



Samsung Network System Catalog



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Samsung Network System Catalog

Guide for Network System Configuration and Samsung Network Products





High Quality Network Security Solution

iPOLiS is the collective name for Samsung Techwin's range of innovative IP based video security products. Offering solutions for a wide range of network based surveillance applications, the iPOLiS range consists of everything from megapixel and HD network cameras to network video recorders and intuitive Centralized Management Software (CMS) to make it easy to build a fully integrated security system.

Why IP?

Remote Accessibility

Network based IP surveillance systems are extremely easy to view, control and administer from anywhere in the world. What is more, multiple video streams are transmitted at various network bandwidths to enable effective viewing over a range of equipment from PCs to SmartPhones.

Easy Integration

iPOLiS network based IP solutions contain dual outputs (BNC and Ethernet) to make the step up from analogue to IP cost effective and simple. Users are able to run IP equipment on an analogue network until the cabling is upgraded to CAT5, or use video encoders to transmit full IP data down the existing coaxial cable.

Easy Expansion

Upgrading an analogue system can be extremely costly and time consuming because all cables need to be run from the camera equipment directly back into the control room. A network based IP solution does not have such issues and it is extremely easy to add additional cameras or recording/storage devices to the network.

Intelligent Monitoring

Network video surveillance products have built in intelligent video analytic functions including Motion Detection, and Object Tracking. These functions help users to manage the videos in more convenient and effective ways. Users can quickly search recorded footage by specific events, such as optical trip-wire activation, without having to review hours of video.



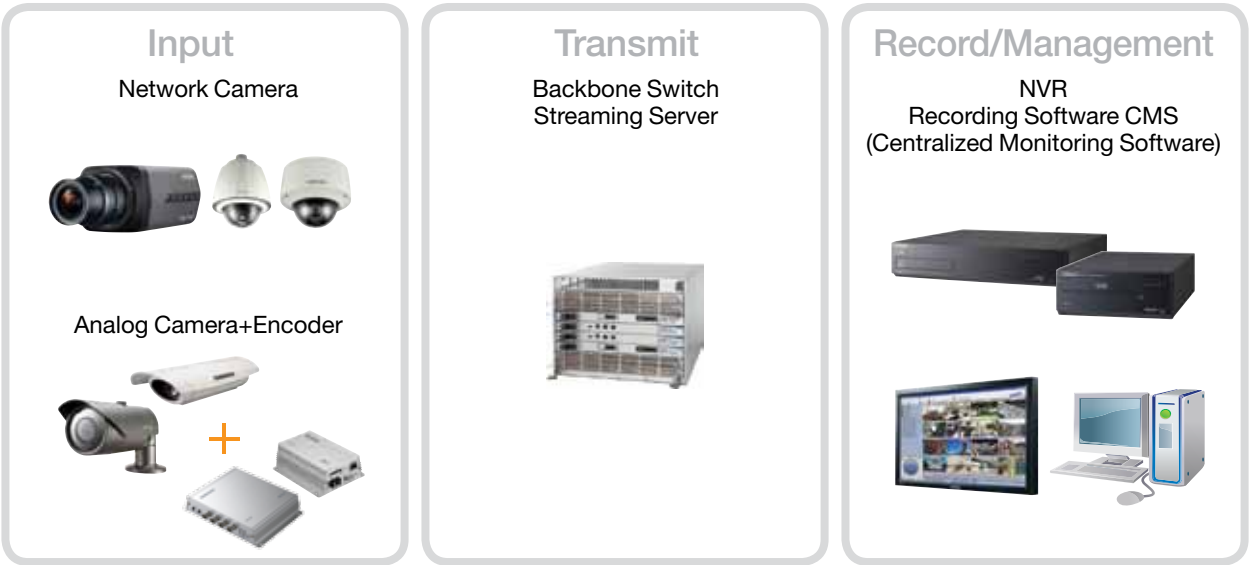
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Samsung Network System / Technology

Network System Configuration

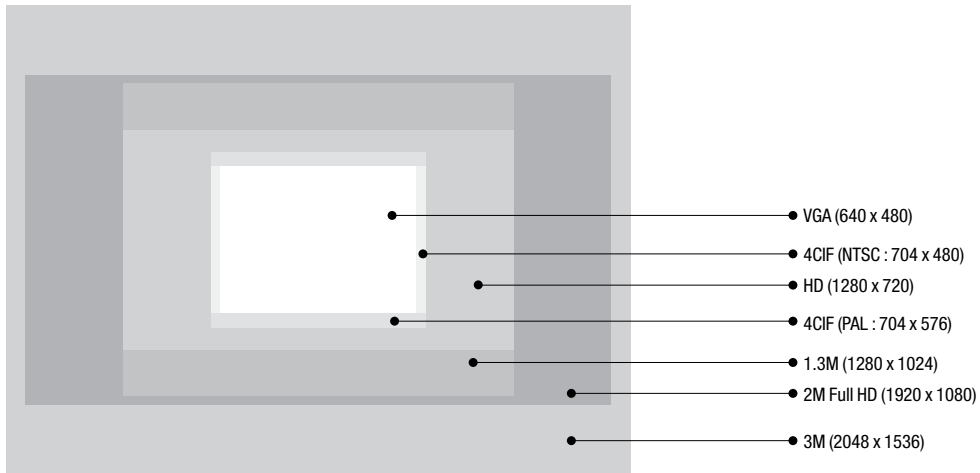
An IP based security system brings additional benefits to the user than that of a traditional analogue system, in terms of low cost, convenient installation, and easy expansion/integration. Samsung provides one-stop IP video surveillance solution; Network Camera, Encoder, Monitoring Software, Hardware NVR, and Software NVR (Recording Software).



Various Image Resolutions

iPOLiS network camera supports various resolutions, from 4CIF to VGA, Megapixel, and HD.

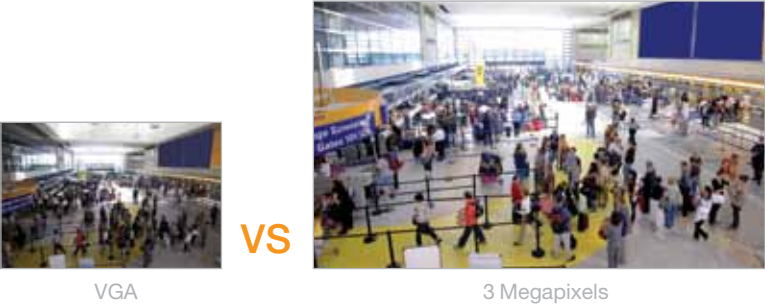
	VGA	4CIF	HD	1.3Megapixel	2Megapixel (Full HD)	3Megapixel
NTSC	640 x 480	704 x 480	1280 x 720	1280 x 1024	1920 x 1080	2048 x 1536
PAL		704 x 576				



Higher resolution images of megapixel network cameras allow for the capture of exceptionally clear details in application such as banks. However, transmitting megapixel images require considerable network bandwidth. With iPOLiS, users have a range of network cameras from which to select to suite the users' needs and network environment.

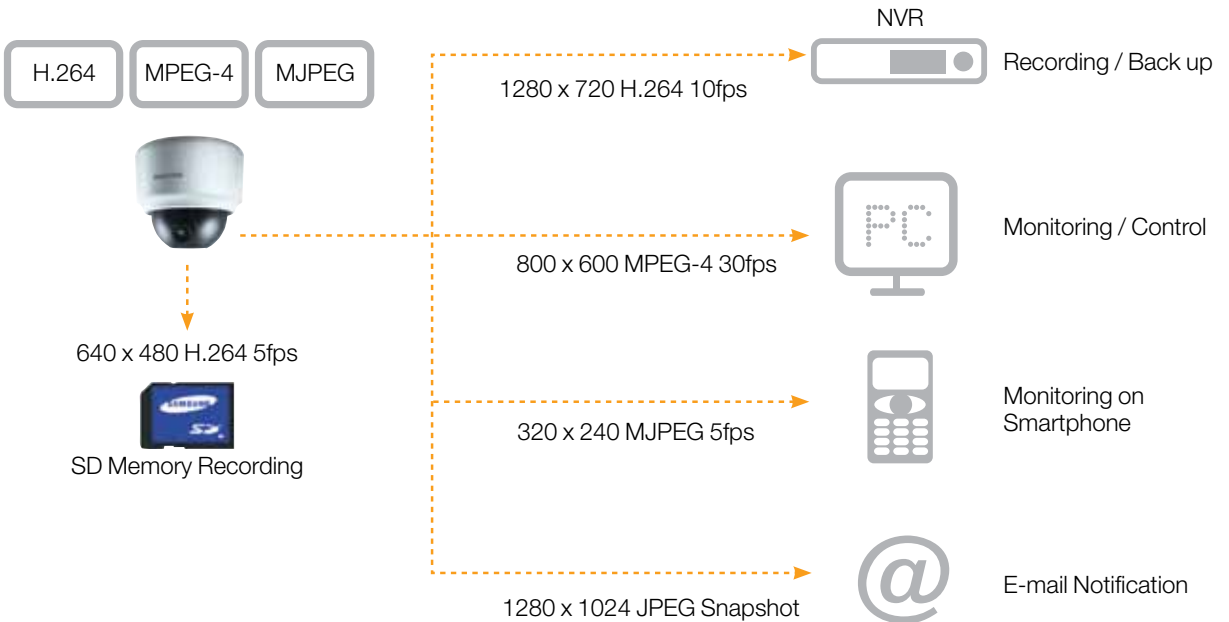
Full HD (High Definition) Resolution

Full HD / Megapixel cameras deliver a much higher resolution than can be achieved on a standard definition camera. A Full HD (2.1 Megapixel) resolution image has 5 times the resolution of a standard definition image allowing the operator to see much more detail over a wider area. The 7000 series of Samsung network cameras provides Full HD 3 Megapixel resolution, making it useful for the applications where capturing this level of detail is vital such as ATM machines, banks, casinos and transport hubs where the key objective of video surveillance is to be able to identify people or objects.



Multiple Codec & Streaming

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



Samsung Network System / Technology

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



Region of interest

Normal Compressed Image
(Higher Data Size)

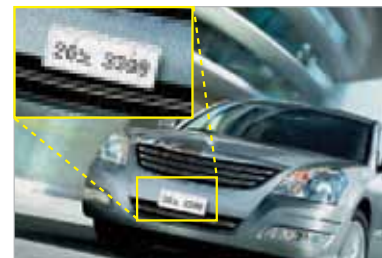
Lower Quality

Higher Quality

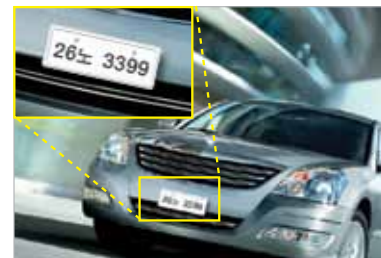
Smart Compressed Image
(Effectively Saved Data Size)

Progressive Scan

Samsung HD network cameras utilize progressive scanning method and make the edges of moving objects can be clearly defined.



Conventional Interlaced Scan



Progressive Scan

Intelligent Video Analytics

Intelligent video analytics can be used for efficient monitoring.

1) Disappearing

It activates an alarm immediately when an object disappears from a defined monitoring area.



Motion Detection

Virtual Line
DetectionEnter / Exit
Detection

2) Appearing

It activates an alarm immediately when an object appears from a defined monitoring area.

Object Counting
(SND-3080C)Scene Change
Detection
(Tampering)Appear / Disappear
Detection

3) Virtual Line

It activates an alarm when an intruder Enters or Exits a virtual boundary area on the monitor.

4) Enter / Exit

It activates an alarm when an intruder comes into a virtual boundary line on the monitor.

5) Scene Change (Tampering)

Scene change detection can detect interference and sends an alarm signal when the camera's operation has been Tampered with, such as a manual change in the camera's angle, removal of the camera lens, defocus and blockage of the camera lens with cloth or spray paint.

* The intelligent video analytics functions supported by each camera can vary by model.

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.



SSNRIII Off



SSNRIII On

SSDR (Samsung Super Dynamic Range)

Useful in high contrast or backlight scene. Automatically lighten 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.



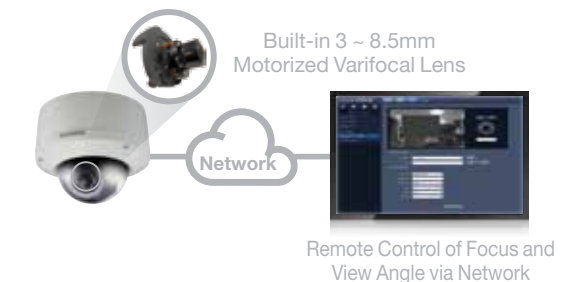
SSDR Off



SSDR On

Remote Focus Control

The HD resolution dome and bullet cameras incorporated a motorized varifocal so that users can adjust the focus and view angle of the camera very easily through the network from a remote site without having to visit the installation and open the camera's housing.

Remote Control of Focus and
View Angle via Network

Convenient Management through CMS (Central Management Software)

The NET-i viewer is a central management software from Samsung to manage multi channel videos. It provides a solution to control Samsung network products which are connected to the network through a single user interface.



NET-i viewer Live



NET-i viewer Map



Entrances and emergency exits

(Recommended product : [SND-7080](#), [SNV-5080R](#), [SND-3082](#))

The cameras installed on the entrances and emergency exits of buildings should produce an excellent performance in low contrast scene using Wide Dynamic Range; day and night. In particular, the emergency exits are generally poorly lit; it is for this reason that cameras equipped with interred illumination are installed.



External entrance (Recommended product : [SNB-7000](#), [SNB-3002](#))

For the external entrance where all visitors and vehicles come in and out, a high-resolution and excellent low-contrast correction model should be installed. If you need to identify the plate number of a vehicle, it is advisable to install a dedicated camera in sync with a 1CH network encoder.



Elevator (Recommended product : [SNV-5010](#), [SND-3082](#))

An elevator camera is mostly used to detect damage to property and to prevent an incident involving passengers. However, it is possible for a single camera with a (3mm fixed lens or 3.9x variable focus lens) wide angle lens can cover the whole area inside the elevator.



Counter facilities (Recommended product : [SNO-5080R](#), [SNB-3002](#))

To detect an intrusion at night, a camera equipped with the IR illumination can be installed at counter facility. For night-time surveillance, select a PTZ-enabled camera that can be linked with intrusion detecting sensors.



Parking lot (Recommended product : [SNB-5000](#), [SNB-3002](#))

A suitable number of excellent low-contrast visibility cameras should be installed viewing the lines of the parking lot, where damages to cars and accidents can occur.



Inside / outside of the building

(Recommended product : [SND-7080](#), [SNP-5200H](#), [SNP-3371TH](#))

In crowded areas where people are continually moving in and out of a building, it is necessary to install a camera that supports high resolution with wide visibility and also can have durability against dust or humidity.



Production line (Recommended product : [SNP-5200](#), [SNP-3302](#))

For the production line, it is recommended to install a camera that covers a wide area of the workshop where workers congregate during operational hours that can protect itself from on-site dust. Generally speaking housings with integrated model is suitable for this purpose.



Logistics warehouse

(Recommended product : [SNO-7080R](#), [SNV-7080R](#), [SNP-3371TH](#))

For the logistics warehouse, a model featuring the infrared illumination and high-resolution imagery is recommended.



Main road (Recommended product : [SNP-5200H](#), [SNP-3371TH](#))

For the main road with high volumes of traffic, it is necessary to install a camera that enables pan/tilt/zoom operations with high-resolution, which are useful especially for general/night surveillance.



Control room

The control center that monitors and controls the overall system status must provide an efficient integrated supervisory management environment that can view and store the surveillance video upon demand.

