

The Samsung logo, consisting of the word "SAMSUNG" in white capital letters inside a blue oval.

SAMSUNG TECHWIN

SAMSUNG TOTAL SECURITY SOLUTIONS

2014 Products

Product Line-up

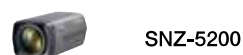
Network

Network Camera

Box

	SNB-7002	22
	SNB-7001	23
	SNB-6004	24
	SNB-6003	25
	SNB-5004/5003	26
	SNB-5001	27
	SNB-3002	28

Zoom Box



SNZ-5200

29

IR Bullet



SNO-7082R

SNO-6084R

SNO-6011R

SNO-5080R

30

31

32

33

Fisheye



SNF-7010/7010V

34

Dome

	SND-7082	
	SND-7061	
	SND-7011	
	SND-6084	
	SND-6083	
	SND-5084/5083	
	SND-5080	
	SND-5061	
	SND-5011	
	SND-3082	
	SND-1080	
	SND-1011	

35

36

37

38

39

40

41

42

43

44

45

46

IR Dome

	SND-6084R	47
	SND-6011R	48
	SNV-7082	49
	SNV-6012M	50
	SNV-6084	51
	SNV-5084	52
	SNV-5080	53
	SNV-5010	54
	SNV-3082	55

IR Vandal-Resistant

	SNV-7080R	56
	SNV-6084R	57
	SNV-5080R	58

PTZ Dome

	SNP-6201/6201H	59
	SNP-5300/5300H	60
	SNP-3371TH/3371	61
	SNP-3302H	62
	SNP-3120	63

IR PTZ Dome

	SNP-6200RH	64
---	------------	----

Network Video Recorder

	SRN-4000	66
	SRH-3000	67
	SRN-1000	68
	SRN-1670D	69
	SRN-472S	70
	SRN-470D	71
	SRM-872	72

Product Line-up

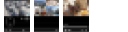
Encoder

	SPE-400B/1600R	73
	SPE-400	74
	SPE-101/100	75

Decoder

	SPD-400	76
---	---------	----

Management Software

	SSM (Samsung Security Manager)	77
	SSM-RS10/20	78
	SSM-VM10/20	79
	SSM mobile	80
	SmartViewer	81
	iPOLiS mobile	82

Network Controller

	SPC-2000	83
---	----------	----

Analogue Camera

Box

	SCB-4000	91
	SCB-3003	92
	SCB-3001	93
	SCB-3000	94
	SCB-2005	95
	SCB-2004	96
	SCB-2001	97
	SCB-2000	98
	SCB-1001	99
	SCB-3020	100

Zoom Box

	SCZ-3430	101
	SCZ-3370/2370	102
	SCZ-2373/2273	103
	SCZ-2250	104

Bullet

	SCO-2080	105
	IR Bullet	
	SCO-2081R	106
	SCO-2040R/2030R	107
	SCO-2120R	108
	SCO-2080R	109
	SCO-1020R	110

Dome

	SCD-3083	111
	SCD-3080/2080	112
	SCD-2080E/2060E	113
	SCD-2082	114
	SCD-2022	115
	SCD-2020	116
	SCD-2010	117
	SCD-2010F	118
	SCD-1080	119
	SCD-1020/1040	120

IR Dome

	SCD-2080R	121
	SCD-2021R	122
	SCD-2042R/2022R	123
	SCD-2020R	124
	SCD-1020R	125

Vandal-Resistant

	SCV-3083	126
	SCV-3082	127
	SCV-3080/2080	128

IR Vandal-Resistant

	SCV-2082R	129
	SCV-2081R	130
	SCV-2080R	131

Product Line-up

Analogue Camera

PTZ Dome

	SCP-3430H	132
	SCP-3371H/3371	133
	SCP-3370TH	134
	SCP-2373H/2373	135
	SCP-2371H/2371	136
	SCP-2370TH	137
	SCP-2273H/2273	138
	SCP-2271H/2271	139
	SCP-2250H	140
	SCP-3120/3120VH	141
	SCP-2120	142
	SCP-2370RH	143

Positioning



SCU-2370 144

HD-SDI

	SCB-6001	145
	SCO-6081R	146
	SCD-6081R	147
	SCV-6081R	148

UTP

	SUB-2000	149
	SUD-3080	150
	SUD-2081	151
	SUD-2080	152

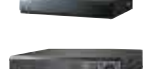
Thermal



SCB-9080/9060 154

DVR

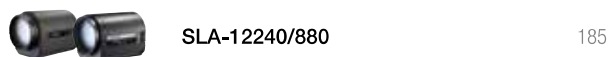
Stand-Alone

	SRD-1680D	160
	SRD-1673D	161
	SRD-1670D/1670DC	162
	SRD-1654D	163
	SRD-1653D	164
	SRD-1650D/1650DC	165
	SRD-1652D	166
	SRD-1640	167
	SRD-880D	168
	SRD-873D	169
	SRD-870DC	170
	SRD-854D	171
	SRD-850D/850DC	172
	SRD-852D	173
	SRD-840	174
	SRD-473D	175
	SRD-470D	176
	SRD-443	177
	SRD-442	178
	SRD-440	179
	SRD-480D	180
HDD		
	SVS-5R/5E	181

Product Line-up

Lens / Peripheral

Zoom

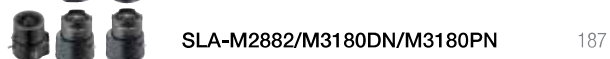


SLA-12240/880 185

Varifocal

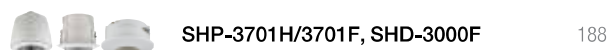


SLA-3580DN/2812DN/550DV 186

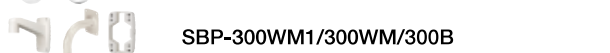


SLA-M2882/M3180DN/M3180PN 187

PTZ Housings/Mounts

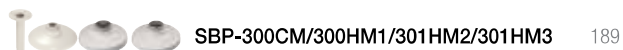


SHP-3701H/3701F, SHD-3000F 188

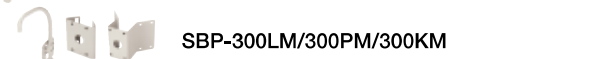


SBP-300WM1/300WM/300B

PTZ/Dome Mounts

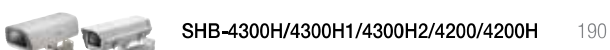


SBP-300CM/300HM1/301HM2/301HM3 189



SBP-300LM/300PM/300KM

Fixed Housings

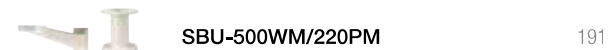


SHB-4300H/4300H1/4300H2/4200/4200H 190

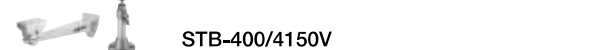


STH-500/200

Fixed Mounts

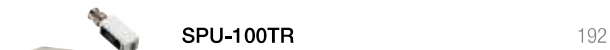


SBU-500WM/220PM 191



STB-400/4150V

UTP

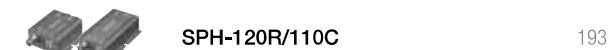


SPU-100TR 192



SPU-400/400R

HD-SDI



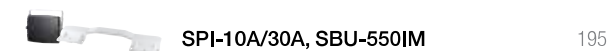
SPH-120R/110C 193

Positioning



SCU-VAC/EVAC 194

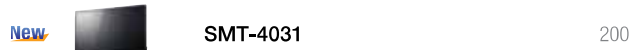
IR Illuminator / Bracket



SPI-10A/30A, SBU-550IM 195

Monitor

LED



SMT-4031 200



SMT-3231 201



SMT-2730 202



SMT-2232 203



SMT-1930 204



SMT-1934 205



SMT-1914 206

Controller



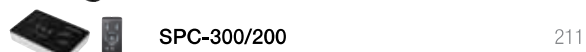
SPC-6000 208



SPC-2010 209



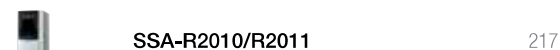
SPC-1010 210



SPC-300/200 211

Access Control System

Reader



SSA-R2010/R2011 217



SSA-R2000/R2001 218



SSA-R1000/R1001/R1100/R1101 219

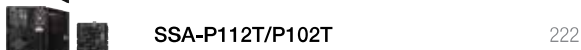
Control Panel



SSA-PE1202 220



SSA-P420T/P421T/P400T/P401T 221

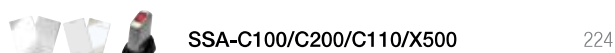


SSA-P112T/P102T 222



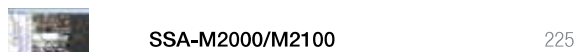
SSA-X100 223

Card & Scanner



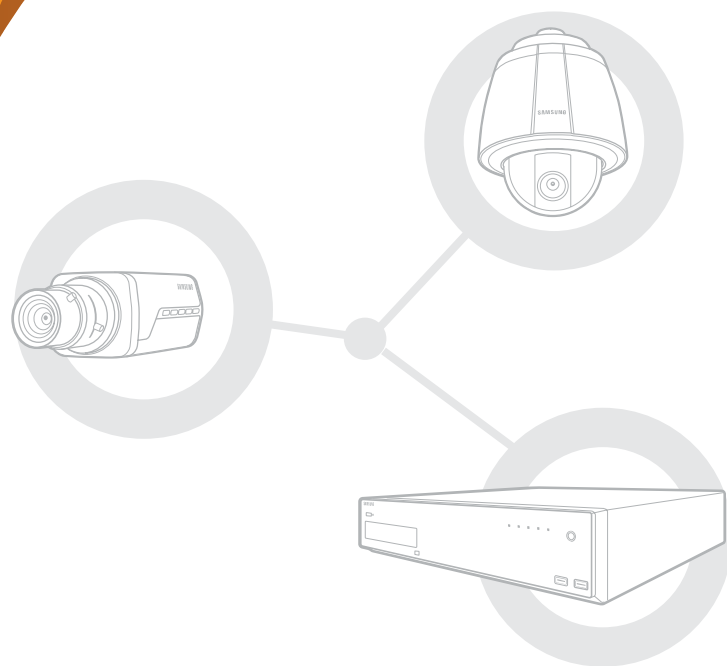
SSA-C100/C200/C110/X500 224

Software



SSA-M2000/M2100 225

SAMSUNG TOTAL SECURITY SOLUTIONS

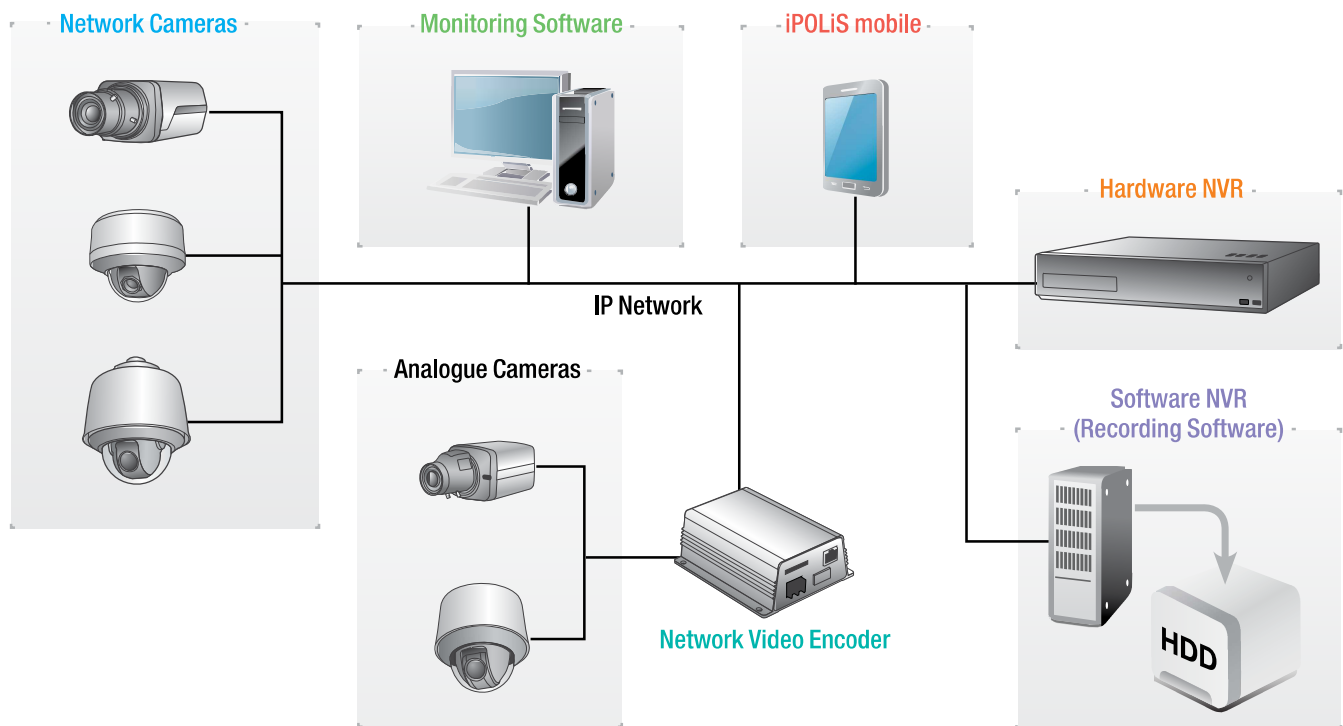


NETWORK

Network Solution

iPOLiS, Your smart security solution

iPOLiS is a one-stop IP video surveillance solution from Samsung that provides the best solutions of network systems; Network cameras, Encoders, NVRs, Monitoring software, Mobile monitoring solutions, Hardware NVRs, and Software NVRs (Recording Software). Based on cutting-edge technology earned from a long history in the video surveillance industry, iPOLiS supports users with outstanding functions that is convenient & easy to manage.



Network Cameras

Network cameras communicate with monitoring/recording tools via an IP network. Samsung is expanding its line-up of network cameras, based on its excellent technological background, these network cameras, are equipped useful functions.

Network Video Encoders

To adapt an analogue surveillance system into a network surveillance system does not mean that the pre-installed analogue cameras have to change. Encoders convert the analogue video signal into network one so that the video from analogue cameras can be transmitted over an IP network.

Monitoring Software

A standard PC can be used as a monitoring device by installing SSM, Samsung network monitoring software. Familiar operation and an easy-to-use GUI benefit users.

Hardware NVRs

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

Software NVRs (Recording Software)

NET-i Ware, Samsung's network-recording software, provides video streaming, recording and event management functions that allow users to record video continuously, on schedule, on alarm and/or on motion detection.

iPOLiS mobile

iPOLiS mobile is a free application designed specifically for Samsung Techwin security network products, available as both Android and iOS. It enables you to view live video, control pan/tilt/zoom functions, search and playback images from Samsung network cameras and NVRs, anywhere via your Smartphone.

Core Technologies from Samsung Techwin

The WiseNet series of Digital Signal Processor (DSP) chipsets have been developed in house at Samsung Techwin specifically for use in Samsung network video surveillance cameras. With three WiseNet DSP chipsets and one LiteNet series to choose from, users are able to pick the set of advanced features and functionality that best matches the requirement for their application.

iPOLiS.
Your *smart* security solution



WiseNet III

The WiseNetIII, the most advanced DSP in the WiseNet series, is equipped with enhanced functions across all the features that other WiseNet DSPs offer. Providing real time 60fps at 1080p resolution, there will be no latency or blur in images. Multi-crop streaming enables efficient use of network bandwidth and P-Iris offers images with better resolution and depth of field.

WiseNet II

Network cameras featuring the WiseNetII DSP benefit from 3megapixels, Full HD (1080p) resolution image output. The WiseNetII includes technologies such as smart codec, remote focus control and HD Wide Dynamic Range (WDR).

WiseNet

Network cameras featuring the WiseNet DSP are able to display images at 1.3megapixel and HD (720p) resolutions. Available in a broad range of camera styles, including pan / tilt / zoom models, the WiseNet DSP brings the benefits of Intelligent Video Analytics to your applications.

WiseNet S

WiseNetS network cameras offer a cost effective solution for small to medium sized applications, such as retail outlets and schools. Supporting VGA resolution image capture, they contain all the features needed to create a professional network video solution. WiseNetS is also a high value proposition, incorporating advanced features such as face detection, video analytics and edge storage.

LiteNet

Not a DSP, but selected Samsung network cameras of LiteNet series have been designed with small to medium size installations in mind. Allied to sleek designs these 1.3MP and 3MP resolution cameras offer cutting edge technologies include multiple streaming capability, 30 images per second performance at 1.3MP and 1080p respectively, video tamper functionality and progressive scan which all contribute to produce clear images.

* The features of cameras within a range can vary by model. Please refer to the specifications of the model of interest.

	Features	Camera List
	WiseNet III • Max. 2.4/1.3megapixel resolution • WDR (30fps, 120dB) • SSNRIII (Samsung Super Noise Reduction) • Multi-crop streaming • Advanced motion detection • Intelligent video analytics : Face detection, Audio detection, Tampering detection, Appear/Disappear, Virtual line, Enter/Exit • Advanced DIS (Digital Image Stabilization) • SSDR (Samsung Super Dynamic Range) • 60fps@1080p/720p • SSLE (Samsung Super Light Enhancer) • P-Iris, Defog • SDXC memory slot • Privacy Mask • UPnP / Bonjour	SNB-6004/6003 SNB-5004/5003 SNO-6084R/6011R SND-6084/6083 SND-5084/5083 SND-6084R/6011R SNV-6084/6084R SNV-5084 SNV-6012M SNF-7010/7010V
	WiseNet II • Max. 3megapixel resolution (4 : 3 display) • SSNRIII (Samsung Super Noise Reduction) • Simple focus : Motorized V/F (Dome), ABF (Box), not for PTZ cameras • WDR (3M 20fps, 2M 30fps) (not for SNP-6200) • Intelligent video analytics : Tampering detection, Appear/Disappear, Virtual line, Enter/Exit, Face detection, Audio detection (not for SNP-6200) • Privacy Mask • SSDR (Samsung Super Dynamic Range) • Full HD 1080p resolution (16 : 9 display) • Smart compression (ROI encoding) • Analogue output for easy installation • UPnP	SNB-7002 SND-7082 SNO-7082R SNV-7082 SNV-7080R SNP-6201/6201H SNP-5300/5300H SNP-6200RH
	WiseNet • Max. 1.3megapixel resolution • HD 720p resolution (16 : 9 display) • SSNRIII (Samsung Super Noise Reduction) • Intelligent video analytics : Tampering detection, Appear/Disappear, Virtual line, Enter/Exit • Privacy Mask • Analogue output for easy installation • SSDR (Samsung Super Dynamic Range)	SND-5080 SNO-5080R SNV-5080 SNV-5080R SNZ-5200 SNV-5010
	WiseNet S • VGA (640 x 480) Resolution • SSNRIII (Samsung Super Noise Reduction) • Intelligent video analytics : Face detection • Privacy Mask • Analogue output for easy installation • SSDR (Samsung Super Dynamic Range)	SND-1080 SND-1011 SNO-1080R
	LiteNet • Max. 1.3/3megapixel resolution • Smart compression (ROI encoding) : 3megapixel cameras • Intelligent video analytics : Tampering detection • Privacy Mask • Analogue output for easy installation • SSDR (Samsung Super Dynamic Range)	SNB-7001 SND-7061 SND-7011 SNB-5001 SND-5061 SND-5011

Core Technologies from Samsung Techwin

Wide Range of Resolution to Select from VGA to 3Megapixel

The WiseNet/LiteNet range of network cameras includes VGA (640 x 480), 1.3megapixel HD and 3megapixel (2048 x 1536) Full HD cameras and domes, making it possible to select the correct camera for each location.

