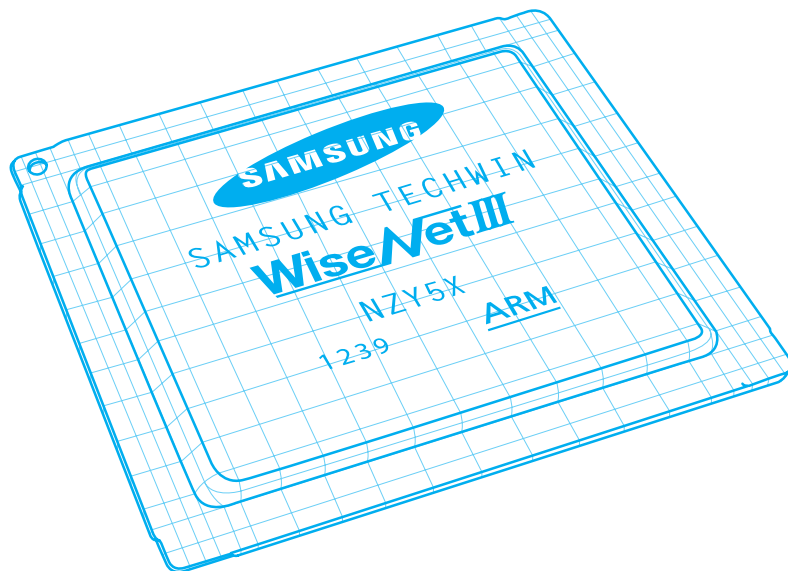# Wise*Net III*

THE WISE CHOICE FOR PROFESSIONALS

The Wise Choice for Professionals

The WiseNetIII features the most advanced functions from Samsung with 1.3 megapixel to 3 megapixel cameras for high definition images. Designed to meet the market needs, WiseNetIII cameras will be the standard product for the professional security systems.

Unrivaled Image Quality		- SSLE (Samsung Super Light Enhancer) - 120dB WDR - Defog - Enhanced DIS - P-Iris
Efficient Network Transmission		- 30fps @ 3MP, 60fps @ 2MP/1.3MP - Improved bandwidth utilization - Multi-crop Streaming
User Convenience		- Simple focus - Support various web browsers - Convenient installation - Motion/Audio/Face detection
Network Total Solution		- Samsung Total Network Solution

Hawk by day

:3M full line-up guarantees sharp & clear vision.
-30fps @ 3M, (60fps @ other resolutions).
-120dB Real-time WDR

Owl by night

:Enhance the level of safety in night,
WN3 strengthens its nocturnal feature,
called SSLE(Samsung Super Light Enhancer).
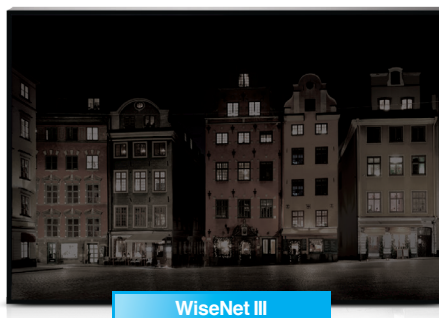-3MP,2MP: 0.1Lux / 1MP : 0.05Lux (min. Illumination)

Unrivaled Image Quality

SSLE (Samsung Super Light Enhancer)

WiseNetIII cameras are incorporated with Super Low Light technology which produces great color images in extreme low light conditions. Users can now monitor scenes at night eliminating the risk of missing any movement in dark areas such as parking lots or dark alleys.
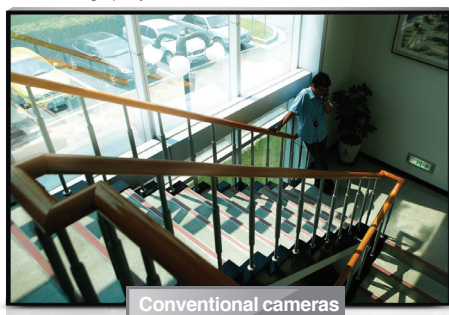
	3MP	2MP	1.3MP
min. Illumination	0.1Lux	0.1Lux	0.05Lux

Conventional cameras

WiseNet III

3MP 120dB WDR (Wide Dynamic Range)

The WDR function built into the WiseNetIII series provides 30fps of 3MP enhanced picture quality, by reducing motion blur and processing clearer images. While working with a contrast ratio of approximately 120dB the WDR feature accurately reproduces the detail of the images in scenes that simultaneously contain very bright and very dark areas.

