

WISENET 7



End-to-End Cyber security

Wisenet7 lineup offers next level Cyber security with the industry's highest levels of Cyber security policy which satisfies the stringent UL CAP standards and Secure by Default.

Realistic image without image distortion

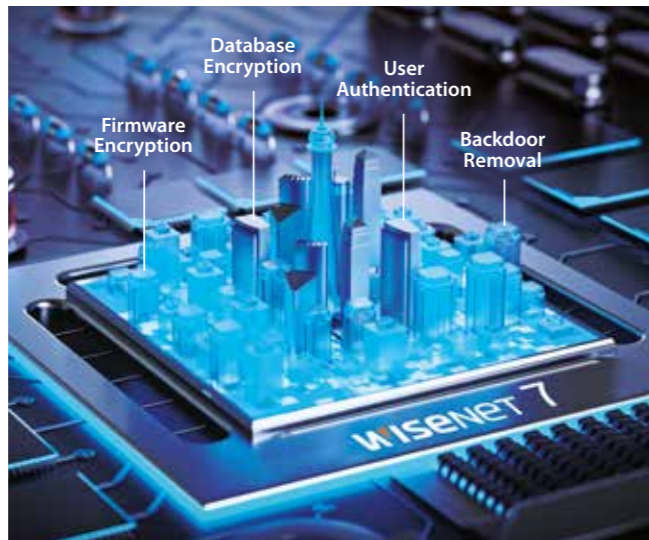
Wisenet7 lineup perfectly corrected wide-angle lens distortion to overcome the limitations of conventional cameras. It generates advanced images as seen by the human eye, without lens distortion, despite being equipped with a wide-angle lens.

Licence-free Onboard Video and Audio Analytics

Wisenet7's onboard video and audio analytics suite is completely licence-free and includes face and torso detection, intelligent motion analytics, and audio classification for gunshots, explosions, screams, and breaking glass. Analytics events can be used to trigger alarms as well as audio playback as a response.

extreme WDR's enhanced noise reduction technology

Wisenet7 lineup applied improved local contrast enhancement technology to provide a clearer and sharper image. Overcoming limitations that may occur from the existing multi-frame integration method, it optimises contrast so that objects can be clearly identified even in the environments with strong backlight.



Exceptional 4K Resolution

Wisenet7 camera devices provide clear and vivid images in resolutions of up to 4K suitable for forensic search applications.

Sharper images with enhanced noise reduction technology

Wisenet7 lineup minimises motion blur and artifacts in low-light environments. Hanwha Techwin's outstanding noise reduction technology significantly reduced video noise compared to conventional cameras. Maximized expression of edges and colours allows identification of object details even in low-light environments.

Solutions

As customer needs have diversified and become more sophisticated, the video surveillance industry has needed to match those changes by customising its products. Working closely with end-users, system integrators, consultants and technology partners, Hanwha Techwin has been able to analyse customer pain points and develop customised solutions which solve real-life problems. Hanwha Techwin understands that there is a need for specific solutions for each vertical market, rather than just general-purpose security products. With technological expertise spanning hardware design, manufacturing and software development, and in partnership with carefully selected technology solution providers, we are able to offer vertical solutions backed up by proven product reliability and the highest possible levels of pre and post sales service.



Our Solution Partners



Intelligent video surveillance and video analytics solutions dedicated to the transport industry.



Intelligent security AI solutions on EDGE ideal for smart city and parking applications.



Innovative and advanced video analytics solutions in the field of Artificial Intelligence and Artificial Vision.



AI-based video analytics for smart and safe cities.



Video and data analytics specialists in retail, banking, and other high footfall venues.

WISENET

PRODUCTS & SOLUTIONS OVERVIEW



About Hanwha Techwin

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 range featuring AI cameras | |
| 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 T series | Specialised Cameras for Challenging Conditions | |

Wisenet ranges are available in the forms below:



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

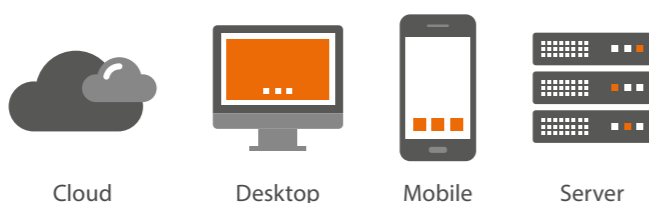
The most intuitive, easy to use and powerful VMS

- 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

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 solutions

With technological expertise spanning hardware design, manufacturing and software development, and in partnership with carefully selected technology solution providers, we are able to offer industry-specific solutions which solve real-life problems.



WISENET

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Why Choose Wisenet?

