



2023

# PRODUCT LINE-UP



# Hanwha Group

**Hanwha Vision** is one of **Hanwha** Groups' affiliates.

**Hanwha** Group, founded in 1952, is one of the Top-Ten business group in South Korea and a "FORTUNE Global 500" company.

**Hanwha** Group has 76 domestic affiliates and 351 global networks in three major sectors: manufacturing and construction, finance, and services and leisure. With more than 60 years track record of industrial leadership, **Hanwha** provides a range of products and services that enhance the quality of life for customers.

## Products & Services

**Aerospace & Mechatronics**

**Financial Services**

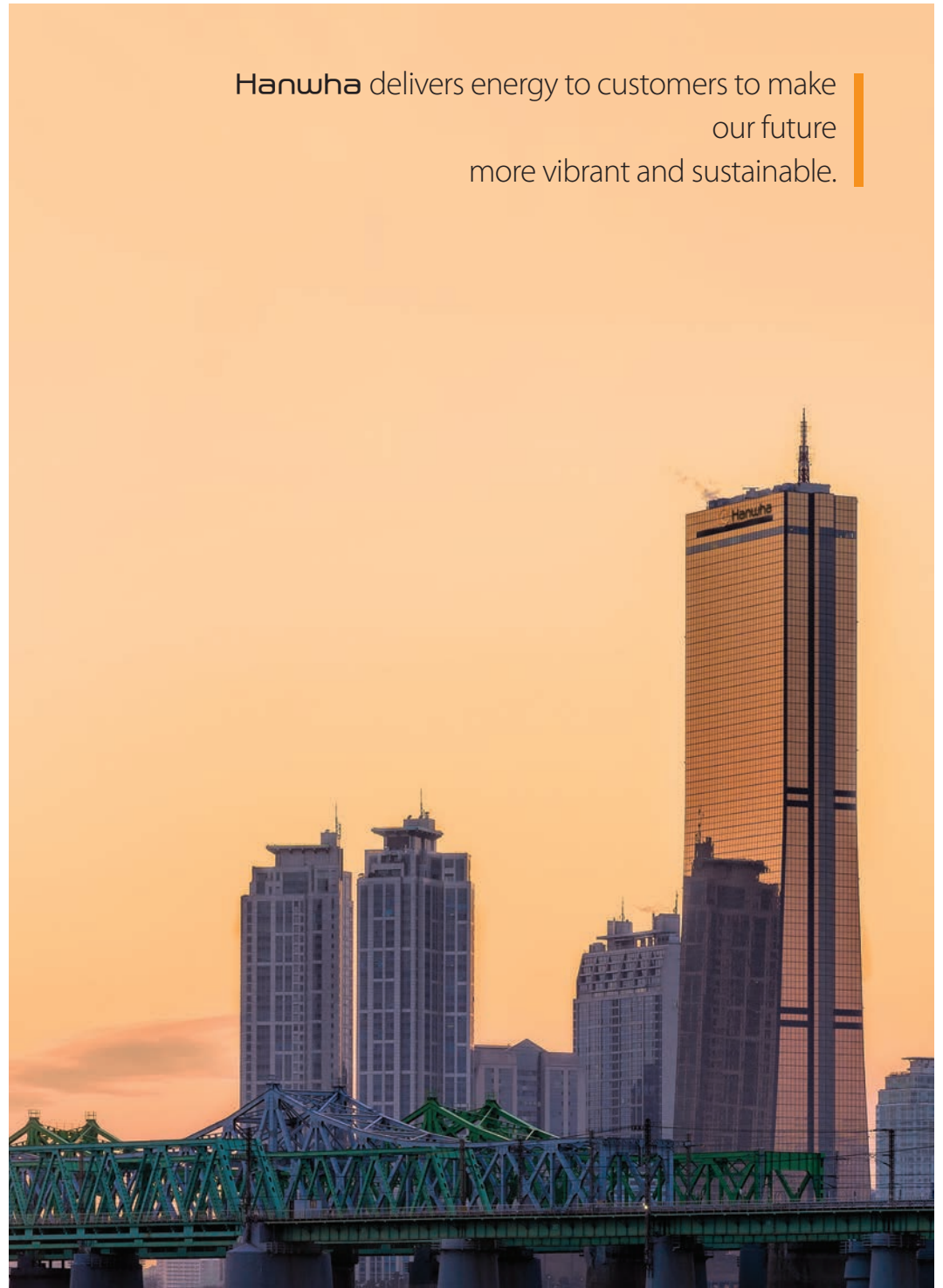
**Solar Energy**

**Leisure & Lifestyle**

**Chemicals & Materials**

**Construction**

Hanwha delivers energy to customers to make  
our future  
more vibrant and sustainable.



Hanwha Vision brings you security solutions that deliver values beyond safety.



With over 30 years in the video-surveillance business, **Hanwha Vision** is a top-tier global security company through its world-class optical, manufacturing and image processing technologies.

As the world shifts to the Fourth Industrial Revolution, we are leading the market with next-generation technologies, such as Deep Learning, Artificial Intelligence (AI) and Business Intelligence (BI) and able to offer solutions tailored to meet various vertical-market requirements.

Providing cybersecurity that customers can trust and rely on, we offer total security solutions which provide high satisfaction and value, as well as real-life practical benefits.

**Hanwha Vision** will continuously strengthen its development and marketing investments in the security business to drive future growth.

## History

### 2013 ~ Current

- **2021** - Winner of Security Today New Product of the Year for Video Surveillance AI Cameras (PNV-A6081R)
- **2021** - The New X series AI cameras (X Core, X Plus) launched
- **2020** - Hanwha Techwin's 30th anniversary, Wisenet7 SoC launched
- **2019** - Acquired Cybersecurity certification 'Secure by Default' from UK government
- **2018** - Hanwha Techwin Vietnam manufacturing subsidiary established
- **2017** - Winner of IF Design Award, Red Dot Design Award
- **2017** - Wisenet V SoC and Wisenet X camera series launched
- **2015** - Hanwha Techwin is formed by strategic acquisition by Hanwha Group
- **2015** - Winner of Red Dot Design Award
- **2015** - Wisenet Lite series launched
- **2013** - Wisenet III SoC and camera series launched

### 1990 ~ 2012

- **2012** - Winner of Red Dot Design, CES Innovation Award
- **2012** - World's first 37X IR PTZ camera launched
- **2011** - B2C business began
- **2009** - Hanwha Techwin Tianjin and Shanghai subsidiaries established
- **2008** - Korea's first 37X optical AF PTZ camera launched
- **2004** - Winner III analog ISP chip developed
- **2001** - Hanwha Techwin Europe subsidiary established
- **1997** - World-class ultra low-light surveillance camera launched
- **1993** - Korea's first auto-iris lens for CCTV cameras developed
- **1990** - Video surveillance business established

## Engineered in Korea

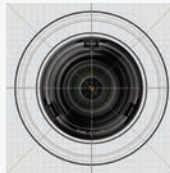
Hanwha Vision's R&D (Research and Development) Center, is located in Pangyo Techno Valley, Gyeonggi-do, South Korea. The large R&D complex, which is focused on state-of-the-art technology and innovation, is also a home to many other of Korea's world leading companies. In the middle of the R&D hub, **Hanwha Vision** is developing a variety of advanced technologies helping to drive the global video surveillance industry toward the future.

### Core Technologies

Based on long-established optical and image-processing technologies, Hanwha Vision has competitive edge not only in optical lenses but also in SoC cameras chipset development. As technologies become more advanced and security solutions are leveraged across all areas of life, the role of security goes beyond just monitoring. It is now being utilized in many other ways in order to fulfill the growing market demand for built-in analytics capabilities and intelligent functionality. In order to provide agile response to such trend, Hanwha Vision will strive to achieve technological advancement by developing deep-learning and AI solutions.

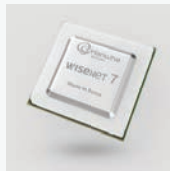
#### 01. Optical design technology

Based on world class optical and image processing technologies, Wisenet provides high precision and resolution cameras.



#### 02. SoC design technology

Outstanding level of SoC (System on Chip) design capabilities evident in our Wisenet SoC are also equipped with diverse analytics technologies.

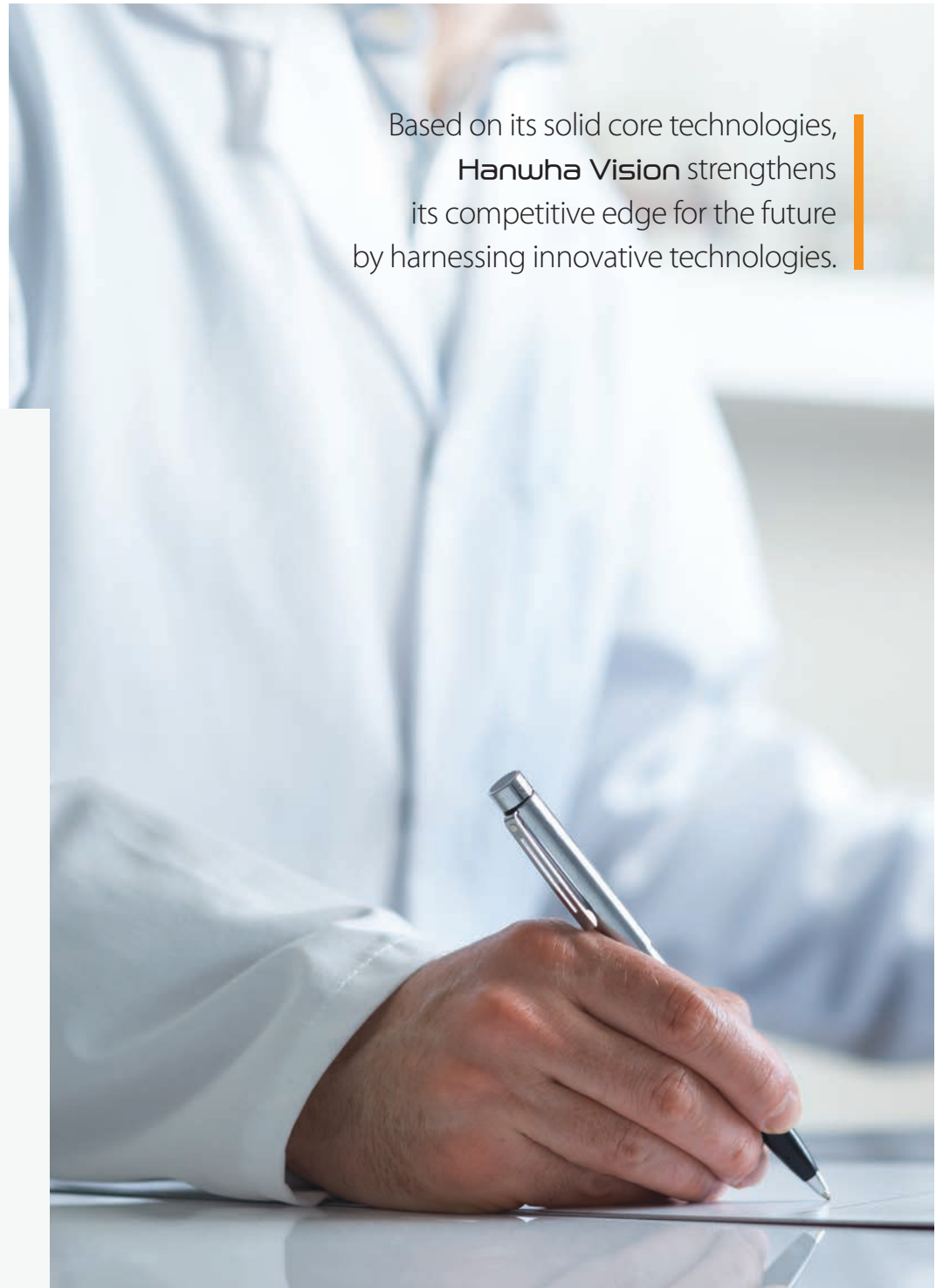


#### 03. Intelligent Analytics technology

Hanwha Vision provides exclusive solutions for intelligent analytics thanks to its unique analytics algorithms.



Based on its solid core technologies, **Hanwha Vision** strengthens its competitive edge for the future by harnessing innovative technologies.



To ensure  
24/7 reliability of our products,  
we added smart manufacturing system  
to our top technologies.



## High-tech Powered in Vietnam

**Hanwha Vision's** manufacturing subsidiary in Vietnam (HTSV) has been in operation since 2018 in order to expand its global production capability as well as to strengthen cost competitiveness. Through automation and smart systems, **Hanwha Vision** has built sophisticated and fast-moving manufacturing lines producing all its product line-ups including cameras and storage devices. All products produced in HTSV go through a reliable manufacturing and quality assurance process and sold globally, these products represent 85% of **Hanwha Vision's** total sales.

## End-to-end Cybersecurity

**Hanwha Vision** offers cybersecurity with the industry's highest levels of cybersecurity policy with secure boot/OS/storage, a signed firmware/open platform app, secure JTAG and more.

**Hanwha Vision** established its own device certificate issuing system to embed certificates into the product not only in the development progress but also in the manufacturing progress.



- **Hanwha Vision** Private Device Certification Root CA
- UL CAP, Secure by Default certified, TPM 2.0 (FIPS 140-2)
- Secure Boot, Secure Storage, Secure OS
- Secure Open Platform
- S-CERT : Security Computer Emergency Response Team  
Please contact S-CERT by e-mail ([secure.cctv@hanwha.com](mailto:secure.cctv@hanwha.com))

\* Please ask your local representative for UL CAP, Secure by Default, TPM 2.0 applied products

# Next level of Cybersecurity



# The New X series AI camera X PLUS/X Core lineup

## AI-Enhanced X series Cameras

Object detection

Edge-based business intelligence

Improved image quality

Next level cybersecurity

User convenience

Reinforced durability

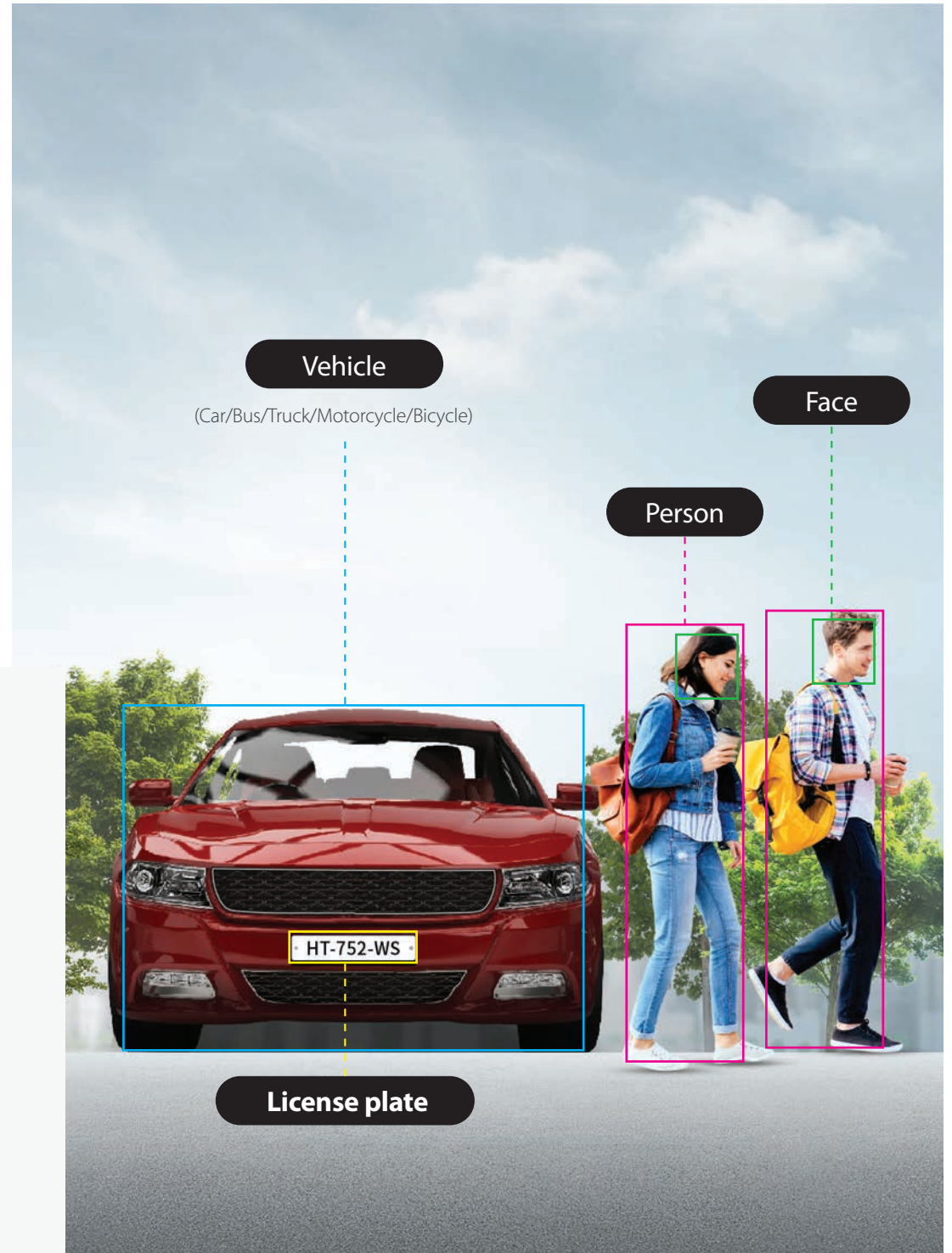
Featuring **Hanwha's** advanced artificial intelligence (AI) and deep-learning technologies, the New X series cameras offer industry-leading AI-based object detection for false alarm reduction analytics, AI-enhanced image quality and edge-based business intelligence.

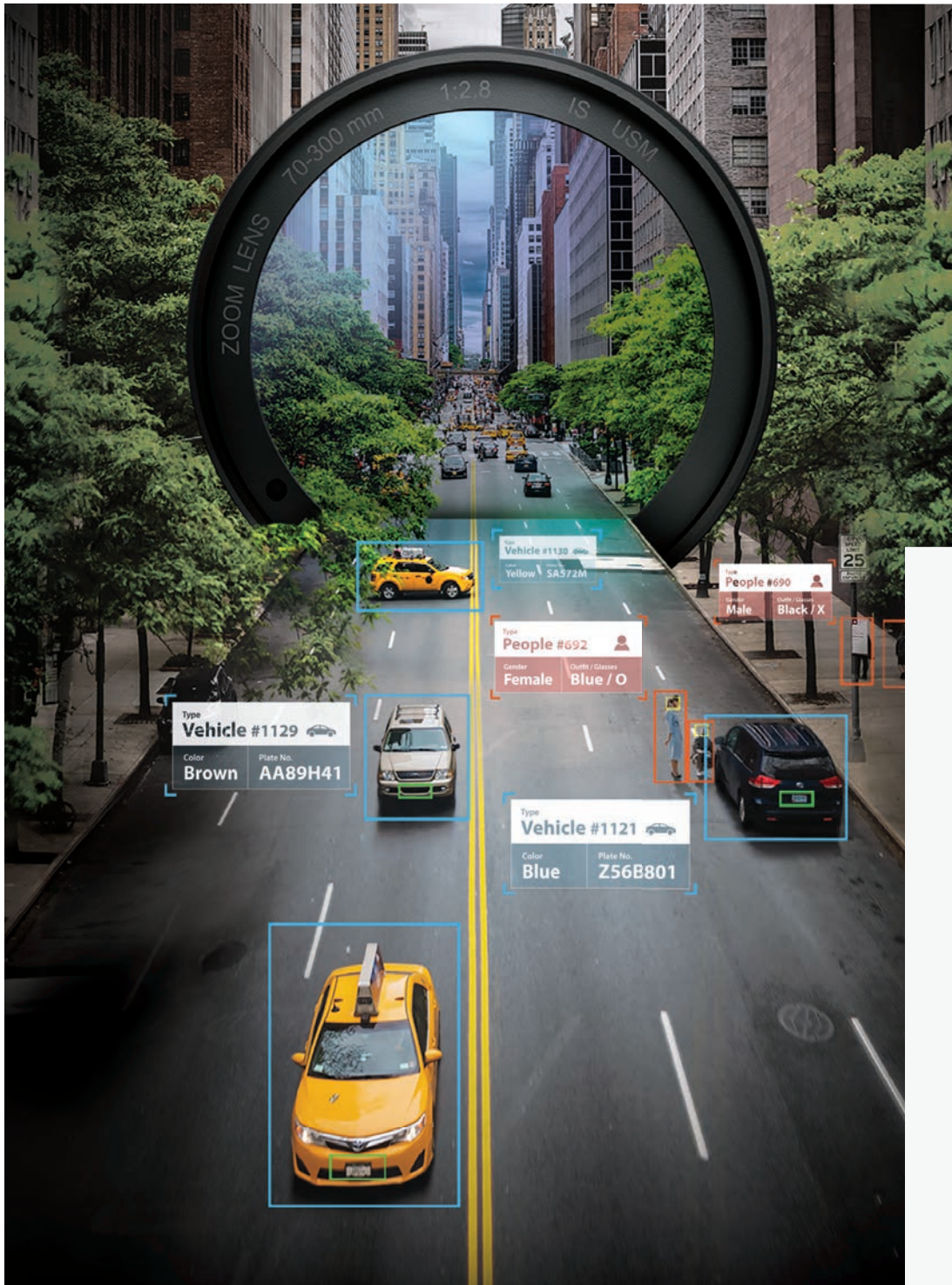
### X PLUS

XNO-9083R/8083R/6083R  
XNV-9083R/8093R/8083R/6083R  
XNV-6083RZ/8083RZ/9083RZ  
XND-9083RV/8093RV/8083RV/6083RV  
XNB-9003/8003/6003

### X Core

XNO-C9083R/C8083R/C7083R/C6083R  
XNV-C9083R/C8083R/C7083R/C6083R  
XND-C9083RV/C8083RV/C7083RV/C6083RV





# P series AI Camera & NVR

Precise Object Detection & Classification with AI

Person

Face

Vehicle

License plate

Equipped with a powerful artificial intelligence (AI) engine that detects and classifies people and vehicles in real time, Wisenet P series AI cameras are designed to accurately capture the unique attributes of objects such as faces and license plates, whilst reducing false alarms caused by waving trees, video noise, and even shadows. It enables operators to quickly and efficiently search for specific events or objects with defined attributes.



AI Camera Series 4K 2MP

PNO-A9081R/A6081R, PNV-A9081R/A6081R, PND-A9081RV/A6081RV, PND-A9081RF/A6081RF, PNB-A9001/A6001

\* See more at P16 - P28



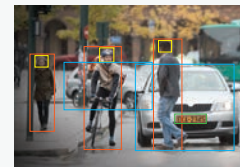
AI NVR Series

PRN-3200B4/3200B2/1600B2

\* See more at P79

## Wisenet AI Camera

Detect and classify objects real-time

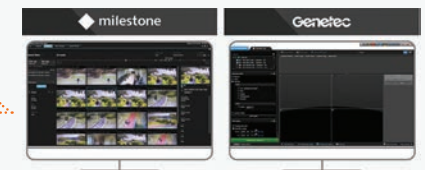


VMS Plug-in for improved AI search

\* Person, face, vehicle, license plate

## Wisenet AI Search

Quickly search based on attributes



\* AI plug-ins offer seamless integration with VMS from Milestone and Genetec



# Q series AI Camera

Expand Q series with built-in AI

- AI based Person, Vehicle detection
- AI based directional detection, loitering
- WiseNR<sup>II</sup>, SSNR<sup>V</sup>, WiseStream<sup>III</sup>



AI Camera Series

QNV-C9083R, QNV-C8083R, QNV-C9011R/ C8011R/ C8012,  
QNO-C9083R, QNO-C8083R



# PTZ PLUS

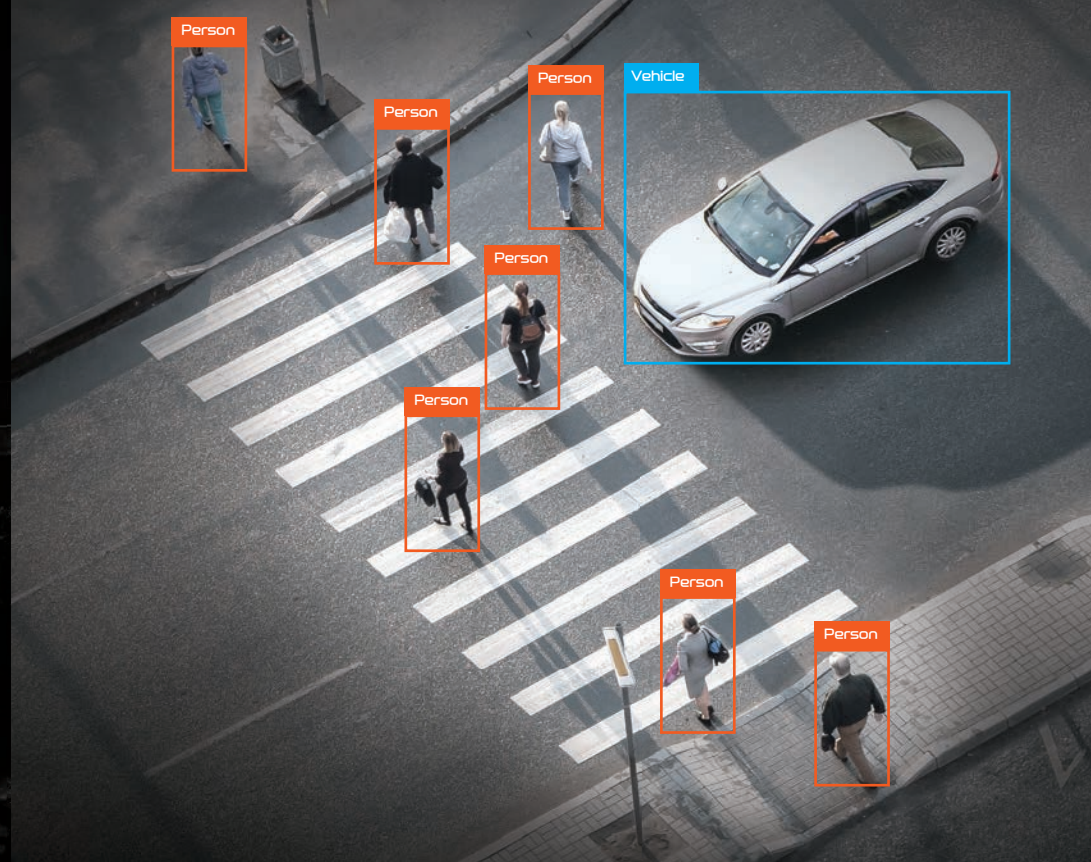
New Generation PTZ

## Clearer image with Wisenet IR

- Monitor and Identify objects with optical 40x, 30x, 25x Zoom
- Up to 200 meters with Wise IR
- Enhanced Preset Accuracy  $\pm 0.1^\circ$   
Quick Pan, Tilt correction (within 1 second)
- Easy and Safe Installation with Compact Design and Lighter Camera
- AI Deep learning based Object Auto Tracking  
(Optional Target-Lock Tracking with right click)



\* 4K XNP-C9303RW, XNP-C9253R, XNP-C9253  
 \* 6MP XNP-C8303RW, XNP-C8253R, XNP-C8253  
 \* 2MP XNP-C6403RW, XNP-C6403R, XNP-C6403



Meet our **specialized** cameras equipped with powerful **AI**

Select the best fit camera for your special safety needs



Bi-Spectrum



TNM-C4940TD, C 4950TD, C4960TD



Dual Lens



PNM-C12083RVD, C7083RVD



12X Zoom



XNV-6123R, XNO-6123R

Touchless  
Network Intercom Station

**TID-600R**



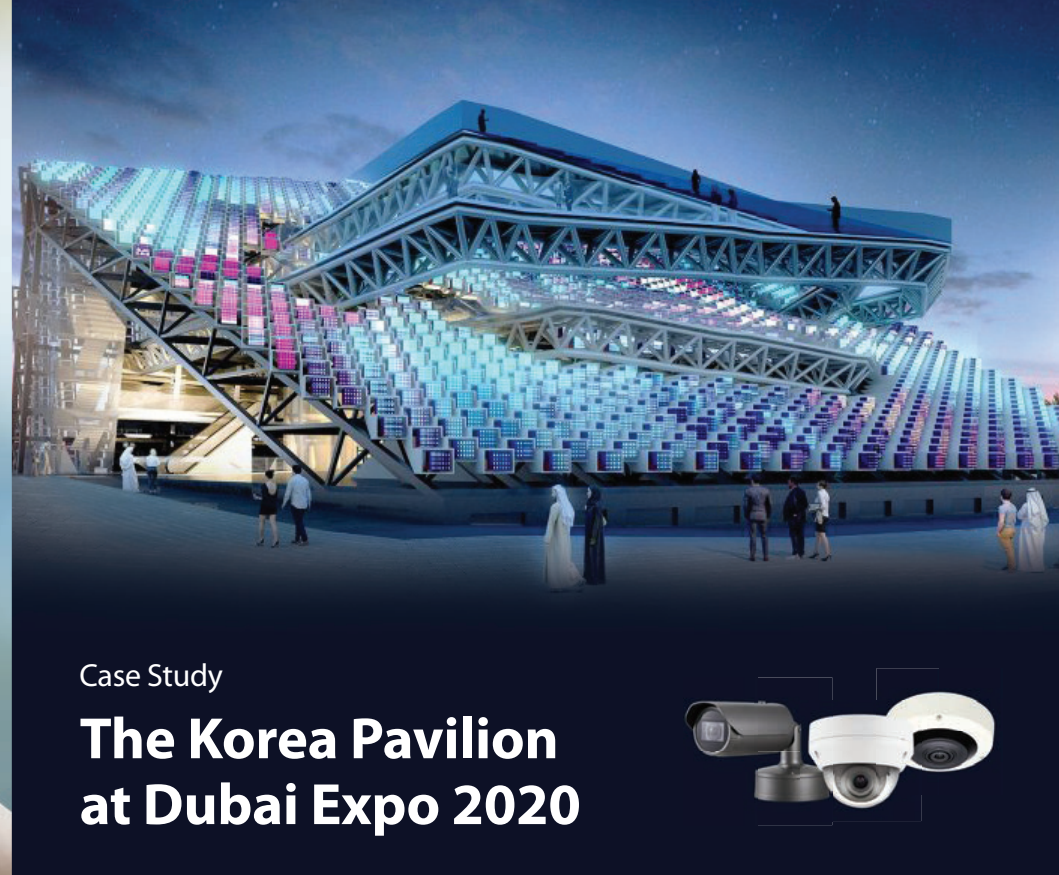
### Touchless call as an essential post COVID-19 protocol

The ToF sensor of TID-600R allows touchless call, where users simply present their palm within 6 inches of the station to initiate a call.



### Various mounting options for a greater versatility

With multiple mounting options, covers and skin, it fits perfectly with its surroundings.



Case Study

## The Korea Pavilion at Dubai Expo 2020



### Hanwha Vision's surveillance project for the Korea Pavilion

Challenge

- To secure safety of 25 million visitors in an effective and efficient way
- To improve visitors' experience by gathering their behavioral data

Solution

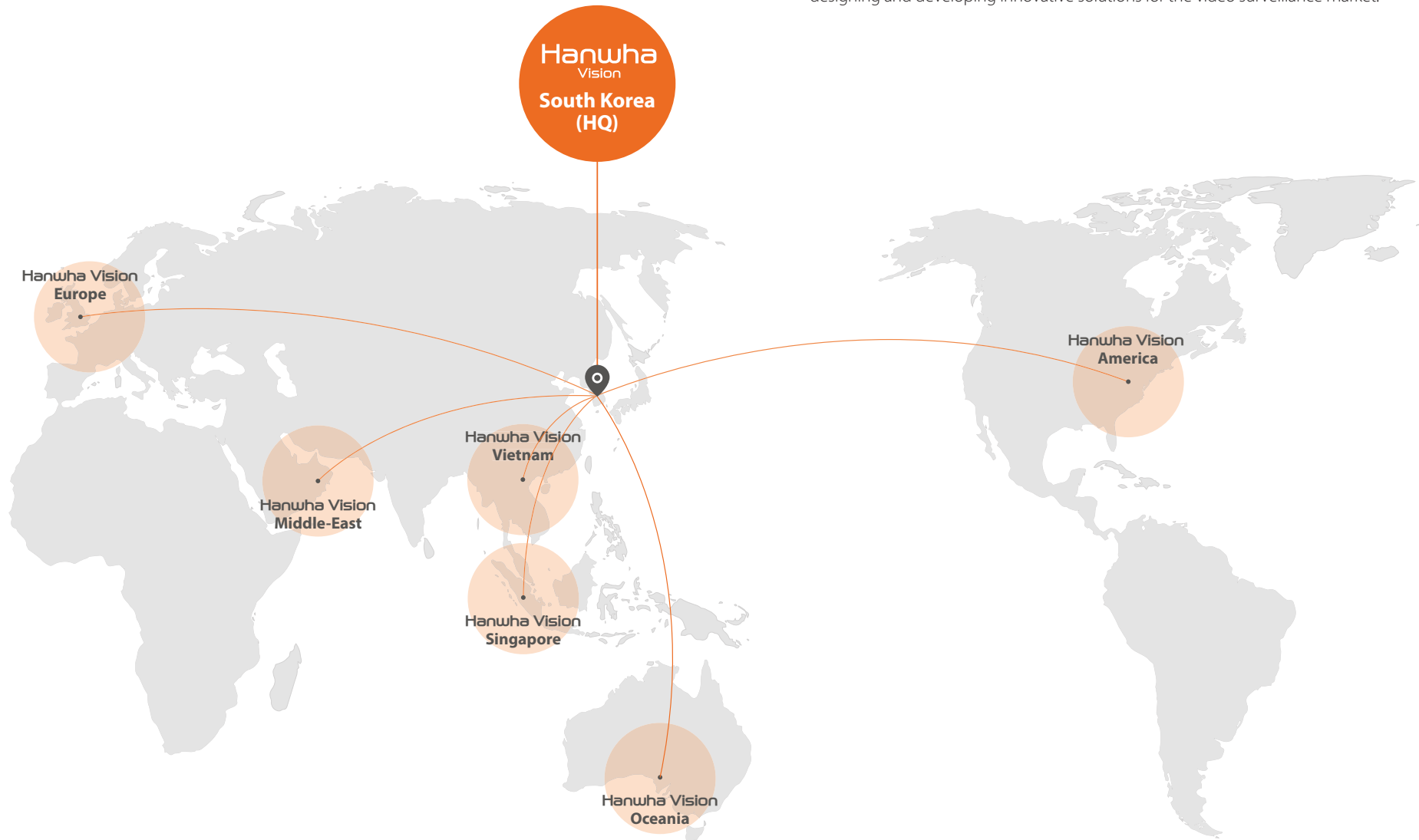
- End-to-end solutions ranging from cameras, recorders, VMS, peripherals and accessories
- XNF-8010R 6MP fisheye camera for high quality images of large space and visitors'statistical data
- For building interiors and exteriors, XNO-6080R and QNV-6072R with motion detection, as well as tampering and defocus detection

Result

- Reduced installation and maintenance costs by implementing industry standard PoE, network-based cameras
- Gathered insightful data for better visitors' experiences with cameras to capture their behaviors.

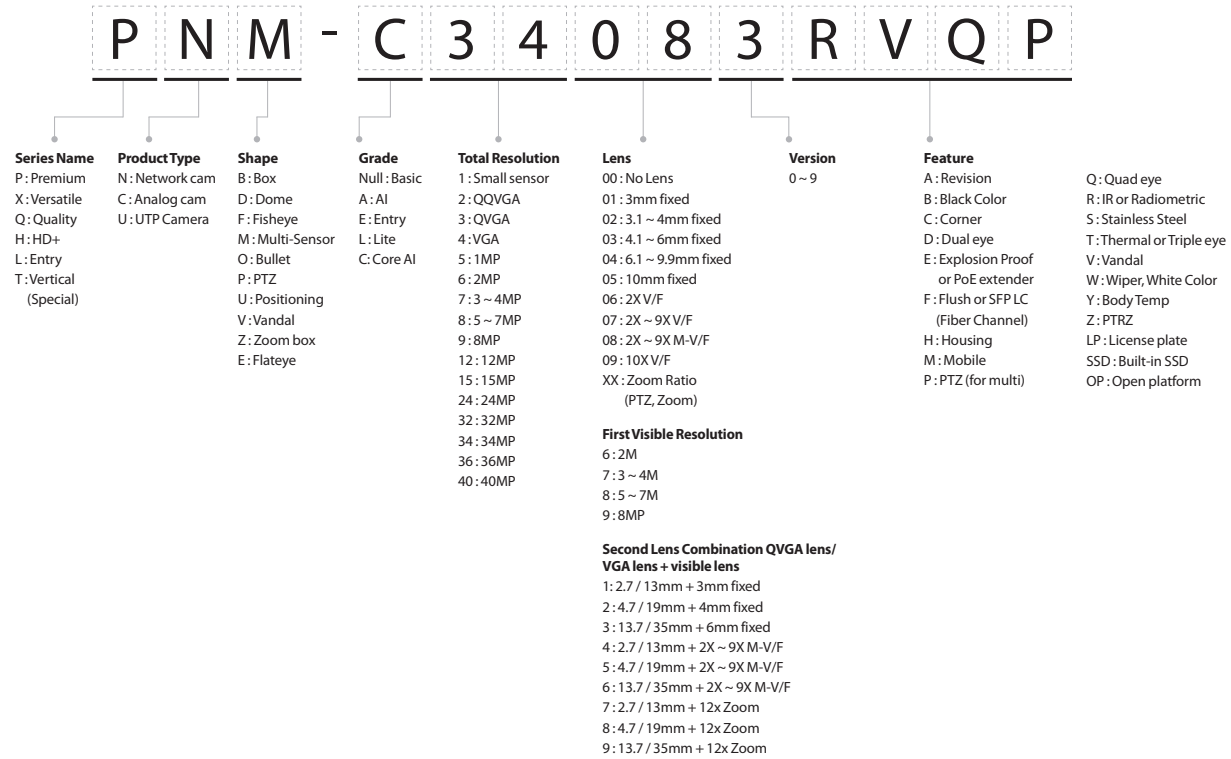
## Hanwha Vision Global network

Hanwha Vision is a Korean company with a long legacy of designing and developing innovative solutions for the video surveillance market.

