

Wisenet WAVE

An operating system to suit your needs

Wisenet WAVE has applications for all major operating systems so our users are not limited by what device or operating system they choose to use on their desktops, mobile devices, rack mount servers, or even low-powered embedded devices. Choose a solution that suits your business needs; Cloud - Desktop - Mobile - Server.

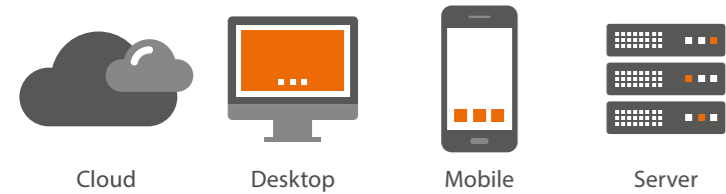
Wisenet WAVE has full SUNAPI 2.0 integration for Wisenet cameras and recorders.

Our new Wisenet WAVE VMS is the perfect partner for middle to large scale projects due to its intuitive user interface.

Open Video Platform

The most intuitive, easy to use and powerful VMS

- Drag and drop interface for intuitive video management
- Video wall and completely customisable layouts
- Full support for Hanwha Techwin advanced analytics and events
- ONVIF support for 3rd party cameras and encoders
- API integrations for 3rd party access and storage systems



Wisenet SSM

Wisenet SSM is video management software with features for both traditional and contemporary surveillance operations. It mainly consists of two parts: server and client software giving users a simple and easy to expand architecture. The client software provides PC consoles for operators in security rooms and mobile viewers for guards on the move.

What's new in Wisenet SSM



Monitoring Performance improvement

Improved video recording server and decoding feature provide simultaneous playback in more channels than before. You can now simultaneously play videos in 128 channels while also recording them in a single server.



Schedule backup support

Users can now double the safety measures for the recorded videos by using our automatic back-up feature. By setting the start time and the repeat cycle, users can safely record their valuable image data.



Alternative Server failover

Videos that have failed to be recorded in the server are saved in an alternative server. This feature is supported in the domain with multi-servers. With this feature, users can benefit from a more effective work flow than the existing queuing method. This requires an additional recording disk and channel licence.

Hanwha Techwin specific features

NVR monitoring, search & playback; and deep camera integration with:

- H.265
- WiseStream
- All triggering events including sound classification, loitering and queue management
- Simple focus setting
- Multi directional camera support
- Hallway view
- HTTPS
- Time Settings
- Camera profile / Image configuration
- PTZ preset sync

Partner Solutions

Wisenet Retail Intelligence Solution

From small convenience store to superstore

People Counting, includes:

- Hourly / Weekly reports
- Customer patterns
- Visitor breakdowns
- POS Integration

Heat Mapping

- Dwell time estimates
- Hot spots
- Regional time occupancy

Queue Management

- Wait time periods
- Busy periods
- Open / close check out alerts

Live Dashboard Reports with server software

- Argus – for smaller installations
- Calculus – up to 16 cameras per server

PNF-9010R/FHM / XND-6080/FPC



Wisenet Traffic Management Solution

ANPR & Safe City Cloud

ANPR enabled X series cameras & Safe City Cloud solution

Comprehensive ANPR edge camera solution

- More than 95% recognition accuracy in any environment or condition.
- Guaranteed for vehicles at a maximum speed of 80 kmph.
- Reliably detects number plates from all European countries.

Complete monitoring from Cloud application, including

- Specific reactions for listed cars (black/white list)
- Notifications on listed vehicle appearance
- Live monitoring
- Parking lots management

XNO-6120R/FNP



Wisenet Automatic Incident Detection Solution

Roadway & Tunnel Monitoring

Complete AID edge system in X series camera

Reliable detection of incidents and events in traffic flow on critical infrastructure such as roads, highways, tunnels and intersections.

Intelligent Solution for Traffic Event Detection, including stopped vehicle and pedestrian, wrong way driver, slowdown and congestion and queue.

Traffic data collection for statistical purpose, including vehicle counting and classification, traffic density and average speed.

XNB-6000/AID
XNB-6005/AID
XNO-6120R/AID



Wisenet Intruder Detection Solution

A single device intruder detection solution which provides maximum detection, whilst significantly reducing the impact of time consuming and costly false alarms.

Accurate and reliable

- Intrusion, People Loitering and Abandoned Objects Detection
- Real-time reporting
- Wisenet AI-Intrusion Pro
- Wisenet AI-Security-DASH
- AI-Loitering
- AI-Lost

XNO-6020R



WISENET

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Wisenet Biometric & Retail Solution

This solution enables small retail stores to gain a greater understanding of the type and numbers of people who visit their stores.

