


























# WiseNet III Line-ups

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

# WiseNet III

THE WISE CHOICE FOR PROFESSIONALS

Operational above and beyond the call of duty



The Eco mark represents Samsung Techwin's will to create environment-friendly products, and indicates that the product satisfies the EU RoHS Directive.

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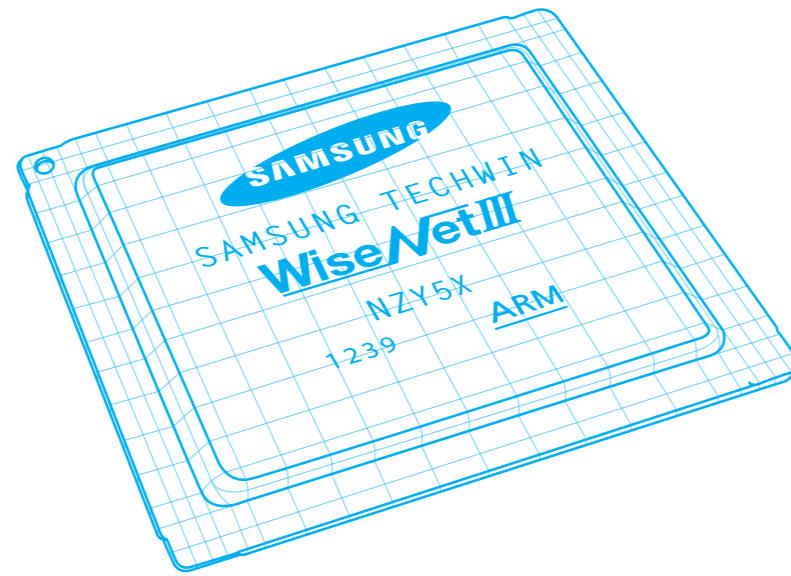
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# The Wise Choice for Professionals

The WiseNet III 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, WiseNet III cameras will be the standard product for the professional security systems.

	<b>Unrivaled Image Quality</b>	<ul style="list-style-type: none"> <li>- SSLE (Samsung Super Light Enhancer)</li> <li>- 120dB WDR</li> <li>- Defog</li> <li>- Enhanced DIS</li> <li>- P-Iris</li> </ul>
	<b>Efficient Network Transmission</b>	<ul style="list-style-type: none"> <li>- 30fps @ 3MP, 60fps @ 2MP/1.3MP</li> <li>- Improved bandwidth utilization</li> <li>- Multi-crop Streaming</li> </ul>
	<b>User Convenience</b>	<ul style="list-style-type: none"> <li>- Simple focus</li> <li>- Support various web browsers</li> <li>- Convenient installation</li> <li>- Motion/Audio/Face detection</li> </ul>
	<b>Network Total Solution</b>	<ul style="list-style-type: none"> <li>- Samsung Total Network Solution</li> </ul>



## Hawk by day

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



## Owl by night

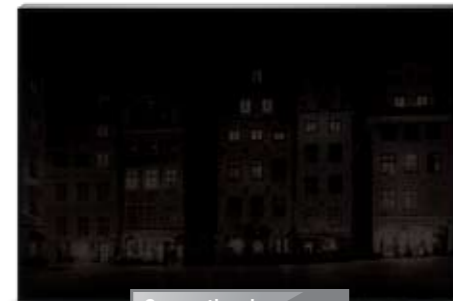
- Enhance the level of safety in night, WN3 strengthens its nocturnal feature, called SSLE (Samsung Super Light Enhancer).
- 3MP, 2MP: 0.1Lux / 1MP: 0.05Lux (min. Illumination)

# Unrivaled Image Quality

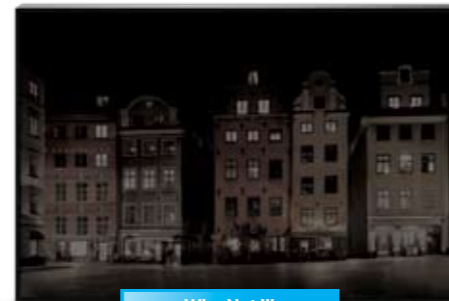
## SSLE (Samsung Super Light Enhancer)

WiseNetIII range cameras incorporate SSLE, Samsung Super Light Enhancer technology, which produce great color images in low light condition. With SSLE, even under low light conditions such as at night users can monitor the scene in 3 megapixel mode, so that there is little chance of any movement in dark areas being missed.