Blue : HD / Black : SD

Recommended Products by the Application



Network Product Line up

Network Camera

	SNB-7000	SNB-5000	SNB-3002	SNB-1001
				
Image Sensor	1/2.8" 3M PS CMOS	1/3" 1.3M PS CMOS	1/3" Super HAD PS CCD	1/4" PS CMOS
Min. Illumination	Color : 1Lux (50 IRE), B/W : 0.08Lux (50 IRE)	Color : 0.3Lux (50 IRE), B/W : 0.01Lux (50 IRE)	Color : 0.4Lux (50 IRE), B/W : 0.04Lux (50 IRE)	0.7Lux
Day & Night	Yes (ICR)	Yes (ICR)	Yes (ICR)	Yes (S/W)
Wide Dynamic Range	Yes	N/A	Yes	N/A
Analogue Out	CVBS 1.0Vp-p	CVBS 1.0Vp-p	CVBS 1.0Vp-p	DIP connector type
Focal Length	N/A	N/A	N/A	N/A
Zoom Ratio	N/A	N/A	N/A	N/A
Video Compression	H.264, MJPEG	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG	H.264, MJPEG
Streaming	Multiple streaming	Multiple streaming	Multiple streaming	Multiple streaming
Max. Resolution	2048 x 1536	1280 x 1024	NTSC : 704 x 480, PAL : 704 x 576	640 x 480
Max. Frame Rate	20fps at 3M	30fps	NTSC : 30fps, PAL : 25fps	30fps
Audio I/O	Mic / Line in, Line out, (Bi-directional audio)	Mic / Line in, Line out, (Bi-directional audio)	Mic / Line in, Line out, (Bi-directional audio)	Mic / Line in, Line out, (Bi-directional audio)
Audio Compression	G.711 u-law	G.711 u-law	G.711 u-law	G.711 u-law
Memory Slot	Yes (SD/SDHC)	Yes (SD/SDHC)	Yes (SD/SDHC)	Yes (Micro SD/SDHC)
Alarm I/O	1 / 1	1 / 1	1 / 1	Input 1
Intelligent Video Analytics	Yes	Yes	Tampering	Face detection
Power Requirement	24V AC, 12V DC, PoE (IEEE802.3af)	24V AC, 12V DC, PoE (IEEE802.3af)	24V AC, 12V DC, PoE (IEEE802.3af)	12V DC, PoE (IEEE802.3af)

	SNZ-5200	SNO-7080R	SNO-5080R	SNO-1080R
				
Image Sensor	1/3" 1.3M PS CMOS	1/2.8" 3M PS CMOS	1/3" 1.3M PS CMOS	1/4" PS CMOS
Min. Illumination	Color : 0.7Lux (50 IRE), B/W : 0.08Lux (50 IRE)	Color : 1Lux (50 IRE), B/W : 0Lux (50 IRE, IR LED on)	Color : 0.3Lux (50 IRE), B/W : 0Lux (50 IRE, IR LED on)	Color : 0.7Lux (F1.2), B/W : 0Lux (IR LED on)
Day & Night	Yes (ICR)	Yes (ICR)	Yes (ICR)	Yes (ICR)
Wide Dynamic Range	N/A	Yes	N/A	N/A
Analogue Out	CVBS 1.0Vp-p	CVBS 1.0Vp-p	DIP connector type	DIP connector type
Focal Length	4.45 ~ 89mm	3 ~ 8.5mm (Motorized V/F lens)	2.8 ~ 10mm	2.3 ~ 7.9mm
Zoom Ratio	20x	2.8x	3.6x	3.4x
Video Compression	H.264, MPEG-4, MJPEG	H.264, MJPEG	H.264, MPEG-4, MJPEG	H.264, MJPEG
Streaming	Multiple streaming	Multiple streaming	Multiple streaming	Multiple streaming
Max. Resolution	1280 x 1024	2048 x 1536	1280 x 1024	640 x 480
Max. Frame Rate	30fps	20fps at 3M	30fps at HD (720p)	30fps at all resolutions
Audio I/O	Mic / Line in, Line out, (Bi-directional audio)	Mic / Line in, Line out, (Bi-directional audio)	N/A	N/A
Audio Compression	G.711 u-law	G.711 u-law	N/A	N/A
Memory Slot	Yes (SD/SDHC)	Yes (SD/SDHC, 4GB included)	N/A	N/A
Alarm I/O	1 / 1	1 / 1	1 / 1	Input 1
Intelligent Video Analytics	Yes	N/A	Yes	Face detection
Power Requirement	12V DC, PoE (IEEE802.3af)	24V AC, 12V DC, PoE (IEEE802.3af)	24V AC, 12V DC, PoE (IEEE802.3af)	12V DC, PoE (IEEE802.3af)

	SND-7080/7080F	SND-5080/5080F	SND-3082/3082F	SND-1080
				
Image Sensor	1/2.8" 3M PS CMOS	1/3" 1.3M PS CMOS	1/3" Super HAD PS CCD	1/4" PS CMOS
Min. Illumination	Color : 1Lux (50 IRE), B/W : 0.08Lux (50 IRE)	Color : 0.3Lux (50 IRE), B/W : 0.01Lux (50 IRE)	Color : 0.4Lux (50 IRE), B/W : 0.04Lux (50 IRE)	0.7Lux
Day & Night	Yes (ICR)	Yes (ICR)	Yes (ICR)	Yes (S/W)
Wide Dynamic Range	Yes	N/A	Yes	N/A
Analogue Out	CVBS 1.0Vp-p	CVBS 1.0Vp-p	CVBS 1.0Vp-p	DIP connector type
Focal Length	3 ~ 8.5mm (Motorized V/F lens)	2.8 ~ 10mm	2.8 ~ 11mm	2.2 ~ 7.7mm
Zoom Ratio	2.8x	3.6x	3.9x	
Video Compression	H.264, MJPEG	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG	H.264, MJPEG
Streaming	Multiple streaming	Multiple streaming	Multiple streaming	Multiple streaming
Max. Resolution	2048 x 1536	1280 x 1024	NTSC : 704 x 480, PAL : 704 x 576	640 x 480
Max. Frame Rate	20fps at 3M	30fps	NTSC : 30fps, PAL : 25fps	30fps at all resolutions
Audio I/O	Mic / Line in, Line out, (Bi-directional audio)	Mic / Line in, Line out, (Bi-directional audio)	Mic / Line in, Line out, (Bi-directional audio)	Mic / Line in, Line out, (Bi-directional audio)
Audio Compression	G.711 u-law	G.711 u-law	G.711 u-law	G.711 u-law
Memory Slot	Yes (SD/SDHC)	Yes (SD/SDHC)	Yes (SD/SDHC)	Yes (Micro SD/SDHC)
Alarm I/O	1 / 1	1 / 1	1 / 1	Input 1
Intelligent Video Analytics	Yes	Yes	Tampering	Face detection
Power Requirement	24V AC, 12V DC, PoE (IEEE802.3af)	24V AC, 12V DC, PoE (IEEE802.3af)	24V AC, 12V DC, PoE (IEEE802.3af)	12V DC, PoE (IEEE802.3af)

	SND-1011	SNV-7080	SNV-5080	SNV-5010
				
Image Sensor	1/4" PS CMOS	1/2.8" 3M PS CMOS	1/3" 1.3M PS CMOS	1/3" 1.3M PS CMOS
Min. Illumination	0.7Lux	Color : 1Lux (50 IRE), B/W : 0.08Lux (50 IRE)	Color : 0.3Lux (50 IRE), B/W : 0.01Lux (50 IRE)	Color : 1Lux (50 IRE)
Day & Night	Yes (S/W)	Yes (ICR)	Yes (ICR)	N/A
Wide Dynamic Range	N/A	Yes	N/A	N/A
Analogue Out	DIP connector type	CVBS 1.0Vp-p	CVBS 1.0Vp-p	DIP connector type
Focal Length	3mm	3 ~ 8.5mm (Motorized V/F lens)	2.8 ~ 10mm	3mm
Zoom Ratio	N/A	2.8x	3.6x	N/A
Video Compression	H.264, MJPEG	H.264, MJPEG	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG
Streaming	Multiple streaming	Multiple streaming	Multiple streaming	Multiple streaming
Max. Resolution	640 x 480	2048 x 1536	1280 x 1024	1280 x 1024
Max. Frame Rate	30fps at all resolutions	20fps at 3M	30fps	30fps
Audio I/O	N/A	Mic / Line in, Line out, (Bi-directional audio)	Mic / Line in, Line out, (Bi-directional audio)	N/A
Audio Compression	N/A	G.711 u-law	G.711 u-law	N/A
Memory Slot	Yes (Micro SD/SDHC)	Yes (SD/SDHC)	Yes (SD/SDHC)	N/A
Alarm I/O	Input 1	1 / 1	1 / 1	N/A
Intelligent Video Analytics	Face detection	Yes	Yes	Yes
Power Requirement	12V DC, PoE (IEEE802.3af)	24V AC, 12V DC, PoE (IEEE802.3af)	24V AC, 12V DC, PoE (IEEE802.3af)	12V DC, PoE (IEEE802.3af)

	SNV-3082	SNV-1080	SNV-7080R	SNV-5080R
				
Image Sensor	1/3" Super HAD PS CCD	1/4" PS CMOS	1/2.8" 3M PS CMOS	1/3" 1.3M PS CMOS
Min. Illumination	Color : 0.4Lux (50 IRE), B/W : 0.04Lux (50 IRE)	0.7Lux	Color : 1Lux (50 IRE), B/W : 0Lux (50 IRE, IR LED on)	Color : 0.3Lux (50 IRE), B/W : 0Lux (50 IRE, IR LED on)
Day & Night	Yes (ICR)	Yes (S/W)	Yes (ICR)	Yes (ICR)
Wide Dynamic Range	Yes	N/A	Yes	N/A
Analogue Out	CVBS 1.0Vp-p	DIP connector type	CVBS 1.0Vp-p	CVBS 1.0Vp-p
Focal Length	2.8 ~ 11mm	2.2 ~ 7.7mm	3 ~ 8.5mm (Motorized V/F lens)	3 ~ 8.5mm (Motorized V/F lens)
Zoom Ratio	3.9x	3.5x	2.8x	2.8x
Video Compression	H.264, MPEG-4, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MPEG-4, MJPEG
Streaming	Multiple streaming	Multiple streaming	Multiple streaming	Multiple streaming
Max. Resolution	NTSC : 704 x 480, PAL : 704 x 576	640 x 480	2048 x 1536	1280 x 1024
Max. Frame Rate	NTSC : 30fps, PAL : 25fps	30fps at all resolutions	20fps at 3M	30fps at HD (720p)
Audio I/O	Mic / Line in, Line out, (Bi-directional audio)	Mic / Line in, Line out, (Bi-directional audio)	Mic / Line in, Line out, (Bi-directional audio)	Mic / Line in, Line out, (Bi-directional audio)
Audio Compression	G.711 u-law	G.711 u-law	G.711 u-law	G.711 u-law
Memory Slot	Yes (SD/SDHC)	Yes (Micro SD/SDHC)	Yes (SD/SDHC)	Yes (SD/SDHC)
Alarm I/O	1 / 1	Input 1	1 / 1	1 / 1
Intelligent Video Analytics	Tampering	Face detection	Yes	Yes
Power Requirement	24V AC, 12V DC, PoE (IEEE802.3af)	12V DC, PoE (IEEE802.3af)	24V AC, 12V DC, PoE (IEEE802.3af)	24V AC, 12V DC, PoE (IEEE802.3af)

	SNP-5200/5200H	SNP-3371TH/3371H	SNP-3371	SNP-3302H/3302	SNP-3120/3120VH
					
Image Sensor	1/3" 1.3M PS CMOS	1/4" Vertical double density interline CCD	1/4" Vertical double density interline CCD	1/4" Vertical double density interline CCD	1/4" Ex-view HAD PS CCD
Min. Illumination	Color : 0.7Lux (50 IRE), B/W : 0.08Lux (50 IRE)	Color : 0.7Lux (50 IRE), B/W : 0.07Lux (50 IRE)	Color : 0.7Lux (50 IRE), B/W : 0.07Lux (50 IRE)	Color : 0.7Lux (50 IRE), B/W : 0.07Lux (50 IRE)	Color : 0.7Lux (50 IRE), B/W : 0.07Lux (50 IRE)
Day & Night	Yes (ICR)	Yes (ICR)	Yes (ICR)	Yes (ICR)	Yes (ICR)
Wide Dynamic Range	Yes	Yes	Yes	Yes	Yes
Analogue Out	CVBS 1.0Vp-p	CVBS 1.0Vp-p	CVBS 1.0Vp-p	CVBS 1.0Vp-p	CVBS 1.0Vp-p
Focal Length	4.45 ~ 89mm	3.5 ~ 129.5mm	3.5 ~ 129.5mm	3.5 ~ 105.3mm	3.69 ~ 44.32mm
Zoom Ratio	20x	37x	37x	30x	12x
Video Compression	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG
Streaming	Multiple streaming	Multiple streaming	Multiple streaming	Multiple streaming	Multiple streaming
Max. Resolution	1280 x 1024	NTSC : 704 x 480, PAL : 704 x 576	NTSC : 704 x 480, PAL : 704 x 576	NTSC : 704 x 480, PAL : 704 x 576	NTSC : 704 x 480, PAL : 704 x 576
Max. Frame Rate	30fps at all resolutions	NTSC : 30fps, PAL : 25fps	NTSC : 30fps, PAL : 25fps	NTSC : 30fps, PAL : 25fps	NTSC : 30fps, PAL : 25fps
Audio I/O	Mic / Line in, Line out, (Bi-directional audio)	Mic / Line in, Line out, (Bi-directional audio)	Mic / Line in, Line out, (Bi-directional audio)	Mic / Line in, Line out, (Bi-directional audio)	Mic / Line in, Line out, (Bi-directional audio)
Audio Compression	G.711 u-law	G.711 u-law	G.711 u-law	G.711 u-law	G.711 u-law
Memory Slot	Yes (SD/SDHC)	Yes (SD/SDHC)	Yes (SD/SDHC)	Yes (SD/SDHC)	Yes (SD/SDHC)
Alarm I/O	4 / 2	4 / 2	4 / 2	4 / 2	2 / 2
Intelligent Video Analytics	Yes	Auto tracking : SNP-3371TH	Yes	Yes	Moved / Fixed
Power Requirement	24V AC, PoE+ (IEEE802.3at)	24V AC, PoE+ (IEEE802.3at)	24V AC, PoE+ (IEEE802.3at)	24V AC, PoE+ (IEEE802.3at)	24V AC, PoE+ (IEEE802.3at)

Network Product Line up

Network Recorder / Encoder / Decoder / Software

	Network Video Recorder		Network Video Encoder	
	SRN-1670D	SRN-470D	SPE-400	SPE-100
				
Features	• 16CH network video recorder • Full HD resolution support • H.264, MPEG-4, MJPEG codec • 64Mbps recording bit rate • Local monitor output : HDMI & VGA • Built-in 1TB HDD • DVD writer support	• 4CH network video recorder • Full HD resolution support • H.264, MPEG-4, MJPEG codec • 64Mbps recording bit rate • Local monitor output : HDMI & VGA • Built-in 1TB HDD • DVD writer support	• Max. 30(25)fps at 4CIF resolution • H.264, MPEG-4, MJPEG multiple codec • Multiple streaming simultaneously • 10/100/1000BASE-T • SD memory, bi-directional audio support	• Max. 30(25)fps at 4CIF resolution • H.264, MPEG-4, MJPEG multiple codec • Multiple streaming simultaneously • 10/100BASE-T • PoE, SD memory, bi-directional audio support
	Network Video Encoder		Central Management Software	Recording Software
	SPE-101	SPD-400	NET-i viewer	NET-i ware
				
Features	• Max. 30(25)fps at 4CIF resolution • H.264, MPEG-4, MJPEG multiple codec • Multiple streaming simultaneously • 10/100BASE-T • PoE	• H.264, MPEG-4, MJPEG decoding • Full HD (1080p) video output • Single and quad view • Sequence mode for multiple video sources	• Up to 64 channels real-time live monitoring simultaneously in single PC • Support for various video format : H.264, MPEG-4, MJPEG • Support for various audio format : G.726, G.711, G.723 • Support for various video resolution • Powerful E-map based monitoring	• Recording software for Samsung network cameras • High performance recording : up to 250Mbps • Triplex operation performance • Support for various recording options • Notification in case of event occurring

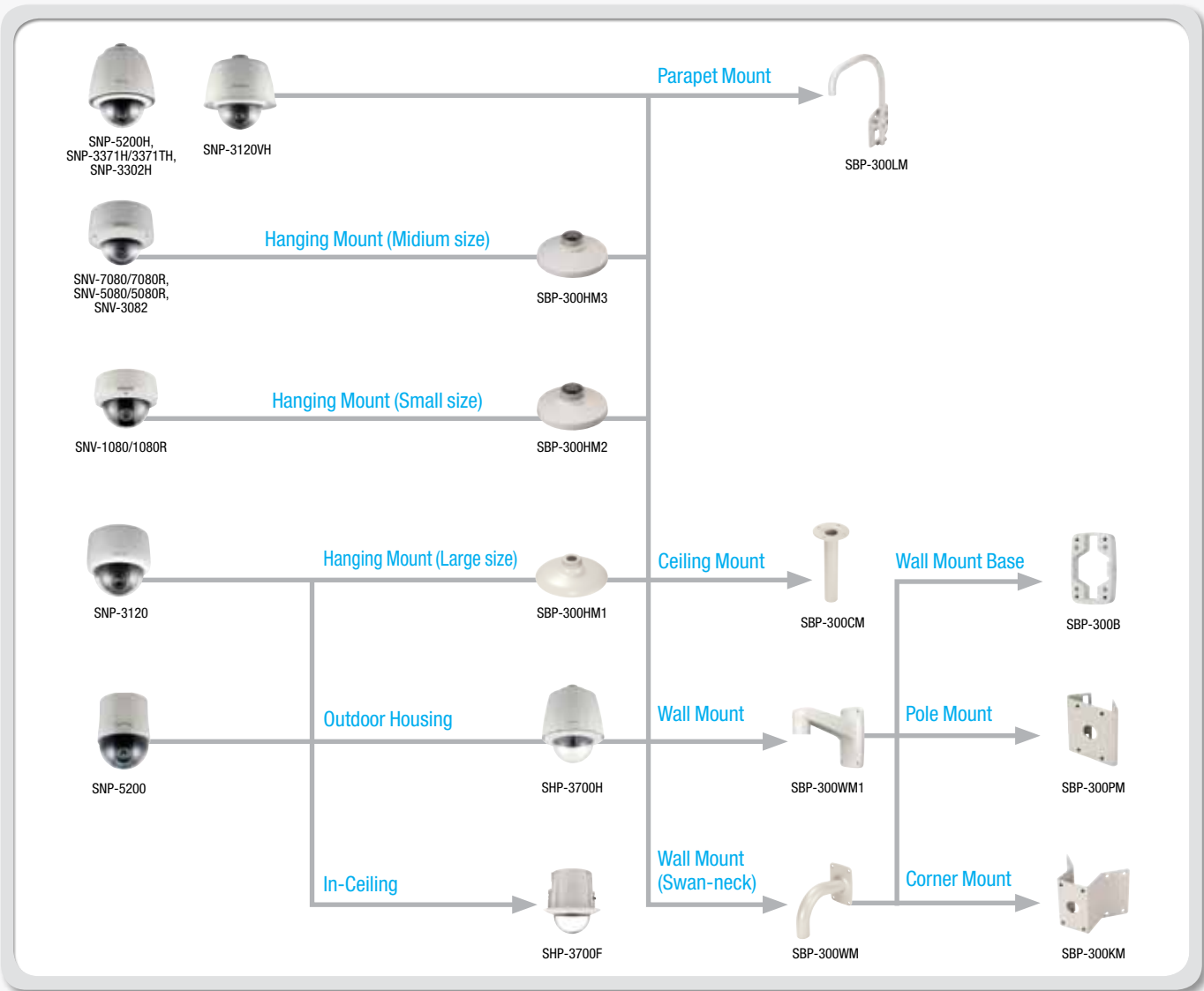
Accessory

	Housing / Mounts			
	SHP-3700H	SHP-3700F	SBP-300WM1	SBP-300WM
				
Features	• For outdoor applications • Weatherproof rated to P66 • Aluminium + Polycarbonate	• For indoor applications • Polycarbonate	• Wall Mount • Aluminum + SECC • Can be used with hanging mount and outdoor PTZ	• Wall Mount • Aluminum + SECC • Can be used with hanging mount and outdoor PTZ
	Housing / Mounts			
	SBP-300B	SBP-300CM	SBP-300HM1	SBP-300HM2
				
Features	• Wall Mount Base • Aluminum + SECC • Can be used with SBP-300WM/300WM1	• Ceiling Mount • Aluminum + SECC • Can be used with hanging mount and Outdoor PTZ	• Hanging Mount • Aluminum • Can be used with SCP-3370/2370, SCP-2270, SCP-2250, SCP-3120, SNP-5200, SNP-3371, SNP-3302	• Hanging Mount • Aluminum • Can be used with SCV-3081, SCV-2081, SCV-2081R, SNV-1080

Accessory

	Housing / Mounts			
	SBP-300HM3	SBP-300LM	SBP-300PM	SBP-300HM2
				
Features	• Hanging Mount • Aluminum • Can be used with SNV- 7080/7080R, SNV-5080R, SNV-3082	• Parapet Mount • Aluminum + SECC • Can be used with hanging mount and outdoor PTZ	• Pole Mount • For mounts to pole • SECC • Can be used with SBP-300CM/300WM/300WM1	• Corner Mount • For mounts to pole • SECC • Can be used with SBP-300CM/300WM/300WM1

Accessories Configuration



Network System Configuration

Notification

- For mid/large size network system application, please refer the network calculator from our web-site (http://www.samsungsecurity.com/support/net_calculate.asp)
- The measured values in this page are estimated in VBR / Samsung Techwin indoor test room, and can varies by installation environments.