Accurate and reliable

- People Counting, crowd monitoring, age and gender analysis
- Wisenet AI-Retail-DASH
- AI-PEOPLE
- AI-CROWD
- AI-OVERCROWD

XND-6010/RET
TNB-6030/BIO



WISENET QUICK GUIDE

About Hanwha Techwin Europe

Hanwha Techwin is a global leader developing and manufacturing video surveillance solutions. With over 40 years of expertise and background gained in developing precision engineering, optical engineering, and image processing equipment, we supply an extensive range of open platform CCTV cameras that incorporate specialist analytics software suitable for small to enterprise solutions.

The Wisenet Range



WISENET P series

Premium top of the range 4K Ultra HD

WISENET X series

eXtreme performance high end with analytics

WISENET Q series

Quality entry level IP network cameras

WISENET HD+ series

Analogue High Definition (1080p)



Wisenet ranges are available in the forms below:



Why Choose Wisenet?

- We make our own chipset and lenses offering the best in class image processing technology
- We lower the 'Total Cost of Ownership' by offering the lowest failure rates in the industry
- Our wide range of innovative features built into the Wisenet cameras / camera integration with multiple on-board 3rd party analytics applications
- Our unique video compression technology called WiseStream II can reduce data by up to 99%, when combined with H.265 compression. WiseStream is available on Wisenet Q, P and X series cameras.
- The huge processing power of the open platform chipsets at the heart of Wisenet cameras
- Offering a 5 year warranty to our STEP Partners

WISENET P series



WISENET P
PNF-9010R



WISENET P
PNM-9320VQP



WISENET P
PNO-9080R



WISENET P
PNP-9200RH

Description	12M 4K Fisheye Camera	10MP to 22MP Multi-directional + PTZ Network Camera	12M 4K Network IR Bullet Camera	4K PTZ Network Dome Camera
Lens	2.1mm fixed lens	4.44~142.6mm (Optical 32x) lens	4.5 ~ 10mm (2.2x) motorized varifocal lens	4.8 ~96mm (Optical 20x)
Infrared	Yes	No	Yes	Yes
Backlight Compensation	WDR (120dB)	WDR 150dB (2MP), 120dB (5MP)	WDR (120dB)	WDR (120dB)
Internal / External	Internal	External	External	External
Power	Max. 12W (PoE)	Max. 65W	Max. 10.43W (PoE)	Max. 60.0W/90.0W

WISENET X series



WISENET X
XNB-8000



WISENET X
XND-6011F



WISENET X
XND-6080R



WISENET X
XNF-8010R

Description	5M Network Box Camera	2M Network Dome Camera	2M Network IR Dome Camera	6M Sensor Fisheye Camera
Lens	N/A - lens not included	Built-in 2.8mm fixed lens	2.8 ~ 12mm (4.3x) motorized varifocal lens	1.6mm fixed lens
Infrared	No	No	Yes	Yes
Backlight Compensation	WDR (120dB)	WDR (150dB)	WDR (150dB)	WDR (120dB)
Internal / External	Internal	Internal	Internal	Internal
Power	Max.8.5W (PoE)	Max.4.7W, PoE / 12V DC	Max. 10W (PoE)	Max. 12W (PoE)



WISENET X
XNP-6120H



WISENET X
XNP-6370RH



WISENET X
XNV-6080R



WISENET X
XNV-6120

Description	2M 12x Network PTZ Dome Camera	2M 37x Network IR PTZ Dome Camera	2M Vandal-Resistant Network IR Dome Camera	2M Vandal-Resistant Network Dome Camera
Lens	5.2 ~ 62.4mm (12x) optical zoom, 32x digital zoom	6 ~ 222mm (37x), 16x digital zoom	2.8 ~ 12mm (4.3x) motorized varifocal lens	5.2 ~ 62.4mm (Optical 12X) Optical Lens
Infrared	No	No	Yes	No
Backlight Compensation	WDR (150dB)	WDR (120dB)	WDR (150dB)	WDR (150dB)
Internal / External	External	External	External	External
Power	Max. 12W (PoE)	Max. 60W (24AV AC)	Max.12.95W (PoE)	Max. 7.8W (PoE)

WISENET Q series



WISENET Q
QND-6070R



WISENET Q
QNE-6080RV



WISENET Q
QNO-6020R



WISENET Q
QNV-7080R

Description	2M Network IR Dome Camera	2M Network IR Fisheye Camera	2M Network IR Bullet Camera	4M Vandal-Resistant Network IR Dome Camera
Lens	2.8 ~ 12mm (4.3x) varifocal lens	3.2 ~ 10mm (3.1x) motorized varifocal lens	Built-in 3.6mm fixed lens	2.8 ~ 12mm (4.3x) motorized varifocal lens
Infrared	Yes	Yes	Yes	Yes
Backlight Compensation	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)
Internal / External	Internal	External	External	External
Power	Max. 7.0W (12V DC), Max.8.0W (PoE)	Max.8.3W (PoE), Max. 7.6W (DC12V/w)	Max.7.0W (PoE)	Max. 7.2W (PoE)