For example, standard resolution cameras can be used for general monitoring purposes whilst Samsung's high performance megapixel HD cameras can be used in places that require evidence grade video such as in the A&E department and maternity wards. Also the megapixel cameras can monitor a wider scene such as a factory floor replacing the job of 5 industry standard cameras saving cost and installation time.



	VGA	1.3MP / HD	2MP / Full HD	3MP / Full HD
LiteNet	Yes	Yes (5001 series)	Yes (7001 series)	Yes (7001 series)
WiseNetS	Yes	N/A	N/A	N/A
WiseNet	Yes	Yes	N/A	N/A
WiseNetII	Yes	Yes	Yes	Yes
WiseNetIII	Yes	Yes	Yes	N/A

SSLE (Samsung Super Light Enhancer)

Even under low light conditions such as at night users can monitor the scene in 2MP, so that there is little chance of any movement in dark areas being missed.



* 2M WiseNetIII Min. illumination : Color 0.1Lux, BW 0.01Lux
(SNB-6003, SND-6083 and IR camera series exclusion)
1M WiseNetIII Min. illumination : Color 0.05Lux, BW 0.005Lux
(SNB-5003 exclusion)

WDR (Wide Dynamic Range)

The WDR technology compensates for backlight problems effectively, by applying an optimum fusion ratio when combining the long exposure (low shutter speed exposure) method used in bright areas and the short exposure (high shutter speed exposure) method used in dark areas.



	WDR	Frame Rate	Remarks
LiteNet	N/A	N/A	N/A
WiseNetS	N/A	N/A	N/A
WiseNet	N/A	N/A	SNP-5300 : 90dB
WiseNetII	96dB	20fps@3MP, 30fps@2MP	SNP-6200 : Not supported
WiseNetIII	120dB / 130dB	20fps@3MP	N/A

SSNRIII (Samsung Super Noise ReductionIII)

Useful in low light condition, this technology eliminates image noise in low light conditions without creating image blur or ghosting. The technology works in color and monochrome modes, greatly enhancing low light color operation.



	Remarks
LiteNet	N/A
WiseNetS	Yes
WiseNet	Yes
WiseNetII	Yes
WiseNetIII	Yes

Defog

Defog can be used to help improve the captured image in poor weather conditions such as rain, smoke or fog. The visibility of the cameras can be enhanced in any weather condition.



	Remarks
LiteNet	N/A
WiseNetS	N/A
WiseNet	N/A
WiseNetII	N/A
WiseNetIII	Yes

SSDR (Samsung Super Dynamic Range)

Useful in high contrast or backlight scenes SSDR automatically brightens the dark areas whilst maintaining the brighter areas at the same level. This ensures that the dark areas become more viewable allowing the operator to view objects in the shadows.



	Remarks
LiteNet	Yes
WiseNetS	Yes
WiseNet	Yes
WiseNetII	Yes
WiseNetIII	Yes

P-Iris Lens Support

The P-Iris system optimizes the iris function when multiple lighting conditions exist in a single scene resulting in images with better contrast, clarity, resolution and depth of field. Especially effective in megapixel cameras such as the WiseNetIII series providing increased image sharpness.



	Remarks
LiteNet	N/A
WiseNetS	N/A
WiseNet	N/A
WiseNetII	N/A
WiseNetIII	Yes

Advanced DIS (Digital Image Stabilization)

Previously only seen in analogue CCDs, Samsung's new WiseNetIII CMOS sensor now incorporates Digital Image Stabilization (DIS) technology to negate the effects of a camera shaking due to high winds or building vibration. This also greatly reduces the rolling shutter effects such as image wobbling or skew that can be seen in high quality images.



	Remarks
LiteNet	N/A
WiseNetS	N/A
WiseNet	N/A
WiseNetII	N/A
WiseNetIII	Yes

Core Technologies from Samsung Techwin

Samsung 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 smart codec technology allow the network cameras to be programmed to capture in greater detail the real ROI, such as moving objects, human faces, doors or windows than the remainder of the scene. This smart codec feature produces lower data sizes while clearly highlighting the ROI.



	Remarks
LiteNet	Yes (7001 series only)
WiseNetS	N/A
WiseNet	N/A
WiseNetII	Yes
WiseNetIII	Yes

Polygonal Mask

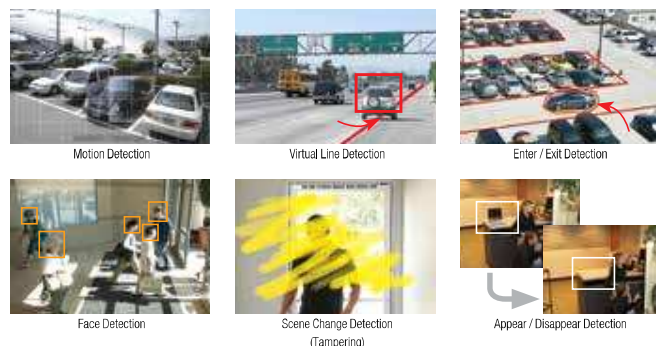
A privacy mask is a setting that is on selected cameras that allow you block out a certain part of the scene. This is especially useful in areas that have to couple the needs of surveillance with the requirements of privacy and data protection. The polygonal masks allow for the accurate masking of sensitive areas while not infringing on the surveillance sectors.

	Number of Areas	Remarks
LiteNet	Up to 12ea	Yes
WiseNetS	Up to 32ea	Yes
WiseNet	Up to 12ea	SNZ-5200 : 8ea
WiseNetII	Up to 17ea	Yes
WiseNetIII	Up to 32ea	Yes

Intelligent Video Analytics

Intelligent video analytics can be used for efficient monitoring. Each range of cameras features a different set of analytics.

- Motion Detection : Detects any change occurring in predefined fields of view
- Face Detection : Detects up to 32 faces in the scene.
- Appear / Disappear : Detects the movement of an object in a predefined area
- Virtual Line / Enter / Exit : Detects an object crossing a line or areas in predefined areas.
- Audio Detection : Detects any abnormal sound by volume.
- Tampering Detection : Detects and automatically alerts when a cameras field of view is changed.



	Supported Functions
LiteNet	Tampering detection
WiseNetS	Face detection
WiseNet	Tampering detection, Appear/Disappear, Virtual line, Enter/Exit
WiseNetII	Tampering detection, Audio detection, Face detection, Appear/Disappear, Virtual line, Enter/Exit
WiseNetIII	Appear/Disappear, Audio detection, Face detection, Virtual line, Enter/Exit

* The Intelligent Video Analytics functions supported by each camera can vary by model.

Simple Focus

Simple focus, Samsung's automatic focus technology allows the camera to move the image sensor's position in box cameras, while in dome cameras a motorized varifocal lens with a remote control function will control these adjustments.

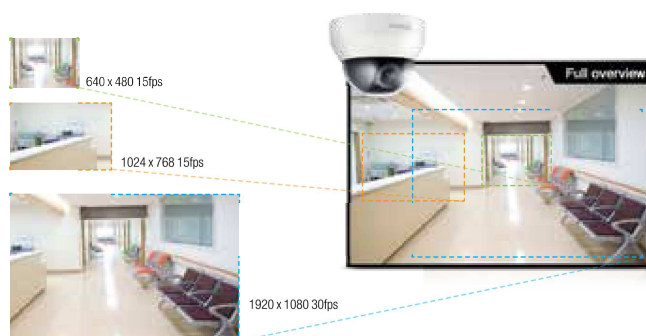


	Remarks
LiteNet	N/A
WiseNetS	N/A
WiseNet	N/A
WiseNetII	Yes
WiseNetIII	Yes (Varies by model)

Multi-crop Streaming

The streaming of multiple images (Multi-streaming) has now become smarter with WiseNetIII's high 60fps frame rate. Users can highlight/crop the scene of interest and the camera only sends the images within that area at a preferred resolution and frame rate. This flexibility in the video's resolution and frame rate allows a much smarter and efficient use of the network's bandwidth.

	Remarks
LiteNet	N/A
WiseNetS	N/A
WiseNet	N/A
WiseNetII	N/A
WiseNetIII	Yes



Edge Storage Support

Edge storage of WiseNetIII network cameras support SDXC memory as well as SD/SDHC, extending the capacity SDXC, reducing the dependency on external recording devices by greatly extending the number of days recorded locally.

	Remarks
LiteNet	N/A
WiseNetS	Micro SD/SDHC (Not supported for SNO-1080R)
WiseNet	Yes (Not supported for SNO-5080R and SNV-5010)
WiseNetII	SD/SDHC
WiseNetIII	SD/SDHC/SDXC

UPnP / Bonjour

UPnP and Bonjour are the protocols supported in Windows and Mac operating system. It enables automatic port forwarding so that the operating system can automatically find each network camera, making it easier to integrate a device into a network. Currently WiseNetII and WiseNetIII network cameras support UPnP/Bonjour but every camera will be supporting these in near future.

	Remarks
LiteNet	N/A
WiseNetS	N/A
WiseNet	N/A
WiseNetII	UPnP
WiseNetIII	UPnP / Bonjour

Network Camera Selection

	3Megapixel					
	Box		IR Bullet	Dome		
	SNB-7002	SNB-7001	SNO-7082R	SNF-7010/7010V	SND-7082	SND-7061
						
Imaging Device	1/3" 3.1M PS CMOS	1/2.8" 3M PS CMOS	1/3" 3.1M PS CMOS	1/2.8" 3M PS CMOS	1/3" 3.1M PS CMOS	1/2.8" 3M PS CMOS
Min. Illumination (50 IRE)	Color : 0.7Lux B/W : 0.07Lux	0.4Lux	Color : 0.7Lux B/W : 0Lux (IR LED on)	1.3Lux	Color : 0.7Lux B/W : 0.07Lux	0.4Lux
Simple Focus	Yes	N/A	Yes	N/A	Yes	N/A
Day & Night	Yes (ICR)	Yes (Electrical)	Yes (ICR)	Yes (Electrical)	Yes (ICR)	Yes (Electrical)
Wide Dynamic Range	Yes	N/A	Yes	Yes	Yes	N/A
Analog Video Output	DIP connector type	CVBS 1.0Vp-p	CVBS 1.0Vp-p	N/A	CVBS 1.0Vp-p	CVBS 1.0Vp-p
Lens	Optional	Optional	2.8x motorized varifocal (3 ~ 8.5mm)	1.05mm fixed	2.8x motorized varifocal (3 ~ 8.5mm)	2.8x varifocal (3 ~ 8.5mm)
Video Compression Format	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
Streaming Capability	Multiple streaming (Up to 6 profiles)	Multiple streaming (Up to 5 profiles)	Multiple streaming (Up to 6 profiles)	Multiple streaming (Up to 6 profiles)	Multiple streaming (Up to 6 profiles)	Multiple streaming (Up to 5 profiles)
Streaming Method	Unicast / Multicast	Unicast / Multicast	Unicast / Multicast	Unicast / Multicast	Unicast / Multicast	Unicast / Multicast
Max. Resolution	2048 x 1536	2048 x 1536	2048 x 1536	N/A	2048 x 1536	2048 x 1536
Max. Frame Rate	20fps at 3MP (H.264)	20fps at 3MP (H.264)	20fps at 3MP (H.264)	20fps at 3MP (H.264)	20fps at 3MP (H.264)	20fps at 3MP (H.264)
Audio I/O	Bi-directional	N/A	Bi-directional	Bi-directional	Bi-directional	N/A
Memory Slot	Yes (SD/SDHC)	N/A	Yes (SD/SDHC, 4GB included)	Yes (Micro SD/SDHC/SDXC)	Yes (SD/SDHC)	N/A
Alarm I/O	1 / 1	1 / 0	1 / 1	N/A	1 / 1	1 / 0
Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes
Intelligent Video Analytics	Audio detection, Face detection, Tampering, Virtual line, Enter / Exit, Appear / Disappear	Tampering	Audio detection, Face detection, Tampering, Virtual line, Enter / Exit, Appear / Disappear	Audio detection, Tampering	Audio detection, Face detection, Tampering, Virtual line, Enter / Exit, Appear / Disappear	Tampering
ONVIF	Yes (Profile S)	Yes (Profile S)	Yes (Profile S)	Yes (Profile S)	Yes (Profile S)	Yes (Profile S)
Environmental Protection	N/A	N/A	IP66, IK10	IP66, IK10, EN50155 (SNF-7010V)	N/A	N/A
Operating Temperature	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	24V AC : -50°C ~ +55°C (-58°F ~ +131°F) 12V DC, PoE : -10°C ~ +55°C (+14°F ~ +131°F) *Heater works at AC input only	-10°C ~ +55°C (+14°F ~ +131°F) (SNF-7010) -25°C ~ 55°C (-13°F ~ +131°F) (SNF-7010V)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)
Power	24V AC, 12V DC, PoE (IEEE802.3af)	12V DC, PoE (IEEE802.3af)	24V AC, 12V DC, PoE (IEEE802.3af class3)	PoE (IEEE802.3af class1)	12V DC, PoE (IEEE802.3af class3)	12V DC, PoE (IEEE802.3af)

	3Megapixel			2Megapixel	
	Dome	Vandal-Resistant	IR Vandal-Resistant	Box	
	SND-7011	SNV-7082	SNV-7080R	SNB-6004	SNB-6003
					
Imaging Device	1/2.8" 3M PS CMOS	1/3" 3.1M PS CMOS	1/2.8" 3M PS CMOS	1/2.8" PS Exmor 2.38M CMOS	1/2.8" PS Exmor 2.38M CMOS
Min. Illumination (50 IRE)	0.9Lux	Color : 0.7Lux B/W : 0.07Lux	Color : 1Lux B/W : 0Lux (IR LED on)	Color : 0.1Lux B/W : 0.01Lux	Color : 0.1Lux B/W : 0.1Lux
Simple Focus	N/A	Yes	Yes	N/A	N/A
P-Iris	N/A	N/A	N/A	Yes	Yes
Day & Night	Yes (Electrical)	Yes (ICR)	Yes (ICR)	Yes (ICR)	Yes (Electrical)
Wide Dynamic Range	N/A	Yes	Yes	Yes	Yes
Analog Video Output	CVBS 1.0Vp-p	CVBS 1.0Vp-p	CVBS 1.0Vp-p	CVBS 1.0Vp-p, DIP connector type	CVBS 1.0Vp-p, DIP connector type
Lens	3mm fixed	2.8x motorized varifocal (3 ~ 8.5mm)	2.8x motorized varifocal (3 ~ 8.5mm)	Optional	Optional
Video Compression Format	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
Streaming Capability	Multiple streaming (Up to 5 profiles)	Multiple streaming (Up to 6 profiles)	Multiple streaming (Up to 6 profiles)	Multiple streaming (Up to 10 profiles)	Multiple streaming (Up to 10 profiles)
Streaming Method	Unicast / Multicast	Unicast / Multicast	Unicast / Multicast	Unicast / Multicast	Unicast / Multicast
Max. Resolution	2048 x 1536	2048 x 1536	2048 x 1536	1920 x 1080	1920 x 1080
Max. Frame Rate	20fps at 3MP (H.264)	20fps at 3MP (H.264)	20fps at 3MP (H.264)	60fps at 2MP (H.264)	60fps at 2MP (H.264)
Audio I/O	N/A	Bi-directional	Bi-directional	Bi-directional	Bi-directional
Memory Slot	N/A	Yes (SD/SDHC)	Yes (SD/SDHC)	Yes (Micro SD/SDHC/SDXC)	Yes (Micro SD/SDHC/SDXC)
Alarm I/O	1 / 0	1 / 1	1 / 1	1 / 1	1 / 1
Motion Detection	Yes	Yes	Yes	Yes	Yes
Intelligent Video Analytics	Tampering	Audio detection, Face detection, Tampering, Virtual line, Enter / Exit, Appear / Disappear	Scene change, Virtual line, Enter / Exit, Appear / Disappear	Tampering, Virtual line, Enter / Exit, Appear / Disappear, Audio detection, Face detection with metadata	Tampering, Virtual line, Enter / Exit, Appear / Disappear, Audio detection, Face detection with metadata
ONVIF	Yes (Profile S)	Yes (Profile S)	Yes (Profile S)	Yes (Profile S)	Yes (Profile S)
Environmental Protection	N/A	IP66, IK10	IP66, IK10	N/A	N/A
Operating Temperature	-10°C ~ +55°C (+14°F ~ +131°F)	12V DC : -10°C ~ +55°C (+14°F ~ +131°F) PoE : -35°C ~ +55°C (-31°F ~ +131°F) *Heater works at PoE power input *After start up, working at -40° by PoE	24V AC : -40°C ~ +55°C (-40°F ~ +131°F) 12V DC, PoE : -10°C ~ +55°C (+14°F ~ +131°F) *Heater works at AC input only	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)
Power	12V DC, PoE (IEEE802.3af class2)	12V DC, PoE (IEEE802.3af class3)	24V AC, 12V DC, PoE (IEEE802.3af)	24V AC, 12V DC, PoE (IEEE802.3af class3)	24V AC, 12V DC, PoE (IEEE802.3af class3)

Network Camera Selection

	2Megapixel					
	IR Bullet		Dome		IR Dome	
	SNO-6084R	SNO-6011R	SND-6084	SND-6083	SND-6084R	SND-6011R
						