Enhanced image quality

Conventional cameras

WiseNet III
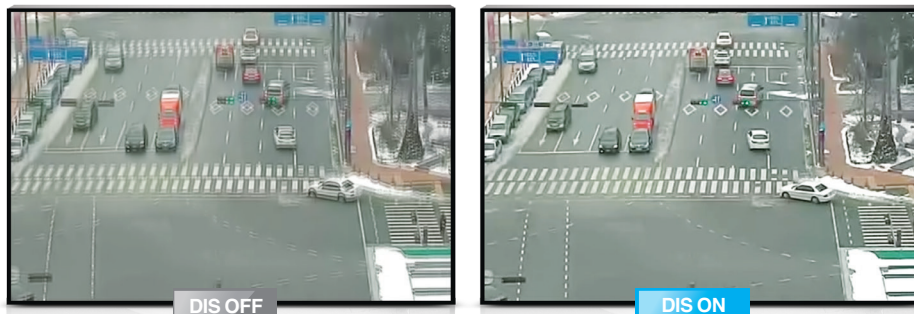
Without motion blur

Conventional cameras

WiseNet III

Defog

Defog is a unique feature to the WiseNetIII line of cameras. Defog is used to help improve the visibility of the camera's image in poor weather conditions such as smog, fog, or even smoke. Perfect for college campuses, bridges and city environments.
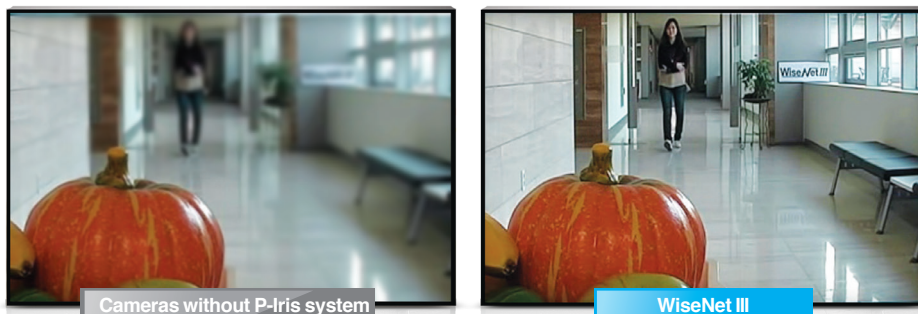

Defog OFF

Defog

Enhanced DIS (Digital Image Stabilization)

Previously only seen in analog CCDs, Samsung's new WiseNetIII CMOS sensor now incorporates Digital Image Stabilization (DIS) technology, which negates the effects of a camera shaking due to high wind or building vibration. DIS also greatly reduces the rolling shutter effect such as image wobble or skew that can often be seen in high quality images. With enhanced DIS technology, the problems of monitoring using a camera installed on a pole or in windy conditions can be reduced. This also assists in the capture/detection of fast moving car number plates.

DIS OFF

DIS ON

P-Iris

The entire WiseNetIII 3MP (except fisheye cameras) supports P-Iris, which optimizes the iris function when multiple lighting conditions exist in a single scene, which results in images with better contrast, clarity, resolution and depth of field. The optimization of the resolution at both the center and corner of the image, as well as the depth of field and shutter speed, provide increased image sharpness especially effective in megapixel cameras such as the WiseNetIII series.   (Applied models : SNB-7004/6004/6003/5004/5003, SND-7084(R), SNV-7084(R), SNO-7084(R))

