Product Overview

WiseNet III

WiseNet III

THE WISE CHOICE FOR PROFESSIONALS

SAMSUNG
SAMSUNG TECHWIN
WiseNet III
NZY5X ARM
1239

[Professional Megapixel network cameras]

SAMSUNG

SNB-6004

2 Megapixel Full HD Network Camera

- Max. 2M (1920x1080) resolution, Full HD support
- 60fps @1920 X 1080
- Simple focus, P-Iris
- Day & Night (ICR), Enhanced DIS, Defog
- WDR (100dB↑, 30fps @ WDR mode)
- Built-in SD/SDHC/SDXC memory slot
- Multi-crop streaming

SNB-6003

2 Megapixel Full HD Network Camera

- Max. 2M (1920x1080) resolution, Full HD support
- 60fps @1920 X 1080
- P-Iris
- Day & Night (Electrical), Enhanced DIS, Defog
- WDR (100dB↑, 30fps @ WDR mode)
- Built-in SD/SDHC/SDXC memory slot
- Multi-crop streaming

SND-6084

2 Megapixel Full HD Network Dome Camera

- Max. 2M (1920x1080) resolution, Full HD support
- 60fps @1920 X 1080
- 3~8.5mm (2.8x) motorized varifocal lens
- Simple focus
- Day & Night (ICR), Enhanced DIS, Defog
- WDR (100dB↑, 30fps @ WDR mode)
- Built-in SD/SDHC/SDXC memory slot
- Multi-crop streaming

SND-6083

2 Megapixel Full HD Network Dome Camera

- Max. 2M (1920x1080) resolution, Full HD support
- 60fps @1920 X 1080
- 3~8.5mm (2.8x) varifocal lens
- Day & Night (Electrical), Enhanced DIS, Defog
- WDR (100dB↑, 30fps @ WDR mode)
- Built-in SD/SDHC/SDXC memory slot
- Multi-crop streaming

SND-6084R

2 Megapixel 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
- Simple focus
- Day & Night (ICR), Enhanced DIS, Defog
- WDR (100dB↑, 30fps @ WDR mode)
- Built-in SD/SDHC/SDXC memory slot
- Multi-crop streaming

SNO-6084R

2 Megapixel Full HD Weatherproof Network IR Dome Camera

- Max. 2M (1920x1080) resolution, Full HD support
- 60fps @1920 X 1080
- 3~8.5mm (2.8x) motorized varifocal lens
- Simple focus
- Day & Night (ICR), Enhanced DIS, Defog
- WDR (100dB↑, 30fps @ WDR mode)
- Built-in SD/SDHC/SDXC memory slot
- Multi-crop streaming
- IP66, IK10

SNV-6084R

2 Megapixel Full HD Vandal-Resistant Network IR Dome Camera

- Max. 2M (1920x1080) resolution, Full HD support
- 60fps @1920 X 1080
- 3~8.5mm (2.8x) motorized varifocal lens
- Simple focus
- Day & Night (ICR), Enhanced DIS, Defog
- WDR (100dB↑, 30fps @ WDR mode)
- Built-in SD/SDHC/SDXC memory slot
- Multi-crop streaming   • IP66, IK10