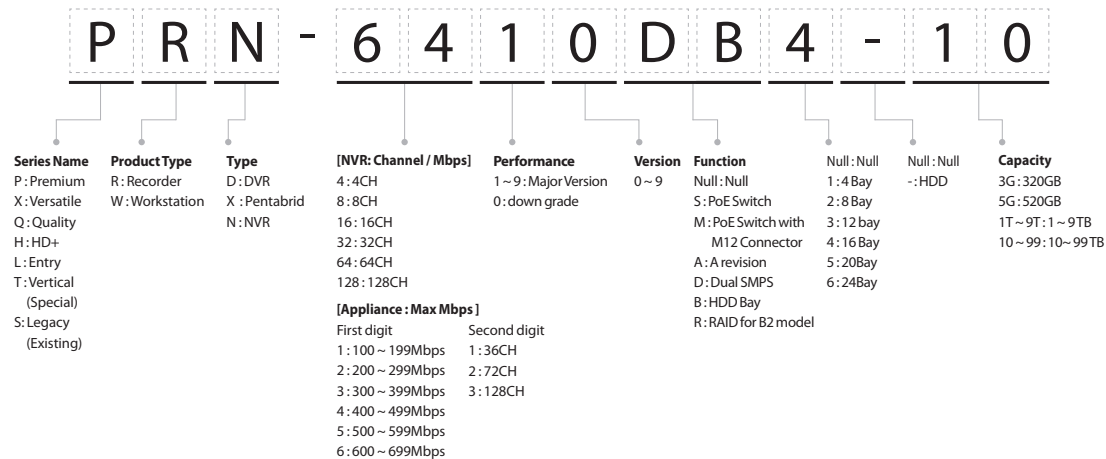


# PRODUCT NAMING RULE

## Camera

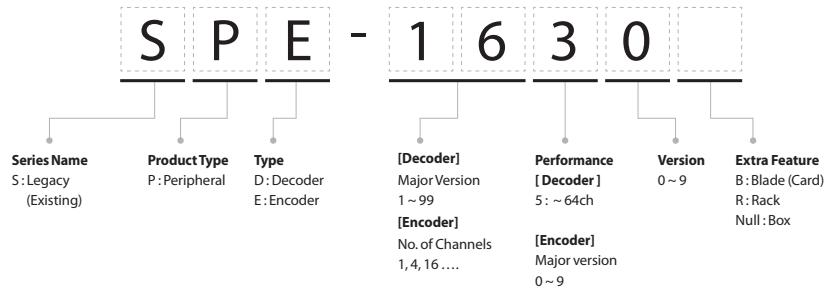


## Recorder

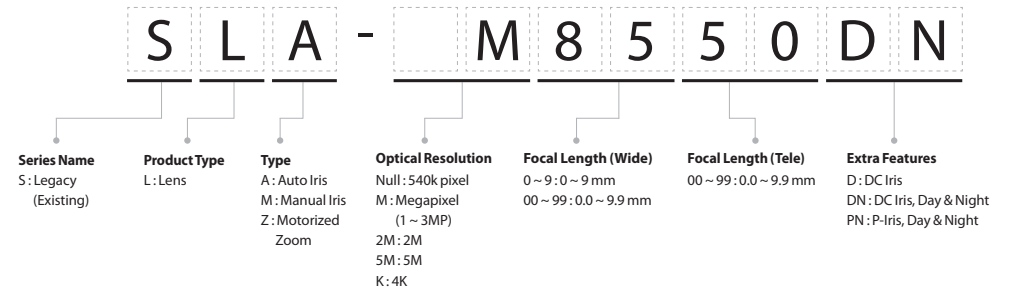


# PRODUCT NAMING RULE

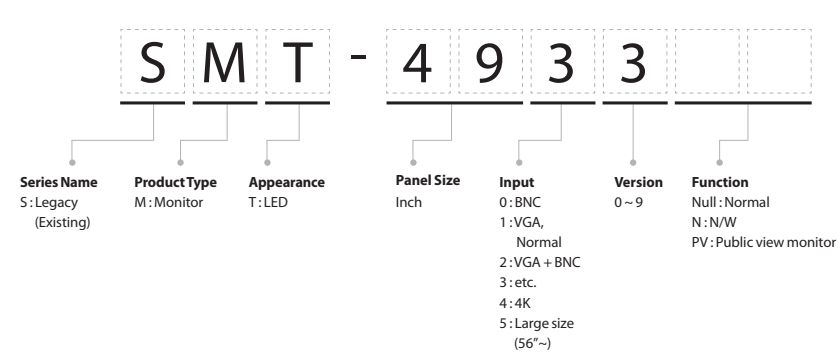
## Decoder/Encoder



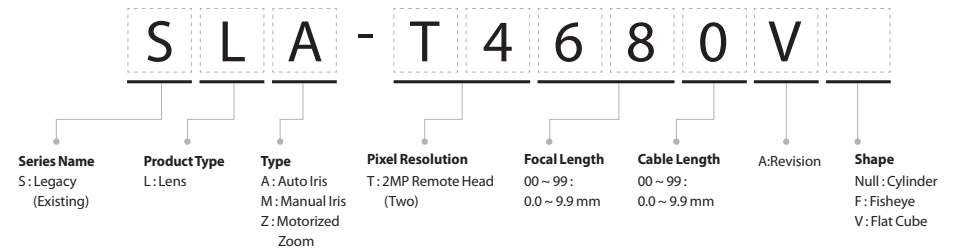
## Lens : CS Mount



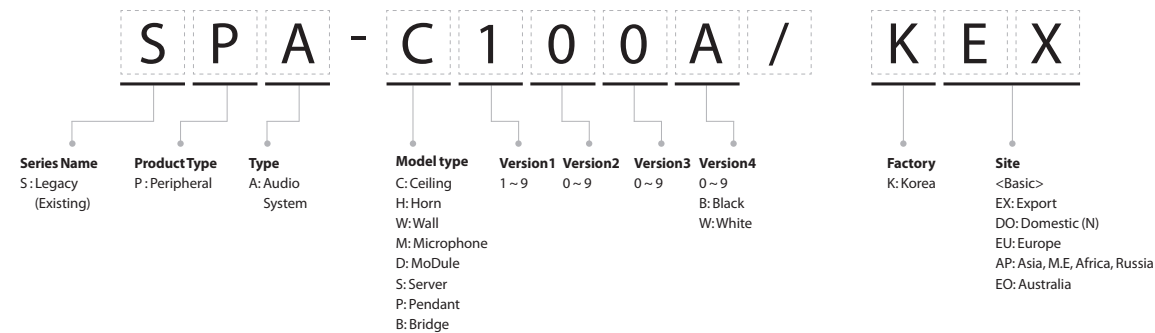
## Monitor



## Lens : Remote Head



## Ip Audio System



## NETWORK

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### Camera

AI Cameras

X series

P series

Q series

T series

L series

A series

### NVR

Encoder / Decoder

VMS

Access Control

IP Audio System

## ANALOG

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### Camera

DVR

## PERIPHERAL

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Monitor

Controller

Lens

## ACCESSORY

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Wisenet Toolbox Plus

# AI Camera



**X Plus**  
XNO-9083R  
4K AI IR Bullet Camera



**X Plus**  
XNV-9083R  
4K AI IR Vandal Dome Camera



**X Plus**  
XNV-9083RZ  
4K AI IR Vandal Dome Camera



**X Plus**  
XND-9083RV  
4K AI IR Dome Camera



**X Plus**  
XNB-9003  
4K AI Box Camera

Imaging Device	1/1.8" progressive CMOS	1/1.8" progressive CMOS	1/1.8" progressive CMOS	1/1.8" progressive CMOS	1/1.8" progressive CMOS
Min. Illumination	Color: 0.04Lux (F1.3, 1/30sec) BW: 0Lux (IR LED on)	Color: 0.04Lux (F1.3, 1/30sec, 30IRE) BW: 0Lux (IR LED on)	Color: 0.03Lux (F1.3, 1/30sec, 30IRE) BW: 0.003Lux (F1.3, 1/30sec, 30IRE), 0Lux (IR LED on)	Color: 0.04Lux (F1.3, 1/30sec) BW: 0Lux (IR LED on)	Color: 0.03Lux (F1.2, 1/30sec) BW: 0.003Lux (F1.2, 1/30sec)
Video Output	CVBS: 1.0 Vp-p, Micro USB Type B	CVBS: 1.0 Vp-p, Micro USB Type B	-	CVBS: 1.0 Vp-p, Micro USB Type B	CVBS: 1.0 Vp-p, Micro USB Type B
Focal Length	4.4 ~ 9.3mm (2.1x) motorized varifocal	4.4 ~ 9.3mm (2.1x) motorized varifocal	4.4~9.3mm(2.1x) motorized varifocal	4.4 ~ 9.3mm (2.1x) motorized varifocal	-
Angular Field of View	H : 112.1°(Wide) ~ 47.5°(Tele) V : 58°(Wide) ~ 26.6°(Tele) D : 137.5°(Wide) ~ 54.6°(Tele)	H : 112.1° (Wide) ~ 47.5° (Tele) V : 58° (Wide) ~ 26.6° (Tele) D : 137.5° (Wide) ~ 54.6° (Tele)	H: 113° (Wide) ~ 47° (Tele) V: 58° (Wide) ~ 26° (Tele) D: 138° (Wide) ~ 54° (Tele)	H : 112.1° (Wide) ~ 47.5° (Tele) V : 58° (Wide) ~ 26° (Tele) D : 137.5° (Wide) ~ 54.6° (Tele)	-
Pan / Tilt / Rotate	-	0°~360° / -45°~85° / 0°~355°	0°~350° / 0°~85° / 0°~340°	0°~360° / -45°~85° / 0°~355°	-
IR Viewable Length	WiseIR 50m (164.04ft)	WiseIR 50m (164.04ft)	15m (49.21ft) 30m (98.43ft) based on scene	WiseIR 50m (164.04ft)	-
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	extremeWDR (120dB)	extremeWDR (120dB)	extremeWDR (120dB)	extremeWDR (120dB)	extremeWDR (120dB)
Digital Noise Reduction	WiseNRII (Based on AI engine), SSNRV	WiseNRII (Based on AI engine), SSNRV	WiseNRII (Based on AI engine), SSNRV	WiseNRII (Based on AI engine), SSNRV	WiseNRII (Based on AI engine), SSNRV
Digital Image Stabilization	Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)
Analytics	Classified object type: Person/Face/Vehicle/License plate Attributes: Vehicle (Type: car/bus/truck/motorcycle/bicycle) Support DetectionShot Analytics events based on AI engine: Object detection, Virtual line (Crossing/Direction), Virtual area (Loitering/Intrusion/Enter/Exit) Analytics events: Defocus detection, Motion detection, Tampering, Fog detection, Audio detection, Sound classification, Shock detection, Virtual area (Appear/Disappear)				
Business Intelligence	Based on AI engine : People counting, Queue management, Heatmap	Based on AI engine : People counting, Queue management, Heatmap	-	Based on AI engine : People counting, Queue management, Heatmap	Based on AI engine : People counting, Queue management, Heatmap
Alarm I/O	2 configurable I/O ports, DC 12V output (Max. 50mA)	2 configurable I/O ports, DC 12V output (Max. 50mA)	-	2 configurable I/O ports, DC 12V output (Max. 50mA)	2 configurable I/O ports
Audio I/O	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	-	Selectable (mic in/line in/built-in mic) / Line out	Selectable (mic in/line in/built-in mic) / Line out
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265/H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	8MP / 30fps	8MP / 30fps	4K / 30fps	8MP / 30fps	8MP / 30fps
WiseStream	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII (Based on AI engine)
Streaming	Up to 10 profiles, 3 virtual channel support	Up to 10 profiles, 3 virtual channel support	Up to 10 profiles, 3 virtual channel support	Up to 10 profiles, 3 virtual channel support	Up to 10 profiles, 3 virtual channel support
Edge Storage	micro SD/SDHC/SDXC 2slot Max. 1TB (512GB * 2)	micro SD/SDHC/SDXC 2slot Max. 1TB (512GB * 2)	Micro SD/SDHC/SDXC 2slot Max. 1TB (512GB * 2)	micro SD/SDHC/SDXC 2slot Max. 1TB (512GB * 2)	micro SD/SDHC/SDXC 2slot Max. 1TB (512GB * 2)
Application Programming Interface	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T/M SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform
Operating Temperature	-50°C ~ +60°C (-58°F ~ +140°F) NEMA TS-2 : 74°C * Start up should be done at above -30°C less than 95%RH (non-condensing) Humidity control /w GORE vent	-50°C ~ +55°C (-58°F ~ +131°F) * Maximum temperature : +60°C (intermittent) NEMA TS-2 : 74°C * Start up should be done at above -30°C less than 95%RH (non-condensing) Humidity control /w GORE vent	-50°C ~ +55°C (-58°F ~ +131°F) +74°C (165°F) (Max) based on Nema TS-2 (2.2.7) * Start up should be done at above -30°C 0~95%RH (non-condensing) Humidity control /w GORE vent	-25°C ~ 50°C (-13°F ~ +122°F) * Maximum temperature : +55°C (intermittent) less than 95% RH (non-condensing) Humidity control /w GORE vent	-10°C ~ 55°C (-14°F ~ +131°F) less than 95%RH (non-condensing)
Certification	IP66/IP67, NEMA4X, IK10	IP66/IP67/IP6K9K, NEMA4X, IK10+	IP66/IP67/IP6K9K, NEMA4X, IK10+	IP52/IK10	-
Power Consumption	PoE+: Max 22.5W, typical 17.9W 12VDC: Max 20W, typical 15.6W Power redundancy failover	PoE+: Max 22.5W, typical 17.9W 12VDC: Max 20W, typical 15.6W Power redundancy failover	PoE+ (IEEE802.3at type 2, Class4)	PoE+: Max 22.5W, typical 17.9W 12VDC: Max 20W, typical 15.6W Power redundancy failover	PoE: Max 12.95W, typical 9.8W 12VDC: Max 19W, typical 9.5W
Dimensions (WxHxD) / Weight	Ø93.4 x 298.4mm (Ø3.68" x 11.75") 2.2kg (4.85 lb)	Ø180 x 125mm (Ø7.09" x 4.92") 1.9kg (4.19 lb)	Ø180 x 135mm (Ø7.09" x 5.31") 2kg (4.41 lb)	Ø160 x 125mm (Ø6.3" x 4.92") 1.6kg (3.53 lb)	W81 x H67 x D165mm (3.19" x 2.64" x 6.48") 880g (1.94 lb)

NETWORK

ANALOG

PERIPHERAL

ACCESSORY



# AI Camera



**X Plus**  
**XNV-8093R**  
6MP AI IR Vandal Dome Camera



**X Plus**  
**XND-8093RV**  
6MP AI IR Dome Camera



**X Plus**  
**XNO-8083R**  
6MP AI IR Bullet Camera



**X Plus**  
**XNV-8083R**  
6MP AI IR Vandal Dome Camera



**X Plus**  
**XNV-8083RZ**  
6MP AI IR Vandal Dome Camera

Imaging Device	1/1.8" progressive CMOS	1/1.8" progressive CMOS	1/1.8" progressive CMOS	1/1.8" progressive CMOS	1/1.8" progressive CMOS
Min. Illumination	Color: 0.06Lux (F1.7, 1/30sec) BW: 0Lux (IR LED on)	Color: 0.06Lux (F1.7, 1/30sec, 30IRE) BW: 0Lux (IR LED on)	Color: 0.04Lux (F1.3, 1/30sec) BW: 0Lux (IR LED on)	Color: 0.04Lux(F1.3, 1/30sec, 30IRE) BW: 0Lux (IR LED on)	Color: 0.03Lux (F1.3, 1/30sec, 30IRE) BW: 0.003Lux (F1.3, 1/30sec, 30IRE), 0Lux (IR LED on)
Video Output	CVBS: 1.0 Vp-p, Micro USB Type B	CVBS: 1.0 Vp-p, Micro USB Type B	CVBS: 1.0 Vp-p, Micro USB Type B	CVBS: 1.0 Vp-p, Micro USB Type B	-
Focal Length	10.9 ~ 29mm (2.7x) motorized varifocal	10.9 ~ 29mm (2.7x) motorized varifocal	4.4 ~ 9.3mm (2.1x) motorized varifocal	4.4 ~ 9.3mm (2.1x) motorized varifocal	4.4 ~ 9.3mm (2.1x) motorized varifocal
Angular Field of View	H: 42° (Wide) ~ 15° (Tele) V: 22.8° (Wide) ~ 8.4° (Tele) D: 48.7° (Wide) ~ 17.1° (Tele)	H: 42° (Wide) ~ 15° (Tele) V: 22.8° (Wide) ~ 8.4° (Tele) D: 48.7° (Wide) ~ 17.1° (Tele)	H: 112.1° (Wide) ~ 47.5° (Tele) V: 58° (Wide) ~ 26.6° (Tele) D: 137.5° (Wide) ~ 54.6° (Tele)	H: 112.1° (Wide) ~ 47.5° (Tele) V: 58° (Wide) ~ 26.6° (Tele) D: 137.5° (Wide) ~ 54.6° (Tele)	H: 113° (Wide) ~ 47° (Tele) V: 58° (Wide) ~ 26° (Tele) D: 138° (Wide) ~ 54° (Tele)
Pan / Tilt / Rotate	0° ~ 360° / -45° ~ 85° / 0° ~ 355°	0° ~ 360° / -45° ~ 85° / 0° ~ 355°	-	0° ~ 360° / -45° ~ 85° / 0° ~ 355°	0° ~ 350° / 0° ~ 85° / 0° ~ 340°
IR Viewable Length	WiseIR 70m (229.66ft)	WiseIR 70m (229.66ft)	WiseIR 50m (164.04ft)	WiseIR 50m (164.04ft)	15m (49.21ft), 30m (98.43ft) based on scene
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	extremeWDR (120dB)	extremeWDR (120dB)	extremeWDR (120dB)	extremeWDR (120dB)	extremeWDR (120dB)
Digital Noise Reduction	WiseNRII (Based on AI engine), SSNRV	WiseNRII (Based on AI engine), SSNRV	WiseNRII (Based on AI engine), SSNRV	WiseNRII (Based on AI engine), SSNRV	WiseNRII (Based on AI engine), SSNRV
Digital Image Stabilization	Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)
Analytics	Classified object type: Person/Face/Vehicle/License plate Attributes: Vehicle (Type: car/bus/truck/motorcycle/bicycle) Support DetectionShot Analytics events based on AI engine: Object detection, Virtual line (Crossing/Direction), Virtual area (Loitering/Intrusion/Enter/Exit) Analytics events: Defocus detection, Motion detection, Tampering, Fog detection, Audio detection, Sound classification, Shock detection, Virtual area (Appear/Disappear)				
Business Intelligence	Based on AI engine : People counting, Queue management, Heatmap	Based on AI engine : People counting, Queue management, Heatmap	Based on AI engine : People counting, Queue management, Heatmap	Based on AI engine : People counting, Queue management, Heatmap	-
Alarm I/O	2 configurable I/O ports, DC 12V output (Max. 50mA)	2 configurable I/O ports, DC 12V output (Max. 50mA)	2 configurable I/O ports, DC 12V output (Max. 50mA)	2 configurable I/O ports, DC 12V output (Max. 50mA)	-
Audio I/O	Selectable (mic in/line in) / Line out	Selectable (mic in/line in/built-in mic) / Line out	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	-
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265/H.264, MJPEG
Resolution / Max. Frame Rate	6MP/30fps	6MP/30fps	6MP/30fps	6MP/30fps	6MP/30fps
WiseStream	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII (Based on AI engine)
Streaming	Up to 10 profiles, 3 virtual channel support	Up to 10 profiles, 3 virtual channel support	Up to 10 profiles, 3 virtual channel support	Up to 10 profiles, 3 virtual channel support	Up to 10 profiles, 3 virtual channel support
Edge Storage	micro SD/SDHC/SDXC 2slot Max. 1TB (512GB * 2)	micro SD/SDHC/SDXC 2slot Max. 1TB (512GB * 2)	micro SD/SDHC/SDXC 2slot Max. 1TB (512GB * 2)	micro SD/SDHC/SDXC 2slot Max. 1TB (512GB * 2)	Micro SD/SDHC/SDXC 2slot Max. 1TB (512GB * 2)
Application Programming Interface	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T/M SUNAPI (HTTP API) Wisenet open platform
Operating Temperature	-50°C ~ +55°C (-58°F ~ +131°F) * Maximum temperature: +60°C (intermittent) NEMA TS-2: 74°C * Start up should be done at above -30°C less than 95%RH (non-condensing) Humidity control /w GORE vent	-25°C ~ 50°C (-13°F ~ +122°F) * Maximum temperature: +55°C (intermittent) less than 95%RH (non-condensing) Humidity control /w GORE vent	-50°C ~ +60°C (-58°F ~ +140°F) NEMA TS-2: 74°C * Start up should be done at above -30°C less than 95%RH (non-condensing) Humidity control /w GORE vent	-50°C ~ +55°C (-58°F ~ +131°F) * Maximum temperature: +60°C (intermittent) NEMA TS-2: 74°C * Start up should be done at above -30°C less than 95%RH (non-condensing) Humidity control /w GORE vent	-50°C ~ +55°C (-58°F ~ +131°F) +74°C (165°F) (Max) based on NEMA TS-2 (2.2.7) * Start up should be done at above -30°C 0~95%RH (non-condensing) Humidity control /w AIR vent
Certification	IP66/IP67/IP6K9K, NEMA4X, IK10+	IP52/IK10	IP66/IP67, NEMA4X, IK10	IP66/IP67/IP6K9K, NEMA4X, IK10+	IP66/IP67/IP6K9K, NEMA4X, IK10+
Power Consumption	PoE+: Max 22.5W, typical 17.9W 12VDC: Max 20W, typical 15.6W Power redundancy failover	PoE+: Max 22.5W, typical 17.9W 12VDC: Max 20W, typical 15.6W Power redundancy failover	PoE+: Max 22.5W, typical 17.9W 12VDC: Max 20W, typical 15.6W Power redundancy failover	PoE+: Max 22.5W, typical 17.9W 12VDC: Max 20W, typical 15.6W Power redundancy failover	PoE+: Max 22.5W, typical 12.1W
Dimensions (WxHxD) /Weight	Ø180 x 125mm (7.09" x 4.92") 1.9kg (4.19 lb)	Ø160 x 125mm (Ø6.3" x 4.92") 1.6kg (3.53 lb)	Ø93.4 x 298.4mm (Ø3.68" x 11.75") 2.2kg (4.85 lb)	Ø180 x 125mm (Ø7.09" x 4.92") 1.9kg (4.19 lb)	Ø180 x 135mm (Ø7.09" x 5.31") 2kg (4.41 lb)

# AI Camera



**X Plus**  
**XNV-8083Z**  
6MP AI Vandal Dome Camera



**X Plus**  
**XND-8083RV**  
6MP AI IR Dome Camera



**X Plus**  
**XNB-8003**  
6MP AI Box Camera



**X Plus**  
**XNO-6123R**  
2MP AI IR Bullet Camera



**X Plus**  
**XNO-6083R**  
2MP AI IR Bullet Camera

Imaging Device	1/1.8" progressive CMOS	1/1.8" progressive CMOS	1/1.8" progressive CMOS	1/2.8" CMOS	1/2.8" progressive CMOS
Min. Illumination	Color: 0.03Lux (F1.3, 1/30sec, 30IRE) BW: 0.003Lux (F1.3, 1/30sec, 30IRE)	Color: 0.04Lux (F1.3, 1/30sec, 30IRE) BW: 0Lux (IR LED on)	Color: 0.03Lux (F1.2, 1/30sec, 30IRE) BW: 0.003Lux (F1.2, 1/30sec, 30IRE)	Color: 0.03Lux (F1.6, 1/30sec, 30IRE) B/W: 0Lux (IR LED on), 30/25fps	Color: 0.01Lux (F1.4, 1/30sec, 30IRE) B/W: 0Lux (IR LED on), 30/25fps
Video Output	-	CVBS: 1.0Vp-p, Micro USB Type B	CVBS: 1.0Vp-p, Micro USB Type B	CVBS: 1.0Vp-p, Micro USB type B	CVBS: 1.0Vp-p, Micro USB Type B
Focal Length	4.4~9.3mm(2.1x) motorized varifocal	4.4~9.3mm(2.1x) motorized varifocal	-	5.2~62.4mm(12x) zoom	2.8~12mm(4.3x) motorized varifocal
Angular Field of View	"H: 113°(Wide)~47°(Tele) V: 58°(Wide)~26°(Tele) D: 138°(Wide)~54°(Tele)	H: 112.1° (Wide) ~ 47.5° (Tele) V: 58° (Wide) ~ 26.6° (Tele) D: 137.5° (Wide) ~ 54.6° (Tele)	-	H: 55°(Wide) ~ 5°(Tele) V: 35°(Wide) ~ 3°(Tele) D: 62°(Wide) ~ 6°(Tele)	H: 119.5°(Wide) ~ 27.9°(Tele) V: 62.8°(Wide) ~ 15.7°(Tele) D: 142.1°(Wide) ~ 32°(Tele)
Pan / Tilt / Rotate	0°~350° / 0°~85° / 0°~340°	0°~360° / -45°~85° / 0°~355°	-	-	-
IR Viewable Length	-	WiselR 50m (164.04ft)	-	WiselR 90m (295.28ft)	WiselR 50m (164.04ft)
Day & Night	Auto(ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	extremeWDR (120dB)	extremeWDR (120dB)	extremeWDR (120dB)	extremeWDR (150dB)	extremeWDR (150dB)
Digital Noise Reduction	WiseNRII(Based on AI engine), SSNRV	WiseNRII(Based on AI engine), SSNRV	WiseNRII(Based on AI engine), SSNRV	WiseNRII(Based on AI engine), SSNRV	WiseNRII(Based on AI engine), SSNRV
Digital Image Stabilization	Support(built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)
Analytics	Classified object type: Person/Face/Vehicle/License plate Attributes: Vehicle (Type:car/bus/truck/motorcycle/bicycle) Support DetectionShot Analytics events based on AI engine: Object detection, Virtual line (Crossing/Direction), Virtual area (Loitering/Intrusion/Enter/Exit) Analytics events: Defocus detection, Motion detection, Tampering, Fog detection, Audio detection, Sound classification, Shock detection, Virtual area (Appear/Disappear)				
Business Intelligence	-	Based on AI engine : People counting, Queue management, Heatmap	Based on AI engine : People counting, Queue management, Heatmap	-	Based on AI engine : People counting, Queue management, Heatmap
Alarm I/O	-	2 configurable I/O ports, DC 12V output (Max. 50mA)	2 configurable I/O ports	2 configurable I/O ports, DC 12V output (Max. 50mA)	2 configurable I/O ports, DC 12V output (Max. 50mA)
Audio I/O	-	Selectable (mic in/line in/built-in mic) / Line out	Selectable (mic in/line in/built-in mic) / Line out	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out
Video Compression	H.265/H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	6MP/30fps	6MP/30fps	6MP/30fps	2MP / 120fps	2MP/120fps
WiseStream	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII (Based on AI engine)
Streaming	Up to 10 profiles, 3 virtual channel support	Up to 10 profiles, 3 virtual channel support	Up to 10 profiles, 3 virtual channel support	Up to 10 profiles	Up to 10 profiles, 3 virtual channel support
Edge Storage	Micro SD/SDHC/SDXC 2slot Max. 1TB (512GB * 2)	micro SD/SDHC/SDXC 2slot Max. 1TB (512GB * 2)	micro SD/SDHC/SDXC 2slot Max. 1TB (512GB * 2)	micro SD/SDHC/SDXC 2slot Max. 1TB (512GB * 2)	micro SD/SDHC/SDXC 2slot Max. 1TB (512GB * 2)
Application Programming Interface	ONVIF Profile S/G/T/M SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T/M SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform
Operating Temperature	-50°C ~ +55°C (-58°F ~ +131°F) +74°C (165°F) (Max) based on NEMA TS-2 (2.2.7) * Start up should be done at above -30°C 0~95%RH (non-condensing) Humidity control /w AIR vent	-25°C ~ 50°C (-13°F ~ +122°F) * Maximum temperature: +55°C (intermittent) less than 95% RH (non-condensing) Humidity control /w GORE vent	-10°C ~ 55°C (-14°F ~ +131°F) less than 95%RH (non-condensing)	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 95% RH (Non-condensing) * Start up should be done at above -30°C Maximum Temperature based on NEMA-TS 2 (2.2.7): +74°C (+165°F) Humidity control /w GORE vent	-50°C ~ +60°C (-58°F ~ +140°F) NEMA TS-2: 74°C * Start up should be done at above -30°C less than 95%RH (non-condensing) Humidity control /w GORE vent
Certification	IP66/IP67/IP6K9K, NEMA4X, IK10+	IP52/IK10	-	IP66/67, IK10, NEMA4X, NEMA-TS 2 (2.2.8, 2.2.9)	IP66/IP67, NEMA4X, IK10
Power Consumption	PoE+: Max 17.0W, typical 12.1W	PoE+: Max 22.5W, typical 17.9W 12VDC: Max 20W, typical 15.6W Power redundancy failover	PoE: Max 12.95W, typical 9.8W 12VDC: Max 19W, typical 9.5W	PoE+: Max 19.5W, typical 15.5W 12VDC: Max 16.5W, typical 13.1W Power redundancy failover	PoE+: Max 22.5W, typical 17.9W 12VDC: Max 20W, typical 15.6W Power redundancy failover
Dimensions (WxHxD) /Weight	Ø180 x 135mm (Ø7.09" x 5.31") 2kg (4.41 lb)	Ø160 x 125mm (Ø6.3" x 4.92") 1.6kg (3.53 lb)	W 81 x H 67 x D 165mm (Ø3.19" x 2.64" x 6.48") 880g (1.94 lb)	Ø93.4 x 298.4mm (Ø3.68" x 11.75") 2.3kg (5.07 lb)	Ø93.4 x 298.4mm (Ø3.68" x 11.75") 2.2kg (4.85 lb)

NETWORK

ANALOG

PERIPHERAL

ACCESSORY

X Plus



**XNV-6123R**  
2MP AI IR Vandal Dome Camera

X Plus



**XNV-6083R**  
2MP AI IR Vandal Dome Camera

X Plus



**XND-6083RV**  
2MP AI IR Dome Camera

X Plus



**XNB-6003**  
2MP AI Box Camera

X Core



**XNO-C9083R**  
4K AI IR Bullet Camera

Imaging Device	1/2.8" CMOS	1/2.8" progressive CMOS	1/2.8" progressive CMOS	1/2.8" progressive CMOS	1/1.8" progressive CMOS
Min. Illumination	Color: 0.03Lux (F1.6, 1/30sec, 30IRE) B/W: 0Lux (IR LED on), 30/25fps	Color: 0.01Lux (F1.4, 1/30sec, 30IRE) B/W: 0Lux (IR LED on), 30/25fps	Color: 0.01Lux (F1.4, 1/30sec, 30IRE) B/W: 0Lux (IR LED on), 30/25fps	Color: 0.007Lux (F1.2, 1/30sec, 30IRE) B/W: 0.0007Lux (F1.2, 1/30sec, 30IRE), 30/25fps	Color: 0.04Lux (F1.3, 1/30sec, 30IRE) BW: 0Lux (IR LED on)
Video Output	CVBS: 1.0Vp-p, Micro USB type B	CVBS: 1.0Vp-p, Micro USB Type B	CVBS: 1.0Vp-p, Micro USB Type B	CVBS: 1.0Vp-p, Micro USB Type B	Micro USB Type B
Focal Length	5.2 ~ 62.4mm (12x) zoom	2.8 ~ 12mm (4.3x) motorized varifocal	2.8 ~ 12mm (4.3x) motorized varifocal	-	4.4 ~ 9.3mm (2.1x) motorized varifocal
Angular Field of View	H: 55°(Wide) ~ 5°(Tele) V: 33°(Wide) ~ 3°(Tele) D: 62°(Wide) ~ 6°(Tele)	H: 119.5°(Wide) ~ 27.9°(Tele) V: 62.8°(Wide) ~ 15.7°(Tele) D: 142.1°(Wide) ~ 32°(Tele)	H: 119.5°(Wide) ~ 27.9°(Tele) V: 62.8°(Wide) ~ 15.7°(Tele) D: 142.1°(Wide) ~ 32°(Tele)	-	H: 112.1°(Wide) ~ 47.5°(Tele) V: 58°(Wide) ~ 26.6°(Tele) D: 137.5°(Wide) ~ 54.6°(Tele)
Pan / Tilt / Rotate	0°~360° / -45°~80° / 0°~355°	0°~360° / -45°~80° / 0°~355°	0°~360° / -45°~85° / 0°~355°	-	-
IR Viewable Length	WiseIR 90m (295.28ft)	WiseIR 50m (164.04ft)	WiseIR 50m (164.04ft)	-	WiseIR 40m (131.23ft)
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	extremeWDR (150dB)	extremeWDR (150dB)	extremeWDR (150dB)	extremeWDR (150dB)	extremeWDR (120dB)
Digital Noise Reduction	WiseNRII (Based on AI engine), SSNRV	WiseNRII (Based on AI engine), SSNRV	WiseNRII (Based on AI engine), SSNRV	WiseNRII (Based on AI engine), SSNRV	WiseNRII (Based on AI engine), SSNRV
Digital Image Stabilization	Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)
Analytics	Classified object type: Person/Face/Vehicle/License plate Attributes: Vehicle (Type: car/bus/truck/motorcycle/bicycle) Support DetectionShot Analytics events based on AI engine: Object detection, Virtual line (Crossing/Direction), Virtual area (Loitering/Intrusion/Enter/Exit) Analytics events: Defocus detection, Motion detection, Tampering, Fog detection, Audio detection, Sound classification, Shock detection, Virtual area (Appear/Disappear)				
Business Intelligence	-	Based on AI engine: People counting, Queue management, Heatmap	Based on AI engine: People counting, Queue management, Heatmap	Based on AI engine: People counting, Queue management, Heatmap	Based on AI engine: People counting, Queue management, Heatmap
Alarm I/O	2 configurable I/O ports, DC 12V output (Max. 50mA)	2 configurable I/O ports, DC 12V output (Max. 50mA)	2 configurable I/O ports, DC 12V output (Max. 50mA)	2 configurable I/O ports	2 configurable I/O ports
Audio I/O	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	Selectable (mic in/line in/built-in mic) / Line out	Selectable (mic in/line in/built-in mic) / Line out	Selectable (mic in/line in) / Line out
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	2MP / 120fps	2MP / 120fps	2MP / 120fps	2MP / 120fps	8MP / 30fps
WiseStream	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII (Based on AI engine)
Streaming	Up to 10 profiles	Up to 10 profiles, 3 virtual channel support	Up to 10 profiles, 3 virtual channel support	Up to 10 profiles, 3 virtual channel support	Up to 10 profiles, 3 virtual channel support
Edge Storage	micro SD/SDHC/SDXC 2slot Max. 1TB (512GB * 2)	micro SD/SDHC/SDXC 2slot Max. 1TB (512GB * 2)	micro SD/SDHC/SDXC 2slot Max. 1TB (512GB * 2)	micro SD/SDHC/SDXC 2slot Max. 1TB (512GB * 2)	micro SD/SDHC/SDXC 1slot 512GB
Application Programming Interface	ONVIF Profile S/G/T/M SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform
Operating Temperature	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 95% RH (Non-condensing) * Start up should be done at above -30°C Maximum Temperature based on NEMA-TS 2 (2.2.7): +74°C (+165°F) Humidity control /w GORE vent	-50°C ~ +55°C (-58°F ~ +131°F) * Maximum temperature: +60°C (intermittent) NEMA TS-2: 74°C * Start up should be done at above -30°C less than 95%RH (non-condensing) Humidity control /w GORE vent	-25°C ~ 50°C (-13°F ~ +122°F) * Maximum temperature: +55°C (intermittent) less than 95%RH (non-condensing) Humidity control /w GORE vent	-10°C ~ 55°C (-14°F ~ +131°F) less than 95%RH (non-condensing)	-40°C ~ +55°C (-40°F ~ +131°F) * Maximum temperature: +60°C (intermittent) * Start up should be done at above -20°C NEMA TS-2: 74°C 0~95%RH (Non-condensing) Humidity control /w GORE vent
Certification	IP66/IP67/IP6K9K, NEMA4X, NEMA-TS 2 (2.2.8, 2.2.9), IK10+	IP66/IP67/IP6K9K, NEMA4X, IK10+	IP52, IK10	-	IP66/IP67/NEMA4X, IK10
Power Consumption	PoE+: Max 19.5W, typical 15.5W 12VDC: Max 16.5W, typical 13.1W Power redundancy failover	PoE+: Max 22.5W, typical 17.9W 12VDC: Max 20W, typical 15.6W Power redundancy failover	PoE+: Max 22.5W, typical 17.9W 12VDC: Max 20W, typical 15.6W Power redundancy failover	PoE: Max 12.95W, typical 9.8W 12VDC: Max 19W, typical 9.5W	PoE: Max 12.95W, typical 11.2W 12VDC: Max 13.2W, typical 10.8W
Dimensions (WxHxD) / Weight	Ø180 x 138mm (Ø7.09" x 5.43") 2.13kg (4.70 lb)	Ø180 x 125mm (Ø7.09 x 4.92") 1.9kg (4.19 lb)	Ø160 x 125mm (Ø6.3" x 4.92") 1.6kg (3.53 lb)	W 81 x H 67 x D 165mm (3.19" x 2.64" x 6.48") 880g (1.94 lb)	Ø93.4 x 276.6mm (Ø3.68" x 10.89") 1.64kg (3.62 lb)