Cameras without P-Iris system
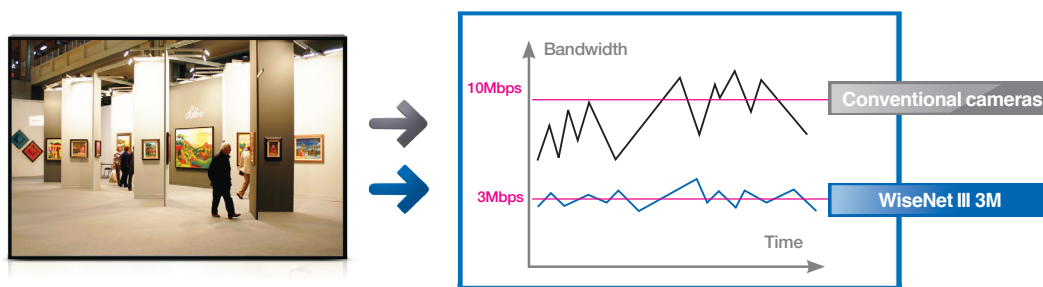
WiseNet III

Efficient Network Transmission

30fps @ 3Megapixel resolution

From Samsung Techwin's powerful WiseNetIII encoding technology, the cameras have an ultra fast framerate of 30fps at 3MP (60fps at 2MP) resolution, this results in latency free clear images. It is possible to utilize this framerate in multiple ways. For example, using 30fps at 3MP (60fps at 2MP) resolution, can be particularly beneficial when viewing moving objects to ensure that any edges are kept sharp and clear.

Conventional cameras

WiseNet III

Mobile **Profile1** VGA 5fps

NVR **Profile2** 3MP 30fps

PC **Profile3** VGA 25fps

Improved bandwidth utilization

By applying an advanced compression technology, the WiseNetIII network camera's streaming performance is greatly enhanced. The camera uses 30% less network bandwith when compared to other conventional cameras. Seamless image transfer is possible due to this improved bandwidth technology, even when there is limited network bandwidth available there is improved storage efficiency.

Bandwidth

10Mbps — Conventional cameras

3Mbps — WiseNet III 3M

Time

Multi-crop streaming up to 9 areas

Multi-crop streaming, allows users to highlight/crop areas of the scene up to 9 areas within total 30fps(3MP)/60fps(2MP) so that only those areas of interest will be transmitted from the camera in a predetermined resolution and framerate. This flexibility in the video's resolution and framerate allows a much smarter and efficient use of the network's bandwidth, resulting in reduced data size and storage capacity.