Bandwidth Calculator

VBR, Unit : Mbps

Resolution	Condition	1EA	5EA	10EA	20EA	Model
QVGA (320x240)	H.264 / 15fps / 10 compression	0.49	2.45	4.9	9.8	SNB-1001 based
VGA (640x480)	H.264 / 15fps / 10 compression	1.4	7	14	28	SNB-1001 based
HD 720p	H.264 / 15fps / 10 compression	6.4	32	64	128	SNB-7000 based
Full HD 1080p	H.264 / 15fps / 10 compression	15	75	150	300	SNB-7000 based
1.3M 1280x1024 SXGA	H.264 / 15fps / 10 compression	9.2	46	92	184	SNB-7000 based
1.9M 1600x1200 UXGA	H.264 / 15fps / 10 compression	12.6	63	126	252	SNB-7000 based
3.1M 2048x1536 QXGA	H.264 / 15fps / 10 compression	19.3	96.5	193	386	SNB-7000 based

HDD Calculator

1EA Camera, Unit : GByte

Resolution	Condition	1 Day	10 Days	30 Days	60 Days	Model
QVGA (320x240)	H.264 / 15fps / 10 compression	5.292	52.92	158.76	317.52	SNB-1001 based
VGA (640x480)	H.264 / 15fps / 10 compression	15.12	151.2	453.6	907.2	SNB-1001 based
HD 720p	H.264 / 15fps / 10 compression	69.12	691.2	2073.6	4147.2	SNB-7000 based
Full HD 1080p	H.264 / 15fps / 10 compression	162	1620	4860	9720	SNB-7000 based
1.3M 1280x1024 SXGA	H.264 / 15fps / 10 compression	99.36	993.6	2980.8	5961.6	SNB-7000 based
1.9M 1600x1200 UXGA	H.264 / 15fps / 10 compression	136.08	1360.8	4082.4	8164.8	SNB-7000 based
3.1M 2048x1536 QXGA	H.264 / 15fps / 10 compression	208.44	2084.4	6253.2	12506.4	SNB-7000 based

* The HDD size should be considered with the cameras to use and network bandwidth. Detailed information can be found from the web-site. (http://www.samsungsecurity.com/support/net_calculate.asp)

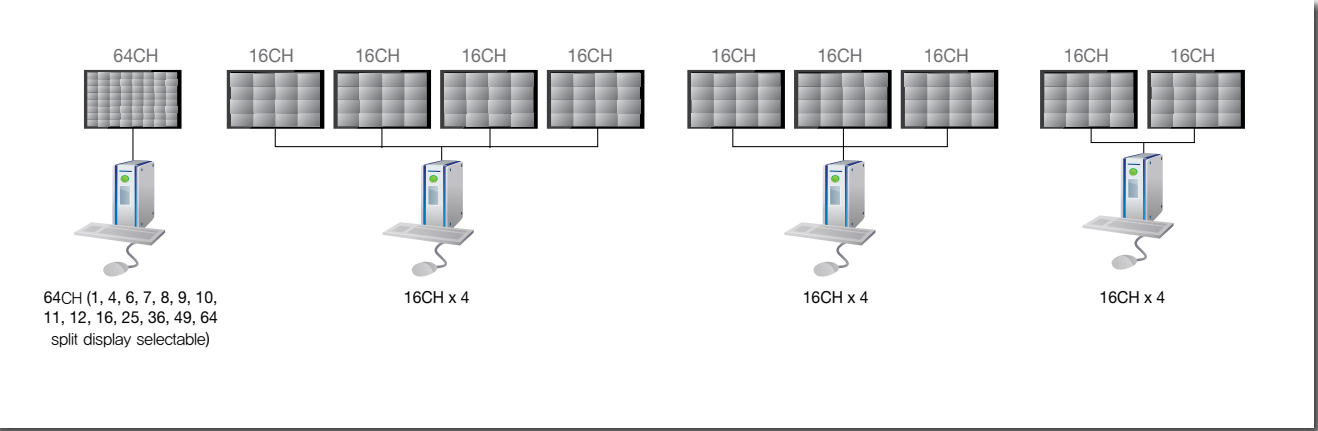
NVR Calculator

Model	Network Video Recorder		SNS-SF016	SNS-SF032	SNS-SF064
	SRN-1670D	SRN-470D			
Recording Channel	16CH	4CH	16CH	32CH	64CH
Recording Performance	64Mbps	64Mbps	250Mbps	250Mbps	250Mbps

NET-i viewer system requirement

- CPU Intel i7 above, RAM 3GB above, Video memory 1GB above, HDD 200GB above, DirectX 8.1 above.
- Display resolution : 1,280 x 1,024 above, OpenGL compatible,
 - OS : Window XP Professional, Windows 2000 Professional, Windows Vista Home Basic / Premium / Ultimate, Windows 7 (64bit / 32bit)

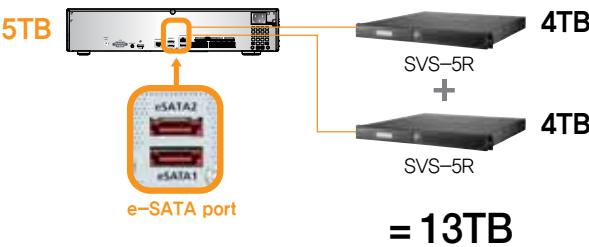
NET-i viewer Monitor Display



HDD Extension

1. Hardware NVR

SRN-1670D/470D



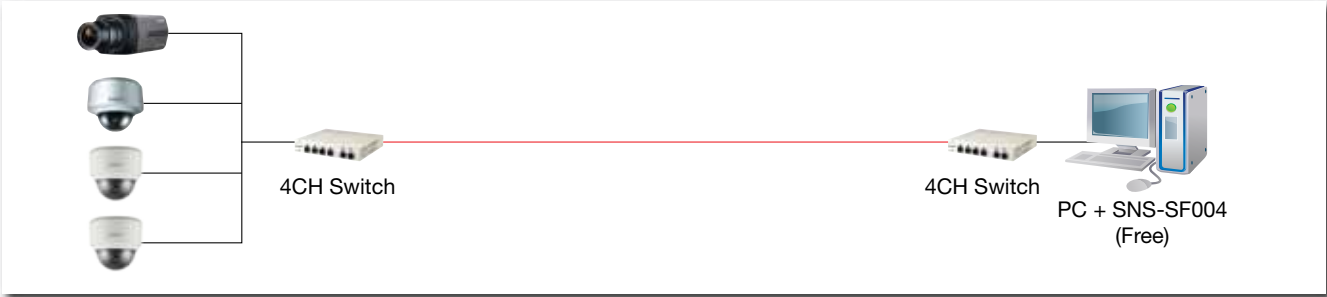
2. Software NVR

- NET-i ware (SNS-SF064)
 - The scalability depends on PC system specifications.
- 1) PC Internal expansion type
 - Additional drive installation up to the number of SATA port on the PC main board

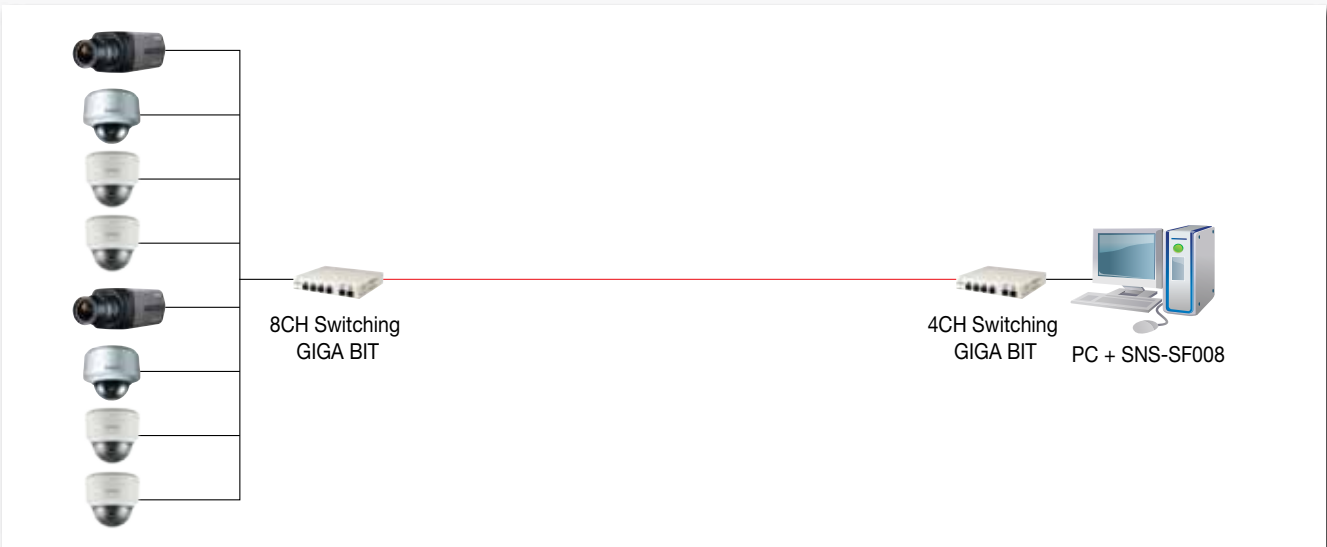
2) PC External expansion type
 - DAS (Direct Attached Storage)
 - Connect storage server to PC e-SATA port
 - To install expansion board to the main board and add HDDs
-
-
- 14
- Network System Configuration 15

Network System Configuration

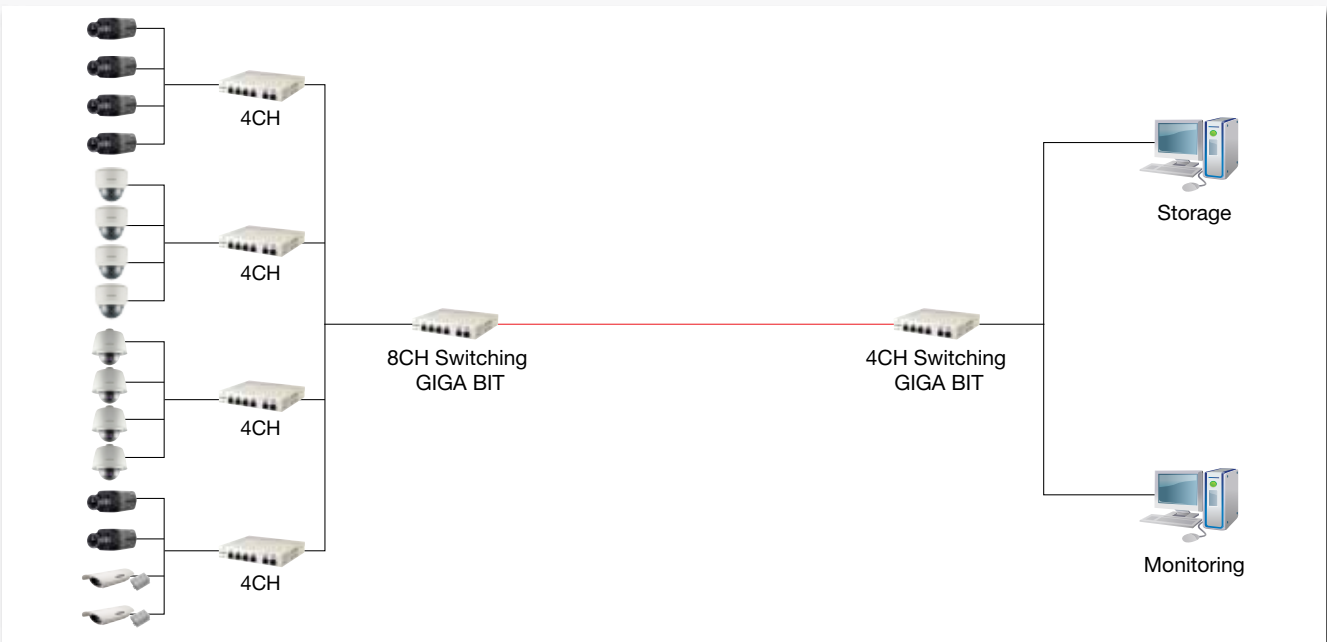
Small application with PC+S/W (4 or less than 4 cameras)



Small application with PC+S/W (8 or less than 8 cameras)

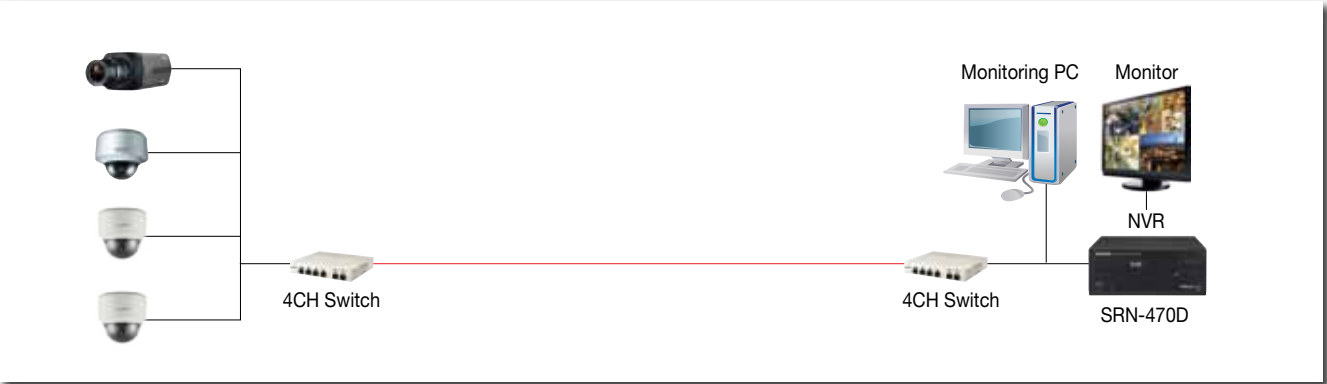


Small application with PC+S/W (16 or less than 16 cameras)