Imaging Device	1/2.8" PS Exmor 2.38M CMOS	1/2.8" PS Exmor 2.38M CMOS	1/2.8" PS Exmor 2.38M CMOS	1/2.8" PS Exmor 2.38M CMOS	1/2.8" PS Exmor 2.38M CMOS	1/2.8" PS Exmor 2.38M CMOS
Min. Illumination (50 IRE)	Color : 0.1Lux B/W : 0Lux (IR LED on)	Color : 0.3Lux B/W : 0Lux (IR LED on)	Color : 0.1Lux B/W : 0Lux (IR LED on)	Color : 0.1Lux B/W : 0.1Lux	Color : 0.1Lux B/W : 0Lux (IR LED on)	Color : 0.3Lux B/W : 0Lux (IR LED on)
Simple Focus	Yes	N/A	Yes	N/A	Yes	N/A
Day & Night	Yes (ICR)	Yes (ICR)	Yes (ICR)	Yes (Electrical)	Yes (ICR)	Yes (ICR)
Wide Dynamic Range	Yes	Yes	Yes	Yes	Yes	Yes
Analog Video Output	CVBS 1.0Vp-p, DIP connector type	CVBS 1.0Vp-p	CVBS 1.0Vp-p, DIP connector type	CVBS 1.0Vp-p, DIP connector type	CVBS 1.0Vp-p, DIP connector type	CVBS 1.0Vp-p
Lens	2.8x motorized varifocal (3 ~ 8.5mm)	3.8mm fixed	2.8x motorized varifocal (3 ~ 8.5mm)	2.8x motorized varifocal (3 ~ 8.5mm)	2.8x motorized varifocal (3 ~ 8.5mm)	3.8mm fixed
Video Compression Format	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
Streaming Capability	Multiple streaming (Up to 10 profiles)	Multiple streaming (Up to 10 profiles)	Multiple streaming (Up to 10 profiles)	Multiple streaming (Up to 10 profiles)	Multiple streaming (Up to 10 profiles)	Multiple streaming (Up to 10 profiles)
Streaming Method	Unicast / Multicast	Unicast / Multicast	Unicast / Multicast	Unicast / Multicast	Unicast / Multicast	Unicast / Multicast
Max. Resolution	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
Max. Frame Rate	60fps at 2MP (H.264)	30fps at all resolutions	60fps at 2MP (H.264)	60fps at 2MP (H.264)	60fps at 2MP (H.264)	30fps at all resolutions
Audio I/O	Bi-directional	N/A	Bi-directional	Bi-directional	Bi-directional	N/A
Memory Slot	Yes (Micro SD/SDHC/SDXC)	Yes (Micro SD/SDHC/SDXC)	Yes (Micro SD/SDHC/SDXC)	Yes (Micro SD/SDHC/SDXC)	Yes (Micro SD/SDHC/SDXC)	Yes (Micro SD/SDHC/SDXC)
Alarm I/O	1 / 1	1 / 0	1 / 1	1 / 1	1 / 1	1 / 0
Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes
Intelligent Video Analytics	Tampering, Virtual line, Enter / Exit, Appear / Disappear, Audio detection, Face detection with metadata	Tampering, Virtual line, Enter / Exit, Appear / Disappear, Audio detection, Face detection with metadata	Tampering, Virtual line, Enter / Exit, Appear / Disappear, Audio detection, Face detection with metadata	Tampering, Virtual line, Enter / Exit, Appear / Disappear, Audio detection, Face detection with metadata	Tampering, Virtual line, Enter / Exit, Appear / Disappear, Audio detection, Face detection with metadata	Tampering, Virtual line, Enter / Exit, Appear / Disappear, Audio detection, Face detection with metadata
ONVIF	Yes (Profile S)	Yes (Profile S)	Yes (Profile S)	Yes (Profile S)	Yes (Profile S)	Yes (Profile S)
Environmental Protection	IP66, IK10	IP66	N/A	N/A	N/A	N/A
Operating Temperature	24V AC : -50°C ~ +55°C (-58°F ~ +131°F) 12V DC, PoE : -10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)
Power	24V AC, 12V DC, PoE (IEEE802.3af)	PoE (IEEE802.3af)	12V DC, PoE (IEEE802.3af class3)	12V DC, PoE (IEEE802.3af class3)	12V DC, PoE (IEEE802.3af)	PoE (IEEE802.3af)

	2Megapixel					
	Vandal-Resistant		IR Vandal-Resistant	PTZ	IR PTZ	IR PTZ
	SNV-6012M	SNV-6084	SNV-6084R	SNP-6201	SNP-6201H	SNP-6200RH
						
Imaging Device	1/2.8" PS Exmor 2.38M CMOS	1/2.8" PS Exmor 2.38M CMOS	1/2.8" PS Exmor 2.38M CMOS	1/3" 2M PS CMOS	1/3" 2M PS CMOS	1/3" 2M PS CMOS
Min. Illumination (50 IRE)	0.3Lux	Color : 0.1Lux B/W : 0.01Lux	Color : 0.1Lux B/W : 0Lux (IR LED on)	Color : 1.5Lux B/W : 0.1Lux	Color : 1.5Lux B/W : 0.1Lux	Color : 1.5Lux B/W : 0Lux (IR LED on)
Simple Focus	N/A	Yes	Yes	N/A	N/A	N/A
Day & Night	Yes (Electrical)	Yes (ICR)	Yes (ICR)	Yes (ICR)	Yes (ICR)	Yes (ICR)
Wide Dynamic Range	Yes	Yes	Yes	Yes	Yes	Yes
Analog Video Output	CVBS 1.0Vp-p, DIP connector type	CVBS 1.0Vp-p, DIP connector type	CVBS 1.0Vp-p, DIP connector type	CVBS 1.0Vp-p	CVBS 1.0Vp-p	CVBS 1.0Vp-p
Lens	3mm fixed	2.8x motorized varifocal (3 ~ 8.5mm)	2.8x motorized varifocal (3 ~ 8.5mm)	20x (4.45 ~ 89mm)	20x (4.45 ~ 89mm)	20x (4.45 ~ 89mm)
Video Compression Format	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
Streaming Capability	Multiple streaming (Up to 10 profiles)	Multiple streaming (Up to 10 profiles)	Multiple streaming (Up to 10 profiles)	Multiple streaming (Up to 6 profiles)	Multiple streaming (Up to 6 profiles)	Multiple streaming (Up to 6 profiles)
Streaming Method	Unicast / Multicast	Unicast / Multicast	Unicast / Multicast	Unicast / Multicast	Unicast / Multicast	Unicast / Multicast
Max. Resolution	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
Max. Frame Rate	60fps at 2MP (H.264)	60fps at 2MP (H.264)	60fps at 2MP (H.264)	30fps at all resolutions	30fps at all resolutions	30fps at all resolutions
Audio I/O	N/A	Bi-directional	Bi-directional	Bi-directional	Bi-directional	Bi-directional
Memory Slot	Yes (Micro SD/SDHC/SDXC)	Yes (Micro SD/SDHC/SDXC)	Yes (Micro SD/SDHC/SDXC)	Yes (SD/SDHC)	Yes (SD/SDHC)	Yes (SD/SDHC)
Alarm I/O	N/A	1 / 1	1 / 1	4 / 2	4 / 2	4 / 2
Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes
Intelligent Video Analytics	Tampering, Virtual line, Enter / Exit, Appear / Disappear, Audio detection, Face detection	Tampering, Virtual line, Enter / Exit, Appear / Disappear, Audio detection, Face detection	Tampering, Virtual line, Enter / Exit, Appear / Disappear, Audio detection, Face detection with metadata	Tampering, Virtual line, Enter / Exit, Appear / Disappear, Audio detection, Face detection	Tampering, Virtual line, Enter / Exit, Appear / Disappear, Audio detection, Face detection	Tampering, Virtual line, Enter / Exit, Appear / Disappear, Audio detection, Face detection
ONVIF	Yes (Profile S)	Yes (Profile S)	Yes (Profile S)	Yes (Profile S)	Yes (Profile S)	Yes (Profile S)
Environmental Protection	IP66, IK10, EN50121	IP66, IK10	IP66, IK10	N/A	IP66	IP66, IK10
Operating Temperature	-30°C ~ +55°C (-22°F ~ +131°F)	-40°C ~ +55°C (-40°F ~ +131°F) *Start up should be done at above -35°C	24V AC : -40°C ~ +55°C (-40°F ~ +131°F) 12V DC, PoE : -10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-30°C ~ +55°C (-22°F ~ +131°F) (Heater on, PoE+) -50°C ~ +55°C (-58°F ~ +131°F) (Heater on, 24V AC)	-50°C ~ +55°C (-58°F ~ +131°F) (Heater on, 24V AC) *Heater works at AC input only
Power	PoE (Class A type only)	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

Network Camera Selection

	1.3Megapixel					
	Box			Zoom Box	IR Bullet	Dome
	SNB-5004	SNB-5003	SNB-5001	SNZ-5200	SNO-5080R	SND-5084
						
Imaging Device	1/3" 1.3M PS CMOS	1/3" 1.3M PS CMOS	1/3" 1.3M PS CMOS	1/3" 1.3M PS CMOS	1/3" 1.3M PS CMOS	1/3" 1.3M PS CMOS
Min. Illumination (50 IRE)	Color : 0.05Lux B/W : 0.005Lux	Color : 0.05Lux B/W : 0.005Lux	0.7Lux	Color : 0.7Lux B/W : 0.08Lux	Color : 0.3Lux B/W : 0Lux (IR LED on)	Color : 0.05Lux B/W : 0.005Lux
Simple Focus	Yes	N/A	N/A	N/A	N/A	Yes
P-Iris	Yes	Yes	N/A	N/A	N/A	N/A
Day & Night	Yes (ICR)	Yes (Electrical)	Yes (Electrical)	Yes (ICR)	Yes (ICR)	Yes (ICR)
Wide Dynamic Range	Yes	Yes	N/A	N/A	N/A	Yes
Analog Video Output	CVBS 1.0Vp-p, DIP connector type	CVBS 1.0Vp-p, DIP connector type	CVBS 1.0Vp-p	CVBS 1.0Vp-p	DIP connector type	CVBS 1.0Vp-p, DIP connector type
Lens	Optional	Optional	Optional	20x (4.45 ~ 89mm)	3.6x varifocal (2.8 ~ 10mm)	2.8x motorized varifocal (3 ~ 8.5mm)
Video Compression Format	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG	H.264, MJPEG
Streaming Capability	Multiple streaming (Up to 10 profiles)	Multiple streaming (Up to 10 profiles)	Multiple streaming (Up to 10 profiles)	Multiple streaming (Up to 10 profiles)	Multiple streaming (Up to 10 profiles)	Multiple streaming (Up to 10 profiles)
Streaming Method	Unicast / Multicast	Unicast / Multicast	Unicast / Multicast	Unicast / Multicast	Unicast / Multicast	Unicast / Multicast
Max. Resolution	1280 x 1024	1280 x 1024	1280 x 1024	1280 x 1024	1280 x 1024	1280 x 1024
Max. Frame Rate	60fps at all resolutions	60fps at all resolutions	30fps at all resolutions	30fps at all resolutions	30fps at 720P	60fps at all resolutions
Audio I/O	Bi-directional	Bi-directional	N/A	Bi-directional	N/A	Bi-directional
Memory Slot	Yes (Micro SD/SDHC/SDXC)	Yes (Micro SD/SDHC/SDXC)	N/A	Yes (Micro SD/SDHC)	N/A	Yes (Micro SD/SDHC/SDXC)
Alarm I/O	1 / 1	1 / 1	1 / 0	1 / 1	1 / 1	1 / 1
Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes
Intelligent Video Analytics	Tampering, Virtual line, Enter / Exit, Appear / Disappear, Audio detection, Face detection	Tampering, Virtual line, Enter / Exit, Appear / Disappear, Audio detection, Face detection	Tampering	Scene change, Virtual line, Enter / Exit, Appear / Disappear	Scene change, Virtual line, Enter / Exit, Appear / Disappear	Tampering, Virtual line, Enter / Exit, Appear / Disappear, Audio detection, Face detection
ONVIF	Yes (Profile S)	Yes (Profile S)	Yes (Profile S)	Yes (Profile S)	Yes (Profile S)	Yes (Profile S)
Environmental Protection	N/A	N/A	N/A	N/A	IP66	N/A
Operating Temperature	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)
Power	24V AC, 12V DC, PoE (IEEE802.3af class3)	24V AC, 12V DC, PoE (IEEE802.3af class3)	12V DC, PoE (IEEE802.3af class2)	12V DC, PoE (IEEE802.3af)	24V AC, 12V DC, PoE (IEEE802.3af)	12V DC, PoE (IEEE802.3af class3)

	1.3Megapixel					
	Dome				Vandal-Resistant	
	SND-5083	SND-5080	SND-5061	SND-5011	SNV-5084	SNV-5080
						
Imaging Device	1/3" 1.3M PS CMOS	1/3" 1.3M PS CMOS	1/2.8" 1.3M PS CMOS	1/2.8" 1.3M PS CMOS	1/3" 1.3M PS CMOS	1/3" 1.3M PS CMOS
Min. Illumination (50 IRE)	Color : 0.05Lux B/W : 0.005Lux	Color : 0.3Lux B/W : 0.01Lux	0.7Lux	1.6Lux	Color : 0.05Lux B/W : 0.005Lux	Color : 0.3Lux B/W : 0.01Lux
Simple Focus	N/A	N/A	N/A	N/A	Yes	N/A
Day & Night	Yes (ICR)	Yes (ICR)	Yes (Electrical)	Yes (Electrical)	Yes (ICR)	Yes (ICR)
Wide Dynamic Range	Yes	N/A	N/A	N/A	Yes	N/A
Analog Video Output	CVBS 1.0Vp-p, DIP connector type	CVBS 1.0Vp-p	CVBS 1.0Vp-p	CVBS 1.0Vp-p	CVBS 1.0Vp-p, DIP connector type	CVBS 1.0Vp-p
Lens	3.6x varifocal (2.8 ~ 10mm)	3.6x varifocal (2.8 ~ 10mm)	2.8x varifocal (3 ~ 8.5mm)	3mm fixed	2.8x motorized varifocal (3 ~ 8.5mm)	3.6x varifocal (2.8 ~ 10mm)
Video Compression Format	H.264, MJPEG	H.264, MPEG-4, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MPEG-4, MJPEG
Streaming Capability	Multiple streaming (Up to 10 profiles)	Multiple streaming (Up to 10 profiles)	Multiple streaming (Up to 10 profiles)	Multiple streaming (Up to 10 profiles)	Multiple streaming (Up to 10 profiles)	Multiple streaming (Up to 10 profiles)
Streaming Method	Unicast / Multicast	Unicast / Multicast	Unicast / Multicast	Unicast / Multicast	Unicast / Multicast	Unicast / Multicast
Max. Resolution	1280 x 1024	1280 x 1024	1280 x 1024	1280 x 1024	1280 x 1024	1280 x 1024
Max. Frame Rate	60fps at all resolutions	30fps at all resolutions	30fps at all resolutions	30fps at all resolutions	60fps at all resolutions	30fps at all resolutions
Audio I/O	Bi-directional	Bi-directional	N/A	N/A	Bi-directional	Bi-directional
Memory Slot	Yes (Micro SD/SDHC/SDXC)	Yes (SD/SDHC)	N/A	N/A	Yes (Micro SD/SDHC/SDXC)	Yes (SD/SDHC)
Alarm I/O	1 / 1	1 / 1	1 / 0	1 / 0	1 / 1	1 / 1
Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes
Intelligent Video Analytics	Tampering, Virtual line, Enter / Exit, Appear / Disappear, Audio detection, Face detection	Scene change, Virtual line, Enter / Exit, Appear / Disappear	Tampering	Tampering	Tampering, Virtual line, Enter / Exit, Appear / Disappear, Audio detection, Face detection	Scene change, Virtual line, Enter / Exit, Appear / Disappear
ONVIF	Yes (Profile S)	Yes (Profile S)	Yes (Profile S)	Yes (Profile S)	Yes (Profile S)	Yes (Profile S)
Environmental Protection	N/A	N/A	N/A	N/A	IP66, IK10	IP66, IK10
Operating Temperature	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-40°C ~ +55°C (-40°F ~ +131°F) *Start up should be done at above -35°C	-40°C ~ +55°C (-40°F ~ +131°F) 12V DC, PoE : -10°C ~ +55°C (+14°F ~ +131°F) *Heater works at AC input only
Power	12V DC, PoE (IEEE802.3af class3)	24V AC, 12V DC, PoE (IEEE802.3af)	12V DC, PoE (IEEE802.3af class2)	12V DC, PoE (IEEE802.3af class2)	24V AC, 12V DC, PoE (IEEE802.3af class3)	24V AC, 12V DC, PoE (IEEE802.3af)

Network Camera Selection

	1.3Megapixel			4CIF		
	Vandal-Resistant	IR Vandal-Resistant	PTZ	Box	Dome	Vandal-Resistant
	SNV-5010	SNV-5080R	SNP-5300/5300H	SNB-3002	SND-3082	SNV-3082
						
Imaging Device	1/3" 1.3M PS CMOS	1/3" 1.3M PS CMOS	1/4" 1.3M Exmor CMOS	1/3" Super HAD PS CCD	1/3" Super HAD PS CCD	1/3" Super HAD PS CCD
Min. Illumination (50 IRE)	1Lux	Color : 0.3Lux B/W : 0Lux (IR LED on)	Color : 0.5Lux B/W : 0.03Lux	Color : 0.4Lux B/W : 0.04Lux	Color : 0.4Lux B/W : 0.04Lux	Color : 0.4Lux B/W : 0.04Lux
Day & Night	N/A	Yes (ICR)	Yes (ICR)	Yes (ICR)	Yes (ICR)	Yes (ICR)
Wide Dynamic Range	N/A	N/A	Yes	Yes	Yes	Yes
Analog Video Output	DIP connector type	CVBS 1.0Vp-p	N/A	CVBS 1.0Vp-p	CVBS 1.0Vp-p	CVBS 1.0Vp-p
Lens	3mm fixed	2.8x motorized varifocal (3 ~ 8.5mm)	30x (3.5 ~ 105mm)	Optional	3.9x varifocal (2.8 ~ 11mm)	3.9x varifocal (2.8 ~ 11mm)
Video Compression Format	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG	H.264, MJPEG	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG
Streaming Capability	Multiple streaming (Up to 10 profiles)	Multiple streaming (Up to 10 profiles)	Multiple streaming (Up to 10 profiles)	Multiple streaming (Up to 10 profiles)	Multiple streaming (Up to 10 profiles)	Multiple streaming (Up to 10 profiles)
Streaming Method	Unicast / Multicast	Unicast / Multicast	Unicast / Multicast	Unicast / Multicast	Unicast / Multicast	Unicast / Multicast
Max. Resolution	1280 x 1024	1280 x 1024	1280 x 1024	704 x 480 (704 x 576)	704 x 480 (704 x 576)	704 x 480 (704 x 576)
Max. Frame Rate	30fps at all resolutions	30fps at all resolutions	30fps at all resolutions	30fps(25fps) at all resolutions	30fps(25fps) at all resolutions	30fps(25fps) at all resolutions
Audio I/O	N/A	Bi-directional	Bi-directional	Bi-directional	Bi-directional	Bi-directional
Memory Slot	N/A	Yes (SD/SDHC)	Yes (SD/SDHC)	Yes (SD/SDHC)	Yes (SD/SDHC)	Yes (SD/SDHC)
Alarm I/O	N/A	1 / 1	4 / 2	1 / 1	1 / 1	1 / 1
Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes
Intelligent Video Analytics	Scene change, Virtual line, Enter / Exit, Appear / Disappear	Scene change, Virtual line, Enter / Exit, Appear / Disappear	Tampering, Virtual line, Enter / Exit, Appear / Disappear, Audio detection, Face detection	Tampering	Tampering	Tampering
ONVIF	Yes (Profile S)	Yes (Profile S)	Yes (Profile S)	Yes (Profile S)	Yes (Profile S)	Yes (Profile S)
Environmental Protection	IP66, IK10, EN50155	IP66, IK10	IP66 (SNP-5300H)	N/A	N/A	IP66, IK10
Operating Temperature	-10°C ~ +55°C (+14°F ~ +131°F)	24V AC : -40°C ~ +55°C (-40°F ~ +131°F) 12V DC, PoE : -10°C ~ +55°C (+14°F ~ +131°F) *Heater works at AC input only	-10°C ~ +55°C (+14°F ~ +131°F) (SNP-5300) -30°C ~ +55°C (-22°F ~ +131°F) (Heater on, PoE+) (SNP-5300H) -50°C ~ +55°C (-58°F ~ +131°F) (Heater on, 24V AC) (SNP-5300H)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	24V AC : -40°C ~ +55°C (-40°F ~ +131°F) 12V DC, PoE : -10°C ~ +55°C (+14°F ~ +131°F) *Heater works at AC input only
Power	12V DC, PoE (IEEE802.3af)	24V AC, 12V DC, PoE (IEEE802.3af)	24V AC, PoE+ (IEEE802.3at)	24V AC, 12V DC, PoE (IEEE802.3af)	24V AC, 12V DC, PoE (IEEE802.3af)	24V AC, 12V DC, PoE (IEEE802.3af)