**X Core**  
**XNV-C9083R**  
4K AI IR Vandal Dome Camera



**X Core**  
**XND-C9083RV**  
4K AI IR Dome Camera



**X Core**  
**XNO-C8083R**  
6MP AI IR Bullet Camera



**X Core**  
**XNV-C8083R**  
6MP AI IR Vandal Dome Camera

Imaging Device	1/1.8" progressive CMOS	1/1.8" progressive CMOS	1/1.8" progressive CMOS	1/1.8" progressive CMOS
Min. Illumination	Color: 0.04Lux (F1.3, 1/30sec) BW: 0Lux (IR LED on)	Color: 0.04Lux (F1.3, 1/30sec, 30IRE) BW: 0Lux (IR LED on)	Color: 0.04Lux (F1.3, 1/30sec, 30IRE) B/W: 0Lux (IR LED on)	Color: 0.04Lux (F1.3, 1/30sec, 30IRE) B/W: 0Lux (IR LED on)
Video Output	Micro USB Type B	Micro USB Type B	Micro USB Type B	Micro USB Type B
Focal Length	4.4 ~ 9.3mm (2.1x) motorized varifocal	4.4 ~ 9.3mm (2.1x) motorized varifocal	4.4 ~ 9.3mm (2.1x) motorized varifocal	4.4 ~ 9.3mm (2.1x) motorized varifocal
Angular Field of View	H: 112.1°(Wide) ~ 47.5°(Tele) V: 58°(Wide) ~ 26.6°(Tele) D: 137.5°(Wide) ~ 54.6°(Tele)	H: 112.1°(Wide) ~ 47.5°(Tele) V: 58°(Wide) ~ 26.6°(Tele) D: 137.5°(Wide) ~ 54.6°(Tele)	H: 112.1°(Wide) ~ 47.5°(Tele) V: 58°(Wide) ~ 26.6°(Tele) D: 137.5°(Wide) ~ 54.6°(Tele)	H: 112.1°(Wide) ~ 47.5°(Tele) V: 58°(Wide) ~ 26.6°(Tele) D: 137.5°(Wide) ~ 54.6°(Tele)
Pan / Tilt / Rotate	0°~ 360° / -45°~ 75°/ 0°~ 355°	0°~ 360° / -45°~ 75°/ 0°~ 355°	-	0°~ 360° / -45°~ 75°/ 0°~ 355°
IR Viewable Length	WiseIR 40m (131.23ft)	WiseIR 40m (131.23ft)	WiseIR 40m (131.23ft)	WiseIR 40m (131.23ft)
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	extremeWDR (120dB)	extremeWDR (120dB)	extremeWDR (120dB)	extremeWDR (120dB)
Digital Noise Reduction	WiseNRII(Based on AI engine), SSNRV	WiseNRII(Based on AI engine), SSNRV	WiseNRII(Based on AI engine), SSNRV	WiseNRII(Based on AI engine), SSNRV
Digital Image Stabilization	Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)
Analytics	Classified object type: Person/Face/Vehicle/License plate Attributes: Vehicle (Type:car/bus/truck/motorcycle/bicycle) Support DetectionShot Analytics events based on AI engine: Object detection, Virtual line (Crossing/Direction), Virtual area (Loitering/Intrusion/Enter/Exit) Analytics events: Defocus detection, Motion detection, Tampering, Fog detection, Audio detection, Sound classification, Shock detection, Virtual area (Appear/Disappear)			
Business Intelligence	Based on AI engine : People counting, Queue management, Heatmap	Based on AI engine : People counting, Queue management, Heatmap	Based on AI engine : People counting, Queue management, Heatmap	Based on AI engine : People counting, Queue management, Heatmap
Alarm I/O	2 configurable I/O ports	2 configurable I/O ports	2 configurable I/O ports	2 configurable I/O ports
Audio I/O	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	8MP / 30fps	8MP / 30fps	6MP / 30fps	6MP / 30fps
WiseStream	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII(Based on AI engine)
Streaming	Up to 10 profiles, 3 virtual channel support	Up to 10 profiles, 3 virtual channel support	Up to 10 profiles, 3 virtual channel support	Up to 10 profiles, 3 virtual channel support
Edge Storage	micro SD/SDHC/SDXC 1slot 512GB	micro SD/SDHC/SDXC 1slot 512GB	micro SD/SDHC/SDXC 1slot 512GB	micro SD/SDHC/SDXC 1slot 512GB
Application Programming Interface	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform
Operating Temperature	-40°C ~ +55°C (-40°F ~ +131°F) * Maximum temperature : +60°C (intermittent) * Start up should be done at above -20°C NEMA TS-2 : 74°C 0~95%RH (non-condensing) Humidity control /w GORE vent	-10 °C ~ 50°C (14°F ~ +122°F) * Maximum temperature : +55°C (intermittent) 0~95% RH (non-condensing) Humidity control /w GORE vent	-40°C ~ +55°C (-40°F ~ +131°F) * Maximum temperature : +60°C (intermittent) * Start up should be done at above -20°C NEMA TS-2 : 74°C 0~95%RH (non-condensing) Humidity control /w GORE vent	-40°C ~ +55°C (-40°F ~ +131°F) * Maximum temperature : +60°C (intermittent) * Start up should be done at above -20°C NEMA TS-2 : 74°C 0~95%RH (Non-condensing) Humidity control /w GORE vent
Certification	IP66/IP67/NEMA4X, IK10	IP52, IK08	IP66/IP67/NEMA4X, IK10	IP66/IP67/NEMA4X, IK10
Power Consumption	PoE: Max 12.95W, typical 11.2W 12VDC: Max 13.2W, typical 10.8W	PoE: Max 12.95W, typical 11.2W 12VDC: Max 13.2W, typical 10.8W	PoE: Max 12.95W, typical 11.2W 12VDC: Max 13.2W, typical 10.8W	PoE: Max 12.95W, typical 11.2W 12VDC: Max 13.2W, typical 10.8W
Dimensions (WxHxD) /Weight	Ø160 x 118mm (Ø6.3" x 4.65") 1.45kg (3.2lb)	Ø160 x 118mm (Ø6.3" x 4.65") 1.35kg (2.98 lb)	Ø93.4 x 276.6mm (Ø3.68" x 10.89") 1.64kg (3.62 lb)	Ø160 x 118mm (Ø6.3" x 4.65") 1.45kg (3.20 lb)

NETWORK

ANALOG

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**X Core**  
XND-C8083RV  
6MP AI Dome Camera



**X Core**  
XNO-C7083R  
4MP AI IR Bullet Camera



**X Core**  
XNV-C7083R  
4MP AI IR Vandal Dome Camera



**X Core**  
XND-C7083RV  
4MP AI IR Dome Camera

Imaging Device	1/1.8" progressive CMOS	1/2.8" progressive CMOS	1/2.8" progressive CMOS	1/2.8" progressive CMOS
Min. Illumination	Color: 0.04Lux (F1.3, 1/30sec, 30IRE) B/W: 0Lux (IR LED on)	Color: 0.038Lux (F1.4, 1/30sec, 30IRE) B/W: 0Lux (IR LED on)	Color: 0.038Lux (F1.4, 1/30sec, 30IRE) B/W: 0Lux (IR LED on)	Color: 0.038Lux (F1.4, 1/30sec, 30IRE) B/W: 0Lux (IR LED on)
Video Output	Micro USB Type B	Micro USB Type B	Micro USB Type B	Micro USB Type B
Focal Length	4.4 ~ 9.3mm (2.1x) motorized varifocal	2.8 ~ 10mm (3.6x) motorized varifocal	2.8 ~ 10mm (3.6x) motorized varifocal	2.8 ~ 10mm (3.6x) motorized varifocal
Angular Field of View	H: 112.1°(Wide) ~ 47.5° (Tele) V: 58°(Wide) ~ 26.6°(Tele) D: 137.5°(Wide) ~ 54.6° (Tele)	H: 109.7° (Wide) ~ 30.4°(Tele) V: 60.8° (Wide) ~ 17.8°(Tele) D: 131.3°(Wide) ~ 35.3° (Tele)	H: 109.7°(Wide) ~ 30.4°(Tele) V: 60.8° (Wide) ~ 17.8°(Tele) D: 131.3°(Wide) ~ 35.3°(Tele)	H: 109.7°(Wide) ~ 30.4°(Tele) V: 60.8°(Wide) ~ 17.8°(Tele) D: 131.3°(Wide) ~ 35.3°(Tele)
Pan / Tilt / Rotate	0°~ 360° / -45°~ 75° / 0°~ 355°	-	0°~ 360° / -45°~ 75° / 0°~ 355°	0°~ 360° / -45°~ 75° / 0°~ 355°
IR Viewable Length	WiseIR 40m (131.23ft)	WiseIR 40m (131.23ft)	WiseIR 40m (131.23ft)	WiseIR 40m (131.23ft)
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	extremeWDR (120dB)	extremeWDR (120dB)	extremeWDR (120dB)	extremeWDR (120dB)
Digital Noise Reduction	WiseNRII (Based on AI engine), SSNRV	WiseNRII (Based on AI engine), SSNRV	WiseNRII (Based on AI engine), SSNRV	WiseNRII (Based on AI engine), SSNRV
Digital Image Stabilization	Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)
Analytics	Classified object type: Person/Face/Vehicle/License plate Attributes: Vehicle (Type:car/bus/truck/motorcycle/bicycle) Support DetectionShot Analytics events based on AI engine: Object detection, Virtual line (Crossing/Direction), Virtual area (Loitering/Intrusion/Enter/Exit) Analytics events: Defocus detection, Motion detection, Tampering, Fog detection, Audio detection, Sound classification, Shock detection, Virtual area (Appear/Disappear)			
Business Intelligence	Based on AI engine : People counting, Queue management, Heatmap	Based on AI engine : People counting, Queue management, Heatmap	Based on AI engine : People counting, Queue management, Heatmap	Based on AI engine : People counting, Queue management, Heatmap
Alarm I/O	2 configurable I/O ports	2 configurable I/O ports	2 configurable I/O ports	2 configurable I/O ports
Audio I/O	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	6MP / 30fps	4MP / 60fps	4MP / 60fps	4MP / 60fps
WiseStream	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII (Based on AI engine)
Streaming	Up to 10 profiles, 3 virtual channel support	Up to 10 profiles, 3 virtual channel support	Up to 10 profiles, 3 virtual channel support	Up to 10 profiles, 3 virtual channel support
Edge Storage	micro SD/SDHC/SDXC 1slot 512GB	micro SD/SDHC/SDXC 1slot 512GB	micro SD/SDHC/SDXC 1slot 512GB	micro SD/SDHC/SDXC 1slot 512GB
Application Programming Interface	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform
Operating Temperature	-10°C ~ 50°C (14°F ~ +122°F) * Maximum temperature: +55°C (intermittent) 0~95% RH (non-condensing) Humidity control /w GORE vent	-40°C ~ +55°C (-40°F ~ +131°F) * Maximum temperature: +60°C (intermittent) * Start up should be done at above -20°C NEMA TS-2: 74°C 0~95%RH (non-condensing) Humidity control /w GORE vent	-40°C ~ +55°C (-40°F ~ +131°F) * Maximum temperature: +60°C (intermittent) * Start up should be done at above -20°C NEMA TS-2: 74°C 0~95%RH (non-condensing) Humidity control /w GORE vent	-10°C ~ 50°C (14°F ~ +122°F) * Maximum temperature: +55°C (intermittent) 0~95% RH (non-condensing) Humidity control /w GORE vent
Certification	IP52, IK08	IP66/IP67/NEMA4X, IK10	IP66/IP67/NEMA4X, IK10	IP52, IK08
Power Consumption	PoE: Max 12.95W, typical 11.2W 12VDC: Max 13.2W, typical 10.8W	PoE: Max 12.95W, typical 10.8W 12VDC: Max 12.5W, typical 10W	PoE: Max 12.95W, typical 10.8W 12VDC: Max 12.5W, typical 10W	PoE: Max 12.95W, typical 10.8W 12VDC: Max 12.5W, typical 10W
Dimensions (WxHxD) /Weight	Ø160 x 118mm (Ø6.3" x 4.65") 1.35kg (2.98 lb)	Ø93.4 x 276.6mm (Ø3.68" x 10.89") 1.64kg (3.62 lb)	Ø160 x 118mm (Ø6.3" x 4.65") 1.45kg (3.20 lb)	Ø160 x 118mm (Ø6.3" x 4.65") 1.35kg (2.98 lb)

X Core



**XNO-C6083R**  
2MP AI IR Bullet Camera

X Core



**XNV-C6083R**  
2MP AI IR Vandal Dome Camera

X Core



**XND-C6083RV**  
2MP AI Dome Camera



**XNF-9013RV**  
12MP AI Fisheye Camera

Imaging Device	1/2.8" progressive CMOS	1/2.8" progressive CMOS	1/2.8" progressive CMOS	1/2.3" 12MP CMOS
Min. Illumination	Color: 0.01Lux (F1.4, 1/30sec, 30IRE) B/W: 0Lux (IR LED on)	Color: 0.01Lux (F1.4, 1/30sec, 30IRE) B/W: 0Lux (IR LED on)	Color: 0.01Lux (F1.4, 1/30sec, 30IRE) B/W: 0Lux (IR LED on), 30/25fps	Color: 0.39 Lux (F2.2, 1/30sec) BW: 0Lux(IR LED on)
Video Output	Micro USB Type B	Micro USB Type B	Micro USB Type B	Micro USB Type B
Focal Length	2.8 ~ 12mm (4.3x) motorized varifocal	2.8 ~ 12mm (4.3x) motorized varifocal	2.8 ~ 12mm (4.3x) motorized varifocal	1.08mm fixed focal
Angular Field of View	H: 119.5°(Wide) ~ 27.9°(Tele) V: 62.8°(Wide) ~ 15.7°(Tele) D: 142.1°(Wide) ~ 32°(Tele)	H: 119.5°(Wide) ~ 27.9°(Tele) V: 62.8°(Wide) ~ 15.7°(Tele) D: 142.1°(Wide) ~ 32°(Tele)	H: 119.5°(Wide) ~ 27.9°(Tele) V: 62.8°(Wide) ~ 15.7°(Tele) D: 142.1°(Wide) ~ 32°(Tele)	H: 187° / V: 187° / D: 187°
Pan / Tilt / Rotate	-	0°~ 360° / -45°~ 75°/ 0°~ 355°	0°~ 360° / -45°~ 75°/ 0°~ 355°	Lens Rotation
IR Viewable Length	WiseIR 40m (131.23ft)	WiseIR 40m (131.23ft)	WiseIR 40m (131.23ft)	-
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	extremeWDR (150dB)	extremeWDR (150dB)	extremeWDR (150dB)	extremeWDR (120dB)
Digital Noise Reduction	WiseNR II (Based on AI engine), SSNRV	WiseNR II (Based on AI engine), SSNRV	WiseNR II (Based on AI engine), SSNRV	WiseNR II (Based on AI engine), SSNRV
Digital Image Stabilization	Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)	-
Analytics	Classified object type: Person/Face/Vehicle/License plate Attributes: Vehicle (Type: car/bus/truck/motorcycle/bicycle) Support DetectionShot Analytics events based on AI engine: Object detection, Virtual line (Crossing/Direction), Virtual area (Loitering/Intrusion/Enter/Exit) Analytics events: Defocus detection, Motion detection, Tampering, Fog detection, Audio detection, Sound classification, Shock detection, Virtual area (Appear/Disappear)			Classified object type: Person/Face/Vehicle/License plate Support DetectionShot Analytics events based on AI engine: Object detection, Virtual line (Crossing/Direction), Virtual area (Loitering/Intrusion/Enter/Exit) Analytics events: Defocus detection, Motion detection, Tampering, Fog detection, Audio detection, Sound classification, Shock detection, Virtual area (Appear/Disappear)
Business Intelligence	Based on AI engine: People counting, Queue management, Heatmap	Based on AI engine: People counting, Queue management, Heatmap	Based on AI engine: People counting, Queue management, Heatmap	Based on AI engine: People counting, Queue management, Heatmap
Alarm I/O	2 configurable I/O ports	2 configurable I/O ports	2 configurable I/O ports	2 configurable I/O ports
Audio I/O	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265/H.264, MJPEG
Resolution / Max. Frame Rate	2MP / 60fps	2MP / 60fps	2MP / 60fps	3008 x 3008 / 30fps
WiseStream	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII (Based on AI engine)
Streaming	Up to 10 profiles, 3 virtual channel support	Up to 10 profiles, 3 virtual channel support	Up to 10 profiles, 3 virtual channel support	Up to 10 profiles, 5 virtual channel support
Edge Storage	micro SD/SDHC/SDXC 1slot 512GB	micro SD/SDHC/SDXC 1slot 512GB	micro SD/SDHC/SDXC 1slot 512GB	micro SD/SDHC/SDXC 2slots 1TB (512GBx2)
Application Programming Interface	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T/M SUNAPI (HTTP API) Wisenet open platform
Operating Temperature	-40°C ~ +55°C (-40°F ~ +131°F) * Maximum temperature: +60°C (intermittent) * Start up should be done at above -20°C NEMA TS-2: 74°C 0~95%RH (non-condensing) Humidity control /w GORE vent	-40°C ~ +55°C (-40°F ~ +131°F) * Maximum temperature: +60°C (intermittent) * Start up should be done at above -20°C NEMA TS-2: 74°C 0~95%RH (non-condensing) Humidity control /w GORE vent	-10°C ~ 50°C (14°F ~ +122°F) * Maximum temperature: +55°C (intermittent) 0~95% RH (non-condensing) Humidity control /w GORE vent	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 95% RH POE+ Mode 55°C (Hysteresis 5°C)
Certification	IP66/IP67/NEMA4X, IK10	IP66/IP67/NEMA4X, IK10	IP52, IK08	IP66, IK10, NEMA4X
Power Consumption	PoE: Max 12.95W, typical 10.8W 12VDC: Max 12.5W, typical 10W	PoE: Max 12.95W, typical 10.8W 12VDC: Max 12.5W, typical 10W	PoE: Max 12.95W, typical 10.8W 12VDC: Max 12.5W, typical 10W	PoE: Max 12.95W, typical 9.4W, 12VDC: Max 12.9W, typical 9.0W / PoE+: Max 23.0W, typical 9.4W, 12VDC: Max 22.0W, typical 9.0W
Dimensions (WxHxD) /Weight	Ø93.4 x 276.6mm (Ø3.68" x 10.89") 1.64kg (3.62 lb)	Ø160 x 118mm (Ø6.3" x 4.65") 1.45kg (3.20 lb)	Ø160 x 118mm (Ø6.3" x 4.65") 1.35kg (2.98 lb)	Ø160 x 72mm (Ø6.23" x 2.84") 1.17kg (2.58lb)

NETWORK

ANALOG

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**PNO-A9081R**  
4K AI IR Bullet Camera



**PNV-A9081R**  
4K AI IR Vandal Dome Camera



**PND-A9081RV**  
4K AI IR Dome Camera



**PND-A9081RF**  
4K AI IR Dome Camera



**PNB-A9001**  
4K AI Box Camera

Imaging Device	1/1.8" CMOS	1/1.8" CMOS	1/1.8" CMOS	1/1.8" CMOS	1/1.8" CMOS
Min. Illumination	Color: 0.05Lux (F1.6, 1/30sec) BW: 0Lux (IR LED on)	Color: 0.05Lux (F1.6, 1/30sec) BW: 0Lux (IR LED on)	Color: 0.05Lux (F1.6, 1/30sec) BW: 0Lux (IR LED on)	Color: 0.05Lux (F1.6, 1/30sec) BW: 0Lux (IR LED on)	Color: 0.03Lux (F1.2, 1/30sec)
Video Output	CVBS: 1.0 Vp-p, Micro USB Type B	CVBS: 1.0 Vp-p, Micro USB Type B	CVBS: 1.0 Vp-p, Micro USB Type B	CVBS: 1.0 Vp-p, Micro USB Type B	CVBS: 1.0 Vp-p, Micro USB Type B
Focal Length	4.5~10mm (2.2x) motorized varifocal	4.5~10mm (2.2x) motorized varifocal	4.5~10mm (2.2x) motorized varifocal	4.5~10mm (2.2x) motorized varifocal	-
Angular Field of View	H: 101.4°(Wide) ~ 45.5°(Tele) V: 53.6°(Wide) ~ 25.5°(Tele) D: 120.7°(Wide) ~ 52.3°(Tele)	H: 101.4°(Wide) ~ 45.5°(Tele) V: 53.6°(Wide) ~ 25.5°(Tele) D: 120.7°(Wide) ~ 52.3°(Tele)	H: 101.4°(Wide) ~ 45.5°(Tele) V: 53.6°(Wide) ~ 25.5°(Tele) D: 120.7°(Wide) ~ 52.3°(Tele)	H: 101.4°(Wide) ~ 45.5°(Tele) V: 53.6°(Wide) ~ 25.5°(Tele) D: 120.7°(Wide) ~ 52.3°(Tele)	-
Pan / Tilt / Rotate	-	0°~ 360° / -45°~ 85° / 0°~ 355°	0°~ 360° / -45°~ 85° / 0°~ 355°	0°~ 360° / -45°~ 85° / 0°~ 355°	-
IR Viewable Length	30m (98.42ft)	30m (98.42ft)	30m (98.42ft)	30m (98.42ft)	-
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	120dB	120dB	120dB	120dB	120dB
Digital Noise Reduction	WiseNR II (Based on AI engine), SSNRV	WiseNR II (Based on AI engine), SSNRV	WiseNR II (Based on AI engine), SSNRV	WiseNR II (Based on AI engine), SSNRV	WiseNR II (Based on AI engine), SSNRV
Digital Image Stabilization	Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)
Analytics	Classified object type : Person/Face/Vehicle/License plate Attributes : Person(Gender, Color and Bag), Face(Age, Gender, Mask and Glasses), Vehicle(Type:car/bus/truck/motorcycle/bicycle and Color) Support Bestshot per object Analytics events based on AI engine - Object detection, Virtual line*(Crossing/Direction), Virtual area *(Loitering/Intrusion/Enter/Exit), Face mask detection, Digital auto tracking, Social distancing detection Analytics events - Defocus detection, Motion detection, Tampering, Audio detection, Sound classification, Shock detection, Virtual area(Appear/Disappear)				
Business Intelligence	Based on AI engine : People counting, Queue management, Heatmap	Based on AI engine : People counting, Queue management, Heatmap	Based on AI engine : People counting, Queue management, Heatmap	Based on AI engine : People counting, Queue management, Heatmap	Based on AI engine : People counting, Queue management, Heatmap
Alarm I/O	1/1	1/1	1/1	1/1	1/1
Audio I/O	Line in / Line out	Line in / Line out	Line in / Line out	Line in / Line out	Line in / Line out
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	8MP / 30fps	8MP / 30fps	8MP / 30fps	8MP / 30fps	8MP/30fps
WiseStream	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII (Based on AI engine)
Streaming	Up to 3 profiles	Up to 3 profiles	Up to 3 profiles	Up to 3 profiles	Up to 3 profiles
Edge Storage	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC
Application Programming Interface	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform
Operating Temperature	-40°C ~ +55°C (-40°F ~ +131°F) * Start up above -10°C	-40°C ~ +55°C (-40°F ~ +131°F) * Start up above -10°C	-25°C ~ +50°C (-13°F ~ +122°F)	-25°C ~ +50°C (-13°F ~ +122°F)	-10°C ~ +55°C (+14°F ~ +131°F)
Certification	IP66/IP67, IK10, NEMA4X	IP66/IP67/IP6K9K, IK10+, NEMA4X	IP52, IK10	IP52, Plenum rate	-
Power Consumption	PoE+: Max 20W, typical 17W 12VDC: Max 18W, typical 16W	PoE+: Max 20W, typical 17W 12VDC: Max 18.7W, typical 15W	PoE+: Max 20W, typical 16W 12VDC: Max 17.7W, typical 14W	PoE+: Max 20W, typical 16W 12VDC: Max 17.7W, typical 14W	PoE+: Max 16.5W, typical 12.5W 12VDC: Max 13.5W, typical 10.8W
Dimensions (WxHxD) /Weight	Ø91 x 368.6mm (Ø3.58" x 14.51") (Without sunshield) 2.48kg (5.47lb)	Ø180 x 125mm (Ø7.09" x 4.92") 1.9kg (4.19lb)	Ø160 x 125mm (Ø6.3" x 4.92") 1.6kg (3.53lb)	Ø205 x 163mm (Ø8.07" x 6.42") 1.95kg (4.30lb)	W 73.1 x H 66.6 x D 147.8mm 700g (1.54lb)
Additional Features	AI : BestShot, Attributes (Person, Vehicle, Face, License plate)	AI : BestShot, Attributes (Person, Vehicle, Face, License plate)	AI : BestShot, Attributes (Person, Vehicle, Face, License plate)	AI : BestShot, Attributes (Person, Vehicle, Face, License plate)	AI : BestShot, Attributes (Person, Vehicle, Face, License plate)



**PNO-A6081R**  
2MP AI IR Bullet Camera



**PNV-A6081R**  
2MP AI IR Vandal Dome Camera



**PND-A6081RV**  
2MP AI IR Dome Camera



**PND-A6081RF**  
2MP AI IR Dome Camera



**PNB-A6001**  
2MP AI Box Camera

Imaging Device	1/2" CMOS	1/2" CMOS	1/2" CMOS	1/2" CMOS	1/2" CMOS
Min. Illumination	Color: 0.008Lux (F1.3) BW : 0Lux (IR LED on)	Color: 0.008Lux (F1.3) BW : 0Lux (IR LED on)	Color: 0.008Lux (F1.3) BW : 0Lux (IR LED on)	Color: 0.008Lux (F1.3) BW : 0Lux (IR LED on)	Color: 0.007Lux (F1.2, 1/30sec)
Video Output	CVBS: 1.0 Vp-p, Micro USB Type B	CVBS: 1.0 Vp-p, Micro USB Type B	CVBS: 1.0 Vp-p, Micro USB Type B	CVBS: 1.0 Vp-p, Micro USB Type B	CVBS: 1.0 Vp-p, Micro USB Type B
Focal Length	4.38 ~ 9.33mm (2.13x) motorized varifocal	4.38 ~ 9.33mm (2.13x) motorized varifocal	4.38 ~ 9.33mm (2.13x) motorized varifocal	4.38 ~ 9.33mm (2.13x) motorized varifocal	-
Angular Field of View	H:103.1°(Wide) ~ 44.5°(Tele) V:54.2°(Wide) ~ 24.9°(Tele) D:124°(Wide) ~ 51.1°(Tele)	H:103.1°(Wide) ~ 44.5°(Tele) V:54.2°(Wide) ~ 24.9°(Tele) D:124°(Wide) ~ 51.1°(Tele)	H:103.1°(Wide) ~ 44.5°(Tele) V:54.2°(Wide) ~ 24.9°(Tele) D:124°(Wide) ~ 51.1°(Tele)	H:103.1°(Wide) ~ 44.5°(Tele) V:54.2°(Wide) ~ 24.9°(Tele) D:124°(Wide) ~ 51.1°(Tele)	-
Pan / Tilt / Rotate	-	0°~360° / -45°~85° / 0°~355°	0°~360° / -45°~85° / 0°~355°	0°~360° / -45°~85° / 0°~355°	-
IR Viewable Length	30m (98.42ft)	30m (98.42ft)	30m (98.42ft)	30m (98.42ft)	-
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	120dB	120dB	120dB	120dB	120dB
Digital Noise Reduction	WiseNRII (Based on AI engine), SSNR	WiseNRII (Based on AI engine), SSNR	WiseNRII (Based on AI engine), SSNR	WiseNRII (Based on AI engine), SSNR	WiseNRII (Based on AI engine), SSNR
Digital Image Stabilization	Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)
Analytics	Classified object type : Person/Face/Vehicle/License plate Attributes : Person(Gender, Color and Bag), Face(Age, Gender, Mask and Glasses), Vehicle(Type:car/bus/truck/motorcycle/bicycle and Color) Support Bestshot per object Analytics events based on AI engine - Object detection, Virtual line*(Crossing/Direction), Virtual area *(Loitering/Intrusion/Enter/Exit), Face mask detection, Digital auto tracking, Social distancing detection Analytics events - Defocus detection, Motion detection, Tampering, Audio detection, Sound classification, Shock detection, Virtual area(Appear/Disappear)				
Business Intelligence	Based on AI engine : People counting, Queue management, Heatmap	Based on AI engine : People counting, Queue management, Heatmap	Based on AI engine : People counting, Queue management, Heatmap	Based on AI engine : People counting, Queue management, Heatmap	Based on AI engine : People counting, Queue management, Heatmap
Alarm I/O	1/1	1/1	1/1	1/1	1/1
Audio I/O	Line in / Line out	Line in / Line out	Line in / Line out	Line in / Line out	Line in / Line out
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	2MP / 120fps	2MP / 120fps	2MP / 120fps	2MP / 120fps	2MP / 120fps
WiseStream	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII (Based on AI engine)
Streaming	Up to 3 profiles	Up to 3 profiles	Up to 3 profiles	Up to 3 profiles	Up to 3 profiles
Edge Storage	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC
Application Programming Interface	ONVIF PROFILE S/G/T/M SUNAPI (HTTP API) Wisenet open platform	ONVIF PROFILE S/G/T/M SUNAPI (HTTP API) Wisenet open platform	ONVIF PROFILE S/G/T/M SUNAPI (HTTP API) Wisenet open platform	ONVIF PROFILE S/G/T/M SUNAPI (HTTP API) Wisenet open platform	ONVIF PROFILE S/G/T/M SUNAPI (HTTP API) Wisenet open platform
Operating Temperature	-40 ~ +55 (-40 ~ +131 ) / Less than 90% RH * Start up should be done at above -30	-40 ~ +55 (-40F ~ +131F) / Less than 90% RH * Start up should be done at above -30	-25 ~ +50 (-13 ~ +122 ) / Less than 90% RH	-25 ~ +50 (-13 ~ +122 ) / Less than 90% RH	-10 ~ +55 (+14 ~ +131 ) / Less than 90% RH
Certification	IP66/IP67, IK10, NEMA4X	IP66/IP67/IP6K9K, IK10+, NEMA4X	IP52, IK10	IP52, IK10, Plenum rate	-
Power Consumption	PoE+: Max 20W, typical 17W 12VDC: Max 18W, typical 16W	PoE+: Max 20W, typical 17W 12VDC: Max 18.7W, typical 15W	PoE+: Max 20W, typical 16W 12VDC: Max 17.7W, typical 14W	PoE+: Max 20W, typical 16W 12VDC: Max 17.7W, typical 14W	PoE+: Max 16.5W, typical 12.5W 12VDC: Max 13.5W, typical 10.8W
Dimensions (WxHxD) / Weight	Ø91x 368.6mm (3.58" x 14.51") (Without sunshield) 2.48kg (5.47lb)	Ø180 x 125mm (Ø7.09" x 4.92") 1.9kg (4.19lb)	Ø160 x 125mm (Ø6.3" x 4.92") 1.6kg (3.53lb)	Ø205 x 163mm (Ø8.07" x 4.92") 1.95kg (4.30lb)	W 81 x H 67 x D 165mm (3.19" x 2.64" x 6.48") 880g (1.94lb)
Additional Features	AI : BestShot, Attributes (Person, Vehicle, Face, License plate)	AI : BestShot, Attributes (Person, Vehicle, Face, License plate)	AI : BestShot, Attributes (Person, Vehicle, Face, License plate)	AI : BestShot, Attributes (Person, Vehicle, Face, License plate)	AI : BestShot, Attributes (Person, Vehicle, Face, License plate)

NETWORK

ANALOG

PERIPHERAL

ACCESSORY



# Wisenet Road AI LPR Cameras



**PNO-A9081RLP**  
4K AI LPR IR Bullet Camera



**PNV-A9081RLP**  
4K AI LPR IR Vandal Dome Camera



**PNB-A9091RLPH**  
4K AI LPR Box Camera



**TNO-7180RLP**  
Global Shutter High Speed Camera

	PNO-A9081RLP		PNV-A9081RLP		PNB-A9091RLPH				TNO-7180RLP
Imaging Device	1/1.8" CMOS		1/1.8" CMOS		1/1.8" CMOS				1/1.8" CMOS, Global Shutter
Min. Illumination	Color: 0.05Lux (F1.6, 1/30sec) BW: 0Lux (IR LED on)		Color: 0.05Lux (F1.6, 1/30sec) BW: 0.005Lux (F1.6, 1/30sec), 0Lux (IR LED on)		Color: 0.03Lux (F1.2, 1/30sec) B/W : 0.003Lux (F1.2, 1/30sec)				Color: 0.1Lux (1/30sec, gain 48dB)
Video Output	CVBS: 1.0Vp-p, Micro USB Type B		CVBS: 1.0Vp-p, Micro USB Type B		CVBS: 1.0Vp-p, Micro USB Type B				CVBS: 1.0Vp-p, Micro USB Type B
Focal Length	4.5 ~ 10mm (2.2x) motorized varifocal		4.5 ~ 10mm (2.2x) motorized varifocal		-				6.8~120mm (18x) motorized varifocal
Angular Field of View	H:101.4° (Wide) ~ 45.5° (Tele) V:53.6° (Wide) ~ 25.5° (Tele) D:120.7° (Wide) ~ 52.3° (Tele)		H:101.4° (Wide) ~ 45.5° (Tele), V:53.6° (Wide) ~ 25.5° (Tele) D:120.7° (Wide) ~ 52.3° (Tele)		-				H: 54.5° (Wide) ~ 3.4° (Tele) V: 42.3° (Wide) ~ 2.5° (Tele)
Pan / Tilt / Rotate	-		0°~ 360°/ -45°~ 85°/ 0°~ 355°		-				-
IR Viewable Length	30m (98.42ft)		30m (98.42ft)		-				WiseIR 50m (164ft)
Day & Night	Auto (ICR)		Auto (ICR)		Auto (ICR)				Auto (ICR)
Wide Dynamic Range	-		-		-				-
Digital Noise Reduction	SSNRV		SSNRV		SSNRV				SSNRV
Digital Image Stabilization	Stabilization Support (built-in gyro sensor)		Stabilization Support (built-in gyro sensor)		Stabilization Support (built-in gyro sensor)				Not Support
Analytics	Defocus detection, Motion detection, Tampering, Audio detection, Sound classification, Shock detection		Defocus detection, Motion detection, Tampering, Audio detection, Sound classification, Shock detection		Defocus detection, Motion detection, Tampering, Audio detection, Sound classification, Shock detection				Motion detection, Tampering, Virtual line (Crossing/Direction), Virtual Area (Loitering/Intrusion/Enter/Exit, Appear/Disappear)
Business Intelligence	-		-		-				-
Alarm I/O	1/1		1/1		1/1				4 configurable I/O ports
Audio I/O	Selectable (mic in/line in/built-in mic) / Line out		Line in / Line out		Line in / Line out				Line in / Line out
Video Compression	H.265 / H.264, MJPEG		H.265 / H.264, MJPEG		H.265 / H.264, MJPEG				H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	8MP / 30fps		8MP / 30fps		8MP / 30fps				3M / 55fps, 2M / 60fps
WiseStream	WiseStreamII		WiseStreamII		WiseStreamII				WiseStreamII
Streaming	Up to 3 profiles		Up to 3 profiles		Up to 3 profiles				Up to 10 profiles
Edge Storage	Pre-installed with 32GB micro SD to support 10,000 LPR images		Pre-installed with 32GB micro SD to support 10,000 LPR images		Pre-installed with 32GB micro SD to support 10,000 LPR images				Micro SD/SDHC/SDXC 1 slot (32GB Card preinstalled)
Application Programming Interface	ONVIF Profile S/G/T, SUNAPI (HTTP API) Wisenet open platform		ONVIF Profile S/G/T, SUNAPI (HTTP API) Wisenet open platform		ONVIF Profile S/G/T, SUNAPI (HTTP API) Wisenet open platform				ONVIF Profile S/G/T, SUNAPI (HTTP API) Wisenet open platform v3.60
Operating Temperature	-40°C ~ +55°C (-40°F ~ +131°F) / Less than 90% RH * Start up should be done at above -30°C		-40°C ~ +55°C (-40°F ~ +131°F) / Less than 90% RH * Start up should be done at above -30°C		-10°C ~ +55°C (+14°F ~ +131°F) / Less than 90% RH				-40°C ~ +55°C (-40°F ~ +131°F) / Less than 95% RH *Cold start: -40°C
Certification	IP66/IP67, IK10, NEMA4X		IP66/IP67/IP6K9K, IK10+, NEMA4X		-				IP66, IK10+, NEMA4X, NEMA TS 2(2.2.8, 2.2.9)
Power Consumption	PoE+: Max 20W, typical 17W 12VDC: Max 18W, typical 16W		PoE+: Max 20W, typical 17W 12VDC: Max 18.7W, typical 15W		PoE+: Max 16.5W, typical 12.5W 12VDC: Max 13.5W, typical 10.8W				PoE+: Max 50W, Typical 27W 12VDC: Max 47.5W, Typical 25W
Dimensions (WxHxD) /Weight	Ø91 x 368.6mm (Ø3.58" x 14.51") (Without sunshield) 2.48kg (5.47lb)		Ø180 x 125mm (Ø7.09" x 4.92") 1.9kg (4.19lb)		W 81x H 67 x D 165mm (3.19" x 2.64" x 6.48") 880g (1.94lb)				W 81x H 67 x D 165mm (3.19" x 2.64" x 6.48") 880g (1.94lb)
	Wisenet Road AI		Wisenet Road AI		Wisenet Road AI				Wisenet Road AI
Solution	Community Traffic	Parking Application	Community Traffic	Parking Application	Parking	Community Traffic	City Traffic	Secondary Roads	City Traffic
Speed Description	Moderate Speed	Low speed	Moderate Speed	Low speed	Low speed	Moderate speed	Moderate speed	Moderate speed	Regular Speed
Lane Coverage	1 lane (3.6m/12ft Wide)	1 lane (3.6m/12ft Wide)	1 lane (3.6m/12ft Wide)	1 lane (3.6m/12ft Wide)	2 lanes (24ft w)	2 Lanes (18ft w)	Up to 2 lanes	Up to 2 lanes	Up to 2 lanes
Speed limit	Up to 70kmh (45mph)	Up to 70kmh (45mph)	Up to 70kmh (45mph)	Up to 40kmh (25mph)	25mph	45mph	65mph	75mph	Up to 120kmh (75mph)
Min. Forward Distance	12m (38ft)	10m (33ft)	12m (38ft)	10m (33ft)	-	-	-	-	16m (52ft)
Max. Forward Distance	12m (40ft)	13m (45ft)	12m (40ft)	13m (45ft)	52ft	52ft	120ft	120ft	46m (150ft)
Max. Horizontal Angle	25°	30°	25°	30°	30°	25°	15°	25°	25°
Max. Vertical Angle	25°	30°	25°	30°	30°	25°	15°	25°	25°
Horizontal Offset	Up to 5m (18ft)	Up to 7m (24ft)	Up to 5m (18ft)	Up to 7m (24ft)	Up to 24ft	Up to 18ft	Up to 24ft	Up to 12ft	Up to 7m (24ft)
Camera Height	Up to 5m (18ft)	Up to 7m (24ft)	Up to 5m (18ft)	Up to 7m (24ft)	Up to 24ft	Up to 18ft	Up to 24ft	Up to 12ft	Up to 7m (24ft)
Vehicle Recognition	Make : 70+ / Model : 600+ / Color : 11		Make : 70+ / Model : 600+ / Color : 11		Make : 70+ / Model : 700+ / Color : 10				Make : 70+ / Model : 600+ / Color : 10



