ~ 14.7mm 0.34" ~ 0.58"	2.3	1.0	111.2° ~ 44.7°	DC	Manual	Manual	38.6 x 45.3 x 46.0mm 1.52" x 1.78" x 4.86"	54.5g 0.12 lb
	SLA-2810D					2.8 ~ 10mm 0.11" ~ 0.39"	7.8 ~ 17mm 0.3" ~ 0.67"	3	1.4	115.8° ~ 35.8°				40.0 x 46.0 x 57.2mm 1.57" x 1.81" x 2.25"	65g 0.14 lb
	SLA-550DA					5 ~ 50mm 0.2" ~ 1.97"	7.6 ~ 11.5mm 0.3" ~ 0.45"	10	1.4	65.7° ~ 7.2°				44.5 x 50.8 x 66.2mm 1.75" x 2" x 2.61"	126g 0.28 lb
	SLA-612DN			1/2"		6 ~ 12mm 0.24" ~ 0.47"	7.55 ~ 12.13mm 0.3" ~ 0.48"	2	1.6	81.4° ~ 38.8°				40.4 x 45.7 x 43.5mm 1.6" x 1.8" x 1.71"	53g 0.12 lb
	SLA-M2882			1/3"	1.3Megapixel	2.8 ~ 8.2mm 0.11" ~ 0.32"	7.97 ~ 14.12mm 0.31" ~ 0.56"	2.9	1.4	116.5° ~ 42.4°				43.8 x 48.1 x 52.0mm 1.72" x 1.89" x 2.05"	100g 0.22 lb
	SLA-M3180DN			1/2.8"	3Megapixel	3.1 ~ 8mm 0.12" ~ 0.31"	7.8mm 0.31"	2.6	1.2	123.1° ~ 48.3°				43.8 x 48.2 x 55.0mm 1.72" x 1.90" x 2.17"	59g 0.13 lb

Field of View (1/3" TYPE CCD)

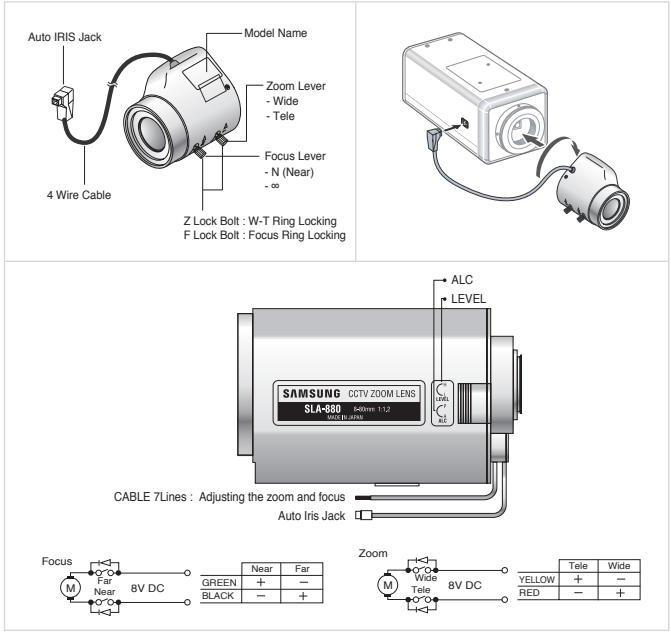
D(m) \ F(mm)	3.6	6	12	16	25	50	75	180
1	1.33 x 1.00	0.80 x 0.60	0.40 x 0.30	0.30 x 0.23	0.19 x 0.14	0.10 x 0.07	0.06 x 0.05	0.03 x 0.02
1.5	2.00 x 1.50	1.20 x 0.90	0.60 x 0.45	0.45 x 0.34	0.29 x 0.22	0.14 x 0.11	0.10 x 0.07	0.04 x 0.03
2	2.67 x 2.00	1.60 x 1.20	0.80 x 0.60	0.60 x 0.45	0.38 x 0.29	0.19 x 0.14	0.13 x 0.10	0.05 x 0.04
2.5	3.33 x 2.50	2.00 x 1.50	1.00 x 0.75	0.75 x 0.56	0.48 x 0.36	0.24 x 0.18	0.16 x 0.12	0.07 x 0.05
3	4.00 x 3.00	2.40 x 1.80	1.20 x 1.90	0.90 x 0.68	0.58 x 0.43	0.29 x 0.22	0.19 x 0.14	0.08 x 0.06
3.5	4.67 x 3.50	2.80 x 2.10	1.40 x 1.05	1.05 x 0.79	0.67 x 0.50	0.34 x 0.25	0.22 x 0.17	0.09 x 0.07
4	5.33 x 4.00	3.20 x 2.40	1.60 x 1.20	1.20 x 0.90	0.77 x 0.58	0.38 x 0.29	0.26 x 0.19	0.11 x 0.08
4.5	6.00 x 4.50	3.60 x 2.70	1.80 x 1.35	1.35 x 1.01	0.86 x 0.65	0.43 x 0.32	0.29 x 0.22	0.12 x 0.09
5	6.67 x 5.00	4.00 x 3.00	2.00 x 1.50	1.50 x 1.13	0.96 x 0.72	0.48 x 0.36	0.32 x 0.24	0.13 x 0.10
6	8.00 x 6.00	4.80 x 3.60	2.40 x 1.80	1.80 x 1.35	1.15 x 0.86	0.58 x 0.43	0.38 x 0.29	0.16 x 0.12
7	9.33 x 7.00	5.60 x 4.20	2.80 x 2.10	2.10 x 1.58	1.34 x 1.01	0.67 x 0.50	0.45 x 0.34	0.19 x 0.14
8	10.67 x 8.00	6.40 x 4.80	3.20 x 2.40	2.40 x 1.80	1.54 x 1.15	0.77 x 0.58	0.51 x 0.38	0.21 x 0.16
9	12.00 x 9.00	7.20 x 5.40	3.60 x 2.70	2.70 x 2.03	1.73 x 1.30	0.86 x 0.65	0.58 x 0.43	0.24 x 0.18
10	13.33 x 10.00	8.00 x 6.00	4.00 x 3.00	3.00 x 2.25	1.92 x 1.44	0.96 x 0.72	0.64 x 0.48	0.27 x 0.20
11	14.67 x 11.00	8.80 x 6.60	4.40 x 3.30	3.30 x 2.48	2.11 x 1.58	1.06 x 0.79	0.70 x 0.53	0.29 x 0.22
12	16.00 x 12.00	9.60 x 7.20	4.80 x 3.60	3.60 x 2.70	2.30 x 1.73	1.15 x 0.86	0.77 x 0.58	0.32 x 0.24
13	17.33 x 13.00	10.40 x 7.80	5.20 x 3.90	3.90 x 2.93	2.50 x 1.87	1.25 x 0.94	0.83 x 0.62	0.35 x 0.26
14	18.67 x 14.00	11.20 x 8.40	5.60 x 4.20	4.20 x 3.15	2.69 x 2.02	1.34 x 1.01	0.90 x 0.67	0.37 x 0.28
15	20.00 x 15.00	12.00 x 9.00	6.00 x 4.50	4.50 x 3.38	2.88 x 2.16	1.44 x 1.08	0.96 x 0.72	0.40 x 0.30
20	26.67 x 20.00	16.00 x 12.00	8.00 x 6.00	6.00 x 4.50	3.84 x 2.88	1.92 x 1.44	1.28 x 0.96	0.53 x 0.40
25	33.33 x 25.00	20.00 x 15.00	10.00 x 7.50	7.50 x 5.63	4.80 x 3.60	2.40 x 1.80	1.60 x 1.20	0.67 x 0.50
30	40.00 x 30.00	24.00 x 18.00	12.00 x 9.00	9.00 x 6.75	5.76 x 4.32	2.88 x 2.16	1.92 x 1.44	0.80 x 0.60
60	80.00 x 60.00	48.00 x 36.00	24.00 x 18.00	18.00 x 13.50	11.52 x 8.64	5.76 x 4.32	3.84 x 2.88	1.60 x 1.20
90	120.00 x 90.00	72.00 x 54.00	36.00 x 27.00	27.00 x 20.25	17.28 x 12.96	8.64 x 6.48	5.76 x 4.32	2.40 x 1.80
120	160.00 x 120.00	96.00 x 72.00	48.00 x 36.00	36.00 x 27.00	23.04 x 17.28	11.52 x 8.64	7.68 x 5.76	3.20 x 2.40
150	200.00 x 150.00	120.00 x 90.00	60.00 x 45.00	45.00 x 33.75	28.80 x 21.60	14.40 x 10.80	9.60 x 7.20	4.00 x 3.00

Lens Terms & Features

Lens Angle of View



Lens Parts & Names



Focal Length

The distance (in millimeters) from the lens to the surface of the image sensor. The shorter the distance, the wider the view : the longer the distance, the narrower (telephoto) the view.

Varifocal Lens

A lens type where the focal length can be varied to give the exact image desired. It is similar to a manual zoom lens, except that a varifocal lens has fewer elements and will go out of focus whenever the zoom setting is changed.

Zoom Lens

A lens type that is capable of enlarging or reducing, on a continuously variable basis, the magnification of a televised image primarily by varying lens focal length.

C/CS-Mount

The two industry standards for mounting a lens on a camera. The C-mount lens has a 17.5mm flange back distance. The CS-mount lens has a 12.5mm flange back distance.

Manual Iris / Auto Iris

The Iris is the adjustable opening (Mechanical diaphragm) through which light can pass and be regulated.

Manual iris

A lens with a manual adjustment to set the iris opening (F stop) in a fixed position. Generally used for fixed lighting applications.

Auto iris

A lens in which the aperture automatically opens or closes to maintain proper light levels on the camera's pickup device. An auto iris lens is required outdoors or where lighting levels change.

Field of View at a Glance

Field of view formula

CCD	1/4"	1/3"	1/2"
Width	(3.6 x L) / f	(4.8 x L) / f	(6.4 x L) / f
Height	(2.7 x L) / f	(3.6 x L) / f	(4.8 x L) / f

W (m) : Width of scene
H (m) : Height of scene
f (mm) : Lens focal length
L (m) : Distance between lens and subject

SLA-12240/880

1/2" C-mount Motorized 20x/10x Zoom Lens



SLA-12240 SLA-880

C Mount | 12 ~ 240mm | 8 ~ 80mm | MEGA PIXEL | Wide

Key Features

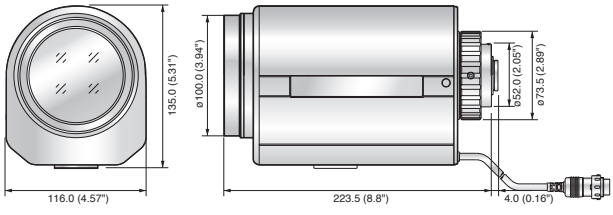
- Built-in 50mm lens with micro bolometer sensor
- Auto iris : SLA-12240 (DC), SLA-880 (Video)
- 20x optical zoom, 12 ~ 240mm / 0.47" ~ 9.45" (SLA-12240)
  10x optical zoom, 8 ~ 80mm / 0.31" ~ 3.15" (SLA-880)

Technical Specifications

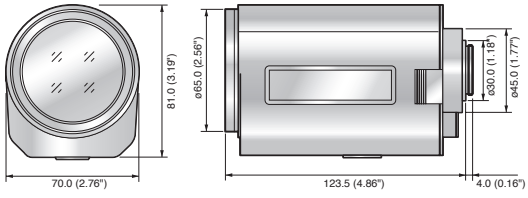
		SLA-12240	SLA-880	
CCD		1/2"	1/2"	1/3"
Resolution		1.3Megapixel	VGA	
Iris Type		Auto iris (DC)	Auto iris (Video)	
Object Distance		2.8m ~ ∞	0.2m ~ ∞	
Zoom		20x	10x	
Mount		C-mount		
Focal Length		12 ~ 240mm / 0.47" ~ 9.45"	8 ~ 80mm / 0.31" ~ 3.15"	
Max. Aperture Ratio		F 1.6	F 1.2	
Angle of View	Diagonal	38.9° ~ 1.9°	54.3° ~ 5.8°	41.3° ~ 4.4°
	Horizontal	30.8° ~ 1.6°	44.0° ~ 4.7°	33.3° ~ 3.5°
	Vertical	23° ~ 1.2°	33.3° ~ 3.5°	25° ~ 2.6°
Operation	Iris	F 1.6 ~ F 720C	F 1.2 ~ F 560C	
	Focus	2.8m ~ ∞	1.5m ~ ∞	
	Zoom	12 ~ 240mm / 0.47" ~ 9.45"	8 ~ 80mm / 0.31" ~ 3.15"	
Control	Iris	3.3V DC	8.5V DC ~ 16V DC	
	Focus	6 ~ 12V DC	8V DC	
	Zoom	6 ~ 12V DC	8V DC	
Object Dimension at M.O.D.		240mm : 66mm x 50mm 9.45" : 2.6" x 1.97"	80mm : 123mm x 92mm 3.15" : 4.84" x 3.62"	
Back Focal Length		19.82mm / 0.78"	15.3mm / 0.6"	
Flange Back Length		17.526mm / 0.69"	17.526mm / 0.69"	
Preset		Built-in	N/A	
Input Signal		Video signal (V or VS)		
Sensitivity Adjustment		0.5V(p-p) ~ 1.0V(p-p) (Video signal)		
Operating Temperature		-10°C~ +50°C (+14°F ~ +122°F)		
Dimensions (WxHxD)		116.0 x 135.0 x 223.5mm (4.57" x 5.31" x 8.8")	70.0 x 81.0 x 123.5mm (2.76" x 3.19" x 4.86")	
Weight		2.6Kg (5.73 lb)	670g (1.48 lb)	

Dimensions

Unit : mm (inch)



SLA-12240



SLA-880

SLA-3580DN/2810D/550DA/612DN

1/3", 1/2" CS-mount Auto Iris Lens



SLA-3580DN SLA-2810D SLA-550DA SLA-612DN

CS Mount | Varifocal | DC Iris | Manual Zoom | Manual Focus

Key Features

- F1.0 (SLA-3580DN), F1.4 (SLA-2810D/550DA)
  F1.6 (SLA-612DN) DC type auto iris
- Varifocal 3.5 ~ 8mm / 0.14" ~ 0.31" (SLA-3580DN)
  2.8 ~ 10mm / 0.11" ~ 0.39" (SLA-2810D)
  5 ~ 50mm / 0.2" ~ 1.97" (SLA-550DA)
  6 ~ 12mm / 0.24" ~ 0.47" (SLA-612DN)

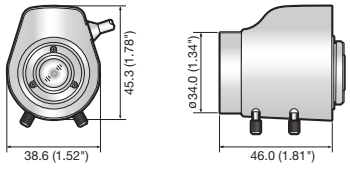
Technical Specifications

		SLA-3580DN	SLA-2810D	SLA-550DA	SLA-612DN
CCD		1/3"	1/3"	1/3"	1/2"
Resolution		VGA	VGA	VGA	VGA
Focal Length		3.5 ~ 8mm 0.14" ~ 0.31"	2.8 ~ 10mm 0.11" ~ 0.39"	5 ~ 50mm 0.2" ~ 1.97"	6 ~ 12mm 0.24" ~ 0.47"
Max. Aperture Ratio		1 : 1 ~ 360	1 : 1.4 ~ 360	1 : 1.4 ~ 360	1 : 1.6 ~ 300
Max. Image Format		4.8(H) x 3.6(V)	4.8(H) x 3.6(V)	4.8(H) x 3.6(V)	6.4(H) x 4.8(V)
Angle of View	Diagonal	111.2° ~ 44.7°	115.8° ~ 35.3°	65.7° ~ 7.2°	86.4° ~ 38.8°
	Horizontal	83.5° ~ 35.6°	93.7° ~ 28.3°	52.7° ~ 5.7°	65.3° ~ 30.8°
	Vertical	60.4° ~ 26.6°	70.6° ~ 21.2°	39.6° ~ 4.3°	47.4° ~ 23°
Operation	Iris	Auto (F1.0 ~ 360)	Auto (F1.4 ~ 360)	Auto (F1.4 ~ 360)	Auto (F1.6 ~ 300)
	Focus	Manual	Manual	Manual	Manual
	Zoom	Manual	Manual	Manual	Manual
Iris Type		DC	DC	DC	DC
Effective Lens Aperture	Front	Ø17.5mm Ø0.69"	Ø20.5mm Ø0.81"	Ø37.7mm Ø1.48"	Ø17.9mm Ø0.7"
	Rear	Ø8.8mm Ø0.37"	Ø8.8mm Ø0.35"	Ø10mm Ø0.4"	Ø9mm Ø0.35"
Back Focal Length		8.7 ~ 14.7mm 0.34" ~ 0.58"	7.8 ~ 17mm 0.3" ~ 0.67"	7.6 ~ 11.5mm 0.3" ~ 0.45"	7.55 ~ 12.13mm 0.3" ~ 0.48"
Flange Back Length		12.5mm / 0.49"	12.5mm / 0.49"	12.5mm / 0.49"	12.5mm / 0.49"
Mount		CS-mount	CS-mount	CS-mount	CS-mount
Dimensions (WxHxD)		38.6 x 45.3 x 46.0mm (1.52" x 1.78" x 1.81")	40.0 x 46.0 x 57.2mm (1.57" x 1.81" x 2.25")	44.5 x 50.8 x 66.2mm (1.75" x 2" x 2.61")	40.4 x 45.7 x 43.5mm (1.6" x 1.8" x 1.71")
Weight		54.5g (0.12 lb)	65g (0.14 lb)	126g (0.28 lb)	53g (0.12 lb)

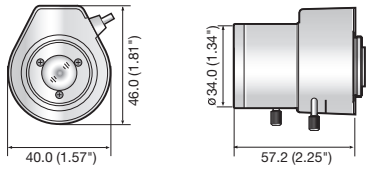
Dimensions

Unit : mm (inch)

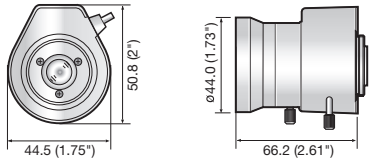
SLA-3580DN



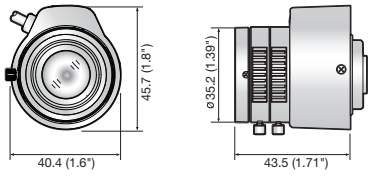
SLA-2810D



SLA-550DA



SLA-612DN



SLA-M2882/M3180DN

1/3", 1/2.8" CS-mount Auto Iris Megapixel Lens



SLA-M2882



SLA-M3180DN

CS Mount | Varifocal | DC Iris | Manual Zoom | Manual Focus | MEGA PIXEL

Key Features

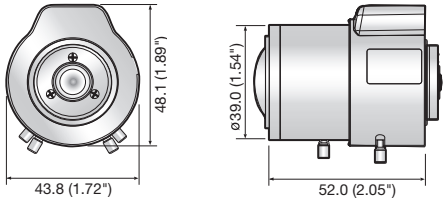
- F1.4 (SLA-M2882), F1.2 (SLA-M3180DN) DC type auto iris
- Varifocal 2.8 ~ 8.2mm / 0.11" ~ 0.32" (SLA-M2882)
  3.1 ~ 8mm / 0.12" ~ 0.31" (SLA-M3180DN)

Technical Specifications

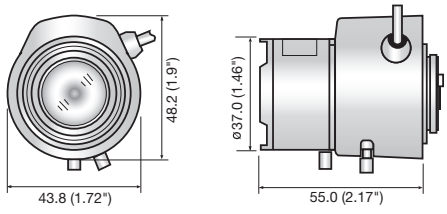
		SLA-M2882	SLA-M3180DN
CCD		1/3"	1/2.8"
Resolution		1.3Megapixel	3Megapixel
Focal Length		2.8 ~ 8.2mm / 0.11" ~ 0.32"	3.1 ~ 8mm / 0.12" ~ 0.31"
Max. Aperture Ratio		1 : 1.4 ~ 360	1 : 1.2 ~ 360
Max. Image Format		4.8(H) x 3.6(V)	3.2(H) x 5.8(V)
Angle of View	Diagonal	116.5° ~ 42.4°	123.1° ~ 48.3°
	Horizontal	94.2° ~ 34.1°	105.4° ~ 42.2°
	Vertical	71° ~ 25.6°	57.9° ~ 23.8°
Operation	Iris	Auto (F1.4 ~ 360)	Auto (F1.2 ~ 360)
	Focus	Manual	Manual
	Zoom	Manual	Manual
Iris Type		DC	DC
Effective Lens Aperture	Front	Ø26mm / Ø1.02"	Ø20.9mm / Ø0.82"
	Rear	Ø8.6mm / Ø0.34"	Ø10.5mm / Ø0.41"
Back Focal Length		7.97 ~ 14.12mm / 0.31" ~ 0.56"	7.8mm / 0.31"
Flange Back Length		12.5mm / 0.49"	12.5mm / 0.49"
Mount		CS-mount	CS-mount
Dimensions (WxHxD)		43.8 x 48.1 x 52.0mm (1.72" x 1.89" x 2.05")	43.8 x 48.2 x 55.0mm (1.72" x 1.9" x 2.17")
Weight		100g (0.22 lb)	59g (0.13 lb)

Dimensions

Unit : mm (inch)



SLA-M2882



SLA-M3180DN





DVR

Samsung Total Security Solutions

DVR Product Selection

		SRD-1670DC	SRD-1650DC
			
OS	Embedded	Linux	Linux
Live	Frame Rate	480fps NTSC, 400fps PAL	480fps NTSC, 400fps PAL
Recording	Record Rate / NTSC	Up to 480fps@704 x 480 (4CIF) Up to 480fps@704 x 240 (2CIF) Up to 480fps@352 x 240 (CIF)	Up to 120fps@704 x 480 (4CIF) Up to 240fps@704 x 240 (2CIF) Up to 480fps@352 x 240 (CIF)
	Record Rate / PAL	Up to 400fps@704 x 576 (4CIF) Up to 400fps@704 x 288 (2CIF) Up to 400fps@352 x 288 (CIF)	Up to 100fps@704 x 576 (4CIF) Up to 200fps@704 x 288 (2CIF) Up to 400fps@352 x 288 (CIF)
Recording	Compression	H.264	H.264
Video	Inputs	16CH	16CH
	Resolution	704 x 480 NTSC, 704 x 576 PAL	704 x 480 NTSC, 704 x 576 PAL
Audio	Inputs	16CH line in (Built-in 4CH)	16CH line in (Built-in 4CH)
Storage	Internal HDD	Up to 5 SATA HDDs	Up to 5 SATA HDDs
	External HDD	Up to 2 expansion bay	Up to 2 expansion bay
Monitors	VGA	Yes	Yes
	HDMI	Yes	Yes
	Main Composite	1CH	1CH
	Spot Composite	4CH	1CH
Connections	USB	USB 2.0, 3 ports	USB 2.0, 3 ports
	e-SATA	2 External SATA ports	2 External SATA ports
	DVD Writer (Back up)	Yes	Yes
	Mouse	Yes	Yes
Network	Remote Users	Search 3 / Live unicast 10 / Live multicast 20	Search 3 / Live unicast 10 / Live multicast 20
	Transmission Speed	CIF 480/400fps	CIF 480/400fps
	Monitoring	NET-i viewer, SmartViewer, Webviewer	NET-i viewer, SmartViewer, Webviewer

* Option : Audio extension cable (SRX-AU0121I)
* SRD-1670DC/1650DC : PTZ control via coaxial cable [Samsung CCVC, Pelco-C (Coaxitron)]

		SRD-1630D	SRD-1610D
			
OS	Embedded	Linux	Linux
Live	Frame Rate	480fps NTSC, 400fps PAL	480fps NTSC, 400fps PAL
Recording	Record Rate / NTSC	Up to 60fps@704 x 480 (4CIF) Up to 120fps@704 x 240 (2CIF) Up to 240fps@352 x 240 (CIF)	Up to 30fps@704 x 480 (4CIF) Up to 60fps@704 x 240 (2CIF) Up to 120fps@352 x 240 (CIF)
	Record Rate / PAL	Up to 50fps@704 x 576 (4CIF) Up to 100fps@704 x 288 (2CIF) Up to 200fps@352 x 288 (CIF)	Up to 25fps@704 x 576 (4CIF) Up to 50fps@704 x 288 (2CIF) Up to 100fps@352 x 288 (CIF)
Recording	Compression	H.264	H.264
Video	Inputs	16CH	16CH
	Resolution	704 x 480 NTSC, 704 x 576 PAL	704 x 480 NTSC, 704 x 576 PAL
Audio	Inputs	4CH line in (Built-in 4CH)	4CH line in (Built-in 4CH)
Storage	Internal HDD	Up to 5 SATA HDDs	Up to 5 SATA HDDs
	External HDD	N/A	N/A
Monitors	VGA	Yes	Yes
	HDMI	N/A	N/A
	Main Composite	1CH	1CH
	Spot Composite	1CH	1CH
Connections	USB	USB 2.0, 3 ports	USB 2.0, 3 ports
	e-SATA	N/A	N/A
	DVD Writer (Back up)	Yes	Yes
	Mouse	Yes	Yes
Network	Remote Users	Search 3 / Live unicast 10 / Live multicast 20	Search 3 / Live unicast 10 / Live multicast 20
	Transmission Speed	CIF 480/400fps	CIF 480/400fps
	Monitoring	NET-i viewer, SmartViewer, Webviewer	NET-i viewer, SmartViewer, Webviewer

* Option : Audio extension cable (SRX-AU121I)

DVR Product Selection

		SRD-870DC	SRD-850DC	SRD-830D
				
OS	Embedded	Linux	Linux	Linux
Live	Frame Rate	240fps NTSC, 200fps PAL	240fps NTSC, 200fps PAL	240fps NTSC, 200fps PAL
Recording	Record Rate / NTSC	Up to 240fps@704 x 480 (4CIF) Up to 240fps@704 x 240 (2CIF) Up to 240fps@352 x 240 (CIF)	Up to 60fps@704 x 480 (4CIF) Up to 120fps@704 x 240 (2CIF) Up to 240fps@352 x 240 (CIF)	Up to 30fps@704 x 480 (4CIF) Up to 60fps@704 x 240 (2CIF) Up to 120fps@352 x 240 (CIF)
	Record Rate / PAL	Up to 200fps@704 x 576 (4CIF) Up to 200fps@704 x 288 (2CIF) Up to 200fps@352 x 288 (CIF)	Up to 50fps@704 x 576 (4CIF) Up to 100fps@704 x 288 (2CIF) Up to 200fps@352 x 288 (CIF)	Up to 25fps@704 x 576 (4CIF) Up to 50fps@704 x 288 (2CIF) Up to 100fps@352 x 288 (CIF)
Recording	Compression	H.264	H.264	H.264
Video	Inputs	8CH	8CH	8CH
	Resolution	704 x 480 NTSC, 704 x 576 PAL	704 x 480 NTSC, 704 x 576 PAL	704 x 480 NTSC, 704 x 576 PAL
Audio	Inputs	8CH line in (Built-in 4CH)	8CH line in (Built-in 4CH)	4CH line in (Built-in 4CH)
Storage	Internal HDD	Up to 5 SATA HDDs	Up to 5 SATA HDDs	Up to 5 SATA HDDs
	External HDD	Up to 2 expansion bay	Up to 2 expansion bay	N/A
Monitors	VGA	Yes	Yes	Yes
	HDMI	Yes	Yes	N/A
	Main Composite	1CH	1CH	1CH
	Spot Composite	2CH	1CH	1CH
Connections	USB	USB 2.0, 3 ports	USB 2.0, 3 ports	USB 2.0, 3 ports
	e-SATA	2 External SATA ports	2 External SATA ports	N/A
	DVD Writer (Back up)	Yes	Yes	Yes
	Mouse	Yes	Yes	Yes
Network	Remote Users	Search 3 / Live unicast 10 / Live multicast 20	Search 3 / Live unicast 10 / Live multicast 20	Search 3 / Live unicast 10 / Live multicast 20
	Transmission Speed	CIF 240/200fps	CIF 240/200fps	CIF 240/200fps
	Monitoring	NET-i viewer, SmartViewer, Webviewer	NET-i viewer, SmartViewer, Webviewer	NET-i viewer, SmartViewer, Webviewer

* Option : Audio extension cable (SRX-AU041I)
* SRD-870DC/850DC: PTZ control via coaxial cable [Samsung CCVC, Pelco-C (coaxitron)]

		SRD-470D	SRD-450
			
OS	Embedded	Linux	Linux
Live	Frame Rate	120fps NTSC, 100fps PAL	120fps NTSC, 100fps PAL
Recording	Record Rate / NTSC	Up to 120fps@704 x 480 (4CIF) Up to 120fps@704 x 240 (2CIF) Up to 120fps@352 x 240 (CIF)	Up to 30fps@704 x 480 (4CIF) Up to 60fps@704 x 240 (2CIF) Up to 120fps@352 x 240 (CIF)
	Record Rate / PAL	Up to 100fps@704 x 576 (4CIF) Up to 100fps@704 x 288 (2CIF) Up to 100fps@352 x 288 (CIF)	Up to 25fps@704 x 576 (4CIF) Up to 50fps@704 x 288 (2CIF) Up to 100fps@352 x 288 (CIF)
Recording	Compression	H.264	H.264
Video	Inputs	4CH (Built-in 4CH)	4CH (Built-in 4CH)
	Resolution	704 x 480 NTSC, 704 x 576 PAL	704 x 480 NTSC, 704 x 576 PAL
Audio	Inputs	4CH line in	4CH line in
Storage	Internal HDD	Up to 1 SATA HDD	Up to 1 SATA HDD
	External HDD	N/A	N/A
Monitors	VGA	Yes	Yes
	HDMI	N/A	N/A
	Main Composite	1CH	1CH
	Spot Composite	1CH	N/A
Connections	USB	USB 2.0, 2 ports	USB 2.0, 2 ports
	e-SATA	N/A	N/A
	DVD Writer (Back up)	Yes	N/A
	Mouse	Yes	Yes
Network	Remote Users	Search 3 / Live unicast 10 / Live multicast 20	Live 4 / Search 4
	Transmission Speed	CIF 120/100fps	CIF 120/100fps
	Monitoring	NET-i viewer, SmartViewer, Webviewer	Webviewer

New DVR Features

High Quality Image

High Definition Real-time Recording & Play back

The SRD series features leading live and playback image quality. Each unit is capable of recording up to real-time 4CIF images across selected channels, if not all channels.



REC



Real-time Play Back

CIF / 4CIF Real-time Recording

The SRD series can provide both 4CIF and CIF real time recording.

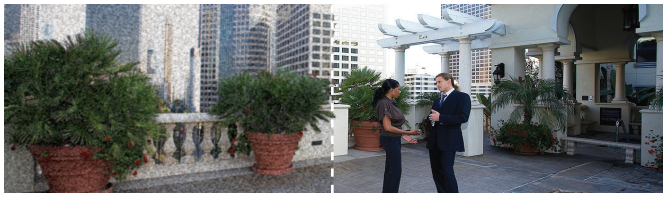


CIF Recording

4CIF Recording

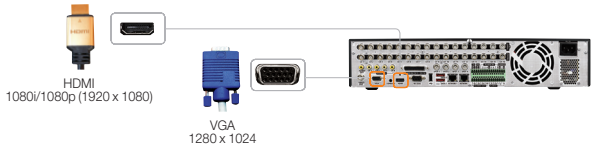
High Definition (1080p)

High performance DVR series offer HDMI output for high definition playback.



480 Resolution

1080p Resolution

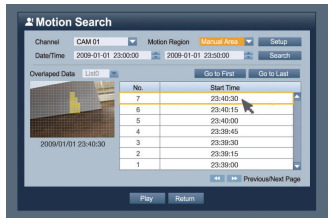


GUI (Graphic User Interface)

A shared GUI across all models makes it extremely easy to set-up and use the SRD series. Even a first time user will be able to easily navigate the menu and operational functions thanks to its intuitive, user friendly design.

Motion Search

One hour window motion search can be easily set up by using the GUI. Finding out what happened to your interest area is much more convenient with Motion Search function. When user set the areas want to look up, this feature shows the changes in that areas for a given period of time.