	4CIF				VGA	
	PTZ				Dome	
	SNP-3371TH	SNP-3371	SNP-3302H	SNP-3120	SND-1080	SND-1011
						
Imaging Device	1/4" Ex-view HDD CCD (Double scan)	1/4" Ex-view HDD CCD (Double scan)	1/4" Ex-view HDD CCD (Double scan)	1/4" Ex-view HAD PS CCD	1/4" PS CMOS	1/4" PS CMOS
Min. Illumination (50 IRE)	Color : 0.7Lux B/W : 0.07Lux	Color : 0.7Lux B/W : 0.07Lux	Color : 0.7Lux B/W : 0.07Lux	Color : 0.7Lux B/W : 0.07Lux	0.7Lux	0.7Lux
Day & Night	Yes (ICR)	Yes (ICR)	Yes (ICR)	Yes (ICR)	Yes (Electrical)	Yes (Electrical)
Wide Dynamic Range	Yes	Yes	Yes	Yes	N/A	N/A
Analog Video Output	CVBS 1.0Vp-p	CVBS 1.0Vp-p	CVBS 1.0Vp-p	CVBS 1.0Vp-p	DIP connector type	DIP connector type
Lens	37x (3.5 ~ 129.5mm)	37x (3.5 ~ 129.5mm)	30x (3.5 ~ 105.3mm)	12x (3.69 ~ 44.32mm)	3.5x varifocal (2.2 ~ 7.7mm)	3mm fixed
Video Compression Format	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG	H.264, MJPEG	H.264, MJPEG
Streaming Capability	Multiple streaming (Up to 10 profiles)	Multiple streaming (Up to 10 profiles)	Multiple streaming (Up to 10 profiles)	Multiple streaming (Up to 10 profiles)	Multiple streaming (Up to 10 profiles)	Multiple streaming (Up to 10 profiles)
Streaming Method	Unicast / Multicast	Unicast / Multicast	Unicast / Multicast	Unicast / Multicast	Unicast / Multicast	Unicast / Multicast
Max. Resolution	704 x 480 (704 x 576)	704 x 480 (704 x 576)	704 x 480 (704 x 576)	704 x 480 (704 x 576)	640 x 480	640 x 480
Max. Frame Rate	30fps(25fps) at all resolutions	30fps(25fps) at all resolutions	30fps(25fps) at all resolutions	30fps(25fps) at all resolutions	30fps at all resolutions	30fps at all resolutions
Audio I/O	Bi-directional	Bi-directional	Bi-directional	Bi-directional	Bi-directional	N/A
Memory Slot	Yes (SD/SDHC)	Yes (SD/SDHC)	Yes (SD/SDHC)	Yes (SD/SDHC)	Yes (Micro SD/SDHC)	Yes (Micro SD/SDHC)
Alarm I/O	4 / 2	4 / 2	4 / 2	2 / 2	1 / 0	1 / 0
Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes
Intelligent Video Analytics	Virtual line, Enter / Exit, Appear / Disappear	Virtual line, Enter / Exit, Appear / Disappear	Virtual line, Enter / Exit, Appear / Disappear	Moved / Fixed	Face detection	Face detection
ONVIF	Yes (Profile S)	Yes (Profile S)	Yes (Profile S)	Yes (Profile S)	Yes (Profile S)	Yes (Profile S)
Environmental Protection	IP66, IK10	N/A	IP66, IK10	N/A	N/A	N/A
Operating Temperature	-10°C ~ +55°C (+14°F ~ +131°F) (Heater off) -50°C ~ +55°C (-58°F ~ +131°F) (Heater on, 24V AC) *Heater works at AC input only	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F) (Heater off) -50°C ~ +55°C (-58°F ~ +131°F) (Heater on, 24V AC) *Heater works at AC input only	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)
Power	24V AC, PoE+ (IEEE802.3at)	24V AC, PoE+ (IEEE802.3at)	24V AC, PoE+ (IEEE802.3at)	24V AC, PoE+ (IEEE802.3at)	12V DC, PoE (IEEE802.3af)	12V DC, PoE (IEEE802.3af)

SPD-400

4CH Network Video Decoder

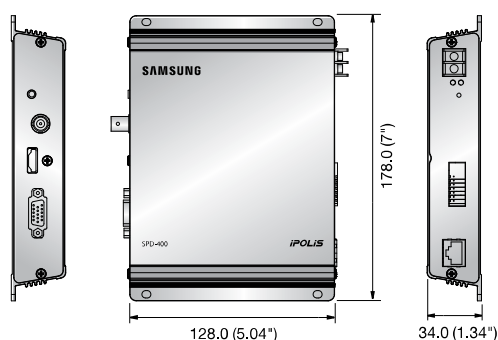


Key Features

- H.264, MPEG-4, MJPEG decoding
- Full HD (1080p) video output
- Single and quad view
- Sequence mode for multiple video sources

Dimensions

Unit : mm (inch)



	SPD-400N	SPD-400P
OPERATIONAL		
Video Out	HDMI / VGA : Max. 1920 x 1080p 1920 x 1080p, 1680 x 1050, 1600 x 900, 1440 x 900, 1280 x 1024, 1280 x 720p, 1024 x 768	
	CVBS : 1.0 Vp-p / 75Ω composite 704 x 480	CVBS : 1.0 Vp-p / 75Ω composite 704 x 576
	HDMI / VGA, CVBS selectable	
Event Trigger	Alarm Input, IP camera event input	
Alarm I/O	Input 1ea / Output 2ea (Relay)	
NETWORK		
Ethernet	RJ-45 (10/100/1000BASE-T)	
Video Compression Format	H.264, MPEG-4, MJPEG	
Resolution	H.264 : Single view - up to 2M pixel / Quad view - up to 720p MPEG-4 : Single view - up to 4CIF / Quad view - Quad up to 4CIF MJPEG : Single view - up to 720p (800 x 600) / Quad view - up to 720p (800 x 600) 1920 x 1080p, 1280 x 1024, 1280 x 720p, 704 x 576, 704 x 480, 640 x 480, 352 x 288, 352 x 240, 320 x 240	
Max. Framerate	Max. 30fps at single view, Max. 120fps at 4 x 4CIF, Max. 60fps at 4 x 720p (No audio)	
Display	Single view, Quad view	
Audio I/O	Line out 1ea	
Audio Compression Format	G.711	
IP	IPv4, IPv6	
Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), NTP, HTTP, DHCP, ICMP, IGMP, ARP, SSL, DNS	
Security	HTTPS(SSL) login authentication, User access log	
Camera Registration	20 camera, 8 layout, 10 sequence	
Support Device	Samsung : Network camera, Encoder Axis : P3301, P3343, P3344, P1311, P1343, P1344, P1346, PTZ215, Q6032, Q7401, Q7404 (F/W ver : 5.x)	
	Stream (Live video / audio) : SVN1.2 (AXIS : RTP/RTSP) Control / Network alarm : SNVP1.2 (AXIS : Not supported)	
Web Viewer	Supported OS : Windows XP Supported Browser : Internet Explorer 7.0 or 8.0, Firefox 2.x, 3.x, Chrome, Safari	

ENVIRONMENTAL

Operating Temperature / Humidity 0°C ~ +40°C (+32°F ~ +104°F) / 0% ~ 90% RH

ELECTRICAL

Input Voltage / Current 12V DC

Power Consumption Max.10W

MECHANICAL

Color / Material Silver / Metal

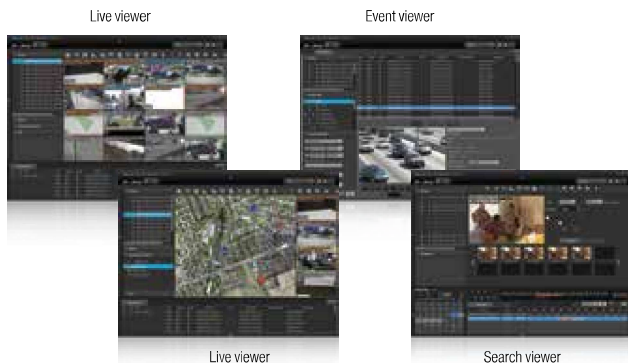
Dimensions (WxHxD) 128.0 x 34.0 x 178.0mm (5.04" x 1.34" x 7")

Weight 530g (1.17 lb)

* The latest product information / specification can be found at www.samsungsecurity.com

SSM (Samsung Security Manager)

Central Management Software



Key Features

- Administration by locations grouped by sites
 - : permission management for viewer functions
 - : site / user group / user account management
- Shows devices registered by users
- Manage multiple layouts tailored for each monitoring location for easier access
- Place video feed at any desired tile with drag-n-drop
- Simple double-clicking adds video feed to the video screen
- Supports simultaneous video display of up to 64 monitoring tiles per monitor
- Up to 4 monitors for 100 monitoring tiles
- Supports sequenced automatic source switching
- Optimized view layouts for 4 : 3 & 16 : 9 screen modes
- Various system actions (output) for events (input) from devices
- Display event log message in real time
- Check details of event searched in the list
- Confirm it to end the event situation
- Manual report which shows all events and their statistics
- Management features for user's login account and privilege based limited accessibility
- Screen lock, User access log for security
- Export / Import the device's settings & SSM information as a file
- Supports remote updating of software using update server

Supported Models

Samsung Security Manager (The latest release version : 1.2)

Network Camera	Box / Dome	SNB-5000, SND-5080/F, SNV-5080, SNV-5010, SNO-5080R, SNV-5080R SNB-7000, SND-7080/F, SNV-7080, SNO-7080R, SNV-7080R SNB-1001, SND-1080, SND-1011, SNV-1080, SNO-1080R, SNV-1080R SNB-3002, SND-3082/F, SNV-3082 SNB-5001, SND-5061, SND-5011, SND-5010 SNB-7001, SND-7061, SND-7011 SNB-7002, SND-7082/F, SNV-7082, SNO-7082R SNZ-5200, SNV-3120, SNV-7082V, SND-7082V, SND-7082FV, SNO-7082RV SNB-6004, SNB-6003, SND-6084, SND-6083, SNB-5004, SNB-5003, SND-5084, SNV-5084, SNV-6012M, SNV-6084, SNO-6011R, SND-6011R SNO-6084R, SND-6084R, SNV-6084R, SNF-7010, SNF-7010V
	PTZ	SNP-3120, SNP-3120V, SNP-3120VH, SNP-5200, SNP-5200H, SNP-5300, SNP-5300H, SNP-3371, SNP-3371H, SNP-3371TH, SNP-3302, SNP-3302H SNP-6200, SNP-6200H, SNP-6200RH, SNP-6201
Encoder		SPE-400/100/101, SPE-1600R
DVR		SRD-1670/1650/1630/1610(D/DC), SRD-870/850/830(D/DC), SRD-470(D) SRD-1652D/852D, 1650DU, SRD-1671/1651/871/851/471 SRD-1673(D)/873D, 1653D, SRD-440/442/1640/840/1641/841
NVR		SRN-470D, SRN-1670D, SRN-1671, SRN-1000, NET-i ware
N/W Controller		SPC-2000
Add on Module		SSM Recording Server (SSM-RS10/RS20) SSM Virtual Matrix (SSM-VM10/VM20)

Samsung Security Manager (Version : 1.2)		
PERFORMANCE		
Video	Supported Format	H.264, MPEG-4, MJPEG
	Supported Resolution	Depending on the device
Audio	Supported Format Functions	G.711 u-law (PCM), G.723, G.726 (ADPCM) Bi-directional audio (Listen / Talk)
	Multi-monitor	Up to 4 monitors (Follow the recommended system requirement)
Live Monitoring	Split-screen Mode	4 : 3 screen modes : 1, 4, 6, 8, 9, 10, 13, 16, 17, 21, 25, 36, 49, 64 16 : 9 screen modes : 6, 12, 20, 30 Full screen mode *While in multi-monitor environment, layouts and split modes for less than 100 channels will be available.
	Sequence Mode	Up to 16-splits per monitor
	PTZ Control	Area zoom, Go to 1x zoom, PTZ sensitivity, Zoom, Patrol, Swing / Autopan, Group / Scan, Trace / Pattern, Preset, Iris control
	360-degree Viewing	Area zoom, Go to 1x zoom, PTZ sensitivity, Zoom, Preset, PTZ / Perimeter / Quad mode (*Need to ImmerVision enables panomorph lens)
	Map Monitoring	Split view mode for map layout, 2D view, Zoom in/out, Video popup (Instant viewer), Camera / Sensor / Alarm icons on the map
	Simple Recording	Recording of the selected video tile up to 1 hour
Search & Playback	Functions	OSD on/off, Snapshot/prints image, Brightness/contrast control, Keep aspect ratio/original size, Deinterlacing, Flip, Digital zoom
	Search Mode	Date, Event, Smart search, POS search based on DVR, NVR, Local folder
	Split-screen Mode	Up to 16 cameras can be played simultaneously
	Video Control	Start/stop, Pause, Faster forward/backward, Step forward/backward, Skip forward/backward
Event Monitoring	Functions	Snapshot / Prints image, Digital zoom
	Back up	Local storage, Back up format (AVI, SEC) Configurable schedule for backup (*Supported model only)
	Real-time Event List	Shows real-time event list of the device (Event status, type, device, user, time(PC)), Viewing instant video image
	Searching Events	SSM : User, System Device : System, Camera, Sensor, Alarm out Camera : Video Loss, Motion, Passing, Entering, Exiting, Disappearing (Appearing), Tampering, Tracking, Face detection, Audio detection
	Reporting	Manual report (Show events and statistics), Print & save function, Format (Excel, PDF, Word)
	Confirming	Set alarm details normal / abnormal / etc, Confirm action
	History	The confirmed details of the selected event from the list
	Instant Viewer	Display the selecting camera, Confirm the event, Record event remarks and end the event status
	Instant Player	Plays the corresponding camera's video image
	Event Action	Define various system actions (output) for events (input) from devices, Action (output) types : Instant viewer, Preset, Alarm out, Pop-up, Sound and e-mail notification

CONFIGURATION

Site / User Management		Site / user group / user account management, Permission management for viewer functions
Device Management		Automatic device IP scanning, Viewing the device settings (Device webpage), Exporting / Importing devices settings, Updating the device firmware
Screen Management	Layouts	Setting / Adding / Deleting layouts, Map / Video layout
	Monitor	Multi monitor, Split screen, Sequence, Using i-frame, Using low-resolution, Deblocking
Environment		OSD display, Date/time, Capture, Recording, Start up, Language, UI auto lock, Log
System Settings		Backup/Restore SSM setups, Restore the default settings
Time Synchronization		NTP server, Client
Update		Automatic self upgrade (Connection to Samsung upgrade server)

GENERAL

Supported Devices		Samsung's N/W camera, Encoder, DVR / NVR
Max. Number of Media Gateways per System		Default 4 media gateway
Max. Number of Cameras per Media Gateway		N/W camera 72CH or DVR / NVR 288CH (36ea)
Max. Number of Clients per Media Gateway		5 clients
Modules		System manager, Media gateway, Console, Service manager, Schedule back up
Language		Total 23 languages support English, French, German, Spanish, Italian, Russian, Chinese, Japanese, Korean, Turkish, Polish, Czech, Serbian, Romanian, Portuguese, Dutch, Croatian, Hungarian, Greek, Swedish, Danish, Finnish, Norwegian
System Requirement	Recommended	CPU Intel i7 (Sandy bridge) above RAM 4GB above, Video memory 1GB above, HDD more than 20GB of free space for installation. (For operation, the system log database requires 10GB or more free space.), DirectX 8.1 above. Display resolution : 1280 x 1024 above, OpenGL compatible
	Minimum	CPU Intel Core 2 Duo 2.83 GHz above, RAM 2GB above, Video memory 512MB
	Operating System	Console (Windows XP 32bit, Windows 7 32/64bit, Windows 8 32/64bit) System manager, Media gateway (Windows XP 32bit, Windows 7 32/64bit, Windows 8 32/64bit, Windows server 2003, Windows server 2008)

* The entire items are not supported in every device. Some items are not supported in certain devices.

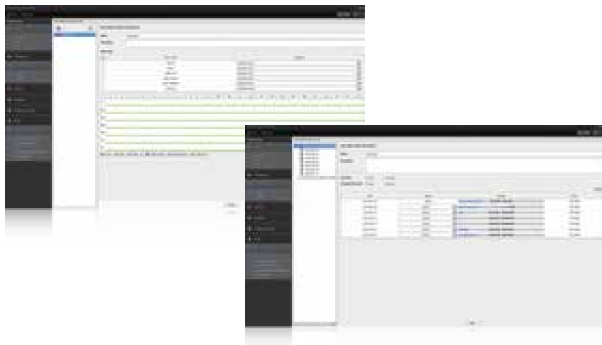
* Recommended system requirement : 64CH connection, 64CH D1 resolution display (using 1PC)

* Minimum system requirement : 16CH connection, 16CH CIF resolution display (using 1PC)

* The latest product information / specification can be found at www.samsungsecurity.com

SSM-RS10/20

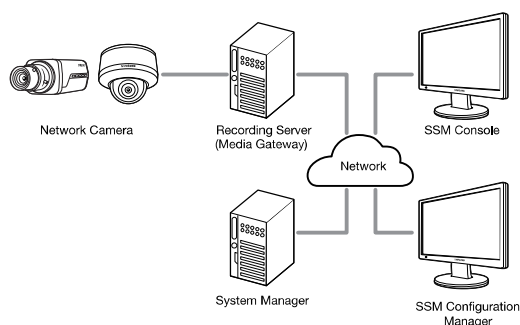
SSM Recording Server



Key Features

- Add on recording module for SSM
 - : Recording setting, live video monitoring and search / playback of recorded video by SSM
- Delivers high performance recording (Up to 400Mbps)
- Playback / back up throughput up to 100Mbps
- Supports various recording options
 - : Continuous recording
 - : Event based recording (including Pre / Post alarm recording) (Motion detection, VA, Video loss, Alarm signal input)
 - : Scheduled recording (Including holiday set up)
- Notification in case of event occurring
 - : User defined alert sound output
 - : E-mail to pre-assigned receiver
 - : Notification to monitoring software (CMS)
- Multiple disk allocation and distribution for stable recording
- Multi-level user access and authority management

System Configuration



		SSM-RS10	SSM-RS20	SSM-RS00
DEVICE				
Supported Device		Samsung's Network Camera, Encoder		
Supported Protocols		Samsung, ONVIF profile S		Samsung
Max. Register Device		36	72	16
PERFORMANCE				
Video	Supported Format	H.264, MJPEG, MJPEG		
	Supported Resolution	Depending on the device		
Audio	Supported Audio Compression Format	G.711 u-law (PCM), G.723, G.726 (ADPCM)		
Recording	Performance	Up to 400Mbps (Four or more HDDs (SATA II 7200rpm) should be used for 400Mbps recording performance)		
	Mode	Manual, Continuous mode, Event (Pre/Post alarm recording) Event & Schedule mode		
	Quality	Depending on the device		
	Pre/Post Record Time	Pre : 1 ~ 18CH 60sec, 19 ~ 36CH 30sec, 37 ~ 72CH 15sec Post : 1200sec (when D1 resolution 30fps)		
	Logs	System, User access, Back up, Recording log, Event log (Motion, Alarm, Video loss, Video analytic, Audio)		
Playback	Performance	Up to 100Mbps, Up to 16CH simultaneously		
	Mode	Time, Event, Timeline		
Storage	Max. Controller of HDD	24HDDs		
	Supported HDD Format	SATA II 7200rpm, e-SATA, SAS, iSCSI		
System	Functions	Storage space assigning by each disk, Warning against lower disk space		
	NIC	NIC is selectable by device connection and client connection type		
	SW Status	Device connection, Manual/Schedule recording status		
	Data Security	Login packet encryption		
	Settings	Initialization / Export / Import		
	Functions	Auto power-on record		
Programs	Time Synchronization	NTP client		
	Configuration Manager	Recording & storage settings, User management, Event action setting, Schedule back up, System settings		
	Console	Live monitoring, Playback, Back up		
GENERAL				
System Requirement (Recommended)		CPU : Intel Core i7 Sandy bridge, RAM : 8GB Video memory : 256MB, 4HDDs (SATA II 7200rpm 64MB) above OS : Windows Server 2008 R2, Windows Server 2012, Windows 7 32/64bit, Windows 8 32/64bit		
System Requirement (Minimum)		CPU : Intel Core i3 Sandy bridge, RAM : 8GB Video memory : 256MB, 2HDDs (SATA II 7200rpm 64MB) above OS : Windows XP SP2, Windows Server 2003 SP2, Windows Vista, Windows Server 2008 R2, Windows Server 2012, Windows 7 32/64bit, Windows 8 32/64bit		

* Only 1 Recording Server connection is available with Samsung Security Manager when use the trial version.