**PNM-C12083RVD**  
6MP x 2CH AI Multi-directional Camera



**PNM-C7083RVD**  
2MP x 2CH AI Multi-directional Camera



**PNM-C9022RV**  
2MP x 4CH AI Multi-directional Camera

Imaging Device	1/2.8" CMOS x 2CH	1/2.8" CMOS x 2CH	1/2.8" CMOS x 4CH
Min. Illumination	Color: 0.16Lux (F1.67, 1/30sec, 30IRE) BW: 0Lux (IR LED on)	Color: 0.035Lux (F2.2, 1/30sec, 30IRE) BW: 0Lux (IR LED on)	Color: 0.1Lux (F2.0, 1/30sec) BW: 0.01Lux (F2.0, 1/30sec), 0Lux (IR LED on)
Video Output	Micro USB Type B	Micro USB Type B	Micro USB Type B
Focal Length	3.54 ~ 6.69mm (1.9x) motorized varifocal	3 ~ 6mm (2x) motorized varifocal per CH	2.8mm fixed focal (x4)
Angular Field of View	H: 96°(Wide) ~ 47°(Tele) V: 51°(Wide) ~ 26°(Tele) D: 113°(Wide) ~ 54°(Tele)	H: 107°(Wide) ~ 56°(Tele) V: 57°(Wide) ~ 31°(Tele) D: 126°(Wide) ~ 64°(Tele)	H: 209°, V: 60°
Pan / Tilt / Rotate	0°~ 355°/0°~ 78°/0°~ 180°	0°~ 355°/0°~ 78°/0°~ 180°	0°~ 360°/0°~ 65°/ -
IR Viewable Length	25m (82ft)	25m (82ft)	20m (65.62ft)
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	extremeWDR (120dB)	extremeWDR (120dB)	extremeWDR (120dB)
Digital Noise Reduction	WiseNRIII(Based on AI engine), SSNRV	WiseNRII(Based on AI engine), SSNRV	WiseNRII(Based on AI engine), SSNRV
Digital Image Stabilization	-	-	-
Analytics	Classified object type : Person/Face/Vehicle/License plate Attributes : Vehicle (Type:car/bus/truck/motorcycle/bicycle) Support Bestshot Analytics events based on AI engine : Object detection, Virtual line (Crossing/Direction), Virtual area (Loitering/Intrusion/Enter/Exit) Analytics events*: Defocus detection, Motion detection, Tampering, Virtual area (Appear/Disappear) * Support Audio detection, Sound classification via optional SPM-4210 I/O box	Classified object type : Person/Face/Vehicle/License plate Attributes : Vehicle (Type:car/bus/truck/motorcycle/bicycle) Support Bestshot Analytics events based on AI engine : Object detection, Virtual line (Crossing/Direction), Virtual area (Loitering/Intrusion/Enter/Exit) Analytics events*: Defocus detection, Motion detection, Tampering, Virtual area (Appear/Disappear) * Support Audio detection, Sound classification via optional SPM-4210 I/O box	Classified object type : Person/Face/Vehicle/License plate Attributes : Vehicle (Type:car/bus/truck/motorcycle/bicycle) Support Bestshot Analytics events based on AI engine : Object detection, Virtual line (Crossing/Direction), Virtual area (Loitering/Intrusion/Enter/Exit) Analytics events*: Defocus detection, Motion detection, Tampering, Virtual area (Appear/Disappear)
Business Intelligence	-	-	-
Alarm I/O	* Support Alarm via optional SPM-4210 I/O box	* Support Alarm via optional SPM-4210 I/O box	2 configurable I/O ports
Audio I/O	* Audio in/out via optional SPM-4210 I/O box	* Audio in/out via optional SPM-4210 I/O box	Selectable (mic in/line in) / Line out
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265/H.264, MJPEG
Resolution / Max. Frame Rate	6MP / 15fps	2MP / 30fps	2MP / 20fps
WiseStream	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII (Based on AI engine)
Streaming	Unicast (10 users) / Multicast 5 profiles per channel	Unicast(10 users) / Multicast 5 profiles per channel	Unicast(10 users) / Multicast 3 profiles per channel
Edge Storage	micro SD/SDHC/SDXC 1slot Max. 512GB	micro SD/SDHC/SDXC 1slot Max. 512GB	micro SD/SDHC/SDXC 2slot Max. 1TB (512GB * 2)
Application Programming Interface	ONVIF Profile S/T SUNAPI (HTTP API) Open platform	ONVIF Profile S/T SUNAPI (HTTP API) Open platform	ONVIF Profile S/G/T/M SUNAPI (HTTP API) Wisenet open platform
Operating Temperature	-40°C ~ +55°C (-40°F ~ +131°F) / Less than 95% RH (Non-condensing)	-40°C ~ +55°C (-40°F ~ +131°F) / Less than 95% RH (Non-condensing)	-40°C ~ +55°C (-40°F ~ +131°F) / 0 ~ 95% RH (non-condensing)
Certification	IP66/IP67, NEMA4X, IK10	IP66/IP67, NEMA4X, IK10	IEC/EN 63000, IEC/EN 60529 IP66, IEC/EN 62262 IK10, NEMA 250 type 4X"
Power Consumption	PoE+: Max 21W, typical 16.5W	PoE+: Max 20W, typical 15.5W	PoE+: Max 24.5W, typical 11.3W 12VDC: Max 22.0W, typical 10.4W Power redundancy failover
Dimensions (WxHxD) / Weight	W 215 x H 135 x D 93.2mm (8.46"x5.31"x3.67") 1.33kg (2.93lb)	W 215 x H 135 x D 93.2mm (8.46"x5.31"x3.67") 1.33kg (2.93lb)	Ø253x170mm (Ø9.96"x 6.69") 2.9kg (6.39lb)



NEW AI

**QNV-C9083R**  
8MP IR Vandal Dome Camera



NEW AI

**QNO-C9083R**  
8MP IR Bullet Camera



NEW AI

**QNV-C8083R**  
5MP IR Vandal Dome Camera



NEW AI

**QNO-C8083R**  
5MP IR Bullet Camera

Imaging Device	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Min. Illumination	Color: 0.06Lux (F1.6, 1/30sec) BW: 0.006Lux (F1.6.1/30sec, 30IRE), 0Lux (IR LED on)	Color: 0.06Lux (F1.6, 1/30sec) BW: 0.006Lux (F1.6.1/30sec, 30IRE), 0Lux (IR LED on)	Color: 0.07Lux (F1.6, 1/30sec) BW: 0.007Lux(F1.6.1/30sec, 30IRE), 0Lux (IR LED on)	Color: 0.03Lux (F1.2, 1/30sec)
Video Output	Micro USB Type B	Micro USB Type B	Micro USB Type B	CVBS: 1.0Vp-p, Micro USB Type B
Focal Length	3.2~10.2mm (3.2x)	3.2~10.2mm (3.2x) motorized varifocal	3.2~10.2mm (3.2x) motorized varifocal	3.2~10.2mm (3.2x) motorized varifocal
Angular Field of View	H: 104°(Wide) ~ 31°(Tele) V: 55°(Wide) ~ 17°(Tele) D: 124°(Wide) ~ 35°(Tele)	H: 104°(Wide) ~ 31°(Tele) V: 55°(Wide) ~ 17°(Tele) D: 124°(Wide) ~ 35°(Tele)	H: 95°(Wide) ~ 29°(Tele) V: 69°(Wide) ~ 21°(Tele) D: 126°(Wide) ~ 36°(Tele)	H: 95°(Wide) ~ 29°(Tele) V: 69°(Wide) ~ 21°(Tele) D: 126°(Wide) ~ 36°(Tele)
Pan / Tilt / Rotate	0°~ 350° / -35°~ 70°/ 0°~ 355°	-	0°~ 350° / -35°~ 70°/ 0°~ 355°	-
IR Viewable Length	30m (98.42ft)	30m (98.42ft)	30m (98.42ft)	30m (98.42ft)
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	120dB	120dB	120dB	120dB
Digital Noise Reduction	WiseNR II (Based on AI engine), SSNRV	WiseNR II (Based on AI engine), SSNRV	WiseNR II (Based on AI engine), SSNRV	WiseNR II (Based on AI engine), SSNRV
Digital Image Stabilization	-	-	-	-
Analytics	Classified object type: Person/Vehicle Attributes: Vehicle (Type: car/bus/truck/motorcycle/bicycle) Support DetectionShot, Analytics events based on AI engine: Motion detection, Object detection, Virtual line (Crossing/Direction), Virtual area (Loitering/Intrusion/Enter/Exit) Analytics events: Defocus detection, Tampering, Virtual area (Appear/Disappear)	Classified object type: Person/Vehicle Attributes: Vehicle (Type: car/bus/truck/motorcycle/bicycle) Support DetectionShot, Analytics events based on AI engine: Motion detection, Object detection, Virtual line (Crossing/Direction), Virtual area (Loitering/Intrusion/Enter/Exit) Analytics events: Defocus detection, Tampering, Virtual area (Appear/Disappear)	Classified object type: Person/Vehicle Attributes: Vehicle (Type: car/bus/truck/motorcycle/bicycle) Support DetectionShot, Analytics events based on AI engine: Motion detection, Object detection, Virtual line (Crossing/Direction), Virtual area (Loitering/Intrusion/Enter/Exit) Analytics events: Defocus detection, Tampering, Virtual area (Appear/Disappear)	Classified object type: Person/Vehicle Attributes: Vehicle (Type: car/bus/truck/motorcycle/bicycle) Support DetectionShot, Analytics events based on AI engine: Motion detection, Object detection, Virtual line (Crossing/Direction), Virtual area (Loitering/Intrusion/Enter/Exit) Analytics events: Defocus detection, Tampering, Virtual area (Appear/Disappear)
Business Intelligence	-	-	-	-
Alarm I/O	1/1	1/1	1/1	1/1
Audio I/O	Selectable (Line in / Line out)	Selectable (Line in / Line out)	Selectable (Line in / Line out)	Selectable (Line in / Line out)
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	8MP / 30fps	8MP / 30fps	5MP / 30fps	5MP/30fps
WiseStream	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII
Streaming	Up to 5 profiles	Up to 5 profiles	Up to 5 profiles	Up to 5 profiles
Edge Storage	micro SD/SDHC/SDXC 1slot 256GB	micro SD/SDHC/SDXC 1slot 256GB	micro SD/SDHC/SDXC 1slot 256GB	micro SD/SDHC/SDXC 1slot 256GB
Application Programming Interface	ONVIF Profile S/G/T/M SUNAPI (HTTP API)	ONVIF Profile S/G/T/M SUNAPI (HTTP API)	ONVIF Profile S/G/T/M SUNAPI (HTTP API)	ONVIF Profile S/G/T/M SUNAPI (HTTP API)
Operating Temperature	-30°C ~ +55°C (-22°F ~ +131°F) 0~95% RH (non-condensing) * Start up above -30°C Humidity control w/ Air vent	-30°C ~ +55°C (-22°F ~ +131°F) 0~95% RH (non-condensing) * Start up above -30°C Humidity control w/ Air vent	-30°C ~ +55°C (-22°F ~ +131°F) 0~95% RH (non-condensing) * Start up above -30°C Humidity control w/ Air vent	-30°C ~ +55°C (-22°F ~ +131°F) 0~95% RH (non-condensing) * Start up above -30°C Humidity control w/ Air vent
Certification	IP66, IK10	IP66, IK10	IP66, IK10	IP66, IK10
Power Consumption	PoE: Max 12.95W, typical 5.3W	PoE: Max 12W, typical 5.3W	PoE: Max 12.95W, typical 5.3W	PoE: Max 12W, typical 5.3W
Dimensions (WxHxD) /Weight	Ø140 x 110.2mm (Ø5.51" x 4.34") 875g (1.93lb)	Ø93.4 x 125mm (Ø7.09" x 4.92") 1.9kg (4.19lb)	Ø140 x 110.2mm (Ø5.51" x 4.34") 875g (1.93lb)	Ø93.4 x 125mm (Ø7.09" x 4.92") 1.9kg (4.19lb)
Additional Features	Flip, Mirror, Hallway view (90° / 270°)	Flip, Mirror, Hallway view (90° / 270°)	Flip, Mirror, Hallway view (90° / 270°)	Flip, Mirror, Hallway view (90° / 270°)



**QNV-C9011R**  
8MP IR Vandal Dome Camera



**QNV-C8011R**  
5MP IR Vandal Dome Camera



**QNV-C8012**  
5MP IR Vandal Dome Camera

Imaging Device	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Min. Illumination	Color: 0.03Lux (F1.6, 1/30sec) BW: 0.003Lux (F1.6/30sec, 30IRE), 0Lux (IR LED on)	Color: 0.03Lux (F1.6, 1/30sec) BW: 0.003Lux (F1.6/30sec, 30IRE), 0Lux (IR LED on)	Color: 0.05Lux (F2.0, 1/30sec) BW: 0.05Lux (F2.0, 1/30sec, 30IRE)
Video Output	Micro USB Type B	Micro USB Type B	Micro USB Type B
Focal Length	3.00mm fixed focal	3.00mm fixed focal	2.4mm fixed focal
Angular Field of View	H: 108° / V: 59° / D: 127°	H: 100° / V: 73° / D: 129°	H: 123° / V: 91° / D: 159°
Pan / Tilt / Rotate	0°~ 350°/-35°~ 70°/0°~355°	0°~ 350°/-35°~ 70°/0°~355°	0°~ 350°/-35°~ 70°/0°~355°
IR Viewable Length	20m (65.62ft)	20m (65.62ft)	-
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	120dB	120dB	120dB
Digital Noise Reduction	WiseNRII(Based on AI engine), SSNRV	WiseNRII(Based on AI engine), SSNRV	WiseNRII(Based on AI engine), SSNRV
Digital Image Stabilization	-	-	-
Analytics	Classified object type: Person/Face/Vehicle/License plate Attributes: Vehicle (Type:car/bus/truck/motorcycle/bicycle) Support Bestshot Analytics events based on AI engine: Object detection, Virtual line (Crossing/Direction), Virtual area (Loitering/Intrusion/Enter/Exit) Analytics events*:Defocus detection, Motion detection, Tampering, Virtual area (Appear/Disappear)	Classified object type: Person/Face/Vehicle/License plate Attributes: Vehicle (Type:car/bus/truck/motorcycle/bicycle) Support Bestshot Analytics events based on AI engine: Object detection, Virtual line (Crossing/Direction), Virtual area (Loitering/Intrusion/Enter/Exit) Analytics events*:Defocus detection, Motion detection, Tampering, Virtual area (Appear/Disappear)	Classified object type: Person/Face/Vehicle/License plate Attributes: Vehicle (Type:car/bus/truck/motorcycle/bicycle) Support Bestshot Analytics events based on AI engine: Object detection, Virtual line (Crossing/Direction), Virtual area (Loitering/Intrusion/Enter/Exit) Analytics events*:Defocus detection, Motion detection, Tampering, Virtual area (Appear/Disappear)
Business Intelligence	Based on AI engine: People counting, Vehicle counting, Queue management, Heatmap	Based on AI engine: People counting, Vehicle counting, Queue management, Heatmap	Based on AI engine: People counting, Vehicle counting, Queue management, Heatmap
Alarm I/O			-
Audio I/O			-
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265/H.264, MJPEG
Resolution / Max. Frame Rate	8MP / 30fps	5MP / 30fps	5MP / 30fps
WiseStream	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII (Based on AI engine)
Streaming	Unicast (20 users) / Multicast Up to 5 profiles	Unicast(20 users) / Multicast Up to 5 profiles	Unicast(20 users) / Multicast Up to 5 profiles
Edge Storage	micro SD/SDHC/SDXC 1slot Max. 512GB	micro SD/SDHC/SDXC 1slot Max. 512GB	micro SD/SDHC/SDXC 1slot 256GB
Application Programming Interface	ONVIF Profile S/T/M SUNAPI (HTTP API)	ONVIF Profile S/T/M SUNAPI (HTTP API)	ONVIF Profile S/T/M SUNAPI (HTTP API)
Operating Temperature	-40°C ~ +55°C (-40°F ~ +131°F) / 0 ~ 95% RH*Start up should be done at above -30°C Humidity control w/ Air vapor control	-40°C ~ +55°C (-40°F ~ +131°F) / 0 ~ 95% RH*Start up should be done at above -30°C Humidity control w/ Air vapor control	-40°C ~ +55°C (-40°F ~ +131°F) / 0 ~ 95% RH*Start up should be done at above -30°C Humidity control w/ Air vapor control
Certification	IP66, IK10, NEMA4X	IP66, IK10, NEMA4X	IP66, IK10, NEMA4X
Power Consumption	PoE: Max 8.5W, typical 4.9W	PoE: Max 8.5W, typical 4.9W	PoE: Max 7W, typical 4.9W
Dimensions (WxHxD) / Weight	Ø110 x 77mm (Ø4.33" x 3.03") 522g (1.15lb)	Ø110 x 77mm (Ø4.33" x 3.03") 522g (1.15lb)	Ø110 x 77mm (Ø4.33" x 3.03") 522g (1.15lb)

NETWORK

ANALOG

PERIPHERAL

ACCESSORY



**TNM-C4960TD**  
Bi-spectrum AI Thermal Camera



**TNM-C4950TD**  
Bi-spectrum AI Thermal Camera

Imaging Device	Thermal	Visible	Thermal	Visible
		Uncooled micro bolometer	1/1.8" CMOS	Uncooled micro bolometer
Min. Illumination	-	Color: 0.06Lux (F1.7, 1/30sec) BW: 0.005Lux (F1.7, 1/30sec)	-	Color: 0.06Lux (F1.7, 1/30sec) BW: 0.005Lux (F1.7, 1/30sec)
Video Output	Micro USB Type B		Micro USB Type B	
Focal Length	25mm fixed focal	10.9~29mm (2.6x) motorized varifocal	13.5mm fixed focal	10.9~29mm (2.6x) motorized varifocal
Angular Field of View	H: 17.4°/ V: 13.1°/ D: 21.6°	H: 42°(Wide) ~ 15°(Tele) V: 22.8°(Wide) ~ 8.4°(Tele) D: 48.7°(Wide) ~ 17.1°(Tele)	H: 31.9°/ V: 24.2°/ D: 39.5°	H: 42°(Wide) ~ 15°(Tele) V: 22.8°(Wide) ~ 8.4°(Tele) D: 48.7°(Wide) ~ 17.1°(Tele)
Pan / Tilt / Rotate	-		-	
IR Viewable Length	-		-	
Day & Night	-	Auto (ICR)	-	Auto (ICR)
Wide Dynamic Range	-	WDR (120dB)	-	WDR (120dB)
Digital Noise Reduction	-	SSNRV, WiseNR II	-	SSNRV, WiseNR II
Digital Image Stabilization	-	Support (built-in gyro sensor)	-	Support (built-in gyro sensor)
Analytics	Analytics events: Directional detection, Motion detection, Enter/Exit, Virtual line, Temperature Change detection	Analytics events based on AI engine (NPU): Object detection (Person/Face/Vehicle (car/truck/bus/bicycle/ motorcycle)/License plate), Bestshot, IVA (Virtual line/Area, Enter/Exit, Loitering, direction, intrusion), Stopped vehicle, Traffic jam Analytics events: Defocus detection, Motion detection, Tampering, Audio detection, Sound classification, Shock detection, Appear/Disappear	Analytics events: Directional detection, Motion detection, Enter/Exit, Virtual line, Temperature Change detection	Analytics events based on AI engine (NPU): Object detection (Person/Face/Vehicle (car/truck/bus/bicycle/ motorcycle)/License plate), Bestshot, IVA (Virtual line/Area, Enter/Exit, Loitering, direction, intrusion), Stopped vehicle, Traffic jam Analytics events: Defocus detection, Motion detection, Tampering, Audio detection, Sound classification, Shock detection, Appear/Disappear
Business Intelligence	-		-	
Alarm I/O	4 configurable I/O ports		4 configurable I/O ports	
Audio I/O	Selectable (mic in/line in) / Line out		Selectable (mic in/line in) / Line out	
Video Compression	H.265 / H.264, MJPEG		H.265 / H.264, MJPEG	
Resolution / Max. Frame Rate	640 x 480 (can be scaled up to 1280 x 960) / 30fps	3840 x 2160 / 30fps	640 x 480 (can be scaled up to 1280 x 960) / 30fps	3840 x 2160 / 30fps
WiseStream	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII
Streaming	Up to 3 profiles		Up to 3 profiles	
Edge Storage	micro SD/SDHC/SDXC 2slots 512GB		micro SD/SDHC/SDXC 2slots 512GB	
Application Programming Interface	ONVIF Profile S/T SUNAPI (HTTP API) Wisenet open platform (visible channel only)		ONVIF Profile S/T SUNAPI (HTTP API) Wisenet open platform (visible channel only)	
Operating Temperature	-40°C ~ +60°C (-58°F ~ +140°F) * Start up should be done at above -30°C less than 95% RH (non-condensing)		-40°C ~ +60°C (-58°F ~ +140°F) * Start up should be done at above -30°C less than 95% RH (non-condensing)	
Certification	IP66/IP67, IK10, NEMA4X, NEMA TS 2 (2.2.8, 2.2.9)		IP66/IP67, IK10, NEMA4X, NEMA TS 2 (2.2.8, 2.2.9)	
Power Consumption	PoE+: Max 23.5W 12VDC: Max 19.5W		PoE+: Max 23.5W 12VDC: Max 19.5W	
Dimensions (WxHxD) / Weight	W 353.4 x H 287.5 x D 191.2mm (13.92" x 11.32" x 7.53") 4.53kg (9.99lb)		W 353.4 x H 287.5 x D 191.2mm (13.92" x 11.32" x 7.53") 4.53kg (9.99lb)	



**TNM-C4940TD**  
Bi-spectrum AI Thermal Camera



**TNB-9000**  
8K Box Camera

Imaging Device	Thermal	Visible	43.3mm Full-frame CMOS
	Uncooled micro bolometer	1/1.8" CMOS	
Min. Illumination	-	Color: 0.06Lux (F1.7, 1/30sec) BW: 0Lux (IR LED on)	Color: 0.015Lux (F1.4) BW: 0.0015Lux (F1.4)
Video Output	Micro USB Type B		HDMI
Focal Length	9.1mm fixed focal	4.4 ~ 9.3mm (2.2x) motorized varifocal	-
Angular Field of View	H: 50°/V: 37°/D: 63.8°	H: 112.1°(Wide) ~ 47.5°(Tele) V: 58°(Wide) ~ 26.6°(Tele) D: 137.5°(Wide) ~ 54.6°(Tele)	Canon 24mm, H: 57.4° Canon 35mm, H: 42.6° Canon 50mm, H: 30.9° Canon 85mm, H: 19.1° Canon 100mm, H: 16° Canon 70-200mm, H: 22.8°~ 8°
Pan / Tilt / Rotate	-		-
IR Viewable Length	-	30m (98.42ft)	-
Day & Night	-	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	-	WDR (120dB)	-
Digital Noise Reduction	-	SSNRV, WiseNR II	SSNRV
Digital Image Stabilization	-	Support (built-in gyro sensor)	-
Analytics	Analytics events : Directional detection, Motion detection, Enter/Exit, Virtual line, Temperature Change detection	Analytics events based on AI engine (NPU) : Object detection (Person/Face/Vehicle (car/truck/bus/bicycle/motorcycle)/License plate), Bestshot, IVA (Virtual line/Area, Enter/Exit, Loitering, direction, intrusion), Stopped vehicle, Traffic jam Analytics events : Defocus detection, Motion detection, Tampering, Audio detection, Sound classification, Shock detection, Appear/Disappear	Intelligent analytics, Audio detection, Sound classification
Business Intelligence	-		-
Alarm I/O	4 configurable I/O ports		1 / 1
Audio I/O	Selectable (mic in/line in) / Line out		Selectable (mic in/line in) / Line out
Video Compression	H.265 / H.264, MJPEG		H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	640 x 480 (can be scaled up to 1280 x 960) / 30fps	3840 x 2160 / 30fps	8K/15fps
WiseStream	WiseStreamII		WiseStreamII
Streaming	Up to 3 profiles		Up to 3 Profiles
Edge Storage	micro SD/SDHC/SDXC 2slots 512GB		micro SD/SDHC/SDXC
Application Programming Interface	ONVIF Profile S/T SUNAPI (HTTP API) Wisenet open platform (visible channel only)		ONVIF Profile S/G/T SUNAPI
Operating Temperature	-40°C ~ +60°C (-58°F ~ +140°F) * Start up should be done at above -30°C less than 95% RH (non-condensing)		0°C ~ +45°C (32°F ~ +122°F)
Certification	IP66/IP67, IK10, NEMA4X, NEMA TS 2 (2.2.8, 2.2.9)		EMC
Power Consumption	PoE+: Max 25.5W 12VDC: Max 21.5W		PoE: Max 30W, typical 20W 12VDC: Max 26W, typical 18W
Dimensions (WxHxD) / Weight	W 353.4 x H 287.5 x D 191.2mm (13.92" x 11.32" x 7.53") 4.53kg (9.99lb)		W 120 x H 118.5 x D 179mm (4.72" x 4.66" x 7.04") 2.2kg (4.85lb)
Additional Features	-		Super high resolution, Canon EF mount



**XNO-9082R**  
4K IR Bullet Camera



**XNV-9082R**  
4K IR Vandal Dome Camera



**XND-9082RF**  
4K IR Dome Camera



**XND-9082RV**  
4K IR Dome Camera



**XNB-9002**  
4K Box Camera

Imaging Device	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Min. Illumination	Color: 0.05Lux (F1.2, 1/30sec) B/W: 0Lux (IR LED On)	Color: 0.05Lux (F1.2, 1/30sec) B/W: 0Lux (IR LED On)	Color: 0.05Lux (F1.2, 1/30sec) B/W: 0Lux (IR LED On)	Color: 0.05Lux (F1.2, 1/30sec) B/W: 0Lux (IR LED On)	Color: 0.05Lux (F1.2, 1/30sec) B/W: 0.005Lux
Video Output	Micro USB Type B	Micro USB Type B	Micro USB Type B	Micro USB Type B	Micro USB Type B
Focal Length	2.8 ~ 8.4mm (3x) motorized varifocal	2.8 ~ 8.4mm (3x) motorized varifocal	2.8 ~ 8.4mm (3x) motorized varifocal	2.8 ~ 8.4mm (3x) motorized varifocal	-
Angular Field of View	H: 114° (Wide) ~ 40.2° (Tele) V: 62° (Wide) ~ 22.5° (Tele) D: 133° (Wide) ~ 46.3° (Tele)	H: 114° (Wide) ~ 40.2° (Tele) V: 62° (Wide) ~ 22.5° (Tele) D: 133° (Wide) ~ 46.3° (Tele)	H: 114° (Wide) ~ 40.2° (Tele) V: 62° (Wide) ~ 22.5° (Tele) D: 133° (Wide) ~ 46.3° (Tele)	H: 114° (Wide) ~ 40.2° (Tele) V: 62° (Wide) ~ 22.5° (Tele) D: 133° (Wide) ~ 46.3° (Tele)	-
Pan / Tilt / Rotate	-	0°~ 360°/-45°~ 85°/0°~ 355°	0°~ 360°/-45°~ 85°/0°~ 355°	0°~ 360°/-45°~ 85°/0°~ 355°	-
IR Viewable Length	40m (131.23ft)	40m (131.23ft)	40m (131.23ft)	40m (131.23ft)	-
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	extremeWDR (120dB)	extremeWDR (120dB)	extremeWDR (120dB)	extremeWDR (120dB)	ExtremeWDR (120dB)
Digital Noise Reduction	SSNRV	SSNRV	SSNRV	SSNRV	SSNRV
Digital Image Stabilization	Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)
Analytics	Intelligent analytics Audio detection Sound classification Audio Playback Shock detection Face/upper body detection	Intelligent analytics Audio detection Sound classification Audio Playback Shock detection Face/upper body detection	Intelligent analytics Audio detection Sound classification Audio Playback Shock detection Face/upper body detection	Intelligent analytics Audio detection Sound classification Audio Playback Shock detection Face/upper body detection	Intelligent analytics Audio detection Sound classification Audio Playback Shock detection Face/upper body detection
Business Intelligence	People counting, Queue management, Heatmap	People counting, Queue management, Heatmap	People counting, Queue management, Heatmap	People counting, Queue management, Heatmap	People counting, Queue management, Heatmap
Alarm I/O	2 configurable I/O ports	2 configurable I/O ports	2 configurable I/O ports	2 configurable I/O ports	2 configurable I/O ports
Audio I/O	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	Selectable (mic in/line in/Built-in mic) / Line out	Selectable (mic in/line in/Built-in mic) Supply voltage: 2.5VDC (4mA), Input impedance: 2K Ohm
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	4K / 30fps	4K / 30fps	4K / 30fps	4K / 30fps	4K / 30fps
WiseStream	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII
Streaming	Up to 10 profiles	Up to 10 profiles	Up to 10 profiles	Up to 10 profiles	Up to 10 profiles
Edge Storage	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC
Application Programming Interface	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform
Operating Temperature	-50°C ~ +60°C (-58°F ~ +140°F) / Less than 95% RH (non condensing) * Start up should be done at above -30°C	-50°C ~ +60°C (-58°F ~ +140°F) / Less than 95% RH (non condensing) * Start up should be done at above -30°C	-25°C ~ +60°C (-13°F ~ +140°F) / Less than 95% RH (non condensing)	-25°C ~ +60°C (-13°F ~ +140°F) / Less than 95% RH (non condensing)	-10°C ~ +55°C (+14°F ~ +131°F) / Less than 95% RH (non condensing)
Certification	IP66/IP67, IK10, NEMA4X	IP66/IP67/IP6K9K, IK10+, NEMA4X	IP52, Plenum rate, IK10	IP52, IK10	-
Power Consumption	PoE : Max 12.95W, typical 10.5W 12VDC : Max 12.5W, typical 9.4W 24VAC : Max 14.5W, typical 11.2W	PoE : Max 12.95W, typical 10.5W 12VDC : Max 12.5W, typical 9.4W 24VAC : Max 14.5W, typical 11.2W	PoE : Max 12.95W, typical 10.7W 12VDC : Max 11.5W, typical 9W	PoE : Max 12.95W, typical 10.7W 12VDC : Max 11.5W, typical 9W	PoE: Max 12.95W, typical 8.2W 12VDC: Max 11.5W, typical 7.5W 24VAC: Max 13.5W, typical 8.9W
Dimensions (WxHxD) /Weight	Ø91 x 368.6mm (Ø3.85" x 14.51") 2.2kg (4.85lb)	Ø180 x 125mm (Ø7.09" x 4.92") 1.9kg (4.18lb)	Ø205 x 163mm (Ø8.07" x 6.42") 1.95kg (4.29lb)	Ø160 x 125mm (Ø6.3" x 4.92") 1.6kg (3.52lb)	W 81 x H 67 x D 165mm (3.19" x 2.64" x 6.48") 880g (1.94lb)
Additional Features	UL CAP, Secure by Default	UL CAP, Secure by Default	UL CAP, Secure by Default	UL CAP, Secure by Default	UL CAP, Secure by Default



**XNO-8082R**  
6MP IR Bullet Camera



**XNV-8082R**  
6MP IR Vandal Dome Camera



**XND-8082RF**  
6MP IR Dome Camera



**XND-8082RV**  
6MP IR Dome Camera



**XNB-8002**  
6MP Box Camera

Imaging Device	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Min. Illumination	Color: 0.05Lux (F1.2, 1/30sec) B/W: 0Lux (IR LED On)	Color: 0.05Lux (F1.2, 1/30sec) B/W: 0Lux (IR LED On)	Color: 0.05Lux (F1.2, 1/30sec) B/W: 0Lux (IR LED On)	Color: 0.05Lux (F1.2, 1/30sec) B/W: 0Lux (IR LED On)	Color: 0.05Lux (F1.2, 1/30sec) B/W: 0.005Lux
Video Output	Micro USB Type B	Micro USB Type B	Micro USB Type B	Micro USB Type B	Micro USB Type B
Focal Length	2.8 ~ 8.4mm (3x) motorized varifocal	2.8 ~ 8.4mm (3x) motorized varifocal	2.8 ~ 8.4mm (3x) motorized varifocal	2.8 ~ 8.4mm (3x) motorized varifocal	-
Angular Field of View	H: 114° (Wide) ~ 40.2° (Tele) V: 62° (Wide) ~ 22.5° (Tele) D: 133° (Wide) ~ 46.3° (Tele)	H: 114° (Wide) ~ 40.2° (Tele) V: 62° (Wide) ~ 22.5° (Tele) D: 133° (Wide) ~ 46.3° (Tele)	H: 114° (Wide) ~ 40.2° (Tele) V: 62° (Wide) ~ 22.5° (Tele) D: 133° (Wide) ~ 46.3° (Tele)	H: 114° (Wide) ~ 40.2° (Tele) V: 62° (Wide) ~ 22.5° (Tele) D: 133° (Wide) ~ 46.3° (Tele)	-
Pan / Tilt / Rotate	-	0° ~ 360° / -45° ~ 85° / 0° ~ 355°	0° ~ 360° / -45° ~ 85° / 0° ~ 355°	0° ~ 360° / -45° ~ 85° / 0° ~ 355°	-
IR Viewable Length	40m (131.23ft)	40m (131.23ft)	40m (131.23ft)	40m (131.23ft)	-
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	extremeWDR	extremeWDR	extremeWDR	extremeWDR	extremeWDR
Digital Noise Reduction	SSNRV	SSNRV	SSNRV	SSNRV	SSNRV
Digital Image Stabilization	Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)
Analytics	Intelligent analytics, Audio detection, Sound classification, Audio Playback Shock detection, Face/upper body detection				
Business Intelligence	People counting, Queue management, Heatmap	People counting, Queue management, Heatmap	People counting, Queue management, Heatmap	People counting, Queue management, Heatmap	People counting, Queue management, Heatmap
Alarm I/O	2 configurable I/O ports	2 configurable I/O ports	2 configurable I/O ports	2 configurable I/O ports	2 configurable I/O ports
Audio I/O	Selectable (mic in/line in) / Line out	Selectable (mic in/line in/Built-in mic) / Line out	Selectable (mic in/line in/Built-in mic) / Line out	Selectable (mic in/line in/Built-in mic) / Line out	Selectable (mic in/line in/Built-in mic) / Line out
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	6MP / 30fps	6MP / 30fps	6MP / 30fps	6MP / 30fps	6MP / 30fps
WiseStream	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII
Streaming	Up to 10 profiles	Up to 10 profiles	Up to 10 profiles	Up to 10 profiles	Up to 10 profiles
Edge Storage	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC
Application Programming Interface	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform
Operating Temperature	-50°C ~ +60°C (-58°F ~ +140°F) / Less than 95% RH (non condensing) * Start up should be done at above -30°C	-50°C ~ +60°C (-58°F ~ +140°F) / Less than 95% RH (non condensing) * Start up should be done at above -30°C	-25°C ~ +60°C (-13°F ~ +140°F) / Less than 95% RH (non condensing)	-25°C ~ +60°C (-13°F ~ +140°F) / Less than 95% RH (non condensing)	-10°C ~ +55°C (+14°F ~ +131°F) / Less than 95% RH (non condensing)
Certification	IP66/IP67, IK10, NEMA4X	IP66/IP67/IP6K9K, IK10+, NEMA4X	IP52, Plenum rate, IK10	IP52, IK10	-
Power Consumption	PoE: Max 12.95W, typical 10.5W 12VDC: Max 12.5W, typical 9.4W 24VAC: Max 14.5W, typical 11.2W	PoE: Max 12.95W, typical 10.7W 12VDC: Max 11.5W, typical 9W 24VAC: Max 13.5W, typical 11W	PoE: Max 12.95W, typical 10.7W 12VDC: Max 11.5W, typical 9W	PoE: Max 12.95W, typical 10.7W 12VDC: Max 11.5W, typical 9W	PoE: Max 12.95W, typical 8.2W 12VDC: Max 11.5W, typical 7.5W 24VAC: Max 13.5W, typical 8.9W
Dimensions (WxHxD) /Weight	Ø91 x 368.6mm (Ø3.85" x 14.51") 2.2kg (4.85lb)	Ø180 x 125mm (Ø7.09" x 4.92") 1.9kg (4.18lb)	Ø205 x 163mm (Ø8.07" x 6.42") 1.95kg (4.29lb)	Ø160 x 125mm (Ø6.3" x 4.92") 1.6kg (3.52lb)	W81 x H67 x D165mm (3.19" x 2.64" x 6.48") 880g (1.94lb)
Additional Features	UL CAP, Secure by Default	UL CAP, Secure by Default	UL CAP, Secure by Default	UL CAP, Secure by Default	UL CAP, Secure by Default





**XNV-8081RE**  
5MP IR Vandal Dome Camera



**XND-8081REV**  
5MP IR Dome Camera



**XNV-6081RE**  
2MP IR Vandal Dome Camera



**XND-6081REV**  
2MP IR Dome Camera



**XND-8081VZ**  
5MP Dome Camera

Imaging Device	1/1.8" CMOS	1/1.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/1.8" CMOS
Min. Illumination	Color: 0.07Lux (F1.3, 1/30sec) BW: 0Lux (IR LED)	Color: 0.07Lux (F1.3, 1/30sec) BW: 0Lux (IR LED on)	Color: 0.015Lux (F1.4, 1/30sec) BW: 0Lux (IR LED)	Color: 0.015Lux (F1.4, 1/30sec) BW: 0Lux (IR LED)	Color: 0.07Lux (F1.2) B/W: 0.007Lux (F1.2)
Video Output	Micro USB Type B	Micro USB Type B	Micro USB Type B	Micro USB Type B	Micro USB Type B
Focal Length	3.9 ~ 9.4mm (2.4x) motorized varifocal	3.9 ~ 9.4mm (2.4x) motorized varifocal	2.8 ~ 12mm (4.3x) motorized varifocal	2.8 ~ 12mm (4.3x) motorized varifocal	3.6 ~ 9.4mm (2.6x) motorized varifocal
Angular Field of View	H: 92.1°(Wide) ~ 38.7°(Tele) V: 67.2°(Wide) ~ 29°(Tele) D: 119.9°(Wide) ~ 48.6°(Tele)	H: 92.1° (Wide) ~ 38.7°(Tele) V: 67.2°(Wide) ~ 29°(Tele) D: 119.9° (Wide) ~ 48.6°(Tele)	H: 119.5°(Wide) ~ 27.9°(Tele) V: 62.8°(Wide) ~ 15.7°(Tele) D: 142.1° (Wide) ~ 32°(Tele)	H: 119.5°(Wide) ~ 27.9°(Tele) V: 62.8°(Wide) ~ 15.7°(Tele) D: 142.1°(Wide) ~ 32°(Tele)	H: 102.5°(Wide) ~ 38.7°(Tele) V: 74.2°(Wide) ~ 29°(Tele) D: 135.5°(Wide) ~ 48.6°(Tele)
Pan / Tilt / Rotate	0°~ 360°/ -45°~ 85°/ 0°~ 355°	0°~ 360°/ -45°~ 85°/ 0°~ 355°	0°~ 360°/ -45°~ 85°/ 0°~ 355°	0°~ 360°/ -45°~ 85°/ 0°~ 355°	±175°/ 0 ~ 85°/ ±175°(Remote)
IR Viewable Length	50m (164.04ft)	50m (164.04ft)	50m (164.04ft)	50m (164.04ft)	-
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	120dB	120dB	150dB	150dB	120dB
Digital Noise Reduction	SSNRV	SSNRV	SSNRV	SSNRV	SSNRV
Digital Image Stabilization	Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (Built-in Gyro sensor)
Analytics	Intelligent analytics Audio detection Sound classification Audio Playback Shock detection	Intelligent analytics Audio detection Sound classification Audio Playback Shock detection	Intelligent analytics Audio detection Sound classification Audio Playback Shock detection	Intelligent analytics Audio detection Sound classification Audio Playback Shock detection	Intelligent analytics Audio detection Sound classification Audio Playback Shock detection
Business Intelligence	-	-	-	-	-
Alarm I/O	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
Audio I/O	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	Selectable (mic in/line in), Built-in mic / Line out
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	5MP / 30fps	5MP / 30fps	2MP / 60fps	2MP / 60fps	5MP / 30fps
WiseStream	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII
Streaming	Up to 10 profiles	Up to 10 profiles	Up to 10 profiles	Up to 10 profiles	Up to 10 Profiles
Edge Storage	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC
Application Programming Interface	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform
Operating Temperature	-50°C ~ +60°C (-58°F ~ +140°F) / Less than 90% RH * Start up should be done at above -35°C	-25°C ~ +60°C (-13°F ~ +140°F) Less than 90% RH	-50°C ~ +60°C (-58°F ~ +140°F) / Less than 90% RH * Start up should be done at above -35°C	-25°C ~ +60°C (-13°F ~ +140°F) / Less than 90% RH	-25°C ~ +60°C (-13°F ~ +140°F)
Certification	IP66/IP67/IP6K9K, IK10+, NEMA4X	IP52, IK10	IP66/IP67/IP6K9K, IK10+, NEMA4X	IP52, IK10	IP52, IK10
Power Consumption	Max 25.5W (Main CAM + Extension CAM) Typical 10.2W (Main CAM) * PoE Out: Max 12.95W at 80meters using CAT5/5E cable	Max 25.5W (Main CAM + Extension CAM) Typical 10.2W (Main CAM) * PoE Out: Max 12.95W at 80meters using CAT5/5E cable	Max 25. W (Main CAM + Extension CAM) Typical 10.2W (Main CAM) * PoE Out: Max 12.95W at 80meters using CAT5/5E cable	Max 25.5W (Main CAM + Extension CAM) Typical 10.2W (Main CAM) * PoE Out: Max 12.95W at 80meters using CAT5/5E cable	PoE : Max 11W 12VDC : Max 9W
Dimensions (WxHxD) /Weight	Ø180 x 125mm (Ø7.09" x 4.92") 1.75kg (3.86lb)	Ø160 x 125mm (Ø6.3" x 4.92") 1.45kg (3.20lb)	Ø180 x 125mm (Ø7.09" x 4.92") 1.75kg (3.86lb)	Ø160 x 125mm (Ø6.3" x 4.92") 1.45kg (3.20lb)	Ø160 x 125mm (Ø6.3" x 4.92") 1.45kg (3.20lb)
Additional Features	PoE Extender Camera	PoE Extender Camera	PoE Extender Camera	PoE Extender Camera	Modular structure, Motorized PTRZ, Anti dust