Motion Search

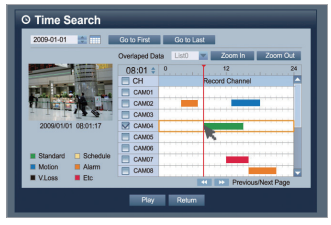


Real-time Play Back

Searching Preview

Displaying 1CH still image before playback (all search mode support). For all search modes, SRD series display 1 channel still image before playback. User can easily recognize which channel to play.

Search Mode • Event • Back up • POS • Motion • Time



Time Search



Real-time Play Back

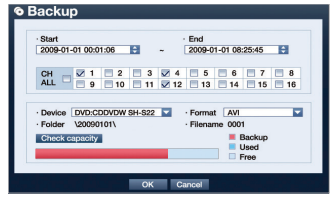
Easy Back up during Play Back

Convenient back-up is possible with all SRD series DVRs allowing users to assign the starting point and the ending point of the video that needs to be backed-up during playback.



Easy Back up GUI

The easy- to-use GUI supports various back-up modes for each channel. Users can select a back-up device and start/end time and then the DVR automatically checks the capacity of the device.



VPS (Virtual Progressive Scan)

All DVRs offer a VPS feature which eliminates the problem of blurred edges on moving objects, when used with Samsung cameras with VPS feature included.

Easy Upgrade and Installation

A fully removable back BNC panel allows hard drives to be easily swapped and upgraded without having to unplug all of the cables.

SRD-1670DC

16CH 4CIF Real-time H.264 Digital Video Recorder





Key Features

- 16CH 4CIF real-time DVR
- Up to 480(NTSC) / 400(PAL)fps recording rate
- Max. 5 internal HDD (HDD x 5)
- PTZ control via coaxial cable [Samsung CCVC, Pelco-C (Coaxitron)]
- DVD-RW
- Support for smart phone

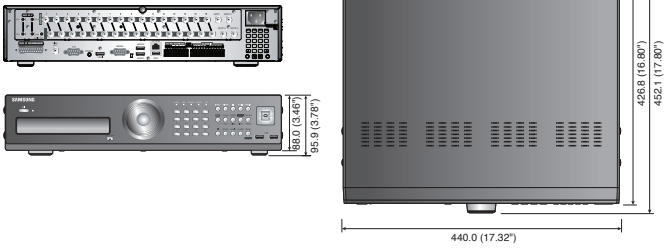
Accessory (Optional)



SRX-AU0121I

Dimensions

Unit : mm (inch)



Technical Specifications

		SRD-1670D
DISPLAY		
Video	Inputs	16 Composite video 0.5-1 Vp-p, 75 ohm automatic termination
	Resolution	NTSC : 704 x 480 / PAL : 704 x 576
Live	Frame Rate	NTSC : 480fps / PAL : 400fps
	Resolution	NTSC : 704 x 480 / PAL : 704 x 576
	Multi Screen Display	1 / 4 / 6 / 8 / 9 / 13 / 16 / PIP
PERFORMANCE		
Operating System	Embedded	Linux
Recording	Compression	H.264
	Record Rate	NTSC : Up to 480fps@704 x 480 / PAL : Up to 400fps@704 x 576 NTSC : Up to 480fps@704 x 240 / PAL : Up to 400fps@704 x 288 NTSC : Up to 480fps@352 x 240 / PAL : Up to 400fps@352 x 288
	Mode	NTSC : Manual, Schedule (Continuous / Event), Event (Pre / Post), Time lapse (0.9 / 1.9 / 3.8 / 7.5 / 15 / 30fps) PAL : Manual, Schedule (Continuous / Event), Event (Pre / Post), Time lapse (0.8 / 1.6 / 3.1 / 6.2 / 12.5 / 25fps)
	Overwrite Modes	Continuous
	Pre-alarm	Up to 30sec (5, 10, 20, 30sec)
	Post-alarm	Up to 6hour (5,10, 20, 30sec, 1, 3, 5, 10, 20min, 1, 2, 3, 4, 5, 6hour)
Search & Playback	Search Mode	Date/Time, Event, Back up, Pos, Motion (*All search include preview function)
	Playback Function	Fast forward / backward, Slow forward / backward, Step forward / backward
Network	Transmission Speed	CIF 480/400fps
	Bandwidth	Up to 8Mbps, Unlimited (8M) / 2 / 1.5 / 1Mbps / 800 / 600 / 500 / 400 / 300 / 200 / 100 / 50kbps
	Bandwidth Control	Selectable
	Stream	H.264 (4CIF / 2CIF / CIF selectable)
	Max. Remote Users	Search 3 / Live unicast 10 / Live multicast 20
	Protocol Support	TCP/IP, DHCP, PPPoE, SMTP, NTP, HTTP, DDNS, RTP, RTSP
	Monitoring	NET-i viewer, SmartViewer, Webviewer
Smart Phone	Smart Phone	Android, i-Phone
	Protocol Support	RTSP/RTP (UDP), CGI, HTTP
	Transmission Speed	Wi-Fi : CIF Max. 4fps (Single channel) / CIF Max. 4fps (Quad channel) 3G : CIF Max. 4fps (Single channel) / CIF Max. 4fps (Quad channel)
	Max. Remote Users	Live 1
Storage	Internal HDD	Up to 5 SATA HDDs
	External HDD	Up to 2 expansion bay (Up to 4 HDD each)
	DVD Writer (Back up)	Yes
	USB (Back up)	3 USB ports
	File Format (Back up)	AVI, BU (DVR player), EXE (Include player)
Security	Password Protection	1 Admin, 10 Group, 20 User per 1 group, User can be assigned authority for function
	Data Authentication	Watermark
INTERFACE		
Monitors	VGA	1 VGA (800 x 600, 1024 x 768, 1280 x 1024)
	HDMI	480p / 720p / 1080p resolution
	Main Composite	1 BNC, 1 Vp-p, 75 ohm
	Spot Composite	Digital spot (4 BNC, 1 Vp-p, 75 ohm), support multi screen and camera title
	Loop Outputs	16
Audio	Inputs / Output	16CH line in (Built-in 4CH, option : audio extension cable) / 1CH line out
	Compression	ADPCM
	Sampling Rate	16KHz
Alarm	Inputs / Output	Terminal 16 inputs (NO/NC) / Terminal 4 relay outputs (NO/NC), Rating : 30V DC / 2A, 125V AC / 0.5A
	Remote Notification	Notification via e-mail
Connections	Ethernet	1 RJ-45 10/100/1000 Base-T
	Serial Interface	RS-232/RS-485 for PTZ, Samsung system keyboard
	USB	USB 2.0, 3 ports
	eSATA	2 External SATA ports
	Application Support	Mouse, Remote controller
	Protocol Support	Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, Vicon PTZ control via coaxial cable [Samsung CCVC, Pelco-C (Coaxitron)]
GENERAL		
Electrical	Input Voltage / Current	100 ~ 240V AC ±10%, 50/60Hz, Autoranging
	Power Consumption	Max. 60W (With 1x HDD)
Environmental	Operating Temperature / Humidity	+0°C ~ +40°C (+32°F ~ +104°F) / 20% ~ 85% RH
Mechanical	Dimensions (WxHxD)	440.0 x 88.0 x 426.8mm (17.32" x 3.46" x 16.80")
	Weight (With hard disks)	Approx. 7.5Kg (16.53 lb)
	Rack Mount Kit	2ea
Language		Korean, Japanese, Chinese, English, French, German, Spanish, Italian, Russian, Polish, Czech, Turkish, Netherlands, Portuguese, Swedish, Danish, Thailandais, Rumanian, Serbian, Croatian, Hungarian, Greek (22 Language)

SRD-1650DC

16CH CIF Real-time H.264 Digital Video Recorder



16CH | H.264 | 480fps(N) 400fps(P) | CMS | Smart Phone

Key Features

- 16CH CIF real-time DVR
- Up to 480(NTSC) / 400(PAL)fps recording rate
- Max. 5 internal HDD (HDD x 5)
- PTZ control via coaxial cable [Samsung CCVC, Pelco-C (Coaxitron)]
- DVD-RW
- Support for smart phone

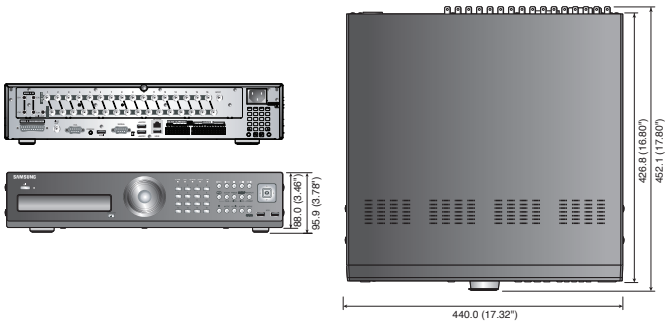
Accessory (Optional)



SRX-AU121I

Dimensions

Unit : mm (inch)



Technical Specifications

		SRD-1650DC
DISPLAY		
Video	Inputs	16 Composite video 0.5-1 Vp-p, 75 ohm automatic termination
	Resolution	NTSC : 704 x 480 / PAL : 704 x 576
Live	Frame Rate	NTSC : 480fps / PAL : 400fps
	Resolution	NTSC : 704 x 480 / PAL : 704 x 576
	Multi Screen Display	1 / 4 / 6 / 8 / 9 / 13 / 16 / PIP
PERFORMANCE		
Operating System	Embedded	Linux
Recording	Compression	H.264
	Record Rate	NTSC : Up to 120fps@704 x 480 / PAL : Up to 100fps@704 x 576 NTSC : Up to 240fps@704 x 240 / PAL : Up to 200fps@704 x 288 NTSC : Up to 480fps@352 x 240 / PAL : Up to 400fps@352 x 288
	Mode	NTSC : Manual, Schedule (Continuous / Event), Event (Pre / Post), Time lapse (0.9 / 1.9 / 3.8 / 7.5 / 15 / 30fps) PAL : Manual, Schedule (Continuous / Event), Event (Pre / Post), Time lapse (0.8 / 1.6 / 3.1 / 6.2 / 12.5 / 25fps)
	Overwrite Modes	Continuous
	Pre-alarm	Up to 30sec (5, 10, 20, 30sec)
	Post-alarm	Up to 6hour (5,10, 20, 30sec, 1, 3, 5, 10, 20min, 1, 2, 3, 4, 5, 6hour)
Search & Playback	Search Mode	Date/Time, Event, Back up, Pos, Motion (*All search include preview function)
	Playback Function	Fast forward / backward, Slow forward / backward, Step forward / backward
Network	Transmission Speed	CIF 480/400fps
	Bandwidth	Up to 8Mbps, Unlimited (8M) / 2 / 1.5 / 1Mbps / 800 / 600 / 500 / 400 / 300 / 200 / 100 / 50kbps
	Bandwidth Control	Selectable
	Stream	H.264 (4CIF / 2CIF / CIF selectable)
	Max. Remote Users	Search 3 / Live unicast 10 / Live multicast 20
	Protocol Support	TCP/IP, DHCP, PPPoE, SMTP, NTP, HTTP, DDNS, RTP, RTSP
	Monitoring	NET-i viewer, SmartViewer, Webviewer
Smart Phone	Smart Phone	Android, i-Phone
	Protocol Support	RTSP/RTP (UDP), CGI, HTTP
	Transmission Speed	Wi-Fi : CIF Max. 4fps (Single channel) / CIF Max. 4fps (Quad channel) 3G : CIF Max. 4fps (Single channel) / CIF Max. 4fps (Quad channel)
	Max. Remote Users	Live 1
Storage	Internal HDD	Up to 5 SATA HDDs
	External HDD	Up to 2 expansion bay (Up to 4 HDD each)
	DVD Writer (Back up)	Yes
	USB (Back up)	3 USB ports
	File Format (Back up)	AVI, BU (DVR player), EXE (Include player)
Security	Password Protection	1 Admin, 10 Group, 20 User per 1 group, User can be assigned authority for function
	Data Authentication	Watermark
INTERFACE		
Monitors	VGA	1 VGA (800 x 600, 1024 x 768, 1280 x 1024)
	HDMI	480p / 720p / 1080p resolution
	Main Composite	1 BNC, 1 Vp-p, 75 ohm
	Spot Composite	Digital spot (1 BNC, 1 Vp-p, 75 ohm), support multi screen and camera title
	Loop Outputs	16
Audio	Inputs / Output	16CH line in (Built-in 4CH, option : audio extension cable) / 1CH line out
	Compression	ADPCM
	Sampling Rate	16KHz
Alarm	Inputs / Output	Terminal 16 inputs (NO/NC) / Terminal 4 relay outputs (NO/NC), Rating : 30V DC / 2A, 125V AC / 0.5A
	Remote Notification	Notification via e-mail
Connections	Ethernet	1 RJ-45 10/100/1000 Base-T
	Serial Interface	RS-232/RS-485 for PTZ, Samsung system keyboard
	USB	USB 2.0, 3 ports
	eSATA	2 External SATA ports
	Application Support	Mouse, Remote controller
	Protocol Support	Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, Vicon PTZ control via coaxial cable [Samsung CCVC, Pelco-C (Coaxitron)]
GENERAL		
Electrical	Input Voltage / Current	100 ~ 240V AC ±10%, 50/60Hz, Autoranging
	Power Consumption	Max. 60W (With 1x HDD)
Environmental	Operating Temperature / Humidity	+0°C ~ +40°C (+32°F ~ +104°F) / 20% ~ 85% RH
Mechanical	Dimensions (WxHxD)	440.0 x 88.0 x 426.8mm (17.32" x 3.46" x 16.80")
	Weight (With hard disks)	Approx. 7.5Kg (16.53 lb)
	Rack Mount Kit	2ea
Language		Korean, Japanese, Chinese, English, French, German, Spanish, Italian, Russian, Polish, Czech, Turkish, Netherlands, Portuguese, Swedish, Danish, Thailandais, Rumanian, Serbian, Croatian, Hungarian, Greek (22 Language)

SRD-1630D

16CH H.264 Digital Video Recorder



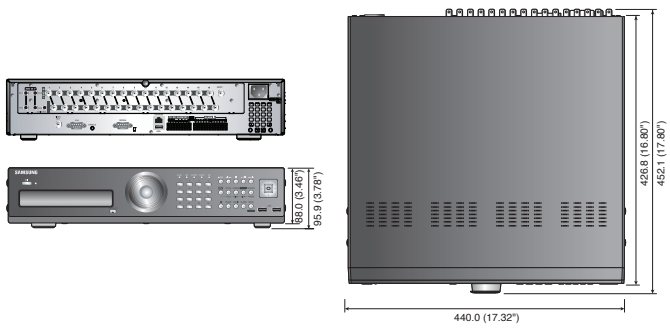
16CH | H.264 | 240fps(N) 200fps(P) | CMS | Smart Phone

Key Features

- 16CH DVR
- Up to 240(NTSC) / 200(PAL)fps recording rate
- Max. 5 internal HDD (HDD x 5)
- DVD-RW
- Support for smart phone

Dimensions

Unit : mm (inch)



Technical Specifications

		SRD-1630D
DISPLAY		
Video	Inputs	16 Composite video 0.5-1 Vp-p, 75 ohm automatic termination
	Resolution	NTSC : 704 x 480 / PAL : 704 x 576
Live	Frame Rate	NTSC : 480fps / PAL : 400fps
	Resolution	NTSC : 704 x 480 / PAL : 704 x 576
	Multi Screen Display	1 / 4 / 6 / 8 / 9 / 13 / 16 / PIP
PERFORMANCE		
Operating System	Embedded	Linux
Recording	Compression	H.264
	Record Rate	NTSC : Up to 60fps@704 x 480 / PAL : Up to 50fps@704 x 576 NTSC : Up to 120fps@704 x 240 / PAL : Up to 100fps@704 x 288 NTSC : Up to 240fps@352 x 240 / PAL : Up to 200fps@352 x 288
	Mode	NTSC : Manual, Schedule (Continuous / Event), Event (Pre / Post), Time lapse (0.9 / 1.9 / 3.8 / 7.5 / 15 / 30fps) PAL : Manual, Schedule (Continuous / Event), Event (Pre / Post), Time lapse (0.8 / 1.6 / 3.1 / 6.2 / 12.5 / 25fps)
	Overwrite Modes	Continuous
	Pre-alarm	Up to 30sec (5, 10, 20, 30sec)
	Post-alarm	Up to 6hour (5,10, 20, 30sec, 1, 3, 5, 10, 20min, 1, 2, 3, 4, 5, 6hour)
Search & Playback	Search Mode	Date/Time, Event, Back up, Pos, Motion (*All search include preview function)
	Playback Function	Fast forward / backward, Slow forward / backward, Step forward / backward
Network	Transmission Speed	CIF 480/400fps
	Bandwidth	Up to 4Mbps, Unlimited (4M) / 2 / 1.5 / 1Mbps / 800 / 600 / 500 / 400 / 300 / 200 / 100 / 50kbps
	Bandwidth Control	Selectable
	Stream	H.264 (4CIF / 2CIF / CIF selectable)
	Max. Remote Users	Search 3 / Live unicast 10 / Live multicast 20
	Protocol Support	TCP/IP, DHCP, PPPoE, SMTP, NTP, HTTP, DDNS, RTP, RTSP
	Monitoring	NET-i viewer, SmartViewer, Webviewer
Smart Phone	Smart Phone	Android, i-Phone
	Protocol Support	RTSP/RTP (UDP), CGI, HTTP
	Transmission Speed	Wi-Fi : CIF Max. 4fps (Single channel) / CIF Max. 4fps (Quad channel) 3G : CIF Max. 4fps (Single channel) / CIF Max. 4fps (Quad channel)
	Max. Remote Users	Live 1
Storage	Internal HDD	Up to 5 SATA HDDs
	DVD Writer (Back up)	Yes
	USB (Back up)	3 USB ports
	File Format (Back up)	AVI, BU (DVR player), EXE (Include player)
Security	Password Protection	1 Admin, 10 Group, 20 User per 1 group, User can be assigned authority for function
	Data Authentication	Watermark
INTERFACE		
Monitors	VGA	1 VGA (800 x 600, 1024 x 768, 1280 x 1024)
	Main Composite	1 BNC, 1 Vp-p, 75 ohm
	Spot Composite	Digital spot (1 BNC, 1 Vp-p, 75 ohm), support multi screen and camera title
	Loop Outputs	16
Audio	Inputs / Output	4CH line in / 1CH line out
	Compression	ADPCM
	Sampling Rate	16KHz
Alarm	Inputs / Output	Terminal 16 inputs (NO/NC) / Terminal 4 relay outputs (NO/NC), Rating : 30V DC / 2A, 125V AC / 0.5A
	Remote Notification	Notification via e-mail
Connections	Ethernet	1 RJ-45 10/100/1000 Base-T
	Serial Interface	RS-232/RS-485 for PTZ, Samsung system keyboard
	USB	USB 2.0, 3 ports
	Application Support	Mouse, Remote controller
	Protocol Support	Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, Vicon
GENERAL		
Electrical	Input Voltage / Current	100 ~ 240V AC ±10%, 50/60Hz, Autoranging
	Power Consumption	Max. 60W (With 1x HDD)
Environmental	Operating Temperature / Humidity	+0°C ~ +40°C (+32°F ~ +104°F) / 20% ~ 85% RH
Mechanical	Dimensions (WxHxD)	440.0 x 88.0 x 426.8mm (17.32" x 3.46" x 16.80")
	Weight (With hard disks)	Approx. 7.5Kg (16.53 lb)
	Rack Mount Kit	2ea
Language		Korean, Japanese, Chinese, English, French, German, Spanish, Italian, Russian, Polish, Czech, Turkish, Netherlands, Portuguese, Swedish, Danish, Thailandais, Rumanian, Serbian, Croatian, Hungarian, Greek (22 Language)

SRD-1610D

16CH H.264 Digital Video Recorder



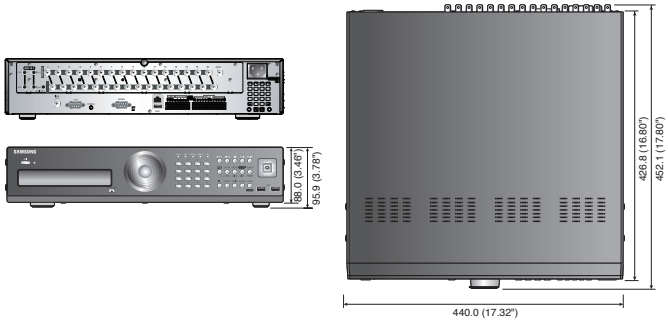


Key Features

- 16CH DVR
- Up to 120(NTSC) / 100(PAL)fps recording rate
- Max. 5 internal HDD (HDD x 5)
- DVD-RW
- Support for smart phone

Dimensions

Unit : mm (inch)



Technical Specifications

		SRD-1610D
DISPLAY		
Video	Inputs	16 Composite video 0.5-1 Vp-p, 75 ohm automatic termination
	Resolution	NTSC : 704 x 480 / PAL : 704 x 576
Live	Frame Rate	NTSC : 480fps / PAL : 400fps
	Resolution	NTSC : 704 x 480 / PAL : 704 x 576
	Multi Screen Display	1 / 4 / 6 / 8 / 9 / 13 / 16 / PIP
PERFORMANCE		
Operating System	Embedded	Linux
Recording	Compression	H.264
	Record Rate	NTSC : Up to 30fps@704 x 480 / PAL : Up to 25fps@704 x 576 NTSC : Up to 60fps@704 x 240 / PAL : Up to 50fps@704 x 288 NTSC : Up to 120fps@352 x 240 / PAL : Up to 100fps@352 x 288
	Mode	NTSC : Manual, Schedule (Continuous / Event), Event (Pre / Post), Time lapse (0.9 / 1.9 / 3.8 / 7.5 / 15 / 30fps) PAL : Manual, Schedule (Continuous / Event), Event (Pre / Post), Time lapse (0.8 / 1.6 / 3.1 / 6.2 / 12.5 / 25fps)
	Overwrite Modes	Continuous
	Pre-alarm	Up to 30sec (5, 10, 20, 30sec)
	Post-alarm	Up to 6hour (5,10, 20, 30sec, 1, 3, 5, 10, 20min, 1, 2, 3, 4, 5, 6hour)
Search & Playback	Search Mode	Date/Time, Event, Back up, Pos, Motion (*All search include preview function)
	Playback Function	Fast forward / backward, Slow forward / backward, Step forward / backward
Network	Transmission Speed	CIF 480/400fps
	Bandwidth	Up to 4Mbps, Unlimited (4M) / 2 / 1.5 / 1Mbps / 800 / 600 / 500 / 400 / 300 / 200 / 100 / 50kbps
	Bandwidth Control	Selectable
	Stream	H.264 (4CIF / 2CIF / CIF selectable)
	Max. Remote Users	Search 3 / Live unicast 10 / Live multicast 20
	Protocol Support	TCP/IP, DHCP, PPPoE, SMTP, NTP, HTTP, DDNS, RTP, RTSP
	Monitoring	NET-i viewer, SmartViewer, Webviewer
Smart Phone	Smart Phone	Android, i-Phone
	Protocol Support	RTSP/RTP (UDP), CGI, HTTP
	Transmission Speed	Wi-Fi : CIF Max. 4fps (Single channel) / CIF Max. 4fps (Quad channel) 3G : CIF Max. 4fps (Single channel) / CIF Max. 4fps (Quad channel)
	Max. Remote Users	Live 1
Storage	Internal HDD	Up to 5 SATA HDDs
	DVD Writer (Back up)	Yes
	USB (Back up)	3 USB ports
	File Format (Back up)	AVI, BU (DVR player), EXE (Include player)
Security	Password Protection	1 Admin, 10 Group, 20 User per 1 group, User can be assigned authority for function
	Data Authentication	Watermark
INTERFACE		
Monitors	VGA	1 VGA (800 x 600, 1024 x 768, 1280 x 1024)
	Main Composite	1 BNC, 1 Vp-p, 75 ohm
	Spot Composite	Digital spot (1 BNC, 1 Vp-p, 75 ohm), support multi screen and camera title
	Loop Outputs	16
Audio	Inputs / Output	4CH line in / 1CH line out
	Compression	ADPCM
	Sampling Rate	16KHz
Alarm	Inputs / Output	Terminal 16 inputs (NO/NC) / Terminal 4 relay outputs (NO/NC), Rating : 30V DC / 2A, 125V AC / 0.5A
	Remote Notification	Notification via e-mail
Connections	Ethernet	1 RJ-45 10/100/1000 Base-T
	Serial Interface	RS-232/RS-485 for PTZ, Samsung system keyboard
	USB	USB 2.0, 3 ports
	Application Support	Mouse, Remote controller
	Protocol Support	Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, Vicon
GENERAL		
Electrical	Input Voltage / Current	100 ~ 240V AC ±10%, 50/60Hz, Autoranging
	Power Consumption	Max. 60W (With 1x HDD)
Environmental	Operating Temperature / Humidity	+0°C ~ +40°C (+32°F ~ +104°F) / 20% ~ 85% RH
Mechanical	Dimensions (WxHxD)	440.0 x 88.0 x 426.8mm (17.32" x 3.46" x 16.80")
	Weight (With hard disks)	Approx. 7.5Kg (16.53 lb)
	Rack Mount Kit	2ea
Language		Korean, Japanese, Chinese, English, French, German, Spanish, Italian, Russian, Polish, Czech, Turkish, Netherlands, Portuguese, Swedish, Danish, Thailandais, Rumanian, Serbian, Croatian, Hungarian, Greek (22 Language)

SRD-870DC

8CH 4CIF H.264 Real-time Digital Video Recorder





Key Features

- 8CH 4CIF real-time DVR
- Up to 240(NTSC) / 200(PAL)fps recording rate
- Max. 5 internal HDD (HDD x 5)
- PTZ control via coaxial cable [Samsung CCVC, Pelco-C (Coaxitron)]
- DVD-RW
- Support for smart phone

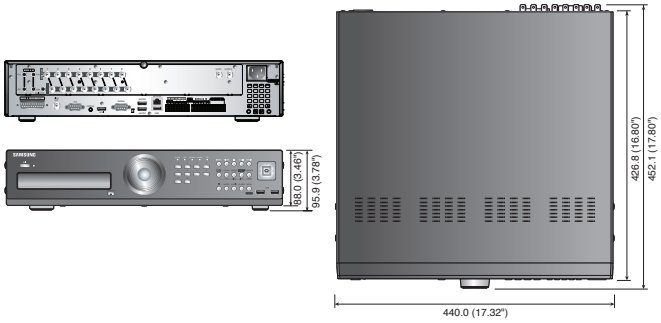
Accessory (Optional)



SRX-AU041I

Dimensions

Unit : mm (inch)



Technical Specifications

		SRD-870DC
DISPLAY		
Video	Inputs	8 Composite video 0.5-1 Vp-p, 75 ohm automatic termination
	Resolution	NTSC : 704 x 480 / PAL : 704 x 576
Live	Frame Rate	NTSC : 240fps / PAL : 200fps
	Resolution	NTSC : 704 x 480 / PAL : 704 x 576
	Multi Screen Display	1 / 4 / 6 / 8 / 9 / 13 / PIP
PERFORMANCE		
Operating System	Embedded	Linux
Recording	Compression	H.264
	Record Rate	NTSC : Up to 240fps@704 x 480 / PAL : Up to 200fps@704 x 576 NTSC : Up to 240fps@704 x 240 / PAL : Up to 200fps@704 x 288 NTSC : Up to 240fps@352 x 240 / PAL : Up to 200fps@352 x 288
	Mode	NTSC : Manual, Schedule (Continuous / Event), Event (Pre / Post), Time lapse (0.9 / 1.9 / 3.8 / 7.5 / 15 / 30fps) PAL : Manual, Schedule (Continuous / Event), Event (Pre / Post), Time lapse (0.8 / 1.6 / 3.1 / 6.2 / 12.5 / 25fps)
	Overwrite Modes	Continuous
	Pre-alarm	Up to 30sec (5, 10, 20, 30sec)
	Post-alarm	Up to 6hour (5,10, 20, 30sec, 1, 3, 5, 10, 20min, 1, 2, 3, 4, 5, 6hour)
Search & Playback	Search Mode	Date/Time, Event, Back up, Pos, Motion (*All search include preview function)
	Playback Function	Fast forward / backward, Slow forward / backward, Step forward / backward
Network	Transmission Speed	CIF 240/200fps
	Bandwidth	Up to 8Mbps, Unlimited (8M) / 2 / 1.5 / 1Mbps / 800 / 600 / 500 / 400 / 300 / 200 / 100 / 50kbps
	Bandwidth Control	Selectable
	Stream	H.264 (4CIF / 2CIF / CIF selectable)
	Max. Remote Users	Search 3 / Live unicast 10 / Live multicast 20
	Protocol Support	TCP/IP, DHCP, PPPoE, SMTP, NTP, HTTP, DDNS, RTP, RTSP
	Monitoring	NET-i viewer, SmartViewer, Webviewer
Smart Phone	Smart Phone	Android, i-Phone
	Protocol Support	RTSP/RTP (UDP), CGI, HTTP
	Transmission Speed	Wi-Fi : CIF Max. 4fps (Single channel) / CIF Max. 4fps (Quad channel) 3G : CIF Max. 4fps (Single channel) / CIF Max. 4fps (Quad channel)
	Max. Remote Users	Live 1
Storage	Internal HDD	Up to 5 SATA HDDs
	External HDD	Up to 2 expansion bay (Up to 4 HDD each)
	DVD Writer (Back up)	Yes
	USB (Back up)	3 USB ports
	File Format (Back up)	AVI, BU (DVR player), EXE (Include player)
Security	Password Protection	1 Admin, 10 Group, 20 User per 1 group, User can be assigned authority for function
	Data Authentication	Watermark
INTERFACE		
Monitors	VGA	1 VGA (800 x 600, 1024 x 768, 1280 x 1024)
	HDMI	480p / 720p / 1080p resolution
	Main Composite	1 BNC, 1 Vp-p, 75 ohm
	Spot Composite	Digital spot (2 BNC, 1 Vp-p, 75 ohm), support multi screen and camera title
	Loop Outputs	8
Audio	Inputs / Output	8CH line in (Built-in 4CH, option : audio extension cable) / 1CH line out
	Compression	ADPCM
	Sampling Rate	16KHz
Alarm	Inputs / Output	Terminal 8 inputs (NO/NC) / Terminal 4 relay outputs (NO/NC), Rating : 30V DC / 2A, 125V AC / 0.5A
	Remote Notification	Notification via e-mail
Connections	Ethernet	1 RJ-45 10/100/1000 Base-T
	Serial Interface	RS-232/RS-485 for PTZ, Samsung system keyboard
	USB	USB 2.0, 3 ports
	eSATA	2 External SATA ports
	Application Support	Mouse, Remote controller
	Protocol Support	Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, Vicon PTZ control via coaxial cable [Samsung CCVC, Pelco-C (Coaxitron)]
GENERAL		
Electrical	Input Voltage / Current	100 ~ 240V AC ±10%, 50/60Hz, Autoranging
	Power Consumption	Max. 60W (With 1x HDD)
Environmental	Operating Temperature / Humidity	+0°C ~ +40°C (+32°F ~ +104°F) / 20% ~ 85% RH
Mechanical	Dimensions (WxHxD)	440.0 x 88.0 x 426.8mm (17.32" x 3.46" x 16.80")
	Weight (With hard disks)	Approx. 7.5Kg (16.53 lb)
	Rack Mount Kit	2ea
Language		Korean, Japanese, Chinese, English, French, German, Spanish, Italian, Russian, Polish, Czech, Turkish, Netherlands, Portuguese, Swedish, Danish, Thailandais, Rumanian, Serbian, Croatian, Hungarian, Greek (22 Language)

SRD-850DC

8CH CIF H.264 Real-time Digital Video Recorder





Key Features

- 8CH CIF real-time DVR
- Up to 240(NTSC) / 200(PAL)fps recording rate
- Max. 5 internal HDD (HDD x 5)
- PTZ control via coaxial cable [Samsung CCVC, Pelco-C (Coaxitron)]
- DVD-RW
- Support for smart phone