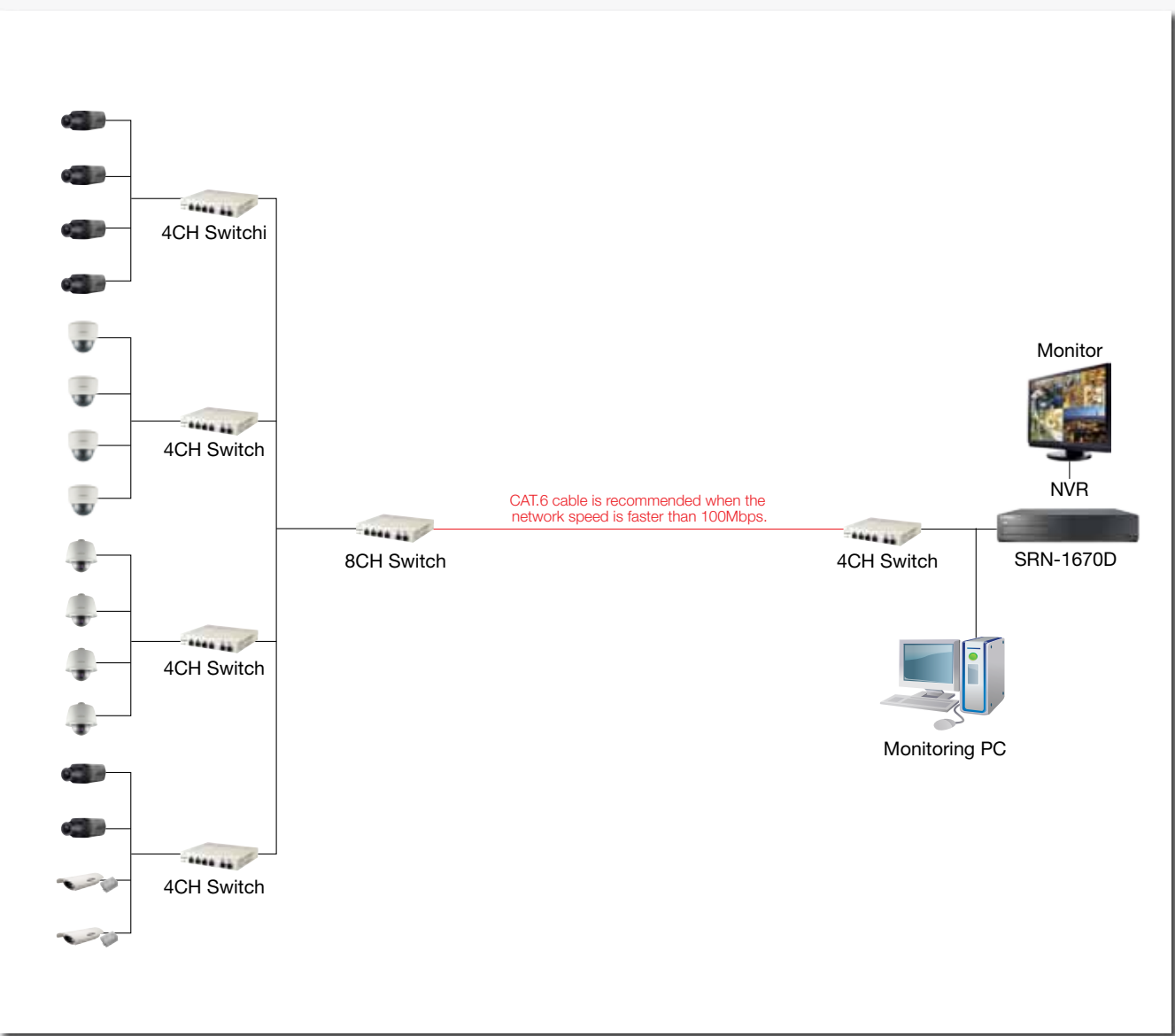


※ The network speed can be lowered when using shared network

Small application with NVR (4 or less than 4 cameras)

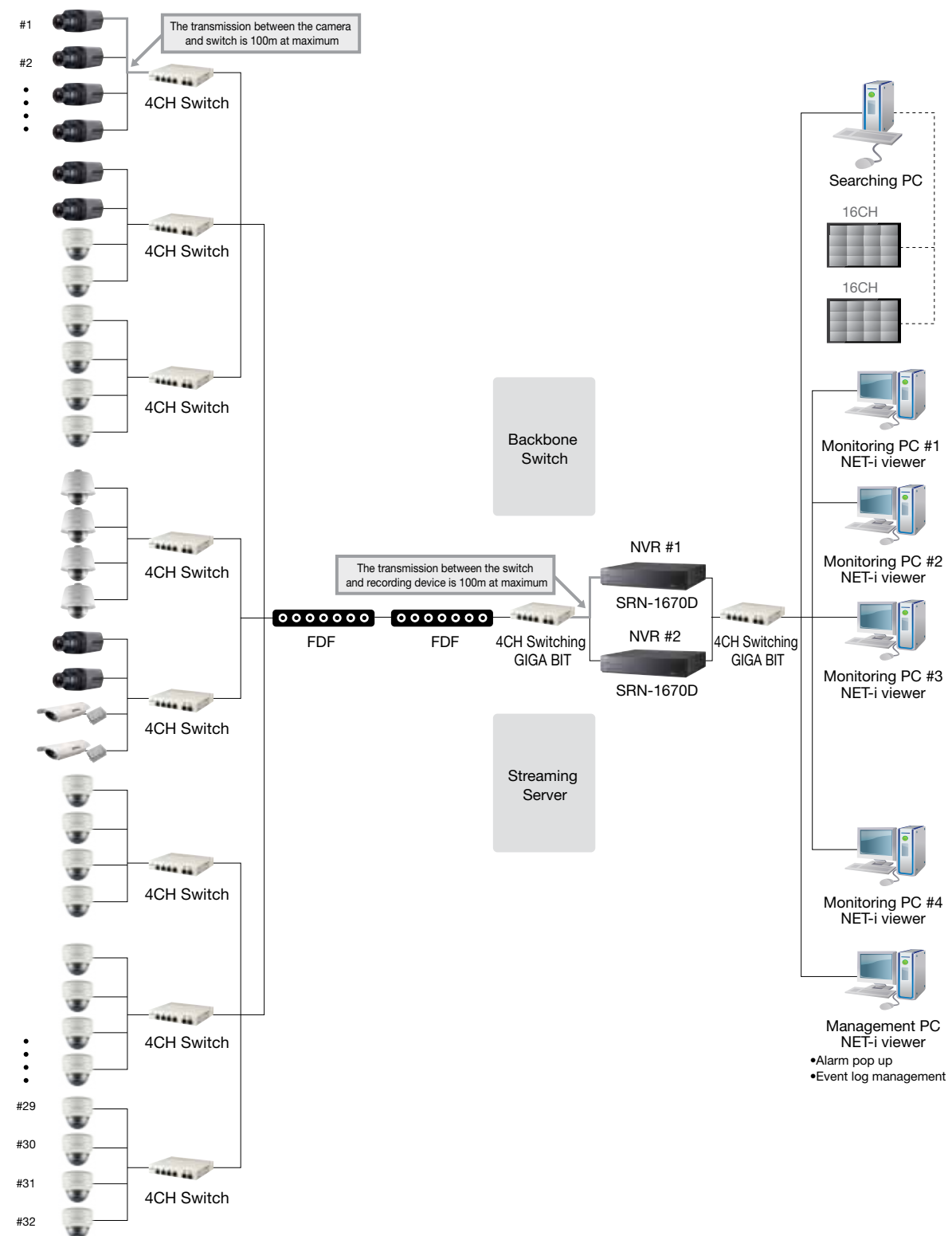


Small application with NVR (16 or less than 16 cameras)

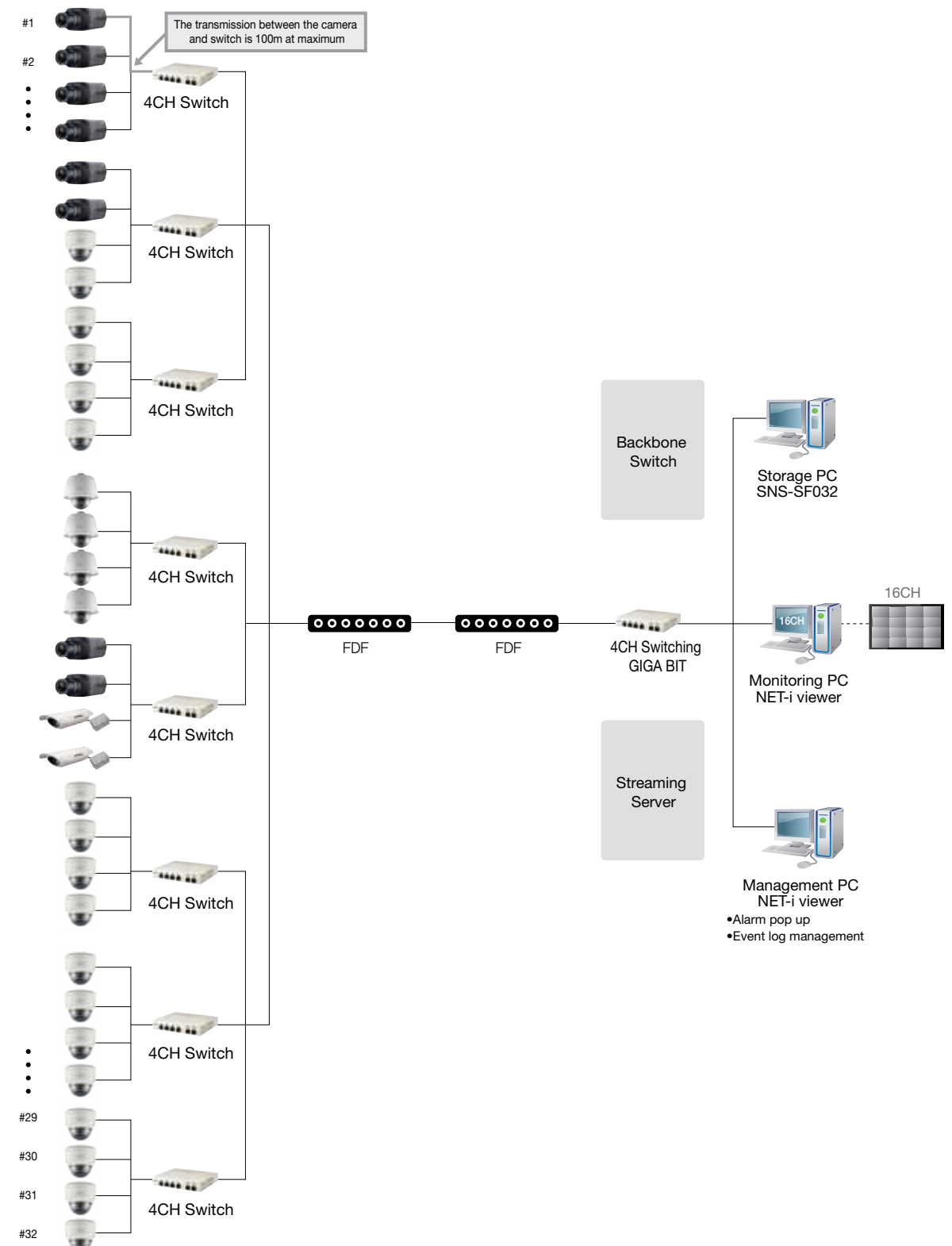


Network System Configuration

Mid System with NVR (32 cameras)

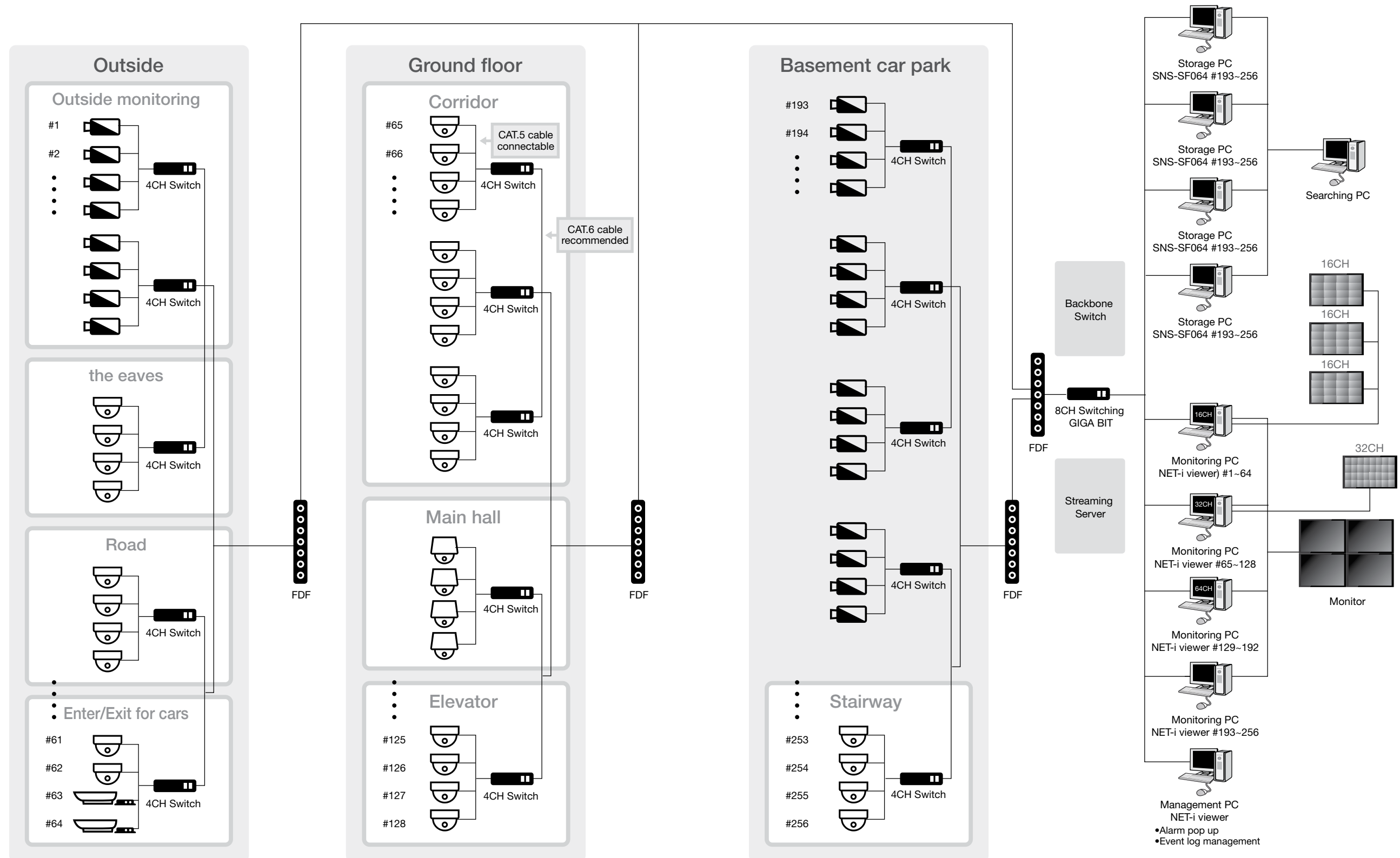


Mid System with PC+S/W (32 cameras)



Network System Configuration

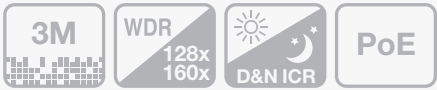
Large System with PC+S/W



SNB-7000

3Megapixel Full HD Network Camera

iPOLiS



Key Features

- Max. 3M (2048 x 1536) resolution
- 16 : 9 Full HD (1080p) resolution support
- H.264, MJPEG dual codec
- Multiple streaming
- Smart compression (ROI encoding)

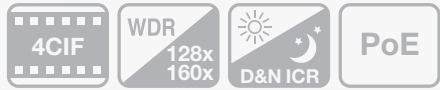


	SNB-7000N/P
Imaging Device	1/2.8" 3M PS CMOS
Scanning System	Progressive
Min. Illumination	Color : 1Lux (F1.2, 50IRE), B/W : 0.08Lux (F1.2, 50IRE)
Day & Night	Auto (ICR) / Color / B/W / External B/W
Image Compensation	SSDR, SSNRIII, Full HD WDR
Other	Motion detection, Privacy masking
Intelligent Video Analytics	Scene change, Virtual line, Enter / Exit, Appear / Disappear
Alarm I/O	Input 1ea / Output 1ea (Relay)
Video Compression Format	H.264, MJPEG
Max. Resolution	3M mode - 2048 x 1536, 2M mode - 1920 x 1080P (Full HD)
Max. Framerate	3M mode - Max. 20fps at all resolutions 2M mode - Max. 30fps at all resolutions (When WDR on, Max. framerate is Max. 15fps.)
Streaming Capability	Multiple streaming (Up to 6 profiles)
Audio I/O	Mic / Line in, Line out
Audio Compression Format	G.711 u-law
IP	IPv4, IPv6
Memory Slot	SD/SDHC memory slot
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / 20% ~ 80% RH
Input Voltage / Current	12V DC, 24V AC, PoE (IEEE802.3af)
Power Consumption	Max. 6W (12V DC), Max. 7W (24V AC, PoE)
Dimensions (WxHxD)	72.0 x 60.0 x 136.8mm (2.83" x 2.36" x 5.39")
Weight	440g (0.97 lb)

SNB-3002

4CIF WDR Network Camera

iPOLiS



Key Features

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

	SNB-3002N	SNB-3002P
Imaging Device	1/3" Super HAD PS CCD	
Scanning System	Progressive (If WDR on, Interlaced scan)	
Min. Illumination	Color : 0.4Lux (F1.2, 50IRE), B/W : 0.04Lux (F1.2, 50IRE)	
Day & Night	Auto (ICR) / Color / B/W / External B/W	
Image Compensation	SSDR, SSNRIII, WDR	
Other	Motion detection, Privacy masking	
Intelligent Video Analytics	Tempering	
Alarm I/O	Input 1ea / Output 1ea (Relay)	
Video Compression Format	H.264, MPEG-4, MJPEG	
Max. Resolution	704 x 480	704 x 576
Max. Framerate	30fps	25fps
Streaming Capability	Multiple streaming (Up to 10 profiles)	
Audio I/O	Mic / Line in, Line out	
Audio Compression Format	G.711 u-law	
IP	IPv4, IPv6	
Memory Slot	SD/SDHC memory slot	
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / 20% ~ 80% RH	
Input Voltage / Current	12V DC, 24V AC, PoE (IEEE802.3af)	
Power Consumption	Max. 6W	
Dimensions (WxHxD)	72.0 x 60.0 x 136.8mm (2.83" x 2.36" x 5.39")	
Weight	440g (0.97 lb)	