Design and specifications are subject to change without notice.
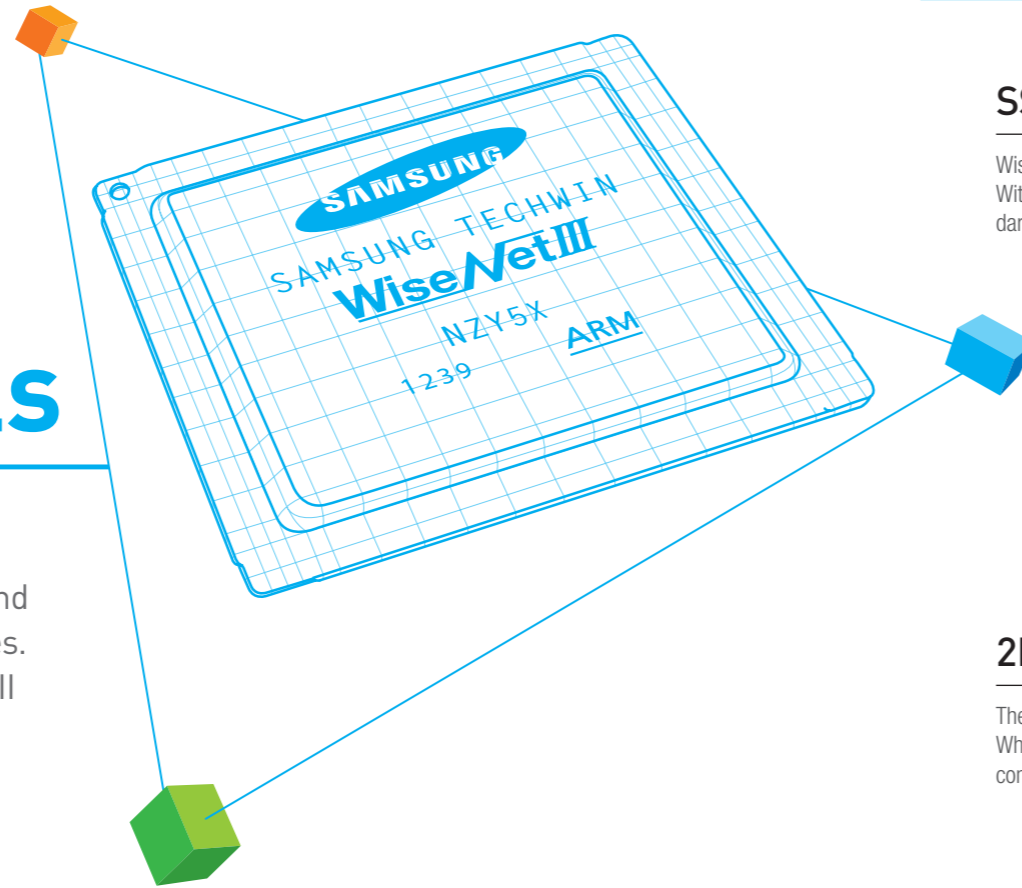
The Wise Choice for Professionals

The WiseNetIII features the most advanced functions from Samsung with 1.3 megapixel and 2 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	Unrivaled Image Quality	- SSLE (Samsung Super Light Enhancer) - 100dB WDR - Defog - Enhanced DIS - P-Iris
Efficient Network Transmission	Efficient Network Transmission	- 60fps @ 2 Megapixel resolution - Improved bandwidth utilization - Multi-crop Streaming
	User Convenience	- Simple focus - NPAPI Plug-in for Web Browsers - Convenient installation - Motion/Audio/Face detection
	Network Total Solution	- Samsung Total Network Solution

Unrivaled Image Quality

SSLE (Samsung Super Light Enhancer)

WiseNetIII range cameras incorporate with 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 2 megapixel, so that there is little chance of any movement in dark areas being missed.
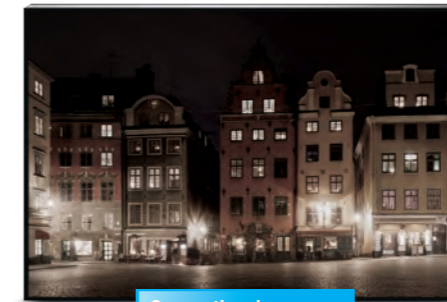
Conventional cameras
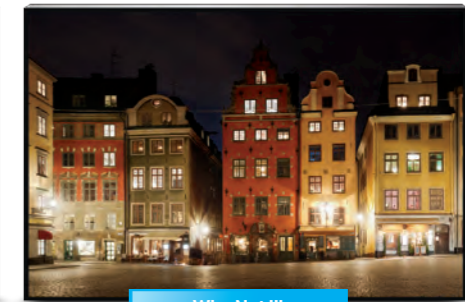
WiseNet III

2MP 100dB WDR (Wide Dynamic Range)

The WDR function built into the WiseNetIII series provides 30fps of 2MP enhanced picture quality, by reducing motion blur and processing clearer images. While working with a contrast ratio of approximately 100dB the WDR feature accurately reproduces the detail of the images in scenes that simultaneously contain very bright and very dark areas.

Conventional cameras
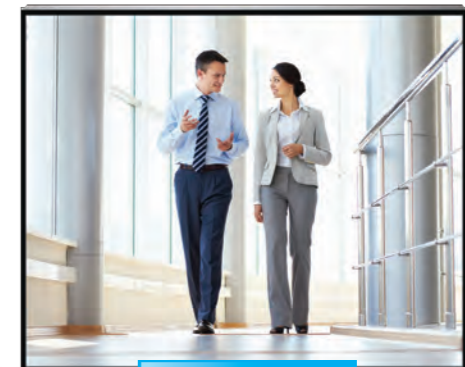
WiseNet III

(Enhanced image quality)

Conventional cameras

WiseNet III

(Without motion blur)

Unrivaled
Image Quality

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.
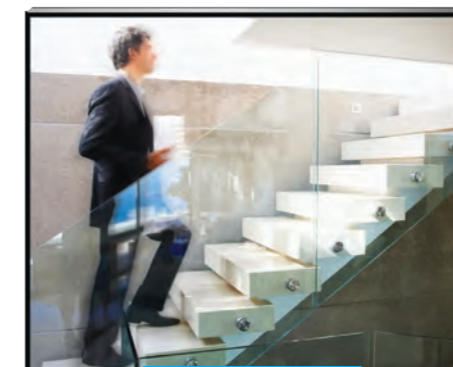
Defog OFF

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, this 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 WiseNetIII box cameras supports the P-Iris system, which optimizes the iris function when multiple lighting conditions exist in a single scene, this 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.