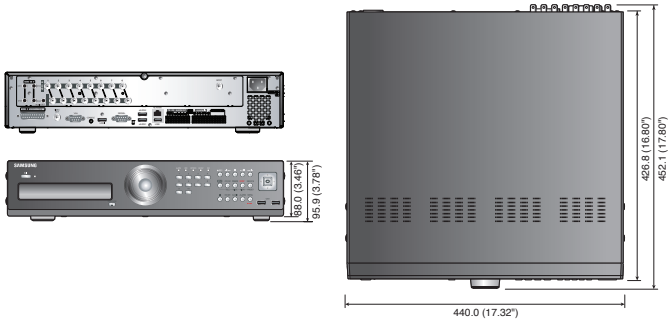
Accessory (Optional)



SRX-AU041I

Dimensions

Unit : mm (inch)



Technical Specifications

		SRD-850DC
DISPLAY		
Video	Inputs	8 Composite video 0.5-1 Vp-p, 75 ohm automatic termination
	Resolution	NTSC : 704 x 480 / PAL : 704 x 576
Live	Frame Rate	NTSC : 240fps / PAL : 200fps
	Resolution	NTSC : 704 x 480 / PAL : 704 x 576
	Multi Screen Display	1 / 4 / 6 / 8 / 9 / 13 / PIP
PERFORMANCE		
Operating System	Embedded	Linux
Recording	Compression	H.264
	Record Rate	NTSC : Up to 60fps@704 x 480 / PAL : Up to 50fps@704 x 576 NTSC : Up to 120fps@704 x 240 / PAL : Up to 100fps@704 x 288 NTSC : Up to 240fps@352 x 240 / PAL : Up to 200fps@352 x 288
	Mode	NTSC : Manual, Schedule (Continuous / Event), Event (Pre / Post), Time lapse (0.9 / 1.9 / 3.8 / 7.5 / 15 / 30fps) PAL : Manual, Schedule (Continuous / Event), Event (Pre / Post), Time lapse (0.8 / 1.6 / 3.1 / 6.2 / 12.5 / 25fps)
	Overwrite Modes	Continuous
	Pre-alarm	Up to 30sec (5, 10, 20, 30sec)
	Post-alarm	Up to 6hour (5,10, 20, 30sec, 1, 3, 5, 10, 20min, 1, 2, 3, 4, 5, 6hour)
Search & Playback	Search Mode	Date/Time, Event, Back up, Pos, Motion (*All search include preview function)
	Playback Function	Fast forward / backward, Slow forward / backward, Step forward / backward
Network	Transmission Speed	CIF 240/200fps
	Bandwidth	Up to 8Mbps, Unlimited (8M) / 2 / 1.5 / 1Mbps / 800 / 600 / 500 / 400 / 300 / 200 / 100 / 50kbps
	Bandwidth Control	Selectable
	Stream	H.264 (4CIF / 2CIF / CIF selectable)
	Max. Remote Users	Search 3 / Live unicast 10 / Live multicast 20
	Protocol Support	TCP/IP, DHCP, PPPoE, SMTP, NTP, HTTP, DDNS, RTP, RTSP
	Monitoring	NET-i viewer, SmartViewer, Webviewer
Smart Phone	Smart Phone	Android, i-Phone
	Protocol Support	RTSP/RTP (UDP), CGI, HTTP
	Transmission Speed	Wi-Fi : CIF Max. 4fps (Single channel) / CIF Max. 4fps (Quad channel) 3G : CIF Max. 4fps (Single channel) / CIF Max. 4fps (Quad channel)
	Max. Remote Users	Live 1
Storage	Internal HDD	Up to 5 SATA HDDs
	External HDD	Up to 2 expansion bay (Up to 4 HDD each)
	DVD Writer (Back up)	Yes
	USB (Back up)	3 USB ports
	File Format (Back up)	AVI, BU (DVR player), EXE (Include player)
Security	Password Protection	1 Admin, 10 Group, 20 User per 1 group, User can be assigned authority for function
	Data Authentication	Watermark
INTERFACE		
Monitors	VGA	1 VGA (800 x 600, 1024 x 768, 1280 x 1024)
	HDMI	480p / 720p / 1080p resolution
	Main Composite	1 BNC, 1 Vp-p, 75 ohm
	Spot Composite	Digital spot (1 BNC, 1 Vp-p, 75 ohm), support multi screen and camera title
	Loop Outputs	8
Audio	Inputs / Output	8CH line in (Built-in 4CH, option : audio extension cable) / 1CH line out
	Compression	ADPCM
	Sampling Rate	16KHz
Alarm	Inputs / Output	Terminal 8 inputs (NO/NC) / Terminal 4 relay outputs (NO/NC), Rating : 30V DC / 2A, 125V AC / 0.5A
	Remote Notification	Notification via e-mail
Connections	Ethernet	1 RJ-45 10/100/1000 Base-T
	Serial Interface	RS-232/RS-485 for PTZ, Samsung system keyboard
	USB	USB 2.0, 3 ports
	eSATA	2 External SATA ports
	Application Support	Mouse, Remote controller
	Protocol Support	Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, Vicon PTZ control via coaxial cable [Samsung CCVC, Pelco-C (Coaxitron)]
GENERAL		
Electrical	Input Voltage / Current	100 ~ 240V AC ±10%, 50/60Hz, Autoranging
	Power Consumption	Max. 60W (With 1x HDD)
Environmental	Operating Temperature / Humidity	+0°C ~ +40°C (+32°F ~ +104°F) / 20% ~ 85% RH
Mechanical	Dimensions (WxHxD)	440.0 x 88.0 x 426.8mm (17.32" x 3.46" x 16.80")
	Weight (With hard disks)	Approx. 7.5Kg (16.53 lb)
	Rack Mount Kit	2ea
Language		Korean, Japanese, Chinese, English, French, German, Spanish, Italian, Russian, Polish, Czech, Turkish, Netherlands, Portuguese, Swedish, Danish, Thailandais, Rumanian, Serbian, Croatian, Hungarian, Greek (22 Language)

SRD-830D

8CH H.264 Digital Video Recorder



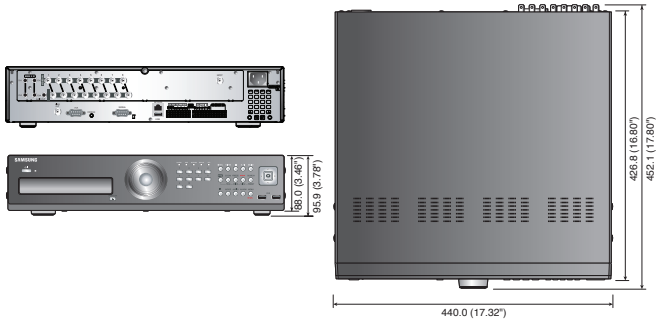


Key Features

- 8CH DVR
- Up to 120(NTSC) / 100(PAL)fps recording rate
- Max. 5 internal HDD (HDD x 5)
- DVD-RW
- Support for smart phone

Dimensions

Unit : mm (inch)



Technical Specifications

		SRD-830D
DISPLAY		
Video	Inputs	8 Composite video 0.5-1 Vp-p, 75 ohm automatic termination
	Resolution	NTSC : 704 x 480 / PAL : 704 x 576
Live	Frame Rate	NTSC : 240fps / PAL : 200fps
	Resolution	NTSC : 704 x 480 / PAL : 704 x 576
	Multi Screen Display	1 / 4 / 6 / 8 / 9 / 13 / PIP
PERFORMANCE		
Operating System	Embedded	Linux
Recording	Compression	H.264
	Record Rate	NTSC : Up to 30fps@704 x 480 / PAL : Up to 25fps@704 x 576 NTSC : Up to 60fps@704 x 240 / PAL : Up to 50fps@704 x 288 NTSC : Up to 120fps@352 x 240 / PAL : Up to 100fps@352 x 288
	Mode	NTSC : Manual, Schedule (Continuous / Event), Event (Pre / Post), Time lapse (0.9 / 1.9 / 3.8 / 7.5 / 15 / 30fps) PAL : Manual, Schedule (Continuous / Event), Event (Pre / Post), Time lapse (0.8 / 1.6 / 3.1 / 6.2 / 12.5 / 25fps)
	Overwrite Modes	Continuous
	Pre-alarm	Up to 30sec (5, 10, 20, 30sec)
	Post-alarm	Up to 6hour (5,10, 20, 30sec, 1, 3, 5, 10, 20min, 1, 2, 3, 4, 5, 6hour)
Search & Playback	Search Mode	Date/Time, Event, Back up, Pos, Motion (*All search include preview function)
	Playback Function	Fast forward / backward, Slow forward / backward, Step forward / backward
Network	Transmission Speed	CIF 240/200fps
	Bandwidth	Up to 4Mbps, Unlimited (4M) / 2 / 1.5 / 1Mbps / 800 / 600 / 500 / 400 / 300 / 200 / 100 / 50kbps
	Bandwidth Control	Selectable
	Stream	H.264 (4CIF / 2CIF / CIF selectable)
	Max. Remote Users	Search 3 / Live unicast 10 / Live multicast 20
	Protocol Support	TCP/IP, DHCP, PPPoE, SMTP, NTP, HTTP, DDNS, RTP, RTSP
	Monitoring	NET-i viewer, SmartViewer, Webviewer
Smart Phone	Smart Phone	Android, i-Phone
	Protocol Support	RTSP/RTP (UDP), CGI, HTTP
	Transmission Speed	Wi-Fi : CIF Max. 4fps (Single channel) / CIF Max. 4fps (Quad channel) 3G : CIF Max. 4fps (Single channel) / CIF Max. 4fps (Quad channel)
	Max. Remote Users	Live 1
Storage	Internal HDD	Up to 5 SATA HDDs
	DVD Writer (Back up)	Yes
	USB (Back up)	3 USB ports
	File Format (Back up)	AVI, BU (DVR player), EXE (Include player)
Security	Password Protection	1 Admin, 10 Group, 20 User per 1 group, User can be assigned authority for function
	Data Authentication	Watermark
INTERFACE		
Monitors	VGA	1 VGA (800 x 600, 1024 x 768, 1280 x 1024)
	Main Composite	1 BNC, 1 Vp-p, 75 ohm
	Spot Composite	Digital spot (1 BNC, 1 Vp-p, 75 ohm), support multi screen and camera title
	Loop Outputs	8
Audio	Inputs / Output	4CH line in / 1CH line out
	Compression	ADPCM
	Sampling Rate	16KHz
Alarm	Inputs / Output	Terminal 8 inputs (NO/NC) / Terminal 4 relay outputs (NO/NC), Rating : 30V DC / 2A, 125V AC / 0.5A
	Remote Notification	Notification via e-mail
Connections	Ethernet	1 RJ-45 10/100/1000 Base-T
	Serial Interface	RS-232/RS-485 for PTZ, Samsung system keyboard
	USB	USB 2.0, 3 ports
	Application Support	Mouse, Remote controller
	Protocol Support	Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, Vicon
GENERAL		
Electrical	Input Voltage / Current	100 ~ 240V AC ±10%, 50/60Hz, Autoranging
	Power Consumption	Max. 60W (With 1x HDD)
Environmental	Operating Temperature / Humidity	+0°C ~ +40°C (+32°F ~ +104°F) / 20% ~ 85% RH
Mechanical	Dimensions (WxHxD)	440.0 x 88.0 x 426.8mm (17.32" x 3.46" x 16.80")
	Weight (With hard disks)	Approx. 7.5Kg (16.53 lb)
	Rack Mount Kit	2ea
Language		Korean, Japanese, Chinese, English, French, German, Spanish, Italian, Russian, Polish, Czech, Turkish, Netherlands, Portuguese, Swedish, Danish, Thailandais, Rumanian, Serbian, Croatian, Hungarian, Greek (22 Language)

SRD-470D

4CH 4CIF H.264 Real-time Digital Video Recorder



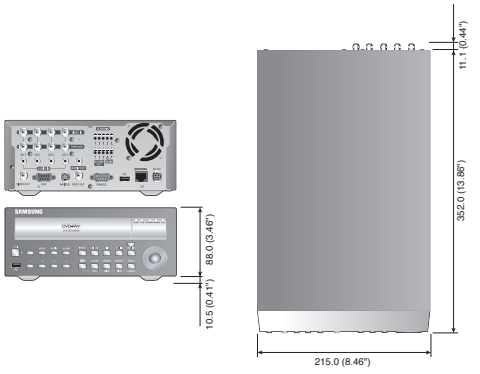


Key Features

- 4CH 4CIF real-time DVR
- 4CIF resolution real-time recording capability
- SATA HDD support (Internal Max. HDD x 1)
- DVD-RW
- Support for smart phone

Dimensions

Unit : mm (inch)



Technical Specifications

		SRD-470D
DISPLAY		
Video	Inputs	4 Composite video 0.5-1 Vpp, 75 ohm automatic termination
	Resolution	NTSC : 704 x 480 / PAL : 704 x 576
Live	Frame Rate	NTSC : 120fps / PAL : 100fps
	Resolution	NTSC : 704 x 480 / PAL : 704 x 576
	Multi Screen Display	1 / 4 / PIP
PERFORMANCE		
Operating System	Embedded	Linux
Recording	Compression	H.264
	Record Rate	NTSC : Up to 120fps@704 x 480 / PAL : Up to 100fps@704 x 576 NTSC : Up to 120fps@704 x 240 / PAL : Up to 100fps@704 x 288 NTSC : Up to 120fps@352 x 240 / PAL : Up to 100fps@352 x 288
	Mode	NTSC : Manual, Schedule (Continuous / Event), Event (Pre / Post), Time lapse (0.9 / 1.9 / 3.8 / 7.5 / 15 / 30fps) PAL : Manual, Schedule (Continuous / Event), Event (Pre / Post), Time lapse (0.8 / 1.6 / 3.1 / 6.2 / 12.5 / 25fps)
	Overwrite Modes	Continuous
	Pre-alarm	Up to 30sec (5, 10, 20, 30sec)
	Post-alarm	Up to 6hour (5,10, 20, 30sec, 1, 3, 5, 10, 20min, 1, 2, 3, 4, 5, 6hour)
Search & Playback	Search Mode	Date/Time, Event, Back up, Pos, Motion (*All search include preview function)
	Playback Function	Fast forward / backward, Slow forward / backward, Step forward / backward
Network	Transmission Speed	CIF 120/100fps
	Bandwidth	Up to 6Mbps, Unlimited (6M) / 2 / 1.5 / 1Mbps / 800 / 600 / 500 / 400 / 300 / 200 / 100 / 50kbps
	Bandwidth Control	Selectable
	Stream	H.264 (4CIF / 2CIF / CIF selectable)
	Max. Remote Users	Search 3 / Live unicast 10 / Live multicast 20
	Protocol Support	TCP/IP, DHCP, PPPoE, SMTP, NTP, HTTP, DDNS, RTP, RTSP
	Monitoring	NET-i viewer, SmartViewer, Webviewer
Smart Phone	Smart Phone	Android, i-Phone
	Protocol Support	RTSP/RTP (UDP), CGI, HTTP
	Transmission Speed	Wi-Fi : CIF Max. 4fps (Single channel) / CIF Max. 4fps (Quad channel) 3G : CIF Max. 4fps (Single channel) / CIF Max. 4fps (Quad channel)
	Max. Remote Users	Live 1
Storage	Internal HDD	Up to 1 SATA HDDs
	DVD Writer (Back up)	Yes
	USB (Back up)	3 USB ports
	File Format (Back up)	AVI, BU (DVR player), EXE (Include player)
Security	Password Protection	1 Admin, 10 Group, 20 User per 1 group, User can be assigned authority for function
	Data Authentication	Watermark
INTERFACE		
Monitors	VGA	1 VGA (800 x 600, 1024 x 768, 1280 x 1024)
	Main Composite	1 BNC, 1.0 Vp-p, 75 ohm
	Spot Composite	Digital spot (1 BNC, 1 Vp-p, 75 ohm), support multi screen and camera title
	Loop Outputs	4
Audio	Inputs / Output	4CH line in / 1CH line out
	Compression	ADPCM
	Sampling Rate	16KHz
Alarm	Inputs / Output	Terminal 4 inputs (NO/NC) / Terminal 4 relay outputs (NO/NC), Rating : 30V DC / 2A, 125V AC / 0.5A
	Remote Notification	Notification via e-mail
Connections	Ethernet	1 RJ-45 10/100/1000 Base-T
	Serial Interface	RS-232/RS-485 for PTZ, Samsung system keyboard
	USB	USB 2.0, 2 ports
	Application Support	Mouse, Remote controller
	Protocol Support	Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, Vicon
GENERAL		
Electrical	Input Voltage / Current	100 ~ 240V AC ±10%, 50/60Hz, 55watt
	Power Consumption	Max. 36W (With 1x HDD)
Environmental	Operating Temperature / Humidity	+0°C ~ +40°C (+32°F ~ +104°F) / 20% ~ 85% RH
Mechanical	Dimensions (WxHxD)	215.0 x 88.0 x 352.0mm (8.46" x 3.46" x 13.86")
	Weight (With hard disks)	Approx. 3Kg (6.61 lb)
	Rack Mount Kit	2ea
Language		Korean, Japanese, Chinese, English, French, German, Spanish, Italian, Russian, Polish, Czech, Turkish, Netherlands, Portuguese, Swedish, Danish, Thailandais, Rumanian, Serbian, Croatian, Hungarian, Greek (22 Language)

SRD-450

4CH CIF H.264 Digital Video Recorder





Key Features

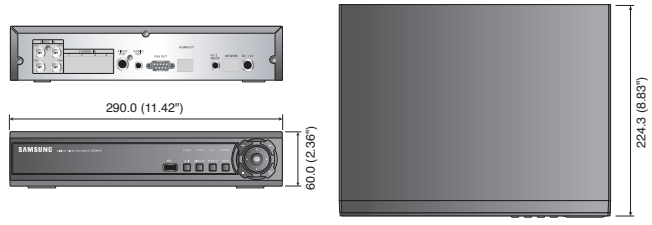
- 4CH CIF real-time DVR
- CIF resolution real-time recording capability (4CIF recording available)
- SATA HDD support (Internal Max. HDD x 1)
- Smart phone support

Technical Specifications

		SRD-450
DISPLAY		
Video	Inputs	4 Composite video 0.5-1 Vpp, 75 ohm
	Resolution	NTSC : 704 x 480 / PAL : 704 x 576
Live	Frame Rate	NTSC : 120fps / PAL : 100fps
	Resolution	NTSC : 704 x 480 / PAL : 704 x 576
	Multi Screen Display	1 / 4 / SEQUENCE
PERFORMANCE		
Operating System	Embedded	Linux
Recording	Compression	H.264
	Record Rate	NTSC : Up to 30fps@704 x 480 / PAL : Up to 25fps@704 x 576 NTSC : Up to 60fps@704 x 240 / PAL : Up to 50fps@704 x 288 NTSC : Up to 120fps@352 x 240 / PAL : Up to 100fps@352 x 288
	Mode	NTSC : Manual, Schedule (Continuous / Event), Event (Pre / Post), Time lapse (1 / 2 / 3 / 7 / 15 / 30fps) PAL : Manual, Schedule (Continuous / Event), Event (Pre / Post), Time lapse (1 / 2 / 3 / 7 / 13 / 25fps)
	Overwrite Modes	Continuous
	Pre-alarm	Up to 5sec (1, 2, 3, 4, 5sec)
	Post-alarm	Up to 180sec (5, 10, 15, 20, 30, 60, 120, 180sec)
Search & Playback	Search Mode	Date/Time, Event
	Playback Function	Fast forward / Backward (2x, 4x, 8x,16x, 32x, 64x), Step forward / Backward (2x, 4x, 8x,16x, 32x, 64x)
Network	Transmission Speed	CIF 120/100fps
	Bandwidth	Up to 8Mbps, Unlimited (8M) / 2 / 1.5 / 1Mbps / 800 / 600 / 500 / 400 / 300 / 200 / 100 / 50kbps
	Bandwidth Control	Selectable
	Stream	H.264 (4CIF / 2CIF / CIF selectable)
	Max. Remote Users	Up to 4 (Live 4 or Search 4)
	Protocol Support	TCP/IP, DHCP, DDNS, NTP, HTTP, RTSP
	Monitoring	Webviewer, CMS (SmartViewer, NET-i)
Smart Phone	Smart Phone	i-Phone
	Protocol Support	RTSP, HTTP
	Transmission Speed	Wi-Fi : CIF Max. 14fps (Single channel) / CIF Max. 3.5fps (Quad channel) 3G : CIF Max. 14fps (Single channel) / CIF Max. 3.6fps (Quad channel)
	Max. Remote Users	Live 1
Storage	Internal HDD	Up to 1 SATA HDD
	USB (Back up)	USB stick memory only (Up to 20GB)
	File Format (Back up)	AVI
Security	Password Protection	8 User (1 Admin, 7 Manager and user, Only English with special character)
	Data Authentication	Watermark
INTERFACE		
Monitors	VGA	1 VGA (1024 x 768)
	Main Composite	1 BNC, 1.0 Vp-p, 75 ohm
Audio	Inputs / Output	4CH line in / 1CH line out
	Compression	ADPCM
	Sampling Rate	64KHz
Alarm	Inputs / Output	4CH, Pulled up to 5V via 10K Ohm / 1CH, Relay
	Remote Notification	Notification via e-mail (With 1CH snapshot JPEG image attached)
Connections	Ethernet	1 RJ-45 10/100 Base-T
	USB	USB 2.0, 2 ports
	Application Support	Mouse (Not included), Remote controller (Include) Upgrade - USB stick memory
GENERAL		
Electrical	Input Voltage / Current	12V DC adaptor, 3.3A,100 ~ 240V AC, 50/60Hz
	Power Consumption	Max. 18.2W
Environmental	Operating Temperature / Humidity	+0°C ~ +40°C (+32°F ~ +104°F) / 20% ~ 85% RH
Mechanical	Dimensions (WxHxD)	290.0 x 60.0 x 224.3mm (11.42" x 2.36" x 8.83")
	Weight (With hard disks)	Approx. 1.84Kg (4.06 lb)
Language		NTSC : Korean, Japanese, English, French, Spanish PAL : English, French, Spanish, German, Italian, Turkish, Russian

Dimensions

Unit : mm (inch)



SVS-5R

RAID 5 HDD Extension Unit



SVS-5R

Technical Specifications

	SVS-5R
Transmission Speed	Up to 3.0Gbps (SATA II)
Maximum Capacity	Up to 4TB
Internal HDD	Up to 4 SATA HDDs
RAID	RAID 0, 1, 0+1, 5
eSATA	1 External SATA ports for DVR connection
USB	USB 2.0, RAID configuration only
Operating Temperature	+5°C ~ +45°C (+41°F ~ +113°F)
Operating Humidity	20% ~ 70% RH
Input Voltage	115 ~ 230V AC ±10%, 50/60Hz, Autoranging
Dimensions (WxHxD)	482.0 x 44.0 x 433.0mm (19" x 1.7" x 17")
Weight	Approx. 6.4Kg (14.1 lb)
Rack Mount Kit	For mounting one unit in an EIA 19-inch rack
Certifications	FCC (Class A), UL/cUL listed, CE (Class A)

Key Features

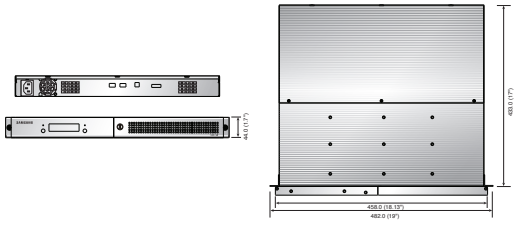
SVS-5R

- 1U 19-inch rack case
- Data transmission speed : Up to 3.0Gbps (SATA II)
- Available SATA HDD : Up to 4 (4TB)

Dimensions

Unit : mm (inch)

SVS-5R





MONITORS

Samsung Total Security Solution

Monitor Selection

	TFT-LCD Monitor		
	SMT-4023	SMT-3223	SMT-2231
			
Screen Size	40"	32"	22"
Resolution (pixels HxV)	1920 x 1080	1366 x 768	1920 x 1080
Composite Video Resolution	600 TV lines	600TV lines	NTSC : 600TV lines / PAL : 620TV lines
Video In/Out	1	1	2 / 2
S-Video In/Out	N/A	N/A	N/A
RGB In	1	1	1
DVI / HDMI	1 / 2	1 / 2	0 / 1
Audio In (Stereo)	2	2	2
Contrast Ratio	3000 : 1	3500 : 1	1000 : 1
Response Time	8ms (G to G)	8ms (G to G)	5ms
Brightness	450cd/m^2	450cd/m^2	Above 300cd/m^2
Tempered Glass Screen	N/A	N/A	Yes
Picture In Picture	N/A	N/A	Yes
Built-in Speakers	Yes	Yes	Yes
Desktop Stand	Option	Option	Yes
Sync Format	NTSC : 3.5 / PAL : 4.43	NTSC : 3.5 / PAL : 4.43	NTSC : 3.5 / PAL : 4.43
Power	100 ~ 240V AC	100 ~ 240V AC	100 ~ 240V AC

	TFT-LCD Monitor		
	SMT-1923	SMT-1922	SMT-1912
			
Screen Size	19"	19"	19"
Resolution (pixels HxV)	1280 x 1024	1280 x 1024	1280 x 1024
Composite Video Resolution	NTSC : 600TV lines / PAL : 620TV lines	NTSC : 600TV lines / PAL : 620TV lines	N/A
Video In/Out	2 / 2	2 / 2	N/A
S-Video In/Out	1 / 1	1 / 1	N/A
RGB In	1	1	1
Audio In (Stereo)	N/A	N/A	N/A
Contrast Ratio	2	1000 : 1	1000 : 1 (DC 5000 : 1)
Response Time	1000 : 1	5ms	5ms
Brightness	5ms	Above 250cd/m^2	Above 250cd/m^2
Tempered Glass Screen	Above 250cd/m^2	Yes	Yes
Picture In Picture	Yes	Yes	N/A
Built-in Speakers	Yes	Yes	N/A
Desktop Stand	Yes	Yes	Yes
Sync Format	NTSC : 3.5 / PAL : 4.43	NTSC : 3.5 / PAL : 4.43	NTSC : 3.5 / PAL : 4.43
Power	12V DC external	100 ~ 240V AC	100 ~ 240V AC

Monitor Selection

	SMT-1712	SMT-1723	SMT-1722
			
Screen Size	17"	17"	17"
Resolution (pixels HxV)	1280 x 1024	1280 x 1024	1280 x 1024
Composite Video Resolution	N/A	NTSC : 600TV lines / PAL : 620TV lines	NTSC : 600TV lines / PAL : 620TV lines
Video In/Out	N/A	2 / 2	2 / 2
S-Video In/Out	N/A	1 / 1	1 / 1
RGB In	1	1	1
Audio In (Stereo)	N/A	2	2
Contrast Ratio	1000 : 1 (DC 5000 : 1)	1000 : 1	1000 : 1
Response Time	5ms	5ms	5ms
Brightness	Above 250cd/m^2	Above 250cd/m^2	Above 250cd/m^2
Tempered Glass Screen	Yes	Yes	Yes
Picture In Picture	N/A	Yes	Yes
Built-in Speakers	N/A	Yes	Yes
Desktop Stand	Yes	Yes	Yes
Sync Format	NTSC : 3.5 / PAL : 4.43	NTSC : 3.5 / PAL : 4.43	NTSC : 3.5 / PAL : 4.43
Power	100 ~ 240V AC	12V DC external	100 ~ 240V AC

Monitor Terms & Features

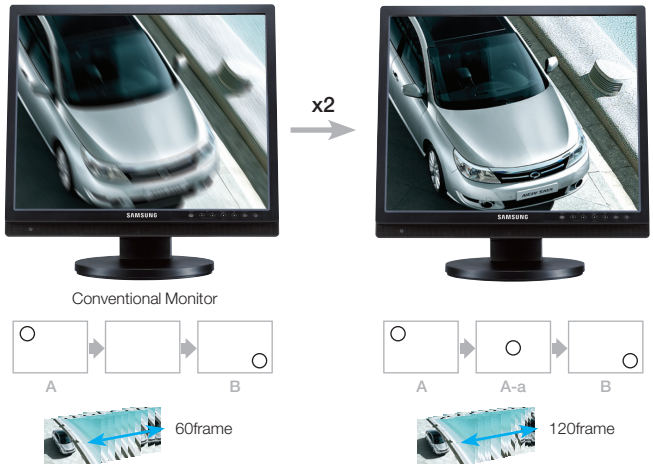
DNIe (Digital Natural Image engine)

DNIe is Samsungs proprietary technology embedded in premium LCD Monitors to enhance picture quality for the best performance. By utilizing DNIe technology, monitors provide enhanced image reproduction quality with optimized color, enhanced contrast and higher resolution. It delivers rich color and crystal clear imaged for more comfortable reading and for reducing eye fatigue.



120Hz Motion Technology

With twice the amount of processing power, 120Hz Motion Technology allows you to monitor clear and vivid images that are twice as fast as 60Hz, and two times faster than conventional TVs.



Tempered Glass Screen

Monitors with tempered glass screen design protect the screen from dirt, repetitive touching or scratching.The screen can be easily cleaned with a common cleaning solution such as water or alcohol.



PIP (Picture in Picture), PBP (Picture by Picture)

The PIP, PBP functions allow a security manager to use a PC and view a CCTV camera at the same time. It could also allow the manager to always have a video of an important camera in the corner at all times.



HAS (Height Adjustable Stand)

Samsung monitors with the HAS feature can be adjusted to the users' comfort level. Maximize monitor can be adjusted to your comfort level. Maximize your efficiency with the convenient height adjustable stand.