SNB-5000

1.3Megapixel HD Network Camera

iPOLiS



Key Features

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



	SNB-5000N/P
Imaging Device	1/3" 1.3M PS CMOS
Scanning System	Progressive
Min. Illumination	Color : 0.3Lux (F1.2, 50IRE), B/W : 0.01Lux (F1.2, 50IRE)
Day & Night	Auto (ICR) / Color / B/W / External B/W
Image Compensation	SSDR, SSNRIII
Other	Motion detection, Privacy masking
Intelligent Video Analytics	Scene change, Virtual line, Enter / Exit, Appear / Disappear
Alarm I/O	Input 1ea / Output 1ea (Relay)
Video Compression Format	H.264, MPEG-4, MJPEG
Max. Resolution	1280 x 1024, 1280 x 720P (HD)
Max. Framerate	H.264, MJPEG : 30fps, MPEG-4 : 25fps (1280 x 1024), 30fps (720P HD)
Streaming Capability	Multiple streaming (Up to 10 profiles)
Audio I/O	Mic / Line in, Line out
Audio Compression Format	G.711 u-law
IP	IPv4, IPv6
Memory Slot	SD/SDHC memory slot
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / 20% ~ 80% RH
Input Voltage / Current	12V DC, 24V AC, PoE (IEEE802.3af)
Power Consumption	Max. 6W
Dimensions (WxHxD)	72.0 x 60.0 x 136.8mm (2.83" x 2.36" x 5.39")
Weight	440g (0.97 lb)

SNB-1001

VGA Network Camera

iPOLiS



Key Features

- Max. 30fps at VGA resolution
- H.264, MJPEG dual codec
- Multiple streaming, SD memory

	SNB-1001N/P
Imaging Device	1/4" PS CMOS
Scanning System	Progressive
Min. Illumination	0.7Lux (F1.2)
Day & Night	Auto (S/W) / Color / B/W / External
Image Compensation	SSDR, SSNRIII
Other	Motion detection, Privacy masking
Intelligent Video Analytics	Face detection
Video Compression Format	H.264, MJPEG
Max. Resolution	640 x 480
Max. Framerate	Max. 30fps at all resolutions
Streaming Capability	Multiple streaming (Up to 10 profiles)
Audio I/O	Mic/Line in , Line out
Audio Compression Format	G.711 u-law
IP	IPv4, IPv6
Memory Slot	Micro SD/SDHC memory slot
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / 20% ~ 80% RH
Input Voltage / Current	12V DC / PoE (IEEE802.3af)
Power Consumption	Max. 3.4W (DC 12V), Max. 4W (PoE)
Dimensions (WxHxD)	74.3 x 54.5 x 114.4mm (2.93" x 2.15" x 4.50") excluding projections
Weight	190g (0.42 lb)

SNZ-5200

1.3 Megapixel HD 20x Network Zoom Camera

iPOLiS



Key Features

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

	SNZ-5200N/P
Imaging Device	1/3" 1.3M PS CMOS
Scanning System	Progressive
Min. Illumination	Color : 0.7Lux (F1.2, 50IRE), B/W : 0.08Lux (F1.6, 50IRE)
Focal Length (Zoom Ratio)	4.45 ~ 89mm (20x)
Max. Aperture Ratio	F1.6(Wide) / F2.9(Tele)
Angular Field of View	H : 56.56°(Wide) ~ 3.10°(Tele) / V : 43.32°(Wide) ~ 2.34°(Tele)
Day & Night	Auto (ICR) / Color / B/W
Image Compensation	SSDR, SSNRIII
Other	Motion detection, Privacy masking
Intelligent Video Analytics	Scene change, Virtual line, Enter / Exit, Appear / Disappear
Alarm I/O	Input 1ea / Output 1ea (Relay)
Remote Control Interface	RS-485
Video Compression Format	H.264, MPEG-4, MJPEG
Max. Resolution	1280 x 1024, 1280 x 720P (HD)
Max. Framerate	30fps
Streaming Capability	Multiple streaming (Up to 10 profiles)
Audio I/O	Mic / Line in, Line out
IP	IPv4, IPv6
Memory Slot	SD/SDHC memory slot
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / 20 ~ 80% RH
Input Voltage / Current	12V DC, PoE (IEEE802.3af)
Power Consumption	12V DC : Max. 8W, PoE : Max. 7.5W
Dimensions (WxHxD)	72.0 x 60.0 x 136.0mm (2.83" x 2.36" x 5.35")
Weight	540g (1.19 lb)

SNO-5080R

1.3 Megapixel HD Weatherproof Network IR Camera

iPOLiS



Key Features

- Max. 1.3M (1280 x 1024) resolution
- 16 : 9 HD (720p) resolution support
- 2.8 ~ 10mm (3.6x) varifocal lens
- H.264, MPEG-4, MJPEG multiple codec
- Multiple streaming
- IR LED (31ea), PoE

	SNO-5080RN/P
Imaging Device	1/3" 1.3M PS CMOS
Scanning System	Progressive
Min. Illumination	Color : 0.3Lux (F1.2, 50IRE), B/W : 0Lux (F1.2, 50IRE, IR LED on)
Focal Length (Zoom Ratio)	2.8 ~ 10mm (3.6x) varifocal
Max. Aperture Ratio	F1.2
Angular Field of View	H : 94.6°(Wide) ~ 28.8°(Tele), V : 68.4°(Wide) ~ 21.6°(Tele)
Day & Night	Auto (ICR) / Color / B/W
IR LED / Viewable Length	31ea, 30m
Image Compensation	SSDR, SSNRIII
Other	Motion detection, Privacy masking
Intelligent Video Analytics	Scene change, Virtual line, Enter / Exit, Appear / Disappear
Alarm I/O	Input 1ea / Output 1ea (Relay)
Video Compression Format	H.264, MPEG-4, MJPEG
Max. Resolution	1280 x 1024, 1280 x 720P (HD)
Max. Framerate	22fps (1280 x 1024), 30fps (720P HD)
Streaming Capability	Multiple streaming (Up to 10 profiles)
IP	IPv4, IPv6
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / Less than 90% RH
Ingress Protection	IP66 Grade (Waterproof)
Input Voltage / Current	12V DC, 24V AC, PoE (IEEE802.3af)
Power Consumption	Max. 11W
Dimensions (WxHxD)	86.0 x 86.3 x 332.8mm (3.39" x 3.40" x 13.10")
Weight	1.3Kg (2.87 lb)

SNO-7080R

3 Megapixel Full HD Weatherproof Network IR Camera

iPOLiS



Key Features

- Max. 3M (2048 x 1536) resolution
- 16 : 9 Full HD (1080p) resolution support
- 3 ~ 8.5mm (2.8x) motorized varifocal lens
- H.264, MJPEG dual codec
- Multiple streaming
- Smart compression (ROI encoding)

	SNO-7080RN/P
Imaging Device	1/2.8" 3M PS CMOS
Scanning System	Progressive
Min. Illumination	Color : 1Lux (F1.2, 50IRE), B/W : 0Lux (F1.2, 50IRE)
Focal Length (Zoom Ratio)	3 ~ 8.5mm (2.8x) Motorized varifocal
Max. Aperture Ratio	F1.2
Angular Field of View	H : 100°(Wide) ~ 35.3°(Tele), V : 74.6°(Wide) ~ 26°(Tele)
IR LED / Viewable Length	32ea, 30m
Day & Night	Auto (ICR) / Color / B/W / External B/W
Image Compensation	SSDR, SSNRIII, Full HD WDR
Other	Motion detection, Privacy masking
Alarm I/O	Input 1ea / Output 1ea (Relay)
Video Compression Format	H.264, MJPEG
Max. Resolution	3M mode - 2048 x 1536, 2M mode - 1920 x 1080P (Full HD)
Max. Framerate	3M mode - Max. 20fps at all resolutions 2M mode - Max 30fps at all resolutions (When WDR on, Max. framerate is Max. 15fps.)
Streaming Capability	Multiple streaming (Up to 6 profiles)
Audio I/O	Mic / Line in, Line out
IP	IPv4, IPv6
Memory Slot	SD/SDHC memory slot (4GB included)
Operating Temperature / Humidity	24V AC : -50°C ~ +50°C (-58°F ~ +122°F) / Less than 90% RH 12V DC, PoE : -10°C ~ +50°C (+14°F ~ +122°F) / Less than 90% RH
Ingress Protection	IP66 Grade (Waterproof)
Input Voltage / Current	12V DC, 24V AC, PoE (IEEE802.3af)
Power Consumption	16.5W (Heater On), 11.3W (Heater Off)
Dimensions (WxHxD)	Ø114.0 x 383.0mm (Ø4.49" x 15.08")
Weight	1.8Kg (3.97 lb)

SNO-1080R

VGA Weatherproof Network IR Camera

iPOLiS



Key Features

- Max. 30fps at VGA resolution
- 2.3 ~ 7.9mm (3.4x) varifocal lens
- H.264, MJPEG dual codec
- Multiple streaming
- IR LED (15ea), PoE

	SNO-1080RN/P
Imaging Device	1/4" PS CMOS
Scanning System	Progressive
Min. Illumination	Color : 0.7Lux (F1.2), B/W : 0Lux (IR LED on)
Focal Length (Zoom Ratio)	2.2 ~ 7.7mm (3.5x) varifocal
Max. Aperture Ratio	F1.2
Angular Field of View	H : 94°(Wide) ~ 26.5°(Tele), V : 70°(Wide) ~ 20°(Tele)
Day & Night	Auto (ICR) / Color / B/W / External
IR LED/Viewable Length	15ea, 15m
Image Compensation	SSDR, SSNRIII
Other	Motion detection, Privacy masking
Intelligent Video Analytics	Face detection
Alarm I/O	Input 1ea
Video Compression Format	H.264, MJPEG
Max. Resolution	640 x 480
Max. Framerate	Max. 30fps at all resolutions
Streaming Capability	Multiple streaming (Up to 10 profiles)
IP	IPv4, IPv6
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / 20% ~ 80% RH
Input Voltage / Current	12V DC / 480mA, PoE (IEEE802.3af)
Power Consumption	Max. 5.6W
Dimensions (WxHxD)	Ø77.0 x 216.0mm (Ø3.03" x 8.5") (Bracket angle 90°), 284.0mm (11.18") (Bracket angle 180°)
Weight	1Kg (2.2 lb)

SND-7080/7080F

3 Megapixel Full HD Network Dome Camera

iPOLiS

Key Features

- Max. 3M (2048 x 1536) resolution
- 16 : 9 Full HD (1080p) resolution support
- 3 ~ 8.5mm (2.8x) motorized varifocal lens
- H.264, MJPEG dual codec
- Multiple streaming
- Smart compression (ROI encoding)

	SND-7080(F)N/P
Imaging Device	1/2.8" 3M PS CMOS
Scanning System	Progressive
Min. Illumination	Color : 1Lux (F1.2, 50IRE), B/W : 0.08Lux (F1.2, 50IRE)
Focal Length (Zoom Ratio)	3 ~ 8.5mm (2.8x) Motorized varifocal
Max. Aperture Ratio	F1.2
Angular Field of View	H : 100°(Wide) ~ 35.3°(Tele), V : 74.6°(Wide) ~ 26°(Tele)
Pan/Tilt Range	0° ~ 355°, 0° ~ 90°
Day & Night	Auto (ICR) / Color / B/W / External B/W
Image Compensation	SSDR, SSNRIII, Full HD WDR
Other	Motion detection, Privacy masking
Intelligent Video Analytics	Scene change, Virtual line, Enter / Exit, Appear / Disappear
Alarm I/O	Input 1ea / Output 1ea (Relay)
Video Compression Format	H.264, MJPEG
Max. Resolution	3M mode - 2048 x 1536 2M mode - 1920 x 1080P (Full HD)
Max. Framerate	3M mode - Max. 20fps 2M mode - Max 30fps
Streaming Capability	Multiple streaming (Up to 6 profiles)
Audio I/O	Mic / Line in, Line out
IP	IPv4, IPv6
Memory Slot	SD/SDHC memory slot
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / 20% ~ 80% RH
Input Voltage / Current	12V DC, 24V AC, PoE (IEEE802.3af)
Power Consumption	Max. 6W (DC 12V), Max. 7W (24V AC, PoE (48V DC))
Dimensions (WxHxD)	SND-7080 : Ø133.0 x 129.4mm (Ø5.24" x 5.09") SND-7080F : Ø159.9 x 125.0mm (Ø6.3" x 4.92") (Flush mounting type)
Weight	SND-7080 : 700g (1.54 lb), SND-7080F : 800g (1.76 lb)

SND-3082/3082F

4CIF WDR Network Dome Camera

iPOLiS

Key Features

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

	SND-3082(F)N	SND-3082(F)P
Imaging Device	1/3" Super HAD PS CCD	
Scanning System	Progressive (If WDR on, Interlaced scan)	
Min. Illumination	Color : 0.4Lux (F1.2, 50IRE), B/W : 0.04Lux (F1.2, 50IRE)	
Focal Length (Zoom Ratio)	2.8 ~ 11mm (3.9x) varifocal	
Max. Aperture Ratio	F1.2	
Angular Field of View	H : 94.6°(Wide) ~ 28.8°(Tele), V : 68.4°(Wide) ~ 21.6°(Tele)	
Pan/Tilt Range	0° ~ 355°, 0° ~ 90°	
Day & Night	Auto (S/W) / Color / B/W / External	
Image Compensation	SSDR, SSNRIII, WDR	
Other	Motion detection, Privacy masking	
Intelligent Video Analytics	Tampering	
Alarm I/O	Input 1ea / Output 1ea (Relay)	
Video Compression Format	H.264, MPEG-4, MJPEG	
Max. Resolution	704 x 480	704 x 576
Max. Framerate	30fps	25fps
Streaming Capability	Multiple streaming (Up to 10 profiles)	
Audio I/O	Mic / Line in, Line out	
IP	IPv4, IPv6	
Memory Slot	SD/SDHC memory slot	
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / 20% ~ 80% RH	
Input Voltage / Current	12V DC, 24V AC, PoE (IEEE802.3af)	
Power Consumption	Max. 6W	
Dimensions (WxHxD)	SND-3082 : Ø133.0 x 129.4mm (Ø5.24" x 5.09") SND-3082F : Ø159.9 x 125.0mm (Ø6.3" x 4.92") (Flush mounting type)	
Weight	SND-3082 : 580g (1.27 lb), SND-3082F : 755g (1.66 lb)	

SND-5080/5080F

1.3 Megapixel HD Network Dome Camera

iPOLiS

Key Features

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

	SND-5080(F)N/P
Imaging Device	1/3" 1.3M PS CMOS
Scanning System	Progressive
Min. Illumination	Color : 0.3Lux (F1.2, 50IRE), B/W : 0.01Lux (F1.2, 50IRE)
Focal Length (Zoom Ratio)	2.8 ~ 10mm (3.6x) varifocal
Max. Aperture Ratio	F1.2
Angular Field of View	H : 94.6°(Wide) ~ 28.8°(Tele), V : 68.4°(Wide) ~ 21.6°(Tele)
Pan/Tilt Range	0° ~ 355°, 0° ~ 90°
Day & Night	Auto (ICR) / Color / B/W / External B/W
Image Compensation	SSDR, SSNRIII
Other	Motion detection, Privacy masking
Intelligent Video Analytics	Scene change, Virtual line, Enter / Exit, Appear / Disappear
Alarm I/O	Input 1ea / Output 1ea (Relay)
Video Compression Format	H.264, MPEG-4, MJPEG
Max. Resolution	1280 x 1024, 1280 x 720P (HD)
Max. Framerate	H.264, MJPEG : 30fps MPEG-4 : 25fps (1280 x 1024), 30fps (720P HD)
Streaming Capability	Multiple streaming (Up to 10 profiles)
Audio I/O	Mic / Line in, Line out
Audio Compression Format	G.711 u-law
IP	IPv4, IPv6
Memory Slot	SD/SDHC memory slot
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / 20% ~ 80% RH
Input Voltage / Current	12V DC, 24V AC, PoE (IEEE802.3af)
Power Consumption	Max. 7W
Dimensions (WxHxD)	SND-5080 : Ø133.0 x 129.4mm (Ø5.24" x 5.09") SND-5080F : Ø159.9 x 125.0mm (Ø6.3" x 4.92") (Flush mounting type)
Weight	SND-5080 : 550g (1.21 lb), SND-5080F : 650g (1.43 lb)

VGA Network Dome Camera

iPOLiS

Key Features

- Max. 30fps at VGA resolution
- 2.2 ~ 7.7mm (3.5x) varifocal lens
- H.264, MJPEG dual codec
- Multiple streaming
- PoE, SD memory

	SND-1080N/P
Imaging Device	1/4" PS CMOS
Scanning System	Progressive
Min. Illumination	0.7Lux (F1.2)
Focal Length (Zoom Ratio)	2.2 ~ 7.7mm (3.5x) varifocal
Max. Aperture Ratio	F1.2
Angular Field of View	H : 94°(Wide) ~ 26.5°(Tele), V : 70°(Wide) ~ 20°(Tele)
Pan/Tilt Range	0° ~ 352°, 17° ~ 90°
Day & Night	Auto (S/W) / Color / B/W / External
Image Compensation	SSDR, SSNRIII
Other	Motion detection, Privacy masking
Intelligent Video Analytics	Face detection
Alarm I/O	Input 1ea
Video Compression Format	H.264, MJPEG
Max. Resolution	640 x 480
Max. Framerate	Max. 30fps
Streaming Capability	Multiple streaming (Up to 10 profiles)
Audio I/O	Mic/Line in , Line out
Audio Compression Format	G.711 u-law
IP	IPv4, IPv6
Memory Slot	Micro SD/SDHC memory slot
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / 20% ~ 80% RH
Input Voltage / Current	12V DC / PoE (IEEE802.3af)
Power Consumption	Max.3.4W (12V DC), Max.4W (PoE)
Dimensions (WxHxD)	Ø115.8 x 92.7mm (Ø4.56" x 3.65")
Weight	380g (0.84lb)