- We make NDAA compliant products and solutions
- 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
PNM-9085RQZ



WISENET P
PNM-9322VQP



WISENET P
PNO-A9081R



WISENET P
PNM-9022V

| Description | 20MP IR PTRZ Multi-directional Camera | Max. 20MP Multi-directional + 2MP 32x PTZ | 4K AI IR Bullet Camera | 2MP x 4CH Panoramic 209" Camera |
|------------------------|---|--|--|--|
| Lens | 4 x 4.13~9.4mm(2.3x) motorized varifocal lens | 1~4CH:2MP/5MP optional lens module 5CH:4.44~142.6mm(32x) zoom | 4.5~10mm(2.2x) motorized varifocal | 4 x 2.8mm fixed focal |
| Infrared | 30m | - | 30m | - |
| Backlight Compensation | WDR (120dB) | 150dB (2MP), 120dB (5MP) | WDR (120dB) | WDR (120dB) |
| Certification | IP66, IK10, NEMA4X | IP66, IK10 | IP66/IP67, IK10, NEMA4X | IP66, IK10, NEMA4X |
| Power | HPoE: Max. 45 W, Typical 33.7 W 12VDC: Max. 42 W, Typical 32 W | HPoE: Max 65W, Typical 34W | PoE+: Max 20.0W, typical 17.00W 12VDC: Max 18.00W, typical 16.00W | PoE+: Max 18W, Typical 10.4W 12VDC: Max 16W, Typical 9W |

WISENET X series



WISENET X
XNB-8002



WISENET X PLUS
XNV-9082R



WISENET X PLUS
XND-8082RV



WISENET X
XNF-9010RV

| Description | 6MP Network Box Camera | 4K Network IR Vandal Dome Camera | 6MP Network IR Dome Camera | 12MP IR Fisheye Camera |
|------------------------|---|---|--|--|
| Lens | - | 2.8~8.4mm(3x) motorized varifocal | 2.8~8.4mm(3x) motorized varifocal | 1.08mm fixed focal |
| Infrared | - | 40m | 40m | 10m |
| Backlight Compensation | extreme WDR (120dB) | extreme WDR (120dB) | extreme WDR (120dB) | extreme WDR (120dB) |
| Certification | - | IP66/IP67/IP6K9K, IK10+, NEMA4X | IP52, IK10 | IP66, IK10, NEMA4X |
| Power | PoE: Max 12.95W, typical 8.2W 12VDC: Max 11.5W, typical 7.5W 24VAC: Max 13.5W, typical 8.9W | PoE: Max 12.95W, typical 10.7W 12VDC: Max 11.5W, typical 9.0W 24VAC: Max 13.5W, typical 11.0W | PoE: Max 12.95W, typical 10.7W 12VDC: Max 11.5W, typical 9.0W | PoE: Max 12.95W, typical 11W 12VDC: Max 11W, typical 9.1W |



WISENET X
XNV-6085



WISENET X PLUS
XNP-9300RW



WISENET X PLUS
XNV-6081R



WISENET X
XNO-6120R

| Description | 2MP Vandal Dome Camera (extra LUX) | 4K Network 30x IR PTZ - built-in wiper | 2MP IR Vandal Dome Camera | 2MP IR Zoom Bullet Camera |
|------------------------|--|--|---|---|
| Lens | 4.1 ~ 16.4mm (4x) motorized varifocal | 5~150mm(30x) optical zoom | 2.8 ~ 12mm (4.3x) motorized varifocal | 5.2 ~ 62.4mm (Optical 12x) |
| Infrared | - | 200m | 50m | 70m |
| Backlight Compensation | WDR (150dB) | extreme WDR (120dB) | WDR (150dB) | WDR (150dB) |
| Certification | IP67, IP66, NEMA4X, IK10 | IP66, IK10, NEMA4X, NEMA-TS 2 (2.2.8, 2.2.9) | IP66, IP67, IK10+, NEMA4X | IP67, IP66, NEMA 4X, IK10 |
| Power | PoE: Max 12.1W 12VDC: Max 11.1W 24VAC: Max 13.5W | HPoE: Max 42W, typical 20W | PoE: Max 12.95W 12VDC: Max 10.8W 24VAC: Max 13.3W | PoE: Max 12.95W 12VDC: Max 12.5W 24VAC: Max 14.5W |

WISENET Q series



WISENET Q mini
QND-6021



WISENET Q mini
QNF-9010



WISENET Q
QNO-6022R



WISENET Q
QNV-8080R

| Description | 2MP Dome Camera | 12MP Network Fisheye Camera | 2MP IR Bullet Camera | 5MP IR Vandal Dome Camera |
|------------------------|-----------------------------|-----------------------------|--|---------------------------------------|
| Lens | 4mm fixed | 1.08mm fixed focal | 4mm fixed | 3.2 ~ 10mm (3.1x) motorized varifocal |
| Infrared | - | - | 25m | 30m |
| Backlight Compensation | WDR (120dB) | WDR (120dB) | WDR (120dB) | WDR (120dB) |
| Certification | IP42, IK08 | IP42 | IP66, IK10 | IP66, IK10 |
| Power | PoE: Max 4.8W, typical 2.8W | PoE: Max 7.7W, typical 6.4W | PoE: Max 7W, typical 5.2W 12VDC: Max 6.1W, typical 4.5W | PoE: Max 8.9W, typical 6.6W |