SMT-4023

40" TFT-LCD Monitor



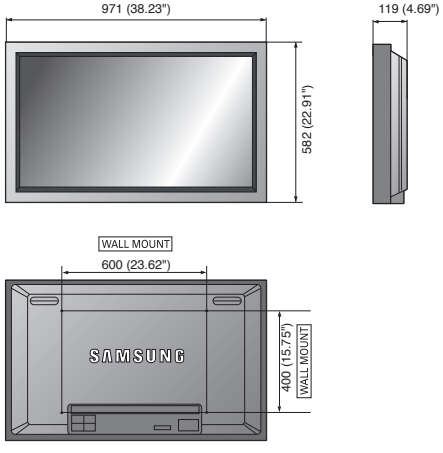
40" | 3000:1 High Contrast Ratio | 1920x1080 Resolution | 8ms Response Time | Built-in Speakers

Key Features

- Supports up to 1920 x 1080 resolution
- High contrast ratio 3000 : 1
- Fast response time 8ms
- 120Hz motion technology

Dimensions

Unit : mm (inch)

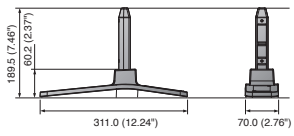


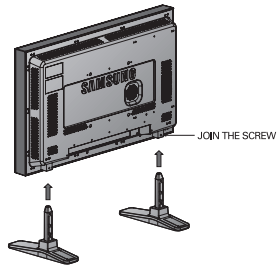
Technical Specifications

		SMT-4023
DISPLAY		
Screen Size		40"
Max. Resolution		1,920 x 1,080
Brightness		450cd/m²
Contrast Ratio		3,000 : 1
Aspect Ratio		16 : 9
Viewing Angle (H/V)		178° / 178°
Display Color		16.7million
Response Time		8ms (G to G)
Video System		NTSC / PAL
Panel Life		50,000hours
Filter Type		3D combfilter
INTERFACE		
Video	Connector	CVBS, HDMI 1, HDMI 2, Component (D-sub 15pin)
RGB / DVI	Connector	Analog D-sub, DVI-D, Display port
	Input Signal	0.7 Vp-p ±5%
	Available Format	640 x 350@70Hz 720 x 400@70Hz 640 x 480@60Hz/72Hz/75Hz (VGA) 800 x 600@56Hz/60Hz/72Hz/75Hz (SVGA) 1,024 x 768@60Hz/70Hz/75Hz (XGA) 1,152 x 864@75Hz 1,152 x 870@75Hz 1,280 x 960@60Hz 1,280 x 1,024@60Hz/75Hz (SXGA) 1,360 x 768@60Hz 1,600 x 1,200@60Hz 1,920 x 1,080@60Hz
HDMI	Connector	HDMI 1, HDMI 2
	Available Format	640 x 480p@60Hz, 720 x 480i@60Hz, 720 x 480p@60Hz 720 x 576i@50Hz, 720 x 576p@50Hz, 1,280 x 720p@50Hz/60Hz 1,920 x 1,080i@50Hz/60Hz, 1,920 x 1,080p@50Hz/60Hz
Audio	Connector	RCA (L/R), Stereo mini jack
	Output Signal	Loop-through line level (PC only), Speakers : 2 x 10W
Application Support		Remote controller
ON SCREEN DISPLAY		
Functions		VESA™ DPM compatible
Language		English, Spanish, French, German, Italian, Portuguese, Russian, Swedish, Turkey, Taiwanese, Chinese, Japanese, Korean
GENERAL		
Electrical	Input Voltage	100 ~ 240V AC (50/60Hz)
	Power Consumption	Type 235W
Environmental	Operating Temperature	0 ~ +40°C (+32°F ~ +104°F)
	Operating Humidity	10% ~ 80% (Non-condensing)
Mechanical	Dimensions with Stand (WxHxD)	971.0 x 643.0 x 311.0mm (38.2" x 25.3" x 12.2")
	Dimensions without Stand (WxHxD)	971.0 x 582.0 x 119.0mm (38.2" x 22.9" x 4.7")
	Weight	24.5Kg (54.0 lb)
	Cabinet Color	Black
	Rack Mounts	Optional
	VESA Mounts Interface	400 x 600mm
Accessory		SBM-400ST

Optional Accessory

Foot Stand SBM-400ST





SMT-3223

32" TFT-LCD Monitor



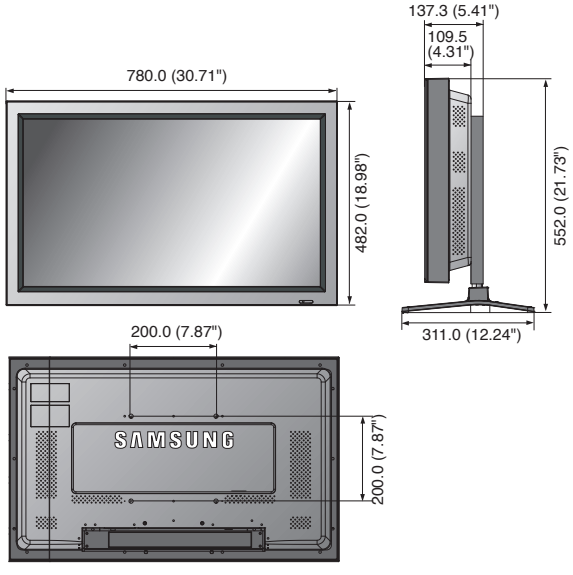
32" | 3500:1 High Contrast Ratio | 1366x768 Resolution | 8ms Response Time | Built-in Speakers

Key Features

- Supports up to 1366 x 768 resolution
- High contrast ratio 3500 : 1
- Fast response time 8ms
- 120Hz motion technology

Dimensions

Unit : mm (inch)

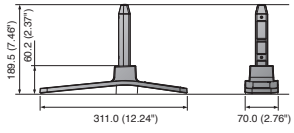


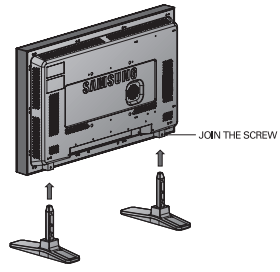
Technical Specifications

		SMT-3223
DISPLAY		
Screen Size		32"
Max. Resolution		1,366 x 768
Brightness		450cd/m²
Contrast Ratio		3,500 : 1
Aspect Ratio		16 : 9
Viewing Angle (H/V)		178° / 178°
Display Color		16.7million
Response Time		8ms (G to G)
Video System		NTSC / PAL
Panel Life		50,000hours
Filter Type		3D combfilter
INTERFACE		
Video	Connector	CVBS, HDMI 1, HDMI 2, Component (D-sub 15pin)
RGB / DVI	Connector	Analog D-sub, DVI-D, Display port
	Input Signal	0.7 Vp-p ±5%
	Available Format	640 x 350@70Hz 720 x 400@70Hz 640 x 480@60Hz/72Hz/75Hz (VGA) 800 x 600@56Hz/60Hz/72Hz/75Hz (SVGA) 1,024 x 768@60Hz/70Hz/75Hz (XGA) 1,152 x 864@75Hz 1,152 x 870@75Hz 1,280 x 960@60Hz 1,280 x 1,024@60Hz/75Hz (SXGA) 1,360 x 768@60Hz 1,366 x 768@60Hz
HDMI	Connector	HDMI 1, HDMI 2
	Available Format	640 x 480p@60Hz, 720 x 480i@60Hz, 720 x 480p@60Hz 720 x 576i@50Hz, 720 x 576p@50Hz, 1,280 x 720p@50Hz/60Hz 1,920 x 1,080i@50Hz/60Hz, 1,920 x 1,080p@50Hz/60Hz
Audio	Connector	RCA (L/R), Stereo mini jack
	Output Signal	Loop-through line level (PC only), Speakers : 2 x 5W
Application Support		Remote controller
ON SCREEN DISPLAY		
Functions		VESA™ DPM compatible
Language		English, Spanish, French, German, Italian, Portuguese, Russian, Swedish, Turkey, Taiwanese, Chinese, Japanese, Korean
GENERAL		
Electrical	Input Voltage	100 ~ 240V AC (50/60Hz)
	Power Consumption	Type 150W
Environmental	Operating Temperature	0 ~ +40°C (+32°F ~ +104°F)
	Operating Humidity	10% ~ 80% (Non-condensing)
Mechanical	Dimensions with Stand (WxHxD)	780.0 x 552.0 x 311.0mm (30.71" x 21.73" x 12.24")
	Dimensions without Stand (WxHxD)	780.0 x 482.0 x 109.5mm (30.71" x 18.98" x 4.31")
	Weight	13.7Kg (30.2 lb)
	Cabinet Color	Black
	Rack Mounts	Optional
	VESA Mounts Interface	200 x 200mm
Accessory		SBM-400ST

Optional Accessory

Foot Stand SBM-400ST





SMT-2231

22" Wide Full-HD TFT-LCD Monitor



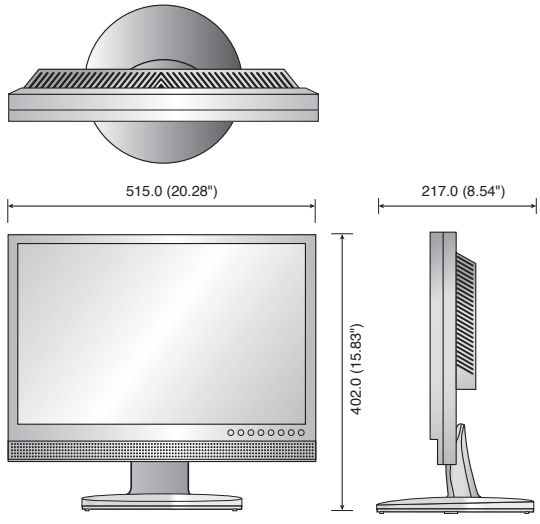


Key Features

- Supports up to 1920 x 1080 resolution
- High contrast ratio 1000 : 1
- Fast response time 5ms
- 120Hz motion technology

Dimensions

Unit : mm (inch)



Technical Specifications

		SMT-2231
DISPLAY		
Screen Size		22"
Max. Resolution		1,920 x 1,080
Brightness		300cd/m^2
Contrast Ratio		1,000 : 1
Aspect Ratio		16 : 9
Viewing Angle (H/V)		170° / 160°
Display Color		16.7million
Response Time		5ms
Video System		NTSC / PAL
Panel Life		50,000hours
Filter Type		3D combfilter
INTERFACE		
Video	Connector	BNC types (2 in / 2 out)
RGB / DVI	Connector	1 Analog RGB 15-pin D-sub
	Input Signal	0.7 Vp-p ±5%
	Available Format	720 x 400@70Hz 640 x 480@60Hz/72Hz/75Hz (VGA) 800 x 600@56Hz/60Hz/72Hz/75Hz (SVGA) 1,024 x 768@60Hz/70Hz/75Hz (XGA) 1,152 x 864@75Hz 1,280 x 960@60Hz 1,280 x 1,024@60Hz/75Hz (SXGA) 1,280 x 720@60Hz 1,600 x 1,200@60Hz/70Hz 1,920 x 1,080@50Hz/60Hz
HDMI	Connector	1 HDMI input (Type A connector)
	Available Format	640 x 480p@60Hz, 720 x 480i@60Hz, 720 x 480p@60Hz 720 x 576i@50Hz, 720 x 576p@50Hz, 1,280 x 720p@50Hz/60Hz 1,920 x 1,080i@50Hz/60Hz, 1,920 x 1,080p@50Hz/60Hz
Audio	Connector	2 RCA type (2 Stereo inputs)
	Output Signal	Speakers : 2 x 1W
Application Support		Remote controller
ON SCREEN DISPLAY		
Functions		VESA™ DPM compatible
Language		English, Spanish, French, German, Italian, Portuguese, Russian, Dutch, Swedish, Turkey, Taiwanese, Chinese, Japanese, Korean
GENERAL		
Electrical	Input Voltage	100 ~ 240V AC (50/60Hz)
	Power Consumption	Type 46W
Environmental	Operating Temperature	0 ~ +40°C (+32°F ~ +104°F)
	Operating Humidity	20% ~ 90% (Non-condensing)
Mechanical	Dimensions with Stand (WxHxD)	515.0 x 402.0 x 217.0mm (20.28" x 15.83" x 8.54")
	Dimensions without Stand (WxHxD)	515.0 x 331.0 x 69.0mm (20.28" x 13.03" x 2.72")
	LCD Protection Glass	Yes
	Cabinet Color	Black
	Rack Mounts	Optional
	VESA Mounts Interface	100 x 100mm

SMT-1923/1922

19" TFT-LCD Monitor



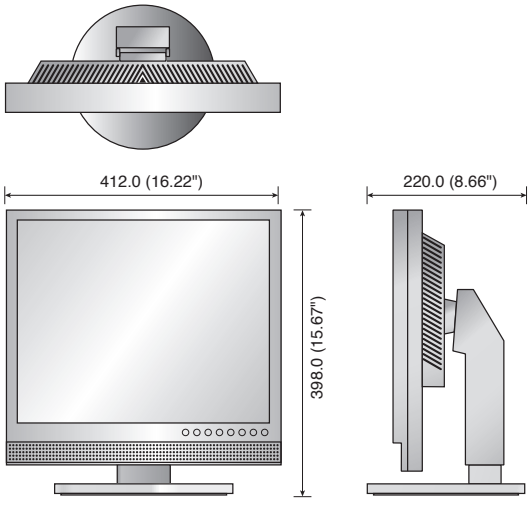
19" | 1000:1 High Contrast Ratio | 1280x1024 Resolution | 5ms Response Time | Built-in Speakers

Key Features

- Supports up to 1280 x 1024 resolution
- High contrast ratio 1000 : 1
- Fast response time 5ms
- 120Hz motion technology
- Adjustable height

Dimensions

Unit : mm (inch)



Technical Specifications

		SMT-1923/1922
DISPLAY		
Screen Size		19"
Max. Resolution		1,280 x 1,024
Brightness		250cd/m²
Contrast Ratio		1,000 : 1
Aspect Ratio		4 : 3
Viewing Angle (H/V)		170° / 160°
Display Color		16.7million
Response Time		5ms
Video System		NTSC / PAL
Panel Life		40,000hours
Filter Type		3D combfilter
INTERFACE		
Video	Connector	BNC types (2 in / 2 out)
S-Video	Connector	1CH input (Y/C), Loop through out
RGB / DVI	Connector	1 Analog RGB 15-pin D-sub
	Input Signal	0.7 Vp-p ±5%
	Available Format	720 x 400@70Hz 640 x 480@60Hz/72Hz/75Hz (VGA) 800 x 600@56Hz/60Hz/72Hz/75Hz (SVGA) 1,024 x 768@60Hz/70Hz/75Hz (XGA) 1,152 x 864@75Hz 1,280 x 720@60Hz 1,280 x 960@60Hz 1,280 x 1,024@60Hz/75Hz (SXGA)
Audio	Connector	2 RCA type (2 Stereo inputs)
	Output Signal	Speakers : 2 x 1W
Application Support		Remote controller
ON SCREEN DISPLAY		
Functions		Motion technology (120Hz), VESA™ DPM compatible, PIP/PBP
Language		English, Spanish, French, German, Italian, Portuguese, Dutch, Russian, Swedish, Chinese, Japanese, Korean
GENERAL		
Electrical	Input Voltage	SMT-1923 : 12V DC (External power supply) SMT-1922 : 100 ~ 240V AC (50/60Hz)
	Power Consumption	Type 26W
Environmental	Operating Temperature	0 ~ +40°C (+32°F ~ +104°F)
	Operating Humidity	20% ~ 90% (Non-condensing)
Mechanical	Dimensions with Stand (WxHxD)	412.0 x 398.0 x 220.0mm (16.22" x 15.67" x 8.66")
	Dimensions without Stand (WxHxD)	412.0 x 361.0 x 69.0mm (16.22" x 14.21" x 2.72")
	Weight	6.85Kg (15.1 lb)
	LCD Protection Glass	Yes
	Cabinet Color	Black
	VESA Mounts Interface	100 x 100mm

SMT-1723/1722

17" TFT-LCD Monitor



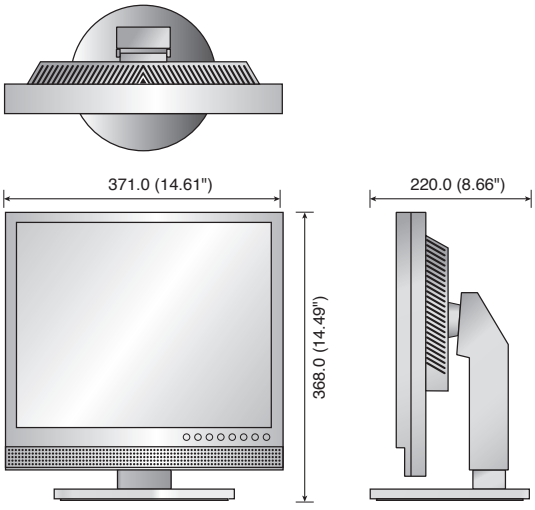


Key Features

- Supports up to 1280 x 1024 resolution
- High contrast ratio 1000 : 1
- Fast response time 5ms
- 120Hz motion technology
- Adjustable height

Dimensions

Unit : mm (inch)



Technical Specifications

		SMT-1723/1722
DISPLAY		
Screen Size		17"
Max. Resolution		1,280 x 1,024
Brightness		250cd/m^2
Contrast Ratio		1,000 : 1
Aspect Ratio		4 : 3
Viewing Angle (H/V)		170° / 160°
Display Color		16.7million
Response Time		5ms
Video System		NTSC / PAL
Panel Life		50,000hours
Filter Type		3D combfilter
INTERFACE		
Video	Connector	BNC types (2 in / 2 out)
S-Video	Connector	1CH input (Y/C), Loop through out
RGB / DVI	Connector	1 Analog RGB 15-pin D-sub
	Input Signal	0.7 Vp-p ±5%
	Available Format	720 x 400@70Hz 640 x 480@60Hz/72Hz/75Hz (VGA) 800 x 600@56Hz/60Hz/72Hz/75Hz (SVGA) 1,024 x 768@60Hz/70Hz/75Hz (XGA) 1,152 x 864@75Hz 1,280 x 720@60Hz 1,280 x 960@60Hz 1,280 x 1,024@60Hz/75Hz (SXGA)
Audio	Connector	2 RCA type (2 Stereo inputs)
	Output Signal	Speakers : 2 x 1W
Application Support		Remote controller
ON SCREEN DISPLAY		
Functions		Motion technology (120Hz), VESA™ DPM compatible, PIP/PBP
Language		English, Spanish, French, German, Italian, Portuguese, Dutch, Russian, Swedish, Chinese, Japanese, Korean
GENERAL		
Electrical	Input Voltage	SMT-1723 : 12V DC (External power supply) SMT-1722 : 100 ~ 240V AC (50/60Hz)
	Power Consumption	Type 23W
Environmental	Operating Temperature	0 ~ +40°C (+32°F ~ +104°F)
	Operating Humidity	20% ~ 90% (Non-condensing)
Mechanical	Dimensions with Stand (WxHxD)	371.0 x 368.0 x 220.0mm (14.61" x 14.49" x 8.66")
	Dimensions without Stand (WxHxD)	371.0 x 331.0 x 67.0mm (14.61" x 13.03" x 2.64")
	Weight	5.95Kg (13.12 lb)
	LCD Protection Glass	Yes
	Cabinet Color	Black
	VESA Mounts Interface	100 x 100mm

MEMO

CONTROLLERS

Samsung Total Security Solutions



SPC-6000

System Control Keyboard



Key Features

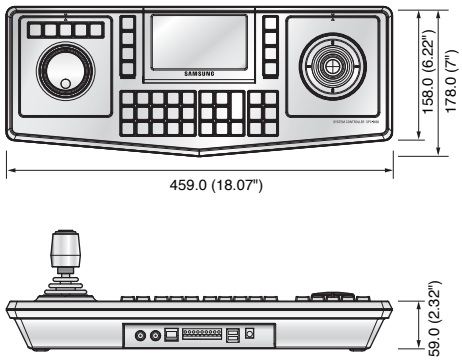
- 5" TFT touch LCD
- Control PTZ dome cameras, DVRs and matrix switchers
- Centralized control of up to 255 units with a single controller
- Connect up to 16 controllers in a system
- Ergonomic design and easy-to-use keypad
- 3D joystick to control PTZ function
- Detachable joystick/jogshuttle for universal use (right/left hand use)
- Support for multi-protocol
- User friendly GUI

Technical Specifications

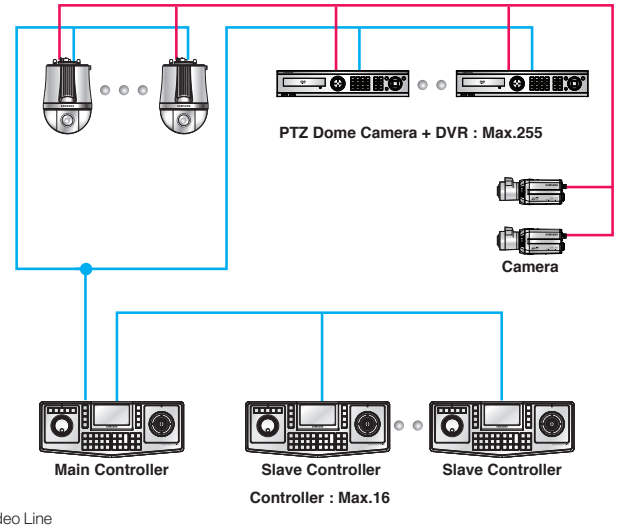
		SPC-6000
COMMUNICATION		
Interface		RS-485/422 (Operating distance 1km), TTL (Matrix)
Data Port		8-pin RJ-45 connector (Female) (RS-485 serial port) BNC (Video input, Loop through), USB 2.0 (F/W updatable)
Baud Rate		2,400 ~ 38,400bps
Protocol	PTZ	Samsung-T/E, Pelco-D/P, Panasonic, Vicon, AD, Honeywell, ELMO, Bosch, GE
	DVR	SRD, SVR
	Matrix	SMX-25632
	Receiver	Samsung-T
OPERATIONAL		
LCD Display		5" TFT touch LCD
Joystick		3 Axis twist zoom
Jog Shuttle		DVR playback control
On Screen Display		English, French, German, Spanish, Italian, Chinese, Russian, Polish, Czech, Romanian, Serbian, Swedish, Danish, Turkish, Portuguese
ENVIRONMENTAL		
Operating Temperature		0°C ~ 40°C
Operating Humidity		10 ~ 70% (Non-condensing)
ELECTRICAL		
Input Voltage / Current		12V DC / 4A
Power Consumption		Max. 4W
MECHANICAL		
Dimensions (WxHxD)		459.0 x 59.0 x 178.0mm (18.07" x 2.32" x 7")
Weight		1.5Kg (3.3 lb)

Dimensions

Unit : mm (inch)



System Configuration



SPC-1010

PTZ Control Keyboard



Key Features

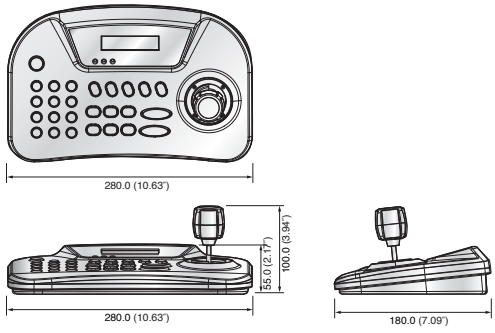
- Control up to 255 PTZ cameras
- Superior system compatibility : Multi protocols support
- OSD menu, 3D joystick control
- RS-485 and RS-422 compatibility

Technical Specifications

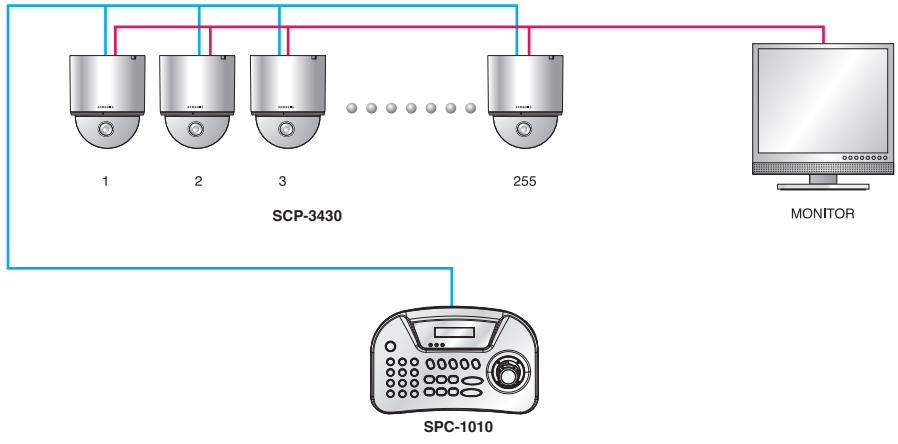
		SPC-1010
LCD Display		16 x 2 character LCD
Speed Control		Joystick (3-axis twist zoom)
Protocol	PTZ	Samsung-T/E, Pelco-D/P, Panasonic, Vicon, AD, Honeywell
	Receiver	Samsung-T
Control Capacity		Up to 255 Cameras (Suitable for Mid-, Large- size system)
Communications	Standards	RS-485/422 (Remote control : 1Km)
	Transfer Speed	2,400 ~ 57,600bps
Voltage		12V DC, 140mA
Operating Temperature		0°C ~ +45°C (+32°F ~ +113°F)
Operating Humidity		10% ~ 70%
Dimensions (WxHxD)		280.0 x 100.0 x 180.0mm (10.63" x 3.94" x 7.09")
Weight		Approx. 0.7Kg (1.54 lb) (Without adapter)

Dimensions

Unit : mm (inch)



System Configuration



SPC-2000

Network Controller



Technical Specifications

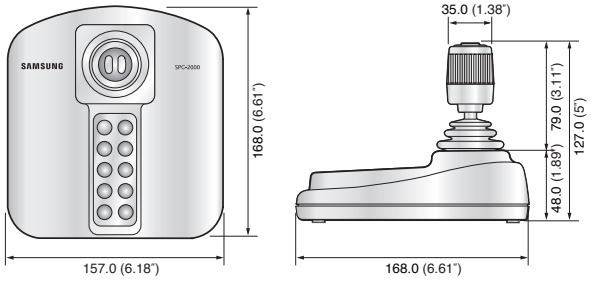
	SPC-2000
PTZ Control	Joystick (3-axis twist zoom)
Interface	USB 2.0, DirectX
Voltage	5V DC, 32mA (USB)
Operating Temperature	-25°C ~ +70°C (-13°F ~ +158°F)
Operating Humidity	10% ~ 70%
Dimensions (WxHxD)	157.0 x 127.0 x 168.0mm (6.18" x 5" x 6.61")
Weight	440g (0.97 lb)

Key Features

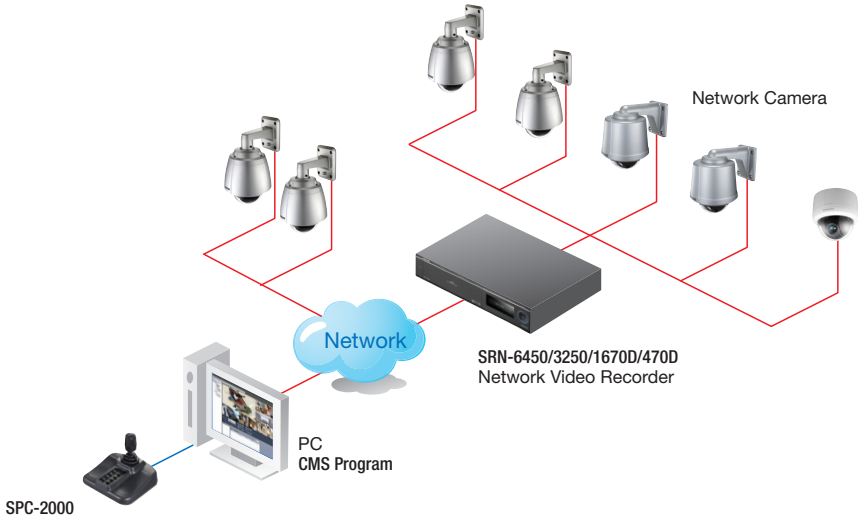
- Superior system compatibility
- 3D joystick control
- Quick and easy installation via USB port
- NET-i viewer support

Dimensions

Unit : mm (inch)



System Configuration



SPC-300

Coaxial Remote Controller



Key Features

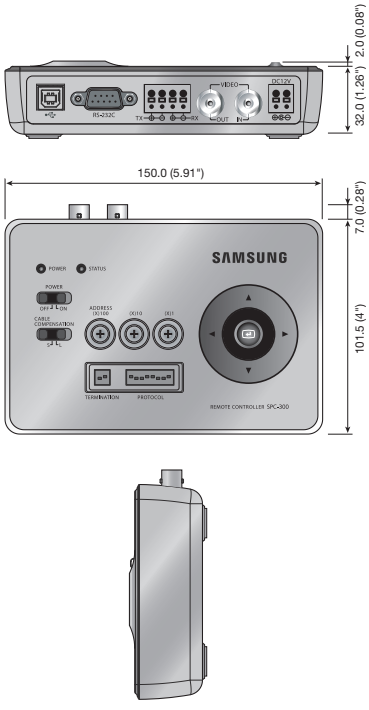
- Control via coaxial cable or RS-485
- Connects to 1 camera
- Cable extension : Max. 500m (with 5C-2V cable)
- External control interface : RS-232C, RS-485
- Power input : 12V DC adaptor or 4AA battery

Technical Specifications

		SPC-300
Control		1 Coaxial cable RS-485 (Multi-protocol)
Signal	Input	Composite video
	Output	VBS 1.0Vp-p/75ohms
Cable	Extension	Max. 500m (With 5C-2V cable)
	Compensation	2 steps by a switch
External Control Interface		RS-232C, RS-485
Power		12V DC adaptor, 4AA battery
Dimensions (WxHxD)		150.0 x 34.0 x 101.5mm (5.91" x 1.34" x 4")
Weight		200g (0.44 lb)

Dimensions

Unit : mm (inch)



MEMO



PERIPHERAL

Samsung Total Security Solution

PTZ/Dome Mounts









Ivory	SBP-300WM1	SBP-300WM	SBP-300CM	SBP-300HM1	SBP-300LM	SBP-300PM	SBP-300KM
Materials	Aluminum + SECC	Aluminum + SECC	Aluminum + SECC	Aluminum	Aluminum + SECC	SECC	SECC
Dimensions (WxHxD)	112.0 x 183.0 x 207.5mm (4.41" x 7.2" x 8.17")	112.0 x 183.0 x 276.5mm (4.41" x 7.2" x 10.89")	Ø130.0 x 305.5mm (Ø5.12" x 12.03")	Ø178.0 x 53.0mm (Ø7.01" x 2.09")	297.0 x 897.0 x 668.0mm (11.69" x 35.31" x 26.3")	166.0 x 183.0 x 65.0mm (6.54" x 7.2" x 2.56")	115.0 x 183.0 x 100.0mm (4.53" x 7.2" x 3.94")
Weight	800g (1.76 lb)	850g (1.87 lb)	700g (1.54 lb)	500g (1.1 lb)	3.5Kg (7.72 lb)	1.4Kg (3.09 lb)	2.2Kg (4.85 lb)



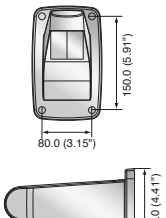




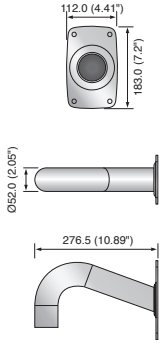

Light Gray	SCX-300WM	SCX-300CM	SCX-300HM	SCX-300LM	SCX-300PM	SCX-300KM
Materials	Aluminum + SECC	Aluminum + SECC	Aluminum	Aluminum + SECC	SECC	SECC
Dimensions (WxHxD)	112.0 x 183.0 x 276.5mm (4.41" x 7.2" x 10.89")	Ø130.0 x 305.5mm (Ø5.12" x 12.03")	Ø178.0 x 53.0mm (Ø7.01" x 2.09")	297.0 x 897.0 x 668.0mm (11.69" x 35.31" x 26.3")	166.0 x 183.0 x 65.0mm (6.54" x 7.2" x 2.56")	115.0 x 183.0 x 100.0mm (4.53" x 7.2" x 3.94")
Weight	850g (1.87 lb)	700g (1.54 lb)	500g (1.1 lb)	3.5Kg (7.72 lb)	1.4Kg (3.09 lb)	2.2Kg (4.85 lb)

Dimensions

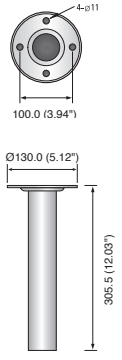
Unit : mm (inch)



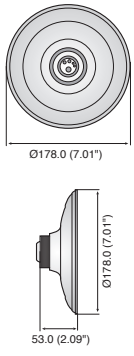
SBP-300WM1



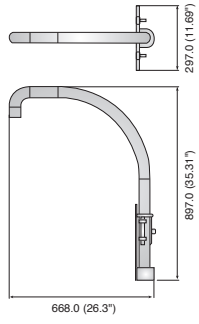
SBP-300WM
SCX-300WM



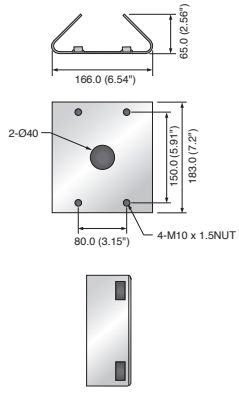
SBP-300CM
SCX-300CM



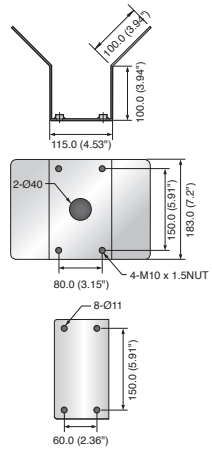
SBP-300HM1
SCX-300HM



SBP-300LM
SCX-300LM



SBP-300PM
SCX-300PM



SBP-300KM
SCX-300KM

PTZ/Fixed Mounts



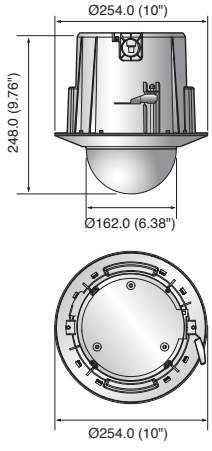




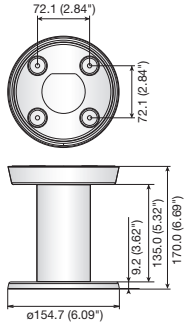

	SHP-3700F	SBU-500WM	SBU-220PM	STB-400	STB-4150V
Load Weight	20Kg (6 lb)	20Kg (44.09 lb)	20Kg (44.09 lb)	5Kg (11.02 lb)	0.4Kg (0.88 lb)
Materials	Polycarbonate	ALDC	ALDC	Aluminum	Aluminum
Dimensions (WxHxD)	External : Ø254.0 x 248.0mm (Ø10" x 9.76") Internal: Ø186.0 x 242.0 (145 at Housing)mm (Ø7.32" x 9.53")	120.0 x 496.8 x 177.0mm (4.72" x 19.56" x 6.97")	Ø154.7 x 170.0mm (Ø6.09" x 6.69")	89.0 x 108.0 x 366.0mm (3.5" x 4.25" x 14.41")	Ø80.0 x 155.4mm (Ø3.15" x 6.12")
Weight	702g (1.55 lb)	1.79Kg (3.95 lb)	1.5Kg (3.31 lb)	1Kg (2.2 lb)	400g (0.88 lb)
Color	Ivory	Ivory	Ivory	Ivory	Silver