SND-1011

VGA Network Dome Camera

iPOLiS



VGA

3mm

SSDR

E-D&N

PoE

Key Features

- Max. 30fps at VGA resolution
- Built-in 3mm fixed lens
- H.264, MJPEG dual codec
- Multiple streaming
- PoE, SD memory

	SND-1011N	SND-1011P
Imaging Device	1/4" PS CMOS	
Min. Illumination	0.7Lux (F1.2)	
Focal Length (Zoom Ratio)	3mm fixed	
Max. Aperture Ratio	F2.0	
Angular Field of View	H : 70°, V : 50°	
Pan/Tilt Range	0° ~ 352°, 17° ~ 90°	
Day & Night	Auto (S/W) / Color / B/W / External	
Image Compensation	SSDR, SSNRIII	
Other	Motion detection, Privacy masking	
Intelligent Video Analytics	Face detection	
Alarm I/O	Input 1ea	
Video Compression Format	H.264, MJPEG	
Max. Resolution	640 x 480	
Max. Framerate	Max. 30fps	
Streaming Capability	Multiple streaming (Up to 10 profiles)	
IP	IPv4, IPv6	
Memory Slot	Micro SD/SDHC memory slot	
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / 20% ~ 80% RH	
Input Voltage / Current	12V DC / PoE (IEEE802.3af)	
Power Consumption	Max. 3.4W (12V DC), Max. 4W (PoE)	
Dimensions (WxHxD)	Ø107.6 x 83.7mm (Ø4.24" x 3.3")	
Weight	280g (0.62 lb)	

SNV-7080

3 Megapixel Full HD Vandal-Resistant Network Dome Camera

iPOLiS



3M

2.8x Motorized V/F Lens

WDR 128x160x

D&N ICR

PoE

Key Features

- Max. 3M (2048 x 1536) resolution
- 16 : 9 Full HD (1080p) resolution support
- 3 ~ 8.5mm (2.8x) motorized varifocal lens
- H.264, MJPEG dual codec
- Multiple streaming
- Smart compression (ROI encoding)

	SNV-7080N/P
Imaging Device	1/2.8" 3M PS CMOS
Scanning System	Progressive
Min. Illumination	Color : 1Lux (F1.2, 50IRE), B/W : 0.08Lux (F1.2, 50IRE)
Focal Length (Zoom Ratio)	3 ~ 8.5mm (2.8x) Motorized varifocal
Max. Aperture Ratio	F1.2
Angular Field of View	H : 100°(Wide) ~ 35.3°(Tele), V : 74.6°(Wide) ~ 26°(Tele)
Pan/Tilt Range	0° ~ 355°, 0° ~ 90°
Day & Night	Auto (ICR) / Color / B/W / External B/W
Image Compensation	SSDR, SSNRIII, Full HD WDR
Other	Motion detection, Privacy masking
Intelligent Video Analytics	Scene change, Virtual line, Enter / Exit, Appear / Disappear
Alarm I/O	Input 1ea / Output 1ea (Relay)
Video Compression Format	H.264, MJPEG
Max. Resolution	3M mode - 2048 x 1536, 2M mode - 1920 x 1080P (Full HD)
Max. Framerate	3M mode - Max. 20fps, 2M mode - Max 30fps
Streaming Capability	Multiple streaming (Up to 6 profiles)
Audio I/O	Mic / Line in, Line out
Audio Compression Format	G.711 u-law
IP	IPv4, IPv6
Memory Slot	SD/SDHC memory slot
Operating Temperature / Humidity	24V AC : -40°C ~ +50°C (-40°F ~ +122°F) / Less than 90% RH 12V DC, PoE : -10°C ~ +50°C (+14°F ~ +122°F) / Less than 90% RH
Ingress Protection	12V DC, 24V AC, PoE (IEEE802.3af)
Input Voltage / Current	12V DC, 24V AC, PoE (IEEE802.3af)
Power Consumption	Max. 6W (12V DC), Max. 7W (24V AC, PoE (48V DC)) Max. 11W (24V AC - Heater on)
Dimensions (WxHxD)	Ø160.0 x 134.5mm (Ø6.3" x 5.3")
Weight	1.4Kg (3.09 lb)

SNV-5080

1.3 Megapixel HD Vandal-Resistant Network Dome Camera

iPOLiS



1.3M

3.6x V/F Lens

SSDR

D&N ICR

PoE

Key Features

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

	SNV-5080N/P
Imaging Device	1/3" 1.3M PS CMOS
Scanning System	Progressive
Min. Illumination	Color : 0.3Lux (F1.2, 50IRE), B/W : 0.01Lux (F1.2, 50IRE)
Focal Length (Zoom Ratio)	2.8 ~ 10mm (3.6x) varifocal
Max. Aperture Ratio	F1.2
Angular Field of View	H : 94.6°(Wide) ~ 28.8°(Tele), V : 68.4°(Wide) ~ 21.6°(Tele)
Pan/Tilt Range	0° ~ 355°, 0° ~ 90°
Day & Night	Auto (ICR) / Color / B/W / External B/W
Image Compensation	SSDR, SSNRIII
Other	Motion detection, Privacy masking
Intelligent Video Analytics	Scene change, Virtual line, Enter / Exit, Appear / Disappear
Alarm I/O	Input 1ea / Output 1ea (Relay)
Video Compression Format	H.264, MPEG-4, MJPEG
Max. Resolution	1280 x 1024, 1280 x 720P (HD)
Max. Framerate	30fps
Streaming Capability	Multiple streaming (Up to 10 profiles)
Audio I/O	Mic / Line in, Line out
Audio Compression Format	G.711 u-law
IP	IPv4, IPv6
Memory Slot	SD/SDHC memory slot
Operating Temperature / Humidity	24V AC : -40°C ~ +50°C (-40°F ~ +122°F) / Less than 90% RH 12V DC, PoE : -10°C ~ +50°C (+14°F ~ +122°F) / Less than 90% RH
Ingress Protection	IP66 Grade (Waterproof)
Input Voltage / Current	12V DC, 24V AC, PoE (IEEE802.3af)
Power Consumption	Max. 8W (Heater off), Max. 11W (Heater on)
Dimensions (WxHxD)	Ø160.0 x 134.5mm (Ø6.3" x 5.3")
Weight	1.3Kg (2.87 lb)

SNV-5010

1.3 Megapixel HD Vandal-Resistant Network Flat Camera

iPOLiS



1.3M

3mm

SSDR

PoE

Key Features

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

	SNV-5010N/P
Imaging Device	1/3" 1.3M PS CMOS
Scanning System	Progressive
Min. Illumination	Color : 1Lux (F1.8, 50IRE), 0.016Lux (Sens-up 60x)
Focal Length (Zoom Ratio)	3mm
Max. Aperture Ratio	F1.8
Angular Field of View	H : 91.2°, V : 72.3°
Image Compensation	SSDR, SSNRIII
Other	Motion detection, Privacy masking
Intelligent Video Analytics	Scene change, Virtual line, Enter / Exit, Appear / Disappear
Video Compression Format	H.264, MPEG-4, MJPEG
Max. Resolution	1280 x 1024, 1280 x 720P (HD)
Max. Framerate	30fps
Streaming Capability	Multiple streaming (Up to 10 profiles)
IP	IPv4, IPv6
Operating Temperature / Humidity	-10°C ~ +50°C (-14°F ~ +122°F) / Less than 90% RH
Ingress Protection	IP66 Grade (Waterproof)
Input Voltage / Current	12V DC, PoE (IEEE802.3af)
Power Consumption	Max. 6W
Dimensions (WxHxD)	125.2 x 52.0 x 115.2mm (4.93" x 2.05" x 4.54")
Weight	435g (0.96 lb)

SNV-3082

4CIF WDR Vandal-Resistant Network Dome Camera

iPOLiS



Key Features

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

	SNV-3082N	SNV-3082P
Imaging Device	1/3" Super HAD PS CCD	
Scanning System	Progressive (If WDR on, Interlaced scan)	
Min. Illumination	Color : 0.4Lux (F1.2, 50IRE), B/W : 0.04Lux (F1.2, 50IRE)	
Focal Length (Zoom Ratio)	2.8 ~ 11mm (3.9x) varifocal	
Max. Aperture Ratio	F1.2	
Angular Field of View	H : 94.6°(Wide) ~ 28.8°(Tele), V : 68.4°(Wide) ~ 21.6°(Tele)	
Pan/Tilt Range	0° ~ 355°, 0° ~ 90°	
Day & Night	Auto (ICR) / Color / B/W / External B/W	
Image Compensation	SSDR, SSNRIII, WDR	
Other	Motion detection, Privacy masking	
Intelligent Video Analytics	Tampering	
Alarm I/O	Input 1ea / Output 1ea (Relay)	
Video Compression Format	H.264, MPEG-4, MJPEG	
Max. Resolution	704 x 480	704 x 576
Max. Framerate	30fps	25fps
Streaming Capability	Multiple streaming (Up to 10 profiles)	
Audio I/O	Mic/Line in , Line out	
Audio Compression Format	G.711 u-law	
IP	IPv4, IPv6	
Memory Slot	SD/SDHC memory slot	
Operating Temperature / Humidity	-40°C ~ +50°C (-40°F ~ +122°F) / Less than 90% RH	
Input Voltage / Current	12V DC, 24V AC, PoE (IEEE802.3af)	
Power Consumption	Max. 8W (Heater off), Max. 11W (Heater on)	
Dimensions (WxHxD)	Ø160.0 x 134.5mm (Ø6.3" x 5.3")	
Weight	1.39Kg (3.06 lb)	

SNV-1080

VGA Vandal-Resistant Network Dome Camera

iPOLiS



Key Features

- Max. 30fps at VGA resolution
- 2.2 ~ 7.7mm (3.5x) varifocal lens
- H.264, MJPEG dual codec
- Multiple streaming
- PoE, SD memory, IP66

	SNV-1080N/P
Imaging Device	1/4" PS CMOS
Scanning System	Progressive
Min. Illumination	Color : 0.7Lux
Focal Length (Zoom Ratio)	2.2 ~ 7.7mm (3.5x) varifocal
Max. Aperture Ratio	F1.2
Angular Field of View	H : 94°(Wide) ~ 26.5°(Tele), V : 70°(Wide) ~ 20°(Tele)
Pan/Tilt Range	0° ~ 355°, 17° ~ 90°
Day & Night	Auto (S/W) / Color / B/W / External B/W
Image Compensation	SSDR, SSNRIII
Other	Motion detection, Privacy masking
Intelligent Video Analytics	Face detection
Alarm I/O	Input 1ea
Video Compression Format	H.264, MJPEG
Max. Resolution	640 x 480
Max. Framerate	30fps
Streaming Capability	Multiple streaming (Up to 10 profiles)
Audio I/O	Mic/Line in , Line out
Audio Compression Format	G.711 u-law
IP	IPv4, IPv6
Memory Slot	Micro SD/SDHC memory slot
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / 20% ~ 80% RH
Ingress Protection	IP66 Grade (Waterproof)
Input Voltage / Current	12V DC / PoE (IEEE802.3af)
Power Consumption	Max. 3.4W (12V DC), Max. 4W (PoE)
Dimensions (WxHxD)	Ø137.0 x 106mm (Ø5.39" x 4.17")
Weight	770g (1.7lb)

SNV-7080R

3 Megapixel Full HD Vandal-Resistant Network IR Dome Camera

iPOLiS



Key Features

- Max. 3M (2048 x 1536) resolution
- 16 : 9 Full HD (1080p) resolution support
- 3 ~ 8.5mm (2.8x) motorized varifocal lens
- H.264, MJPEG dual codec
- Multiple streaming
- Smart compression (ROI encoding)

	SNV-7080RN/P
Imaging Device	1/2.8" 3M PS CMOS
Scanning System	Progressive
Min. Illumination	Color : 1Lux (F1.2, 50IRE), B/W : 0Lux (F1.2, 50IRE, IR LED on)
Focal Length (Zoom Ratio)	3 ~ 8.5mm (2.8x) Motorized varifocal
Max. Aperture Ratio	F1.2
Angular Field of View	H : 100°(Wide) ~ 35.3°(Tele), V : 74.6°(Wide) ~ 26°(Tele)
Pan/Tilt Range	0° ~ 355°, 0° ~ 90°
IR LED/ Viewable Length	15ea, 25m
Image Compensation	SSDR, SSNRIII, Full HD WDR
Other	Motion detection, Privacy masking
Intelligent Video Analytics	Scene change, Virtual line, Enter / Exit, Appear / Disappear
Alarm I/O	Input 1ea / Output 1ea (Relay)
Video Compression Format	H.264, MJPEG
Max. Resolution	3M mode - 2048 x 1536, 2M mode - 1920 x 1080P (Full HD)
Max. Framerate	3M mode - 20fps, 2M mode - H.264 : Max 30fps
Streaming Capability	Multiple streaming (Up to 6 profiles)
Audio I/O	Mic / Line in, Line out
Audio Compression Format	G.711 u-law
IP	IPv4, IPv6
Memory Slot	SD/SDHC memory slot
Operating Temperature / Humidity	24V AC : -40°C ~ +50°C (-40°F ~ +122°F) / Less than 90% RH 12V DC, PoE : -10°C ~ +50°C (+14°F ~ +122°F) / Less than 90% RH
Ingress Protection	IP66 Grade (Waterproof)
Input Voltage / Current	12V DC, 24V AC, PoE (IEEE802.3af)
Power Consumption	Max. 6W (12V DC), Max. 7W (24V AC, PoE (48V DC)) Max. 11W (24V AC - Heater on)
Dimensions (WxHxD)	Ø160.0 x 134.5mm (Ø6.3" x 5.3")
Weight	1.4Kg (3.09 lb)

SNV-5080R

1.3 Megapixel HD Vandal-Resistant Network IR Dome Camera

iPOLiS



Key Features

- Max. 1.3M (1280 x 1024) resolution
- 16 : 9 HD (720p) resolution support
- 3 ~ 8.5mm (2.8x) motorized varifocal lens
- H.264, MPEG-4, MJPEG multiple codec
- Multiple streaming
- PoE, SD memory, IP66, IR LED (15ea)

	SNV-5080RN/P
Imaging Device	1/3" 1.3M PS CMOS
Scanning System	Progressive
Min. Illumination	Color : 0.3Lux (F1.2, 50IRE), B/W : 0Lux (F1.2, 50IRE, IR LED on)
Focal Length (Zoom Ratio)	3 ~ 8.5mm (2.8x) Motorized varifocal
Max. Aperture Ratio	F1.2
Angular Field of View	H : 91°(Wide) ~ 32.1°(Tele), V : 72.2°(Wide) ~ 25.7°(Tele)
Pan/Tilt Range	0° ~ 355°, 0° ~ 90°
IR LED/ Viewable Length	15ea, 15m
Day & Night	Auto (ICR) / Color / B/W
Image Compensation	SSDR, SSNRIII
Other	Motion detection, Privacy masking
Intelligent Video Analytics	Scene change, Virtual line, Enter / Exit, Appear / Disappear
Alarm I/O	Input 1ea / Output 1ea (Relay)
Video Compression Format	H.264, MPEG-4, MJPEG
Max. Resolution	1280 x 1024, 1280 x 720P (HD)
Max. Framerate	22fps (1280 x 1024), 30fps (720P HD)
Streaming Capability	Multiple streaming (Up to 10 profiles)
Audio I/O	Mic / Line in, Line out
Audio Compression Format	G.711 u-law
IP	IPv4, IPv6
Memory Slot	SD/SDHC memory slot
Operating Temperature / Humidity	24V AC : -40°C ~ +50°C (-40°F ~ +122°F) / Less than 90% RH 12V DC, PoE : -10°C ~ +50°C (+14°F ~ +122°F) / Less than 90% RH
Ingress Protection	IP66 Grade (Waterproof)
Input Voltage / Current	12V DC, 24V AC, PoE (IEEE802.3af)
Power Consumption	Max. 9W or 650mA (Heater off), Max. 13W or 800mA (Heater on)
Dimensions (WxHxD)	Ø160.0 x 134.5mm (Ø6.3" x 5.3")
Weight	1.4Kg (3.09 lb)

SNV-1080R

VGA Vandal-Resistant Network IR Dome Camera

iPOLiS



Key Features

- Max. 30fps at VGA resolution
- 2.3 ~ 7.7mm (3.5x) varifocal lens
- H.264, MJPEG dual codec
- Multiple streaming
- IR LED (15ea), PoE