640 x 480 15fps

1024 x 768 15fps

Full overview

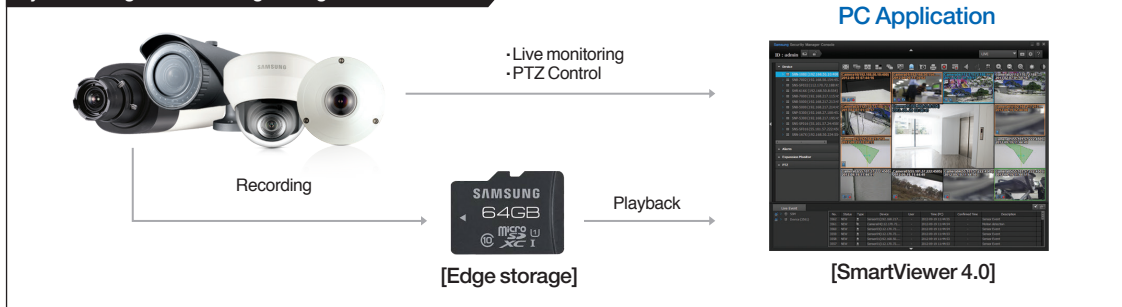1920 x 1080 30fps

Network Total Solution

Samsung Network Products Solution

The WiseNetIII cameras have been designed to be compatible with existing Samsung Techwin mobile, storage, and camera monitoring software.
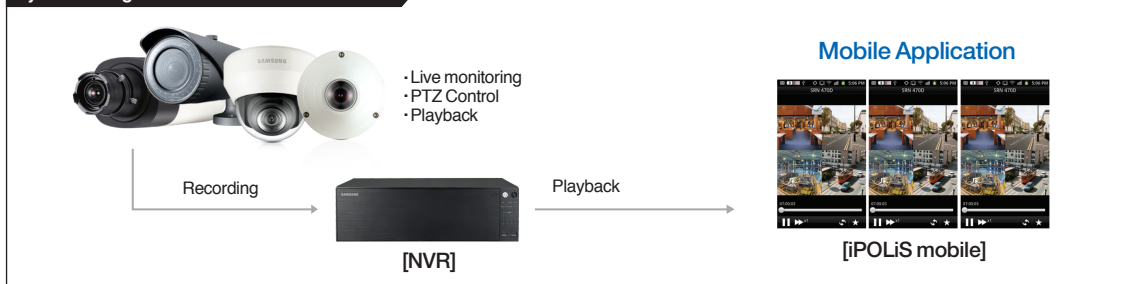
Small application

For the small application, users can use edge storage as a recording solution, SmartViewer CMS for management and iPOLiS mobile for Smartphone monitoring.
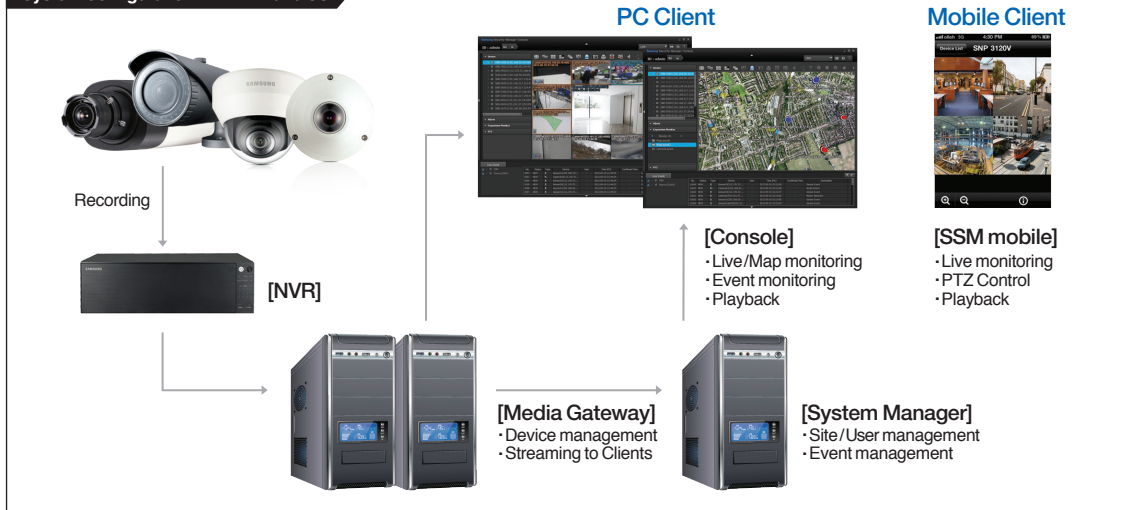
System Configuration with Edge storage and SmartViewer

- Live monitoring
- PTZ Control

Recording

Playback

PC Application

[Edge storage]

[SmartViewer 4.0]

System Configuration with NVR and mobile viewer

- Live monitoring
- PTZ Control
- Playback

Recording

Playback

Mobile Application

[NVR]

[iPOLiS mobile]

Mid / Large system

For the mid/large application, hardware/software NVRs can be used as the recording solution while Samsung Security Manager (SSM) can be used as the monitoring/management software.

System Configuration with NVR and SSM

PC Client

Mobile Client

Recording

[NVR]

[Console]
- Live/Map monitoring
- Event monitoring
- Playback

[SSM mobile]
- Live monitoring
- PTZ Control
- Playback

[Media Gateway]
- Device management
- Streaming to Clients

[System Manager]
- Site/User management
- Event management

User Convenience

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. For WiseNetIII ranges of box and dome cameras, users can also adjust the optimal focus remotely via the network, greatly reducing the installation /optimization time of the camera.
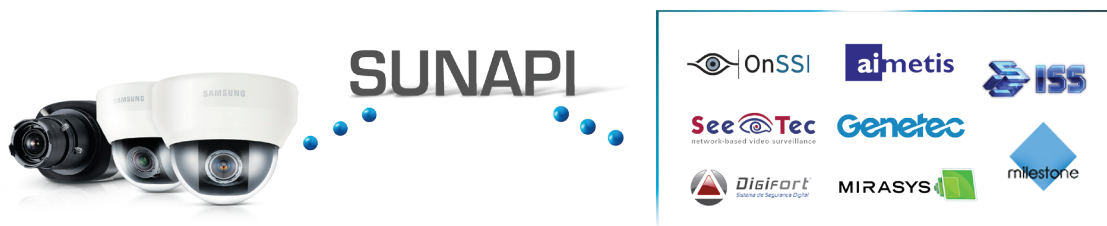
Multi-browser support