	3MP	2MP	1.3MP
min. Illumination	0.1Lux	0.1Lux	0.05Lux



Conventional cameras

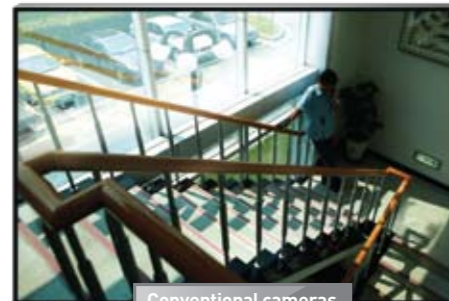


WiseNet III

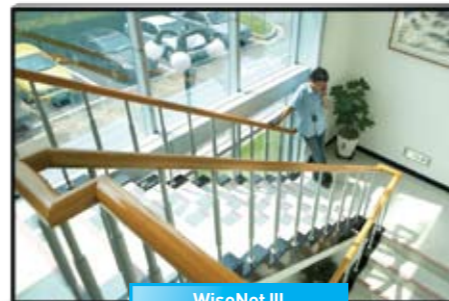
## 3MP 120dB WDR (Wide Dynamic Range)

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

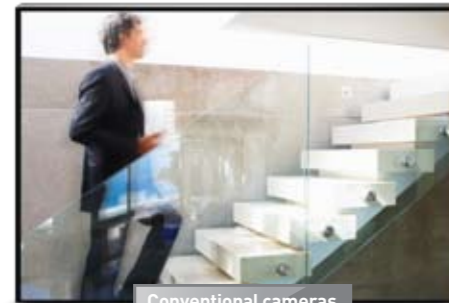


Conventional cameras



WiseNet III

Without motion blur



Conventional cameras



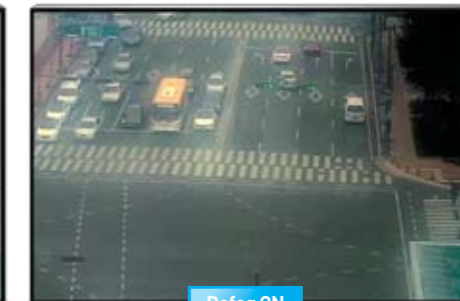
WiseNet III

## Defog

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



Defog OFF



Defog ON

## 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.



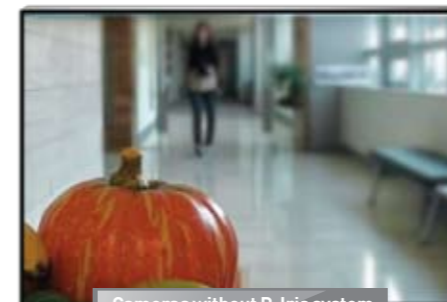
DIS OFF



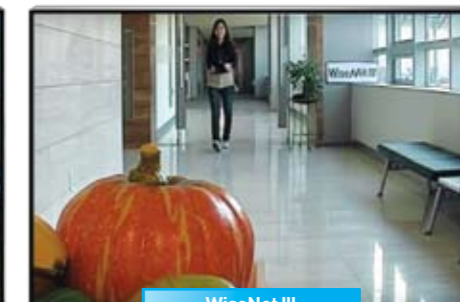
DIS ON

## 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

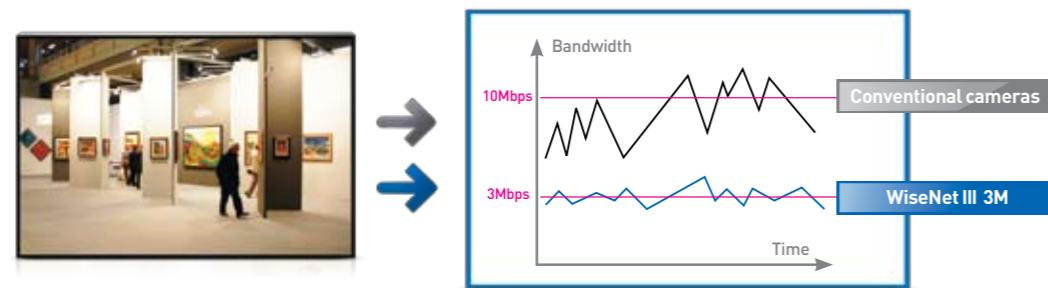
## 30fps @ 3Megapixel resolution

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.