	SNV-1080R N/P
Imaging Device	1/4" PS CMOS
Scanning System	Progressive
Min. Illumination	Color : 0.7Lux (F1.2), B/W : 0Lux (IR LED on)
Focal Length (Zoom Ratio)	2.3 ~ 7.7mm (3.5x) varifocal
Max. Aperture Ratio	F1.2
Angular Field of View	H : 94°(Wide) ~ 26.5°(Tele), V : 70°(Wide) ~ 20°(Tele)
Pan/Tilt Range	0° ~ 352° / 17° ~ 90°
Day & Night	Auto (ICR) / Color / B/W / External
IR LED/Viewable Length	12ea, 15m
Image Compensation	SSDR, SSNRIII
Other	Motion detection, Privacy masking
Intelligent Video Analytics	Face detection
Alarm I/O	Input 1ea
Video Compression Format	H.264, MJPEG
Max. Resolution	640 x 480
Max. Framerate	Max. 30fps at all resolutions
Streaming Capability	Multiple streaming (Up to 10 profiles)
Audio I/O	Mic/Line in , Line out
Audio Compression Format	G.711 u-law
IP	IPv4, IPv6
Memory Slot	SD/SDHC memory slot
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / 20% ~ 80% RH
Ingress Protection	IP66 Grade (Waterproof)
Input Voltage / Current	12V DC / PoE (IEEE802.3af)
Power Consumption	Max. 5.9W (12V DC), Max. 6.2W (PoE)
Dimensions (WxHxD)	Ø137.0 x 106 mm (Ø5.39" x 4.17")
Weight	786g (1.73lb)

SNP-5200/5200H

1.3 Megapixel HD 20x Network PTZ Dome Camera

iPOLiS



SNP-5200

SNP-5200H



Key Features

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

	SNP-5200N/P	SNP-5200HN/HP
Imaging Device	1/3" 1.3M PS CMOS	
Scanning System	Progressive	
Min. Illumination	Color : 0.7Lux (F1.6, 50IRE), B/W : 0.08Lux (F1.6, 50IRE)	
Focal Length (Zoom Ratio)	4.45 ~ 89mm (20x)	
Max. Aperture Ratio	F1.6(Wide) / F2.9(Tele)	
Angular Field of View	H : 56.56°(Wide) ~ 3.10°(Tele) / V : 43.32°(Wide) ~ 2.34°(Tele)	
Pan/Tilt Range	360° Endless / 190°(-5° ~ 185°)	
Pan/Tilt Speed	Preset : 500°/sec, Manual : 0.024°/sec ~ 120°/sec	
Preset / Preset Accuracy	255ea, ±0.1°	
Day & Night	Auto (ICR) / Color / B/W	
Image Compensation	SSDR, SSNRIII	
Other	Motion detection, Privacy masking	
Alarm I/O	Input 4ea / Output 2ea (Relay)	
Remote Control Interface	RS-485/422	
Video Compression Format	H.264, MPEG-4, MJPEG	
Max. Resolution	1280 x 1024, 1280 x 720P (HD)	
Max. Framerate	30fps	
Streaming Capability	Multiple streaming (Up to 10 profiles)	
Audio I/O	Mic/Line in , Line out	
Audio Compression Format	G.711 u-law	
IP	IPv4, IPv6	
Memory Slot	SD/SDHC memory slot	
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / 20% ~ 80% RH	-50°C ~ +50°C (-58°F ~ +122°F) / Less than 90% RH
Ingress Protection	N/A	IP66 Grade (Waterproof)
Input Voltage / Current	24V AC, PoE+ (IEEE802.3at)	
Power Consumption	Max. 21W	Max. 25W (Heater off), Max. 52W (Heater on) * Heater works at AC input only.
Dimensions (WxHxD)	Ø155.0 x 243.4mm (Ø6.1" x 9.58")	Ø248.0 x 316.5mm (9.76" x 12.46")
Weight	2.1Kg (4.63lb)	4.6Kg (10.14lb)

SNP-3371

4CIF 37x Network PTZ Dome Camera

iPOLiS



Key Features

- Max. 30(25)fps at 4CIF resolution
- 3.5 ~ 129.5mm (37x) optical zoom, 16x digital zoom
- H.264, MPEG-4, MJPEG multiple codec
- Multiple streaming
- SD memory, bi-directional audio support

	SNP-3371N/P
Imaging Device	1/4" Vertical double density interline transfer CCD
Scanning System	Progressive (VPS on) (If WDR on, Interlaced scan)
Min. Illumination	Color : 0.7Lux (F1.6, 50IRE), B/W : 0.07Lux (F1.6, 50IRE)
Focal Length (Zoom Ratio)	3.5 ~ 129.5mm (37x)
Max. Aperture Ratio	F1.6(Wide) / F3.9(Tele)
Angular Field of View	H : 55.5°(Wide) ~ 1.59°(Tele) / V : 42.5°(Wide) ~ 1.19°(Tele)
Pan/Tilt Range	360° Endless / 190°(-5° ~ 185°)
Pan/Tilt Speed	Preset : 500°/sec, Manual : 0.024°/sec ~ 120°/sec
Preset / Preset Accuracy	255ea, ±0.1°
Day & Night	Auto (ICR) / Color / B/W
Image Compensation	SSDR, SSNRIII, WDR
Other	Motion detection, Privacy masking
Intelligent Video Analytics	Virtual Line, Enter / Exit, Appear / Disappear
Alarm I/O	Input 4ea / Output 2ea
Remote Control Interface	RS-485/422
Video Compression Format	Input 4ea / Output 2ea
Resolution	704 x 480
Max. Framerate	30fps
Streaming Capability	Multiple streaming (Up to 10 profiles)
Audio I/O	Mic/Line in , Line out, G.711 u-law
IP	IPv4, IPv6
Memory Slot	SD/SDHC memory slot
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / 20% ~ 80% RH
Input Voltage / Current	24V AC, PoE+ (IEEE 802.3at)
Power Consumption	Max. 21W
Dimensions (WxHxD)	Ø155.0 x 243.4mm (Ø6.1" x 9.58")
Weight	2.2Kg (4.85 lb)

SNP-3371TH/3371H

4CIF 37x Network PTZ Dome Camera

iPOLiS



Key Features

- Max. 30(25)fps at 4CIF resolution
- 3.5 ~ 129.5mm (37x) optical zoom, 16x digital zoom
- H.264, MPEG-4, MJPEG multiple codec
- Multiple streaming
- SD memory, IP66, bi-directional audio support
- Auto tracking (SNP-3371TH)

	SNP-3371(T)HN/P
Imaging Device	1/4" Vertical double density interline transfer CCD
Scanning System	Progressive (VPS on) (If WDR on, Interlaced scan)
Min. Illumination	Color : 0.7Lux (F1.6, 50IRE), B/W : 0.07Lux (F1.6, 50IRE)
Focal Length (Zoom Ratio)	3.5 ~ 129.5mm (37x)
Max. Aperture Ratio	F1.6(Wide) / F3.9(Tele)
Angular Field of View	H : 55.5°(Wide) ~ 1.59°(Tele) / V : 42.5°(Wide) ~ 1.19°(Tele)
Pan/Tilt Range	360° Endless / 190°(-5° ~ 185°)
Pan/Tilt Speed	Preset : 500°/sec, Manual : 0.024°/sec ~ 120°/sec
Preset / Preset Accuracy	255ea, ±0.1°
Day & Night	Auto (ICR) / Color / B/W
Image Compensation	SSDR, SSNRIII, WDR
Other	Motion detection, Privacy masking
Intelligent Video Analytics	Virtual Line, Enter / Exit, Appear / Disappear
Alarm I/O	Input 4ea / Output 2ea
Remote Control Interface	RS-485/422
Video Compression Format	H.264, MPEG-4, MJPEG
Resolution	704 x 480
Max. Framerate	30fps
Streaming Capability	Multiple streaming (Up to 10 profiles)
Audio I/O	Mic/Line in , Line out
Audio Compression Format	G.711 u-law
IP	IPv4, IPv6
Memory Slot	SD/SDHC memory slot
Operating Temperature / Humidity	-50°C ~ +50°C (-58°F ~ +122°F) / Less than 90% RH
Ingress Protection	IP66 Grade
Input Voltage / Current	24V AC, PoE+ (IEEE 802.3at)
Power Consumption	Max. 25W (Heater off), Max. 60W (Heater on) * Heater works at AC input only
Dimensions (WxHxD)	Ø248.0 x 316.5mm (Ø9.76" x 12.46")
Weight	4.6Kg (10.14 lb)

SNP-3302H

4CIF 30x Network PTZ Dome Camera

iPOLiS



Key Features

- Max. 30(25)fps at 4CIF resolution
- 3.5 ~ 105.3mm (30x) optical zoom, 16x digital zoom
- H.264, MPEG-4, MJPEG multiple codec
- Multiple streaming
- SD memory, IP66

	SNP-3302HN	SNP-3302HP
Imaging Device	1/4" Vertical double density interline transfer CCD	
Scanning System	Progressive (VPS on) (If WDR on, Interlaced scan)	
Min. Illumination	Color : 0.7Lux (F1.6, 50IRE), B/W : 0.07Lux (F1.6, 50IRE)	
Focal Length (Zoom Ratio)	3.5 ~ 105.3mm (30x)	
Max. Aperture Ratio	F1.6(Wide) / F3.6(Tele)	
Angular Field of View	H : 55.5°(Wide) ~ 1.92°(Tele) / V : 42.5°(Wide) ~ 1.43°(Tele)	
Pan/Tilt Range	360° Endless / 190°(-5° ~ 185°)	
Pan Speed	Preset : 500°/sec, Manual : 0.024°/sec ~ 120°/sec	
Preset / Preset Accuracy	255ea, ±0.1°	
Day & Night	Auto (ICR) / Color / B/W	
Image Compensation	SSDR, SSNRIII, WDR	
Other	Motion detection, Privacy masking	
Intelligent Video Analytics	Virtual Line, Enter / Exit, Appear / Disappear	
Alarm I/O	Input 4ea / Output 2ea	
Remote Control Interface	RS-485/422	
Video Compression Format	H.264, MPEG-4, MJPEG	
Max. Resolution	704 x 480	
Max. Framerate	30fps	
Streaming Capability	Multiple streaming (Up to 10 profiles)	
Audio I/O	Mic/Line in , Line out	
Audio Compression Format	G.711 u-law	
IP	IPv4, IPv6	
Memory Slot	SD/SDHC memory slot	
Operating Temperature / Humidity	-50°C ~ +50°C (-58°F ~ +122°F) / Less than 90% RH	
Input Voltage / Current	24V AC, PoE+ (IEEE 802.3at)	
Power Consumption	Max. 25W (Heater off), Max. 60W (Heater on), * Heater works at AC input only	
Dimensions (WxHxD)	Ø248.0 x 316.5mm (9.76" x 12.46")	
Weight	4.6Kg (10.14 lb)	

SNP-3302

4CIF 30x Network PTZ Dome Camera

iPOLiS



Key Features

- Max. 30(25)fps at 4CIF resolution
- 3.5 ~ 105.3mm (30x) optical zoom, 16x digital zoom
- H.264, MPEG-4, MJPEG multiple codec
- Multiple streaming
- SD memory

	SNP-3302N	SNP-3302P
Imaging Device	1/4" Vertical double density interline transfer CCD	
Scanning System	Progressive (VPS on) (If WDR on, Interlaced scan)	
Min. Illumination	Color : 0.7Lux (F1.6, 50IRE), B/W : 0.07Lux (F1.6, 50IRE)	
Focal Length (Zoom Ratio)	3.5 ~ 105.3mm (30x)	
Max. Aperture Ratio	F1.6(Wide) / F3.6(Tele)	
Angular Field of View	H : 55.5°(Wide) ~ 1.92°(Tele) / V : 42.5°(Wide) ~ 1.43°(Tele)	
Pan/Tilt Range	360° Endless / 190°(-5° ~ 185°)	
Pan Speed	Preset : 500°/sec, Manual : 0.024°/sec ~ 120°/sec	
Preset / Preset Accuracy	255ea, ±0.1°	
Day & Night	Auto (ICR) / Color / B/W	
Image Compensation	SSDR, SSNRIII, WDR	
Other	Motion detection, Privacy masking	
Intelligent Video Analytics	Virtual Line, Enter / Exit, Appear / Disappear	
Alarm I/O	Input 4ea / Output 2ea	
Remote Control Interface	RS-485/422	
Video Compression Format	H.264, MPEG-4, MJPEG	
Max. Resolution	704 x 480	
Max. Framerate	30fps	
Streaming Capability	Multiple streaming (Up to 10 profiles)	
Audio I/O	Mic/Line in , Line out	
Audio Compression Format	G.711 u-law	
IP	IPv4, IPv6	
Memory Slot	SD/SDHC memory slot	
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / 20% ~ 80% RH	
Input Voltage / Current	24V AC, PoE+ (IEEE 802.3at)	
Power Consumption	Max. 21W	
Dimensions (WxHxD)	Ø155.0 x 243.4mm (Ø6.1" x 9.58")	
Weight	2.2Kg (4.85 lb)	

SNP-3120

4CIF 12x Network PTZ Dome Camera

iPOLiS



Key Features

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

	SNP-3120N/P
Imaging Device	1/4" Ex-view HAD PS CCD
Scanning System	Progressive (VPS on) (If WDR on, Interlaced scan)
Min. Illumination	Color : 0.7Lux (F1.65, 50IRE), B/W : 0.07Lux (F1.65, 50IRE)
Focal Length (Zoom Ratio)	3.69 ~ 44.32mm (12x)
Max. Aperture Ratio	F1.65(Wide) / F2.01(Tele)
Angular Field of View	H : 54.44°(Wide) ~ 4.62°(Tele), V : 42.32°(Wide) ~ 3.58°(Tele)
Pan/Tilt Range	360° Endless / 190°(-5° ~ 185°)
Pan/Tilt Speed	Preset : 650°/sec, Manual : 0.05°/sec ~ 120°/sec (Turbo : 200°/sec)
Preset / Preset Accuracy	255ea, ±0.1°
Day & Night	Auto (ICR) / Color / B/W
Image Compensation	SSDR, SSNRIII, WDR
Other	Motion detection, Privacy masking
Intelligent Video Analytics	Moved / Fixed
Alarm I/O	Input 2ea / Output 2ea (Relay)
Remote Control Interface	RS-485
Video Compression Format	H.264, MPEG-4, MJPEG
Max. Resolution	704 x 480
Max. Framerate	30fps
Streaming Capability	Multiple streaming (Up to 10 profiles)
Audio I/O	Mic / Line in, Line out
Audio Compression Format	G.711 u-law
IP	IPv4, IPv6
Memory Slot	SD/SDHC memory slot
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / Less than 90% RH
Input Voltage / Current	24V AC, PoE+ (IEEE802.3at)
Power Consumption	Max. 15W
Dimensions (WxHxD)	Ø174.0 x 168.0mm (Ø6.85" x 6.61")
Weight	1.2Kg (2.65 lb)

SNP-3120VH

4CIF 37x Network PTZ Dome Camera

iPOLiS



Key Features

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

	SNP-3120VN/P
Imaging Device	1/4" Ex-view HAD PS CCD
Scanning System	Progressive (VPS on) (If WDR on, Interlaced scan)
Min. Illumination	Color : 0.7Lux (F1.6, 50IRE), B/W : 0.07Lux (F1.6, 50IRE)
Focal Length (Zoom Ratio)	3.69 ~ 44.32mm (12x)
Max. Aperture Ratio	F1.65(Wide) / F2.01(Tele)
Angular Field of View	H : 54.44°(Wide) ~ 4.62°(Tele), V : 42.32°(Wide) ~ 3.58°(Tele)
Pan/Tilt Range	360° Endless / 190°(-5° ~ 185°)
Pan/Tilt Speed	Preset : 650°/sec, Manual : 0.05°/sec ~ 120°/sec (Turbo : 200°/sec)
Preset / Preset Accuracy	255ea, ±0.1°
Day & Night	Auto (ICR) / Color / B/W
Image Compensation	SSDR, SSNRIII, WDR
Other	Motion detection, Privacy masking
Intelligent Video Analytics	Moved / Fixed
Alarm I/O	Input 2ea / Output 2ea (Relay)
Remote Control Interface	RS-485
Video Compression Format	H.264, MPEG-4, MJPEG
Max. Resolution	704 x 480
Max. Framerate	30fps
Streaming Capability	Multiple streaming (Up to 10 profiles)
Audio I/O	Mic / Line in, Line out
Audio Compression Format	G.711 u-law
IP	IPv4, IPv6
Memory Slot	SD/SDHC memory slot
Operating Temperature / Humidity	-50°C ~ +50°C (-58°F ~ +122°F) / Less than 90% RH
Ingress Protection	IP66 Grade
Input Voltage / Current	24V AC, PoE+ (IEEE802.3at)
Power Consumption	Max. 15W (Heater off), Max. 45W (Heater on) * Heater works at AC power input only
Dimensions (WxHxD)	Ø200.0 x 203.0mm (Ø7.87" x 7.99")
Weight	2.4Kg (5.29 lb)



SRN-1670D

16CH Network Video Recorder



16CH

H.264

CMS

HDMI 1080p

Key Features

- Full HD resolution support
- H.264, MPEG-4, MJPEG multiple codec
- 64Mbps recording bit rate
- Local monitor output : HDMI & VGA
- Built-in 1TB HDD
- DVD writer support