* The latest product information / specification can be found at www.samsungsecurity.com

SSM-VM10/20

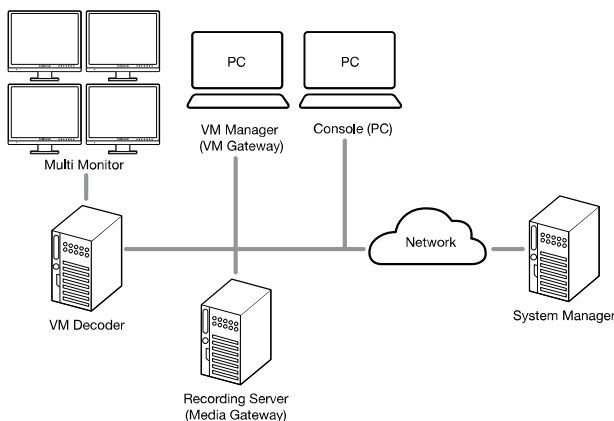
SSM Virtual Matrix



Key Features

- Add on virtual matrix module for SSM
- Multi-screen management solution
- Runs on standard PCs and displays
- Easy set & control through VM manager, Console
- S/W decoding (VM Decoder) & H/W decoding (SPD-400) support
- Setup rules the camera views and layouts
- Event-driven virtual salvo switching
: Wall spot, Monitor spot, Tile spot function
- Live monitoring & map display simultaneously
- Multi-level user access and authority support
- Manually control by easily dragging and dropping cameras into the monitor views

System Configuration



		SSM-VM10	SSM-VM20	SSM-VM00 (for SPD-400)
DEVICE				
Integration software		SSM v1.2		
Max. Number of Monitors		16	36	36 (SPD-400 only)
The Number of Wall per Each Package		Up to 3		
FEATURES				
Video Streams		Receives from SSM (Media gateway module), Depending on the device		Device -> SPD-400 (*See SPD-400 specification)
Live Monitoring	Wall Layout (Multi-monitors)	Depends on VM Manager settings, monitor layout components		
	Monitor Layout (Screen-split mode)	(VM Decoder) 4 : 3 screen modes : 1 / 4 / 6 / 8 / 9 / 10 / 13 / 16 / 17 / 21 / 25 / 36 / 49 / 64 16 : 9 screen modes : 6 / 12 / 20 / 30 Full screen mode *While in multi-monitor environment, layouts and split modes for less than 100 channels will be available. (SPD-400) Depends on SPD-400 - up to quad view		(SPD-400) Depends on SPD-400 - up to quad view
	Sequence Mode	Wall layout group sequence (Duration min : 10sec ~ max : 180sec)		
	Map Monitoring	Split view mode for map layout, 2D/3D view, Zoom in/ out, Camera / Sensor / Alarm icons on the map		N/A
	ETC	OSD off / on, Wall / Monitor setting sync. function		N/A
Event Monitoring		Wall spot, Monitor spot, Tile spot		N/A
VM MANAGER (CONFIGURATION TOOL)				
Max. Number of Managing Wall		3		
Wall Management		Registration and allocation decoder to wall monitor Registration wall layout, Wall sequence		
Event Management (Include Spot Setting)		When event occurs, Automatic wall layout or monitor layout or tile layout can be displayed to wall according to pre-setting. These are called wall spot, Monitor spot, Tile spot. Event settings (V-loss, MD, Passing, Entering, Exiting, Appear/Disappear, Tampering, Tracking, Face detection, Audio detection, depending on the device)		N/A
Functions		Using I-frame option, Using low resolution option		N/A
Update		Automatic self upgrade (Connection to Samsung upgrade server)		
GENERAL				
Modules		Providing three types, VM manager, VM gateway and VM decoder		VM manager, VM gateway, SPD-400
	VM Manager	Configuration tool of virtual matrix, which can manage up to three walls		
	VM Gateway	Managing module of VM decoders and SPD-400 (H/W Decoder) simultaneously, VM gateway also handles commands and license checking		Managing module of SPD-400 (H/W decoder) only
	VM Decoder	VM Decoder is a video decoding module, one PC installed VM Decoder is control up to 4 monitors, up to 100 channels		N/A
Language		Total 23 languages support English, French, German, Spanish, Italian, Russian, Chinese, Japanese, Korean, Turkish, Polish, Czech, Serbian, Romanian, Portuguese, Dutch, Croatian, Hungarian, Greek, Swedish, Danish, Finnish, Norwegian, Bulgarian		
System Requirement	Recommended	CPU Intel i7 (Sandy bridge) above RAM 4 GB above, Video memory 1GB above, DirectX 8.1 above. Display resolution : 1,280 x 1,024 above, OpenGL compatible, HDD More than 20 GB of free space for installation. (For operation, the system log database requires 10 GB or more free space.)		
	Minimum	CPU Intel i5 above, RAM 4GB above, Video memory 512MB		
	Operating System	Windows 7 (32bit, 64bit), Windows 8(32bit, 64bit)		

* SSM-VM series are add-on module when using SSM, thus after SSM setting's complete, SSM-VM series should be installed.

* The latest product information / specification can be found at www.samsungsecurity.com

SSM mobile

SSM Mobile viewer for Android / iOS



Key Features

- Local / remote connection to SSM (Samsung Security Manager)
- View layout / device list by user
- View live streaming video with PTZ control
- Supported format : H.264/MJPEG
- Video image flip / mirror, Video image capture
- Calendar search / playback / bookmark functions
- Password function for security
- Quick & easy access at mobile environment & WIFI networks.
- Compatible with "Dynamic Domain Naming Service" (DDNS)
- Multi-language

* For running the app, Samsung Security Manager should be installed in your PC.

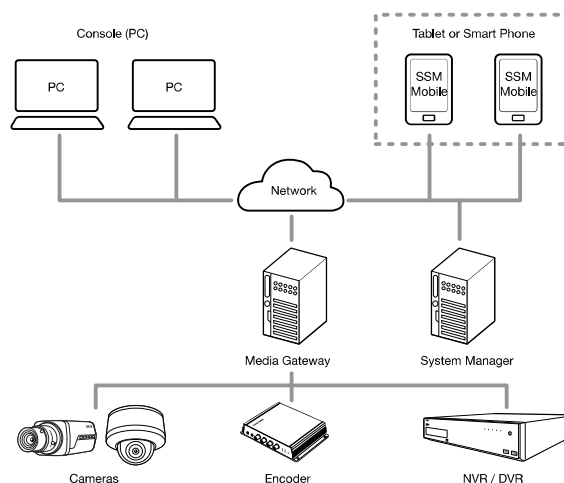
* The SSM mobile application can be downloaded freely and installed from Google play & Apple app store.

SSM mobile (Version : 1.1)		
DEVICE		
Supported Device		Samsung Security Manager
PERFORMANCE		
Video	Supported Format	H.264, MJPEG
	Supported Resolution	Up to 1280 x 1024 resolution
Audio	Supported Format	G.711 u-law (PCM), G.726 (ADPCM)
	Functions	Listen (1CH)
Live Monitoring	View List	Providing the layout list and the device list according to SSM user authority
	Screen-split Mode	1CH / 4CH
	View Mode	Vertical, Horizontal
	PTZ Control	Pan, Tilt, Zoom, Focus (Encoder / DVR only), Preset
	Functions	Flip, Capture, Digital zoom (16x), Display the network traffic status
Search & Playback	Search Mode	Date/time
	Playback Mode	1CH only, 8x playback speed
	Functions	Bookmark
Security		Password
GENERAL		
Language		Total 23 languages support English, French, German, Spanish, Italian, Russian, Chinese, Japanese, Korean, Turkish, Polish, Czech, Serbian, Romanian, Portuguese, Dutch, Croatian, Hungarian, Greek, Swedish, Danish, Finnish, Norwegian
Mobile Device Requirement	Recommended	CPU 1.4GHz, RAM 2G, Available RAM 1G or more, Network 3G, 4G(LTE), Wi-Fi
	Operating System	Android OS 2.3.x, 4.0.x, 4.1.x and 4.2.x iOS 5.1.1, 6.0, 6.1 and 6.1.3
Tested Mobile Devices		This application had been tested for listed devices : Android : Samsung Galaxy S2 (Android v2.3.5) series : Samsung Galaxy S3 (Android v4.1.2) series : Samsung Galaxy S4 (Android v4.2.2) series : Samsung Galaxy Note (Android v4.0.4) series : Samsung Galaxy Note 10.1 (Android v4.1.2) series iOS : Apple iPhone 4 (iOS v6.1) model : Apple iPhone 5 (iOS v6.1.4, v7.0.2) model : Apple iPad 2 (iOS v5.1.1) model : Apple New iPad (iOS v6.1.3) model : Apple iPad 4 (iOS v7.0.2) model

* For proper monitoring with SSM mobile on your device, the device should suffice minimum requirements.
* The latest product information / specification can be found at www.samsungsecurity.com

System Configuration

SSM Client



SmartViewer

Easy Central Management Software



Key Features

- Up to 36 cameras monitoring from the connected cameras
- Support for full screen mode
- Drag & drop camera selection
- 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
- Support for range back up (Integrated viewer)
- Search for and play recording data in the DVR, NVR, which are sorted by the event type
- User login & access privilege set up
- Save device configuration and smart viewer configuration as a file
- Log search (Search by the system, User, Record or back up log, etc)
- Remote update using the update server

Supported Models

SmartViewer

Network Camera	Box	SNB-7002/7001/7000/5001/6004/6003/5000/3000/2000/1000/1001/3002 SNZ-5200, SNO-7080R/6084R/5080R/1080R
	Dome	SND-7082/7080/7061/7011/6084/6083/5080(F)/5061/5011/3080(F)/1010/1080/1011/3082/6084R SNV-7082(F)/7080/5080/3080/5010/3120/3082/1080/7080R/6084R/5080R/1080R
	PTZ	SNP-SNP-6200(H)/5300(H)/5200(H)/3430H/3370(H)/3301(H)/3120(V/H)/3302(H)
Encoder		SPE-400/100/101, SPE-1600R
DVR		SRD-1670(D/DC)/1650(D/DC)/870(D/DC)/850(D/DC)/470(D)/440
		SRD-1630(D)/1610(D)/830(D)
NVR (H/W)		SRD-1652D/852D, SRD-480D, SRD-442, SRD-1640/840
		SRN-1670D/470D, SRN-1000

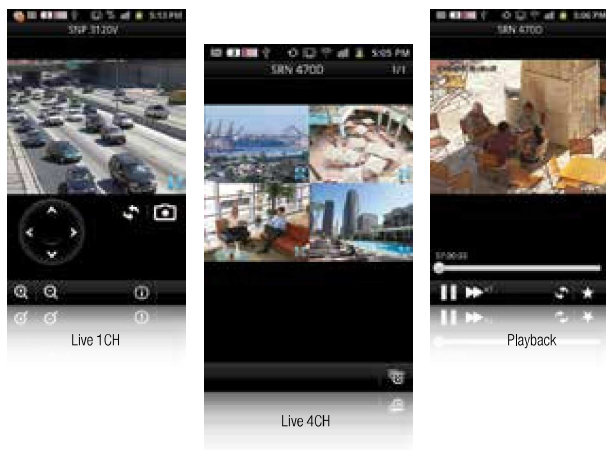
		SmartViewer
PERFORMANCE		
Video	Supported Format	H.264, MPEG-4, MJPEG
	Supported Resolution	Depending on the device
Audio	Supported Format	G.711 u-law (PCM), G.723, G.726 (ADPCM)
	Functions	Bi-directional audio (Listen / Talk)
Live Monitoring	Split-screen Mode	(16 : 9) 1, 4, 9, 16, 25, 36 (Full screen) (4 : 3) 1, 6, 12, 20, 30 (Full screen)
	Sequence Mode	Up to 16-splits
	PTZ Control	Area zoom, Zoom, Swing / Autopan, Group / Scan, Trace / Pattern, Preset, Iris / focus control
	Simple Recording	Recording of the selected video tile up to 2hours (SEC, AVI)
	Favorite List	Favorite view (Save the current split mode setting), Sequence of the favorite list
	Functions	OSD on/off, Snapshot/prints image, Brightness/contrast control, Keep aspect ratio, Deinterlacing, Digital zoom, Defog
Search & Playback	Search Mode	Date, Event, POS search based on DVR, NVR
	Split-screen Mode	Up to 16 cameras can be played simultaneously
	Video Control	Start/stop, Pause, Faster/slower forward/backward, Step forward/backward, Skip forward/backward
	Functions	Snapshot / Prints image, Digital zoom
	Back up	Local storage, Back up format (SEC, AVI)
Event Monitoring	Real-time Event List	Shows real-time event list of the device (Event status, type, device, user, time(PC)), Viewing instant video image
	Searching Events	Recording type : Manual / schedule Event type : Sensor, Video Loss, Motion, VA (Passing, Entering, Exiting, Disappearing (Appearing), Tampering, Tracking, Face detection, Audio detection)
	History	Support Log Search
	Instant Player	Plays the corresponding camera's video image (DVR / NVR)
	Event Action	Sound, Instant player pop-up
CONFIGURATION		
User Management		Admin 1, User 20
Device Management		Automatic device IP scanning, Viewing the device settings (Device webpage), Exporting / Importing devices settings, Updating the device firmware
Environment		OSD display, Date/Time, Capture, Recording, Sequence, Receive events, Language
System Settings		Exporting / Importing SmartViewer settings
Update		Automatic self upgrade (Connection to Samsung upgrade server)
GENERAL		
Supported Devices		Samsung's N/W camera, Encoder, DVR / NVR
Connections (by group)	N/W Product	Up to 36 channels
	DVR	Up to 16 devices
Language		Total 24 languages support English, French, German, Spanish, Italian, Russian, Chinese, Japanese, Korean, Turkish, Polish, Czech, Serbian, Romanian, Portuguese, Dutch, Croatian, Hungarian, Greek, Taiwanese, Swedish, Danish, Finnish, Norwegian
System Requirement	Recommended	CPU Intel i7 (Sandy bridge) above RAM 4 GB above, Video memory 1GB above, HDD more than 20 GB of free space for installation, DirectX 9.0 above. Display resolution : 1024 x 768 above, OpenGL compatible
	Minimum	CPU Intel i3 above, RAM 3GB above, Video memory 512GB above, HDD 200GB above, DirectX 9.0 above. Display resolution : 1024 x 768 above, OpenGL compatible
	Operating System	Window XP Professional SP2, Windows Vista Business/Ultimate, Windows 7 32/64bit, Windows 8 32/64bit

* The entire items are not supported in every device. Some items are not supported in certain devices.

* The latest product information / specification can be found at www.samsungsecurity.com

iPOLiS mobile

Mobile viewer for Android / iOS



Key Features

- Smartphone app for Samsung network device monitoring
- View live streaming video with PTZ control
- Supported format : H.264/MJPEG
- Video image flip / mirror, Video image capture
- Calendar search / playback / bookmark functions for DVRs / NVRs
- Provide the profile selection (N/W camera)
- Password lock for security
- Register up to 100 devices
- Quick & easy access at mobile environment & Wi-Fi networks
- Compatible with DDNS (Dynamic Domain Naming Service)
- Multi-language support

* The iPOLiS mobile application can be downloaded freely and installed from Google play & Apple app store.

iPOLiS mobile (Version : 2.3.3)		
DEVICE		
Supported Device		Network camera, Encoder, DVR, NVR
Simultaneous Connection		1
Max. Register Device		Up to 100
PERFORMANCE		
Video	Supported Format	Network camera, NVR : H.264, MJPEG DVR : H.264
	Supported Resolution	Up to 1280 x 1024 resolution
Audio	Supported Format	G.711 u-law (PCM), G.726 (ADPCM)
	Functions	Listen (1CH)
Live Monitoring	Screen-split Mode	Network camera : 1CH DVR / NVR : 1CH / 4CH
	View Mode	Vertical, Horizontal
	PTZ Control	Pan, Tilt, Zoom, Focus (Encoder / DVR only)
	Functions	Flip, Capture, Digital zoom (16x), Display the network traffic status
Search & Playback	Search Mode	Date/time, Event
	Playback Mode	1CH only, 8x playback speed
	Functions	Bookmark
Security		Password
GENERAL		
Language		Total 23 languages support English, French, German, Spanish, Italian, Russian, Chinese, Japanese, Korean, Turkish, Polish, Czech, Serbian, Romanian, Portuguese, Dutch, Croatian, Hungarian, Greek, Swedish, Danish, Finnish, Norwegian
Mobile Device Requirement	Recommended	CPU 1.4GHz, RAM 2G, Available RAM 1G or more, Network 3G, 4G(LTE), Wi-Fi
	Operating System	Android OS 2.3.x, 4.0.x, 4.1.x and 4.2.x iOS 5.1.1, 6.0, 6.1 and 6.1.3
Tested Mobile Devices		This application had been tested for listed devices : Android : Samsung Galaxy S3 (Android v4.1.2) series : Samsung Galaxy S4 (Android v4.2.2) series : Samsung Galaxy Note (Android v4.1.2) series : Samsung Galaxy Note 10.1 (Android v4.1.2) series iOS : Apple iPhone 4 (iOS v6.1) model : Apple iPhone 5 (iOS v6.1.3) model : Apple iPad 2 (iOS v5.1.1) model : Apple iPad 4 (iOS v6.0) model

* For proper monitoring with iPOLiS mobile on your device, the device should suffice minimum requirements.