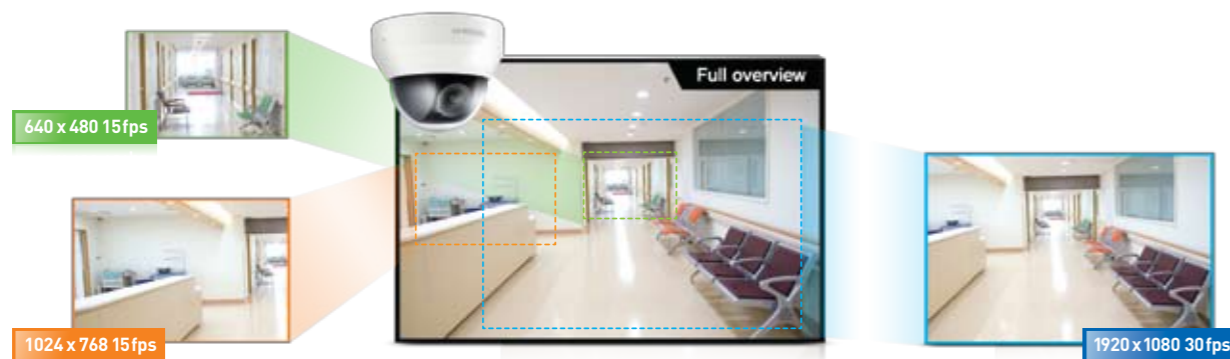
## Improved bandwidth utilization

By applying an advanced compression technology, the WiseNetIII network camera's streaming performance is greatly enhanced. The cameras can process the data streaming using 30% of the network bandwidth of other products. Because of this improved bandwidth technology, seamless image transfer is possible even when there is limited network bandwidth available, with the additional benefit of improved storage efficiency.



## 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.



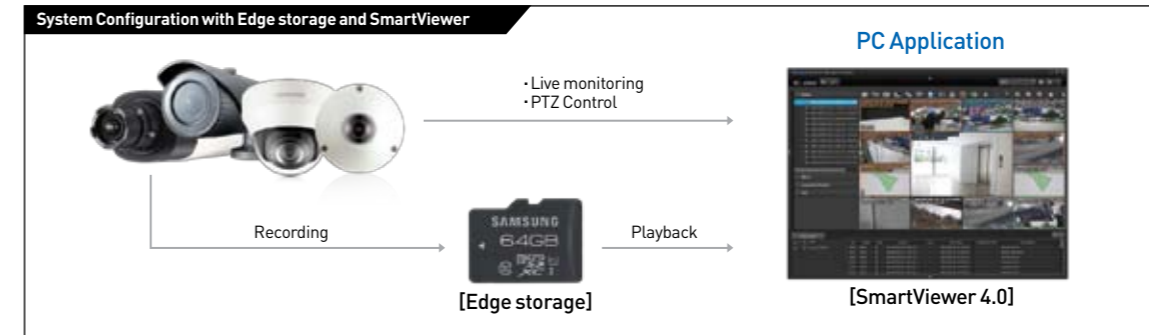
# Network Total Solution

## Samsung Network Products Solution

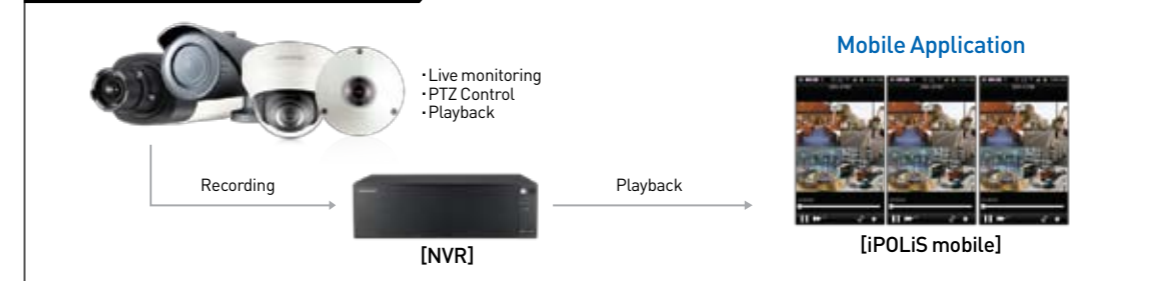
The WiseNetIII cameras have been designed to be compatible with existing Samsung Techwin mobile, storage, and camera monitoring software.