SRN-1670D	
Video Input	16CH
Video Output	1 VGA / 1 HDMI
Compression	H.264, MPEG-4, MJPEG
Multi Screen Display	1, 4, 6, 8, 9, 13, 16, Sequence
Recording Bit Rate	64Mbps
Recording Resolution	4CIF (704 x 480) / 1.3M (1280 x 1024) / 2M (1920 x 1080) / 3M (2048 x 1536)
Mode	Manual, Schedule (Continuous / Event), Event (Pre / Post)
Search & Playback Speed	4CH
Resolution	4CIF (704 x 480) / 1.3M (1280 x 1024) / 2M (1920 x 1080) / 3M (2048 x 1536)
Internal HDD	Up to 5 SATA HDDs
Storage External (e-SATA Interface)	Up to 2 expansion bay (compatible with SVS-5R)
USB (Back up)	3 USB ports
Alarm Input/Output	16/4
Audio	16CH (network)
Application Support	Mouse, Remote controller
Operating Temperature/Humidity	+0°C ~ +40°C (+32°F ~ +104°F) / 20% ~ 85% RH
Input Voltage/Current	100 to 240 VAC ±10%, 50/60 Hz
Power consumption	Max. 56 W (with 1x HDD)
Dimension (W x H x D)	440 x 88 x 430 mm (17.32" x 3.46" x16.93")
Weight	Approx. 7.1 kg (15.65 lb)

SRN-470D

4CH Network Video Recorder



4CH

H.264

CMS

HDMI 1080p

Key Features

- Full HD resolution support
- H.264, MPEG-4, MJPEG multiple codec
- 64Mbps recording bit rate
- Local monitor output : HDMI & VGA
- Built-in 1TB HDD
- DVD writer support

SRN-470D	
Video Input	4CH
Video Output	1 VGA / 1 HDMI
Compression	H.264, MPEG-4, MJPEG
Multi Screen Display	1, 4, Sequence
Recording Bit Rate	64Mbps
Recording Resolution	4CIF (704 x 480) / 1.3M (1280 x 1024) / 2M (1920 x 1080) / 3M (2048 x 1536)
Mode	Manual, Schedule (Continuous / Event), Event (Pre / Post)
Search & Playback Speed	4CH
Resolution	4CIF (704 x 480) / 1.3M (1280 x 1024) / 2M (1920 x 1080) / 3M (2048 x 1536)
Internal HDD	Up to 1 SATA HDD
Storage External (e-SATA Interface)	Up to 2 expansion bay (compatible with SVS-5R)
USB (Back up)	2 USB ports
Alarm Input/Output	4/2
Audio	4CH (network)
Application Support	Mouse, Remote controller
Operating Temperature/Humidity	+0°C ~ +40°C (+32°F ~ +104°F) / 20% ~ 85% RH
Input Voltage/Current	12V DC Adaptor, 4A , 100~250VAC, 50~60Hz
Power consumption	Max.36 W (with 1x HDD)
Dimension (W x H x D)	215 x 88 x 352 mm (8.46" x 3.46" x13.86")
Weight	Approx. 3.7 kg (8.16lb)

SPE-400

4CH Network Video Encoder



4CH

H.264

4CIF

Bi-directional Audio

Key Features

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

	SPE-400N	SPE-400P
Video In	4 CVBS : 1.0 Vp-p / 75Ω composite, NTSC/PAL auto detection	
De-interlacing Filter	Built-in	
Event Trigger	Motion detection, Alarm input, Video loss	
Alarm I/O	Input 4ea / Output 4ea (Relay)	
Remote Control Interface	4ea RS-485 (Half duplex)	
RS-485 Protocol	Samsung-T/E, Pelco-P/D, Panasonic, Vicon, Honeywell, AD, GE, Bosch, Sungjin	
Ethernet	RJ-45 (10/100/1000BASE-T)	
Video Compression Format	H.264, MPEG-4, MJPEG	
Resolution	704 x 480, 640 x 480, 352 x 240, 320 x 240	704 x 576, 640 x 480, 352 x 288, 320 x 240
Max. Framerate	30fps per channel	25fps per channel
Audio I/O	1ea line in / 1ea line out (CH1 only)	
Audio Communication	Bi-directional audio	
Max. User Access	10 users at unicast mode	
Memory Slot	SD/SDHC (CH1 only)	
Input Voltage / Current	12V DC	
Power Consumption	Max. 15W	
Dimensions (WxHxD)	128.0 x 34.0 x 178.0mm (5.04" x 1.34" x 7")	
Weight	562g (1.29 lb)	

SPE-101

1CH Network Video Encoder



1CH

H.264

4CIF

PoE

Key Features

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

	SPE-101N	SPE-101P
Video In	CVBS : 1.0 Vp-p / 75Ω composite, NTSC/PAL auto detection	
De-interlacing Filter	Built-in	
Event Trigger	Motion detection, Video loss	
Remote Control Interface	RS-422/485	
RS-485 Protocol	Samsung-T/E, Pelco-P/D, Panasonic, Honeywell, AD, Vicon, GE, Bosch, Sungjin	
Ethernet	RJ-45 (10/100BASE-T)	
Video Compression Format	H.264, MPEG-4, MJPEG	
Resolution	704 x 480, 640 x 480, 352 x 240, 320 x 240	704 x 576, 640 x 480, 352 x 288, 320 x 240
Max. Framerate	30fps	25fps
Max. User Access	10 users at unicast mode	
Input Voltage / Current	12V DC, PoE (IEEE802.3af)	
Power Consumption	Max. 3.2W	
Dimensions (WxHxD)	43.0 x 29.0 x 95.5mm (1.69" x 1.41" x 3.76"), Connector included	
Weight	115g (0.25 lb)	

SPE-100

1CH Network Video Encoder

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1CH

H.264

4CIF

Bi-directional
Audio

PoE

Key Features

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

	SPE-100N	SPE-100P
Video In	CVBS : 1.0 Vp-p / 75Ω composite, NTSC/PAL auto detection	
De-interlacing Filter	Built-in	
Event Trigger	Motion detection, Alarm input, Video loss	
Alarm I/O	Input 1 ea / Output 1 ea (Relay)	
Remote Control Interface	1 ea RS-485 (Half duplex)	
RS-485 Protocol	Samsung-T/E, Pelco-P/D	
Ethernet	RJ-45 (10/100BASE-T)	
Video Compression Format	H.264, MPEG-4, MJPEG	
Resolution	704 x 480, 640 x 480, 352 x 240, 320 x 240	704 x 576, 640 x 480, 352 x 288, 320 x 240
Max. Framerate	30fps	25fps
Audio I/O	1 ea line in / 1 ea line out	
Audio Communication	Bi-directional audio	
Max. User Access	10 users at unicast mode	
Memory Slot	SD/SDHC memory slot	
Input Voltage / Current	12V DC, PoE (IEEE802.3af)	
Power Consumption	Max. 4W	
Dimensions (WxHxD)	128.0 x 43.8 x 87.14mm (5.04" x 1.72" x 3.43")	
Weight	391g (0.86 lb)	

NET-i viewer

CMS (Central Management Software)

iPOLiS

Live



Search



Map

Key Features

- Centralized management software for Samsung network devices and DVR
- Up to 64 channels real-time live monitoring simultaneously in single PC
- Support for various video format : H.264, MPEG-4, MJPEG
- Support for various audio format : G.726, G.711, G.723
- Support for various video resolution
- Powerful E-map based monitoring
- Bi-directional audio communication
- Remote PTZ control and power area zoom (click and go control)
- Support for various search and playback options
- Notification in case of event occurring

	NET-i viewer (Version : 1.33)	
Supported Device	Network Camera, Encoder, DVR, NVR	
Max. Register Device	250	
Video	Supported Format	H.264, MPEG-4, MJPEG
	Supported Resolution	QXGA, UXGA, SXGA, HD, SVGA, 4CIF, Half D1, VGA, CIF, QVGA
Audio	Supported Format	G.711, G.726, G.723
	Functions	Bi-directional audio, listen, transmit client microphone input to remote speakers
Live Monitoring	Multi-monitor	Up to 4 monitors, (Follow the recommended system requirement)
	Screen-split Mode	1, 4, 6, 7, 8, 9, 10, 11, 12, 16, 25, 36, 49, 64 (Full-screen)
Audio	PTZ Control	PTZ control (Pan, Tilt, Zoom, Focus, Preset) using mouse Digital zoom in/out on the image, click and go control
	Display	50maps
System Requirement (Recommended)	Number of Map	JPEG / BMP / GIF / PNG
	System Requirement (Recommended)	CPU Intel i7 above, RAM 3GB above, Video memory 1GB above, HDD 200GB above, DirectX 8.1 above. Display resolution : 1,280 x 1,024 above, OpenGL compatible, OS : Window XP Professional, Windows 2000 Professional, Windows Vista Home Basic/Premium/Ultimate, Windows 7 (64bit / 32bit)

SPD-400

4CH Network Video Decoder



4CH

H.264

2M

Key Features

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

	SPD-400N	SPD-400P
Video Out	HDMI / VGA : Max. 1920 x 1080p, CVBS : 1.0 Vp-p / 75Ω composite 704 x 480 HDMI / VGA, CVBS selectable	
Event Trigger	Alarm Input, IP camera event input	
Alarm I/O	Input 1 ea / Output 2ea (Relay)	
Ethernet	RJ-45 (10/100/1000BASE-T)	
Video Compression Format	H.264, MPEG-4, MJPEG	
Resolution	H.264 : up to 2M pixel, MPEG-4 : up to 4CIF, MJPEG : 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	Full HD 30fps, VGA 120fps	
Display	Single view, Quad view	
Audio I/O	1 ea line in / 1 ea line out, G.711 u-law, Bi-directional audio	
IP	IPv4, IPv6	
Support Device	Samsung : SNB-7000/5000, SNV-5080/5010, SND-5080(F) SNP-3430H/3120/3120V/3120VH, SPE-400/100	
Input Voltage / Current	12V DC	
Power Consumption	Max.10W	
Dimensions (WxHxD)	128.0 x 34.0 x 178.0mm (5.04" x 1.34" x 7")	
Weight	530g (1.17 lb)	

NET-i ware

Recording Software

iPOLiS

Key Features

- Recording software for Samsung network cameras
- High performance recording : up to 250Mbps
- Triplex operation performance
- Support for various recording options
- Notification in case of event occurring
- Event log : system, user access, back up, recording, motion, alarm, video loss, I/V
- Multiple disk allocation and distribution for stable recording

	SNS-SF064	SNS-SF032	SNS-SF016
Supported Device	Samsung's Network Camera, Encoder		
Max. Register Device	64	32	16
Video	Supported Resolution	QXGA, UXGA, SXGA, HD, SVGA, 4CIF, Half D1, VGA, CIF, QVGA	
	Functions	Bi-directional audio, listen, transmit client microphone input to remote speakers	
Audio	Performance	250Mbps	
	Record Mode	Continuous, Event (Pre/Post alarm recording), Scheduled recording	
Record	Quality	10 levels	
	Pre/Post Record Time	Pre : 1 ~ 16CH 60sec, 17~ 32CH 30sec, 33 ~ 64CH 15sec, Post : 1200sec	
Search & Playback	Playback	4 user x 4CH	
	Mode	Time, Event, Timeline	
Back up	Manual	DVD/CD, USB HDD, USB flash memory, Back up format : REC1, SEC	
	Schedule	NAS (Network Attached Storage), USB HDD, Back up format : REC1	
Event Monitoring	E-mail	E-mail transfer at event occurrence	
	Preset	Preset move at alarm occurrence	
Storage	Maximum Controller of HDD	24HDDs	
	Supported Device Format	e-SATA	
System Requirement (Recommended)	Functions	Storage space assigning by each disk, Warning against lower disk space	
	System Requirement (Recommended)	CPU : Intel Core i7, RAM : 4GB Video memory : 256MB, 2HDDs(SATA II) above Microsoft .NET Framework 4.0 OS : Windows 2003 Server SP2, Windows 2008 Server	

Network Terms

NVR (Network Video Recorder)

Similar functionally to a DVR, however a NVR accepts IP camera. NVRs can also be software based, meaning that they can only accept IP camera streams over the Internet.

CCD (Charge Coupled Device, CCD)

A charge coupled device (CCD) is a device that converts light into an electrical charge, each pixel's charge value is converted into a digital value by measuring the amount of charge at each photosite and converting that measurement to binary form.

CMOS (Complementary Metal Oxide Semiconductor)

A CMOS is a widely used type of semiconductor that uses both negative and positive circuits. CMOS chips require less power than chips using just one type of transistor. CMOS image sensors also allow processing circuits to be included on the same chip.

TCP/IP (Transmission Control Protocol / Internet Protocol)

The TCP/IP model describes a set of general design guidelines and implementations of specific networking protocols to enable computers to communicate over a network. TCP/IP provides end-to-end connectivity specifying how data should be formatted, addressed, transmitted, routed and received at the destination.

Protocol

A special set of rules governing how two entities will communicate with each other. As an example it can refer to a DVR sending a camera's video image to PC via internet.

ONVIF (Open Network Video Interface Forum)

ONVIF (Open Network Video Interface Forum)) that was formed to create a standard for how IP products within video surveillance and other physical security areas can communicate with each other.

VBR (Variable Bit Rate)

Variable bit rate (VBR) is a term used in telecommunications and computing that relates to the bit rate used in sound or video encoding. VBR allows a higher bitrate (and therefore more storage space) to be allocated to the more complex segments of media files while less space is allocated to less complex segments. The average of these rates can be calculated to produce an average bitrate for the file.

GOP (Group of Picture)

In Video coding, a group of pictures, or GOP structure, specifies the order in which intra- and inter-frames are arranged. The GOP is a group of successive pictures within a coded video stream. Each coded video stream consists of successive GOPs. From the pictures contained in it, the visible frames are generated.

IPv4 (Internet Protocol version 4)

Internet Protocol version 4 (IPv4) is the fourth revision in the development of the Internet Protocol (IP). It is a connectionless protocol for use on Ethernet networks. It operates on a best effort delivery model; in that it does not guarantee delivery, nor does it assure proper sequencing or avoidance of duplicate delivery.

IPv6 (Internet Protocol version 6)

Internet Protocol version 6 (IPv6) is a version of the Internet Protocol (IP) intended to succeed Internet Protocol version 4 (IPv4), which currently directs almost all Internet traffic, but is running out of addresses. IPv6 allows up to 2¹²⁸ addresses, a massive increase from the 232 (about 4.3 billion) addresses possible with IPv4, and includes several other improvements.

UTP (Unshielded Twisted Pair cable)

A cable medium with one or more pairs of twisted insulated copper conductors bound in a single sheath, with no overall or individual screen. Currently the most common method of bringing telephone signals and data to the desktop.

CAT.5 (Category 5 cable)

Category 5 cable (Cat 5) is an unshielded twisted pair cable standard used in structured cabling for computer networks such as Ethernet. It is also used to carry other signals such as telephony and video, supporting a maximum speed of 100Mbps. This type of cable is commonly used in home/office application.

CAT.6 (Category 6 cable)

Category 6 cable, commonly referred to as Cat 6, is a cable standard for Gigabit Ethernet and other network physical layers that is backward compatible with the Category 5/5e standards. The cable standard provides performance of up to 250 MHz and is suitable for 10BASE-T, 100BASE-TX (Fast Ethernet), 1000BASE-T/1000BASE-TX (Gigabit Ethernet) and 10GBASE-T (10-Gigabit Ethernet).

SD (Standard Definition)

The term is usually used in reference to digital television, in particular when broadcasting at the same (or similar) resolution as analogue systems. In terms of the pixel resolution it includes 720 x 480 and 640 x 480.

HD (High Definition)

The term refers to any video system of higher resolution than standard-definition (SD) video, and most commonly involves display resolutions of 1,280×720 pixels (720p) or 1,920×1,080 pixels (1080i/1080p). The 1080p sometimes refers to 'Full HD'.

PoE(PoE+) (Power over Ethernet)

Power over Ethernet provides power to a network device via the same cable as used for the network connection. The original IEEE 802.3af-2003 PoE standard provides up to 15.4 W of DC power (minimum 44 V DC and 350 mA to each device. Only 12.95 W is assured to be available at the powered device as some power is dissipated in the cable. The updated IEEE 802.3at-2009 PoE standard also known as PoE+ or PoE plus, provides up to 25.5 W of power

Ethernet

Ethernet is a family of computer networking technologies for local area networks (LANs) The most commonly installed Ethernet systems are 10BASE-T and 100BASE-T10, which provide transmission speeds up to 10 Mbps and 100 Mbps respectively. Systems communicating over an Ethernet divide a stream of data into individual packets called frames. Each frame contains source and destination addresses and error-checking data so that damaged data can be detected and re-transmitted.

Compression Algorithm

This is a algorithm to effectively transmit and/or record data (video/audio). The most common video compression standard used in security products are JPEG, MJPEG and H.264. The H.264 is currently one of the most commonly used formats for the recording, compression, and distribution of high definition video.

Modem (Modulation Demodulation)

A modem (modulator-demodulator) is a device that modulates an analog carrier signal to encode digital information, and also demodulates such a carrier signal to decode the transmitted information. The goal is to produce a signal that can be transmitted easily and decoded to reproduce the original digital data.

FDF (Fiber Distribution Frame)

The distribution frame is a passive device which terminates cables, allowing arbitrary interconnections to be made. In physical network security industry, the FDF refers to the enclosure to protect the optical fibre cables for network devices.

Switch

A switch is a network device that connects network segments together and which selects a path for sending a unit of data to its next destination.

Backbone

A backbone network or network backbone is a part of computer network infrastructure that interconnects various pieces of network, providing a path for the exchange of information between different LANs or sub networks. A backbone can tie together diverse networks in the same building, in different buildings in a campus environment, or over wide areas. Normally, the backbone's capacity is greater than the networks connected to it.

Streaming Server

Streaming server refers to the delivery method of the medium rather than to the medium itself. It is a server that is constantly received by and presented to an operator's terminal while being delivered by a streaming provider.

Streaming

Streaming refers to a sequence of data, video or voice elements made available over time.

RJ45

A registered jack connector and wiring pattern used for the connection of a high-speed computer modem and modem device.



MEMO

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