* The latest product information / specification can be found at www.samsungsecurity.com

Supported Models

iPOLiS mobile (The latest release version : 2.3.3)

Device Model			Firmware Version
Network Camera	Box / Dome	SNB-5000, SND-5080(F), SNV-5080/5010/5080R, SNO-5080R	v2.10 or higher
		SNB-7000, SND-7080(F), SNV-7080/7080R, SNO-7080R	v1.20 or higher
		SNB-1001, SND-1080/1011, SNV-1080/1080R, SNO-1080R	v1.00 or higher
		SNB-3002, SND-3082(F), SNV-3082	v1.00 or higher
		SNB-5001, SND-5061/5011/5010	v1.00 or higher
		SNB-7001, SND-7061/7011	v1.00 or higher
		SNB-7002, SND-7082/F, SNV-7082, SNO-7082R	v1.00 or higher
		SNZ-5200	v1.05 or higher
	PTZ	SNV-3120	v1.24 or higher
		SNV-7082V, SND-7082V, SND-7082FV, SNO-7082RV	v1.00 or higher
		SNB-6004/6003, SND-6084/6083, SNB-5004/5003, SND-5084	
		SNV-6084/5084, SNV-6012M, SNO-6011R, SND-6011R	v1.00 or higher
		SNO-6084R, SND-6084R, SNV-6084R	v1.00 or higher
		SNF-7010/7010V	v1.00 or higher
		SNP-3120/3120V/3120VH	v1.27 or higher
		SNP-5200/5200H	v2.00 or higher
Encoder		SNP-5300/5300H	v1.00 or higher
		SNP-3371/3371H/3371TH	v1.01 or higher
		SNP-3302/3302H	v1.01 or higher
		SNP-6200/6200H/6200RH/6201	v1.00 or higher
DVR	Live & Playback	SPE-400/100/101/1600R	v1.04 or higher
		SRD-1670/1650/1630/1610(D/DC)/870/850/830(D/DC)/470(D)	v1.12 or higher
		SRD-1652D/852D/1650DU	v1.12 or higher
		SRD-1671/1651/871/851/471	v1.12 or higher
	Live Only	SRD-1673(D)/873D/1653D	v1.01 or higher
		SRD-440	v1.05 or higher
NVR	H/W S/W	SRD-442	v1.02 or higher
		SRD-1640/840/1641/841	v1.03 or higher
		SRN-470D/1670D/1671/1000	v1.05 or higher
		NET-i ware	v1.39 or higher

SPC-2000

Network Controller



Key Features

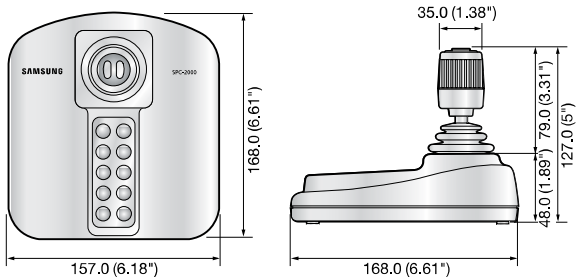
- Superior system compatibility
- 3D joystick control
- Quick and easy installation
- SSM support

Dimensions

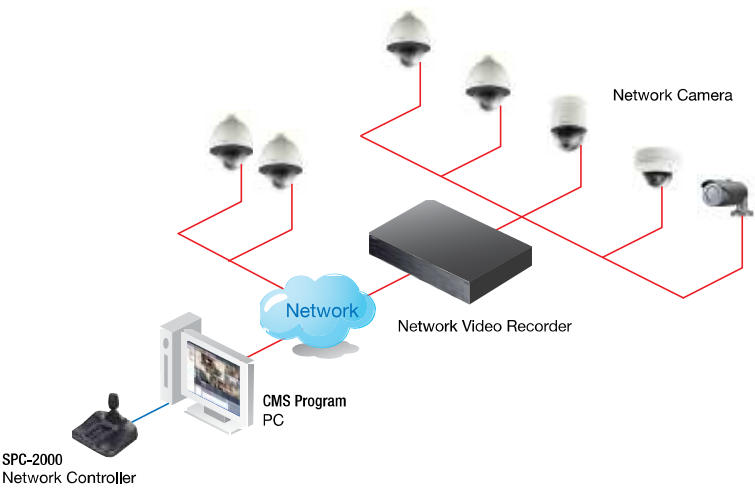
Unit : mm (inch)

	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)

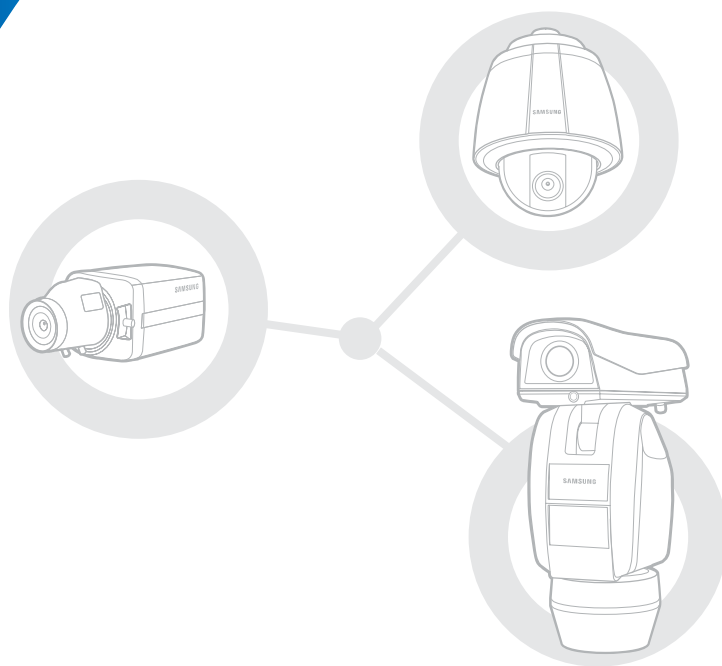
* The latest product information / specification can be found at www.samsungsecurity.com



System Configuration



SAMSUNG TOTAL SECURITY SOLUTIONS



ANALOGUE CAMERA

Core Analogue DSP Technology

CCTV systems' requirements depend upon the application where they will be installed. Samsung has equipped its CCTV Cameras with a set of helpful functions that are integrated in the DSPs. There are three types of DSPs; SV-V, A1 and W-V, which Samsung has designed with the core features already in place.



SV-V

The SV-V DSP chipset feature state-of-the-art technologies that provide the greatest benefit in video surveillance. This powerful tool ensures users reap the maximum advantage that allows it devices to be deployed in a wide range of applications including; car parks, industrial estates, petrol forecourts, schools, hospitals, retail parks, airports and ports.



A1

The A1 DSP chipset features state-of-the-art technologies similar to the SV-V DSP, to offer the maximum benefit for video surveillance. It provides users with a powerful tool to ensure that they achieve maximum benefit from surveillance systems that are deployed in a wide range of applications including car parks, industrial estates, petrol forecourts, schools, hospitals, retail parks, airports and ports.



WV/WVI

Samsung's representative DSP is the engine that brings out the best performance from standard CCTV camera. This unique DSP provides advanced features as 2D/3D noise filtering and digital image stabilization to ensure the highest image quality and other essential functions for effective video surveillance.

1
700/650/
600TV lines

2 3
SSDR
(Samsung Super Dynamic Range)
XDR
(eXtended Dynamic Range)

4 5
SSNRIII
(Samsung Super Noise ReductionIII)
Motion Adaptive DNR
(Motion Adaptive
Digital Noise Reduction)

6
DIS
(Digital Image
Stabilization)

7
VPS (Virtual
Progressive Scan)

8
Polygonal Mask

9
Camera Control
via
Coaxial Cable

10
Intelligent Video
Analytics
(Fixed/Moved/Area/
Fence/Tracking/
Detection/Counting)

10
Intelligent Video
Analytics
(Fixed/Moved/Area/
Fence/Tracking/
Detection)

Core Analogue DSP Technology

1 700TV lines

The cameras equipped with A1, SV-V, and W-V DSP chipset all deliver superb image clarity and detail for all applications. Especially, an advanced resolution of 700TV lines is featured in selected SV-V models providing outstanding image quality.



Conventional Camera

700TV lines

2 SDR (Samsung Super Dynamic Range)

Useful in high contrast or backlight scene. Automatically lightens the dark areas within a scene whilst maintaining the brighter areas at the same level. This ensures that the dark areas become more viewable allowing the operator to view objects in the shadows.



SSDR Off

SSDR On

3 XDR (eXtended Dynamic Range)

The XDR function is useful in high contrast or backlight scene. Automatically lightens the dark areas within a scene whilst maintaining the brighter areas at the same level. This ensures that the dark areas become more visible allowing the operator to view objects in the shadows.

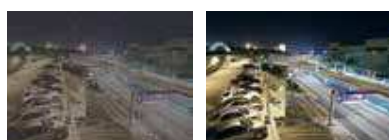


XDR Off

XDR On

4 SSNR III (Samsung Super Noise Reduction III)

The 3rd generation of SSNR can be used in low light condition to enhance the image quality. This technology eliminates image noise in low light conditions without creating image blur or ghosting.



SSNR III Off

SSNR III On

5 Motion Adaptive DNR (Digital Noise Reduction)

The Motion Adaptive DNR function can be used in low light condition to enhance the image quality. This technology eliminates image noise in low light conditions without creating image blur or ghosting.



DNR Off

DNR On

6 DIS (Digital Image Stabilization)

The DIS function helps to negate the effects of a camera shaking due to high winds or building vibration.



DIS Off

DIS On

7 Virtual Progressive Scan

Virtual progressive scan provides a flawless clean frame every time, thus preventing motion artifacts spoiling the quality of video from fast moving objects.



Interlace Transmission (Delayed edge)

VPS Transmission (Clear edge)

8 Polygonal Mask

The SV-V/A1 cameras support polygonal shaped privacy masks so that it efficiently prevents invasion of privacy under various surveillance environments, without masking too much of the scene.



Polygonal Masking Off

Polygonal Masking On

9 Camera Control via Coaxial Cable

This function enables access to the camera menu settings without connecting any other control cables to the camera. This technology allows for camera set up (including the lens focus of the SCD-3083 & SCV-3083 only) to be performed remotely, thus simplifying the installation process. It also allow for the control of Samsung PTZ domes from a coaxial control enabled DVR.



10 Intelligent Video Analytics

The Samsung SV-V/A1 series of cameras also provide a built-in intelligent video analytics capability. Operational modes include :

- Fixed/Moved : The Fixed, senses when objects have appeared and remained in a scene for longer than a pre-determined period and the Moved detects objects removed from a scene.
- Fence : Two modes can be set on the Fence function. Area mode provides a virtual electronic area and the Line mode provides a virtual directional line on the scene that generates an alarm in the event of a breach of that area or a crossing of the directional line.
- Tracking : Tracks an object through the scene and generates an alarm in the event of abnormal directional changes.
- Motion Detection : The Motion detection analyzes successive frames of video and detects movement in the scene. Users can set the level of thresholds to prevent or reduce false alarms and the camera can generate alert if the type or level of motion crosses these thresholds.
- Counting : Provides a count of the objects passing in a pre-determined direction. (SV-V)

Analogue Camera Selection

	Box					
	SCB-4000	SCB-3003	SCB-3001	SCB-3000	SCB-2005	SCB-2004
						
Imaging Device	1/2" Ex-view HAD CCD	1/3" Super HAD CCD II (Double scan)	1/3" Super HAD CCD II (Double scan)	1/3" Super HAD CCD (Double scan)	1/3" Super HAD CCD II	1/3" Super HAD CCD II
Min. Illumination (50 IRE)	Color : 0.1Lux, B/W : 0.01Lux	Color : 0.1Lux, B/W : 0.01Lux	Color : 0.1Lux, B/W : 0.01Lux	Color : 0.3Lux, B/W : 0.01Lux	Color : 0.1Lux	Color : 0.1Lux
Lens (Mount)	Optional (C / CS)	Optional (C / CS)	Optional (C / CS)	Optional (C / CS)	Optional (C / CS)	Optional (C / CS)
Horizontal Resolution	Color : 600TV lines	Color : 700TV lines	Color : 650TV lines	Color : 600TV lines	Color : 700TV lines	Color : 700TV lines
Day & Night	Yes (ICR)	Yes (ICR)	Yes (ICR)	Yes (ICR)	Yes (ICR)	Yes (Electrical)
Wide Dynamic Range	N/A	Yes	Yes	Yes	N/A	N/A
Alarm I/O	0 / 1	0 / 1	0 / 1	0 / 1	N/A	N/A
Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes
Intelligent Video Analytics	Fixed / Moved, Fence (Line, Area)	Fixed / Moved, Fence, Tracking, Counting	Fixed / Moved, Fence, Tracking, Counting	Fixed / Moved, Fence, Tracking, Counting	N/A	N/A
Digital Image Stabilization	Yes	Yes	Yes	Yes	N/A	N/A
Coax Control	CCVC	Pelco-C	Pelco-C	Pelco-C	Pelco-C	Pelco-C
RS-485 Control	Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon, GE	Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon	Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon	Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon	N/A	N/A
Operating Temperature	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)
Power	Dual (24V AC & 12V DC), 230V AC	Dual (24V AC & 12V DC), 230V AC	Dual (24V AC & 12V DC), 230V AC	Dual (24V AC & 12V DC), 230V AC	Dual (24V AC & 12V DC), 12V DC	Dual (24V AC & 12V DC), 12V DC

	Box				Zoom Box	
	SCB-2001	SCB-2000	SCB-1001	SCB-3020	SCZ-3430	SCZ-3370
						
Imaging Device	1/3" Super HAD CCD II	1/3" Super HAD CCD II	1/3" Super HAD CCD II	1/3" Super HAD CCD (Double scan)	1/4" Ex-view HAD CCD (Double scan)	1/4" Ex-view HAD CCD (Double scan)
Min. Illumination (50 IRE)	Color : 0.05Lux, B/W : 0.01Lux	Color : 0.05Lux	Color : 0.1Lux	Color : 0.45Lux	Color : 0.7Lux, B/W : 0.07Lux	Color : 0.7Lux, B/W : 0.07Lux
Lens (Mount)	Optional (C / CS)	Optional (C / CS)	Optional (C / CS)	3.7mm fixed	43x (3.2 ~ 138.5mm)	37x (3.5 ~ 129.5mm)
Horizontal Resolution	Color : 600TV lines	Color : 600TV lines	Color : 600TV lines	Color : 600TV lines	Color : 600TV lines	Color : 600TV lines
Day & Night	Yes (ICR)	Yes (Electrical)	Yes (Electrical)	Yes (Electrical)	Yes (ICR)	Yes (ICR)
Wide Dynamic Range	N/A	N/A	N/A	Yes	Yes	Yes
Alarm I/O	0 / 1	N/A	N/A	0 / 1	0 / 1	0 / 1
Motion Detection	Yes	Yes	N/A	Yes	Yes	Yes
Intelligent Video Analytics	Fixed / Moved, Fence (Line, Area)	N/A	N/A	Fixed / Moved, Fence (Line, Area)	Fixed / Moved	Fixed / Moved, Tracking, Fence, Counting
Digital Image Stabilization	Yes	Yes	Yes	Yes	Yes	Yes
Coax Control	CCVC	Pelco-C	Pelco-C	CCVC	CCVC	Pelco-C
RS-485 Control	Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon, GE	N/A	N/A	N/A	Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon	Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon, AD
Operating Temperature	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)
Power	Dual (24V AC & 12V DC), 230V AC	Dual (24V AC & 12V DC), 12V DC, 230V AC	Dual (24V AC & 12V DC), 12V DC	12V DC	Dual (24V AC & 12V DC), 12V DC	Dual (24V AC & 12V DC), 12V DC

	Zoom Box				Bullet
	SCZ-2370	SCZ-2373	SCZ-2273	SCZ-2250	SCO-2080
					
Imaging Device	1/3" Super HAD CCD II	1/4" Sony 960H Ex-view HAD CCD II	1/4" Sony 960H Ex-view HAD CCD II	1/4" Super HAD CCD II	1/3" Super HAD CCD II
Min. Illumination (50 IRE)	Color : 0.2Lux, B/W : 0.02Lux	Color : 0.2Lux, B/W : 0.01Lux	Color : 0.2Lux, B/W : 0.01Lux	Color : 0.2Lux, B/W : 0.02Lux	Color : 0.15Lux, B/W : 0.001Lux
Lens (Mount)	37x (3.5 ~ 129.5mm)	37x (3.5 ~ 129.5mm)	27x (3.5 ~ 94.5mm)	25x (3.66 ~ 91.36mm)	3.6x varifocal (2.8 ~ 10mm)
Horizontal Resolution	Color : 600TV lines	Color : 680TV lines	Color : 680TV lines	Color : 600TV lines	Color : 600TV lines
Day & Night	Yes (ICR)	Yes (ICR)	Yes (ICR)	Yes (ICR)	Yes (ICR)
Wide Dynamic Range	N/A	N/A	N/A	N/A	N/A
Alarm I/O	N/A	N/A	N/A	0 / 1	N/A
Motion Detection	Yes	Yes	Yes	Yes	Yes
Intelligent Video Analytics	N/A	N/A	N/A	Fixed / Moved	N/A
Digital Image Stabilization	Yes	Yes	Yes	Yes	Yes
Coax Control	Pelco-C	Pelco-C	Pelco-C	CCVC	Pelco-C
RS-485 Control	Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon, AD	Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon, AD	Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon, AD	Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon	Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon
Operating Temperature	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)
Power	Dual (24V AC & 12V DC), 12V DC	Dual (24V AC & 12V DC)	Dual (24V AC & 12V DC)	Dual (24V AC & 12V DC), 12V DC	Dual (24V AC & 12V DC)

Analogue Camera Selection

	IR Bullet					Dome
	SCO-2081R	SCO-2040R/2030R	SCO-2120R	SCO-2080R	SCO-1020R	SCD-3083
						