### 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.

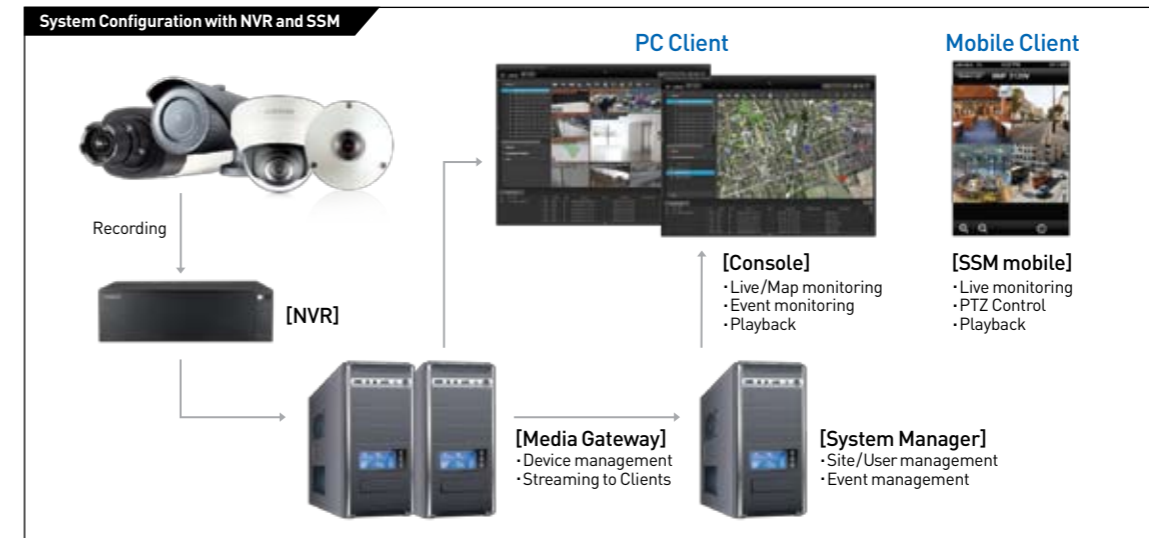


### System Configuration with NVR and mobile viewer



### 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.



# 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.



## 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.



# Product Overview

## 3MP

### SNB-7004

- 3MP Full HD Network Camera**
- 30fps@2048x1536 / 60fps@1920x1080
  - Simple focus, 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)
  - 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
  - Day&Night(ICR), Enhanced DIS, Defog
  - 3M real-time WDR(Max. 120dB)
  - 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
  - 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



### SNV-7084

- 3MP Full HD Vandal-Resistant Network Dome Camera**
- 30fps@2048x1536 / 60fps@1920x1080
  - Simple focus(Motorized VF), P-Iris
  - 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



### SNO-7084R

- 3MP Full HD Weatherproof Network IR Camera**
- 30fps@2048x1536 / 60fps@1920x1080
  - Simple focus(Motorized VF), P-Iris
  - Day&Night(ICR), Enhanced DIS, Defog
  - 3M real-time WDR(Max. 120dB)
  - 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@1920x1080
  - 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
  - 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



## 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
  - 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



### SND-6011R

- 2MP Full HD Network IR Dome Camera**
- 16:9 Full HD (1080p) resolution support
  - 3.8mm fixed lens
  - Day & Night (ICR), WDR (Max. 120dB)
  - Enhanced DIS, Defog
  - Built-in micro SD/SDHC/SDXC memory slot
  - Multi-crop streaming



### 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



### SND-6084/6083

- 2MP Full HD Network Dome Camera**
- 60fps @1920 X 1080
  - 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



### 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
  - PoE supports



### 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), SSSDR, 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