**XND-8081FZ**  
5MP Flush Mount Dome Camera



**XND-8081RV**  
5MP IR Dome Camera



**XND-8081RF**  
5MP IR Flush Mount Dome Camera



**XNV-8081Z**  
5MP Vandal Dome Camera



**XNV-8081R**  
5MP IR Vandal Dome Camera

	XND-8081FZ 5MP Flush Mount Dome Camera	XND-8081RV 5MP IR Dome Camera	XND-8081RF 5MP IR Flush Mount Dome Camera	XNV-8081Z 5MP Vandal Dome Camera	XNV-8081R 5MP IR Vandal Dome Camera
Imaging Device	1/1.8" CMOS	1/1.8" CMOS	1/1.8" CMOS	1/1.8" CMOS	1/1.8" CMOS
Min. Illumination	Color : 0.07Lux (F1.2) B/W : 0.007Lux (F1.2)	Color : 0.07Lux (F1.3) B/W : 0Lux (IR LED on)	Color : 0.07Lux (F1.3) B/W : 0Lux (IR LED on)	Color : 0.07 Lux (F1.2) B/W : 0.007 Lux (F1.2)	Color : 0.07Lux (F1.3) BW : 0Lux (IR LED)
Video Output	Micro USB Type B	CVBS 1.0Vp-p, Micro USB Type B	CVBS 1.0Vp-p, Micro USB Type B	Micro USB Type B	CVBS 1.0Vp-p, Micro USB type B
Focal Length	3.6 ~ 9.4mm (2.6x) motorized varifocal	3.9 ~ 9.4mm (2.4x) motorized varifocal	3.9 ~ 9.4mm (2.4x) motorized varifocal	3.6 ~ 9.4mm (2.6x) motorized varifocal	3.9 ~ 9.4mm (2.4x) motorized varifocal
Angular Field of View	H : 102.5°(Wide) ~ 38.7°(Tele) V : 74.2°(Wide) ~ 29°(Tele) D : 135.5°(Wide) ~ 48.6°(Tele)	H : 92.1°(Wide) ~ 38.7°(Tele) V : 67.2°(Wide) ~ 29°(Tele) D : 119.9°(Wide) ~ 48.6°(Tele)	H : 92.1°(Wide) ~ 38.7°(Tele) V : 67.2°(Wide) ~ 29°(Tele) D : 119.9°(Wide) ~ 48.6°(Tele)	H : 102.5°(Wide) ~ 38.7°(Tele) V : 74.2°(Wide) ~ 29°(Tele) D : 135.5°(Wide) ~ 48.6°(Tele)	H : 92.1°(Wide) ~ 38.7°(Tele) V : 67.2°(Wide) ~ 29°(Tele) D : 119.9°(Wide) ~ 48.6°(Tele)
Pan / Tilt / Rotate	±175°/0 ~ 85°/±175° (Remote)	0°~ 360°/-45°~ 85°/0°~ 355°	0°~ 360°/-45°~ 85°/0°~ 355°	±175°/0 ~ 85°/±175°(Remote)	0°~ 360°/-45°~ 85°/0°~ 355°
IR Viewable Length	-	50m (164.04ft)	50m (164.04ft)	-	50m (164.04ft)
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	120dB	120dB	120dB	120dB	120dB
Digital Noise Reduction	SSNRV	SSNRV	SSNRV	SSNRV	SSNRV
Digital Image Stabilization	Support (Built-in Gyro sensor)	Support (Built-in Gyro sensor)	Support (Built-in Gyro sensor)	Support (Built-in Gyro sensor)	Support (Built-in Gyro sensor)
Analytics	Intelligent analytics Audio detection Sound classification Audio Playback Shock detection	Intelligent analytics Audio detection Sound classification Audio Playback Shock detection	Intelligent analytics Audio detection Sound classification Audio Playback Shock detection	Intelligent analytics Audio detection Sound classification Audio Playback Shock detection	Intelligent analytics Audio detection Sound classification Audio Playback Shock detection
Business Intelligence	-	-	-	-	-
Alarm I/O	1/1	1/1	1/1	1/1	1/1
Audio I/O	Selectable (mic in/line in) / Line out	Selectable (mic in/line in), Built-in mic / Line out	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	5MP / 30fps	5MP / 30fps	5MP / 30fps	5MP / 30fps	5MP / 30fps
WiseStream	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII
Streaming	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles
Edge Storage	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC
Application Programming Interface	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform
Operating Temperature	-25°C ~ +60°C (-13°F ~ +140°F)	-25°C ~ +60°C (-13°F ~ +140°F) / Less than 90% RH	-25°C ~ +60°C (-13°F ~ +140°F)	-50°C ~ +60°C (-58°F ~ +140°F) * Start up above -35°C (-31°F)	-50°C ~ +60°C (-58°F ~ +140°F) * Start up above -35°C (-31°F)
Certification	IP52, Plenum rate	IP52, IK10	IP52, Plenum rate	IP67, IP66, IP6K9K, IK10+, NEMA4X	IP67, IP66, IP6K9K, IK10+, NEMA4X
Power Consumption	PoE : Max 11W 12VDC : Max 9W	PoE : Max 12.95W 12VDC : Max 11.7W	PoE : Max 12.95W 12VDC : Max 11.7W	PoE : Max 12.3W 12VDC : Max 10W 24VAC : Max 12.3W	PoE : Max 12.95W 12VDC : Max 11.7W 24VAC : Max 14.9W
Dimensions (WxHxD) /Weight	Ø205 x 155mm (Ø8.07" x 6.1") 1.85kg (4.08lb)	Ø160 x 125mm (Ø6.3" x 4.92") 1.45kg (3.20lb)	Ø205 x 155mm (Ø8.07" x 6.1") 1.8kg (3.97lb)	Ø180 x 125mm (Ø7.1" x 4.9") 1.75kg (3.86lb)	Ø180 x 125mm (Ø7.1" x 4.9") 1.75kg (3.86lb)
Additional Features	Modular structure, Motorized PTRZ, Anti dust	Modular structure, Anti dust	Modular structure, Anti dust	Modular structure, Motorized PTRZ	Modular structure



**XND-6081V**  
2MP Dome Camera



**XND-6081F**  
2MP Flush Mount Dome Camera



**XND-6081VZ**  
2MP Dome Camera



**XND-6081FZ**  
2MP Flush Mount Dome Camera



**XND-6081RV**  
2MP IR Dome Camera

Imaging Device	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Min. Illumination	Color: 0.015Lux (F1.4) B/W: 0.0015Lux (F1.4)	Color: 0.015Lux (F1.4) B/W: 0.0015Lux (F1.4)	Color: 0.015Lux (F1.4) B/W: 0.0015Lux (F1.4)	Color: 0.015Lux (F1.4) B/W: 0.0015Lux (F1.4)	Color: 0.015 Lux (F1.4) B/W: 0Lux (IR LED on)
Video Output	CVBS 1.0Vp-p, Micro USB type B	CVBS 1.0Vp-p, Micro USB type B	Micro USB type B	Micro USB type B	CVBS 1.0Vp-p, Micro USB type B
Focal Length	2.8 ~ 12mm (4.3x) motorized varifocal	2.8 ~ 12mm (4.3x) motorized varifocal	2.8 ~ 12mm (4.3x) motorized varifocal	2.8 ~ 12mm (4.3x) motorized varifocal	2.8 ~ 12mm (4.3x) motorized varifocal
Angular Field of View	H: 119.5° (Wide) ~ 27.9° (Tele) V: 62.8° (Wide) ~ 15.7° (Tele) D: 142.1° (Wide) ~ 32° (Tele)	H: 119.5° (Wide) ~ 27.9° (Tele) V: 62.8° (Wide) ~ 15.7° (Tele) D: 142.1° (Wide) ~ 32° (Tele)	H: 119.5° (Wide) ~ 27.9° (Tele) V: 62.8° (Wide) ~ 15.7° (Tele) D: 142.1° (Wide) ~ 32° (Tele)	H: 119.5° (Wide) ~ 27.9° (Tele) V: 62.8° (Wide) ~ 15.7° (Tele) D: 142.1° (Wide) ~ 32° (Tele)	H: 119.5° (Wide) ~ 27.9° (Tele) V: 62.8° (Wide) ~ 15.7° (Tele) D: 142.1° (Wide) ~ 32° (Tele)
Pan / Tilt / Rotate	0°~ 360° / -45°~ 85° / 0°~ 355°	0°~ 360° / -45°~ 85° / 0°~ 355°	±175° / 0 ~ 85° / ±175° (Remote)	±175° / 0 ~ 85° / ±175° (Remote)	0°~ 360° / -45°~ 85° / 0°~ 355°
IR Viewable Length	-	-	-	-	50m (164.04ft)
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	150dB	150dB	150dB	150dB	150dB
Digital Noise Reduction	SSNRV	SSNRV	SSNRV	SSNRV	SSNRV
Digital Image Stabilization	Support (Built-in Gyro sensor)	Support (Built-in Gyro sensor)	Support (Built-in Gyro sensor)	Support	Support (Built-in Gyro sensor)
Analytics	Intelligent analytics Audio detection Sound classification Audio Playback Shock detection	Intelligent analytics Audio detection Sound classification Audio Playback Shock detection	Intelligent analytics Audio detection Sound classification Audio Playback Shock detection	Intelligent analytics Audio detection Sound classification Audio Playback Shock detection	Intelligent analytics Audio detection Sound classification Audio Playback Shock detection
Business Intelligence	-	-	-	-	-
Alarm I/O	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
Audio I/O	Selectable (mic in/line in), Built-in mic / Line out	Selectable (mic in/line in) / Line out	Selectable (mic in/line in), Built-in mic / Line out	Selectable (mic in/line in) / Line out	Selectable (mic in/line in), Built-in mic / Line out
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	2MP / 60fps	2MP / 60fps	2MP / 60fps	2MP / 60fps	2MP / 60fps
WiseStream	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII
Streaming	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles
Edge Storage	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC
Application Programming Interface	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform
Operating Temperature	-25°C ~ +60°C (-13°F ~ +140°F)	-25°C ~ +60°C (-13°F ~ +140°F)	-25°C ~ +60°C (-13°F ~ +140°F)	-25°C ~ +60°C (-13°F ~ +140°F)	-25°C ~ +60°C (-13°F ~ +140°F)
Certification	IP52, IK10	IP52, Plenum rate	IP52, IK10	IP52, Plenum rate	IP52, IK10
Power Consumption	PoE: Max 7W 12VDC: Max 5.4W	PoE: Max 7W 12VDC: Max 5.4W	PoE: Max 10W 12VDC: Max 8.5W	PoE: Max 10W 12VDC: Max 8.5W	PoE: Max 12.95W 12VDC: Max 10.8W
Dimensions (WxHxD) / Weight	Ø160 x 125mm (Ø6.3" x 4.92") 1.45kg (3.2lb)	Ø205 x 155mm (Ø8.07" x 6.1") 1.8kg (3.97lb)	Ø160 x 125mm (Ø6.3" x 4.92") 1.45kg (3.2lb)	Ø205 x 155mm (Ø8.07" x 6.1") 1.85kg (4.08lb)	Ø160 x 125mm (Ø6.3" x 4.92") 1.45kg (3.2lb)
Additional Features	Modular structure, Anti dust	Modular structure, Anti dust	Modular structure, Motorized PTRZ, Anti dust	Modular structure, Motorized PTRZ, Anti dust	Modular design, Anti dust



**XND-6081RF**  
2MP Flush Mount IR Dome Camera



**XNV-6081Z**  
2MP Vandal Dome Camera



**XNV-6081R**  
2MP IR Vandal Dome Camera



**XNV-6081**  
2MP Vandal Dome Camera



**XNB-8000**  
5MP Box Camera

Imaging Device	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/1.8" CMOS
Min. Illumination	Color: 0.015 Lux (F1.4) B/W: 0Lux (IR LED on)	Color: 0.015 lux (F1.4) B/W: 0.0015 Lux (F1.4)	Color: 0.015Lux (F1.4) B/W: 0Lux (IR LED)	Color: 0.015 Lux (F1.4) B/W: 0.0015 Lux (F1.4)	Color: 0.07Lux (F1.2) B/W: 0.007Lux (F1.2)
Video Output	CVBS 1.0Vp-p, Micro USB type B	Micro USB type B	CVBS 1.0Vp-p, Micro USB type B	CVBS 1.0Vp-p, Micro USB type B	CVBS 1.0Vp-p, Micro USB Type B
Focal Length	2.8 ~ 12mm (4.3x) motorized varifocal	2.8 ~ 12mm (4.3x) motorized varifocal	2.8 ~ 12mm (4.3x) motorized varifocal	2.8 ~ 12mm (4.3x) motorized varifocal	-
Angular Field of View	H: 119.5° (Wide) ~ 27.9° (Tele) V: 62.8° (Wide) ~ 15.7° (Tele) D: 142.1° (Wide) ~ 32° (Tele)	H: 119.5° (Wide) ~ 27.9° (Tele) V: 62.8° (Wide) ~ 15.7° (Tele) D: 142.1° (Wide) ~ 32° (Tele)	H: 119.5° (Wide) ~ 27.9° (Tele) V: 62.8° (Wide) ~ 15.7° (Tele) D: 142.1° (Wide) ~ 32° (Tele)	H: 119.5° (Wide) ~ 27.9° (Tele) V: 62.8° (Wide) ~ 15.7° (Tele) D: 142.1° (Wide) ~ 32° (Tele)	-
Pan / Tilt / Rotate	0° ~ 360° / -45° ~ 85° / 0° ~ 355	±175° / 0° ~ 85° / ±175° (Remote)	0° ~ 360° / -45° ~ 85° / 0° ~ 355	0° ~ 360° / -45° ~ 85° / 0° ~ 355°	-
IR Viewable Length	50m (164.04ft)	-	50m (164.04ft)	-	-
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	150dB	150dB	150dB	150dB	120dB
Digital Noise Reduction	SSNRV	SSNRV	SSNRV	SSNRV	SSNRV
Digital Image Stabilization	Support (Built-in Gyro sensor)	Support (Built-in Gyro sensor)	Support (Built-in Gyro sensor)	Support (Built-in Gyro sensor)	Support (Built-in Gyro sensor)
Analytics	Intelligent analytics Audio detection Sound classification Audio Playback Shock detection	Intelligent analytics Audio detection Sound classification Audio Playback Shock detection	Intelligent analytics Audio detection Sound classification Audio Playback Shock detection	Intelligent analytics Audio detection Sound classification Audio Playback Shock detection	Intelligent analytics Audio detection Sound classification
Business Intelligence	-	-	-	-	-
Alarm I/O	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
Audio I/O	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	Selectable (mic in/line in), Built-in mic / Line out
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	2MP / 60fps	2MP / 60fps	2MP / 60fps	2MP / 60fps	5MP / 30fps
WiseStream	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII
Streaming	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles
Edge Storage	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC
Application Programming Interface	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G, SUNAPI, Wisenet open platform
Operating Temperature	-25°C ~ +60°C (-13°F ~ +140°F)	-50°C ~ +60°C (-58°F ~ +140°F) * Start up above -35°C (-31°F)	-50°C ~ +60°C (-58°F ~ +140°F) * Start up above -35°C (-31°F)	-50°C ~ +60°C (-58°F ~ +140°F) * Start up above -35°C (-31°F)	-10°C ~ +55°C (+14°F ~ +131°F)
Certification	IP52, Plenum rate	IP67, IP66, IP6K9K, IK10+, NEMA4X	IP67, IP66, IP6K9K, IK10+, NEMA4X	IP67, IP66, IP6K9K, IK10+, NEMA4X	-
Power Consumption	PoE: Max 12.95W 12VDC: Max 10.8W	PoE: Max 11W 12VDC: Max 9.5W 24VAC: Max 11W	PoE: Max 12.95W 12VDC: Max 10.8W 24VAC: Max 13.3W	PoE: Max 7W 12VDC: Max 5.4W 24VAC: Max 7.1W	PoE: Max 8.5W 12VDC: Max 7.5W 24VAC: Max 8.5W
Dimensions (WxHxD) / Weight	Ø205 x 155mm (Ø8.07" x 6.1") 1.8kg (3.97lb)	Ø180 x 125mm (Ø7.1" x 4.9") 1.75kg (3.86lb)	Ø180 x 125mm (Ø7.1" x 4.9") 1.75kg (3.86lb)	Ø180 x 125mm (Ø7.1" x 4.9") 1.45kg (3.20lb)	W 73.1 x H 66.6 x D 147.8mm (2.88" x 2.62" x 5.82") 420g (0.93lb)
Additional Features	Modular design, Anti dust	Modular structure, Motorized PTRZ	Modular structure	Modular structure	Handover, Hallway View



**XNO-8080R**  
5MP IR Bullet Camera



**XNO-8020R/8030R/8040R**  
5MP IR Bullet Camera



**XND-8080R/8080RV**  
5MP IR Dome Camera



**XND-8020R/8030R/8040R**  
5MP IR Dome Camera



**XND-8020F**  
5MP Flush Mount Dome Camera

	XNO-8080R 5MP IR Bullet Camera	XNO-8020R/8030R/8040R 5MP IR Bullet Camera	XND-8080R/8080RV 5MP IR Dome Camera	XND-8020R/8030R/8040R 5MP IR Dome Camera	XND-8020F 5MP Flush Mount Dome Camera
Imaging Device	1/1.8" CMOS	1/1.8" CMOS	1/1.8" CMOS	1/1.8" CMOS	1/1.8" CMOS
Min. Illumination	Color: 0.07Lux (F1.3) B/W: 0Lux (IR LED on)	Color: 0.16Lux (F1.6) B/W: 0Lux (IR LED on)	Color: 0.07Lux (F1.3) B/W: 0Lux (IR LED on)	Color: 0.16Lux (F1.6) B/W: 0Lux (IR LED on)	Color: 0.16Lux (F1.6) B/W: 0.16Lux (F1.6)
Video Output	CVBS 1.0Vp-p, Micro USB Type B	CVBS 1.0Vp-p, Micro USB Type B	CVBS 1.0Vp-p, Micro USB type B	CVBS 1.0Vp-p, Micro USB type B	Micro USB type B
Focal Length	3.7 ~ 9.4mm (2.5x) motorized varifocal	3.7mm fixed (XNO-8020R) 4.6mm fixed (XNO-8030R) 7.0mm fixed (XNO-8040R)	3.9 ~ 9.4mm (2.4x) motorized varifocal	3.7mm fixed (XND-8020R) 4.6mm fixed (XND-8030R) 7.0mm fixed (XND-8040R)	3.7mm fixed
Angular Field of View	H: 100.2° (Wide) ~ 38.7° (Tele) V: 67.2° (Wide) ~ 29° (Tele) D: 119.9° (Wide) ~ 48.6° (Tele)	H: 97.5°/V: 71.9°/D: 126.2° (XNO-8020R) H: 77.9°/V: 57.9°/D: 98.7° (XNO-8030R) H: 50.7°/V: 37.8°/D: 63.8° (XNO-8040R)	H: 92.1° (Wide) ~ 38.7° (Tele) V: 67.2° (Wide) ~ 29° (Tele) D: 119.9° (Wide) ~ 48.6° (Tele)	H: 97.5°/V: 71.9°/D: 126.2° (XND-8020R) H: 77.9°/V: 57.9°/D: 98.7° (XND-8030R) H: 50.7°/V: 37.8°/D: 63.8° (XND-8040R)	H: 97.5°/V: 71.9°/D: 126.2°
Pan / Tilt / Rotate	-	-	0°~354°/0°~67°/0°~355°	0°~354°/0°~67°/0°~355°	0°~355°/0°~47°/0°~353°
IR Viewable Length	50m (164.04ft)	30m (98.43ft)	30m (98.43ft)	30m (98.43ft)	-
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (Electrical)
Wide Dynamic Range	120dB	120dB	120dB	120dB	-
Digital Noise Reduction	SSNRV	SSNRV	SSNRV	SSNRV	SSNRV
Digital Image Stabilization	Support	Support	Support	Support (Built-in Gyro sensor)	Support
Analytics	Intelligent analytics Audio detection Sound classification	Intelligent analytics Audio detection Sound classification	Intelligent analytics Audio detection Sound classification	Intelligent analytics Audio detection Sound classification	Intelligent analytics Audio detection Sound classification
Business Intelligence	-	People counting, Queue management, Heatmap	-	People counting, Queue management, Heatmap	People counting, Queue management, Heatmap
Alarm I/O	1 / 1	1 / 1	1 / 1	1 / 1	-
Audio I/O	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	Selectable (mic in/line in), Built-in mic / Line out	Built-in mic / -
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	5MP / 30fps	5MP / 30fps	5MP / 30fps	5MP / 30fps	5MP / 30fps
WiseStream	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII
Streaming	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles
Edge Storage	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC
Application Programming Interface	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G, SUNAPI, Wisenet open platform	ONVIF profile S/G, SUNAPI, Wisenet open platform
Operating Temperature	-40°C ~ +55°C (-40°F ~ +131°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -20°C (-4°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)
Certification	IP67, IP66, NEMA4X, IK10	IP67/IP66/NEMA4X, IK10	IK08	IK08	-
Power Consumption	PoE: Max 12.95W 12VDC: Max 12.5W 24VAC: Max 14.5W	PoE: Max 10.3W 12VDC: Max 9.3W	PoE: Max 10W 12VDC: Max 9W	PoE: Max 9W 12VDC: Max 8W	PoE: Max 4.7W
Dimensions (WxHxD) / Weight	Ø91 x 368.6mm (Ø6.3" x 4.67") 2.18kg (4.81lb)	Ø70 x 296mm (Ø2.76" x 11.65") 1.22kg (2.69lb)	Ø140.8 x 113mm (Ø5.54" x 4.45") 628g (1.38lb) (XND-8080R) 732g (1.61lb) (XND-8080RV)	Ø110 x 90mm (Ø4.33" x 3.54") 380g (0.84lb)	Ø98.9 x 129.1mm (Ø3.89" x 5.08") 275g (0.61lb)
Additional Features	Handover, Hallway View	Handover, Hallway View	Handover, Hallway View	Handover, Hallway View	Handover, Hallway View



**XNV-8080R**  
5MP IR Vandal Dome Camera



**XNV-8080RSA**  
5MP Stainless IR Vandal Dome Camera



**XNV-8020R/8030R/8040R**  
5MP IR Vandal Dome Camera



**XNF-9010RV/9010RVM**  
12MP IR Fisheye Camera

Imaging Device	1/1.8" CMOS	1/1.8" CMOS	1/1.8" CMOS	1/2.3" 12MP CMOS
Min. Illumination	Color: 0.07Lux (F1.3) B/W: 0Lux (IR LED on)	Color: 0.07Lux (F1.3) B/W: 0Lux (IR LED on)	Color: 0.16Lux (F1.6) B/W: 0Lux (IR LED on)	Color: 0.39 Lux (F2.2) B/W: 0Lux (IR LED on)
Video Output	CVBS 1.0Vp-p, Micro USB type B	CVBS 1.0Vp-p, Micro USB type B	CVBS 1.0Vp-p, Micro USB type B	CVBS: 1.0Vp-p, Micro USB Type B
Focal Length	3.9 ~ 9.4mm (2.4x) motorized varifocal	3.9 ~ 9.4mm (2.4x) motorized varifocal	3.7mm fixed (XNV-8020R) 4.6mm fixed (XNV-8030R) 7.0mm fixed (XNV-8040R)	1.08mm fixed focal
Angular Field of View	H: 92.1°(Wide) ~ 38.7°(Tele) V: 67.2°(Wide) ~ 29°(Tele) D: 119.9°(Wide) ~ 48.6°(Tele)	H: 92.1°(Wide) ~ 38.7°(Tele) V: 67.2°(Wide) ~ 29°(Tele) D: 119.9°(Wide) ~ 48.6°(Tele)	H: 97.5°/V: 71.9°/D: 126.2° (XNV-8020R) H: 77.9°/V: 57.9°/D: 98.7° (XNV-8030R) H: 50.7°/V: 37.8°/D: 63.8° (XNV-8040R)	H: 187° / V: 187° / D: 187°
Pan / Tilt / Rotate	0°~ 354°/0°~ 67°/0°~ 355°	0°~ 354°/0°~ 67°/0°~ 355°	0°~ 354°/0°~ 67°/0°~ 355°	-
IR Viewable Length	50m (164.04ft)	50m (164.04ft)	30m (98.43ft)	10m (32.8ft), Wise IR
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	120dB	120dB	120dB	extremeWDR (120dB)
Digital Noise Reduction	SSNRV	SSNRV	SSNRV	SSNRV
Digital Image Stabilization	Support	Support	Support (Built-in Gyro sensor)	-
Analytics	Intelligent analytics Audio detection Sound classification	Intelligent analytics Audio detection Sound classification	Intelligent analytics Audio detection Sound classification	Intelligent analytics Audio detection Sound classification
Business Intelligence	-	-	People counting, Queue management, Heatmap	People counting, Queue management, Heatmap
Alarm I/O	1/1	1/1	1/1	2 configured I / O
Audio I/O	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	Selectable (mic in/line in), Built-in mic / Line out
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	5MP / 30fps	5MP / 30fps	5MP / 30fps	3008 x 3008 / 30fps
WiseStream	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII
Streaming	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles
Edge Storage	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC
Application Programming Interface	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G, SUNAPI Wisenet open platform	ONVIF profile S/G, SUNAPI Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform
Operating Temperature	-40°C ~ +55°C (-40°F ~ +131°F)	-40°C ~ +55°C (-40°F ~ +131°F)	-30°C ~ +55°C (-22°F ~ +131°F)	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 95% RH
Certification	IP67, IP66, NEMA4X, IK10	IP66, NEMA4X, IP6K9K, IK10+	IP66, IP67, IK10	IP66, IK10, NEMA4X, EN50155 class T3 (XNF-9010RVM only)
Power Consumption	PoE: Max 12.95W 12VDC: Max 11.5W 24VAC: Max 14W	PoE: Max 12.95W 12VDC: Max 11.5W 24VAC: Max 14W	PoE: Max 9W 12VDC: Max 8W	PoE: Max 12.95W, typical 11W 12VDC: Max 11W, typical 9.1W
Dimensions (WxHxD) / Weight	Ø160 x 118.5mm (Ø6.3" x 4.67") 1.01kg (2.23lb)	Ø160 X 120.5mm (Ø6.38" x 4.74") 2.8kg (6.17lb)	Ø120 x 97.5mm (Ø4.72" x 3.84") 615g (1.36lb)	Ø160 x 72mm (Ø6.38" x 2.83") 1.1kg (2.43lb)
Additional Features	Handover, Hallway View	Handover, Hallway View	Handover, Hallway View	Various mode support (Original, Double panorama, Single panorama, Quad view) M12 Connector (XNF-9010RVM)



**XNF-9010RS**  
12MP Stainless IR Fisheye Camera



**XNF-8010R/8010RV/8010RVM**  
6MP IR Fisheye Camera



**XNB-6005**  
2MP Box Camera (extraLUX)



**XNB-6000**  
2MP Box Camera

Imaging Device	1/2.3" 12MP CMOS	1/1.8" CMOS	1/2" CMOS	1/2.8" CMOS
Min. Illumination	Color: 0.39 Lux (F2.2, 1/30sec) BW: 0Lux (IR LED on)	Color: 0.1Lux (F1.6) B/W: 0Lux (IR LED on)	Color: 0.006Lux (F1.2) B/W: 0.0006Lux (F1.2)	Color: 0.01Lux (F1.2) B/W: 0.001Lux (F1.2)
Video Output	CVBS: 1.0Vp-p, Micro USB Type B	CVBS 1.0Vp-p, Micro USB type B	CVBS 1.0Vp-p, Micro USB type B	CVBS 1.0Vpp, Micro USB type B
Focal Length	1.08mm fixed focal	1.6mm fixed	-	-
Angular Field of View	H: 187° / V: 187° / D: 187°	H: 192° / V: 192° / D: 192°	-	-
Pan / Tilt / Rotate	-	-	-	-
IR Viewable Length	9m (29.53ft), Wise IR	15m (49.21ft)	-	-
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	extremeWDR (120dB)	120dB	150dB	150dB
Digital Noise Reduction	SSNRV	SSNRV	SSNRV	SSNRV
Digital Image Stabilization	-	-	Support (Built-in Gyro sensor)	Support (Built-in Gyro sensor)
Analytics	Intelligent analytics Audio detection Sound classification	Intelligent analytics Audio detection Sound classification	Intelligent analytics Audio detection Sound classification	Intelligent analytics Audio detection Sound classification
Business Intelligence	People counting, Queue management, Heatmap	People counting, Queue management, Heatmap	-	-
Alarm I/O	2 configured I/O	1 / 1	1 / 1	1 / 1
Audio I/O	Selectable (mic in/line in) / Line out	Selectable (mic in/line in), Built-in mic / Line out	Selectable (mic in/line in), Built-in mic / Line out	Selectable (mic in/line in), Built-in mic / Line out
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	3008 x 3008 / 30fps	2048 x 2048 / 30fps	2MP / 60fps	2MP / 60fps
WiseStream	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII
Streaming	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles
Edge Storage	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	SD/SDHC/SDXC	SD/SDHC/SDXC
Application Programming Interface	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G, SUNAPI, Wisenet open platform	ONVIF profile S/G, SUNAPI, Wisenet open platform
Operating Temperature	-40°C ~ +50°C (-40°F ~ +122°F) / Less than 95% RH	-10°C ~ +55°C (+14°F ~ +131°F) (XNF-8010R) -40°C ~ +55°C (-40°F ~ +131°F) (XNF-8010RV/8010RVM)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)
Certification	IP66, IP67, IP6K9K, NEMA4X, IK10, IK10+ (it can resist impacts of 40 joules), NSF/ANSI Standard 169 – Special Purpose Food Equipment and Devices.	IP66, IK10 (XNF-8010RV/8010RVM)	-	-
Power Consumption	PoE: Max 12.95W, typical 11W 12VDC: Max 11W, typical 9.1W	PoE: Max 12W, 12VDC: Max 11W (XNF-8010R) PoE: Max 12.95W, 12VDC: Max 12W (XNF-8010RV/8010RVM)	PoE: Max 8.5W 12VDC: Max 8W 24VAC: Max 9W	PoE: Max 7.5W 12VDC: Max 6.5W 24VAC: Max 8W
Dimensions (WxHxD) / Weight	Ø167.9 x 72.1mm (Ø66.1" x 28.38") 2.98kg (6.57lb)	Ø146 x 54.8mm (Ø5.75" x 2.16") 730g (1.61lb) (XNF-8010R) Ø146 x 65.8mm (Ø5.75" x 2.59") 785g (1.73lb) (XNF-8010RV) 790g (1.74lb) (XNF-8010RVM)	W 73.1 x H 66.6 x D 147.8mm (2.88" x 2.62" x 5.82") 420g (0.93lb)	W 73.1 x H 66.6 x D 147.8mm (2.88" x 2.62" x 5.82") 420g (0.93lb)
Additional Features	Various mode support (Original, Double panorama, Single panorama, Quad view)	M12 Connector (XNF-8010RVM), Built-in MIC, On board dewarpping	Handover, Hallway View	Handover, Hallway View



**XNB-6001**  
2MP Remote Head Camera



**SLA-T4680/T4680V**  
2MP lens for XNB-6001



**SLA-T2480/T2480V**  
2MP lens for XNB-6001



**SLA-T1080FA**  
2MP lens for XNB-6001

Imaging Device	-	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Min. Illumination	-	Color: 0.06Lux (F2.5) B/W: 0.06Lux (F2.5)	Color: 0.45Lux (F2.0) B/W: 0.45Lux (F2.0)	Color: 0.03Lux (F1.6)
Video Output	CVBS 1.0Vp-p, Micro USB type B	-	-	-
Focal Length	-	4.6mm Pinhole	2.4mm fixed	1.6mm fisheye
Angular Field of View	-	H: 73° / V: 39° / D: 85°	H: 138° / V: 73° / D: 168°	H: 187° / V: 113.9°
Pan / Tilt / Rotate	-	-	-	-
IR Viewable Length	-	-	-	-
Day & Night	-	Auto (Electrical)	Auto (Electrical)	Auto (Electrical)
Wide Dynamic Range	120dB	-	-	-
Digital Noise Reduction	SSNR V	-	-	-
Digital Image Stabilization	Support	-	-	-
Analytics	Intelligent analytics Audio detection	-	-	-
Business Intelligence	People counting, Queue management, Heatmap	-	-	-
Alarm I/O	1 / 1	-	-	-
Audio I/O	Selectable (mic in/line in) / Line out	-	-	-
Video Compression	H.265 / H.264, MJPEG	-	-	-
Resolution / Max. Frame Rate	2MP / 60fps	-	-	-
WiseStream	WiseStreamII	-	-	-
Streaming	Up to 10 Profiles	-	-	-
Edge Storage	SD/SDHC/SDXC	-	-	-
Application Programming Interface	ONVIF profile S/G, SUNAPI, Wisenet open platform	-	-	-
Operating Temperature	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)
Certification	-	-	-	-
Power Consumption	PoE: Max 6W 12VDC: Max 6.5W	-	-	-
Dimensions (WxHxD) / Weight	W 131.1 x H 28 x D 86mm (5.16" x 1.1" x 3.39") 245g (0.54lb)	Ø24 x 42mm (Ø0.94" x 1.65") (Lens) 8m (314.96") (Cable) 310g (0.68lb) (SLA-T4680) 30 x 20.2 x 45mm (1.18" x 0.8" x 1.77") (Lens) 8m (314.96") (Cable) 321g (0.71lb) (SLA-T4680V)	Ø24 x 49.8mm (Ø0.94" x 1.96") (Lens) 8m (314.96") (Cable) 318g (0.70lb) (SLA-T2480) 30 x 27.9 x 45mm (1.18" x 0.1" x 1.77") (Lens) 8m (314.96") (Cable) 328g (0.72lb) (SLA-T2480V)	Ø35 x 68.9mm (Ø1.38" x 2.71") (Lens) 8m (314.96") (Cable) 321g (0.71lb)
Additional Features	Handover, Hallway View	-	-	-