Dimensions

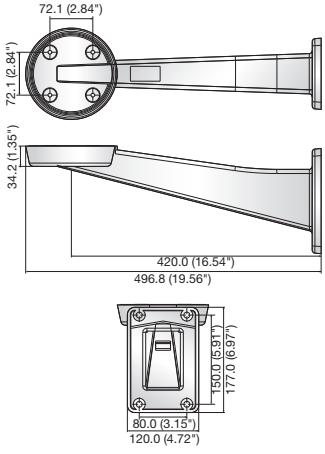
Unit : mm (inch)



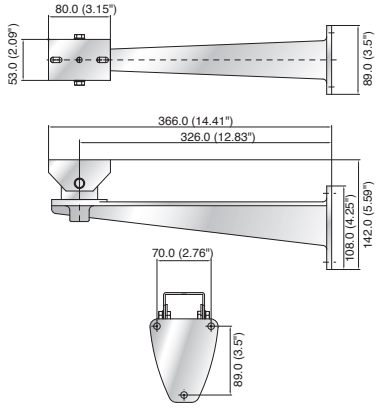
SHP-3700F



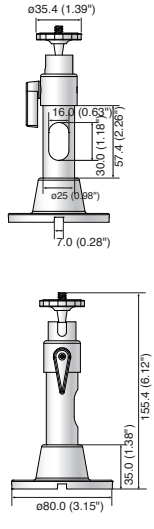
SBU-220PM



SBU-500WM



STB-400



STB-4150V

Fixed Housings



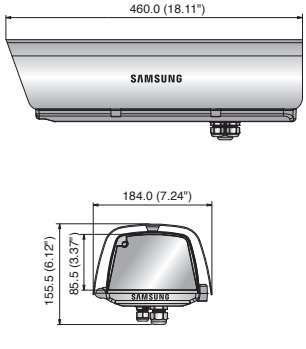




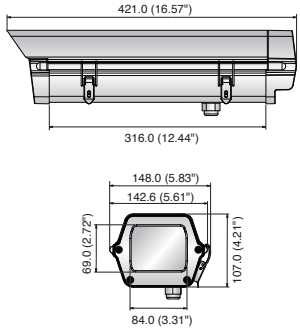

		SHB-4300H	SHB-4300H1	SHB-4200	SHB-4200H	STH-500	STH-200
Open Type		Side open	Side open	Side open	Side open	Side open	Side open
Cable Entry		Nylon gland	Nylon gland	Nylon gland	Nylon gland	Nylon gland	Nylon gland
Operating Temperature	Set	-35°C ~ +50°C (-31°F ~ +122°)	-50°C ~ +50°C (-58°F ~ +122°F)	-10°C ~ +50°C (14°F ~ +122°)	-35°C ~ +50°C (-31°F ~ +122°)	-10°C ~ +50°C (14°F ~ +122°)	-40°C ~ +50°C (-40°F ~ +122°F)
	Heater	5°C ± 5°C on	5°C ± 5°C on	N/A	4°C ± 3°C on	N/A	N/A
	Blower	+45°C ~ +5°C on	+45°C ~ +5°C on	N/A	+45°C ~ +5°C on	N/A	N/A
Defroster		N/A	Constant	N/A	N/A	N/A	N/A
Operating Humidity		-20% ~ 49% RH	-20% ~ 49% RH	-20% ~ 49% RH	-20% ~ 49% RH	-20% ~ 49% RH	-20% ~ 49% RH
Materials		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Ingress Protection		IP66	IP66	IP66	IP66	N/A	N/A
Dimensions (WxHxD)	External	184.0 x 127.0 x 460.0mm (7.24" x 5" x 18.11")	184.0 x 127.0 x 460.0mm (7.24" x 5" x 18.11")	148.0 x 107.0 x 421.0mm (5.8" x 4.21" x 16.57")	148.0 x 107.0 x 421.0mm (5.83" x 4.21" x 16.57")	144.0 x 100.0 x 500.0mm (5.67" x 3.94" x 19.69")	118.0 x 92.0 x 405.0mm (4.65" x 3.62" x 15.94")
	Internal	100.0 x 80.0 x 383.0mm (3.94" x 3.15" x 15.08")	100.0 x 80.0 x 383.0mm (3.94" x 3.15" x 15.08")	84.0 x 69.0 x 319.0mm (3.31" x 2.72" x 12.56")	84.0 x 69.0 x 319.0mm (3.31" x 2.72" x 12.56")	88.0 x 68.0 x 383.0mm (3.46" x 2.68" x 15.08")	70.0 x 56.0 x 360.0mm (2.76" x 2.2" x 14.17")
Weight		3.5Kg (7.72 lb)	3.7Kg (8.16 lb)	1Kg (2.2 lb)	1.1Kg (2.3 lb)	1.5Kg (3.31 lb)	1Kg (2.2 lb)
Input Voltage		24V AC	24V AC	N/A	24V AC	N/A	N/A
Color		Ivory	Ivory	Ivory	Ivory	Ivory	Ivory

Dimensions

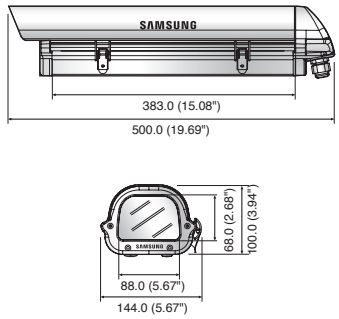
Unit : mm (inch)



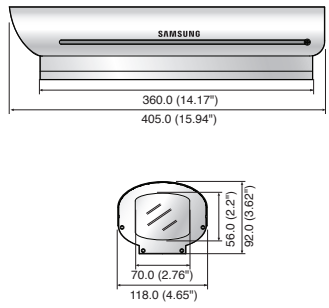
SHB-4300H/4300H1



SHB-4200/4200H



STH-500



STH-200

UTP System



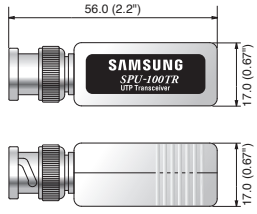


		SPU-400	SPU-400R
Video Input Signal		Cable link	Balanced differential signal 100Ω
Video Output Signal		Cable link	CVBS 1.0Vp-p, 75Ω
Video	Freq. Response	N/A	DC to 5MHz
	Common-mode Rejection	N/A	60dB
	Impedance	N/A	Coax, BNC 75ohms / UTP, RJ-45 50ohms
Max. Distance	Power	300m (1,000ft)	N/A
	Video	Cable link	900m (3,000ft)
Power	Display	LED	Switch LED
	Input	115 / 230V AC, 50/60Hz	100 ~ 240V AC, 50/60Hz
	Output	24V AC / 28V AC, 1Amp.	N/A
	Voltage Control	24V AC / Off / 28V AC switchable	N/A
	Power on Display	Green	Green
	Protection	4A fuse	2.5A fuse
Port	Video Input	4port (RJ-45)	1port (RJ-45)
	Video Output	1port (RJ-45)	Female BNC it has 2 outputs per channel
	DATA	1port (RJ-45)	N/A
LED Display	Red	Short shutdown condition	No signal detected
	Green	Load connected and working	Valid video signal
	Amber	Overload	N/A
	Off	Not connected	N/A
Operating Temperature		-10°C ~ +50°C (+14°F ~ +122°F)	-10°C ~ +50°C (+14°F ~ +122°F)
Operating Humidity		0% ~ 80% RH	0% ~ 80% RH
Materials		Steel	Steel
Dimensions (WxHxD)		260.0 x 44.0 x 225.0mm (10.24" x 1.73" x 8.86")	430.0 x 43.0 x 250.0mm (16.93" x 1.69" x 9.84")
Weight		4.35Kg (9.59 lb)	2.56Kg (5.64 lb)

		SPU-100TR
Video Input Signal		CVBS 1.0Vp-p, 75Ω / Balanced differential signal 100Ω
Video Output Signal		Balanced differential signal 100Ω / CVBS 1.0Vp-p, 75Ω
Video	Freq. Response	DC to 5MHz
	Impedance	Coax, BNC 75ohms / UTP, RJ-45 50ohms
Max. Distance	Power	N/A
	Video	225m (750ft)
Port	Video Input	2P terminal block or BNC-male
	Video Output	2P terminal block or BNC-male
Operating Temperature		-10°C ~ +50°C (+14°F ~ +122°F)
Operating Humidity		0% ~ 80% RH
Materials		ABS
Dimensions (WxHxD)		17.0 x 17.0 x 56.0mm (0.67" x 0.67" x 2.2")
Weight		20g (0.04 lb)

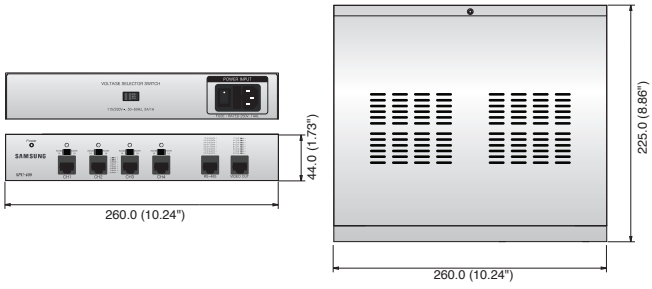
Dimensions

Unit : mm (inch)

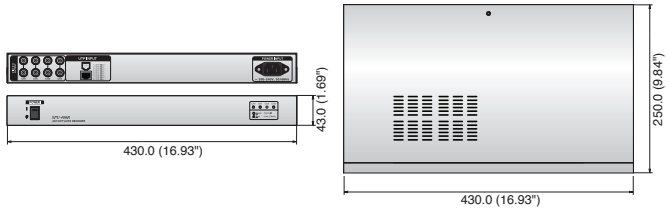


Dimensions

Unit : mm (inch)



SPU-400

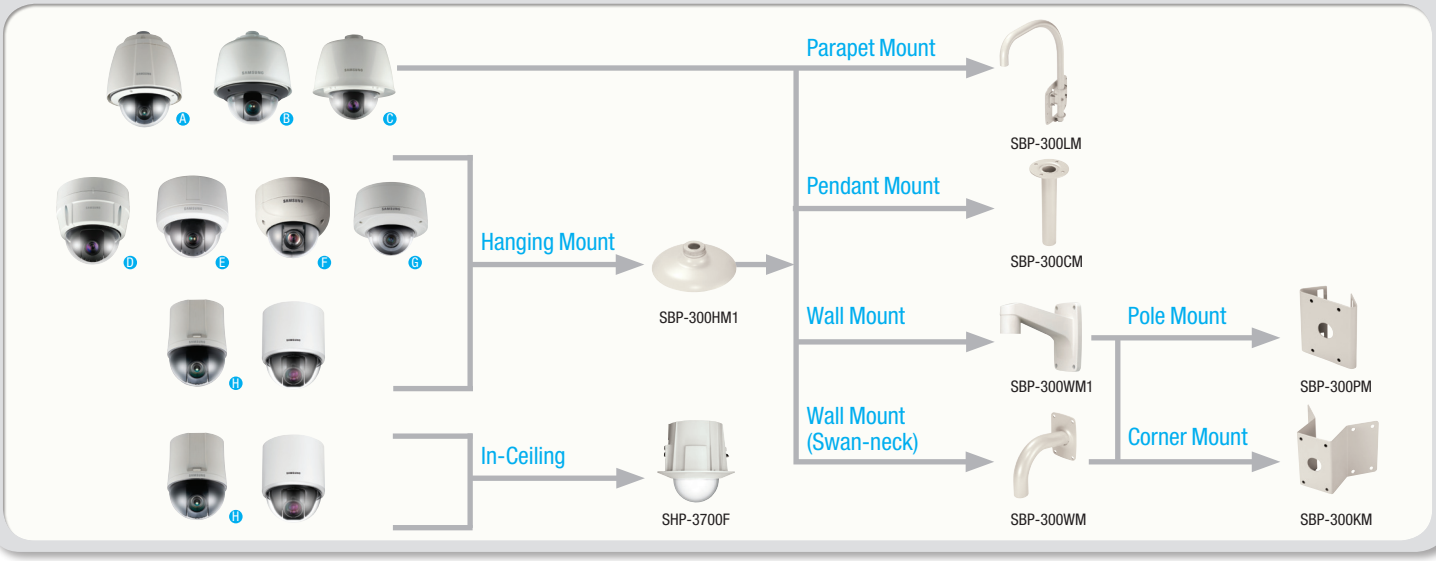


SPU-400R SPU-100TR

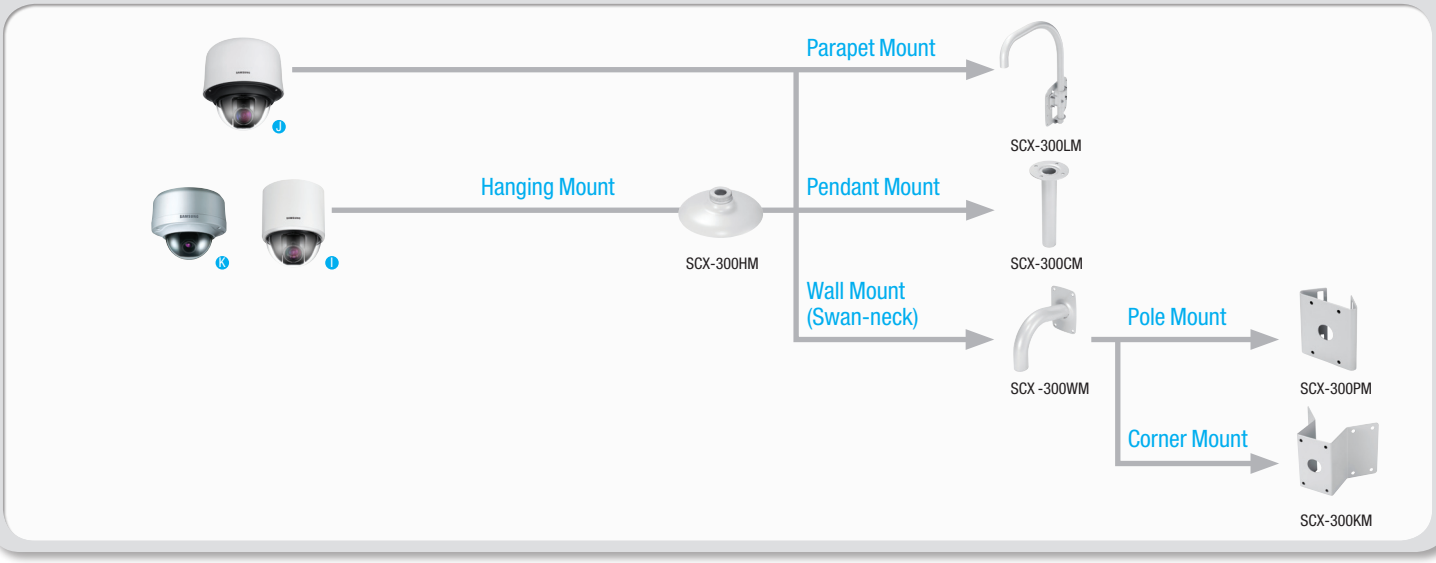
Accessories Configuration

	PTZ					Vandal-Resistant		PTZ			Vandal-Resistant
Shape											
Color	Ivory							Light gray			
Model	SCP-3370TH SCP-2370TH SCP-2270H SNP-5200H SNP-3371TH/3302H	SNP-3430H	SCP-3120VH SNP-3120VH	SCP-3120V SNP-3120V	SCP-3120 SCP-2120	SCV-2120 SCV-2120R	SNP-7080	SCP-3370 SCP-2370 SCP-2270 SNP-5200 SNP-3371/3302	SCP-3430 SCP-2430	SCP-3430H SCP-2430H	SCV-3080 SCV-2080 SNV-5080

Ivory Color



Light Gray Color



Business Solutions

Seaport

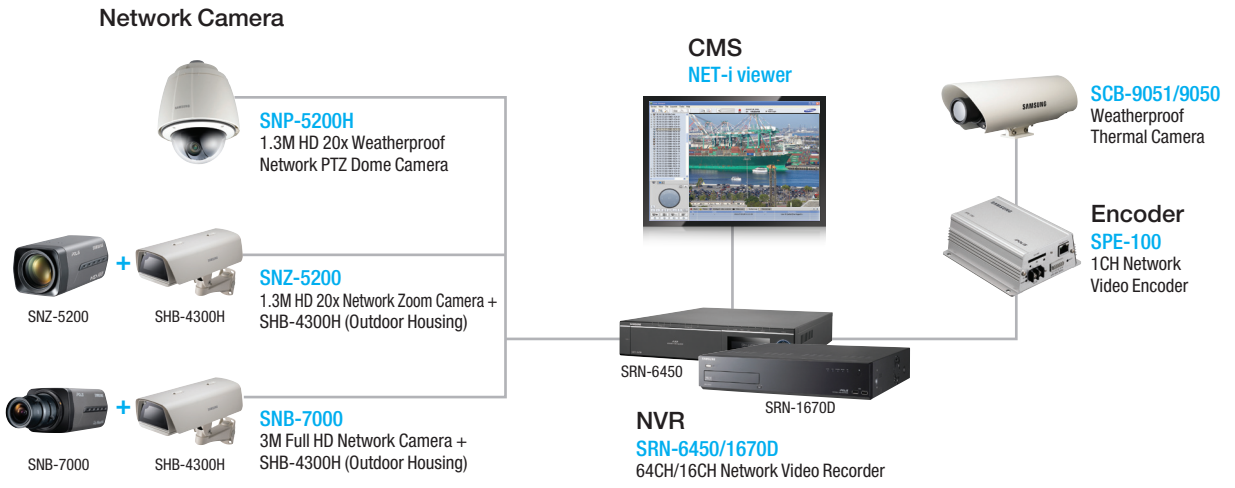
Seaports see a lot of activity throughout the day. Many containers are shipped with valuable goods that may attract intruders. A high security surveillance system is also necessary for unexpected sea attacks from unknown forces. It is imperative to have an efficient surveillance system in place for national security and property protection.



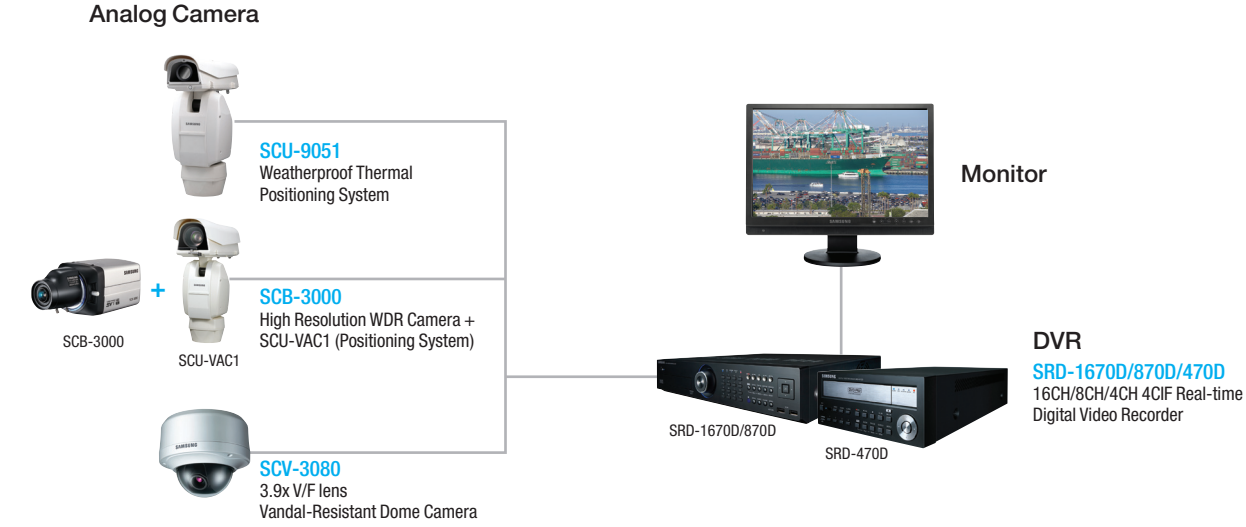
Main Mission

- Protect containers for importing/exporting
- Keep a watch on emergency situations
- Enhance national safety

Configuration (Network System)



Configuration (Analog System)



Business Solutions

City & Road Surveillance

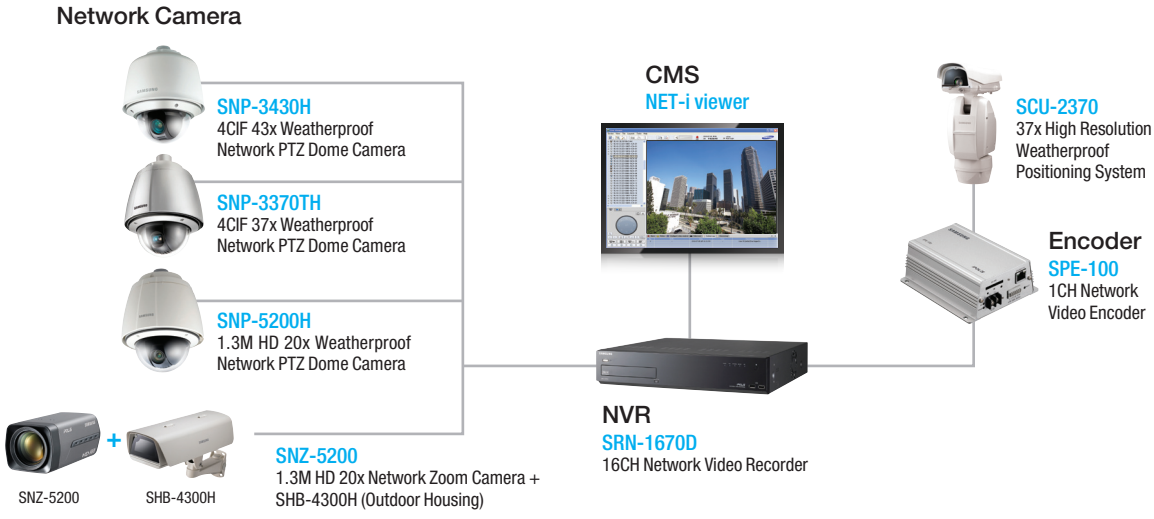
Samsung's security solutions offer essential tools for city surveillance in the protection of citizens from theft and other crimes. It is also very useful for road surveillance. Our solution helps to create a secure environment by informing watchers of any criminal situations.



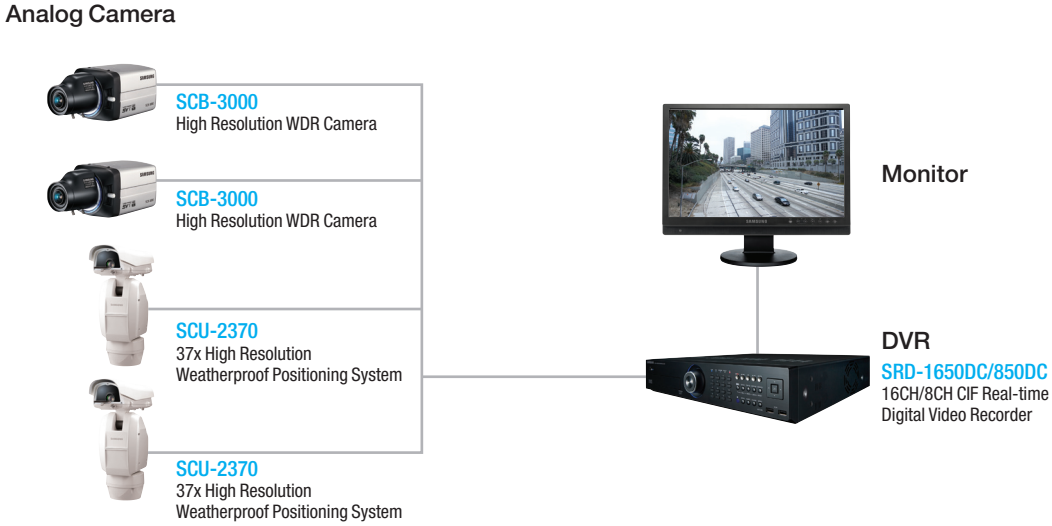
Main Mission

- Protect citizens and property
- Increase urban safety and city value

Configuration (Network System)



Configuration (Analog System)



Business Solutions

Banking

Video surveillance in banking institutions is not only about protection against theft, but it is also about providing a safer environment for staff members and customers. From a small town facility to large offices with many branches, Samsung can provide a customized solution for each facility.



Main Mission

- Prevent theft
- Provide secure environment

Configuration (Network System)

Network Camera



Configuration (Analog System)

Analog Camera



Business Solutions

Healthcare

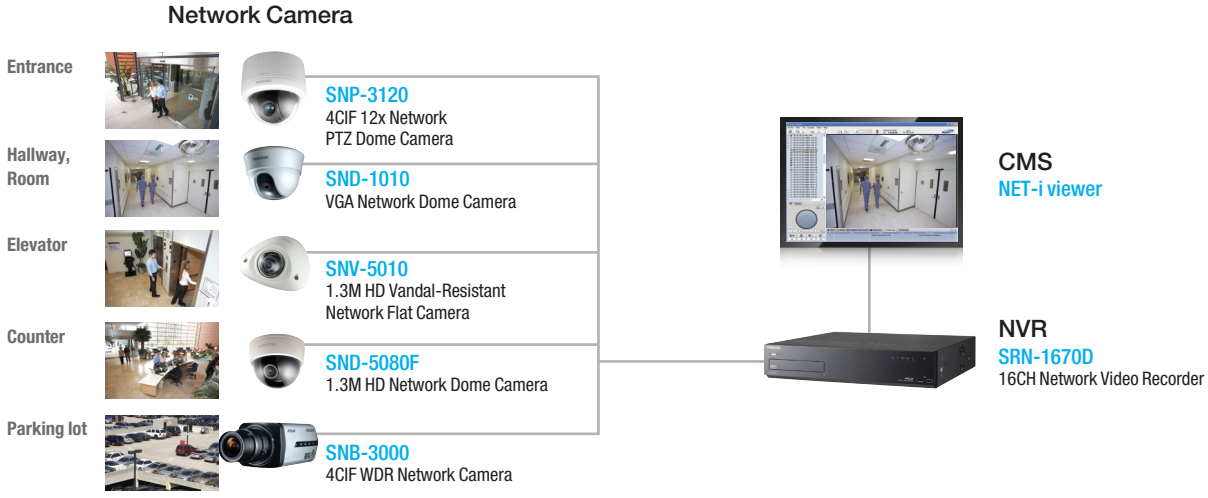
As healthcare facilities become larger and more professional, needs for safety and efficient managing becomes an important issue. Samsung offers a solution to improve overall safety at any facility, and provides monitoring over patient care and activities.



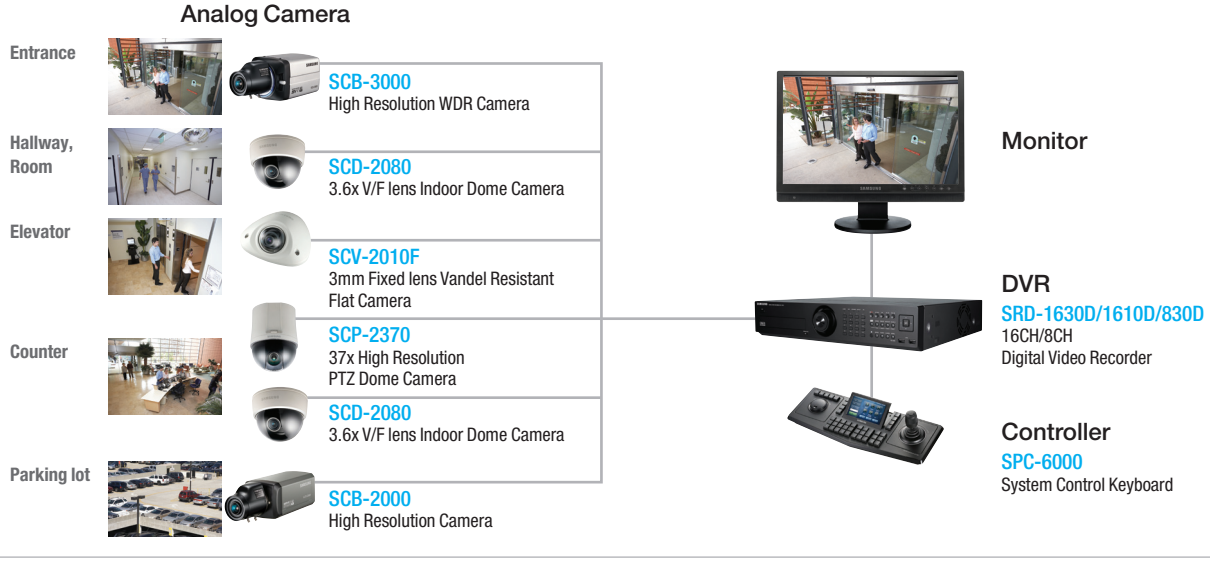
Main Mission

- Improve the safety in facilities
- Efficient patient or activities monitoring in patient care
- Protect physical and intellectual property

Configuration (Network System)



Configuration (Analog System)



Business Solutions

Casino

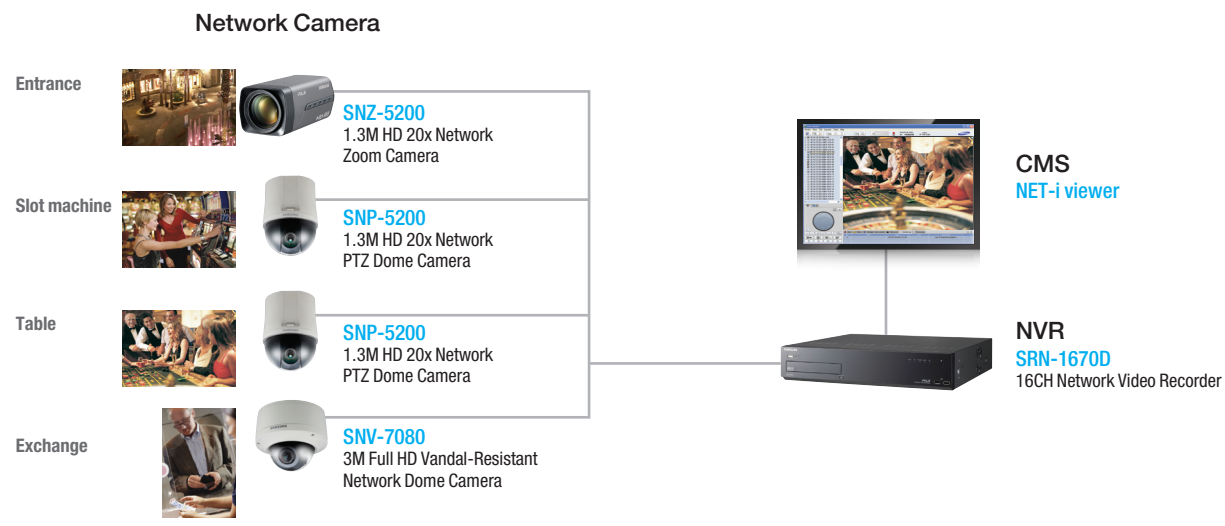
Gaming facilities such as casinos and other entertainment operations need the most powerful high surveillance tools. Our cameras clearly capture the sleight of hand and any quick movement which is what casinos need most. Samsung's CCTV products can meet these needs.