Imaging Device	1/3" Super HAD CCD II	1/3" CMOS	1/4" Super HAD CCD II	1/3" Super HAD CCD II	1/4" CMOS	1/3" Super HAD CCD II (Double scan)
Min. Illumination (50 IRE)	Color : 0.15Lux B/W : 0Lux (IR LED on)	0Lux (IR LED on)	Color : 0.2Lux B/W : 0Lux (IR LED on)	Color : 0.15Lux B/W : 0Lux (IR LED on)	0Lux (IR LED on)	Color : 0.1Lux B/W : 0.01Lux
Lens (Mount)	3.6x varifocal (2.8 ~ 10mm)	8mm / 6mm fixed	12x (3.94 ~ 46.05mm)	3.6x varifocal (2.8 ~ 10mm)	3.6mm fixed	2.8x motorized varifocal (3 ~ 8.5mm)
Horizontal Resolution	Color : 700TV lines	Color : 650TV lines	Color : 600TV lines	Color : 600TV lines	Color : 520TV lines	Color : 700TV lines
Day & Night	Yes (ICR)	Yes	Yes (ICR)	Yes (ICR)	Yes (Electrical)	Yes (ICR)
Wide Dynamic Range	N/A	N/A	N/A	N/A	N/A	Yes
Alarm I/O	N/A	N/A	N/A	N/A	N/A	0 / 1
Motion Detection	Yes	N/A	Yes	Yes	N/A	Yes
Intelligent Video Analytics	N/A	N/A	N/A	N/A	N/A	Fixed / Moved, Area, Fence, Detection, Counting
Digital Image Stabilization	Yes	N/A	Yes	Yes	N/A	Yes
Coax Control	Pelco-C	N/A	Pelco-C	Pelco-C	N/A	Pelco-C
RS-485 Control	N/A	N/A	Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon, AD	Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon	N/A	N/A
IR Range	50m (164ft)	25m (82ft)	70m (230ft)	50m (164ft)	15m (49ft)	N/A
Installation Type	N/A	N/A	N/A	N/A	N/A	Surface
Environmental Protection	IP66	IP66	IP66	IP66	IP66	N/A
Operating Temperature	-10°C ~ +55°C (+14°F ~ +131°F)	0°C ~ +55°C (+32°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F) : SCO-2080R	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)
Power	Dual (24V AC & 12V DC)	12V DC	Dual (24V AC & 12V DC)	Dual (24V AC & 12V DC)	12V DC	Dual (24V AC & 12V DC)

	Dome					
	SCD-3080	SCD-2080	SCD-2080E/2060E	SCD-2082	SCD-2022	SCD-2020
						
Imaging Device	1/3" Super HAD CCD (Double scan)	1/3" Super HAD CCD II	1/3" Super HAD CCD II	1/3" Super HAD CCD II	1/3" Super HAD CCD II	1/3" Super HAD CCD II
Min. Illumination (50 IRE)	Color : 0.3Lux B/W : 0.01Lux	Color : 0.15Lux B/W : 0.001Lux	Color : 0.15Lux	Color : 0.1Lux	Color : 0.15Lux	Color : 0.15Lux
Lens (Mount)	3.9x varifocal (2.8 ~ 11mm)	3.6x varifocal (2.8 ~ 10mm)	3.6x varifocal (2.8 ~ 10mm) / 2.4x varifocal (2.5 ~ 6mm)	3.6x varifocal (2.8 ~ 10mm)	3.8mm fixed	3.7mm fixed
Horizontal Resolution	Color : 600TV lines	Color : 600TV lines	Color : 600TV lines	Color : 700TV lines	Color : 700TV lines	Color : 600TV lines
Day & Night	Yes (ICR)	Yes (ICR)	Yes (Electrical)	Yes (Electrical)	Yes (Electrical)	Yes (Electrical)
Wide Dynamic Range	Yes	N/A	N/A	N/A	N/A	N/A
Alarm I/O	0 / 1	N/A	N/A	N/A	N/A	N/A
Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes
Intelligent Video Analytics	Fixed / Moved, Fence, Tracking, Counting	N/A	N/A	N/A	N/A	N/A
Digital Image Stabilization	Yes	Yes	Yes	N/A	N/A	Yes
Coax Control	Pelco-C	Pelco-C	Pelco-C	Pelco-C	Pelco-C	Pelco-C
Installation Type	Surface	Surface	Surface	Surface	Surface	Surface
Operating Temperature	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)
Power	Dual (24V AC & 12V DC)	Dual (24V AC & 12V DC)	Dual (24V AC & 12V DC)	Dual (24V AC & 12V DC)	12V DC	Dual (24V AC & 12V DC)

	Dome				IR Dome	
	SCD-2010	SCD-2010F	SCD-1080	SCD-1020	SCD-2080R	SCD-2021R
						
Imaging Device	1/3" Super HAD CCD II	1/3" Super HAD CCD II	1/3" Super HAD CCD II	1/3" Super HAD CCD II	1/3" Super HAD CCD II	1/3" CMOS
Min. Illumination (50 IRE)	Color : 0.04Lux	Color : 0.04Lux	Color : 0.15Lux	Color : 0.15Lux	Color : 0.15Lux B/W : 0Lux (IR LED on)	0Lux (IR LED on)
Lens (Mount)	3mm fixed	3mm fixed	3.6x varifocal (2.8 ~ 10mm)	3.6mm fixed	3.6x varifocal (2.8 ~ 10mm)	3.6mm fixed
Horizontal Resolution	Color : 600TV lines	Color : 600TV lines	Color : 600TV lines	Color : 600TV lines	Color : 600TV lines	Color : 650TV lines
Day & Night	Yes (Electrical)	Yes (Electrical)	Yes (Electrical)	Yes (Electrical)	Yes (ICR)	Yes
Motion Detection	Yes	Yes	N/A	N/A	Yes	N/A
Digital Image Stabilization	Yes	Yes	N/A	N/A	Yes	N/A
Coax Control	Pelco-C	Pelco-C	Pelco-C	Pelco-C	Pelco-C	N/A
IR Range	N/A	N/A	N/A	N/A	20m (66ft)	20m (66ft)
Installation Type	Surface	Surface	Surface	Surface	Surface	Surface
Operating Temperature	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)
Power	12V DC	12V DC	Dual (24V AC & 12V DC), 12V DC	Dual (24V AC & 12V DC), 12V DC	12V DC	12V DC

Analogue Camera Selection

	IR Dome			Vandal-Resistant		
	SCD-2042R/2022R	SCD-2020R	SCD-1020R	SCV-3083	SCV-3082	SCV-3080
						
Imaging Device	1/3" Super HAD CCD II	1/3" Super HAD CCD II	1/4" CMOS	1/3" Super HAD CCD II (Double scan)	1/3" Super HAD CCD II (Double scan)	1/3" Super HAD CCD (Double scan)
Min. Illumination (50 IRE)	Color : 0.15Lux B/W : 0Lux (IR LED on)	Color : 0.15Lux B/W : 0Lux (IR LED on)	0Lux (IR LED on)	Color : 0.1Lux B/W : 0.01Lux	Color : 0.1Lux B/W : 0.01Lux	Color : 0.3Lux B/W : 0.01Lux
Lens (Mount)	8mm / 3.8mm fixed	3.6mm fixed	3.6mm fixed	2.8x motorized varifocal (3 ~ 8.5mm)	3.9x varifocal (2.8 ~ 11mm)	3.9x varifocal (2.8 ~ 11mm)
Horizontal Resolution	Color : 700TV lines	Color : 600TV lines	Color : 520TV lines	Color : 700TV lines	Color : 650TV lines	Color : 600TV lines
Day & Night	Yes (ICR)	Yes (ICR)	Yes (Electrical)	Yes (ICR)	Yes (ICR)	Yes (ICR)
Wide Dynamic Range	N/A	N/A	N/A	Yes	Yes	Yes
Alarm I/O	N/A	N/A	N/A	0 / 1	0 / 1	0 / 1
Motion Detection	Yes	Yes	N/A	Yes	Yes	Yes
Intelligent Video Analytics	N/A	N/A	N/A	Fixed / Moved, Area, Fence, Detection, Counting	Fixed / Moved, Fence, Tracking, Counting	Fixed / Moved, Area, Fence, Tracking, Counting
Digital Image Stabilization	Yes	Yes	N/A	Yes	Yes	Yes
Coax Control	Pelco-C	Pelco-C	N/A	Pelco-C	Pelco-C	Pelco-C
IR Range	7m (23ft)	7m (23ft)	10m (33ft)	N/A	N/A	N/A
Installation Type	Surface	Surface	Surface	Surface	Surface	Surface, Flush
Environmental Protection	N/A	N/A	N/A	IP66	IP66, IK10	IP66, IK10
Operating Temperature	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	0°C ~ +55°C (+32°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-50°C ~ +55°C (-58°F ~ +131°F)
Power	12V DC	12V DC	12V DC	Dual (24V AC & 12V DC)	Dual (24V AC & 12V DC)	Dual (24V AC & 12V DC) Built-in fan & heater (24V AC)

	Vandal-Resistant	IR Vandal-Resistant			PTZ Dome
	SCV-2080	SCV-2082R	SCV-2081R	SCV-2080R	SCP-3430H
					
Imaging Device	1/3" Super HAD CCD II	1/3" Super HAD CCD II	1/3" Super HAD CCD II	1/3" Super HAD CCD II	1/4" Ex-view HAD CCD (Double scan)
Min. Illumination (50 IRE)	Color : 0.15Lux B/W : 0.001Lux	Color : 0.15Lux B/W : 0Lux (IR LED on)	Color : 0.15Lux B/W : 0Lux (IR LED on)	Color : 0.15Lux B/W : 0Lux (IR LED on)	Color : 0.7Lux B/W : 0.07Lux
Lens (Mount)	3.6x varifocal (2.8 ~ 10mm)	3.6x varifocal (2.8 ~ 10mm)	3.6x varifocal (2.8 ~ 10mm)	3.6x varifocal (2.8 ~ 10mm)	43x (3.2 ~ 138.5mm)
Horizontal Resolution	Color : 600TV lines	Color : 700TV lines	Color : 600TV lines	Color : 600TV lines	Color : 600TV lines
Day & Night	Yes (ICR)	Yes (ICR)	Yes (ICR)	Yes (ICR)	Yes (ICR)
Wide Dynamic Range	N/A	N/A	N/A	N/A	Yes
Alarm I/O	N/A	N/A	N/A	N/A	8 / 3
Motion Detection	Yes	Yes	Yes	Yes	Yes
Intelligent Video Analytics	N/A	N/A	N/A	N/A	Fixed / Moved
Digital Image Stabilization	Yes	Yes	Yes	Yes	Yes
Coax Control	Pelco-C	Pelco-C	Pelco-C	Pelco-C	CCVC
RS-485 Control	N/A	N/A	N/A	Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon	Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon, AD, GE
IR Range	N/A	20m (66ft)	20m (66ft)	30m (98ft)	N/A
Installation Type	Surface, Flush	Surface, Flush	Surface, Flush	Surface, Flush	N/A
Environmental Protection	IP66, IK10	IP66, IK10	IP66, IK10	IP66, IK10	IP66, IK10
Operating Temperature	-50°C ~ +55°C (-58°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-50°C ~ +55°C (-58°F ~ +131°F)
Power	Dual (24V AC & 12V DC) Built-in fan & heater (24V AC)	Dual (24V AC & 12V DC)	Dual (24V AC & 12V DC)	Dual (24V AC & 12V DC)	24V AC

	PTZ Dome				
	SCP-3371	SCP-3370TH	SCP-2373H/2373	SCP-2371H/2371	SCP-2370TH
					
Imaging Device	1/4" Ex-view HAD CCD (Double scan)	1/4" Ex-view HAD CCD (Double scan)	1/4" Sony 960H Ex-view HAD CCD II	1/4" Super HAD CCD II	1/4" Super HAD CCD II
Min. Illumination (50 IRE)	Color : 0.7Lux, B/W : 0.07Lux	Color : 0.7Lux, B/W : 0.07Lux	Color : 0.2Lux, B/W : 0.01Lux	Color : 0.2Lux, B/W : 0.02Lux	Color : 0.2Lux, B/W : 0.02Lux
Lens (Mount)	37x (3.5 ~ 129.5mm)	37x (3.5 ~ 129.5mm)	37x (3.5 ~ 129.5mm)	37x (3.5 ~ 129.5mm)	37x (3.5 ~ 129.5mm)
Horizontal Resolution	Color : 600TV lines	Color : 600TV lines	Color : 680TV lines	Color : 600TV lines	Color : 600TV lines
Day & Night	Yes (ICR)	Yes (ICR)	Yes (ICR)	Yes (ICR)	Yes (ICR)
Wide Dynamic Range	Yes	Yes	N/A	N/A	N/A
Alarm I/O	8 / 3	8 / 3	8 / 3	8 / 3	8 / 3
Motion Detection	Yes	Yes	Yes	Yes	Yes
Intelligent Video Analytics	Detection, Tracking, Fixed / Moved	Tracking, Fixed / Moved	N/A	N/A	Tracking
Digital Image Stabilization	Yes	Yes	Yes	Yes	Yes
Coax Control	Pelco-C	Pelco-C	Pelco-C	Pelco-C	Pelco-C
RS-485 Control	Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon, AD, GE	Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon, AD, GE	Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon, AD, GE	Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon, AD, GE	Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon, AD, GE
Environmental Protection	IP66 (SCP-3371H)	IP66, IK10	IP66 (SCP-2373H)	IP66 (SCP-2371H)	IP66, IK10
Operating Temperature	-10°C ~ +55°C (+14°F ~ +131°F)	-50°C ~ +55°C (-58°F ~ +131°F)	-50°C ~ +55°C (-58°F ~ +131°F) : SCP-2373H -10°C ~ +55°C (+14°F ~ +131°F) : SCP-2373	-50°C ~ +55°C (-58°F ~ +131°F) : SCP-2371H -10°C ~ +55°C (+14°F ~ +131°F) : SCP-2371	-50°C ~ +55°C (-58°F ~ +131°F)
Power	24V AC	24V AC	24V AC	24V AC	24V AC

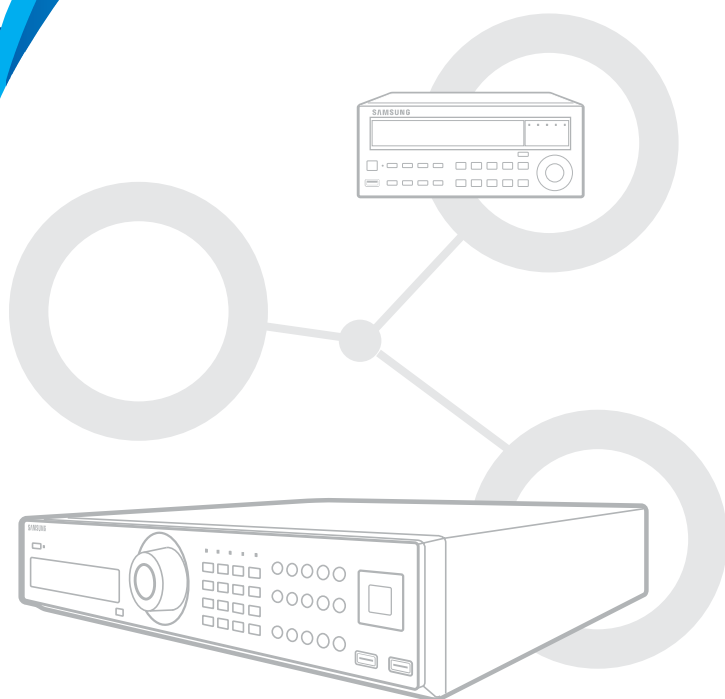
Analogue Camera Selection

	PTZ Dome				
	SCP-2273H/2273	SCP-2271H/2271	SCP-2250H	SCP-3120/3120VH	SCP-2120
					
Imaging Device	1/4" Sony 960H Ex-view HAD CCD II	1/4" Super HAD CCD II	1/4" Super HAD CCD II	1/4" Ex-view HAD CCD (Double scan)	1/4" Super HAD CCD II
Min. Illumination (50 IRE)	Color : 0.2Lux, B/W : 0.01Lux	Color : 0.2Lux, B/W : 0.02Lux	Color : 0.2Lux, B/W : 0.02Lux	Color : 0.7Lux, B/W : 0.07Lux	Color : 0.2Lux, B/W : 0.004Lux
Lens (Mount)	27x (3.5 ~ 94.5mm)	27x (3.5 ~ 94.5mm)	25x (3.66 ~ 91.36mm)	12x (3.6 ~ 44.3mm)	12x (3.9 ~ 46mm)
Horizontal Resolution	Color : 680TV lines	Color : 600TV lines	Color : 600TV lines	Color : 600TV lines	Color : 600TV lines
Day & Night	Yes (ICR)	Yes (ICR)	Yes (ICR)	Yes (ICR)	Yes (ICR)
Wide Dynamic Range	N/A	N/A	N/A	Yes	N/A
Alarm I/O	8 / 3	8 / 3	8 / 3	2 / 2	2 / 2
Motion Detection	Yes	Yes	Yes	Yes	Yes
Intelligent Video Analytics	N/A	N/A	Fixed / Moved	Fixed / Moved	N/A
Digital Image Stabilization	Yes	Yes	Yes	Yes	Yes
Coax Control	Pelco-C	Pelco-C	CCVC	CCVC	Pelco-C
RS-485 Control	Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon, AD, GE	Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon, AD, GE	Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon, AD, GE	Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon, AD, GE	Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon, AD, GE
Environmental Protection	IP66 (SCP-2273H)	IP66 (SCP-2271H)	IP66, IK10 (SCP-2250H)	IP66, IK10 (SCP-3120VH)	N/A
Operating Temperature	-50°C ~ +55°C (-58°F ~ +131°F) -10°C ~ +55°C (+14°F ~ +131°F) : SCP-2273	-50°C ~ +55°C (-58°F ~ +131°F) : SCP-2271H -10°C ~ +55°C (+14°F ~ +131°F) : SCP-2271	-50°C ~ +55°C (-58°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F) : SCP-3120 -50°C ~ +55°C (-58°F ~ +131°F) : SCP-3120VH	-10°C ~ +55°C (+14°F ~ +131°F)
Power	24V AC	24V AC	24V AC	24V AC	24V AC

	IR PTZ Dome	Positioning	HD-SDI			
	SCP-2370RH	SCU-2370	SCB-6001	SCO-6081R	SCD-6081R	SCV-6081R
						
Imaging Device	1/4" Super HAD CCD II	1/4" Super HAD CCD II	1/3" Progressive scan CMOS	1/3" Progressive scan CMOS	1/3" Progressive scan CMOS	1/3" Progressive scan CMOS
Min. Illumination (50 IRE)	Color : 0.2Lux, B/W : 0Lux (IR LED on)	Color : 0.2Lux, B/W : 0.02Lux	Color : 1Lux, B/W : 0.1Lux	Color : 1Lux, B/W : 0Lux (IR LED on)	Color : 1Lux, B/W : 0Lux (IR LED on)	Color : 1Lux, B/W : 0Lux (IR LED on)
Lens (Mount)	37x (3.5 ~ 129.5mm)	37x (3.5 ~ 129.5mm)	Optional (C / CS)	2.8x motorized varifocal (3 ~ 8.5mm)	2.8x motorized varifocal (3 ~ 8.5mm)	2.8x motorized varifocal (3 ~ 8.5mm)
Horizontal Resolution	Color : 600TV lines	Color : 600TV lines	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
Day & Night	Yes (ICR)	Yes (ICR)	Yes (ICR)	Yes (ICR)	Yes (ICR)	Yes (ICR)
Wide Dynamic Range	N/A	N/A	Yes	Yes	Yes	Yes
Alarm I/O	8 / 3	3 / 2	1 / 1	1 / 1	1 / 1	1 / 1
Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes
Intelligent Video Analytics	N/A	N/A	Tampering, Virtual line, Enter / Exit, Appear / Disappear	Tampering, Virtual line, Enter / Exit, Appear / Disappear	Tampering, Virtual line, Enter / Exit, Appear / Disappear	Tampering, Virtual line, Enter / Exit, Appear / Disappear
Digital Image Stabilization	Yes	Yes	Yes	Yes	Yes	Yes
Coax Control	Pelco-C	Pelco-C	N/A	N/A	N/A	N/A
RS-485 Control	Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon, AD, GE	Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon, AD, GE	Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon, AD, GE	Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon, AD, GE	Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon, AD, GE	Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon, AD, GE
IR Range	100m (328ft)	N/A	N/A	30m (98ft)	15m (49ft)	15m (49ft)
Environmental Protection	IP66, IK10	IP66	N/A	IP66	N/A	IP66
Operating Temperature	-50°C ~ +55°C (-58°F ~ +131°F)	-50°C ~ +55°C (-58°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)
Power	24V AC	24V AC	Dual (24V AC & 12V DC)	Dual (24V AC & 12V DC)	Dual (24V AC & 12V DC)	Dual (24V AC & 12V DC)