**XNO-6120R**  
2MP IR Bullet Camera



**XNO-6085R**  
2MP IR Bullet Camera (extraLUX)



**XNO-6080R**  
2MP IR Bullet Camera



**XNO-L6080R**  
2MP IR Bullet Camera



**XNO-6010R/6020R**  
2MP IR Bullet Camera



**XNO-6120R/LPR**  
2MP LPR Bullet Camera

Imaging Device	1/2.8" CMOS	1/2" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Min. Illumination	Color: 0.03Lux (F1.6) B/W: 0Lux (IR LED on)	Color: 0.004Lux (F0.94) B/W: 0Lux (IR LED on)	Color: 0.015Lux (F1.4) B/W: 0Lux (IR LED on)	Color: 0.03lux (F1.6) B/W: 0Lux (IR LED on)	Color: 0.055Lux (F2.0) (XNO-6010R) Color: 0.015Lux (F1.4) (XNO-6020R) B/W: 0 Lux (IR LED On)	Color: 0.035Lux (F1.6) B/W: 0 Lux (IR LED On)
Video Output	CVBS 1.0Vp-p, Micro USB type B	CVBS 1.0Vp-p, Micro USB type B	CVBS 1.0Vp-p, Micro USB type B	CVBS 1.0Vp-p, Micro USB type B	CVBS 1.0Vp-p, Micro USB type B	CVBS 1.0Vp-p, Micro USB type B
Focal Length	5.2 ~ 62.4mm (Optical 12x)	4.1 ~ 16.4mm (Optical 4x) motorized varifocal	2.8 ~ 12mm (4.3x) motorized varifocal	3.2 ~ 10mm (3.1x) motorized varifocal	2.4mm fixed (XNO-6010R) 4mm fixed (XNO-6020R)	5.2 ~ 62.4mm (Optical 12x)
Angular Field of View	H: 54.58° (Wide) ~ 5.3° (Tele) V: 32.19° (Wide) ~ 3° (Tele) D: 61.4° (Wide) ~ 6.06° (Tele)	H: 100° (Wide) ~ 26.2° (Tele) V: 54° (Wide) ~ 14.8° (Tele) D: 116° (Wide) ~ 30° (Tele)	H: 119.5° (Wide) ~ 27.9° (Tele) V: 62.8° (Wide) ~ 15.7° (Tele) D: 142.1° (Wide) ~ 32° (Tele)	H: 109° (Wide) ~ 33.2° (Tele) V: 57.4° (Wide) ~ 18.7° (Tele) D: 132° (Wide) ~ 38° (Tele)	H: 139° / V: 73° / D: 167° (XNO-6010R) H: 88.6° / V: 47.5° / D: 104.8° (XNO-6020R)	H: 54.58° (Wide) ~ 5.30° (Tele) V: 32.19° (Wide) ~ 3.00° (Tele) D: 61.40° (Wide) ~ 6.06° (Tele)
Pan / Tilt / Rotate	-	-	-	-	-	-
IR Viewable Length	70m (229.66ft)	70m (229.66ft)	50m (164.04ft)	30m (98.42ft)	20m (65.62ft) (XNO-6010R) 30m (98.43ft) (XNO-6020R)	70m (229.66ft)
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	150dB	150dB	150dB	120dB	150dB	150dB
Digital Noise Reduction	SSNRV	SSNRV	SSNRV	SSNRV	SSNRV	SSNRV
Digital Image Stabilization	Support	Support	Support	Support	Support	Support
Analytics	Intelligent analytics Audio detection Sound classification	Intelligent analytics Audio detection Sound classification	Intelligent analytics Audio detection Sound classification	Intelligent analytics	Intelligent analytics Audio detection Sound classification	Intelligent analytics Audio detection, Directional detection, Sound classification
Business Intelligence	-	-	-	-	People counting, Queue management, Heatmap	-
Alarm I/O	1 / 1	1 / 1	1 / 1	-	1 / 1	1 / 1
Audio I/O	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	-	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	2MP / 60fps	2MP / 60fps	2MP / 60fps	2MP / 60fps	2MP / 60fps	2MP / 60fps
WiseStream	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamI	WiseStreamII	WiseStreamII
Streaming	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles	Up to 5 Profiles	Up to 10 Profiles	Unicast / Multicast (20 users at Unicast)
Edge Storage	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	-
Application Programming Interface	ONVIF profile S/G, SUNAPI, Wisenet open platform	ONVIF profile S/G, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform
Operating Temperature	-40°C ~ +55°C (-40°F ~ +131°F) * Start up above -35°C (-31°F)	-40°C ~ +55°C (-40°F ~ +131°F) * Start up above -35°C (-31°F)	-40°C ~ +55°C (-40°F ~ +131°F)	-40°C ~ +55°C (-40°F ~ +131°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -20°C	-40°C ~ +55°C (-40°F ~ +131°F) * Start up above -35°C (-31°F)
Certification	IP67, IP66, NEMA 4X, IK10	IP67, IP66, NEMA 4X, IK10	IP67, IP66, NEMA 4X, IK10	IP66, IK10	IP67, IP66, NEMA 4X, IK10	IP67, IP66, NEMA 4X, IK10
Power Consumption	PoE: Max 12.95W 12VDC: Max 12.5W 24VAC: Max 14.5W	PoE: Max 12.95W 12VDC: Max 11.5W 24VAC: Max 12.95W	PoE: Max 12.95W 12VDC: Max 12W 24VAC: Max 15W	PoE: Max. 11W	PoE: Max 9.7W 12VDC: Max 8.8W	PoE: Max 12.95W 12VDC: Max 12.5W 24VAC: Max 14.5W
Dimensions (WxHxD) / Weight	Ø91 x 368.6mm (Ø3.58" x 14.51") 2.18kg (4.81lb)	Ø91 x 388.6mm (Ø3.58" x 15.3") 2.35kg (5.18lb)	Ø91 x 368.6mm (Ø3.58" x 14.51") 2.18kg (4.81lb)	Ø91 x 322.9mm (Ø3.58" x 12.71") 1.29kg (4.25lb)	Ø70 x 301.5mm (Ø2.76" x 11.87") (XNO-6010R) Ø70 x 296mm (Ø2.76" x 11.65") (XNO-6020R) 1.22kg (2.69lb)	Ø91 x 368.6mm (Ø3.58" x 14.51") 2.18kg (4.81lb)
Additional Features	Handover, Hallway View	Handover, Hallway View	Handover, Hallway View	Handover, Hallway View	Handover, Hallway View	Hallway View, License Plate Recognition



XND-6085/6085V  
2MP Dome Camera (extraLUX)



XND-6080/6080V  
2MP Dome Camera



XND-6080R/6080RV  
2MP IR Dome Camera



XND-L6080R/L6080RV  
2MP IR Dome Camera



XND-L6080V  
2MP Dome Camera

Imaging Device	1/2" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Min. Illumination	Color : 0.004Lux (F0.94) B/W : 0.0004Lux (F0.94)	Color : 0.015Lux (F1.4) B/W : 0.0015Lux (F1.4)	Color : 0.015Lux (F1.4) B/W : 0Lux (IR LED on)	Color : 0.03Lux (F1.6) B/W : 0Lux (IR LED on)	Color : 0.03Lux (F1.6) B/W : 0.01Lux (F1.6)
Video Output	CVBS 1.0Vp-p, Micro USB type B	CVBS 1.0Vp-p, Micro USB type B	CVBS 1.0Vp-p, Micro USB type B	CVBS 1.0Vp-p, Micro USB type B	CVBS 1.0Vp-p, Micro USB type B
Focal Length	4.1~16.4mm (Optical 4x)	2.8~12mm (4.3x) motorized varifocal	2.8~12mm (4.3x) motorized varifocal	3.2~10mm (3.1x) motorized varifocal	3.2~10mm (3.1x) motorized varifocal
Angular Field of View	H : 100° (Wide) ~ 26.2° (Tele) V : 54° (Wide) ~ 14.8° (Tele) D : 116° (Wide) ~ 30° (Tele)	H : 119.5° (Wide) ~ 27.9° (Tele) V : 62.8° (Wide) ~ 15.7° (Tele) D : 142.1° (Wide) ~ 32° (Tele)	H : 119.5° (Wide) ~ 27.9° (Tele) V : 62.8° (Wide) ~ 15.7° (Tele) D : 142.1° (Wide) ~ 32° (Tele)	H : 109° (Wide) ~ 33.2° (Tele) V : 57.4° (Wide) ~ 18.7° (Tele) D : 132° (Wide) ~ 38° (Tele)	H : 109° (Wide) ~ 33.2° (Tele) V : 57.4° (Wide) ~ 18.7° (Tele) D : 132° (Wide) ~ 38° (Tele)
Pan / Tilt / Rotate	±175° / ±73° / ±175°	0°~354°/0°~67°/0°~355°	0°~354°/0°~67°/0°~355°	0°~354°/0°~67°/0°~355°	0°~354°/0°~67°/0°~355°
IR Viewable Length	-	-	30m (98.43ft)	30m (98.42ft)	-
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	-	150dB	150dB	120dB	120dB
Digital Noise Reduction	SSNRV	SSNRV	SSNRV	SSNRV	SSNRV
Digital Image Stabilization	Support (Built-in Gyro sensor)	Support	Support	Support	Support
Analytics	Intelligent analytics Audio detection Sound classification	Intelligent analytics Audio detection Sound classification	Intelligent analytics Audio detection Sound classification	Intelligent analytics	Intelligent analytics
Business Intelligence	-	-	-	-	-
Alarm I/O	1 / 1	1 / 1	1 / 1	-	-
Audio I/O	Selectable (mic in/line in) / Line out	Selectable (mic in/line in), Built-in mic / Line out	Selectable (mic in/line in), Built-in mic / Line out	-	-
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	2MP / 60fps	2MP / 60fps	2MP / 60fps	2MP / 60fps	2MP / 60fps
WiseStream	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII
Streaming	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles	Up to 5 Profiles	Up to 5 Profiles
Edge Storage	SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC
Application Programming Interface	ONVIF profile S/G, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G, SUNAPI, Wisenet open platform	ONVIF profile S/G, SUNAPI, Wisenet open platform
Operating Temperature	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -10°C (+14°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)
Certification	IK08	IK08	IK08	IK08	IK08
Power Consumption	PoE : Max 10.2W 12VDC : Max 8.6W	PoE : Max 6.5W 12VDC : Max 6W	PoE : Max 10W 12VDC : Max 9W	PoE : Max 8W	PoE : Max 6W
Dimensions (WxHxD) Weight	Ø160 x 140mm (Ø6.3" x 5.51") 1.1 kg (2.43lb) (XND-6085) 1.25 kg (2.76lb) (XND-6085V)	Ø140.8 x 113mm (Ø5.54" x 4.45") 610g (1.34lb) (XND-6080) 714g (1.57lb) (XND-6080V)	Ø140.8 x 113mm (Ø5.54" x 4.45") 624g (1.38lb) (XND-6080R) 724g (1.60lb) (XND-6080RV)	Ø140.8 x 113mm (Ø5.54" x 4.45") 580g (1.28lb) (XND-L6080R) 690g (1.52lb) (XND-L6080RV)	Ø140.8 x 113mm (Ø5.54" x 4.45") 675g (1.49lb)
Additional Features	Handover, Hallway View	Handover, Hallway View	Handover, Hallway View	Defog, Hallway View	Defog, Hallway View



**XND-6020R**  
2MP IR Dome Camera



**XND-6011F**  
2MP Flush Mount Dome Camera



**XND-6010**  
2MP Dome Camera



**XNV-6120R/6120R**  
2MP Vandal / IR Vandal Dome Camera



**XNV-6120R/LPR**  
2MP Vandal-Resistant LPR Dome Camera

Imaging Device	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Min. Illumination	Color: 0.015 Lux (F1.4) B/W: 0Lux (IR LED on)	Color: 0.055Lux (F2.0) B/W: 0.055Lux (F2.0)	Color: 0.055Lux (F2.0) B/W: 0.055Lux (F2.0)	Color: 0.03Lux (F1.6), B/W: 0.003Lux (F1.6) (XNV-6120) Color: 0.03Lux (F1.6), B/W: 0Lux (IR LED on) (XNV-6120R)	Color: 0.03Lux (F1.6) B/W: 0Lux (IR LED on)
Video Output	CVBS 1.0Vp-p, Micro USB type B	Micro USB type B	CVBS 1.0Vp-p, Micro USB type B	CVBS 1.0Vp-p, Micro USB type B	CVBS 1.0Vp-p, Micro USB type B
Focal Length	4mm fixed	2.8mm fixed	2.4mm fixed	5.2 ~ 62.4mm (Optical 12x)	5.2 ~ 62.4mm (Optical 12x)
Angular Field of View	H: 88.6° / V: 47.5° / D: 104.8°	H: 112° / V: 62° / D: 130°	H: 139° / V: 73° / D: 167°	H: 54.58° (Wide) ~ 5.3° (Tele) V: 32.19° (Wide) ~ 3° (Tele) D: 61.4° (Wide) ~ 6.06° (Tele)	H: 54.58° (Wide) ~ 5.3° (Tele) V: 32.19° (Wide) ~ 3° (Tele) D: 61.4° (Wide) ~ 6.06° (Tele)
Pan / Tilt / Rotate	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 355° / 0° ~ 47° / 0° ~ 353°	0° ~ 354° / 0° ~ 75° / 0° ~ 355°	0° ~ 354° / 0° ~ 75° / 0° ~ 355°	0° ~ 354° / 0° ~ 75° / 0° ~ 355°
IR Viewable Length	30m (98.43ft)	-	-	70m (229.66ft) (XNV-6120R)	70m (229.66ft), max. plate distance for IR 40ft
Day & Night	Auto (ICR)	Auto (Electrical)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	150dB	-	150dB	150dB	150dB
Digital Noise Reduction	SSNRV	SSNRV	SSNRV	SSNRV	SSNRV
Digital Image Stabilization	Support	Support	Support	Support (Built-in Gyro sensor)	Support
Analytics	Intelligent analytics Audio detection Sound classification	Intelligent analytics Audio detection Sound classification	Intelligent analytics Audio detection Sound classification	Intelligent analytics Audio detection Sound classification	Intelligent analytics Audio detection Sound classification
Business Intelligence	People counting, Queue management, Heatmap	People counting, Queue management, Heatmap	People counting, Queue management, Heatmap	-	-
Alarm I/O	1 / 1	-	1 / 1	1 / 1	1 / 1
Audio I/O	Selectable (mic in/line in), Built-in mic / Line out	Built-in mic / -	Selectable (mic in/line in), Built-in mic / Line out	Selectable (mic in/line in) / Line out	Selectable (mic in/line in), Built-in mic / Line out
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	2MP / 60fps	2MP / 60fps	2MP / 60fps	2MP / 60fps	2MP / 60fps
WiseStream	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII
Streaming	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles	Unicast / Multicast (20 users at Unicast)
Edge Storage	SD/SDHC/SDXC	SD/SDHC/SDXC	micro SD/SDHC/SDXC	SD/SDHC/SDXC	micro SD/SDHC/SDXC
Application Programming Interface	ONVIF profile S/G, SUNAPI, Wisenet open platform	ONVIF profile S/G, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform
Operating Temperature	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-40°C ~ +55°C (-40°F ~ +131°F) * Start up above -35°C (-31°F)	-40°C ~ +55°C (-40°F ~ +131°F) * Start up above -35°C (-31°F)
Certification	IK08	-	IK08	IP67, IP66, NEMA 4X, IK10	IP67 / IP66, NEMA 4x, IK10
Power Consumption	PoE: Max 9W 12VDC: Max 8W	PoE: Max 4.7W	PoE: Max 6.5W 12VDC: Max 6W	PoE: Max. 7.8W, 12V DC: Max 7W, 24V AC: Max. 8.2W (XNV-6120) PoE: Max. 12.95W, 12V DC: Max. 11.5W, 24V AC: Max. 14W (XNV-6120R)	PoE: Max 12.95W 12VDC: Max 11.5W 24V AC: Max 14W
Dimensions (WxHxD) / Weight	Ø110 x 90mm (Ø4.33" x 3.54") 380g (0.84lb)	Ø98.9 x 129mm (Ø3.89" x 5.08") 275g (0.61lb)	Ø140.8 x 113mm (Ø5.54" x 4.45") 610g (1.34lb)	Ø160 x 128.5mm (Ø6.3" x 5.06") 985g (2.17lb) (XNV-6120) 995g (2.19lb) (XNV-6120R)	Ø160 x 128.45mm (Ø6.30" x 5.06") 995g (2.19lb)
Additional Features	Handover, Hallway View	Handover, Hallway View	Handover, Hallway View	Handover, Hallway View	Hallway View, License Plate Recognition



**XNV-6085**  
2MP Vandal Dome Camera (extraLUX)



**XNV-6080**  
2MP Vandal Dome Camera



**XNV-6080R**  
2MP IR Vandal Dome Camera



**XNV-6080RSA**  
2MP Stainless IR Vandal Dome Camera



**XNV-L6080**  
2MP Vandal Dome Camera

	XNV-6085	XNV-6080	XNV-6080R	XNV-6080RSA	XNV-L6080
Imaging Device	1/2" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Min. Illumination	Color: 0.004Lux (F0.94) B/W: 0.0004Lux (F0.94)	Color: 0.015Lux (F1.4) B/W: 0.015Lux (F1.4)	Color: 0.015Lux (F1.4) B/W: 0Lux (IR LED on)	Color: 0.015Lux (F1.4) B/W: 0Lux (IR LED on)	Color: 0.03Lux (F1.6) B/W: 0.01Lux (F1.6)
Video Output	CVBS 1.0Vp-p, Micro USB type B	CVBS 1.0Vp-p, Micro USB type B	CVBS 1.0Vp-p, Micro USB type B	CVBS 1.0Vp-p, Micro USB type B	CVBS 1.0Vp-p, Micro USB type B
Focal Length	4.1 ~ 16.4mm (Optical 4x)	2.8 ~ 12mm (4.3x) motorized varifocal	2.8 ~ 12mm (4.3x) motorized varifocal	2.8 ~ 12mm (4.3x) motorized varifocal	3.2 ~ 10mm (3.1x) motorized varifocal
Angular Field of View	H: 100° (Wide) ~ 26.2° (Tele) V: 54° (Wide) ~ 14.8° (Tele) D: 116° (Wide) ~ 30° (Tele)	H: 119.5° (Wide) ~ 27.9° (Tele) V: 62.8° (Wide) ~ 15.7° (Tele) D: 142.1° (Wide) ~ 32° (Tele)	H: 119.5° (Wide) ~ 27.9° (Tele) V: 62.8° (Wide) ~ 15.7° (Tele) D: 142.1° (Wide) ~ 32° (Tele)	H: 119.5° (Wide) ~ 27.9° (Tele) V: 62.8° (Wide) ~ 15.7° (Tele) D: 142.1° (Wide) ~ 32° (Tele)	H: 109° (Wide) ~ 33.2° (Tele) V: 57.4° (Wide) ~ 18.7° (Tele) D: 132° (Wide) ~ 38° (Tele)
Pan / Tilt / Rotate	±175° / ±73° / ±175°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°
IR Viewable Length	-	-	50m (164.04ft)	50m (164.04ft)	-
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	150dB	150dB	150dB	150dB	120dB
Digital Noise Reduction	SSNRV	SSNRV	SSNRV	SSNRV	SSNRV
Digital Image Stabilization	Support (Built-in Gyro sensor)	Support	Support	Support	Support
Analytics	Intelligent analytics Audio detection Sound classification	Intelligent analytics Audio detection, Sound classification	Intelligent analytics Audio detection, Sound classification	Intelligent analytics Audio detection, Sound classification	Intelligent analytics
Business Intelligence	-	-	-	-	-
Alarm I/O	1 / 1	1 / 1	1 / 1	1 / 1	-
Audio I/O	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	-
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	2MP / 60fps	2MP / 60fps	2MP / 60fps	2MP / 60fps	2MP / 60fps
WiseStream	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII
Streaming	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles	Up to 5 Profiles
Edge Storage	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC
Application Programming Interface	ONVIF profile S/G, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G, SUNAPI, Wisenet open platform	ONVIF profile S/G, SUNAPI, Wisenet open platform
Operating Temperature	-40°C ~ +55°C (-40°F ~ +131°F) * Start up above -35°C (-31°F)	-40°C ~ +55°C (-40°F ~ +131°F)	-40°C ~ +55°C (-40°F ~ +131°F)	-40°C ~ +55°C (-40°F ~ +131°F)	-40°C ~ +55°C (-40°F ~ +131°F)
Certification	IP67, IP66, NEMA 4X, IK10	IP67, IP66, NEMA 4X, IK10	IP67/IP66/NEMA4X, IK10	IP66, NEMA4X, IP6K9K, IK10+	IP66, IK10
Power Consumption	PoE: Max 12.1W 12VDC: Max 11.1W 24VAC: Max 13.5W	PoE: Max 7.8W 12VDC: Max 7W 24VAC: Max 8.2W	PoE: Max 12.95W 12VDC: Max 11.5W 24VAC: Max 14W	PoE: Max 12.95W 12VDC: Max 11.5W 24VAC: Max 14W	PoE: Max 8W
Dimensions (WxHxD) / Weight	Ø160 x 140mm (Ø6.3" x 5.51") 1.4kg (3.09lb)	Ø160 x 118.5mm (Ø6.3" x 4.67") 985g (2.17lb)	Ø160 x 118.5mm (Ø6.3" x 4.67") 995g (2.19lb)	Ø160 x 120.5mm (Ø6.38" x 4.74") 2.8kg (6.17lb)	Ø160 x 118.5mm (Ø6.3" x 4.67") 940g (2.1lb)
Additional Features	Handover, Hallway View	Handover, Hallway View	Handover, Hallway View	Handover, Hallway View	Handover, Hallway View



**XNV-L6080R**  
2MP IR Vandal Dome Camera



**XNV-6022R/6022RM**  
2MP Mobile IR Flat Camera



**XNV-6020R**  
2MP IR Vandal Dome Camera



**XNV-6013M**  
2MP Mobile Camera



**XNV-6012M/6012**  
2MP Mobile Flat Camera

Imaging Device	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Min. Illumination	Color: 0.03Lux (F1.6) B/W: 0Lux (IR LED on)	Color: 0.04Lux (F2.0) B/W: 0Lux (IR LED on)	Color: 0.015Lux (F1.4) B/W: 0Lux (IR LED on)	Color: 0.04Lux (F2.0) B/W: 0.04Lux (F2.0)	Color: 0.04Lux (F2.0) B/W: 0.04Lux (F2.0)
Video Output	CVBS 1.0Vp-p, Micro USB type B	Micro USB Type B	CVBS 1.0Vp-p, Micro USB type B	Micro USB Type B	Micro USB type B
Focal Length	3.2 ~ 10mm (3.1x) motorized varifocal	3.6mm fixed	4mm fixed	2.8mm fixed	2.4mm fixed
Angular Field of View	H: 109° (Wide) ~ 33.2° (Tele) V: 57.4° (Wide) ~ 18.7° (Tele) D: 132° (Wide) ~ 38° (Tele)	H: 94.8° / V: 49.3° / D: 114.3°	H: 88.6° / V: 47.5° / D: 104.8°	H: 107.4° / V: 62.2° / D: 122°	H: 135.4° / V: 71.2° / D: 161.6°
Pan / Tilt / Rotate	0° ~ 354°/0° ~ 67°/0° ~ 355°	±5° / 0° ~ 67° / ±90°	0° ~ 354°/0° ~ 67°/0° ~ 355°	±5° / ±10° / ±90°	±5° / 0° ~ 67° / ±90°
IR Viewable Length	30m (98.43ft)	15m (49.21ft)	30m (98.43ft)	-	-
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (Electrical)	Auto (Electrical)
Wide Dynamic Range	120dB	150dB	150dB	150dB	150dB
Digital Noise Reduction	SSNRV	SSNRV	SSNRV	SSNRV	SSNRV
Digital Image Stabilization	Support	Support (Built-in Gyro sensor)	Support	Support (Built-in Gyro sensor)	Support (Built-in Gyro sensor)
Analytics	Intelligent analytics	Intelligent analytics Audio detection Sound classification (w/ external MIC)	Intelligent analytics Audio detection Sound classification	Intelligent analytics Audio detection Sound classification	Intelligent analytics Audio detection Sound classification (w/ external MIC)
Business Intelligence	-	-	People counting, Queue management, Heatmap	-	-
Alarm I/O	-	-	1 / 1	-	-
Audio I/O	-	Selectable (mic in/line in), Built-in mic / Line out	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	Selectable (mic in/line in), Built-in mic / Line out
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	2MP / 60fps	2MP / 60fps	2MP / 60fps	2MP / 60fps	2MP / 60fps
WiseStream	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII
Streaming	Up to 5 Profiles	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles
Edge Storage	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC
Application Programming Interface	ONVIF profile S/G, SUNAPI, Wisenet open platform	ONVIF profile S/G, SUNAPI, Wisenet open platform	ONVIF profile S/G, SUNAPI, Wisenet open platform	ONVIF profile S/G, SUNAPI, Wisenet open platform	ONVIF profile S/G, SUNAPI, Wisenet open platform
Operating Temperature	-40°C ~ +55°C (-40°F ~ +131°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -20°C (-4°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -20°C (-4°F)	-40°C ~ +60°C (-40°F ~ +140°F) * Start up above -30°C (-22°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -20°C (-4°F)
Certification	IP66, IK10	IP66, IK10, NEMA4X	IP67, IP66, IK10	IP67, IP66K9K, IK10, NEMA4X	IP66, IK10, NEMA4X
Power Consumption	PoE: Max 11W	PoE: Max 6.7W	PoE: Max 9W 12V DC: Max 8W	PoE: Max 7.2W	PoE: Max 6.5W
Dimensions (WxHxD) /Weight	Ø160 x 118.5mm (Ø6.3" x 4.67") 940g (2.07lb)	W 98.9 x H 52 x D 100mm (3.89" x 2.05" x 3.94") 295g (0.65lb)	Ø120 x 97.5mm (Ø4.72" x 3.84") 615g (1.36lb)	W 103.7 x H 72.3 x D 126.8mm (4.08" x 2.85" x 4.99") 478g (1.04lb)	W 98.9 x H 52 x D 100mm (3.89" x 2.05" x 3.94") 295g (0.65lb)
Additional Features	Handover, Hallway View	M12 Connector (XNV-6022RM) Handover, Hallway View	Handover, Hallway View	M12 Connector Handover, Hallway View	M12 Connector (XNV-6012M) Handover, Hallway View



**XNV-6011**  
2MP Vandal Dome Camera



**XNV-6010**  
2MP Vandal Dome Camera

## PTZ PLUS



**XNP-C9303RW**  
8MP 30x AI IR Wiper PTZ Camera

## PTZ PLUS



**XNP-C9253R**  
8MP 25x AI IR PTZ Camera

## PTZ PLUS



**XNP-C9253**  
8MP 25x AI IR Wiper PTZ Camera

Imaging Device	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Min. Illumination	Color: 0.055Lux (F2.0) B/W: 0.055Lux (F2.0)	Color: 0.055Lux (F2.0) B/W: 0.0055Lux (F2.0)	Color: 0.1Lux (F1.6, 1/30sec) BW: 0Lux (IR LED On)	Color: 0.1Lux (F1.6, 1/30sec) BW: 0Lux (IR LED On)	Color: 0.1Lux (F1.6, 1/30sec) BW: 0.01Lux (F1.6, 1/30sec)
Video Output	CVBS 1.0Vp-p, Micro USB type B	CVBS 1.0Vpp, Micro USB type B	-	-	-
Focal Length	2.8mm fixed	2.4mm fixed	5~150mm (30x) zoom (digital 32x, total 960x zoom)	5~125mm (25x) zoom (digital 32x, total 800x zoom)	5~125mm (25x) zoom (digital 32x, total 800x zoom)
Angular Field of View	H: 112° / V: 62° / D: 130°	H: 139° / V: 73° / D: 167°	H: 57.42°(Wide)~2.19°(Tele) V: 33.54°(Wide)~1.25°(Tele)	H: 57.42°(Wide)~2.71°(Tele) V: 33.54°(Wide)~1.55°(Tele)	H: 57.42°(Wide)~2.71°(Tele) V: 33.54°(Wide)~1.55°(Tele)
Pan / Tilt / Rotate	0°~353°/0°~59°/0°~353°	0°~354°/0°~67°/0°~355°	360° Endless / 110° (-20°~90°) / -	360° Endless / 110° (-20°~90°) / -	360° Endless / 110° (-20°~90°) / -
IR Viewable Length	-	-	200m (656.17ft), Wise IR	200m (656.17ft), Wise IR	-
Day & Night	Auto (Electrical)	Auto (ICR)	Auto (ICR)/Color/BW/Schedule	Auto (ICR)/Color/BW/Schedule	Auto (ICR)/Color/BW/Schedule
Wide Dynamic Range	150dB	150dB	extremeWDR (120dB)	extremeWDR (120dB)	extremeWDR (120dB)
Digital Noise Reduction	SSNRV	SSNRV	WiseNR II, SSNRV	WiseNR II, SSNRV	WiseNR II, SSNRV
Digital Image Stabilization	Support	Support	Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)
Analytics	Intelligent analytics	Intelligent analytics Audio detection Sound classification	Classified object type: Person/Face/Vehicle/ License Plate, Attributes: Vehicle, Support DetectionShot, Intelligent analytics, Audio detection, Sound classification	Classified object type: Person/Face/Vehicle/ License Plate, Attributes: Vehicle, Support DetectionShot, Intelligent analytics, Audio detection, Sound classification	Classified object type: Person/Face/Vehicle/License Plate, Attributes: Vehicle, Support DetectionShot, Intelligent analytics, Audio detection, Sound classification
Business Intelligence	People counting, Queue management, Heatmap	People counting, Queue management, Heatmap	Object auto tracking (Person/Vehicle), Target lock tracking	Object auto tracking (Person/Vehicle), Target lock tracking	Object auto tracking (Person/Vehicle), Target lock tracking
Alarm I/O	-	1 / 1	Compatible with NW I/O Box	Compatible with NW I/O Box	Compatible with NW I/O Box
Audio I/O	-	Selectable (mic in/line in) / Line out	Compatible with NW I/O Box	Compatible with NW I/O Box	Compatible with NW I/O Box
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265/H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	2MP / 60fps	2MP / 60fps	8MP / 30fps	8MP / 30fps	8MP / 30fps
WiseStream	WiseStreamII	WiseStreamII	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII (Based on AI engine)
Streaming	Up to 10 Profiles	Up to 10 Profiles	Up to 10 profiles	Up to 10 profiles	Up to 10 profiles
Edge Storage	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC
Application Programming Interface	ONVIF profile S/G, SUNAPI, Wisenet open platform	ONVIF profile S/G, SUNAPI, Wisenet open platform	ONVIF profile S/G, SUNAPI, Wisenet open platform	ONVIF profile S/G, SUNAPI, Wisenet open platform	ONVIF profile S/G, SUNAPI, Wisenet open platform
Operating Temperature	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -20°C (-4°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -20°C (-4°F)	-40°C ~ +55°C (-40°F ~ +131°F) / +74°C (+165°F) (MAX) based on NEMA-TS 2 (2.2.7) *Start up should be done at above -30°C 0~95% RH (Non-condensing)	-40°C ~ +55°C (-40°F ~ +131°F) / +74°C (+165°F) (MAX) based on NEMA-TS 2 (2.2.7) *Start up should be done at above -30°C 0~95% RH (Non-condensing)	-40°C ~ +55°C (-40°F ~ +131°F) / +74°C (+165°F) (MAX) based on NEMA-TS 2 (2.2.7) *Start up should be done at above -30°C 0~95% RH (Non-condensing)
Certification	IP66, IK10, NEMA4X	IP67, IP66, IK10	IP66, IK10, NEMA4X, NEMA-TS 2 (2.2.8, 2.2.9)	IP66, IK10, NEMA4X, NEMA-TS 2 (2.2.8, 2.2.9)	IP66, IK10, NEMA4X, NEMA-TS 2 (2.2.8, 2.2.9)
Power Consumption	PoE: Max 6.5W	PoE: Max 6W 12V DC: Max 5.5W	HPoE (IEEE802.3bt, Class6, Type3, Injector included) Max 42W, typical 20W	HPoE (IEEE802.3bt, Class6, Type3, Injector included) Max 40W, typical 24W	PoE+ (IEEE802.3at, Class 4) Max 25.5W, typical 24W
Dimensions (WxHxD) / Weight	Ø112.8 x 63.7mm (Ø4.44" x 2.51") 420g (0.93lb)	Ø120 x 97.5mm (Ø4.72" x 3.84") 625g (1.38lb)	Ø184.9 x 318.8mm (Ø7.28" x 12.55") 5.6kg (12.34lb)	Ø158 x 293.3mm (Ø6.22" x 11.55") 3.2kg (7.05lb)	Ø158 x 293.3mm (Ø6.22" x 11.55") 3.2kg (7.05lb)
Additional Features	Handover, Hallway View	Handover, Hallway View	Secure by default		

## PTZ PLUS



**XNP-C8303RW**  
6MP 30x AI IR Wiper PTZ Camera

## PTZ PLUS



**XNP-C8253R**  
6MP 25x AI IR PTZ Camera

## PTZ PLUS



**XNP-C8253**  
6MP 25x AI PTZ Camera

## PTZ PLUS



**XNP-C6403RW**  
2MP 40x AI IR Wiper PTZ Camera

## PTZ PLUS



**XNP-C6403R**  
2MP 40x AI IR PTZ Camera

## PTZ PLUS



**XNP-C6403**  
2MP 40x AI PTZ Camera

Imaging Device	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Min. Illumination	Color: 0.1Lux (F1.6, 1/30sec) BW: 0Lux (IR LED On)	Color: 0.1Lux (F1.6, 1/30sec) BW: 0Lux (IR LED On)	Color: 0.1Lux (F1.6, 1/30sec) BW: 0.01Lux (F1.6, 1/30sec)	Color: 0.05Lux (F1.6, 1/30sec) BW: 0Lux (IR LED On)	Color: 0.05Lux (F1.6, 1/30sec) BW: 0Lux (IR LED On)	Color: 0.05Lux (F1.6, 1/30sec) BW: 0.005Lux (F1.6, 1/30sec)
Video Output	-	-	-	-	-	-
Focal Length	5 ~ 150mm (30x) zoom (digital 32x, total 960x zoom)	5 ~ 125mm (25x) zoom (digital 32x, total 800x zoom)	5 ~ 125mm (25x) zoom (digital 32x, total 800x zoom)	4.5 ~ 170mm (40x) zoom (digital 32x, total 1280x zoom)	4.5 ~ 170mm (40x) zoom (digital 32x, total 1280x zoom)	4.5 ~ 170mm (40x) zoom (digital 32x, total 1280x zoom)
Angular Field of View	H: 57.42°(Wide) ~ 2.19°(Tele) V: 33.54°(Wide) ~ 1.25°(Tele)	H: 57.42°(Wide) ~ 2.71°(Tele) V: 33.54°(Wide) ~ 1.55°(Tele)	H: 57.42°(Wide) ~ 2.71°(Tele) V: 33.54°(Wide) ~ 1.55°(Tele)	H: 65.66°(Wide) ~ 1.88°(Tele) V: 39.4°(Wide) ~ 1.09°(Tele)	H: 65.66°(Wide) ~ 1.88°(Tele) V: 39.4°(Wide) ~ 1.09°(Tele)	H: 65.66°(Wide) ~ 1.88°(Tele) V: 39.4°(Wide) ~ 1.09°(Tele)
Pan / Tilt / Rotate	360° Endless / 110° (-20°~90°) / -	360° Endless / 110° (-20°~90°) / -	360° Endless / 110° (-20°~90°) / -	360° Endless / 110° (-20°~90°) / -	360° Endless / 110° (-20°~90°) / -	360° Endless / 110° (-20°~90°) / -
IR Viewable Length	200m (656.17ft), Wise IR	200m (656.17ft), Wise IR	-	200m (656.17ft), Wise IR	200m (656.17ft), Wise IR	-
Day & Night	Auto (ICR)/Color/BW/Schedule	Auto (ICR)/Color/BW/Schedule	Auto (ICR)/Color/BW/Schedule	Auto (ICR)/Color/BW/Schedule	Auto (ICR)/Color/BW/Schedule	Auto (ICR)/Color/BW/Schedule
Wide Dynamic Range	extremeWDR (120dB)	extremeWDR (120dB)	extremeWDR (120dB)	extremeWDR (150dB)	extremeWDR (150dB)	extremeWDR (150dB)
Digital Noise Reduction	WiseNR II, SSNRV	WiseNR II, SSNRV	WiseNR II, SSNRV	WiseNR II, SSNRV	WiseNR II, SSNRV	WiseNR II, SSNRV
Digital Image Stabilization	Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)
Analytics	Classified object type: Person/Face/ Vehicle/License Plate, Attributes: Vehicle, Support DetectionShot, Intelligent analytics, Audio detection, Sound classification	Classified object type: Person/Face/ Vehicle/License Plate, Attributes: Vehicle, Support DetectionShot, Intelligent analytics, Audio detection, Sound classification	Classified object type: Person/Face/ Vehicle/License Plate, Attributes: Vehicle, Support DetectionShot, Intelligent analytics, Audio detection, Sound classification	Classified object type: Person/Face/ Vehicle/License Plate, Attributes: Vehicle, Support DetectionShot, Intelligent analytics, Audio detection, Sound classification	Classified object type: Person/Face/ Vehicle/License Plate, Attributes: Vehicle, Support DetectionShot, Intelligent analytics, Audio detection, Sound classification	Classified object type: Person/Face/ Vehicle/License Plate, Attributes: Vehicle, Support DetectionShot, Intelligent analytics, Audio detection, Sound classification
Business Intelligence	Object auto tracking (Person/Vehicle), Target lock tracking	Object auto tracking (Person/Vehicle), Target lock tracking	Object auto tracking (Person/Vehicle), Target lock tracking	Object auto tracking (Person/Vehicle), Target lock tracking	Object auto tracking (Person/Vehicle), Target lock tracking	Object auto tracking (Person/Vehicle), Target lock tracking
Alarm I/O	Compatible with NW I/O Box	Compatible with NW I/O Box	Compatible with NW I/O Box	Compatible with NW I/O Box	Compatible with NW I/O Box	Compatible with NW I/O Box
Audio I/O	Compatible with NW I/O Box	Compatible with NW I/O Box	Compatible with NW I/O Box	Compatible with NW I/O Box	Compatible with NW I/O Box	Compatible with NW I/O Box
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	6MP / 30fps	6MP / 30fps	6MP / 30fps	2MP / 60fps	2MP / 60fps	2MP / 60fps
WiseStream	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII (Based on AI engine)	WiseStreamII, WiseStreamIII (Based on AI engine)
Streaming	Up to 10 profiles	Up to 10 profiles	Up to 10 profiles	Up to 10 profiles	Up to 10 profiles	Up to 10 profiles
Edge Storage	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC
Application Programming Interface	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform
Operating Temperature	-40°C ~ +55°C (-40°F ~ +131°F) / +74°C (+165°F) (MAX) based on NEMA-TS 2 (2.2.7) *Start up should be done at above -30°C 0~95% RH (Non-condensing)	-40°C ~ +55°C (-40°F ~ +131°F) / +74°C (+165°F) (MAX) based on NEMA-TS 2 (2.2.7) *Start up should be done at above -30°C 0~95% RH (Non-condensing)	-40°C ~ +55°C / +74°C based on NEMA-TS 2 (2.2.7) *Start up should be done at above -30°C 0~95% RH (Non-condensing)	-40°C ~ +55°C (-40°F ~ +131°F) / +74°C (+165°F) (MAX) based on NEMA-TS 2 (2.2.7) *Start up should be done at above -30°C 0~95% RH (Non-condensing)	-40°C ~ +55°C (-40°F ~ +131°F) / +74°C (+165°F) (MAX) based on NEMA-TS 2 (2.2.7) *Start up should be done at above -30°C 0~95% RH (Non-condensing)	-40°C ~ +55°C (-40°F ~ +131°F) / +74°C (+165°F) (MAX) based on NEMA-TS 2 (2.2.7) *Start up should be done at above -30°C 0~95% RH (Non-condensing)
Certification	IP66, IK10, NEMA4X, NEMA TS-2 (2.2.8, 2.2.9)	IP66, IK10, NEMA4X, NEMA TS-2 (2.2.8, 2.2.9)	IP66, IK10, NEMA4X, NEMA TS-2 (2.2.8, 2.2.9)	IP66, IK10, NEMA4X, NEMA TS-2 (2.2.8, 2.2.9)	IP66, IK10, NEMA4X, NEMA TS-2 (2.2.8, 2.2.9)	IP66, IK10, NEMA4X, NEMA TS-2 (2.2.8, 2.2.9)
Power Consumption	HPoE (IEEE802.3bt, Class6, Type3, Injector included) Typical 26W, Max 46W	HPoE (IEEE802.3bt, Class6, Type3, Injector included) Typical 24W, Max 40W	PoE+ (IEEE802.3at, Class 4) Max 25.5W, typical 24W	HPoE (IEEE802.3bt, Class6, Type3, Injector included) Typical 26W, Max 46W	HPoE (IEEE802.3bt, Class6, Type3, Injector included) Typical 24W, Max 40W	PoE+ (IEEE802.3at, Class4): Typical 20W, Max 25W
Dimensions (WxHxD) /Weight	Ø184.9 x 318.8mm (Ø7.28" x 12.55") 5.6kg (12.34lb)	Ø158 x 293.3mm (Ø6.22" x 11.55") 3.2kg (7.05lb)	Ø158 x 293.3mm (Ø6.22" x 11.55") 3.2kg (7.05lb)	Ø184.9 x 318.8mm (Ø7.28" x 12.55") 5.6kg (12.34lb)	Ø158 x 293.3mm (Ø6.22" x 11.55") 3.2kg (7.05lb)	Ø158 x 293.3mm (Ø6.22" x 11.55") 3.2kg (7.05lb)
Additional Features	Secure by default					