Cameras without P-Iris system
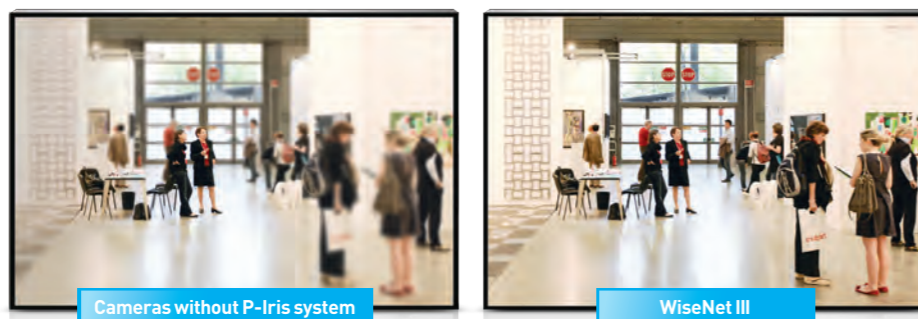
WiseNet III

Efficient
Network Transmission

60fps @ 2 Megapixel resolution

From Samsung Techwin's powerful WiseNetIII encoding technology, the cameras have an ultra fast framerate of 60fps at 2 megapixel 1080p resolution, this results in latency free clear images. It is possible to utilize this framerate in multiple ways. For example, using 60fps at 2 megapixel 1080p resolution, can be particularly beneficial when viewing moving objects to ensure that any edges are kept sharp and clear. By dividing the framerate between the NVR and PC monitoring, users can both record and monitor the scene at real-time.

Conventional (30fps)

WiseNet III (60fps)

Mobile
Profile1
VGA 5fps

NVR
Profile2
2MP 30fps

PC
Profile3
VGA 30fps

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 is improved storage efficiency.

Bandwidth

8Mbps

2.5Mbps

Conventional

WiseNet III

Time
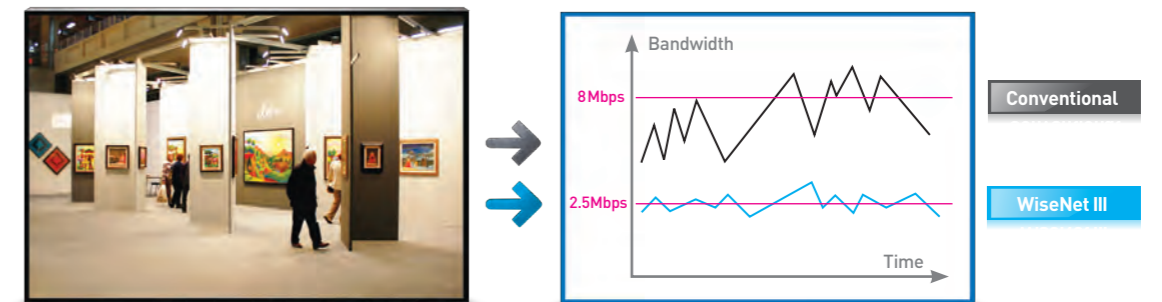
Multi-crop streaming

Multi-crop streaming, allows users to highlight/crop areas of the scene 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

Full overview

1024 x 768 15fps

1920 x 1080 30fps

WiseNet III
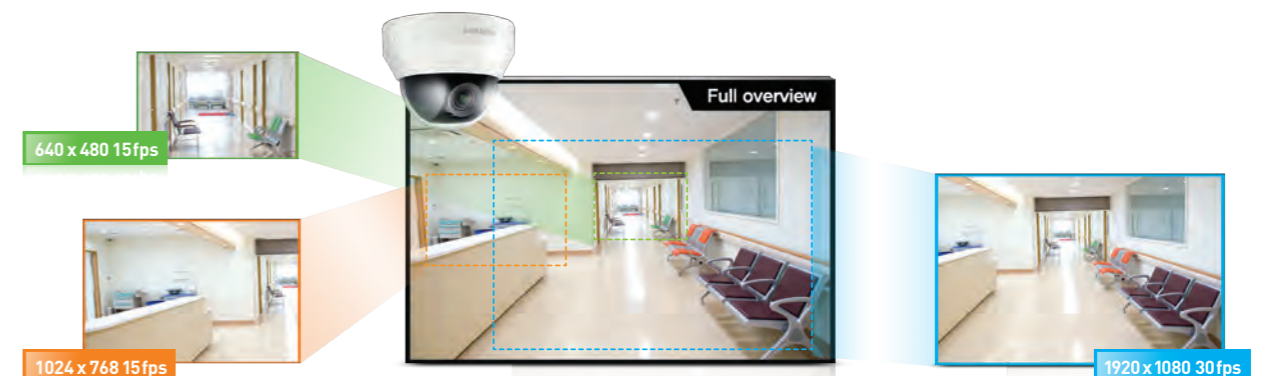
User Convenience

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.