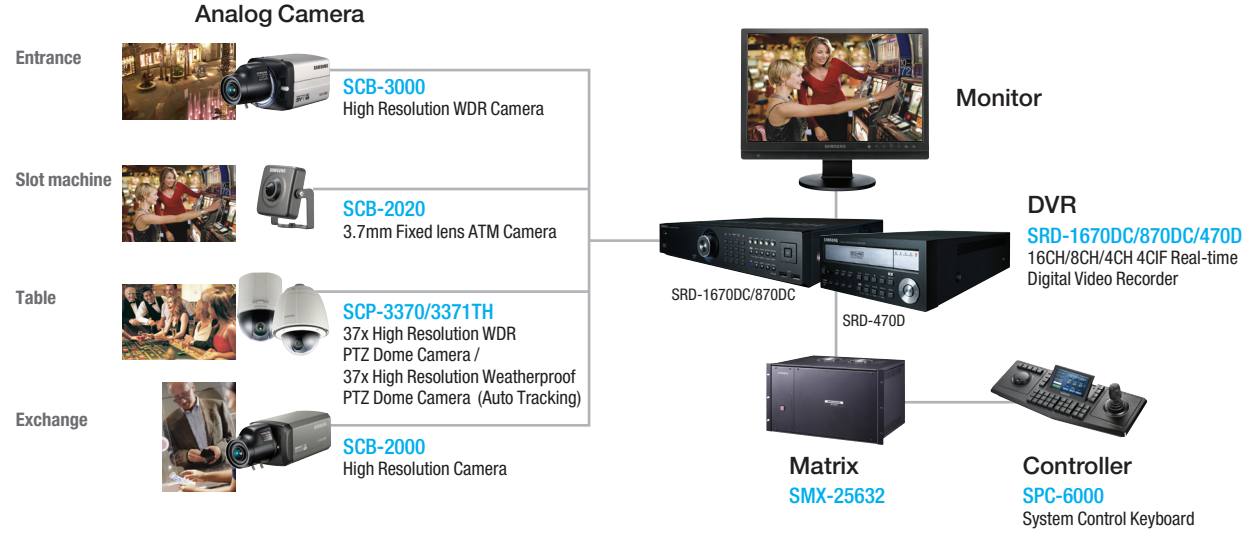
Main Mission

- Help manage clientele
- Prevent cheating and deter criminal actions
- Provide a safe environment

Configuration (Network System)



Configuration (Analog System)



Business Solutions

Retail

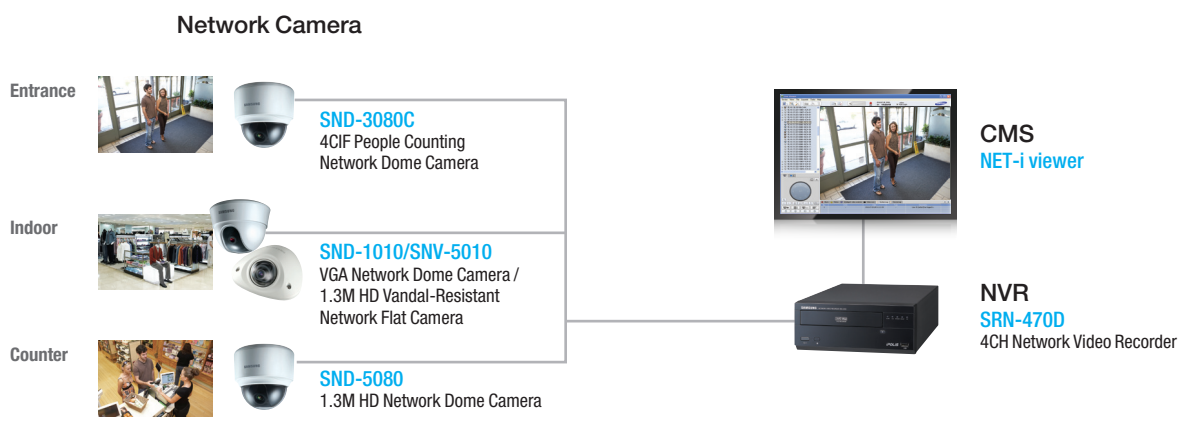
When you encounter theft and other management issues at your shop, Samsung's security solutions can provide the most practical way to solve your problem areas. With 24/7 monitoring, your shop will gain the safety and efficiency it needs.



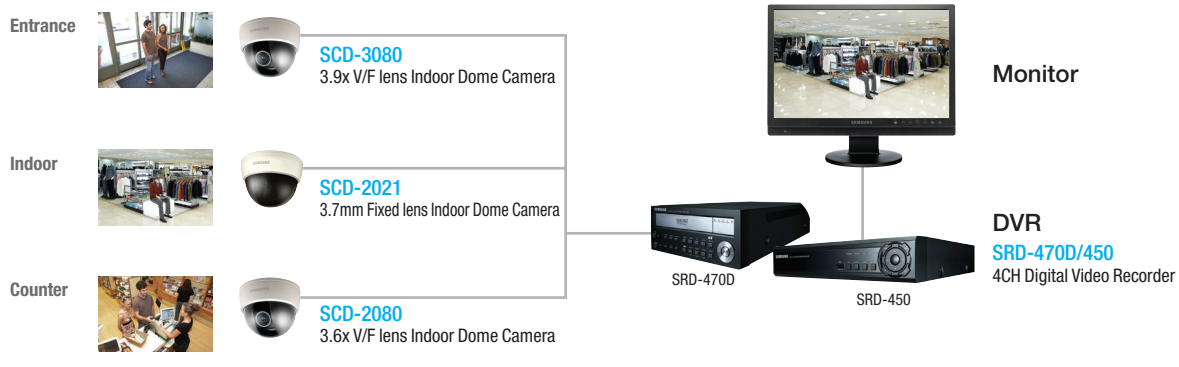
Main Mission

- Prevent and deter thieves with 24/7 monitoring
- Provide better service to customers
- Improve staff and customer safety

Configuration (Network System)



Configuration (Analog System)



Business Solutions

Education

Recent news tells us how educational facilities are exposed to kidnapping, violence, and vandalism. That's why Samsung offers security solutions to solve these issues. From a single building to a large university campus, we can meet your specific needs properly.



Main Mission

- Prevent any criminal action
- Enhance safety for students and staffs
- Monitor all campus areas in real-time

Configuration (Network System)

Network Camera


Gate


Playground


Classroom, Hallway


Outside


Rooftop


SNP-3302H
4CIF 30x Weatherproof Network PTZ Dome Camera


SNP-3302H
4CIF 30x Weatherproof Network PTZ Dome Camera


SNV-3080/3120, SNO-5080R
4CIF WDR/4CIF 12x Vandal-Resistant Network Dome Camera, 1.3M HD Weatherproof Network IR Camera


SNP-3371TH
4CIF 37x Weatherproof Network PTZ Dome Camera (Auto Tracking)


SNP-3371TH
4CIF 37x Weatherproof Network PTZ Dome Camera (Auto Tracking)


CMS
NET-i viewer


NVR
SRN-1670D
16CH Network Video Recorder

Configuration (Analog System)

Analog Camera


Gate


Playground


Classroom, Hallway


Outside


Rooftop


SCB-3001
Premium Resolution WDR Camera


SCP-2370H
37x High Resolution Weatherproof PTZ Dome Camera


SCV-3080
3.9x V/F lens Vandal-Resistant Dome Camera


SCP-2370TH
37x High Resolution Weatherproof PTZ Dome Camera (Auto Tracking)


SCU-2370
37x High Resolution Weatherproof Positioning System


Monitor


DVR
SRD-1650DC/850DC
16CH/8CH
Digital Video Recorder

Business Solutions

Government

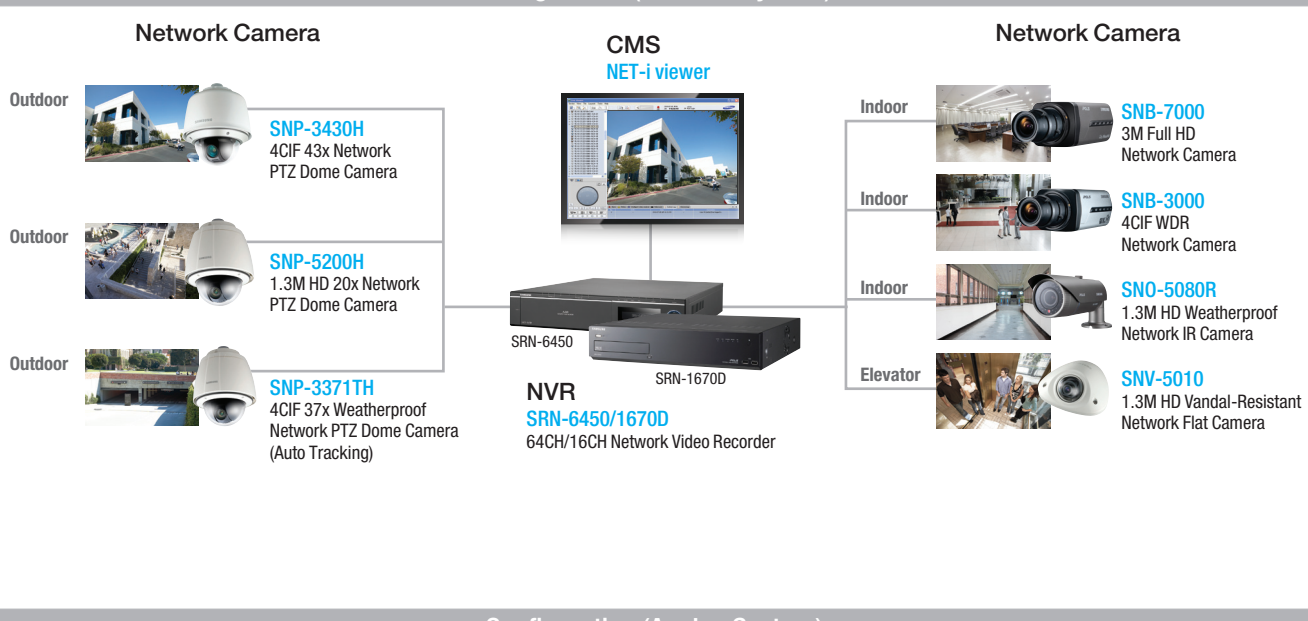
For any government agency or facility the most important issue is public safety and security. Samsung's security solutions are ready to support all government departments.



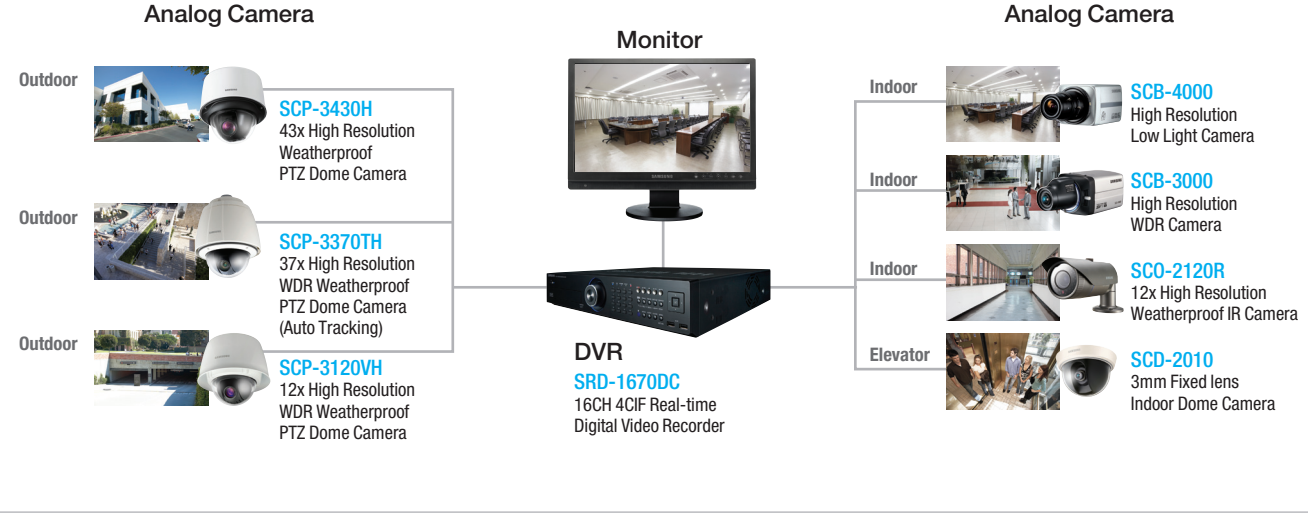
Main Mission

- Protect nation's property and infrastructure
- Build internal and external security
- Public safety

Configuration (Network System)



Configuration (Analog System)



ACCESS CONTROL SYSTEM

Samsung Total Security Solution



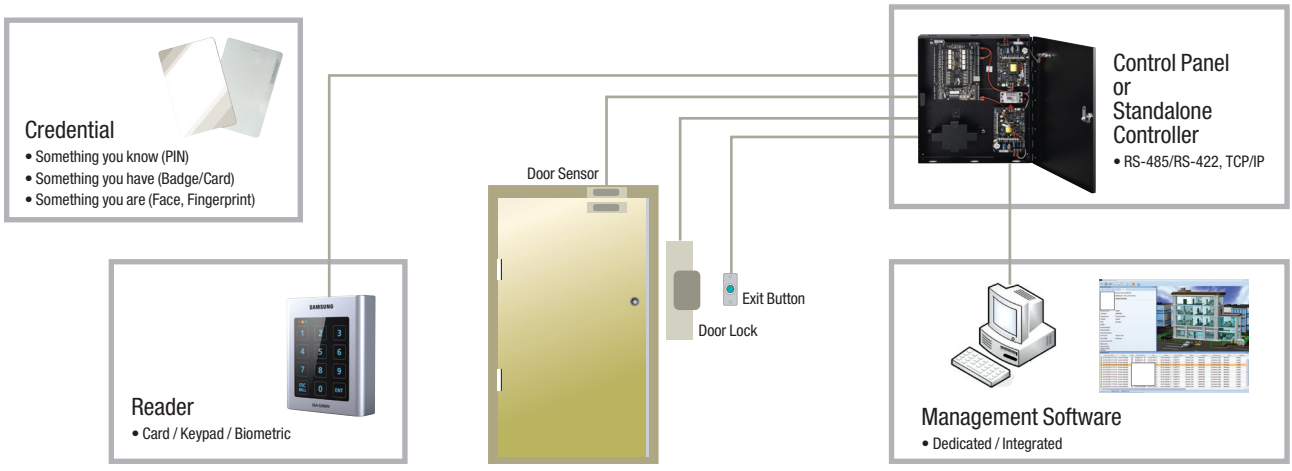
Access Control System Terms & Features

Access Control System

A system which enables an authority to control access to areas and resources in a given physical facility. In physical security, the term access control refers to the practice of restricting entrance to a property, a building, or a room to authorized persons. An access control system determines who is allowed to enter or exit, where, when, and how they are allowed to enter or exit.

Access Control Product Types

An access control system includes the following product types : Control Panels, Standalone Controllers, Readers, Credentials, and Software.



Control Panel

The Control panel interfaces with readers and door hardware at each entry/exit point and communicates with the management software(PC) through a TCP/IP or serial RS-485/422 communication line.

Standalone Controller

A Standalone controller is a reader with a controller built into it. This is a complete Access Control solution for one entry point.

Reader

A Reader reads the information from a credential and sends the identity information to the control panel through a Wiegand communication line. A Reader can have one or more interfaces, accommodating a combination of RFID cards as well as a keypad and/or biometric reader.

Credential

A card or credential contains a pass code, number, or biometric information which identifies the user to the access control system.

Management Software

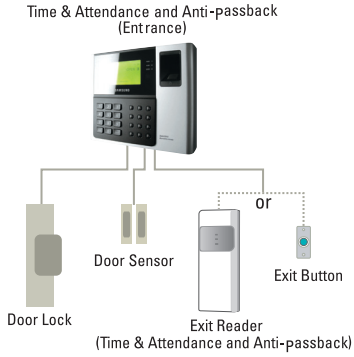
Access control software enables the user to program custom database into the system. Cardholder access parameters can be set up as well as enabling automatic door control and a number of customized features.

Access Control System Configuration

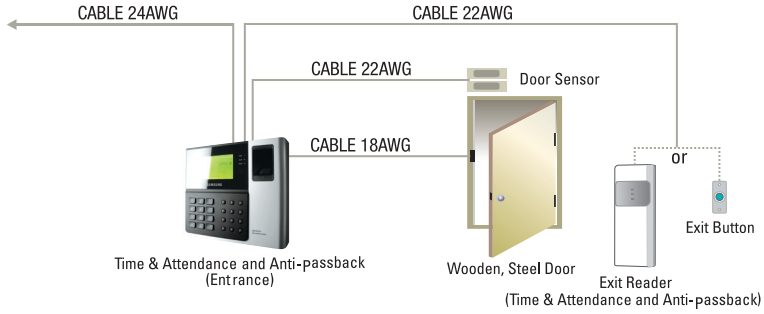
System with Standalone Controller

- Composed of standalone controllers with built-in reader
- Can be operated in network system with optimal PC software (SSA-M1600)

Standalone Configuration



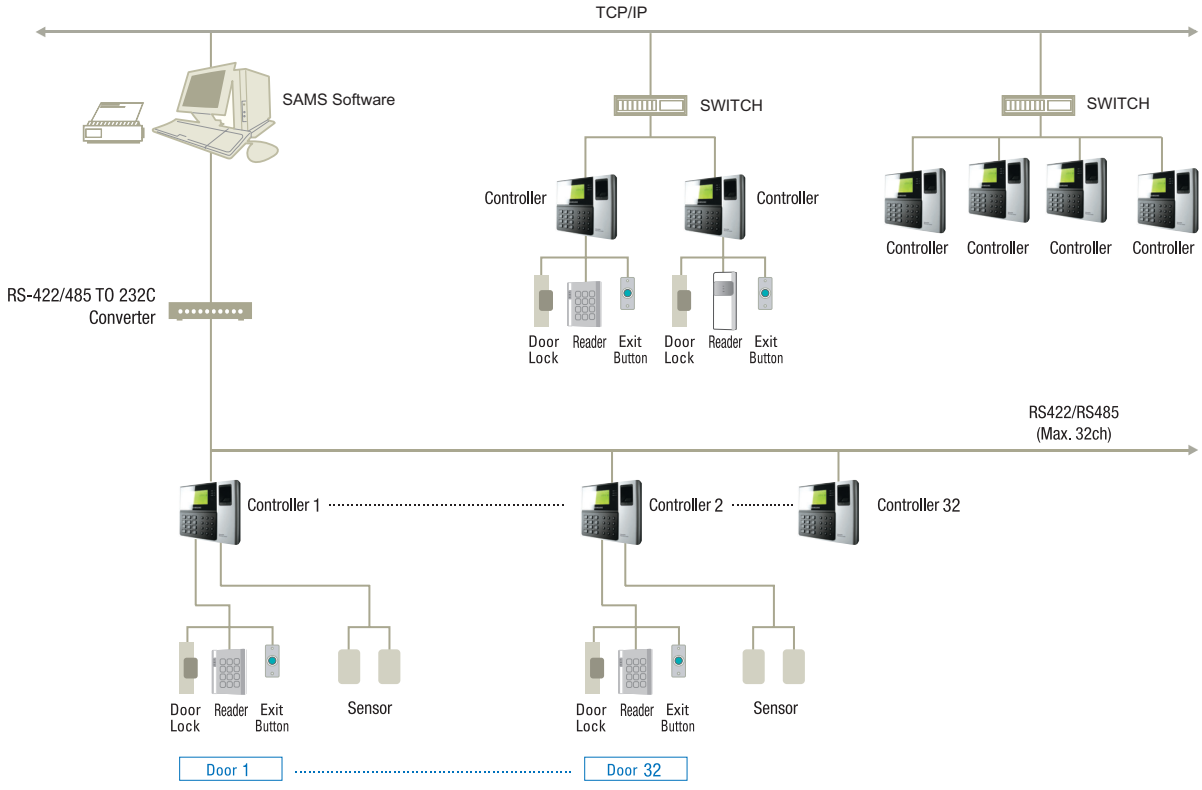
Standalone Configuration



Model

SSA-S30x0/S30x1	Fingerprint recognition, Proximity / Smart card, PIN
SSA-S2100/S2101	Proximity / Smart card, PIN
SSA-S2000/S1000	PIN / Proximity card (No connection to network)

Network Configuration

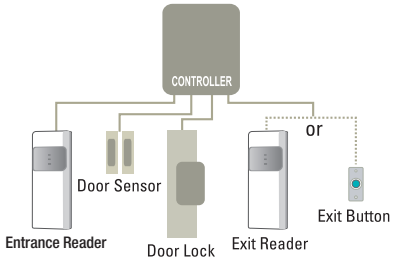


Access Control System Configuration

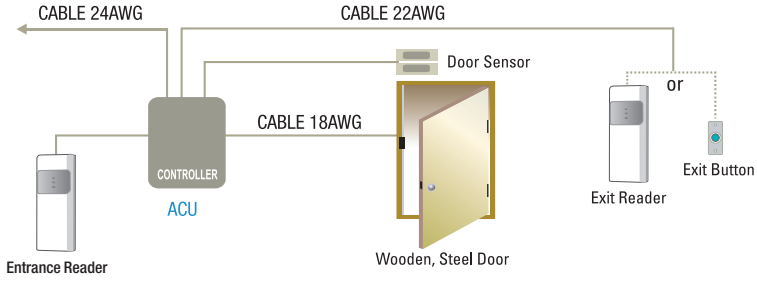
System with Control Panels and Wiegand Readers

- Composed of any Wiegand compatible access control panel and readers
- Communication via RS-485/422 or TCP/IP

Standalone Configuration



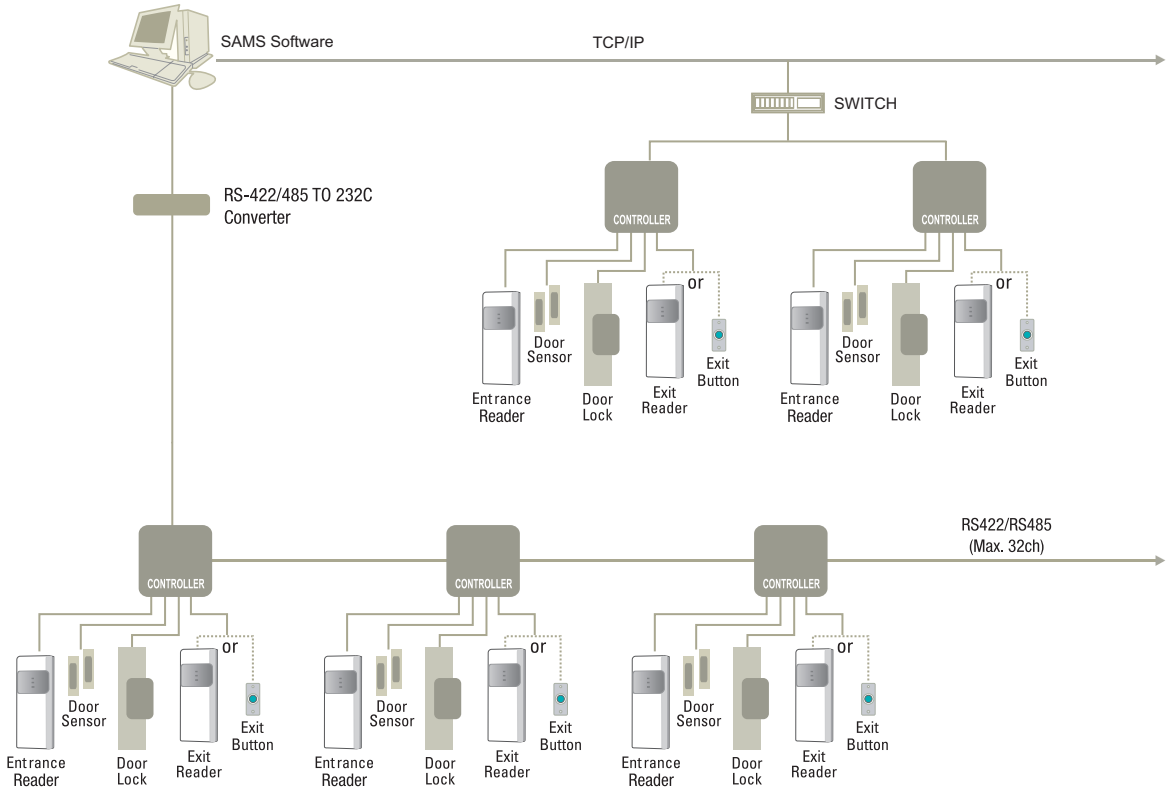
Standalone Configuration



Model

SSA-R20x0/R20x1	Fingerprint recognition, Proximity / Smart card
SSA-R2000/2001	Proximity / Smart card, PIN
SSA-R1100/1101	Proximity / Smart card
SSA-R1000/1001	Proximity / Smart card

Network Configuration



Access Control System Terms & Features

Proximity Card

Proximity cards, or “prox cards”, are read-only devices that are encoded once and are then used to transmit a fixed numeric value to a reader in the 125KHz frequency band. Proximity cards do not have to be inserted or swiped through a reader to be read. They only need to be brought within range of the reader.

Smart Card

Smart cards are similar to proximity cards, but they operate in the 13.56MHz frequency band. 13.56MHz cards offer unique and secure ID codes and more memory than traditional proximity cards. The key benefit of Smart cards is that data can be written as well as read to/from the card, making them more versatile.

MIFARE

MIFARE is the NXP-owned trademark of the most widely installed contactless smart card technology in the world. The MIFARE technology is based upon the ISO/IEC 14445 type A 13.56MHz contactless smart card standard.

Fingerprint Reader

A fingerprint reader identifys and compares unique patterns found on an individual’s fingertip with patterns stored on a reader or standalone controller.



Vandal-Resistant Reader and Standalone Controller

Vandal resistant products are designed to be installed in a location and application where they may be subject to vandalism or tampering, as in the case of pedestrian crossing the products, or fraudulent or unauthorized use.



AWG (American Wire Gauge)

AWG is a standardized wire gauge system used in US and other areas. In access control systems, cables between AWG 18 to AWG 24 are widely used.

SSA-S2000/S2000V/S1000/S1000V

Stand Alone Single Door Controller
Proximity & PIN Access Controller
Proximity & Access Controller

Key Features

SSA-S2000/S2000V

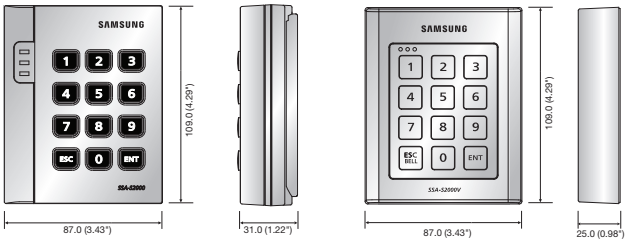
- 125KHz proximity & PIN access controller
- 512 users
- 1ea of external reader port for exit : 26bit wiegand
- All I/Os and operation time programmable by keypad
- 5 independent inputs and 4 form C outputs
- Keypad locks and sends alarm after multiple wrong codes are entered.
- Toggle mode for door opening / closing
- Safe (default) / Secure mode available
- Lock control by door sensor
- Dual tamper switches
- Chime bell output
- 26bit wiegand output for reader mode
- SSA-S2000V : Vandal-resistant / Weatherproof (IP68)

SSA-S1000/S1000V

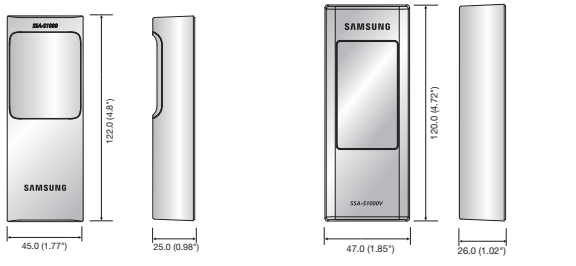
- 125KHz proximity access controller
- 512 users
- Direct control of door lock
- Power fail safe or power fail secure locks selectable
- Solid epoxy potted
- SSA-S1000 : Weatherproof (IP66)
- SSA-S1000V : Vandal-resistant / Weatherproof (IP68)

Dimensions

Unit : mm (inch)



SSA-S2000 SSA-S2000V



SSA-S1000 SSA-S1000V



SSA-S2000 SSA-S2000V SSA-S1000 SSA-S1000V

Technical Specifications

	SSA-S2000	SSA-S2000V
USER / EVENT BUFFERS		
Total ID Users	512 users	
AUTHENTICATION		
Method	RFID, PIN	
INPUT / OUTPUT		
Reader Port	1ea (26bit wiegand for exit)	
Input Port	5ea (Exit button, Door sensor, Aux#1, Aux#2, Aux#3)	
Output Port	2ea (2 form-C relay output / 12V ~ 18V DC, Rating max. 2A) 1ea (Chime bell output / 5V DC, Rating max. 500mA) 1ea (TTL output / 5V DC, Rating max. 20mA)	
LED Indicator	3 LED indicator (Red, Green, Yellow)	
Beeper	Piezo buzzer	
OPERATIONAL		
Frequency / Format	125KHz / Samsung	
Keypad	12key numeric keypad with back lighting	
ENVIRONMENTAL		
Operating Temperature	-30°C ~ +50°C (-22°F ~ +122°F)	
Operating Humidity	Less than 90% RH	
Ingress Protection	N/A	IP68
Vandal-Resistant	N/A	Yes
ELECTRICAL		
Input Voltage / Current	12V DC / Max. 110mA	
Power Consumption	Max. 1.5W	
MECHANICAL		
Color / Material	Silver and black / Polycarbonate	Silver and black / Polycarbonate & aluminum die casting
Dimensions (WxHxD)	87.0 x 109.0 x 31.0mm (3.43" x 4.29" x 1.22")	87.0 x 109.0 x 25.0mm (3.43" x 4.29" x 0.98")
Weight	220g (0.49 lb)	440g (0.97 lb) ±10g (0.02 lb)

	SSA-S1000	SSA-S1000V
USER / EVENT BUFFERS		
Total ID Users	512 users	
AUTHENTICATION		
Method	RFID	
INPUT / OUTPUT		
Input Port	3ea (Exit button, Door sensor, Lock type select)	
Output Port	2ea (TR output / 12 ~ 18V DC, Rating max. 2A lock output)	
LED Indicator	2LED indicator (Red, Green)	
Beeper	Piezo buzzer	
OPERATIONAL		
Frequency / Format	125KHz / Samsung	
ENVIRONMENTAL		
Operating Temperature	-20°C ~ +50°C (-4°F ~ +122°F)	
Operating Humidity	Less than 90% RH	
Ingress Protection	IP66	IP68
Vandal-Resistant	N/A	Yes
ELECTRICAL		
Input Voltage / Current	12V DC / Max. 110mA	
Power Consumption	Max. 1.5W	
MECHANICAL		
Color / Material	Silver and black / Polycarbonate	Silver and black / Polycarbonate & aluminum die casting
Dimensions (WxHxD)	45.0 x 122.0 x 25.0mm (1.77" x 4.8" x 0.98")	47.0 x 120.0 x 26.0mm (1.85" x 4.72" x 1.02")
Weight	130g (0.29 lb)	250g (0.55 lb) ±10g (0.02 lb)

SSA-S2100/S2101

Stand Alone Single Door Controller
Proximity / Smart Card & PIN,
Time & Attendance Access Controller