PTZ PLUS



**XNP-9300RW**  
4K 30x Wiper + IR PTZ Camera

PTZ PLUS



**XNP-8300RW**  
6MP 30x Wiper + IR PTZ Camera

PTZ PLUS



**XNP-6400RW**  
2MP 40x Wiper + IR PTZ Camera

PTZ PLUS



**XNP-9250R**  
4K 25x IR PTZ Camera

PTZ PLUS



**XNP-8250R**  
6MP 25x IR PTZ Camera

Imaging Device	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Min. Illumination	Color: 0.1Lux (F1.6, 1/30sec) BW: 0Lux (IR LED On)	Color: 0.1Lux (F1.6, 1/30sec) BW: 0Lux (IR LED On)	Color: 0.05Lux (F1.6, 1/30sec) BW: 0Lux (IR LED On)	Color: 0.1Lux (F1.6, 1/30sec) BW: 0Lux (IR LED On)	Color: 0.1Lux (F1.6, 1/30sec) BW: 0Lux (IR LED On)
Video Output	-	-	-	-	-
Focal Length	5 ~150mm (30x) zoom	5 ~150mm (30x) zoom	4.25 ~ 170mm (40x) zoom	5 ~125mm (25x) zoom	5 ~125mm (25x) zoom
Angular Field of View	H: 57.42°(Wide) ~ 2.19°(Tele) V: 33.54°(Wide) ~ 1.25°(Tele)	H: 57.42°(Wide) ~ 2.19°(Tele) V: 33.54°(Wide) ~ 1.25°(Tele)	H: 65.66°(Wide) ~ 1.88°(Tele) V: 39.4°(Wide) ~ 1.09°(Tele)	H: 57.42°(Wide) ~ 2.71°(Tele) V: 33.54°(Wide) ~ 1.55°(Tele)	H: 57.42°(Wide) ~ 2.71°(Tele) V: 33.54°(Wide) ~ 1.55°(Tele)
Pan / Tilt / Rotate	360° Endless / 110°(-20°~ 90°) / -	360° Endless / 110°(-20°~ 90°) / -	360° Endless / 110°(-20°~ 90°) / -	360° Endless / 110°(-20°~ 90°) / -	360° Endless / 110°(-20°~ 90°) / -
IR Viewable Length	200m (656.17ft), Wise IR	200m (656.17ft), Wise IR	200m (656.17ft), Wise IR	200m (656.17ft), Wise IR	200m (656.17ft), Wise IR
Day & Night	Auto (ICR)/Color/BW/Schedule	Auto (ICR)/Color/BW/Schedule	Auto (ICR)/Color/BW/Schedule	Auto (ICR)/Color/BW/Schedule	Auto (ICR)/Color/BW/Schedule
Wide Dynamic Range	extremeWDR (120dB)	extremeWDR (120dB)	extremeWDR (150dB)	extremeWDR (120dB)	extremeWDR (120dB)
Digital Noise Reduction	SSNRV	SSNRV	SSNRV	SSNRV	SSNRV
Digital Image Stabilization	Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)
Analytics	Intelligent analytics *Audio detection, Sound classification (with NW I/O Box : SPM-4210)	Intelligent analytics *Audio detection, Sound classification (with NW I/O Box : SPM-4210)	Intelligent analytics *Audio detection, Sound classification (with NW I/O Box : SPM-4210)	Intelligent analytics *Audio detection, Sound classification (with NW I/O Box : SPM-4210)	Intelligent analytics *Audio detection, Sound classification (with NW I/O Box : SPM-4210)
Business Intelligence	-	-	-	-	-
Alarm I/O	Compatible with NW I/O Box (Optional)	Compatible with NW I/O Box (Optional)	Compatible with NW I/O Box (Optional)	Compatible with NW I/O Box (Optional)	Compatible with NW I/O Box (Optional)
Audio I/O	Compatible with NW I/O Box (Optional)	Compatible with NW I/O Box (Optional)	Compatible with NW I/O Box (Optional)	Compatible with NW I/O Box (Optional)	Compatible with NW I/O Box (Optional)
Video Compression	H.265/H.264,MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	4K / 30fps	6MP / 30fps	2MP / 60fps	4K / 30fps	6MP / 30fps
WiseStream	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII
Streaming	Up to 10 profiles	Up to 10 profiles	Up to 10 profiles	Up to 10 profiles	Up to 10 profiles
Edge Storage	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC
Application Programming Interface	ONVIF profile S/G, SUNAPI, Wisenet open platform	ONVIF profile S/G, SUNAPI, Wisenet open platform	ONVIF profile S/G, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform
Operating Temperature	Normal : -40°C ~ +55°C(-40°F ~ +131°F) / Maximum Temperature based on NEMA-TS 2(2.2.7) : +74°C(+165°F) * Start up should be done at above -30°C Less than 95% RH (Non-condensing)	Normal : -40°C ~ +55°C (-40°F ~ +131°F) / Maximum Temperature based on NEMA-TS 2(2.2.7) : +74°C(+165°F) * Start up should be done at above -30°C Less than 95% RH (Non-condensing)	Normal : -40°C ~ +55°C (-40°F ~ +131°F) / Maximum Temperature based on NEMA-TS 2(2.2.7) : +74°C(+165°F) * Start up should be done at above -30°C Less than 95% RH (Non-condensing)	-40°C ~ +55°C (-40°F ~ +131°F) / +74°C(+165°F) (MAX) based on NEMA-TS 2(2.2.7) * Start up should be done at above -30°C Less than 95% RH (Non-condensing)	-40°C ~ +55°C (-40°F ~ +131°F) / +74°C(+165°F) (MAX) based on NEMA-TS 2(2.2.7) * Start up should be done at above -30°C Less than 95% RH (Non-condensing)
Certification	IP66, IK10, NEMA4X, NEMA-TS 2 (2.2.8, 2.2.9)	IP66, IK10, NEMA4X, NEMA-TS 2 (2.2.8, 2.2.9)	IP66, IK10, NEMA4X, NEMA-TS 2 (2.2.8, 2.2.9)	IP66, IK10, NEMA4X, NEMA TS-2 (2.2.8, 2.2.9)	IP66, IK10, NEMA4X, NEMA TS-2 (2.2.8, 2.2.9)
Power Consumption	HPoE (Camera only): Max 42W, typical 20W	HPoE (Camera only): Max 42W, typical 20W	HPoE (Camera only): Max 42W, typical 20W	HPoE (Camera only): Typical 20W, Max 40W	HPoE (Camera only): Typical 20W, Max 40W
Dimensions (WxHxD) / Weight	Ø184.9 x 318.8mm (Ø7.28" x 12.55") 5.4kg(11.9lb)	Ø184.9 x 318.8mm (Ø7.28" x 12.55") 5.4kg(11.9lb)	Ø184.9 x 318.8mm (Ø7.28" x 12.55") 5.4kg(11.9lb)	Ø158 x 293.3mm (Ø6.22" x 11.55") 3.2kg (7.05lb)	Ø158 x 293.3mm (Ø6.22" x 11.55") 3.2kg (7.05lb)
Additional Features	1 Terminal & Cable, Upgraded preset accuracy, built-in wiper, object auto tracking, Target lock tracking Included SFP slot in HPoE injector				

1 Terminal & Cable, Upgraded preset accuracy,  
built-in wiper, object auto tracking, Target lock tracking  
Included SFP slot in HPoE injector



## PTZ PLUS



XNP-6400R  
2MP 40x IR PTZ Camera

## PTZ PLUS



XNP-9250  
4K 25x PTZ Camera

## PTZ PLUS



XNP-8250  
6MP 25x PTZ Camera

## PTZ PLUS



XNP-6400  
2MP 40x PTZ Camera

Imaging Device	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Min. Illumination	Color: 0.05Lux (F1.6, 1/30sec) BW: 0Lux (IR LED On)	Color: 0.1Lux (F1.6, 1/30sec) BW: 0.01Lux (IR LED On)	Color: 0.1Lux (F1.6, 1/30sec) BW: 0.01Lux (IR LED On)	Color: 0.05Lux (F1.6, 1/30sec) BW: 0.005Lux (IR LED On)
Video Output	-	-	-	-
Focal Length	4.25 ~ 170mm (40x) zoom	5 ~ 125mm (25x) zoom	5 ~ 125mm (25x) zoom	4.25 ~ 170mm (40x) zoom
Angular Field of View	H: 65.66°(Wide) ~ 1.88°(Tele) V: 39.4°(Wide) ~ 1.09°(Tele)	H: 57.42°(Wide) ~ 2.71°(Tele) V: 33.54°(Wide) ~ 1.55°(Tele)	H: 57.42°(Wide) ~ 2.71°(Tele) V: 33.54°(Wide) ~ 1.55°(Tele)	H: 65.66°(Wide) ~ 1.88°(Tele) V: 39.4°(Wide) ~ 1.09°(Tele)
Pan / Tilt / Rotate	360° Endless / 110° (-20°~ 90°) / -	360° Endless / 110° (-20°~ 90°) / -	360° Endless / 110° (-20°~ 90°) / -	360° Endless / 110° (-20°~ 90°) / -
IR Viewable Length	200m (656.17ft), Wise IR	-	-	-
Day & Night	Auto (ICR)/Color/BW/Schedule	Auto (ICR)/Color/BW/Schedule	Auto (ICR)/Color/BW/Schedule	Auto (ICR)/Color/BW/Schedule
Wide Dynamic Range	extremeWDR (150dB)	extremeWDR (120dB)	extremeWDR (120dB)	extremeWDR (150dB)
Digital Noise Reduction	SSNRV	SSNRV	SSNRV	SSNRV
Digital Image Stabilization	Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)
Analytics	Intelligent analytics * Audio detection, Sound classification (with NW I/O Box : SPM-4210)	Intelligent analytics * Audio detection, Sound classification (with NW I/O Box : SPM-4210)	Intelligent analytics * Audio detection, Sound classification (with NW I/O Box : SPM-4210)	Intelligent analytics * Audio detection, Sound classification (with NW I/O Box : SPM-4210)
Business Intelligence	-	-	-	-
Alarm I/O	Compatible with NW I/O Box (Optional)	Compatible with NW I/O Box (Optional)	Compatible with NW I/O Box (Optional)	Compatible with NW I/O Box (Optional)
Audio I/O	Compatible with NW I/O Box (Optional)	Compatible with NW I/O Box (Optional)	Compatible with NW I/O Box (Optional)	Compatible with NW I/O Box (Optional)
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	2MP / 60fps	4K / 30fps	6MP / 30fps	2MP / 60fps
WiseStream	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII
Streaming	Up to 10 profiles	Up to 10 profiles	Up to 10 profiles	Up to 10 profiles
Edge Storage	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC
Application Programming Interface	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform
Operating Temperature	-40°C ~ +50°C (-40°F ~ +122°F) / +74°C (+165°F) (MAX) based on NEMA-TS 2 (2.2.7) * Start up should be done at above -30°C Less than 95% RH (Non-condensing)	-40°C ~ +55°C (-40°F ~ +131°F) / +74°C (+165°F) (MAX) based on NEMA-TS 2 (2.2.7) * Start up should be done at above -30°C Less than 95% RH (Non-condensing)	-40°C ~ +55°C (-40°F ~ +131°F) / +74°C (+165°F) (MAX) based on NEMA-TS 2 (2.2.7) * Start up should be done at above -30°C Less than 95% RH (Non-condensing)	-40°C ~ +50°C (-40°C ~ +122°C) / +74°F (+165°F) (MAX) based on NEMA-TS 2 (2.2.7) * Start up should be done at above -30°C Less than 95% RH (Non-condensing)
Certification	IP66, IK10, NEMA4X, NEMA TS-2 (2.2.8, 2.2.9)	IP66, IK10, NEMA4X, NEMA TS-2 (2.2.8, 2.2.9)	IP66, IK10, NEMA4X, NEMA TS-2 (2.2.8, 2.2.9)	IP66, IK10, NEMA4X, NEMA TS-2 (2.2.8, 2.2.9)
Power Consumption	HPoE (Camera only): Typical 20W, Max 40W	PoE+ (IEEE802.3at, Class4): Typical 20W, Max 25W	PoE+ (IEEE802.3at, Class4): Typical 20W, Max 25W	PoE+ (IEEE802.3at, Class4): Typical 20W, Max 25W
Dimensions (WxHxD) /Weight	Ø158 x 293.3mm (Ø6.22" x 11.55") 3.2kg (7.05lb)	Ø158 x 293.3mm (Ø6.22" x 11.55") 3.2kg (7.05lb)	Ø158 x 293.3mm (Ø6.22" x 11.55") 3.2kg (7.05lb)	Ø158 x 293.3mm (Ø6.22" x 11.55") 3.2kg (7.05lb)
Additional Features	1 Terminal & Cable, Upgraded preset accuracy, object auto tracking, Target lock tracking Included SFP slot in HPoE injector		1 Terminal & Cable, Upgraded preset accuracy, object auto tracking, Target lock tracking	



**XNP-6550RH**  
2MP 55x IR PTZ Camera



**XNP-6120H**  
2MP 12x PTZ Camera



**XNP-6040H**  
2MP 4.3x PTZ Camera

Imaging Device	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Min. Illumination	Color : 0.02Lux (F1.6) B/W : 0Lux (IR LED on)	Color : 0.03Lux (F1.6) B/W : 0.003Lux (F1.6)	Color : 0.015Lux (F1.4) B/W : 0.0015Lux (F1.4)
Video Output	CVBS 1.0Vp-p	CVBS 1.0Vp-p, Micro USB type B	CVBS 1.0Vp-p, Micro USB type B
Focal Length	4.75 ~ 261.4mm (55x) zoom	5.2 ~ 62.4mm (12x) zoom	2.8 ~ 12mm (4.3x) zoom
Angular Field of View	H : 58.6°(Wide) ~ 1.23°(Tele) V : 34.8°(Wide) ~ 0.71°(Tele)	H : 54.58°(Wide) ~ 5.3°(Tele) V : 32.19°(Wide) ~ 3°(Tele)	H : 119.5°(Wide) ~ 27.9°(Tele) V : 62.8°(Wide) ~ 15.7°(Tele) D : 142.1°(Wide) ~ 32°(Tele)
Pan / Tilt / Rotate	360° Endless / 95° (-5° ~ 90°) / -	360° Endless / 190° (-5° ~ 185°) / -	0° ~ 355° / 0° ~ 90°
IR Viewable Length	500m (1,640.42ft)	-	-
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	120dB	150dB	150dB
Digital Noise Reduction	SSNRV	SSNRV	SSNRV
Digital Image Stabilization	Support (Built-in Gyro sensor)	Support (Built-in Gyro sensor)	Support (Built-in Gyro sensor)
Analytics	Intelligent analytics Audio detection Sound classification Shock detection	Intelligent analytics Audio detection, Sound classification	Intelligent analytics Audio detection, Sound classification
Business Intelligence	-	-	-
Alarm I/O	4 / 2	1 / 1	1 / 1
Audio I/O	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	2MP / 60fps	2MP / 60fps	2MP / 60fps
WiseStream	WiseStreamII	WiseStreamII	WiseStreamII
Streaming	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles
Edge Storage	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC
Application Programming Interface	ONVIF profile S/G, SUNAPI, Wisenet open platform	ONVIF profile S/G, SUNAPI, Wisenet open platform	ONVIF profile S/G, SUNAPI, Wisenet open platform
Operating Temperature	-50°C ~ +55°C (-122°F ~ +131°F) * Start up above -30°C (HPoE Mode)	-30°C ~ +55°C (-22°F ~ +131°F)	-30°C ~ +55°C (-22°F ~ +131°F)
Certification	IP66, IK10	IP66, IK10	IP66, IK10
Power Consumption	HPoE : 60W 24VAC : Max 92W	PoE, 12VDC : Max 12W	PoE : Max 9.6W 12VDC : Max 8.6W
Dimensions (WxHxD) / Weight	Ø236.9 x 407.7mm (Ø9.33" x 16.05") 7.1kg (15.65lb)	Ø168 x 161.5mm (Ø6.61" x 6.36") 1.9kg (4.19lb)	Ø136.1 x 106.1mm (Ø5.36" x 4.18") 0.78kg (1.72lb)
Additional Features	Defog, Auto tracking	Defog, Auto tracking	Defog, Auto tracking



XNZ-6320A  
2MP 32x Zoom Camera



XNZ-L6320A  
2MP 32x Zoom Camera



PNM-9031RV  
15MP 192° IR Panoramic Camera



PNM-9022V  
8.3MP 180°/209° Panoramic Camera

Imaging Device	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 5MP CMOS (x4)	1/2.8" 4CH
Min. Illumination	Color: 0.05Lux (1/30sec, F1.6) B/W: 0.005Lux (1/30sec, F1.6)	Color: 0.05Lux (1/30sec, F1.6) B/W: 0.005Lux (1/30sec, F1.6)	Color: 0.1Lux (F1.6, 1/30sec) BW: 0Lux (IR LED on)	Color: 0.3Lux (F1.6) Color: 0.03Lux (F1.6)
Video Output	CVBS 1.0Vp-p, Micro USB Type B	CVBS 1.0Vp-p	Micro USB Type B	Micro USB Type B
Focal Length	4.44 ~ 142.6mm (Optical 32X) (digital 32x, total 1024x zoom)	4.44 ~ 142.6mm (Optical 32X) (digital 32x, total 1024x zoom)	4.3mm Fixed	2.8mm fixed focal
Angular Field of View	H: 64.66°(Wide) ~ 2.29°(Tele) V: 38.08°(Wide) ~ 1.3°(Tele)	H: 64.66°(Wide) ~ 2.29°(Tele) V: 38.08°(Wide) ~ 1.3°(Tele)	H: 196° / V: 64°(Min distance 5m) H: 197° / V: 64°(Max distance 100m)	H: 209° / V: 83.3°
Pan / Tilt / Rotate	-	-	0° ~ 355° / 0° ~ 60° / -	0° ~ 355° / 0° ~ 60° / -
IR Viewable Length	-	-	20m (65.62ft)	-
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	120dB	120dB	120dB	extremeWDR (120dB)
Digital Noise Reduction	SSNRV	SSNRV	SSNRV	SSNRV
Digital Image Stabilization	Support	Support	-	-
Analytics	Intelligent analytics Audio detection Sound classification Shock detection	Intelligent analytics Audio detection Sound classification Shock detection	Defocus detection, Motion detection, Appear/Disappear, Enter/Exit, Tampering, Virtual line, Audio detection	Defocus detection, Motion detection, Appear/Disappear, Enter/Exit, Tampering, Virtual line, Audio detection
Business Intelligence	-	-	Heatmap	Heatmap
Alarm I/O	1 / 2	1 / 1	2 / 1	1 / 1
Audio I/O	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	Selectable (mic in/line in)	Selectable (mic in/line in) / Line out
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	2MP / 60fps	2MP / 60fps	15MP / 20fps	8.3MP / 30fps
WiseStream	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII
Streaming	Up to 10 profiles	Up to 10 profiles	Up to 3 profiles	Up to 10 profiles
Edge Storage	micro SD/SDHC/SDXC 2 slot 512GB	micro SD/SDHC/SDXC 1 slot 256GB	micro SD/SDHC/SDXC 2 slots 512GB (256GBx2)	micro SD/SDHC/SDXC
Application Programming Interface	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API)	ONVIF Profile S/G/T, SUNAPI, Wisenet open platform
Operating Temperature	-10°C ~ +55°C (-14°F ~ +131°F) / Less than 90% RH	-10°C ~ +55°C (-14°F ~ +131°F) / Less than 90% RH	-40°C ~ +55°C (-40°F ~ +131°F) * Startup should be above -30°C Less than 95% RH (Non-condensing)	-40°C ~ +60°C (-40°F ~ +131°F) / Less than 95% RH (Non-condensing) * Maximum temperature : +60°C (intermittent)
Certification	-	-	IP66, IK10, NEMA4X	IP66, IK10, NEMA4X
Power Consumption	PoE: Max 7.5W, Typical 4.5W 12VDC: Max 7W, Typical 4W	PoE: Max 7.5W, Typ 5W 12VDC: Max 5.7W, Typ 3.7W	PoE+: Max 23.5W, Typical 18W 12VDC: Max 20.5W, Typical 16W	PoE+: Max 18W, Typical 10.4W 12VDC: Max 16W, Typical 9W
Dimensions (WxHxD) / Weight	W 96 x H 76 x D 143.5mm (3.78" x 2.99" x 5.65") 578g (1.27 lb)	W 72 x H 63.9 x D 135.4mm (2.83" x 2.52" x 5.33") 480g (1.06 lb)	Ø253 x 170mm 2.6kg (4.7 lb)	Ø253 x 165mm (Ø9.96" x 6.5") 3.2kg (7.1 lb)
Additional Features	Defog	Defog	-	4CH Stitching



**PNM-9085RQZ1**  
5MP x 4CH IR PTRZ Multi-directional Camera



**PNM-9084RQZ1**  
2MP x 4CH IR PTRZ Multi-directional Camera



**PNM-9084QZ1**  
2MP x 4CH PTRZ Multi-directional Camera

Imaging Device	1/1.8" 5MP CMOS x 4CH	1/2.8" CMOS x 4CH	1/2.8" CMOS x 4CH
Min. Illumination	Color: 0.11lux (F1.92, 30IRE) BW: 0Lux (IR LED on)	Color: 0.05lux (F1.6, 30IRE) BW: 0Lux (IR LED on)	Color: 0.04lux (F2.2, 1/30sec) BW: 0.004lux (F2.2, 1/30sec)
Video Output	-	-	-
Focal Length	4.13 ~ 9.4mm (2.3x) motorized varifocal	3.2 ~ 10mm (3.1x) motorized varifocal	3 ~ 6mm (2x) motorized varifocal
Angular Field of View	H: 87.58°(Wide) ~ 37.34°(Tele) V: 64.58°(Wide) ~ 28.04°(Tele) D: 112.46°(Wide) ~ 46.85°(Tele)	H: 109°(Wide) ~ 33.2°(Tele) V: 57.4°(Wide) ~ 18.7°(Tele) D: 132°(Wide) ~ 38°(Tele)	H: 107°(Wide) ~ 56.3°(Tele) V: 57°(Wide) ~ 31.5°(Tele) D: 126°(Wide) ~ 64.3°(Tele)
Pan / Tilt / Rotate	Remote adjustment (Max. 200cycles) 0 ~ 360°/ 35 ~ 80°/ 0 ~ 90°	Remote adjustment (Max. 200cycles) 0 ~ 360°/ 35 ~ 80°/ 0 ~ 90°	Remote adjustment (Max. 200cycles) 0 ~ 360°/ 35 ~ 80°/ 0 ~ 90°
IR Viewable Length	30m (98.43ft)	30m (98.43ft)	-
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	120dB	120dB	120dB
Digital Noise Reduction	SSNRV	SSNRV	SSNRV
Digital Image Stabilization	Support	Support	Support
Analytics	Defocus detection, Directional detection, Fog detection, Face detection, Motion detection, Appear/Disappear, Enter/Exit, Loitering, Tampering, Virtual line, Audio detection	Defocus detection, Directional detection, Fog detection, Face detection, Motion detection, Appear/Disappear, Enter/Exit, Loitering, Tampering, Virtual line, Audio detection	Defocus detection, Directional detection, Fog detection, Face detection, Motion detection, Appear/Disappear, Enter/Exit, Loitering, Tampering, Virtual line, Audio detection
Business Intelligence	-	-	-
Alarm I/O	1 / 1	1 / 1	1 / 1
Audio I/O	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	8MP / 60Hz	8MP / 60fps	8MP / 60fps
WiseStream	WiseStreamII	WiseStreamII	WiseStreamII
Streaming	Up to 10 profiles	Up to 10 profiles	Up to 10 profiles
Edge Storage	micro SD/SDHC/SDXC 4slot 256GB (each CH)	micro SD/SDHC/SDXC 4slot 256GB (each CH)	micro SD/SDHC/SDXC 4slot 256GB (each CH)
Application Programming Interface	ONVIF Profile S/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/T SUNAPI (HTTP API) Wisenet open platform
Operating Temperature	-40°C ~ +55°C (-40°F ~ +131°F) / Less than 90% RH	-40°C ~ +55°C (-40°F ~ +131°F) / Less than 90% RH	-40°C ~ +55°C (-40°F ~ +131°F) / Less than 90% RH *Start up should be above at -35°C
Certification	IP66, IK10, NEMA4X	IP66, IK10, NEMA4X	IP66, IK10, NEMA4X
Power Consumption	PoE: Max. 45W, Typical 33.7W 12VDC: Max. 42W, Typical 32W	PoE: Max. 42W, Typical 30W 12VDC: Max. 38W, Typical 28.2W	Max. 33W, Typical 20W
Dimensions (WxHxD) / Weight	Ø315 x 145.9 mm (Ø12.4" x 5.74") 5.2 kg (11.5lb)	Ø315 x 145.9 mm (Ø12.4" x 5.74") 5.2 kg (11.5lb)	Ø251 x 116.5mm 3kg (6.6lb)
Additional Features	Motorized PTRZ	Motorized PTRZ	Motorized PTRZ



**PNM-8082VT**  
2MP x 3CH Multi-directional Camera



**PNM-12082RVD**  
6MP x 2CH Multi-directional Camera



**PNM-7082RVD**  
2MP x 2CH Multi-directional Camera

Imaging Device	1/2.8" CMOS 3CH	1/2.8" CMOS x 2CH	1/2.8" CMOS x 2CH
Min. Illumination	Color: 0.04lux(F2.2) BW: 0.004lux(F2.2)	Color: 0.16lux (F1.67, 1/30sec, 30IRE) BW: 0Lux (IR LED on)	Color: 0.035lux (F2.2, 1/30sec, 30IRE) BW: 0lux (IR LED on)
Video Output	CVBS: 1.0 Vp-p	micro USB Type B	micro USB Type B
Focal Length	3 ~ 6mm (2x) motorized varifocal	3.54 ~ 6.69mm (1.9x) motorized varifocal	3 ~ 6mm (2x) motorized varifocal
Angular Field of View	H: 107°(Wide) ~ 56.3°(Tele) V: 57°(Wide) ~ 31.5°(Tele) D: 126°(Wide) ~ 64.3°(Tele)	H: 96°(Wide) ~ 47°(Tele) V: 51°(Wide) ~ 26°(Tele) D: 113°(Wide) ~ 54°(Tele)	H: 107°(Wide) ~ 56°(Tele) V: 57°(Wide) ~ 31°(Tele) D: 126°(Wide) ~ 64°(Tele)
Pan / Tilt / Rotate	0 ~ 360°/ 0 ~ 73°/ 0 ~ 90°	0 ~ 355°/ 0 ~ 78°/ 0 ~ 180°	0 ~ 355°/ 0 ~ 78°/ 0 ~ 180°
IR Viewable Length	-	25m (82ft)	25m (82ft)
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	extremeWDR (150dB)	extremeWDR (120dB)	extremeWDR (150dB)
Digital Noise Reduction	SSNRV	WiseNR, SSNRV	WiseNR, SSNRV
Digital Image Stabilization	Support	-	-
Analytics	Defocus detection, Directional detection, Motion detection, Enter/Exit, Tampering, Virtual line	Analytics events*: Defocus detection, Motion detection, Tampering, Virtual line (Crossing/Direction), Virtual area (Loitering/Enter/Exit) * Support Audio detection, Sound classification via optional SPM-4210 I/O box	Analytics events*: Defocus detection, Motion detection, Tampering, Virtual line (Crossing/Direction), Virtual area (Loitering/Enter/Exit) * Support Audio detection, Sound classification via optional SPM-4210 I/O box
Business Intelligence	-	-	-
Alarm I/O	-	* Support Alarm via optional SPM-4210 I/O box	* Support Alarm via optional SPM-4210 I/O box
Audio I/O	-	* Audio in/out via optional SPM-4210 I/O box	* Audio in/out via optional SPM-4210 I/O box
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	2MP / 30fps	6MP / 15fps	2MP / 30fps
WiseStream	WiseStreamII	WiseStreamII	WiseStreamII
Streaming	Up to 10 profiles	Up to 10 profiles	Up to 10 profiles
Edge Storage	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC 1slot Max. 512GB	micro SD/SDHC/SDXC 1slot Max. 512GB
Application Programming Interface	ONVIF Profile S/G/T SUNAPI (HTTP API)	ONVIF Profile S/T SUNAPI (HTTP API) Open platform	ONVIF Profile S/T SUNAPI (HTTP API) Open platform
Operating Temperature	-40°C ~ +55°C (-40°F ~ +131°F) / Less than 95% RH (Non-condensing) * Start up should be above at -35°C	-40°C ~ +55°C (-40°F ~ +131°F) / Less than 95% RH (Non-condensing) * Start up should be above at -35°C	-40°C ~ +55°C (-40°F ~ +131°F) / Less than 95% RH (Non-condensing) * Start up should be above at -35°C
Certification	IP66, IK10, NEMA4X	IP66/IP67, NEMA4X, IK10	IP66/IP67, NEMA4X, IK10
Power Consumption	PoE+: Max: 16.5W, Typical: 8.2W	PoE+: Max 18.3W, typical 13.5W	PoE+: Max 17W, typical 12.5W
Dimensions (WxHxD) / Weight	Ø251 x 116.5mm (Ø9.88" x 4.59") 3kg (6.6lb)	W 215 x D 135 x H 93.2mm (8.46" x 5.31" x 3.67") 1.33kg (2.9lb)	W 215 x D 135 x H 93.2mm (8.46" x 5.31" x 3.67") 1.33kg (2.9lb)
Additional Features	3CH Multi-directional	-	-



**PNM-9000QB**  
2MP x 4CH Remote Head Camera



**XNB-6002**  
2MP x 4CH Remote Head Camera



**SLA-T4680A/T4680VA**  
2MP lens for PNM-9000QB / XNB-6002



**SLA-T2480A/T2480VA**  
2MP lens for PNM-9000QB / XNB-6002



**SLA-T1080FA**  
2MP lens for PNM-9000QB / XNB-6002

Imaging Device	-	-	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS
Min. Illumination	-	-	Color: 0.06Lux (F2.5)	Color: 0.045Lux (F2.0)	Color: 0.03Lux (F1.6)
Video Output	HDMI (1920x1080, Quad view support)	CVBS 1.0Vp-p, Micro USB type B	-	-	-
Focal Length	-	-	4.6mm fixed focal	2.4mm fixed focal	1.6mm fixed focal
Angular Field of View	-	-	H: 73°/ V: 39°/ D: 85°	H: 138°/ V: 73°/ D: 165°	H: 187°/ V: 113.9°
Pan / Tilt / Rotate	-	-	-	-	-
IR Viewable Length	-	-	-	-	-
Day & Night	Auto (electrical)	Auto (electrical)	-	-	-
Wide Dynamic Range	extremeWDR (150dB)	extremeWDR (120dB)	-	-	-
Digital Noise Reduction	SSNRV	SSNRV, WiseNR	-	-	-
Digital Image Stabilization	Support	Support (Built-in Gyro sensor)	-	-	-
Analytics	Defocus detection, Directional detection, Motion detection, Enter/Exit, Tampering, Virtual line	Analytic events - Defocus detection, Motion detection, Tampering, Fog detection, Audio detection, Sound classification, Face detection, Virtual area (Loitering/Intrusion/Enter/Exit/Appear/Disappear), Virtual line (Crossing/Direction)	-	-	-
Business Intelligence	-	People counting, Queue management, Heatmap	-	-	-
Alarm I/O	1 / 1	1 / 1	-	-	-
Audio I/O	Selectable (mic in/line in) / Line out	Selectable (mic in/line in), Built-in mic / Line out	-	-	-
Video Compression	H.265 / H.264, MJPEG	H.265, H.264, MJPEG	-	-	-
Resolution / Max. Frame Rate	2MP / 30fps	2MP / 60fps	-	-	-
WiseStream	WiseStreamII	WiseStreamII	-	-	-
Streaming	Up to 10 profiles	Up to 10 Profiles	-	-	-
Edge Storage	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC 1slot Max. 1TB	-	-	-
Application Programming Interface	ONVIF Profile S/G/T, SUNAPI (HTTP API) Wisenet open platform	ONVIF profile S/G, SUNAPI, Wisenet open platform	-	-	-
Operating Temperature	-10°C ~ +45°C (-40°F ~ +113°F) / Less than 95% RH (Non condensing)	-10°C ~ +55°C (+14°F ~ +131°F) / 0 ~ 90% RH (non-condensing)	-	-	-
Certification	-	-	-	-	-
Power Consumption	PoE: Max 22W, Typical 16.70W DC: Max 19W, Typical: 14W	PoE: Max 10.5W, typical 7.4W 12VDC: Max 8.6W, typical 5.8W Power redundancy failover	-	-	-
Dimensions (WxHxD) / Weight	W 200 x H 37 x D 146mm (7.87" x 1.46" x 5.75") 715g (1.58lb)	W 131.1 x H 33.5 x D 86mm (5.16" x 1.32" x 3.39") 420g	Ø24 x L49.8mm, 310g (SLA-T4680A) W 30 x H 27.9 x D 45mm, 321g (SLA-T4680VA)	Ø24 x L49.8mm, 318g (SLA-T2480A) W 30 x H 27.9 x D 45mm, 328g (SLA-T2480VA)	Ø35 x L68.9mm 430g (0.95lb)
Additional Features	compatible lens: SLA-T1080FA, SLA-T2480A, SLA-T2480VA, SLA-T4680A, SLA-T4680VA	compatible lens: SLA-T1080FA, SLA-T2480A, SLA-T2480VA, SLA-T4680A, SLA-T4680VA	-	-	-



**PNM-9322VQP**  
2MP/5MP x 4CH + 2MP 32 x PTZ



**SLA-5M7000P**  
5MP lens for PNM-9322VQP



**SLA-5M4600P**  
5MP lens for PNM-9322VQP



**SLA-5M3700P**  
5MP lens for PNM-9322VQP

Imaging Device	1/2.8" CMOS (PTZ)	1/1.8" CMOS	1/1.8" CMOS	1/1.8" CMOS
Min. Illumination	depeding on lens	Color: 0.16Lux (F1.6) B/W: 0.16Lux (F1.6)	Color: 0.16Lux (F1.6) B/W: 0.16Lux (F1.6)	Color: 0.16Lux (F1.6) B/W: 0.16Lux (F1.6)
Video Output	CVBS 1.0Vp-p	-	-	-
Focal Length	4.44~142.6mm (32x) zoom (PTZ)	7.0mm fixed	4.6mm fixed	3.7mm fixed
Angular Field of View	depeding on lens	H: 50.7°/V: 37.8°/D: 63.8°	H: 77.9°/V: 57.9°/D: 98.7°	H: 97.5°/V: 71.9°/D: 126.2°
Pan / Tilt / Rotate	-	±90°/+12°~ +93°/±180°	±90°/+21°~ +85°/±180°	±90°/+36°~ +73°/±180°
IR Viewable Length	-	-	-	-
Day & Night	Auto (Electrical)	Auto (Electrical)	Auto (Electrical)	Auto (Electrical)
Wide Dynamic Range	2MP 150dB, 5MP 120dB	120dB	120dB	120dB
Digital Noise Reduction	SSNRV	-	-	-
Digital Image Stabilization	Support	-	-	-
Analytics	Defocus detection, Directional detection, Face detection, Fog detection, Motion detection, Appear/Disappear, Enter/Exit, Loitering, Tampering, Virtual line	-	-	-
Business Intelligence	-	-	-	-
Alarm I/O	-	-	-	-
Audio I/O	Selectable (mic in/line in) / Line out (PTZ)	-	-	-
Video Compression	H.265 / H.264, MJPEG	-	-	-
Resolution / Max. Frame Rate	2MP / 60fps, 5MP 30fps	-	-	-
WiseStream	WiseStreamII	-	-	-
Streaming	Up to 10 Profiles	-	-	-
Edge Storage	micro SD/SDHC/SDXC	-	-	-
Application Programming Interface	ONVIF Profile S SUNAPI (HTTP API)	-	-	-
Operating Temperature	-35°C ~ +55°C (-31°F ~ +131°F) Less than 90% RH	-	-	-
Certification	IP66, IK10	-	-	-
Power Consumption	HPoE: Max 65W	-	-	-
Dimensions (WxHxD) / Weight	Ø367.8 x 335.7mm (Ø14.48" x 13.22") 7.05kg (16.1 lb)	Ø35.5 x 35.9 mm (Ø1.39" x 1.41") 35g (0.08 lb)	Ø35.5 x 35.9 mm (Ø1.39" x 1.41") 35g (0.08 lb)	Ø35.5 x 35.9 mm (Ø1.39" x 1.41") 35g (0.08 lb)
Additional Features	Exchangeable 4ea x 2MP / 5MP lens modules, Hallway view, Defog	-	-	-



SLA-2M6000P  
2MP lens for PNM-9322VQP



SLA-2M3600P  
2MP lens for PNM-9322VQP



SLA-2M2800P  
2MP lens for PNM-9322VQP



SLA-2M2400P  
2MP lens for PNM-9322VQP



SLA-2M1200P  
2MP lens for PNM-9322VQP

Imaging Device	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Min. Illumination	Color: 0.055Lux (F2.0) B/W: 0.055Lux (F2.0)	Color: 0.055Lux (F2.0) B/W: 0.055Lux (F2.0)	Color: 0.055Lux (F2.0) B/W: 0.055Lux (F2.0)	Color: 0.055Lux (F2.0) B/W: 0.055Lux (F2.0)	Color: 0.055Lux (F2.0) B/W: 0.055Lux (F2.0)
Video Output	-	-	-	-	-
Focal Length	6.0mm fixed	3.6mm fixed	2.8mm fixed	2.4mm fixed	12mm fixed
Angular Field of View	H: 50.4°/V: 28.8°/D: 58.1°	H: 94.8°/V: 49.3°/D: 114.3°	H: 107.4°/V: 62.2°/D: 122°	H: 135.4°/V: 71.2°/D: 161.6°	H: 26.3°/V: 14.9°/D: 30°
Pan / Tilt / Rotate	±90°/+10°~+95°/±180°	±90°/+22°~+84°/±180°	±90°/+26°~+80°/±180°	±90°/+52°~+56°/±180°	±90°/+10°~+97°/±180°
IR Viewable Length	-	-	-	-	-
Day & Night	Auto (Electrical)	Auto (Electrical)	Auto (Electrical)	Auto (Electrical)	Auto (Electrical)
Wide Dynamic Range	150dB	150dB	150dB	150dB	150dB
Digital Noise Reduction	-	-	-	-	-
Digital Image Stabilization	-	-	-	-	-
Analytics	-	-	-	-	-
Business Intelligence	-	-	-	-	-
Alarm I/O	-	-	-	-	-
Audio I/O	-	-	-	-	-
Video Compression	-	-	-	-	-
Resolution / Max. Frame Rate	-	-	-	-	-
WiseStream	-	-	-	-	-
Streaming	-	-	-	-	-
Edge Storage	-	-	-	-	-
Application Programming Interface	-	-	-	-	-
Operating Temperature	-	-	-	-	-
Certification	-	-	-	-	-
Power Consumption	-	-	-	-	-
Dimensions (WxHxD) / Weight	Ø35.5 x 35.9 mm (Ø1.39" x 1.41") 30g (0.07lb)	Ø35.5 x 35.9 mm (Ø1.39" x 1.41") 30g (0.07lb)	Ø35.5 x 35.9 mm (Ø1.39" x 1.41") 30g (0.07lb)	Ø35.5 x 35.9 mm (Ø1.39" x 1.41") 30g (0.07lb)	Ø35.5 x 35.9 mm (Ø1.39" x 1.41") 30g (0.07lb)
Additional Features	-	-	-	-	-