WiseNetIII cameras utilized NPAPI(Netscape Plugin Application Programming Interface) this plug-in architecture removes the limitation on supporting resolution and web-browser types, which had caused problems with other network cameras. NPAPI is designed to satisfy both sides, the operating system and a solution for adopting Samsung Techwin's optimized security system codec. Utilizing NPAPI, Google Chrome, Safari, Firefox, and IE can be used to monitor the WiseNetIII cameras.

Compatibility with major ISV(Independent Software Vendor)

Samsung is committed to having a strong relationship with and integrating to ISV or VMS (Video Management Software) platforms using SUNAPI(Samsung Unified Network Application Programming Interface), supports the CGI(Common Gateway Interface) commands for easy integration. In addition, all WiseNetIII cameras utilize the ONVIF protocol that allows for the interoperability between compatible devices from 3rd party companies; to achieve this, simply select one of the profiles from the list that provides user's required features. * The ISV partnership will be expanded gradually.

Motion/Audio/Face detection

Motion detection technology built-into WiseNetIII greatly reduced the false alarm rate and greatly improved the efficiency of the operators, by learning what is the normal motion of the scene it can ignore it, such as waves in the sea or the leaf movement of trees. This technology has also been adopted for audio detection, so that the camera will only recognize abnormal noise levels. Face detection is also available and will detect up to 35 faces in the scene, these will be listed on the NVR as separate events for quick recall.

Motion detection

Conventional cameras

WiseNet III

Audio detection

Face detection

Easy installation

WiseNetIII dome cameras are pigtail and cable bundle free (in the past these bundles had often made the installation more complicated and time consuming), yet provide the option to plug-in cables as required in an area that allows ample room for cable movement making it more convenient, improve installation time and total cost of ownership.

Conventional cameras

WiseNet III

Product Overview

3MP

SNB-7004

3MP Full HD Network Camera
- 30fps@2048x1536 / 60fps@1920x1080
- Simple focus(ABF), P-Iris
- Day&Night(ICR), Enhanced DIS, Defog
- 3M real-time WDR(Max. 120dB)
- Built-in SD/SDHC/SDXC memory slot
- Built-in Mic.

SND-7084R

3MP Full HD Network IR Dome Camera
- 30fps@2048x1536 / 60fps@1920x1080
- Simple focus(Motorized VF), P-Iris
- Day&Night(ICR), Enhanced DIS, Defog
- 3M real-time WDR(Max. 120dB)   • Built-in Mic.
- Color : 0.1 Lux (F1.2, 50IRE) / B/W : 0 Lux(IR LED on)
- Built-in SD/SDHC/SDXC memory slot
- Multi-crop streaming

SNV-7084R

3MP Full HD Vandal-Resistant Network IR Dome Camera
- 30fps@2048x1536 / 60fps@1920x1080
- Simple focus(Motorized VF), P-Iris   • IP66/IK10
- Day&Night(ICR), Enhanced DIS, Defog
- 3M real-time WDR(Max. 120dB)   • Multi-crop streaming
- Color : 0.1 Lux (F1.2, 50IRE) / B/W : 0 Lux(IR LED on)
- Built-in SD/SDHC/SDXC memory slot

SNF-7010/7010V/7010VM

3M Full HD 360 Degree Fisheye Camera
- 20fps @ 2048x1536   • WDR (120dB)
- Single panorama, Double panorama, Quad
- H.264, MJPEG dual codec, Multiple streaming
- Digital PTZ, Bi-directional audio support
- SD/SDHC/SDXC memory slot
- IP66, IK10 and EN50155 (SNF-7010V)
- Ethernet : RJ-45(SNF-7010/7010V), M12(SNF-7010VM)