Conventional cameras | WiseNet III

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.

Network

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.

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
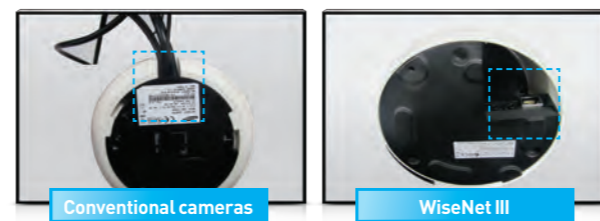
Motion/Audio/Face detection

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.
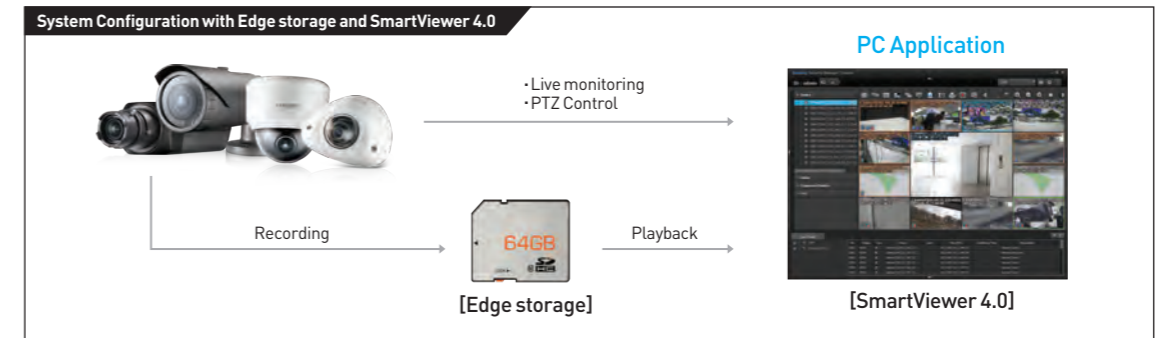
Motion detection | Conventional cameras | WiseNet III
Audio detection
Face detection
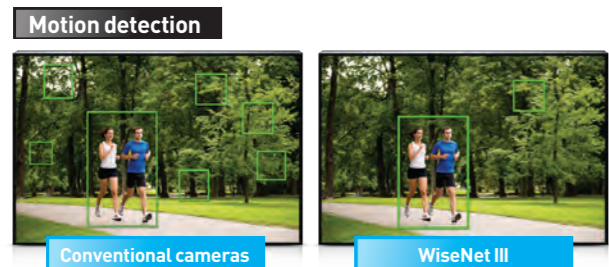
WiseNet III

Network Total Solution

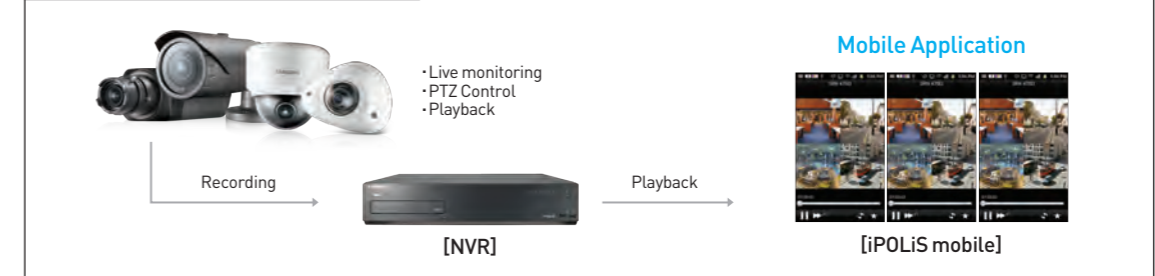## Samsung Network Products Solution

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 4.0

PC Application
· Live monitoring
· PTZ Control
Recording — [Edge storage] 64GB — Playback
[SmartViewer 4.0]

System Configuration with NVR and mobile viewer

Mobile Application
· Live monitoring
· PTZ Control
· Playback
Recording — [NVR] — Playback
[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