WISENET HD+ series



WISENET HD+
HCD-6070R



WISENET HD+
HCO-6080R



WISENET HD+
HCP-6320A



WISENET HD+
HCV-6080R

| Description | 2M AHD Varifocal Dome Camera | 2M AHD Motorised Varifocal Bullet Camera | 1080p HD 32x PTZ Camera | 2M AHD Varifocal Vandal Dome Camera |
|------------------------|----------------------------------|--|------------------------------|---------------------------------------|
| Lens | 3.2 ~ 10mm (3.1x) varifocal lens | 3.2 ~ 10mm (3.1x) motorized varifocal lens | 4.44 ~ 142.6mm (Optical 32x) | 3.2 ~ 10mm (3.1x) motorized varifocal |
| Infrared | 20m | 30m | - | 30m |
| Backlight Compensation | WDR (120dB) | WDR (120dB) | WDR (120dB) | WDR (120dB) |
| Certification | - | IP66, IK10 | IK10 (With SHP-3701H) | IP66, IK10 |
| Power | Max. 4.2W | Max. 3.5W | 24VAC: Max 20.0W | Max. 5.8W |

WISENET NVRs



WISENET P
PRN-6410DB4



WISENET X
XRN-3210B4



WISENET X
XRN-2010A



WISENET X
XRN-1610SA

| Description | 64CH AI NVR | 32CH NVR | 32CH 12MP NVR | 16CH 12MP NVR |
|-------------------------|--|---|---|--------------------------|
| Max. Recording Bit Rate | Max. 400Mbps | Max. 400Mbps | 256Mbps | 180Mbps |
| Max. # of Cameras | 64 | 32 | 32 | 16 |
| Internal Storage | SATA 16ea(Max. 160TB, Non-RAID mode), Hot swap | SATA 16ea(Max. 160TB, Non-RAID mode), Hot swap | Up to 8 SATA (Max. 48TB) | Up to 4 SATA (Max. 24TB) |
| Features | Dual SMPS, AI search (BestShot, Attribute) | AI search support when working with Wisenet AI camera | ARB redundancy & Failover (N+1) supported | Wisenet supported |

WISENET T series



WISENET T
TNM-3630TDY



WISENET T
TNB-9000



WISENET T
TNV-8010C

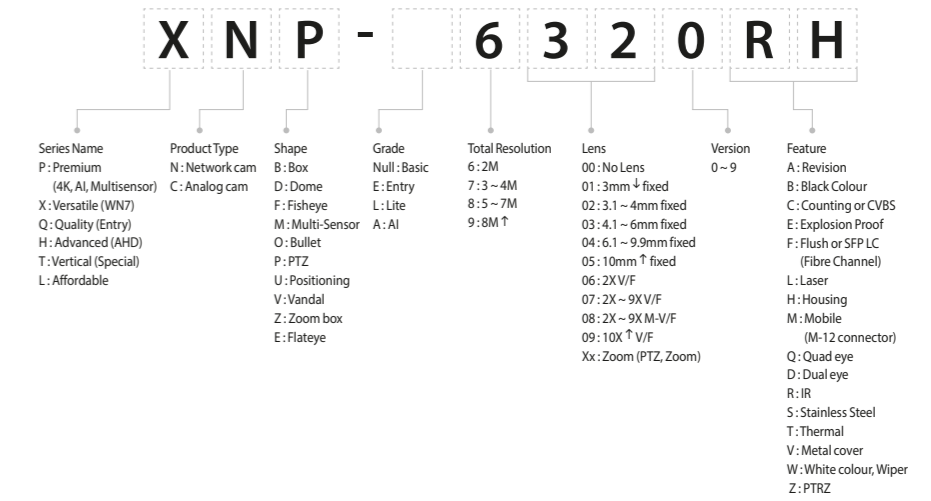


WISENET T
TNO-4050T

| Description | Bi-spectrum Temperature Detection Thermal Camera | 8K Box Camera | 5MP Corner Mount Camera | VGA Thermal Bullet Camera |
|------------------------|--|---|------------------------------|---|
| Lens | 4.7mm fixed (thermal), 4mm fixed (visible) | - | 2.3mm fixed | 35mm fixed |
| Colour Palettes | EBT Mode (thermal face detection) : Whitehot EBT (visible face detection) & Normal mode : Whitehot, Blackhot, Rainbow, Rainbow2, Sepia, Red, Iron, Custom | - | - | White hot, Black hot, Rainbow, Sepia, Red, Iron, Custom |
| Backlight Compensation | extreme WDR (150dB) visible only | DWDR | WDR (120dB) | - |
| Power | PoE+: Max. 17.0W, typical 12.5W 12VDC: Max. 14.5W, typical 11.0W | HPoE: Max 30W, typical 20W 12VDC: Max 26W, typical 18W | PoE: Max 6.49W, typical 4.6W | PoE: Max 10W, 12VDC: Max 9W |
| Features | AI based face and temperature detection analytics | Intelligent video analytics based on AI | Anti-ligature design | Various colour palettes |

Product naming guide

Camera



Recorder