SND-7084

3MP Full HD Network Dome Camera
- 30fps@2048x1536 / 60fps@1920x1080
- Simple focus(Motorized VF), P-Iris, Multi-crop streaming
- Day&Night(ICR), Enhanced DIS, Defog
- 3M real-time WDR(Max. 120dB)
- Color : 0.1 Lux (F1.2, 50IRE) / B/W : 0.01 Lux (F1.2, 50IRE)
- Built-in SD/SDHC/SDXC memory slot   • Built-in Mic.

SNV-7084

3MP Full HD Vandal-Resistant Network Dome Camera
- 30fps@2048x1536 / 60fps@1920x1080
- Simple focus(Motorized VF), P-Iris   • Multi-crop streaming
- Day&Night(ICR), Enhanced DIS, Defog   • Heater by PoE
- 3M real-time WDR(Max. 120dB)   • IP66/IK10
- Color : 0.1 Lux (F1.2, 50IRE) / B/W : 0.01 Lux (F1.2, 50IRE)
- Built-in SD/SDHC/SDXC memory slot

SNO-7084R

3MP Full HD Weatherproof Network IR Camera
- 30fps@2048x1536 / 60fps@1920x1080
- Simple focus(Motorized VF), P-Iris   • IP66/IK10
- Day&Night(ICR), Enhanced DIS, Defog
- 3M real-time WDR(Max. 120dB)   • Multi-crop streaming
- Color : 0.1 Lux (F1.2, 50IRE) / B/W : 0 Lux(IR LED on)
- Built-in SD/SDHC/SDXC memory slot

2MP

SNB-6004

2MP Full HD Network Camera
- 60fps @1920 X 1080
- Simple focus, P-Iris
- Day & Night (ICR), Enhanced DIS, Defog
- WDR (120dB↑, 30fps @ WDR mode)
- Built-in SD/SDHC/SDXC memory slot
- Multi-crop streaming

SNB-6010

2MP 4.6mm Remote Head Camera
- 30fps@1920 x1080
- WDR(120dB)
- 0.05Lux@F1.2(Color)
- Advanced motion detection, Defog, VA
- Multi-crop streaming

SNB-6003

2MP Full HD Network Camera
- 60fps @1920 X 1080
- P-Iris
- Day & Night (Electrical), Enhanced DIS, Defog
- WDR (Max. 120dB↑, 30fps @ WDR mode)
- Built-in SD/SDHC/SDXC memory slot
- Multi-crop streaming

SNO-6084R

2MP Full HD Weatherproof Network IR Camera
- 60fps @1920 X 1080   • Simple focus
- 3~8.5mm (2.8x) motorized varifocal lens
- Day & Night (ICR), Enhanced DIS, Defog
- WDR (Max. 120dB↑, 30fps @ WDR mode)
- Built-in SD/SDHC/SDXC memory slot
- Multi-crop streaming   • IP66, IK10

2MP

SNO-6011R

2MP Full HD Weatherproof Network IR Camera
- 30fps@1920x1080
- Built-in 3.8mm fixed lens
- Day & Night (ICR), Enhanced DIS, Defog
- WDR (Max. 120dB), IR LED (IR distance 15m, 16ea)
- Built-in micro SD/SDHC/SDXC memory slot
- Multi-crop streaming, IP66

SND-6084R

2MP Full HD Network IR Dome Camera
- Max. 2M (1920x1080) resolution, Full HD support
- 60fps @1920 X 1080 • Simple focus
- 3~8.5mm (2.8x) motorized varifocal lens
- Day & Night (ICR), Enhanced DIS, Defog
- WDR (120dB↑, 30fps @ WDR mode)
- Built-in SD/SDHC/SDXC memory slot • Multi-crop streaming

SND-6011R

2MP Full HD Network IR Dome Camera
- 16 : 9 Full HD (1080p) resolution support
- 3.8mm fixed lens   • 60fps @1920 X 1080
- Day & Night (ICR), WDR (Max. 120dB)
- Enhanced DIS, Defog
- Built-in micro SD/SDHC/SDXC memory slot
- Multi-crop streaming   • IR LED (IR distance 10m, LED 10ea)