WISENET HD+ series



WISENET HD+
HCD-6070R



WISENET HD+
HCO-6080R



WISENET HD+
HCP-6230



WISENET HD+
HCV-6070R

Description	2M AHD Varifocal Dome Camera	2M AHD Motorised Varifocal Bullet Camera	2M AHD 23x Zoom Internal PTZ Camera	2M AHD Varifocal Vandal Dome Camera
Lens	3.2 ~ 10mm (3.1x) V/F lens	3.2 ~ 10mm (3.1x) motorized V/F lens	Powerful 23x Zoom (4.44 ~ 101.2mm)	3.2 ~ 10mm (3.1x) V/F lens
Infrared	Yes	Yes	No	Yes
Backlight Compensation	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)
Internal / External	Internal	External	Internal	External
Power	Max. 4.2W	Max. 3.5W	Max. 20.0W	Max. 4.2W

WISENET NVRs



WISENET P
PRN-4011



WISENET X
XRN-1610S



WISENET X
XRN-2010



WISENET X
QRN-1610S

Description	64CH H.265 Network Video Recorder	16CH Network Video Recorder with PoE Switch	32CH Network Video Recorder	16Ch Network Video Recorder with built-in PoE Switch
Max. Recording Bit Rate	400Mbps network camera recording	180Mbps network camera recording	256Mbps network camera recording	128Mbps network camera recording
Max. # of Cameras	64	16	32	16
Internal Storage	Max. 12 internal HDDs(96TB)	Max. 4HDDs, e-SATA storage supported	Max. 8 internal HDDs (48TB), e-SATA / iSCSI storage support	Up to 2 SATA (Max.12TB)
Features	ARB & Failover (N+1) support	Plug & play by 16 PoE/PoE+ ports	ARB & Failover (N+1) support	Plug & play by 16 PoE ports, ARB supported

Controller/Encoder/Decoder

Controller / Encoder / Decoder



SPC-2000



SPC-2010



SPE-1610

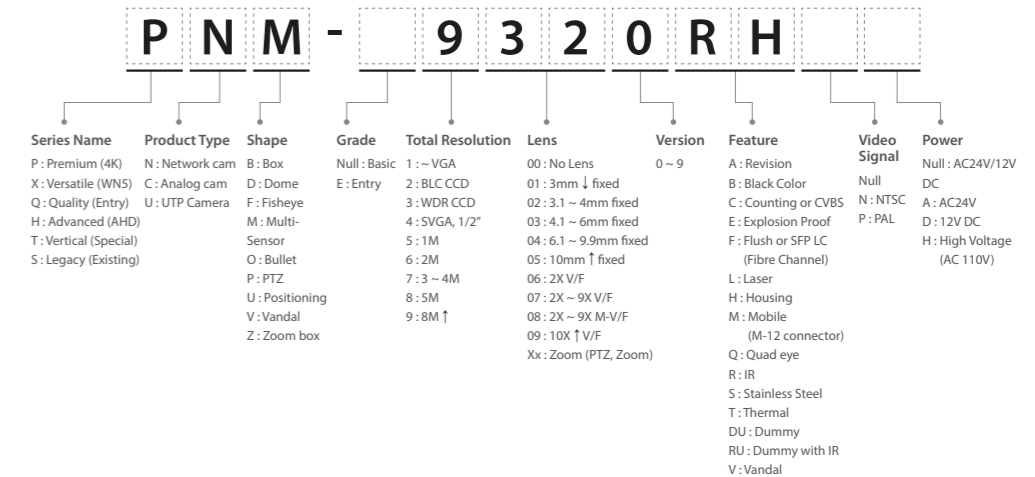


SPD-150

Features	<p>Network Controller</p> <ul style="list-style-type: none"> Superior System Compatibility 3D Joystick Control Quick and Easy Installation SSM Support 	<p>PTZ / DVR System Controller</p> <ul style="list-style-type: none"> Control up to 255 PTZ Cameras / DVRs Built-in 3 Axis Twist Zoom Joystick Built-in Jog Shuttle 16 x 2 Character LCD Display RS-485 and RS-422 Interface 	<p>16CH Network Video Encoder</p> <ul style="list-style-type: none"> Max. 4MP resolution Max. 15fps@4MP, 30fps@1080p H.264, MJPEG-4 codec support Dual streaming (up to 3 profiles per CH) 10/100/1000 Base-T 	<p>48CH Network Video Decoder</p> <ul style="list-style-type: none"> Video decoding up to 48 cameras (HDMI and VGA) 1 Camera decoding on BNC Clone & Expand mode support (HDMI, VGA) Max. 4K resolution@HDMI, Max. 1080p@VGA Decode video stream@12MP, 8MP, 5MP, 3MP, 1080p, 720p, 4CIF H.265, H.264, MJPEG codec support Various view mode, Halfway View Configuration export / import Upgrade using USB 12V DC, PoE
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Product naming guide

Camera



Recorder

