

# 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)

HIGH END

ENTRY

All ranges are available in the forms below:



\*available in all ranges but HD+

## Why Choose Wisenet?

- We make our own proprietary 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-9020V



WiseNET P  
PNO-9080R



WiseNET P  
PNP-9200RH

Description	12M 4K Fisheye Camera	7.3M Multi-sensor 180° Panoramic Camera"	12M 4K Network IR Bullet Camera	4K PTZ Network Dome Camera
Lens	2.1mm fixed lens	3.6mm fixed lens	4.5 ~ 10mm (2.2x) motorized varifocal lens	4.8 ~96mm (Optical 20x)
Infrared	Yes	No	Yes	Yes
Backlight Compensation	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)
Internal / External	Internal	External	External	External
Power	Max. 12W (PoE)	Max. 25.5W (PoE)	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 len	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  
QND-7010R



WiseNET Q  
QNO-6020R



WiseNET Q  
QNV-7080R

Description	2M Network IR Dome Camera	4M Network IR Dome Camera	2M Network IR Bullet Camera	4M Vandal-Resistant Network IR Dome Camera
Lens	2.8 ~ 12mm (4.3x) varifocal lens	Built-in 2.8mm fixed 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	Internal	External	External
Power	Max. 7.0W (12 V DC), Max 8.0W (PoE)	Max.7.0W (PoE)	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

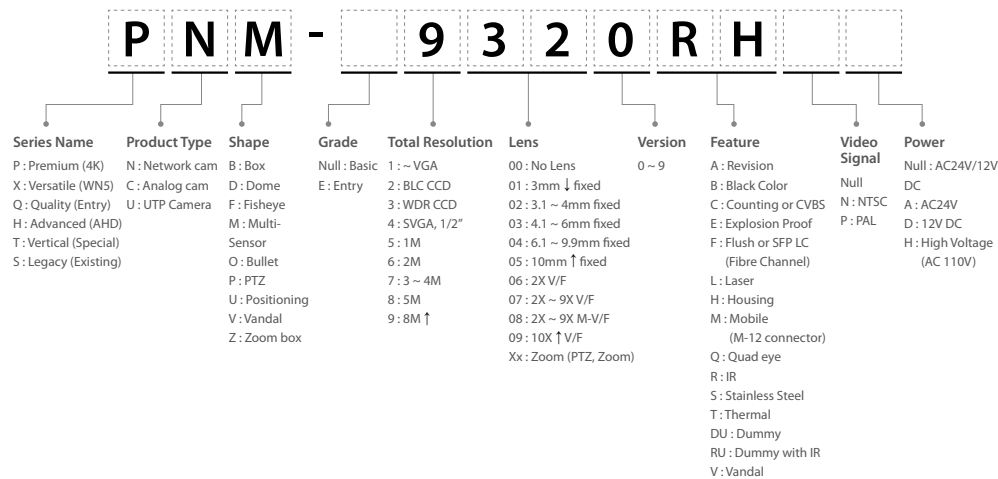
Description	64CH H.265 Network Video Recorder	16CH Network Video Recorder with PoE Switch	32CH Network Video Recorder
Max. Recording Bit Rate	400Mbps network camera recording	180Mbps network camera recording	256Mbps network camera recording
Max. # of Cameras	64	16	32
Internal Storage	Max. 12 internal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

Controller/PoE Extenders

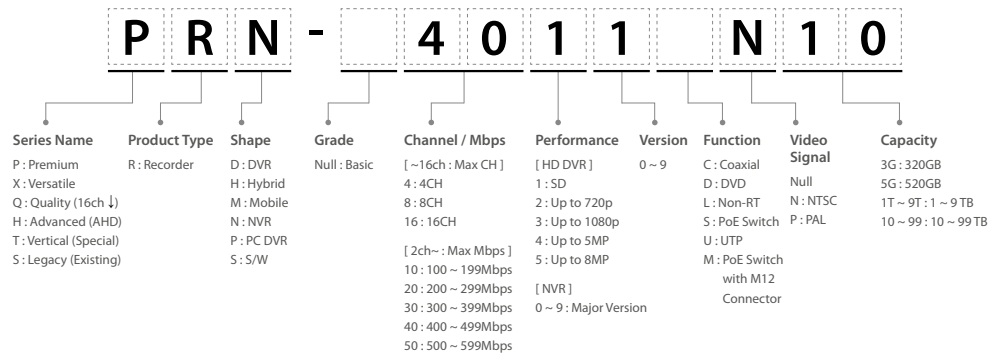
Controller / PoE Extender			
			
	SPC-7000	SPC-2000	SPC-2010
Features	Network/Anlaog Cameras / NVR / DVR / SSM Controller <ul style="list-style-type: none"><li>5" TFT Touch LCD</li><li>Network Camera / SSM / Analog Camera / DVR Control</li><li>User-Friendly Design and Easy-to-Use Keypad</li><li>3 Axis Joystick to Control PTZ Function</li><li>Detachable Joystick / Jogshuttle for Universe Use (Right / Left Hand Use)</li><li>USB Interface Support (1ea for SSM, 1ea for Image Snapshot / Upgrade)</li><li>Fast Camera-Tile Mapping, Config Import / Export</li></ul>	Network Controller <ul style="list-style-type: none"><li>Superior System Compatibility</li><li>3D Joystick Control</li><li>Quick and Easy Installation</li><li>SSM Support</li></ul>	PTZ / DVR System Controller <ul style="list-style-type: none"><li>Control up to 255 PTZ Cameras / DVRs</li><li>Built-in 3 Axis Twist Zoom Joystick</li><li>Built-in Jog Shuttle</li><li>16 x 2 Character LCD Display</li><li>RS-485 and RS-422 Interface</li></ul>

Product naming guide

Camera



Recorder



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. chose a solution that suits your business needs; Cloud - Desktop- Mobile - Server.

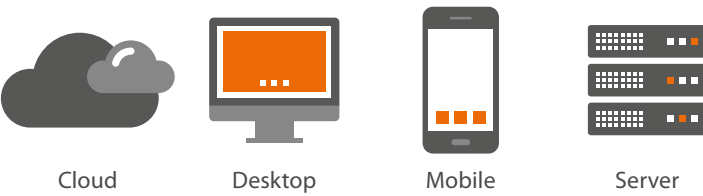
Wisenet WAVE has full SUNAPI 2.0 integration for WISENET cameras and recorders.

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 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 monitoing from Cloud application
- Specific reactions for listed cars (black/white list)
- Get notified on listed vehicle appearance
- Live monitoring
- Parking lots management
- Identify frequent visitors and know their profile
- Traffic density
- Average traffic speeds across day, week, month
- Density, speeding, traffic-jam visualisation
- Plate switching, trespassing
- Bus lane monitoring
- Street parking violations

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



# 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**
- Stopped Vehicle
- Slowdown and Congestion/Queue
- Wrong Way Driver
- Pedestrian
- Smoke / Low Visibility
- **Traffic data collection for statistical purpose**
- Vehicle Counting and Classification
- Traffic Density
- Average Speed
- Origin/Destination Matrix



# Notes

# Wisenet Retail Intelligence Solution

## From small convenience store to superstore

### People Counting

- Hourly / Weekly reports
- Performance
- Customer patterns
- Visitor breakdowns
- Occupancy
- Dwell time
- POS Integration
- Lost Opportunity

### Heat Mapping

- Dwell time estimates
- Hot spots
- Regional time occupancy
- Customer Estimate

### Queue Management

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

### Live Dashboard Reports with server software

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



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