Key Features

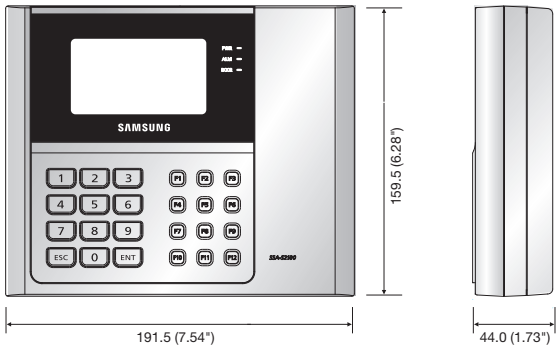
- 125KHz proximity / 13.56MHz contact-less smart card reader and PIN
- Dual function for access control and time & attendance
- 10,000 / 20,000 ID users and 20,000 / 10,000 event buffers (Selectable)
- 4 level door open time setting by individual ID
- Time schedules setting by individual ID, Input port, Output port and reader mode
- Network communication via RS-232, RS-485 and built-in TCP/IP
- 4 input, 4 output (2 relay output)
- 26bit / 34bit wiegand input / output
- User name display on LCD
- 2 man operation mode / Duress alarm function
- Graphic LCD with multi language display

Technical Specifications

	SSA-S2100	SSA-S2101
USER / EVENT BUFFERS		
Total ID Users	Up to 20,000 users	
Event Buffers	Up to 20,000 event buffers	
AUTHENTICATION		
Method	RFID, PIN	
INPUT / OUTPUT		
Reader Port	1ea (26/34bit wiegand, 4/8bit burst for PIN for anti pass-back)	
Input Port	4ea (Exit button, Door sensor, Aux#1, Aux#2)	
Output Port	2ea (2 form-C relay output / 12V ~ 18V DC, Rating max. 2A) 1ea (TTL output / 5V DC, Rating max. 20mA) 1ea (26/34bit wiegand out data 0,1), 26bit wiegand : SSA-S2100 34bit wiegand : SSA-S2101	
LED Indicator	3 LED indicator (Red, Green, Yellow)	
Beeper	Piezo buzzer	
OPERATIONAL		
Frequency / Format	125KHz / Samsung	13.56MHz / MIFARE
On Screen Display	English, French, German, Spanish, Italian, Russian, Turkish, Chinese, Korean	
Voice Out	English, French, German, Spanish, Italian, Russian, Turkish, Chinese, Korean	
LCD	Graphic LCD (128 x 64dots), 72.5 x 39.5mm (2.85" x 1.56") view area	
Keypad	24key numeric keypad with back lighting (12 function key included)	
Communication	TCP/IP, RS-232, RS-422, RS-485 (Max. 32CH)	
ENVIRONMENTAL		
Operating Temperature	0°C ~ +50°C (+32°F ~ +122°F)	
Operating Humidity	Less than 90% RH	
ELECTRICAL		
Input Voltage / Current	12V DC / Max. 420mA	
Power Consumption	Max. 5.0W	
MECHANICAL		
Color / Material	Silver and black / Polycarbonate	
Dimensions (WxHxD)	191.5 x 159.5 x 44.0mm (7.54" x 6.28" x 1.73")	
Weight	710g (1.57 lb)	
TIME SCHEDULES		
Time Code	10	
Time Interval	5	
Holiday Code	10	
Holiday	100	

Dimensions

Unit : mm (inch)



SSA-S3010/S3020/S3040

Fingerprint Recognition,
Proximity / Smart Card & Pin,
Time & Attendance Access Controller

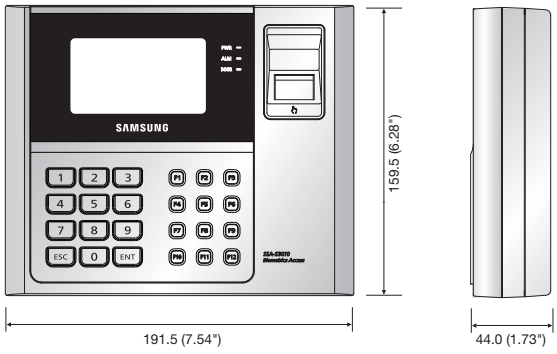


Key Features

- 125KHz proximity / 13.56MHz contact-less smart card, PIN and fingerprint recognition
- Dual function for access control and time & attendance
- 1 : 1 verification and 1 : N identification storable 2 fingerprint templates
- Fingerprint quality display
- 1,000 / 2,000 / 4,000 fingerprint users
- 10,000 / 20,000 ID users and 20,000 / 10,000 event buffers (selectable)
- 4 level door open time setting by individual ID
- Time schedules setting by individual ID, input port, output port and reader mode
- Network communication via RS-232, RS-485 and built-in TCP/IP
- 4 input, 4 output (2 relay output)
- 26bit / 34bit wiegand input / output
- User name display on LCD
- 2 man operation mode / duress alarm function
- Graphic LCD with multi language display
- Cut off check for input devices

Dimensions

Unit : mm (inch)



Technical Specifications

	SSA-S3010/S3020/S3040
USER / EVENT BUFFERS	
Total ID Users	Up to 20,000 users
Fingerprint Users	1,000 : SSA-S3010 / 2,000 : SSA-S3020/ 4,000 : SSA-S3040
Event Buffers	Up to 20,000 event buffers
AUTHENTICATION	
Method	RFID, PIN, Fingerprint
Verification / Identification Time (Fingerprint)	Less than 1sec / Less than 2sec
INPUT / OUTPUT	
Reader Port	1ea (26/34bit wiegand, 4/8bit burst for PIN for anti pass-back)
Input Port	4ea (Exit button, Door sensor, Aux#1, Aux#2)
Output Port	2ea (2 form-C relay output / 12V ~ 18V DC, Rating max. 2A) 1ea (TTL output / 5V DC, Rating max. 20mA) 1ea (26/34bit wiegand out data 0,1), 26bit wiegand : SSA-S3010/S3020/S3040
LED Indicator	3 LED indicator (Red, Green, Yellow)
Beeper	Piezo buzzer
OPERATIONAL	
Frequency / Format	125KHz / Samsung
On Screen Display	English, French, German, Spanish, Italian, Russian, Turkish, Chinese, Korean
Voice Out	English, French, German, Spanish, Italian, Russian, Turkish, Chinese, Korean
LCD	Graphic LCD (128 x 64dots), 72.5 x 39.5mm (2.85" x 1.56") view area
Keypad	24key numeric keypad with back lighting (12 function key included)
Communication	TCP/IP, RS-232, RS-422, RS-485 (Max. 32CH)
ENVIRONMENTAL	
Operating Temperature	0°C ~ +50°C (+32°F ~ +122°F)
Operating Humidity	Less than 90% RH
ELECTRICAL	
Input Voltage / Current	12V DC / Max. 540mA
Power Consumption	Max. 6.5W
MECHANICAL	
Color / Material	Silver and black / Polycarbonate
Dimensions (WxHxD)	191.5 x 159.5 x 44.0mm (7.54" x 6.28" x 1.73")
Weight	760g (1.68 lb)
FINGERPRINT MODULE SPECIFICATIONS	
Resolution	500dpi
Capture Image Size	412 x 302pixels
Extraction Image Size	260 x 300pixels
Sensing Area	13 x 15.2mm
Scanner	High quality optical sensor
FAR	0.001%
FRR	0.1%
ESD	15KV
Verification Time	Less than 1sec
Identification Time	Less than 2sec
TIME SCHEDULES	
Time Code	10
Time Interval	5
Holiday Code	10
Holiday	100

SSA-R1000/R1001 R1100/R1101

Wiegand Compatible Reader
Proximity / Smart Card



SSA-R1000/R1001



SSA-R1100/R1101

Key Features

- 125KHz proximity / 13.56MHz contact-less smart card
- 26/34bit wiegand output format
- External LED control
- External buzzer control
- Indoor / Outdoor operation
- Solid epoxy potted
- Reverse polarity protection
- Weatherproof (IP66)

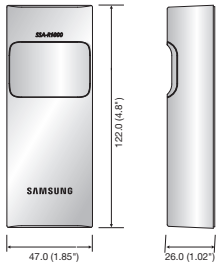
Technical Specifications

	SSA-R1000	SSA-R1001
AUTHENTICATION		
Method	RFID, PIN	
INPUT / OUTPUT		
Input Port	2ea (External LED control, External buzzer control)	
Output Port	26bit wiegand	34bit wiegand
LED Indicator	2 LED indicator (Red, Green)	
Beeper	Piezo buzzer	
OPERATIONAL		
Frequency / Format	125KHz / Samsung	13.56MHz / MIFARE
ENVIRONMENTAL		
Operating Temperature	-30°C ~ +50°C (-22°F ~ +122°F)	-25°C to +50°C (-13°F ~ +122°F)
Operating Humidity	Less than 90% RH	
ELECTRICAL		
Input Voltage / Current	12V DC / Max. 120mA	12V DC / Max. 80mA
Power Consumption	Max. 1.5W	Max. 1.0W
MECHANICAL		
Color / Material	Silver and black / Polycarbonate	
Dimensions (WxHxD)	47.0 x 122.0 x 26.0mm (1.85" x 4.8" x 1.02")	
Weight	135g (0.3 lb)	140g (0.31 lb)

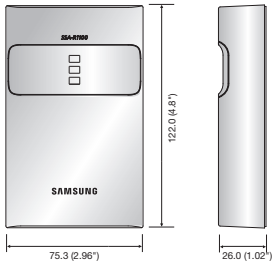
Dimensions

Unit : mm (inch)

SSA-R1000/R1001/R1003



SSA-R1100/R1101/R1103



	SSA-R1100	SSA-R1101
AUTHENTICATION		
Method	RFID, PIN	
INPUT / OUTPUT		
Input Port	2ea (External LED control, External buzzer control)	
Output Port	26bit wiegand	34bit wiegand
LED Indicator	2 LED indicator (Red, Green)	
Beeper	Piezo buzzer	
OPERATIONAL		
Frequency / Format	125KHz / Samsung	13.56MHz / MIFARE
ENVIRONMENTAL		
Operating Temperature	-30°C ~ +50°C (-22°F ~ +122°F)	-25°C to +50°C (-13°F ~ +122°F)
Operating Humidity	Less than 90% RH	
ELECTRICAL		
Input Voltage / Current	12V DC / Max. 120mA	12V DC / Max. 80mA
Power Consumption	Max. 1.5W	Max. 1.0W
MECHANICAL		
Color / Material	Silver and black / Polycarbonate	
Dimensions (WxHxD)	75.3 x 122.0 x 26.0mm (2.96" x 4.8" x 1.02")	
Weight	150g (0.32 lb)	155g (0.34 lb)

SSA-R1000V/R1001V R1100V/R1101V

Wiegand Compatible Reader
Vandal-Resistant
Proximity / Smart Card Reader



SSA-R1000V/R1001V



SSA-R1100V/R1101V

Key Features

- 125KHz proximity / 13.56MHz contact-less smart card
- 26/34bit wiegand output format
- External LED control
- External buzzer control
- Indoor / Outdoor operation
- Solid epoxy potted
- Reverse polarity protection
- Vandal-resistant & weather proof (IP68)

Technical Specifications

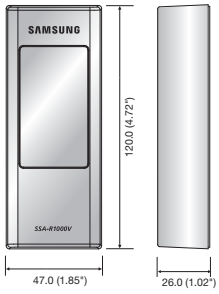
	SSA-R1000V	SSA-R1001V
AUTHENTICATION		
Method	RFID	
INPUT / OUTPUT		
Input Port	2ea (External LED control, External buzzer control)	
Output Port	26bit wiegand	34bit wiegand
LED Indicator	3 LED indicator (Red, Green, Yellow)	
Beeper	Piezo buzzer	
OPERATIONAL		
Frequency / Format	125KHz / Samsung	13.56MHz / MIFARE
ENVIRONMENTAL		
Operating Temperature	-30°C ~ +50°C (-22°F ~ +122°F)	-25°C ~ +50°C (-13°F ~ +122°F)
Operating Humidity	Less than 90% RH	
Ingress Protection	IP68	
Vandal-Resistant	Yes	
ELECTRICAL		
Input Voltage / Current	12V DC / Max. 120mA	12V DC / Max. 150mA
Power Consumption	Max. 1.5W	Max. 1.0W
MECHANICAL		
Color / Material	Silver and black / Polycarbonate & aluminum die casting	
Dimensions (WxHxD)	47.0 x 120.0 x 26.0mm (1.85" x 4.72" x 1.02")	
Weight	250g (0.55 lb) ±10g (0.02 lb)	260g (0.57 lb) ±10g (0.02 lb)

	SSA-R1100V	SSA-R1101V
AUTHENTICATION		
Method	RFID	
INPUT / OUTPUT		
Input Port	2ea (External LED control, External buzzer control)	
Output Port	26bit wiegand	34bit wiegand
LED Indicator	3 LED indicator (Red, Green, Yellow)	
Beeper	Piezo buzzer	
OPERATIONAL		
Frequency / Format	125KHz / Samsung	13.56MHz / MIFARE
ENVIRONMENTAL		
Operating Temperature	-30°C ~ +50°C (-22°F ~ +122°F)	-25°C ~ +50°C (-13°F ~ +122°F)
Operating Humidity	Less than 90% RH	
Ingress Protection	IP68	
Vandal-Resistant	Yes	
ELECTRICAL		
Input Voltage / Current	12V DC / Max. 120mA	12V DC / Max. 150mA
Power Consumption	Max. 1.5W	Max. 1.0W
MECHANICAL		
Color / Material	Silver and black / Polycarbonate & aluminum die casting	
Dimensions (WxHxD)	75.3 x 120.0 x 26.0mm (2.96" x 4.72" x 1.02")	
Weight	340g (0.75 lb) ±10g (0.02 lb)	360g (0.79 lb) ±10g (0.02 lb)

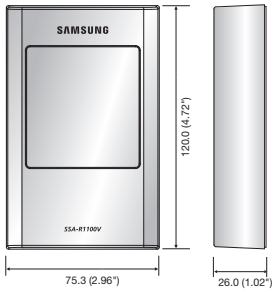
Dimensions

Unit : mm (inch)

SSA-R1000V/R1001V



SSA-R1100V/R1101V



SSA-R2000/R2001 R2000V/R2001V

Wiegand Compatible Reader
Proximity / Smart Card / PIN Reader
Vandal-Resistant / Proximity / Smart Card / PIN Reader



SSA-R2000/R2001



SSA-R2000V/R2001V

Key Features

SSA-R2000/R2001

- 125KHz proximity / 13.56MHz contact-less smart card / EM and PIN reader
- 26bit wiegand, 4/8bit burst for PIN output format (Selectable)
- 12 numeric keypads with back lighting
- External LED control
- External buzzer control
- Tamper switch
- Wall mount (US, EU, Asian gang box size)
- Reverse polarity protection
- Compatible controller

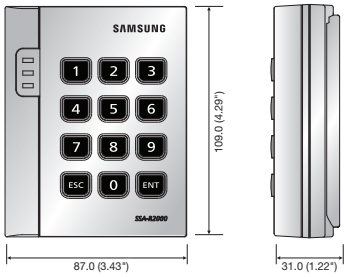
SSA-R2000V/R2001V

- 125KHz Proximity / 13.56MHz contact-less smart card and PIN reader
- Vandal-resistant & weather proof (IP68)
- Longer cable for flexible application (1m)
- 26/34bit wiegand, 8bit burst for PIN output format
- 12 numeric keypads with back lighting
- External LED control
- External buzzer control
- Tamper switch
- Wall mount (US, EU, Asian gang box size)
- Reverse polarity protection
- Compatible controller

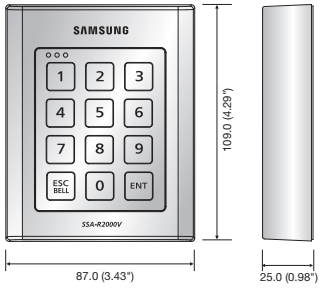
Dimensions

Unit : mm (inch)

SSA-R2000/R2001/R2003



SSA-R2000V/R2001V



Technical Specifications

	SSA-R2000	SSA-R2001
AUTHENTICATION		
Method	RFID, PIN	
INPUT / OUTPUT		
Input Port	2ea (External LED control, External buzzer control)	
Output Port	26bit wiegand, 4/8bit burst for PIN (Selectable)	34bit wiegand, 4/8bit burst for PIN (Selectable)
LED Indicator	3 LED indicator (Red, Green, Yellow)	
Beeper	Piezo buzzer	
OPERATIONAL		
Frequency / Format	125KHz / Samsung	13.56MHz / MIFARE
Keypad	12key numeric keypad with back lighting	
ENVIRONMENTAL		
Operating Temperature	-30°C ~ +50°C (-22°F ~ +122°F)	-25°C to +50°C (-13°F ~ +122°F)
Operating Humidity	Less than 90% RH	
ELECTRICAL		
Input Voltage / Current	12V DC / Max. 95mA	12V DC / Max. 75mA
Power Consumption	Max. 1.2W	Max. 1.0W
MECHANICAL		
Color / Material	Silver and black / Polycarbonate	
Dimensions (WxHxD)	87.0 x 109.0 x 31.0mm (3.43" x 4.29" x 1.22")	
Weight	160g (0.49 lb)	

	SSA-R2000V	SSA-R2001V
AUTHENTICATION		
Method	RFID, PIN	
INPUT / OUTPUT		
Input Port	2ea (External LED control, External buzzer control)	
Output Port	26bit wiegand, 4/8bit burst for PIN (Selectable)	34bit wiegand, 4/8bit burst for PIN (Selectable)
LED Indicator	3 LED indicator (Red, Green, Yellow)	
Beeper	Piezo buzzer	
OPERATIONAL		
Frequency / Format	125KHz / Samsung	13.56MHz / MIFARE
ENVIRONMENTAL		
Operating Temperature	-20°C ~ +50°C (-4°F ~ +122°F)	
Operating Humidity	100%	
Ingress Protection	IP68	
Vandal-Resistant	Yes	
ELECTRICAL		
Input Voltage / Current	12V DC / Max. 100mA	
Power Consumption	Max. 1.2W	Max. 1.0W
MECHANICAL		
Color / Material	Silver and black / Polycarbonate & aluminum die casting	
Dimensions (WxHxD)	87.0 x 109.0 x 25.0mm (3.43" x 4.29" x 0.98")	
Weight	350g (0.77 lb) ±10g (0.02 lb)	

SSA-R2010/R2020/R2040
R2011/R2021/R2041

Wiegand Compatible Reader
Fingerprint Recognition,
Proximity / Smart Card Reader



Key Features

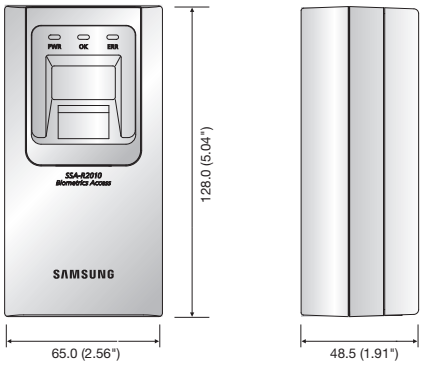
- 125KHz proximity / 13.56MHz contact-less smart card and fingerprint recognition
- 1 : 1 verification and 1 : N identification storable 2 fingerprint templates
- 1,000 / 2,000 / 4,000 fingerprint users and 10,000 ID users
- Auto touch sensor for fingerprint only identification
- Operating mode selectable by individual ID (RF only / Fingerprint only / RF + Fingerprint)
- Network communication via RS-232, RS-485, TCP/IP
- Master card for user registration and deletion
- 26bit / 34bit wiegand output
- Tamper switch

Technical Specifications

	SSA-R2010/R2020/R2040	SSA-R2011/R2021/R2041
USER / EVENT BUFFERS		
Fingerprint Users	1,000 : SSA-R2010/R2011 / 2,000 : SSA-R2020/R2021 / 4,000 : SSA-R2040/R2041	
AUTHENTICATION		
Method	RFID, Fingerprint	
Verification / Identification Time (Fingerprint)	Less than 1sec / Less than 2sec	
INPUT / OUTPUT		
Reader Port	1ea (26bit / 34bit wiegand)	
Input Port	3ea (External LED control, External buzzer control, Operating mode (RF/RF+ Finger) control)	
Output Port	2ea [Error- output, OK - output (Open collector output)]	
	26bit wiegand	34bit wiegand
LED Indicator	3 LED indicator (Red, Green, Yellow)	
Beeper	Piezo buzzer	
OPERATIONAL		
Frequency / Format	125KHz / Samsung	13.56MHz / MIFARE
Voice Out	English, French, German, Spanish, Italian, Russian, Turkish, Chinese, Korean	
Communication	TCP/IP, RS-232, RS-485	
ENVIRONMENTAL		
Operating Temperature	0°C ~ +50°C (+32°F ~ +122°F)	
Operating Humidity	Less than 90% RH	
ELECTRICAL		
Input Voltage / Current	12V DC / Max. 290mA	12V DC / Max. 310mA
Power Consumption	Max. 3.5W	Max. 3.8W
MECHANICAL		
Color / Material	Silver and black / Polycarbonate	
Dimensions (WxHxD)	65.0 x 128.0 x 48.5mm (2.56" x 5.04" x 1.91")	
Weight	240g (0.53 lb)	
FINGERPRINT MODULE SPECIFICATIONS		
Resolution	500dpi	
Capture Image Size	412 x 302pixels	
Extraction Image Size	260 x 300pixels	
Sensing Area	13 x 15.2mm	
Scanner	High quality optical sensor	
FAR	0.001%	
FRR	0.1%	
ESD	15KV	
Verification Time	Less than 1sec	
Identification Time	Less than 2sec	

Dimensions

Unit : mm (inch)



SSA-C100/C200/C110/C120/X500

Proximity Card & Key Tag / Smart Card / Fingerprint Scanner

Key Features

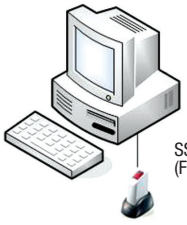
SSA-C100/C200/C110/C120

- 125KHz / passive type : SSA-C100/C110/C120
- 13.56MHz / passive type : SSA-C200
- ISO credit card size and thickness : SSA-C100/C200
- Clamshell type : SSA-C110
- Key tag : SSA-C120



SSA-X500

- Compact and elegant design, which is more convenient to use
- Excellent product durability that assures a long life
- Provides USB interface



SSA-X500
(Fingerprint Scanner)



SSA-C100/C200 SSA-C110



SSA-C120



SSA-X500

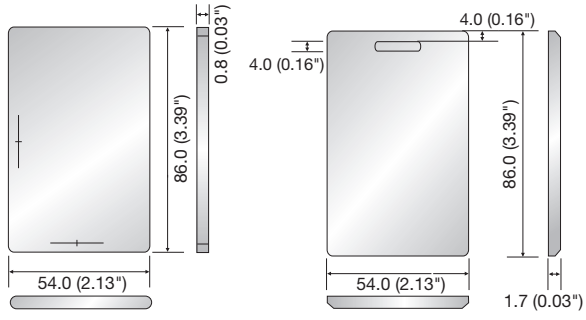
Technical Specifications

	SSA-C100	SSA-C200	SSA-C110	SSA-C120
OPERATIONAL				
Frequency / Format	125KHz / Samsung	13.56MHz / MIFARE	125KHz / Samsung	125KHz / Samsung
Encoding	Compatible with PSK type of 125KHz	Compatible with ISO14443 type A 13.56MHz	Compatible with PSK type of 125KHz	Compatible with PSK type of 125KHz
ENVIRONMENTAL				
Operating Temperature	-30°C ~ +65°C (-22°F ~ +149°F)			
Operating Humidity	Less than 90% RH			
MECHANICAL				
Color / Material	PVC	PVC	ABS	ABS
Dimensions (WxHxD)	54.0 x 0.8 x 86.0mm (2.13" x 0.03" x 3.39")	54.0 x 0.8 x 86.0mm (2.13" x 0.03" x 3.39")	54.0 x 1.7 x 86.0mm (2.13" x 0.03" x 3.39")	46.0 x 6.0 x 28.0mm (1.81" x 0.24" x 1.1")
Weight	5.5g (0.01 lbs)	5.5g (0.01 lbs)	9g (0.02 lbs)	4g (0.01 lbs)

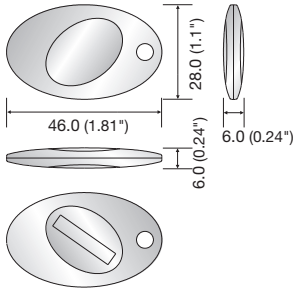
	SSA-X500
Interface Type	USB
External Interface Spec.	USB 1.1
Fingerprint Recognition Sensor	OPU01M
Resolution (DPI)	500 DPI
Dimensions (WxHxD)	25.3 x 40.7 x 67.7mm (1" x 1.6" x 2.67")
FINGERPRINT MODULE SPECIFICATIONS	
Resolution	500dpi
Capture Image Size	412 x 302pixels
Extraction Image Size	260 x 300pixels
Sensing Area	13 x 15.2mm
Scanner	High quality optical sensor
FAR	0.001%
FRR	0.1%
ESD	15KV
Verfication Time	Less than 1sec
Identification Time	Less than 2sec

Dimensions

Unit : mm (inch)



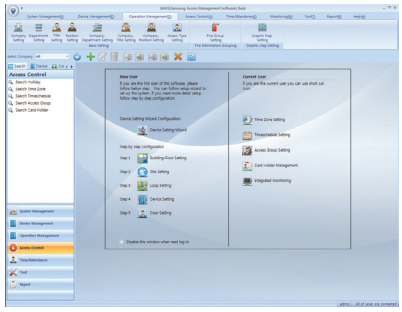
SSA-C100/C200 SSA-C110



SSA-C120

SSA-M1000/M1100

SAMS (Samsung Access Management Software) Basic / Basic Lite

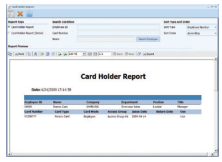


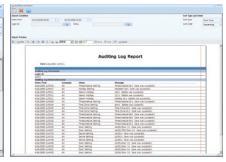
Key Features

- Supports multiple site
- Supports multi language
- Dynamic management function for card holder and ID
- Graphic map
- Various type of access control reports
- Various type of export and conversion
- Various type of options
- Easy setting wizard
- Well balloon tooltips to help user
- User defined integrated monitoring
- Dynamic management features for personal history
- Distributed processing
- Supports mass storage database
- Applies latest UI

Various Types of Report

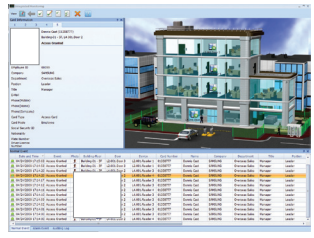
SAMS Basic supports various reports such as card holder information report, card holder alarm status report, access status report, report of card holder's authority for each of the door and card holder. Conversion or transmission function is available for all the search / output function. User may export the data in excel or text form. In such case, it can be useful to integrate with other software such as Time & Attendance, Payment, and ERP. Also report itself may be exported as Excel or TEXT, PDF, RTF, XLS, HTML, and TIF files .





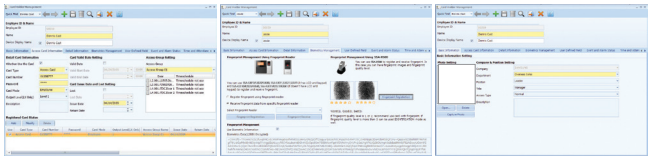
User Definition Integrated Monitoring

Administrator may change how to view integrate monitoring screen by simple drag & drop method. The most convenience type of screen may be set for individual user. Also the information on status of event and alarm can be defined by user. Multiple monitors are supported.



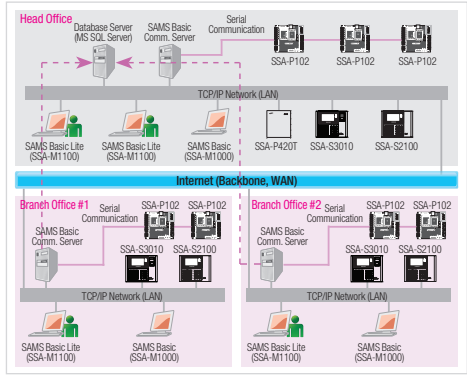
Management for Card Holder and Multiple ID

User can store various information of card holders. Administrator may issue multiple ID card including a vehicle card for single card holder.



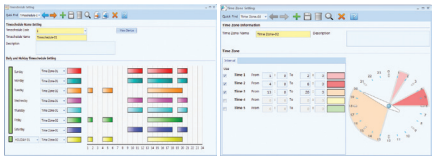
Server / Client Configuration

SAMS Basic supports server & client network configuration. SSA-M1000 is a server can add / delete controller or control panel. SSA-M1100 is a client supports all function as a server but does not support add / delete function for controller and control panel.



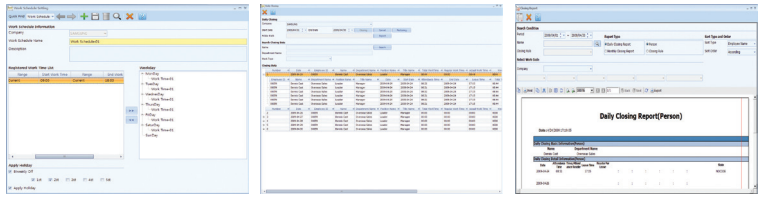
Time Schedule Management

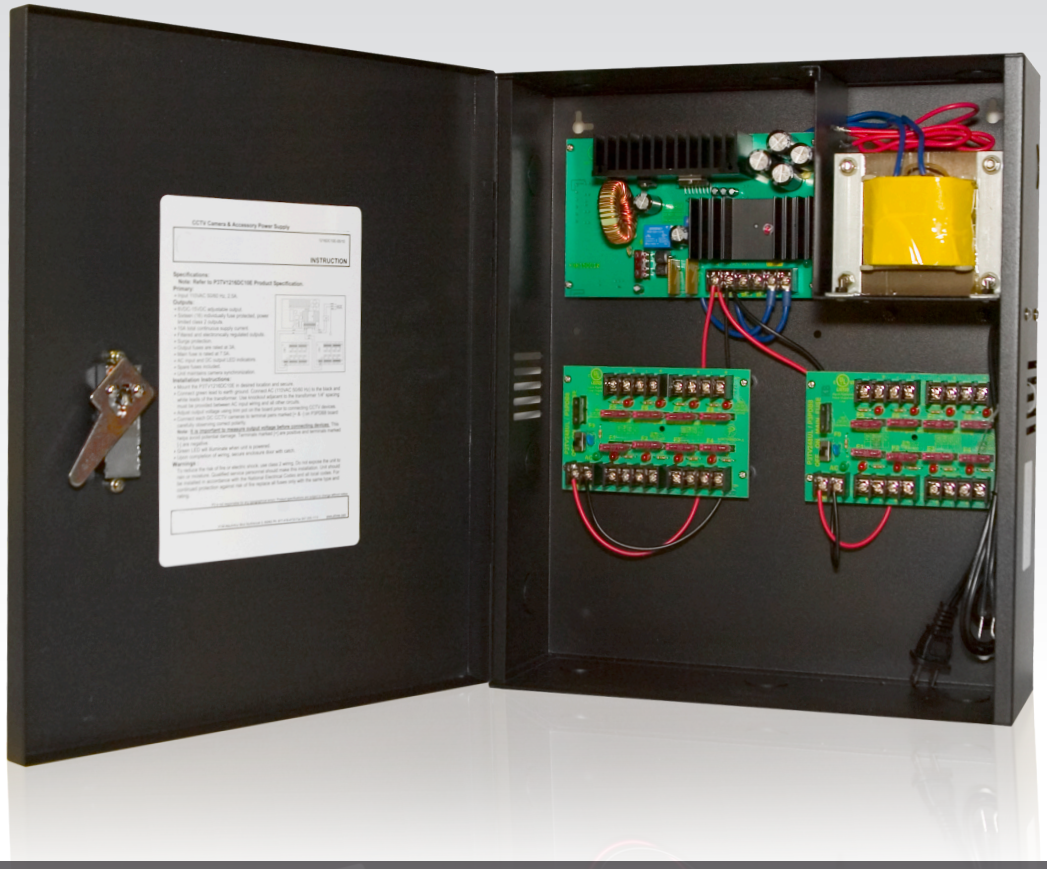
Using time schedule management, 24 hours may be divided into 5 different zones to manage access control of each doors, input, and output. Zones may applied differently for days, weeks up to 10 ~ 15 different time schedules depending on the access controller. Various colors and clock makes it easy and simple to set.