	UTP				Thermal	
	SUB-2000	SUD-3080	SUD-2081	SUD-2080	SCB-9080	SCB-9060
						
Imaging Device	1/3" Super HAD CCD II	1/3" Sony Super HAD CCD (Double scan)	1/3" Super HAD CCD II	1/3" Super HAD CCD II	320(H) x 240(H) uncooled VOX microbolometer	320(H) x 240(H) uncooled VOX microbolometer
Min. Illumination (50 IRE)	Color : 0.05Lux	Color : 0.3Lux, B/W : 0.01Lux	Color : 0.15Lux, B/W : 0.001Lux	Color : 0.15Lux, B/W : 0.001Lux	0Lux	0Lux
Lens (Mount)	Optional (C / CS)	3.9x varifocal (2.8 ~ 11mm)	3.6x varifocal (2.8 ~ 10mm)	3.6x varifocal (2.8 ~ 10mm)	50mm fixed	14mm fixed
Horizontal Resolution	Color : 600TV lines	Color : 600TV lines	Color : 600TV lines	Color : 600TV lines	320 x 240	320 x 240
Day & Night	Yes (Electrical)	Yes (ICR)	Yes (ICR)	Yes (ICR)	N/A	N/A
Wide Dynamic Range	N/A	Yes	N/A	N/A	N/A	N/A
Alarm I/O	N/A	0 / 1	N/A	N/A	0 / 1	0 / 1
Motion Detection	Yes	Yes	Yes	Yes	N/A	N/A
Intelligent Video Analytics	N/A	Fixed / Moved, Area, Fence, Tracking, Counting	N/A	N/A	N/A	N/A
Digital Image Stabilization	Yes	Yes	Yes	Yes	N/A	N/A
Coax Control	Pelco-C	Pelco-C	Pelco-C	Pelco-C	Pelco-C	Pelco-C
RS-485 Control	Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon	Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon	Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon	Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon	Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon, AD, GE	Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon, AD, GE
Installation Type	N/A	Surface, Flush	Surface, Flush	Surface, Flush	N/A	N/A
Environmental Protection	N/A	N/A	N/A	N/A	N/A	N/A
Operating Temperature	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-30°C ~ +55°C (-22°F ~ +131°F)	-30°C ~ +55°C (-22°F ~ +131°F)
Power	Dual (24V AC & 12V DC), 28V AC	Dual (24V AC & 12V DC), 28V AC	Dual (24V AC & 12V DC), 28V AC	Dual (24V AC & 12V DC), 28V AC	24V AC	24V AC

SAMSUNG TOTAL SECURITY SOLUTIONS



DVR

DVR Features

High Quality Image

Full HD Real-time Recording & Play back

The SRD series features exceptional live and playback image quality. Selected models such as SRD-1673D and SRD-873D are capable of recording up to real-time 960H/D1 images while the other units are providing up to real-time 4CIF/CIF images across selected channels, if not all channels.



960H / CIF / 4CIF Real-time Recording

The SRD-1673D and SRD-873D support real-time, 30/25 frames per second recording and playback at 960 x 480 resolution over all channels. Samsung standard DVRs such as SRD-1670D(C)/1653D/870D(C)/470D series can provide 4CIF image quality and SRD-1650D(C)/1652D/1640/850D(C)/852D/840/442/440 series provide CIF quality of real time recording.



High Definition Up-scaling (1080p)

H.264 real-time DVR series is equipped with various video outputs BNC/VGA/HDMI. HDMI enables the user to experience high definition 1920x1080p resolution image.



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

A one hour motion search window can be easily set up using the GUI. Finding out what happened in an area of interest is much more convenient with the 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.



Searching Preview

Displaying single still image before playback (all search mode support). In all search modes, the SRD series displays a single still image before playback to help identify the correct "Event to replay. User can easily recognize which channel to play.

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



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 in the range feature VPS, this eliminates the problem of blurred edges on moving objects to provide picture-perfect still frame images.

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.

DVR Selection

		16CH			
		SRD-1680D	SRD-1673D	SRD-1670D/1670DC	SRD-1654D
					
OS	Embedded	Linux	Linux	Linux	Linux
Live	Frame Rate (NTSC / PAL)	480fps / 400fps	480fps / 400fps	480fps / 400fps	480fps / 400fps
Recording	Max. Record Rate / NTSC	480fps@960H / 240fps@1080p	480fps@4CIF/960H	480fps@4CIF	120fps@4CIF/960H
	Max. Record Rate / PAL	400fps@960H / 200fps@1080p	400fps@4CIF/960H	400fps@4CIF	100fps@4CIF/960H
	Compression	H.264	H.264	H.264	H.264
Video	Inputs	16CH	16CH	16CH	16CH
	Loop Outputs	N/A	N/A	16	N/A
Audio	Inputs	16CH (Built-in 4CH)	16CH (Built-in 4CH)	16CH (Built-in 4CH)	4CH (Built-in 4CH)
Storage	Internal HDD	Up to 4 SATA HDDs	Up to 4 SATA HDDs	Up to 5 SATA HDDs	Up to 4 SATA HDDs
	External HDD	Up to 2 expansion bay	Up to 2 expansion bay	Up to 2 expansion bay	N/A
Monitors	VGA	Yes	Yes	Yes	Yes
	HDMI	Yes	Yes	Yes	Yes
	Main Composite	N/A	N/A	1CH (BNC)	N/A
	Spot Composite	2CH (Digital)	2CH (Digital)	4CH (Digital)	2CH (Digital)
Connections	USB	2 ports	2 ports	2 ports	2 ports
	e-SATA	2 External SATA ports	2 External SATA ports	2 External SATA ports	N/A
	DVD Writer (Back up)	Yes	Yes	Yes	Yes
	Mouse	Yes	Yes	Yes	Yes
Network	Remote Users	Search 3 / Live unicast 10 / Live multicast 20	Search 3 / Live unicast 10 / Live multicast 20	Search 1 / Live unicast 10 / Live multicast 20	Search 3 / Live unicast 10 / Live multicast 20
	Transmission	4CIF, 2CIF, CIF	4CIF, 2CIF, CIF	4CIF, 2CIF, CIF	4CIF, 2CIF, CIF
	Monitoring	SSM, SmartViewer, Webviewer	SSM, SmartViewer, Webviewer	NET-i viewer, SmartViewer, Webviewer	SSM, SmartViewer, Webviewer
Removable BNC Panel		Yes	Yes	Yes	Yes
PTZ Control	Coax Protocol	Pelco-C, Samsung CCVC	Pelco-C, Samsung CCVC	Pelco-C, Samsung CCVC (SRD-1670DC)	N/A *
	RS-485 Protocol	Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, VICON, ELMO, GE	Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, VICON, ELMO, GE	Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, VICON, ELMO	Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, VICON, ELMO, GE

• Option : Audio extension cable * Coaxial communication not supported

		16CH			
		SRD-1653D	SRD-1650D/1650DC	SRD-1652D	SRD-1640
					
OS	Embedded	Linux	Linux	Linux	Linux
Live	Frame Rate (NTSC / PAL)	480fps / 400fps	480fps / 400fps	480fps / 400fps	480fps / 400fps
Recording	Max. Record Rate / NTSC	120fps@4CIF/960H	120fps@4CIF	120fps@4CIF	120fps@4CIF
	Max. Record Rate / PAL	100fps@4CIF/960H	100fps@4CIF	100fps@4CIF	100fps@4CIF
	Compression	H.264	H.264	H.264	H.264
Video	Inputs	16CH	16CH	16CH	16CH
	Loop Outputs	N/A	16	N/A	N/A
Audio	Inputs	16CH (Built-in 4CH)	16CH (Built-in 4CH)	4CH (Built-in 4CH)	4CH
Storage	Internal HDD	Up to 4 SATA HDDs	Up to 5 SATA HDDs	Up to 4 SATA HDDs	Up to 1 SATA HDD
	External HDD	Up to 2 expansion bay	Up to 2 expansion bay	N/A	N/A
Monitors	VGA	Yes	Yes	Yes	Yes
	HDMI	Yes	Yes	N/A	N/A
	Main Composite	N/A	1CH (BNC)	1CH (BNC)	1CH (BNC)
	Spot Composite	2CH (Digital)	1CH (BNC)	1CH (BNC)	1CH (BNC)
Connections	USB	2 ports	3 ports	2 ports	2 ports
	e-SATA	2 External SATA ports	2 External SATA ports	N/A	N/A
	DVD Writer (Back up)	Yes	Yes	Yes	N/A
	Mouse	Yes	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	Search 2 / Live unicast 4 / Live multicast 4
	Transmission	4CIF, 2CIF, CIF	4CIF, CIF	4CIF, CIF	4CIF, 2CIF, CIF
	Monitoring	SSM, SmartViewer, Webviewer	NET-i viewer, SmartViewer, Webviewer	NET-i viewer, SmartViewer, Webviewer	NET-i viewer, SmartViewer, Webviewer
Removable BNC Panel		Yes	Yes	Yes	N/A
PTZ Control	Coax Protocol	Pelco-C, Samsung CCVC	Pelco-C, Samsung CCVC (SRD-1650DC)	N/A *	N/A
	RS-485 Protocol	Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, VICON, ELMO, GE	Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, VICON, ELMO	Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, VICON, ELMO	Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, VICON, ELMO

• Option : Audio extension cable * Coaxial communication not supported

DVR Selection

		8CH			
		SRD-880D	SRD-873D	SRD-870DC	SRD-854D
					
		New			New
OS	Embedded	Linux	Linux	Linux	Linux
Live	Frame Rate (NTSC / PAL)	240fps / 200fps	240fps / 200fps	240fps / 200fps	240fps / 200fps
Recording	Max. Record Rate / NTSC	240fps@1080p	240fps@4CIF/960H	240fps@4CIF	60fps@4CIF/960H
	Max. Record Rate / PAL	200fps@1080p	200fps@4CIF/960H	200fps@4CIF	50fps@4CIF/960H
	Compression	H.264	H.264	H.264	H.264
Video	Inputs	8CH	8CH	8CH	8CH
	Loop Outputs	N/A	N/A	8	N/A
Audio	Inputs	8CH (Built-in 4CH)	8CH (Built-in 4CH)	8CH (Built-in 4CH)	4CH (Built-in 4CH)
Storage	Internal HDD	Up to 4 SATA HDDs	Up to 4 SATA HDDs	Up to 5 SATA HDDs	Up to 4 SATA HDDs
	External HDD	Up to 2 expansion bay	Up to 2 expansion bay	Up to 2 expansion bay	N/A
Monitors	VGA	Yes	Yes	Yes	Yes
	HDMI	Yes	Yes	Yes	Yes
	Main Composite	N/A	N/A	1CH (BNC)	N/A
	Spot Composite	2CH (Digital)	2CH (Digital)	2CH (Digital)	2CH (Digital)
Connections	USB	2 ports	2 ports	3 ports	2 ports
	e-SATA	2 External SATA ports	2 External SATA ports	2 External SATA ports	N/A
	DVD Writer (Back up)	Yes	Yes	Yes	Yes
	Mouse	Yes	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	Search 3 / Live unicast 10 / Live multicast 20
	Transmission	4CIF, 2CIF, CIF	4CIF, 2CIF, CIF	4CIF, 2CIF, CIF	4CIF, 2CIF, CIF
	Monitoring	SSM, SmartViewer, Webviewer	SSM, SmartViewer, Webviewer	NET-i viewer, SmartViewer, Webviewer	SSM, SmartViewer, Webviewer
Removable BNC Panel		Yes	Yes	Yes	Yes
PTZ Control	Coax Protocol	N/A *	Pelco-C, Samsung CCVC	Pelco-C, Samsung CCVC	N/A *
	RS-485 Protocol	N/A	Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, VICON, ELMO, GE	Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, VICON, ELMO	Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, VICON, ELMO, GE

* Option : Audio extension cable * Coaxial communication not supported

		8CH		
		SRD-850D/850DC	SRD-852D	SRD-840
				
OS	Embedded	Linux	Linux	Linux
Live	Frame Rate (NTSC / PAL)	240fps / 200fps	240fps / 200fps	240fps / 200fps
Recording	Max. Record Rate / NTSC	60fps@4CIF	60fps@4CIF	60fps@4CIF
	Max. Record Rate / PAL	50fps@4CIF	50fps@4CIF	50fps@4CIF
	Compression	H.264	H.264	H.264
Video	Inputs	8CH	8CH	8CH
	Loop Outputs	8	N/A	N/A
Audio	Inputs	8CH (Built-in 4CH)	4CH (Built-in 4CH)	4CH
Storage	Internal HDD	Up to 5 SATA HDDs	Up to 4 SATA HDDs	Up to 1 SATA HDD
	External HDD	Up to 2 expansion bay	N/A	N/A
Monitors	VGA	Yes	Yes	Yes
	HDMI	Yes	Yes	N/A
	Main Composite	1CH (BNC)	1CH (BNC)	1CH (BNC)
	Spot Composite	1CH	1CH	1CH (BNC)
Connections	USB	3 ports	2 ports	2 ports
	e-SATA	2 External SATA ports	N/A	N/A
	DVD Writer (Back up)	Yes	Yes	N/A
	Mouse	Yes	Yes	Yes
Network	Remote Users	Search 3 / Live unicast 10 / Live multicast 20	Search 3 / Live unicast 10 / Live multicast 20	Search 2 / Live unicast 4 / Live multicast 4
	Transmission	4CIF, CIF	4CIF, 2CIF, CIF	4CIF, 2CIF, CIF
	Monitoring	NET-i viewer, SmartViewer, Webviewer	NET-i viewer, SmartViewer, Webviewer	NET-i viewer, SmartViewer, Webviewer
Removable BNC Panel		Yes	Yes	N/A
PTZ Control	Coax Protocol	Pelco-C, Samsung CCVC (SRD-850DC)	N/A *	N/A *
	RS-485 Protocol	Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, VICON, ELMO	Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, VICON, ELMO	Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, VICON, ELMO

* Option : Audio extension cable * Coaxial communication not supported

DVR Selection

		4CH			
		SRD-473D	SRD-470D	SRD-443	SRD-442
					
		New		New	
OS	Embedded	Linux	Linux	Linux	Linux
Live	Frame Rate (NTSC / PAL)	120fps / 100fps	120fps / 100fps	120fps / 100fps	120fps / 100fps
Recording	Max. Record Rate / NTSC	120fps@4CIF/960H	120fps@4CIF	30fps@4CIF	30fps@4CIF
	Max. Record Rate / PAL	100fps@4CIF/960H	100fps@4CIF	25fps@4CIF	25fps@4CIF
	Compression	H.264	H.264	H.264	H.264
Video	Inputs	4CH	4CH	4CH	4CH
	Loop Outputs	N/A	4CH	N/A	N/A
Audio	Inputs	4CH	4CH	4CH	1CH
Storage	Internal HDD	Up to 1 SATA HDD	Up to 1 SATA HDD	Up to 1 SATA HDD	Up to 2 SATA HDDs
	External HDD	N/A	N/A	N/A	N/A
Monitors	VGA	Yes	Yes	Yes	Yes
	HDMI	Yes	N/A	N/A	N/A
	Main Composite	N/A	1CH (BNC)	1CH (BNC)	1CH (BNC)
	Spot Composite	2CH (Digital)	1CH (Analog)	1CH (Analog)	1CH (Analog)
Connections	USB	2 ports	2 ports	2 ports	2 ports
	e-SATA	N/A	N/A	N/A	N/A
	DVD Writer (Back up)	Yes	Yes	N/A	N/A
	Mouse	Yes	Yes	Yes	Yes
Network	Remote Users	Search 3 / Live unicast 10 / Live multicast 20	Search 3 / Live unicast 10 / Live multicast 20	Search 2 / Live unicast 4 / Live multicast 20	Search 2 / Live unicast 4 / Live multicast 20
	Transmission	4CIF, 2CIF, CIF	4CIF, 2CIF, CIF	4CIF, 2CIF, CIF	4CIF, 2CIF, CIF
	Monitoring	SSM, SmartViewer, Webviewer	NET-i viewer, SmartViewer, Webviewer	NET-i viewer, SmartViewer, Webviewer	NET-i viewer, SmartViewer, Webviewer
Removable BNC Panel		Yes	Yes	N/A	N/A
PTZ Control	Coax Protocol	Yes	N/A *	N/A *	N/A *
	RS-485 Protocol	Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, VICON, ELMO	Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, VICON, ELMO	Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, VICON, ELMO	Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, VICON, ELMO

• Option : Audio extension cable * Coaxial communication not supported

		4CH	
		SRD-440	SRD-480D
			
OS	Embedded	Linux	Linux
Live	Frame Rate (NTSC / PAL)	120fps / 100fps	120fps
Recording	Max. Record Rate / NTSC	30fps@4CIF	120fps@720p
	Max. Record Rate / PAL	25fps@4CIF	
	Compression	H.264	
Video	Inputs	4CH	4CH
	Loop Outputs	N/A	N/A
Audio	Inputs	1CH	4CH
Storage	Internal HDD	Up to 1 SATA HDD	Up to 4 SATA HDDs
	External HDD	N/A	Up to 1 expansion bay
Monitors	VGA	Yes	Yes
	HDMI	N/A	Yes
	Main Composite	1CH (BNC)	N/A
	Spot Composite	1CH (Analog)	N/A
Connections	USB	2 ports	2 ports
	e-SATA	N/A	1 External SATA port
	DVD Writer (Back up)	N/A	Yes
	Mouse	Yes	Yes
Network	Remote Users	Search 2 / Live unicast 4 / Live multicast 20	Search 2 / Live unicast 10 / Live multicast 20
	Transmission	4CIF, CIF	4CIF, CIF
	Monitoring	NET-i viewer, SmartViewer, Webviewer	NET-i viewer, SmartViewer, Webviewer
Removable BNC Panel		N/A	N/A
PTZ Control	Coax Protocol	N/A *	N/A *
	RS-485 Protocol	Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, VICON, ELMO	N/A

• Option : Audio extension cable * Coaxial communication not supported

		RAID 5 Unit
		SVS-5R
		
Features		• 1U 19-inch rack case • Data transmission speed : up to 3.0Gbps (SATA II) • Available SATA HDD : up to 4 (4TB)

		HDD Extension Unit
		SVS-5E
		
Features		• 1U 19-inch rack case • Data transmission speed : up to 3.0Gbps (SATA II) • Available SATA HDD : up to 4 (4TB)