SNV-6084

2MP Full HD Vandal-Resistant Network Dome Camera
- 60fps@1920x1080, Simple focus
  Built-in 3~ 8.5mm(2.8x) Motorized Varifocal lens
- Day & Night (ICR), Enhanced DIS, Defog
- WDR (Max. 120dB, 30fps@2MP)
- Built-in SD/SDHC/SDXC memory slot
- Multi-crop streaming • PoE supports, IP66, IK10

SND-6084/6083

2MP Full HD Network Dome Camera
- 60fps @1920 X 1080 • Multi-crop streaming
- 3~8.5mm (2.8x) motorized varifocal lens
- Day & Night (ICR), Enhanced DIS, Defog
- WDR (Max. 120dB↑, 30fps @ WDR mode)
- Built-in SD/SDHC/SDXC memory slot
- Simple focus : SND-6084

SNV-6084R

2MP Full HD Vandal-Resistant Network IR Dome Camera
- 60fps @1920 X 1080
- 3 ~ 8.5mm (2.8x) motorized varifocal lens
- Simple focus, Day&Night (ICR),Defog
- H.264, MJPEG dual codec, Multiple streaming
- Multi-crop streaming, PoE, Bi-directional audio
- IP66, IK10 • WDR(120dB)

SNV-6012M

2MP Full HD Vandal-Resistant Network Mobile Flat Camera
- 60fps@1920 X 1080
- Day & Night (Electrical), Enhanced DIS, Defog
- WDR (Max. 120dB), SD/SDHC/SDXC memory slot
- IP66/IK10, M12 connector, EN50155, EN50121

SNV-6013

2MP Full HD Vandal-Resistant Compact Dome Camera
- 60fps @ 1920x1080
- Built-in 2.8 fixed lens
- Real-time WDR (2M 30fps, 120dB)
- Min illumination 0.1Lux (color), SSDR, SSNRIII
- MD, AD, FD, Video analytics
- IP66, IK10

1.3MP

SNB-5004

1.3MP HD Network Camera
- 60fps @ 1280x1024
- Simple focus, P-iris
- Day & Night (ICR), Enhanced DIS, Defog
- WDR (130dB)
- Built-in micro SD/SDHC/SDXC memory slot
- Multi-crop streaming

SND-5084/5083

1.3MP HD Network Dome Camera
- 60fps @ 1280x1024
- 3 ~ 8.5mm (2.8x) motorized varifocal lens: SND-5084
- 2.8 ~ 10mm (3.6x) varifocal lens: SND-5083
- Day & Night (ICR), Enhanced DIS, Defog
- WDR (Max. 130dB)
- Built-in SD/SDHC/SDXC memory slot
- Multi-crop streaming

SNB-5003

1.3MP HD Network Camera
- 60fps @ 1280x1024
- P-iris
- Day & Night (Electrical), Enhanced DIS, Defog
- WDR (Max. 130dB)
- Built-in micro SD/SDHC/SDXC memory slot
- Multi-crop streaming

SNV-5084

1.3MP HD Vandal-Resistant Network Dome Camera
- 60fps @ 1280x1024
- Built-in 3~ 8.5mm(2.8x) Motorized Varifocal lens
- Simple focus, Day & Night (ICR)
- WDR (Max. 130dB), Enhanced DIS, Defog
- Built-in SD/SDHC/SDXC memory slot

WiseNet III Line-ups

	BOX	DOME	VANDAL	BULLET
New 3MP	SNB-7004	SND-7084	SNV-7084	SNO-7084R
		SND-7084R	SNV-7084R	SNF-7010/7010V(M)
2MP	SNB-6004	SND-6084	SNV-6084	SNO-6084R
	SNB-6003	SND-6084R	SNV-6084R	SNO-6011R
	SNB-6010	SND-6083	**MOBILE** SNV-6012M	
		SND-6011R	SNV-6013	
1.3MP	SNB-5004	SND-5084	SNV-5084	
	SNB-5003	SND-5083		

Design and specifications are subject to change without notice.