Time & Attendance Management

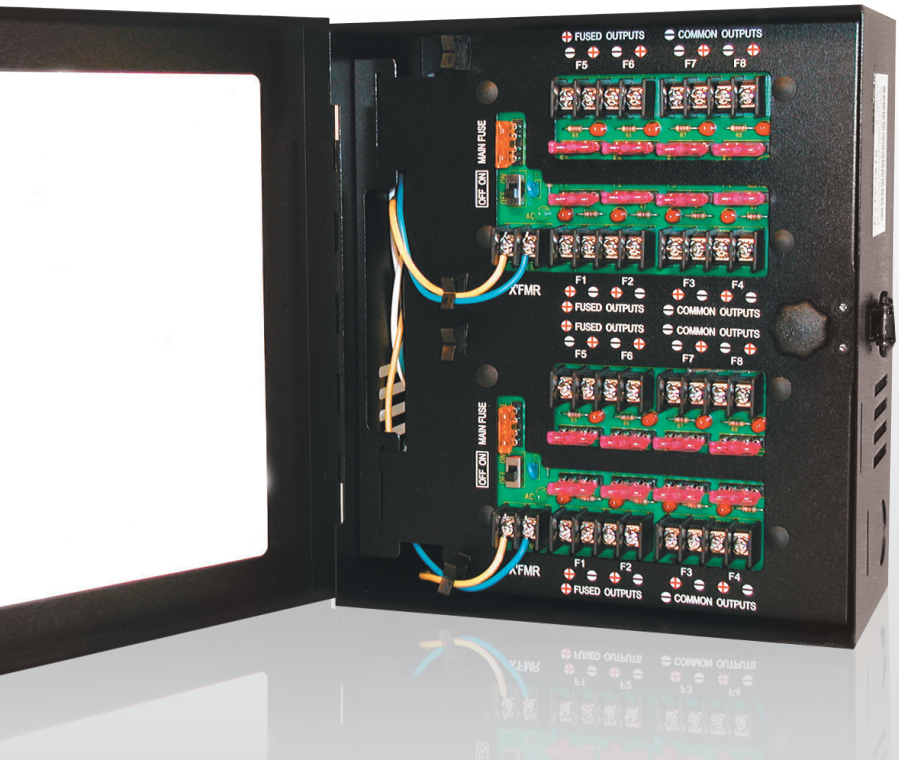
Using in/out event data, administrator is able to manage time and attendance such as lateness, Searching, Night duty, Dispatch, Absence and holiday.





POWER SUPPLY

Samsung Total Security Solutions



PWR-24AC-4-4UL

4 Camera 24VAC 4Amp Power Supply



The PWR-24AC-4-4UL is a UL listed CCTV power center engineered to manage remote camera and accessory power requirements. The PWR-24AC-4-4UL distribution module is designed with 4 individually fused outputs for powering up to 4 CCTV cameras and accessories. It will provide 24Volts AC via distribution to four fused outputs with a total of 4.0 Amps continuous supply current. The PWR-24AC-4-4UL power center is housed in a premium heavy gauge metal enclosure.

Key Features

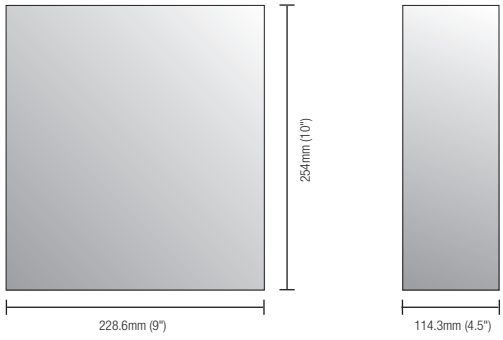
- Convenient screw and terminal and fuse access
- AC power LED indicator
- Includes transformer and spare fuses
- Multiple knockouts to accommodate various wiring configurations
- Uses easy to find automotive style fuses

Technical Specifications

PWR-24AC-4-4UL	
FEATURES	
Convenient screw and terminal and fuse access	
Separation panel between transformers and output access	
AC power LED indicator	
Power ON/OFF switch	
Individual LED's for each fused output	
Lockable heavy gauge metal enclosure	
Double coated polyurethane finish	
Multiple knockouts to accommodate various wiring configurations	
Uses easy to find automotive style fuses	
Includes transformer and spare fuses	
SPECIFICATIONS	
Input	115VAC 50/60 HZ; 0.9 Amps
Output	fuses are rated at 3 Amps
Four 24VAC individually fused outputs	
Fuse	5 Amps
4 Amps 100 VA supply current at 70°F	
Unit maintains camera synchronization	
Transformer	110VAC/24VAC, 100VA
Enclosure Dimensions	254 x 228.6 x 114.3mm (10" x 9" x 4.5")
UL listed	

Dimensions

Unit : mm (inch)



PWR-24AC-8-4UL

8 Camera 24VAC 4Amp Power Supply



The PWR-24AC-8-4UL is a UL listed CCTV power center engineered to manage remote camera and accessory power requirements. The PWR-24AC-8-4UL distribution module is designed with 8 individually fused outputs for powering up to 8 CCTV cameras and accessories. It will provide 24Volts AC via distribution to eight fused outputs with a total of 4.0 Amps continuous supply current. The PWR-24AC-8-4UL power center is housed in a premium heavy gauge metal enclosure.

Key Features

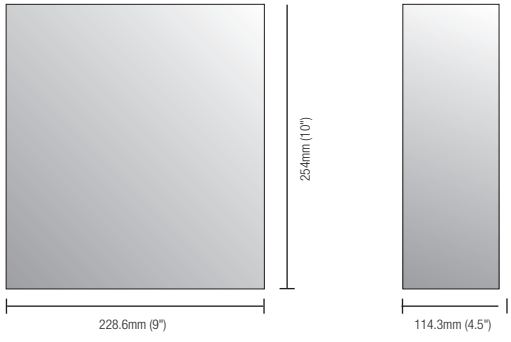
- Convenient screw and terminal and fuse access
- AC power LED indicator
- Includes transformer and spare fuses
- Multiple knockouts to accommodate various wiring configurations
- Uses easy to find automotive style fuses

Technical Specifications

PWR-24AC-8-4UL	
FEATURES	
Convenient screw and terminal and fuse access	
Separation panel between transformers and output access	
Power ON/OFF switch	
Individual LED's for each fused output	
Lockable heavy gauge metal enclosure	
Double coated polyurethane finish	
Multiple knockouts to accommodate various wiring configurations	
Uses easy to find automotive style fuses	
Includes transformer and spare fuses	
SPECIFICATIONS	
Input	115VAC 50/60 HZ; 0.9 Amps
Output	3 Amps
4 Amps 100 VA supply currents at 70°F	
Fuse	5 Amps
Eight 24VAC individually fused outputs	
Unit maintains camera synchronization	
Transformer	110VAC/24VAC, 100VA
Enclosure Dimensions	254 x 228.6 x 114.3mm (10" x 9" x 4.5")
UL listed	

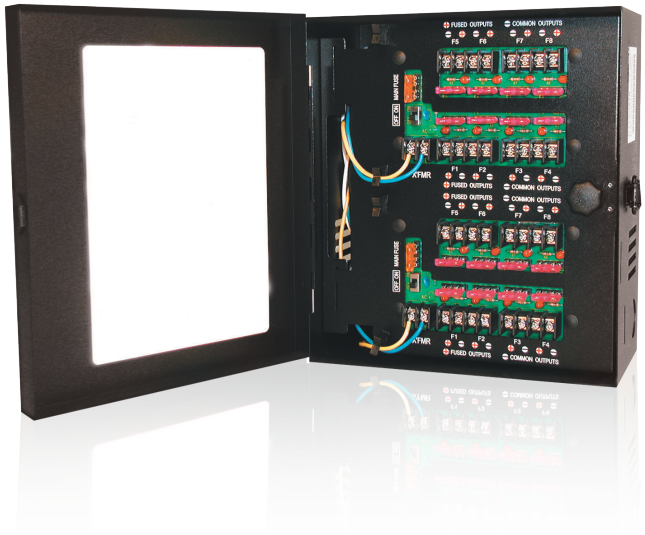
Dimensions

Unit : mm (inch)



PWR-24AC-16-8UL

16 Camera 24VAC 8Amp Power Supply



The PWR-24AC-16-8UL is a UL listed CCTV power center engineered to manage remote camera and accessory power requirements. The PWR-24AC-16-8UL distribution module is designed with 16 individually fused outputs for powering up to 16 CCTV cameras and accessories. It will provide 24Volts AC to sixteen fused outputs with a total of 8.0 Amps continuous supply current via two 4.0 Amp supplies. The PWR-24AC-16-8UL power center is housed in a premium heavy gauge metal enclosure.

Key Features

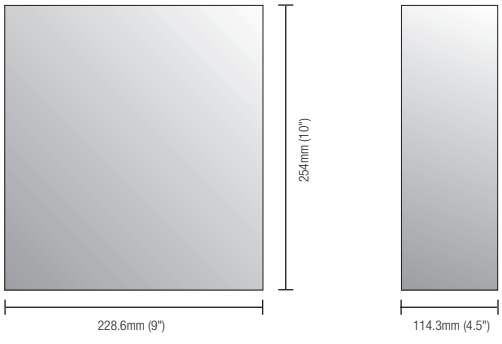
- Convenient screw and terminal and fuse access
- AC power LED indicator
- Includes transformer and spare fuses
- Lockable heavy gauge metal enclosure
- Uses easy to find automotive style fuses

Technical Specifications

PWR-24AC-16-8UL	
FEATURES	
Convenient screw and terminal and fuse access	
Separation panel between transformers and output access	
Power ON/OFF switch	
Individual LED's for each fused output	
AC power LED indicator	
Double coated polyurethane finish	
Multiple knockouts to accommodate various wiring configurations	
Uses easy to find automotive style fuses	
Includes transformer and spare fuses	
Lockable heavy gauge metal enclosure	
SPECIFICATIONS	
Input	115VAC 50/60 HZ; 1.8 Amps
Output	3 Amps
Two 4 Amp 100 VA supply currents at 70°F	
Fuse	5 Amps
Sixteen 24VAC individually fused outputs	
Unit maintains camera synchronization	
Transformers	Two (2) 110VAC/24VAC, 100VA
Enclosure Dimensions	254 x 228.6 x 114.3mm (10" x 9" x 4.5")
UL listed	

Dimensions

Unit : mm (inch)



PWR-24AC-8-7

8 Camera 24VAC 7.25Amp Power Supply



The PWR-24AC-8-7 is a CCTV power center engineered to manage remote camera and accessory power requirements. The PWR-24AC-8-7 distribution module is designed with 8 individually fused outputs for powering up to 8 CCTV cameras and accessories. It will provide 24 Volts AC via distribution to eight fused outputs with a total of 7.25 Amps continuous supply current. The PWR-24AC-8-7 power center is housed in a premium lockable heavy gauge metal enclosure.

Key Features

- Convenient screw and terminal and fuse access
- AC power LED indicator
- Includes transformer and spare fuses
- Multiple knockouts to accommodate various wiring configurations
- Uses easy to find automotive style fuses

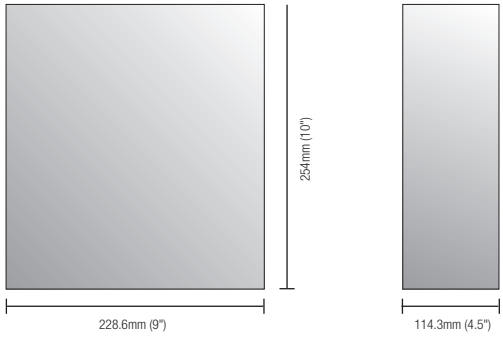
Technical Specifications

PWR-24AC-8-7	
FEATURES	
Convenient screw and terminal and fuse access	
AC power LED indicator	
Power ON/OFF switch	
Individual LED's for each fused output	
Separation panel between transformers and output access	
Double coated polyurethane finish	
Multiple knockouts to accommodate various wiring configurations	
Uses easy to find automotive style fuses	
Includes transformer and spare fuses	
Lockable heavy gauge metal enclosure	

SPECIFICATIONS	
Input	115VAC 50/60 HZ; 1.75 Amps
Output	3 Amps
7.25 Amps 175 VA supply current at 70°F	
Fuse	10 Amps
Eight 24VAC individually fused outputs	
Unit maintains camera synchronization	
Transformer	110/24VAC, 175VA
Enclosure Dimensions	254 x 228.6 x 114.3mm (10" x 9" x 4.5")

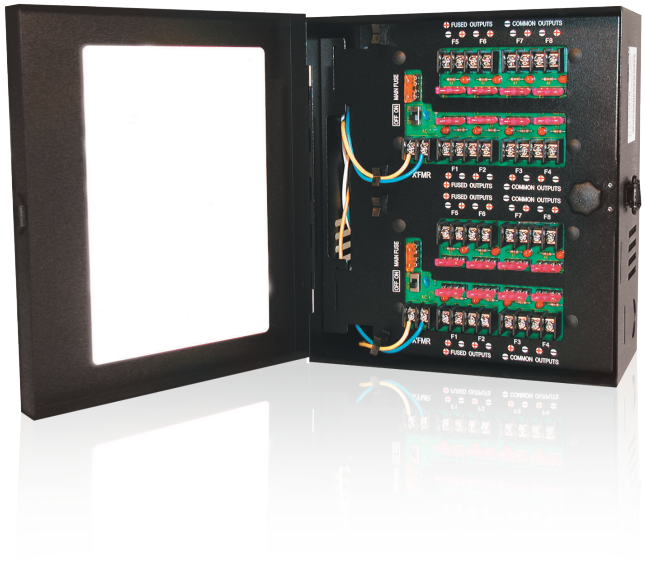
Dimensions

Unit : mm (inch)



PWR-24AC-16-14

16 Camera 24VAC 14.5Amp Power Supply



The PWR-24AC-16-14 is a CCTV power center engineered to manage/remote camera and accessory power requirements. The PWR-24AC-16-14 distribution module is designed with 16 individually fused outputs for powering up to 16 CCTV cameras and accessories.It will provide 24 Volts AC via distribution to sixteen fused outputs with a total of 14.5 Amps continuous supply current. The PWR-24AC-16-14 power center is housed in a premium lockable heavy gauge metal enclosure.

Key Features

- Convenient screw and terminal and fuse access
- AC power LED indicator
- Includes transformer and spare fuses
- Lockable heavy gauge metal enclosure
- Uses easy to find automotive style fuses

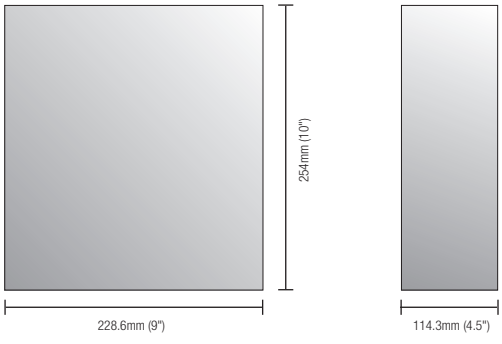
Technical Specifications

PWR-24AC-16-14	
FEATURES	
Convenient screw and terminal and fuse access	
Power ON/OFF switch	
Individual LED's for each fused output	
AC power LED indicator	
Double coated polyurethane finish	
Multiple knockouts to accommodate various wiring configurations	
Uses easy to find automotive style fuses	
Includes transformer and spare fuses	
Lockable heavy gauge metal enclosure	

SPECIFICATIONS	
Input	115VAC 50/60 HZ; 2.7 Amps
Output	5 Amps
14.5 Amps 350 VA supply currents at 70°F	
Fuse	15 Amps
Sixteen 24VAC individually fused outputs	
Unit maintains camera synchronization	
Transformers	(2) 110/24VA, 175VA
Enclosure Dimensions	254 x 228.6 x 114.3mm (10" x 9" x 4.5")

Dimensions

Unit : mm (inch)



PWR-15DC-4-2UL

4 Camera 6-15VDC 2.5Amp Power Supply



The PWR-15DC-4-2UL is a UL listed CCTV power center engineered to manage remote camera and accessory power requirements. The PWR-15DC-4-2UL distribution module is designed with 4 individually fused outputs for powering up to 4 CCTV cameras and accessories. It will provide 6-15 VDC via distribution to four fused outputs with a total of 2.5 Amps continuous supply current. The PWR-15DC-4-2UL power center is housed in the premium lockable heavy gauge metal enclosure.

Key Features

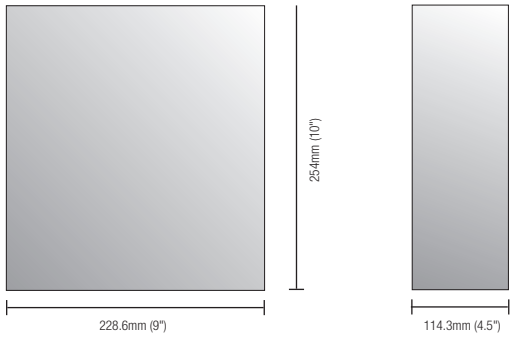
- Convenient screw and terminal and fuse access
- Lockable heavy gauge metal enclosure
- Individual LED's for each fused output
- Multiple knockouts to accommodate various wiring configurations
- Uses easy to find automotive style fuses

Technical Specifications

PWR-15DC-4-2UL	
FEATURES	
Convenient screw and terminal and fuse access	
Lockable heavy gauge metal enclosure	
Power ON/OFF switch	
Individual LED's for each fused output	
AC power LED indicator	
Double coated polyurethane finish	
Multiple knockouts to accommodate various wiring configurations	
Uses easy to find automotive style fuses	
6 to 15 VDC field adjustable	
Requires a transformer	
Includes open frame transformer	
Built-in battery charger	
SPECIFICATIONS	
Input	115VAC 50/60 HZ; 1.0 Amps
Output	1 Amps
2.5 Amps 6-15VDC supply currents at 70°F	
Four 6 to 15VDC individually fused outputs	
Enclosure Dimensions	254 x 228.6 x 114.3mm (10" x 9" x 4.5")
UL listed	

Dimensions

Unit : mm (inch)



PWR-12DC-4-5

4 Camera 12VDC 5Amp Power Supply



The PWR-12DC-4-5 is a CCTV power center engineered to manage remote camera and accessory power requirements. The PWR-12DC-4-5 distribution module is designed with 4 individually fused outputs for powering up to 4 CCTV cameras and accessories. It will provide 12 VDC via distribution to four fused outputs with a total of 5 Amps continuous supply current. The PWR-12DC-4-5 power center is housed in a premium lockable heavy gauge metal enclosure.

Key Features

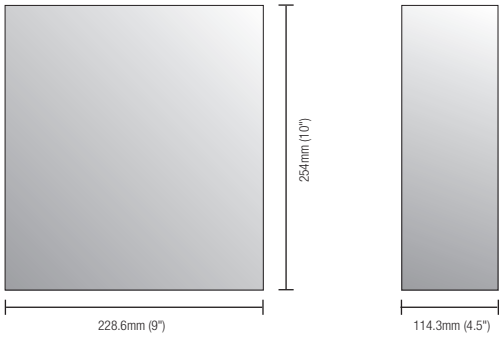
- Convenient screw and terminal and fuse access
- AC power LED indicator
- Includes transformer and spare fuses
- Multiple knockouts to accommodate various wiring configurations
- Uses easy to find automotive style fuses

Technical Specifications

PWR-12DC-4-5	
FEATURES	
Convenient screw and terminal and fuse access	
Separation panel between transformers and output access	
Power ON/OFF switch	
Individual LED's for each fused output	
AC power LED indicator	
Double coated polyurethane finish	
Multiple knockouts to accommodate various wiring configurations	
Uses easy to find automotive style fuses	
Includes transformer and spare fuses	
Built-in battery charger	
Lockable heavy gauge metal enclosure	
SPECIFICATIONS	
Input	115VAC 50/60 HZ; 1.0 Amps
Output	3 Amps
5 Amps 100VA supply currents at 70°F	
Fuse	5 Amps
Four 12VDC individually fused outputs	
Transformers	110/28VAC, 100VA
Enclosure Dimensions	254 x 228.6 x 114.3mm (10" x 9" x 4.5")

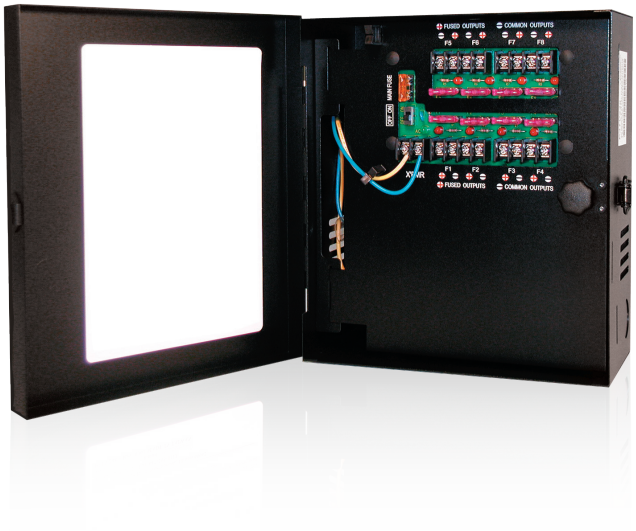
Dimensions

Unit : mm (inch)



PWR-12DC-8-5

8 Camera 12VDC 5Amp Power Supply



The PWR-12DC-8-5 is a CCTV power center engineered to manage remote camera and accessory power requirements. The PWR-12DC-8-5 distribution module is designed with 8 individually fused outputs for powering up to 8 CCTV cameras and accessories. It will provide 12 VDC via distribution to eight fused outputs with a total of 5 Amps continuous supply current. The PWR-12DC-8-5 power center is housed in a premium lockable heavy gauge metal enclosure.

Key Features

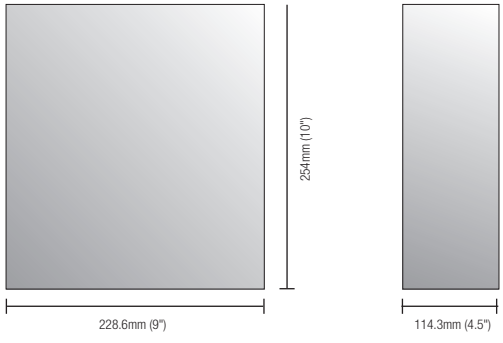
- Convenient screw and terminal and fuse access
- Lockable heavy gauge metal enclosure
- Individual LED's for each fused output
- Multiple knockouts to accommodate various wiring configurations
- Uses easy to find automotive style fuses

Technical Specifications

PWR-12DC-8-5	
FEATURES	
Convenient screw and terminal and fuse access	
Separation panel between transformers and output access	
Power ON/OFF switch	
Individual LED's for each fused output	
AC power LED indicator	
Double coated polyurethane finish	
Multiple knockouts to accommodate various wiring configurations	
Uses easy to find automotive style fuses	
Includes transformer and spare fuses	
Built-in battery charger	
Lockable heavy gauge metal enclosure	
SPECIFICATIONS	
Input	115VAC 50/60 HZ; 1.0 Amps
Output	3 Amps
5 Amps 100VA supply currents at 70°F	
Fuse	7.5 Amps
Eight 12VDC individually fused outputs	
Transformer	110/28VAC, 100VA
Enclosure Dimensions	254 x 228.6 x 114.3mm (10" x 9" x 4.5")

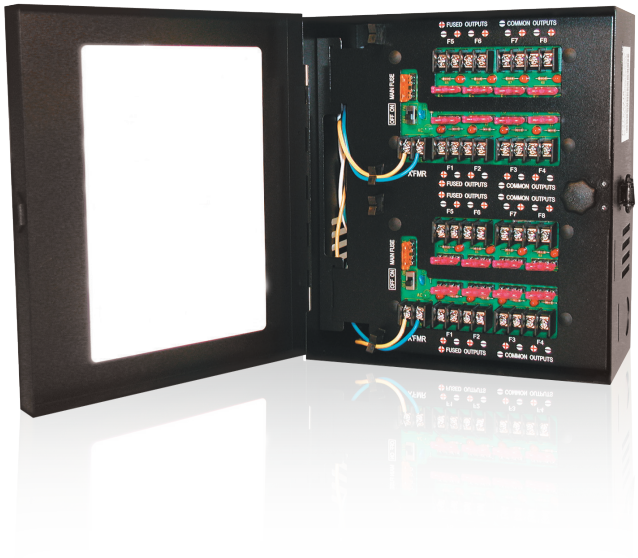
Dimensions

Unit : mm (inch)



PWR-12DC-15-5

16 Camera 12VDC 5Amp Power Supply



The PWR-12DC-15-5 is a CCTV power center engineered to manage remote camera and accessory power requirements. This distribution module is designed with 16 individually fused outputs for powering up to 16 CCTV cameras and accessories.

It will provide 12 VDC via distribution to sixteen fused outputs with a total of 5 Amps continuous supply current. The PWR-12DC-15-5 power center is housed in a premium lockable heavy gauge metal enclosure.

Key Features

- Convenient screw and terminal and fuse access
- AC power LED indicator
- Includes transformer and spare fuses
- Multiple knockouts to accommodate various wiring configurations
- Uses easy to find automotive style fuses

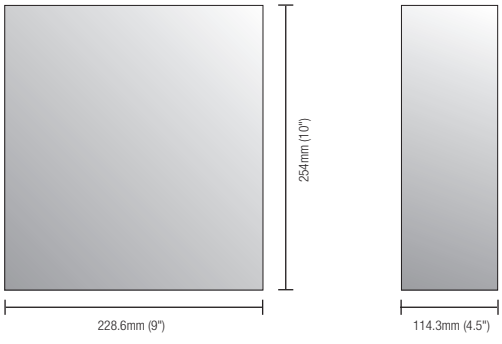
Technical Specifications

PWR-12DC-15-5	
FEATURES	
Convenient screw and terminal and fuse access	
Separation panel between transformers and output access	
Power ON/OFF switch	
Individual LED's for each fused output	
AC power LED indicator	
Double coated polyurethane finish	
Multiple knockouts to accommodate various wiring configurations	
Uses easy to find automotive style fuses	
Includes transformer and spare fuses	
Built-in battery charger	
Lockable heavy gauge metal enclosure	

SPECIFICATIONS	
Input	115VAC 50/60 HZ; 1.1 Amps
Output	3 Amps
5 Amps 100VA supply currents at 70°F	
Fuse	5 Amps
Sixteen 12VDC individually fused outputs	
Transformers	110/28VAC, 100VA
Enclosure Dimensions	254 x 228.6 x 114.3mm (10" x 9" x 4.5")

Dimensions

Unit : mm (inch)



PWR-12DC-16-10

16 Camera 12VDC 10Amp Power Supply



The PWR-12DC-16-10 is a CCTV power center engineered to manage remote camera and accessory power requirements. This distribution module is designed with 16 individually fused outputs for powering up to 16 CCTV cameras and accessories. It will provide 12 VDC via distribution to sixteen fused outputs with a total of 10 Amps continuous supply current. The PWR-12DC-16-10 power center is housed in the premium lockable heavy gauge metal enclosure.

Key Features

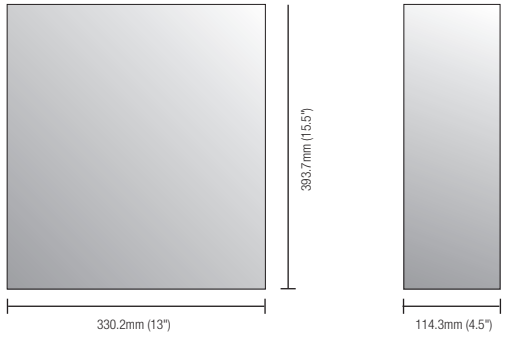
- Convenient screw and terminal and fuse access
- Lockable heavy gauge metal enclosure
- Individual LED's for each fused output
- Multiple knockouts to accommodate various wiring configurations
- Uses easy to find automotive style fuses

Technical Specifications

PWR-12DC-16-10	
FEATURES	
Convenient screw and terminal and fuse access	
Built-in battery charger	
Power ON/OFF switch	
Individual LED's for each fused output	
AC power LED indicator	
Double coated polyurethane finish	
Multiple knockouts to accommodate various wiring configurations	
Uses easy to find automotive style fuses	
Includes transformer and spare fuses	
Lockable heavy gauge metal enclosure	
SPECIFICATIONS	
Input	115VAC 50/60 HZ; 5.4 Amps
Output	3 Amps
10 Amps 225VA supply currents at 70°F	
Fuse	10 Amps
Sixteen 24VDC individually fused outputs	
Transformers	110/24VAC, 225VA
Enclosure Dimensions	393.7 x 330.2 x 114.3mm (15.5" x 13" x 4.5")

Dimensions

Unit : mm (inch)



PWR-24AC-1-3-ULW

1 Camera 24VAC 3Amp Power Supply



The PWR-24AC-1-3-ULW is a CCTV power center engineered to manage remote camera and accessory power requirements in a NEMA 4X weatherproof enclosure. The PWR-24AC-1-3-ULW distribution module is designed with 1 individually fused output for powering up to 1 CCTV camera or accessory. It will provide 24Volts AC via distribution to one fused output with a total of 3.0 Amps continuous supply current.

Key Features

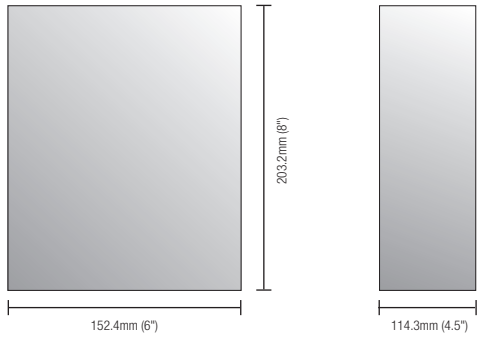
- Convenient screw and terminal and fuse access
- AC power LED indicator
- Includes transformer and spare fuses
- Lightweight molded fiberglass NEMA 4X weatherproof enclosure
- Uses easy to find automotive style fuses

Technical Specifications

PWR-24AC-1-3-ULW	
FEATURES	
Convenient screw and terminal and fuse access	
AC power LED indicator	
Includes transformer and spare fuses	
Lightweight molded fiberglass NEMA 4X weatherproof enclosure	
Uses easy to find automotive style fuses	
SPECIFICATIONS	
Input	115VAC 50/60 HZ; 0.9 Amps
Output	One 24VAC individually fused
3 Amps 100 VA supply current at 70°F	
Fuse	5 Amps
NEMA 4X weatherproof enclosure	
Unit maintains camera synchronization	
Transformer	110VAC/24VAC, 100VA
Enclosure Dimensions	203.2 x 152.4 x 114.3mm (8" x 6" x 4.5")
UL listed	

Dimensions

Unit : mm (inch)



PWR-24AC-50VA-UL



Key Features

- LED indicator supervises power
- Single mode protection - hot to neutral
- Primary termination - two (2) male blades
- Secondary termination - two (2) #6 - 32 screw terminals

Technical Specifications

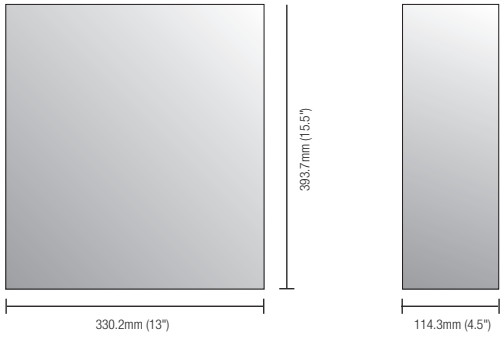
PWR-24AC-50VA-UL

FEATURES	
LED indicator supervises power	
Single mode protection - hot to neutral	
Primary termination - two (2) male blades	
Secondary termination - two (2) #6 - 32 screw terminals	

SPECIFICATIONS	
Input	120V AC 60Hz
Output	24V AC @ 50VA
Clamping Voltage	340V
Clamping Response Time	25 nanoseconds
Max. Spike Current	4500 AMPS
Max. Spike Voltage	6000V
Energy Dissipation	60 Joules
Dimensions	73.15 x 57.15 x 98.55mm (2 7/8" x 2 1/4" x 3 7/8")
Weight	.68kg (1.5 lbs)
UL Listed	Yes

Dimensions

Unit : mm (inch)



MEMO

MEMO

Samsung Total Security Solution