PNM-9002VQ  
2MP/5MP x 4CH Multi-directional Camera



SLA-5M7000Q  
5MP lens for PNM-9002VQ



SLA-5M4600Q  
5MP lens for PNM-9002VQ



SLA-5M3700Q  
5MP lens for PNM-9002VQ

Imaging Device	-	1/1.8" CMOS	1/1.8" CMOS	1/1.8" CMOS
Min. Illumination	-	Color: 0.16Lux (F1.6) B/W: 0.16Lux (F1.6)	Color: 0.16Lux (F1.6) B/W: 0.16Lux (F1.6)	Color: 0.16Lux (F1.6) B/W: 0.16Lux (F1.6)
Video Output	CVBS 1.0Vp-p (Multi)	-	-	-
Focal Length	-	7.0mm fixed	4.6mm fixed	3.7mm fixed
Angular Field of View	-	H: 50.7°/V: 37.8°/D: 63.8°	H: 77.9°/V: 57.9°/D: 98.7°	H: 97.5°/V: 71.9°/D: 126.2°
Pan / Tilt / Rotate	-	±90° / 40° ~ 89° / ±180°	±90° / 50° ~ 80° / ±180°	±90° / 59° ~ 66° / ±180°
IR Viewable Length	-	-	-	-
Day & Night	Auto (Electrical)	Auto (Electrical)	Auto (Electrical)	Auto (Electrical)
Wide Dynamic Range	2MP 150dB, 5MP 120dB	120dB	120dB	120dB
Digital Noise Reduction	SSNRV	-	-	-
Digital Image Stabilization	Support	-	-	-
Analytics	Defocus detection, Directional detection, Face detection, Fog detection, Motion detection, Appear/Disappear, Enter/Exit, Loitering, Tampering, Virtual line	-	-	-
Business Intelligence	-	-	-	-
Alarm I/O	-	-	-	-
Audio I/O	-	-	-	-
Video Compression	H.265 / H.264, MJPEG	-	-	-
Resolution / Max. Frame Rate	5MP / 30fps, 2MP / 60fps	-	-	-
WiseStream	WiseStreamII	-	-	-
Streaming	Up to 10 profiles	-	-	-
Edge Storage	micro SD/SDHC/SDXC	-	-	-
Application Programming Interface	ONVIF Profile S/T SUNAPI (HTTP API) Wisenet open platform	-	-	-
Operating Temperature	-40°C ~ +55°C (-40°F ~ +131°F) / Less than 90% RH	-	-	-
Certification	IP66, IK10	-	-	-
Power Consumption	Max 25.5W	-	-	-
Dimensions (WxHxD) / Weight	Ø253 x 130mm (Ø9.96" x 5.11") 3kg (6.61lb)	Ø35.5 x 35.9 mm (Ø1.39" x 1.41") 35g (0.08lb)	Ø35.5 x 35.9 mm (Ø1.39" x 1.41") 35g (0.08lb)	Ø35.5 x 35.9 mm (Ø1.39" x 1.41") 35g (0.08lb)
Additional Features	Defog	-	-	-



SLA-2M6000Q  
2MP lens for PNM-9002VQ



SLA-2M3600Q  
2MP lens for PNM-9002VQ



SLA-2M2800Q  
2MP lens for PNM-9002VQ



SLA-2M2400Q  
2MP lens for PNM-9002VQ

Imaging Device	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Min. Illumination	Color : 0.055Lux (F2.0) B/W : 0.055Lux (F2.0)	Color : 0.055Lux (F2.0) B/W : 0.055Lux (F2.0)	Color : 0.055Lux (F2.0) B/W : 0.055Lux (F2.0)	Color : 0.055Lux (F2.0) B/W : 0.055Lux (F2.0)
Video Output	-	-	-	-
Focal Length	6.0mm fixed	3.6mm fixed	2.8mm fixed	2.4mm fixed
Angular Field of View	H: 50.4°/V: 28.8°/D: 58.1°	H: 94.8°/V: 49.3°/D: 114.3°	H: 107.4°/V: 62.2°/D: 122°	H: 135.4°/V: 71.2°/D: 161.6°
Pan / Tilt / Rotate	±90°/30°~89°/±180°	±90°/37°~89°/±180°	±90°/40°~89°/±180°	±90°/62°/±180°
IR Viewable Length	-	-	-	-
Day & Night	Auto (Electrical)	Auto (Electrical)	Auto (Electrical)	Auto (Electrical)
Wide Dynamic Range	150dB	150dB	150dB	150dB
Digital Noise Reduction	-	-	-	-
Digital Image Stabilization	-	-	-	-
Analytics	-	-	-	-
Business Intelligence	-	-	-	-
Alarm I/O	-	-	-	-
Audio I/O	-	-	-	-
Video Compression	-	-	-	-
Resolution / Max. Frame Rate	-	-	-	-
WiseStream	-	-	-	-
Streaming	-	-	-	-
Edge Storage	-	-	-	-
Application Programming Interface	-	-	-	-
Operating Temperature	-	-	-	-
Certification	-	-	-	-
Power Consumption	-	-	-	-
Dimensions (WxHxD) / Weight	Ø35.5 x 35.9 mm (Ø1.39" x 1.41") 30g (0.07lb)	Ø35.5 x 35.9 mm (Ø1.39" x 1.41") 30g (0.07lb)	Ø35.5 x 35.9 mm (Ø1.39" x 1.41") 30g (0.07lb)	Ø35.5 x 35.9 mm (Ø1.39" x 1.41") 30g (0.07lb)
Additional Features	-	-	-	-



**QNO-8080R**  
5MP IR Bullet Camera



**QNO-8020R**  
5MP IR Bullet Camera



**QNO-8010R**  
5MP IR Bullet Camera



**QND-8080R**  
5MP IR Dome Camera

Imaging Device	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Min. Illumination	Color: 0.15Lux (F1.6) B/W: 0Lux (IR LED on)	Color: 0.15Lux (F1.6) B/W: 0Lux (IR LED on)	Color: 0.15Lux (F2.0) B/W: 0Lux (IR LED on)	Color: 0.15Lux (F1.6) B/W: 0Lux (IR LED on)
Video Output	CVBS 0.15Vp-p	CVBS 1.0Vp-p	CVBS 1.0Vp-p	CVBS 1.0Vp-p
Focal Length	3.2 ~ 10mm (3.1x) motorized varifocal	4.0mm fixed	2.8mm fixed	3.2 ~ 10mm (3.1x) motorized varifocal
Angular Field of View	H: 100.3°(Wide) ~ 31.2°(Tele) V: 72.3°(Wide) ~ 23.5°(Tele) D: 133.1°(Wide) ~ 38.8°(Tele)	H: 79.8° / V: 58.1° / D: 105.9°	H: 104.7° / V: 76.5° / D: 136°	H: 100.3°(Wide) ~ 31.2°(Tele) V: 72.3°(Wide) ~ 23.5°(Tele) D: 133.1°(Wide) ~ 38.8°(Tele)
Pan / Tilt / Rotate	-	-	-	0°-350° / 0°-67° / 0°-355°
IR Viewable Length	30m (98.43ft)	25m (82.02ft)	20m (65.62ft)	20m (65.62ft)
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	120dB	120dB	120dB	120dB
Digital Noise Reduction	SSNR	SSNR	SSNR	SSNR
Digital Image Stabilization	-	-	-	-
Analytics	Intelligent analytics	Intelligent analytics	Intelligent analytics	Intelligent analytics
Business Intelligence	-	-	-	-
Alarm I/O	1 / 1	1 / 1	1 / 1	1 / 1
Audio I/O	-	-	-	-
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	5MP / 30fps	5MP / 30fps	5MP / 30fps	5MP / 30fps
WiseStream	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII
Streaming	Up to 3 Profiles	Up to 3 Profiles	Up to 3 Profiles	Up to 3 Profiles
Edge Storage	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC
Application Programming Interface	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform
Operating Temperature	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -20°C (-4°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -20°C (-4°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -20°C (-4°F)	-10°C ~ +50°C (+14°F ~ +122°F)
Certification	IP66, IK10	IP66, IK10	IP66, IK10	-
Power Consumption	PoE: Max 9.5W, typical 7.3W	PoE: Max 7.5W, typical 6.1W	PoE: Max 7.5W, typical 6.1W	PoE: Max 8.9W, typical 6.6W
Dimensions (WxHxD) / Weight	Ø91 x 322.9mm (Ø3.58" x 12.71") 1.19kg (2.624lb)	Ø70 x 246mm (Ø2.76" x 9.69") 680g (1.499lb)	Ø70 x 246mm (Ø2.76" x 9.69") 680g (1.499lb)	Ø120.3 x 102mm (Ø4.74" x 4.02") 430g (0.948lb)
Additional Features	Hallway View	Hallway View	Hallway View	Hallway View



**QND-8020R**  
5MP IR Dome Camera



**QND-8010R**  
5MP IR Dome Camera



**Q mini**  
**QND-8021**  
5MP Dome Camera



**Q mini**  
**QND-8011**  
5MP Dome Camera

Imaging Device	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Min. Illumination	Color: 0.15Lux (F1.6) B/W: 0Lux (IR LED on)	Color: 0.15Lux (F2.0) B/W: 0Lux (IR LED on)	Color: 0.15Lux (F1.6)	Color: 0.15Lux (F2.0)
Video Output	CVBS 1.0Vp-p	CVBS 1.0Vp-p	Micro HDMI	Micro HDMI
Focal Length	4.0mm fixed	2.8mm fixed	4mm fixed	2.8mm fixed
Angular Field of View	H: 79.8° / V: 58.1° / D: 105.9°	H: 104.7° / V: 76.5° / D: 136°	H: 80.1° / V: 58° / D: 105.8°	H: 104.4° / V: 76.7° / D: 136.1°
Pan / Tilt / Rotate	0°~ 350° / 0°~ 67° / 0°~ 355°	0°~ 350° / 0°~ 67° / 0°~ 355°	0°~ 350° / 0°~ 69° / 0°~ 355°	0°~ 350° / 0°~ 69° / 0°~ 355°
IR Viewable Length	20m (65.62ft)	20m (65.62ft)	-	-
Day & Night	Auto (ICR)	Auto (ICR)	Auto (Electrical)	Auto (Electrical)
Wide Dynamic Range	120dB	120dB	120dB	120dB
Digital Noise Reduction	SSNR	SSNR	SSNR	SSNR
Digital Image Stabilization	-	-	-	-
Analytics	Intelligent analytics	Intelligent analytics	Intelligent analytics	Intelligent analytics
Business Intelligence	-	-	People counting	People counting
Alarm I/O	1 / 1	1 / 1	-	-
Audio I/O	-	-	-	-
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	5MP / 30fps	5MP / 30fps	5MP / 30fps	5MP / 30fps
WiseStream	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII
Streaming	Up to 3 Profiles	Up to 3 Profiles	Up to 3 Profiles	Up to 3 Profiles
Edge Storage	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC
Application Programming Interface	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform
Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F)	-10°C ~ +50°C (+14°F ~ +122°F)	-10°C ~ +40°C (+14°F ~ +104°F)	-10°C ~ +40°C (+14°F ~ +104°F)
Certification	-	-	IP42, IK08	IP42, IK08
Power Consumption	PoE: Max 6.8W, typical 5W	PoE: Max 7.5W, typical 5.8W	PoE: Max 5W, typical 4W	PoE: Max 5W, typical 4W
Dimensions (WxHxD) / Weight	Ø110.6 x 89.5mm (Ø4.35" x 3.52") 360g (0.794lb)	Ø110.6 x 89.5mm (Ø4.35" x 3.52") 360g (0.794lb)	Ø99 x 56mm (Ø3.9" x 2.2") 165g (0.364lb)	Ø99 x 56mm (Ø3.9" x 2.2") 165g (0.364lb)
Additional Features	Hallway View	Hallway View	Super compact design, Hallway View	Super compact design, Hallway View



**QNV-8080R**  
5MP IR Vandal Dome Camera



**QNV-8020R**  
5MP IR Vandal Dome Camera



**QNV-8010R**  
5MP IR Vandal Dome Camera



**QNE-8011R**  
5MP IR Flateye Camera

Imaging Device	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Min. Illumination	Color: 0.15Lux (F1.6) B/W: 0Lux (IR LED on)	Color: 0.15Lux (F1.6) B/W: 0Lux (IR LED on)	Color: 0.15Lux (F2.0) B/W: 0Lux (IR LED on)	Color: 0.15Lux (F2.0) B/W: 0Lux (IR LED on)
Video Output	CVBS 1.0Vp-p	CVBS 1.0Vp-p	CVBS 1.0Vp-p	-
Focal Length	3.2~10mm (3.1x) motorized varifocal	4.0mm fixed	2.8mm fixed	2.8mm fixed
Angular Field of View	H: 100.3°(Wide) ~ 31.2°(Tele) V: 72.3°(Wide) ~ 23.5°(Tele) D: 133.1°(Wide) ~ 38.8°(Tele)	H: 79.8° / V: 58.1° / D: 105.9°	H: 104.7° / V: 76.5° / D: 136°	H: 104.4° V: 76.7° D: 136.1°
Pan / Tilt / Rotate	0°- 350° / 0°- 67° / 0°- 355°	0°- 350° / 0°- 67° / 0°- 355°	0°- 350° / 0°- 67° / 0°- 355°	0°- 350° / 0°- 75° / 0°- 360°
IR Viewable Length	30m (98.42ft)	25m (82.02ft)	20m (65.62ft)	20m (65.62ft)
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	120dB	120dB	120dB	120dB
Digital Noise Reduction	SSNR	SSNR	SSNR	SSNR
Digital Image Stabilization	-	-	-	-
Analytics	Intelligent analytics	Intelligent analytics	Intelligent analytics	Intelligent analytics
Business Intelligence	-	-	-	-
Alarm I/O	1 / 1	1 / 1	1 / 1	-
Audio I/O	-	-	-	-
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	5MP / 30fps	5MP / 30fps	5MP / 30fps	5MP / 30fps
WiseStream	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII
Streaming	Up to 3 Profiles	Up to 3 Profiles	Up to 3 Profiles	Up to 3 Profiles
Edge Storage	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC
Application Programming Interface	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform
Operating Temperature	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -20°C (-4°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -20°C (-4°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -20°C (-4°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -20°C (-4°F)
Certification	IP66, IK10	IP66, IK10	IP66, IK10	IP67, IK10
Power Consumption	PoE: Max 8.9W, typical 6.6W	PoE: Max 7.2W, typical 5.4W	PoE: Max 7.5W, typical 5.8W	PoE: Max 7.4W, typical 5.5W
Dimensions (WxHxD) / Weight	Ø137 x 106.1mm (Ø5.39" x 4.18") 700g (1.543lb)	Ø120.3 x 91.7mm (Ø4.74" x 3.61") 510g (1.124lb)	Ø120.3 x 91.7mm (Ø4.74" x 3.61") 510g (1.124lb)	Ø125 x 87.35mm (Ø4.92" x 3.44") 645g (1.422lb)
Additional Features	Hallway View	Hallway View	Hallway View	Hallway View



**QNO-7082R**  
4MP IR Bullet Camera



**QNO-7022R**  
4MP IR Bullet Camera



**QNO-7012R**  
4MP IR Bullet Camera

Imaging Device	1/3" CMOS	1/3" CMOS	1/3" CMOS
Min. Illumination	Color: 0.1Lux (F1.6, 1/30sec) B/W: 0Lux (IR LED On)	Color: 0.15Lux (F1.6, 1/30sec) B/W: 0Lux (IR LED On)	Color: 0.15Lux (F2.0, 1/30sec) B/W: 0Lux (IR LED On)
Video Output	CVBS 1.0Vp-p	CVBS 1.0Vp-p	CVBS 1.0Vp-p
Focal Length	3.2~10mm (3.1x) motorized varifocal	4mm fixed focal	2.8mm fixed focal
Angular Field of View	H: 98.6°(Wide) ~ 30.8°(Tele) V: 52.3°(Wide) ~ 17.3°(Tele) D: 115.7°(Wide) ~ 35.3°(Tele)	H: 78.2° V: 41.2° D: 92°	H: 107.5° V: 59.7° D: 122°
Pan / Tilt / Rotate	-	-	-
IR Viewable Length	30m (98.42ft)	25m (82.02ft)	20m (65.62ft)
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	120dB	120dB	120dB
Digital Noise Reduction	SSNR	SSNR	SSNR
Digital Image Stabilization	-	-	-
Analytics	Intelligent analytics	Intelligent analytics	Intelligent analytics
Business Intelligence	-	-	-
Alarm I/O	1/1	1/1	1/1
Audio I/O	Line in / -	Selectable (mic in/line in) / -	Selectable (mic in/line in) / -
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	4MP / 30fps	4MP / 30fps	4MP / 30fps
WiseStream	WiseStreamII	WiseStreamII	WiseStreamII
Streaming	Up to 3 Profiles	Up to 3 Profiles	Up to 3 Profiles
Edge Storage	micro SD/SDHC/SDXC 1slot 128GB	micro SD/SDHC/SDXC 1slot 128GB	micro SD/SDHC/SDXC 1slot 128GB
Application Programming Interface	ONVIF Profile S/G/T, SUNAPI (HTTP API)	ONVIF Profile S/G/T, SUNAPI (HTTP API)	ONVIF Profile S/G/T, SUNAPI (HTTP API)
Operating Temperature	-40°C ~ +55°C (-40°F ~ +131°F) / Less than 95% RH * Start up should be done at -30°C or above	-40°C ~ +55°C (-40°F ~ +131°F) / Less than 95% RH * Start up should be done at -30°C or above	-40°C ~ +55°C (-40°F ~ +131°F) / Less than 95% RH * Start up should be done at -30°C or above
Certification	IP66, IK10	IP66, IK10	IP66, IK10
Power Consumption	PoE: Max 11.4W, typical 8W 12VDC: Max 9.6W, typical 7W	PoE: Max 10.7W, typical 8W 12VDC: Max 9.1W, typical 6.8W	PoE: Max 10.7W, typical 8W 12VDC: Max 9.1W, typical 6.8W
Dimensions (WxHxD) / Weight	Ø78 x 259.8mm (Ø3.07" x 10.23") 900g (1.984 lb)	Ø70 x 246mm (Ø2.76" x 9.69") 700g (1.543 lb)	Ø70 x 246mm (Ø2.76" x 9.69") 700g (1.543 lb)
Additional Features	Defocus detection, Directional detection, Motion detection, Enter/Exit, Tampering, Virtual line	Defocus detection, Directional detection, Motion detection, Enter/Exit, Tampering, Virtual line	Defocus detection, Directional detection, Motion detection, Enter/Exit, Tampering, Virtual line



QNO-6082R/6082R1  
2MP IR Bullet Camera



QNO-6072R/6072R1  
2MP IR Bullet Camera



QNO-6022R/6022R1  
2MP IR Bullet Camera



QNO-6012R/6012R1  
2MP IR Bullet Camera

Imaging Device	1/2.8" CMOS		1/2.8" CMOS		1/2.8" CMOS		1/2.8" CMOS	
Min. Illumination	Color: 0.03Lux (F1.6) B/W: 0Lux (IR LED on)		Color: 0.03Lux (F1.6) B/W: 0Lux (IR LED on)		Color: 0.03Lux (F1.6) B/W: 0Lux (IR LED on)		Color: 0.03Lux (F2.0) B/W: 0Lux (IR LED on)	
Video Output	CVBS 1.0Vp-p		CVBS 1.0Vp-p		CVBS 1.0Vp-p		CVBS 1.0Vp-p	
Focal Length	3.2 ~ 10mm (3.1x) motorized varifocal		3.2 ~ 10mm (3.1x) manual varifocal		4mm fixed		2.8mm fixed	
Angular Field of View	H: 109° (Wide) ~ 33.2° (Tele) V: 57.4° (Wide) ~ 18.7° (Tele) D: 132° (Wide) ~ 38° (Tele)		H: 109° (Wide) ~ 33.2° (Tele) V: 57.4° (Wide) ~ 18.7° (Tele) D: 132° (Wide) ~ 38° (Tele)		H: 87.6° / V: 46.4° / D: 104.5°		H: 113.74° / V: 61.5° / D: 134.45°	
Pan / Tilt / Rotate	-		-		-		-	
IR Viewable Length	30m (98.43ft)		30m (98.43ft)		25m (82.02ft)		20m (65.62ft)	
Day & Night	Auto (ICR)		Auto (ICR)		Auto (ICR)		Auto (ICR)	
Wide Dynamic Range	120dB		120dB		120dB		120dB	
Digital Noise Reduction	SSNR		SSNR		SSNR		SSNR	
Digital Image Stabilization	-		-		-		-	
Analytics	Intelligent analytics		Intelligent analytics		Intelligent analytics		Intelligent analytics	
Business Intelligence	-		-		-		-	
Alarm I/O	1 / 1		1 / 1		1 / 1		1 / 1	
Audio I/O	Selectable (mic in/line in)	-	Selectable (mic in/line in)	-	Selectable (mic in/line in)	-	Selectable (mic in/line in)	-
Video Compression	H.265 / H.264, MJPEG		H.265 / H.264, MJPEG		H.265 / H.264, MJPEG		H.265 / H.264, MJPEG	
Resolution / Max. Frame Rate	2MP / 30fps		2MP / 30fps		2MP / 30fps		2MP / 30fps	
WiseStream	WiseStreamII		WiseStreamII		WiseStreamII		WiseStreamII	
Streaming	Up to 3 Profiles		Up to 3 Profiles		Up to 3 Profiles		Up to 3 Profiles	
Edge Storage	micro SD/SDHC/SDXC		micro SD/SDHC/SDXC		micro SD/SDHC/SDXC		micro SD/SDHC/SDXC	
Application Programming Interface	ONVIF profile S/G/T, SUNAPI, Wisenet open platform		ONVIF profile S/G/T, SUNAPI, Wisenet open platform		ONVIF profile S/G/T, SUNAPI, Wisenet open platform		ONVIF profile S/G/T, SUNAPI, Wisenet open platform	
Operating Temperature	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -20°C (-4°F)		-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -20°C (-4°F)		-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -20°C (-4°F)		-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -20°C (-4°F)	
Certification	IP66, IK10		IP66, IK10		IP66, IK10		IP66, IK10	
Power Consumption	PoE: Max 7.4W, typical 5.4W 12VDC: Max 6.5W, typical 4.8W		PoE: Max 7.4W, typical 5.4W 12VDC: Max 6.5W, typical 4.8W		PoE: Max 7W, typical 5.2W 12VDC: Max 6.1W, typical 4.5W		PoE: Max 7W, typical 5.2W 12VDC: Max 6.1W, typical 4.5W	
Dimensions (WxHxD) / Weight	Ø78 x 259.8mm (Ø3.07" x 10.23") 900g (1.984lb)		Ø70 x 246mm (Ø2.76" x 9.69") 730g (1.609lb)		Ø70 x 246mm (Ø2.76" x 9.69") 700g (1.543lb)		Ø70 x 246mm (Ø2.76" x 9.69") 700g (1.543lb)	
Additional Features	Hallway View		Hallway View		Hallway View		Hallway View	



**QND-7082R**  
4MP IR Dome Camera



**QND-7022R**  
4MP IR Dome Camera



**QND-7012R**  
4MP IR Dome Camera

Imaging Device	1/3" CMOS	1/3" CMOS	1/3" CMOS
Min. Illumination	Color: 0.1Lux (F1.6, 1/30sec) B/W: 0Lux (IR LED On)	Color: 0.15Lux (F2.0, 1/30sec) B/W: 0Lux (IR LED On)	Color: 0.15Lux (F2.0, 1/30sec) B/W: 0Lux (IR LED On)
Video Output	CVBS 1.0Vp-p	CVBS 1.0Vp-p	CVBS 1.0Vp-p
Focal Length	3.2~10mm (3.1x) motorized varifocal	4mm fixed focal	2.8mm fixed focal
Angular Field of View	H: 98.6°(Wide) ~ 30.8°(Tele) V: 52.3°(Wide) ~ 17.3°(Tele) D: 115.7°(Wide) ~ 35.3°(Tele)	H: 78.2° V: 41.2° D: 92°	H: 107.5° V: 59.7° D: 122°
Pan / Tilt / Rotate	0°- 350° / 0°- 67° / 0°- 355°	0°- 350° / 0°- 67° / 0°- 355°	0°- 350° / 0°- 67° / 0°- 355°
IR Viewable Length	20m (65.62ft)	20m (65.62ft)	20m (65.62ft)
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	120dB	120dB	120dB
Digital Noise Reduction	SSNR	SSNR	SSNR
Digital Image Stabilization	-	-	-
Analytics	Intelligent analytics	Intelligent analytics	Intelligent analytics
Business Intelligence	-	-	-
Alarm I/O	1/1	1/1	1/1
Audio I/O	Built-in mic / -	Built-in mic / -	Built-in mic / -
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	4MP / 30fps	4MP / 30fps	4MP / 30fps
WiseStream	WiseStreamII	WiseStreamII	WiseStreamII
Streaming	Up to 3 Profiles	Up to 3 Profiles	Up to 3 Profiles
Edge Storage	micro SD/SDHC/SDXC 1slot 128GB	micro SD/SDHC/SDXC 1slot 128GB	micro SD/SDHC/SDXC 1slot 128GB
Application Programming Interface	ONVIF Profile S/G/T, SUNAPI (HTTP API)	ONVIF Profile S/G/T, SUNAPI (HTTP API)	ONVIF Profile S/G/T, SUNAPI (HTTP API)
Operating Temperature	-10°C ~ +55°C (+14°F ~ +131°F) / Less than 95% RH	-10°C ~ +55°C (+14°F ~ +131°F) / Less than 95% RH	-10°C ~ +55°C (+14°F ~ +131°F) / Less than 95% RH
Certification	-	-	-
Power Consumption	PoE: Max 8.6W, typical 6.3W 12VDC: Max 7.6W, typical 5.4W	PoE: Max 7.9W, typical 6.1W 12VDC: Max 7.1W, typical 5.1W	PoE: Max 7.9W, typical 6.1W 12VDC: Max 7.1W, typical 5.1W
Dimensions (WxHxD) / Weight	Ø119.8 x 98.8mm (Ø4.72" x 3.89") 320g (0.705 lb)	Ø110 x 86mm (Ø4.33" x 3.39") 255g (0.562 lb)	Ø110 x 86mm (Ø4.33" x 3.39") 255g (0.562 lb)
Additional Features	Defocus detection, Directional detection, Motion detection, Enter/Exit, Tampering, Virtual line		





QND-6082R/6082R1  
2MP IR Dome Camera



QND-6072R/6072R1  
2MP IR Dome Camera



QND-6022R/6022R1  
2MP IR Dome Camera



QND-6012R/6012R1  
2MP IR Dome Camera

Imaging Device	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Min. Illumination	Color: 0.03Lux (F1.6) B/W: 0Lux (IR LED on)	Color: 0.03Lux (F1.6) B/W: 0Lux (IR LED on)	Color: 0.03Lux (F1.6) B/W: 0Lux (IR LED on)	Color: 0.03Lux (F2.0) B/W: 0Lux (IR LED on)
Video Output	CVBS 1.0Vp-p	CVBS 1.0Vp-p	CVBS 1.0Vp-p	CVBS 1.0Vp-p
Focal Length	3.2~10mm (3.1x) motorized varifocal	3.2~10mm (3.1x) manual varifocal	4mm fixed	2.8mm fixed
Angular Field of View	H: 109°(Wide) ~ 33.2°(Tele) V: 57.4°(Wide) ~ 18.7°(Tele) D: 132°(Wide) ~ 38°(Tele)	H: 109°(Wide) ~ 33.2°(Tele) V: 57.4°(Wide) ~ 18.7°(Tele) D: 132°(Wide) ~ 38°(Tele)	H: 87.6°/ V: 46.4°/ D: 104.5°	H: 113.74°/ V: 61.5°/ D: 134.45°
Pan / Tilt / Rotate	0°- 350° / 0°- 67° / 0°- 355°	0°- 350° / 0°- 67° / 0°- 355°	0°- 350° / 0°- 67° / 0°- 355°	0°- 350° / 0°- 67° / 0°- 355°
IR Viewable Length	20m (65.62ft)	20m (65.62ft)	20m (65.62ft)	20m (65.62ft)
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	120dB	120dB	120dB	120dB
Digital Noise Reduction	SSNR	SSNR	SSNR	SSNR
Digital Image Stabilization	-	-	-	-
Analytics	Intelligent analytics	Intelligent analytics	Intelligent analytics	Intelligent analytics
Business Intelligence	-	-	-	-
Alarm I/O	1 / 1	1 / 1	1 / 1	1 / 1
Audio I/O	Built-in mic	Built-in mic	Built-in mic	Built-in mic
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	2MP / 30fps	2MP / 30fps	2MP / 30fps	2MP / 30fps
WiseStream	WiseStream°C	WiseStreamII	WiseStreamII	WiseStreamII
Streaming	Up to 3 Profiles	Up to 3 Profiles	Up to 3 Profiles	Up to 3 Profiles
Edge Storage	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC
Application Programming Interface	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform
Operating Temperature	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)
Certification	-	-	-	-
Power Consumption	PoE: Max 7.7W, typical 6W 12VDC: Max 6.5W, typical 5.1W	PoE: Max 7.7W, typical 6W 12VDC: Max 6.5W, typical 5.1W	PoE: Max 7.4W, typical 6W 12VDC: Max 6.4W, typical 5.1W	PoE: Max 7.4W, typical 6W 12VDC: Max 6.4W, typical 5.1W
Dimensions (WxHxD) / Weight	Ø119.8 x 98.8mm (Ø4.72" x 3.89") 320g (0.705lb)	Ø119.8 x 98.8mm (Ø4.72" x 3.89") 320g (0.705lb)	Ø110 x 86mm (Ø4.33" x 3.39") 255g (0.562lb)	Ø110 x 86mm (Ø4.33" x 3.39") 255g (0.562lb)
Additional Features	Hallway View	Hallway View	Hallway View	Hallway View

Q mini


**QND-6021**  
 2MP Dome Camera

Q mini


**QND-6011**  
 2MP Dome Camera

**QNV-7082R**  
 4MP IR Vandal Dome Camera

Imaging Device	1/2.8" CMOS	1/2.8" CMOS	1/3" CMOS
Min. Illumination	Color : 0.03Lux (F1.6)	Color : 0.03Lux (F2.0)	Color : 0.1Lux (F1.6, 1/30sec) B/W : 0Lux (IR LED On)
Video Output	Micro HDMI	Micro HDMI	CVBS 1.0Vp-p
Focal Length	4mm fixed	2.8mm fixed	3.2 ~ 10mm (3.1x) motorized varifocal
Angular Field of View	H : 87.6° / V : 46.4° / D : 104.5°	H : 113.74° / V : 61.5° / D : 134.45°	H : 98.6°(Wide) ~ 30.8°(Tele) V : 52.3°(Wide) ~ 17.3°(Tele) D : 115.7°(Wide) ~ 35.3°(Tele)
Pan / Tilt / Rotate	0°~ 350° / 0°~ 69° / 0°~ 355°	0°~ 350° / 0°~ 69° / 0°~ 355°	0°~ 350° / 0°~ 67° / 0°~ 355°
IR Viewable Length	-	-	30m (98.42ft)
Day & Night	Auto (Electrical)	Auto (Electrical)	Auto (ICR)
Wide Dynamic Range	120dB	120dB	120dB
Digital Noise Reduction	SSNR	SSNR	SSNR
Digital Image Stabilization	-	-	-
Analytics	Intelligent analytics	Intelligent analytics	Intelligent analytics
Business Intelligence	People counting	People counting	-
Alarm I/O	-	-	1 / 1
Audio I/O	-	-	Line in / -
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	2MP / 30fps	2MP / 30fps	4MP / 30fps
WiseStream	WiseStreamII	WiseStreamII	WiseStreamII
Streaming	Up to 3 Profiles	Up to 3 Profiles	Up to 3 Profiles
Edge Storage	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC 1slot 128GB
Application Programming Interface	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF Profile S/G/T, SUNAPI (HTTP API)
Operating Temperature	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-40°C ~ +55°C (-40°F ~ +131°F) / Less than 95% RH * Start up should be done at -30°C or above
Certification	IP42, IK08	IP42, IK08	IP66, IK10
Power Consumption	PoE : Max 4.8W, typical 2.8W	PoE : Max 4.8W, typical 2.8W	PoE: Max 11.4W, typical 8.5W 12VDC: Max 9.6W, typical 7.2W
Dimensions (WxHxD) / Weight	Ø99 x 56mm (Ø3.9" x 2.2") 145g (0.320lb)	Ø99 x 56mm (Ø3.9" x 2.2") 145g (0.320lb)	Ø137 x 106.1mm (Ø5.39" x 4.18") 710g (1.565 lb)
Additional Features	Super compact design, Hallway View	Super compact design, Hallway View	Defocus detection, Directional detection, Motion detection, Enter/Exit, Tampering, Virtual line



**QNV-7022R**  
4MP IR Vandal Dome Camera



**QNV-7012R**  
4MP IR Vandal Dome Camera



**QNV-6082R/6082R1**  
2MP IR Vandal Dome Camera



**QNV-6072R/6072R1**  
2MP IR Vandal Dome Camera

Imaging Device	1/3" CMOS	1/3" CMOS	1/2.8" CMOS	1/2.8" CMOS
Min. Illumination	Color: 0.15Lux (F1.6, 1/30sec) B/W: 0Lux (IR LED On)	Color: 0.15Lux (F2.0, 1/30sec) B/W: 0Lux (IR LED On)	Color: 0.03Lux (F1.6) B/W: 0Lux (IR LED on)	Color: 0.03Lux (F1.6) B/W: 0Lux (IR LED on)
Video Output	CVBS 1.0Vp-p	CVBS 1.0Vp-p	CVBS 1.0Vp-p	CVBS 1.0Vp-p
Focal Length	4mm fixed focal	2.8mm fixed focal	3.2 ~ 10mm (3.1x) motorized varifocal	3.2 ~ 10mm (3.1x) manual varifocal
Angular Field of View	H: 78.2°/V: 41.2°/D: 92°	H: 78.2°/V: 41.2°/D: 92°	H: 109°(Wide) ~ 33.2°(Tele) V: 57.4°(Wide) ~ 18.7°(Tele) D: 132°(Wide) ~ 38°(Tele)	H: 109°(Wide) ~ 33.2°(Tele) V: 57.4°(Wide) ~ 18.7°(Tele) D: 132°(Wide) ~ 38°(Tele)
Pan / Tilt / Rotate	0°~ 350°/ 0°~ 67°/ 0°~ 355°	0°~ 350°/ 0°~ 67°/ 0°~ 355°	0°~ 350°/ 0°~ 67°/ 0°~ 355°	0°~ 350°/ 0°~ 67°/ 0°~ 355°
IR Viewable Length	25m (82.02ft)	20m (65.62ft)	30m (98.42ft)	30m (98.42ft)
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	120dB	120dB	120dB	120dB
Digital Noise Reduction	SSNR	SSNR	SSNR	SSNR
Digital Image Stabilization	-	-	-	-
Analytics	Intelligent analytics	Intelligent analytics	Intelligent analytics	Intelligent analytics
Business Intelligence	-	-	-	-
Alarm I/O	1 / 1	1 / 1	1 / 1	1 / 1
Audio I/O	Selectable (mic in/line in) / -	Selectable (mic in/line in) / -	Selectable (mic in/line in) / -	Selectable (mic in/line in) / -
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	4MP / 30fps	4MP / 30fps	2MP / 30fps	2MP / 30fps
WiseStream	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII
Streaming	Up to 3 Profiles	Up to 3 Profiles	Up to 3 Profiles	Up to 3 Profiles
Edge Storage	micro SD/SDHC/SDXC 1slot 128GB	micro SD/SDHC/SDXC 1slot 128GB	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC
Application Programming Interface	ONVIF Profile S/G/T, SUNAPI (HTTP API)	ONVIF Profile S/G/T, SUNAPI (HTTP API)	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform
Operating Temperature	-40°C ~ +55°C (-40°F ~ +131°F) / Less than 95% RH * Start up should be done at -30°C or above	-40°C ~ +55°C (-40°F ~ +131°F) / Less than 95% RH * Start up should be done at -30°C or above	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -20°C (-4°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -20°C (-4°F)
Certification	IP66, IK10	IP66, IK10	IP66, IK10	IP66, IK10
Power Consumption	PoE: Max 10.7W, typical 8.1W 12VDC: Max 9.1W, typical 6.5W	PoE: Max 10.7W, typical 8.1W 12VDC: Max 9.1W, typical 6.5W	PoE: Max 7.7W, typical 6W 12VDC: Max 6.5W	PoE: Max 7.7W, typical 6W 12VDC: Max 6.5W
Dimensions (WxHxD) / Weight	Ø120.3 x 91.7mm (Ø4.74" x 3.61") 510g (1.124 lb)	Ø120.3 x 91.7mm (Ø4.74" x 3.61") 510g (1.124 lb)	Ø137 x 106.1mm (Ø5.39" x 4.18") 710g (1.565 lb)	Ø137 x 106.1mm (Ø5.39" x 4.18") 710g (1.565 lb)
Additional Features	Defocus detection, Directional detection, Motion detection, Enter/Exit, Tampering, Virtual line	Defocus detection, Directional detection, Motion detection, Enter/Exit, Tampering, Virtual line	HallwayView	HallwayView



**QNV-6022R/6022R1**  
2MP IR Vandal Dome Camera



**QNV-6012R/6012R1**  
2MP IR Vandal Dome Camera



**QNV-6024RM**  
2MP IR Flat Camera



**QNP-6320**  
2MP 32x PTZ Camera

Imaging Device	1/2.8" CMOS		1/2.8" CMOS		1/2.8" CMOS		1/2.8" CMOS	
Min. Illumination	Color: 0.03Lux (F1.6) B/W: 0Lux (IR LED on)		Color: 0.03Lux (F2.0) B/W: 0Lux (IR LED on)		Color: 0.03Lux (F2.0) B/W: 0Lux (IR LED on)		Color: 0.05Lux (F1.6, 1/30sec) BW: 0.005Lux (F1.6, 1/30sec)	
Video Output	CVBS 1.0Vp-p		CVBS 1.0Vp-p		CVBS 1.0Vp-p		-	
Focal Length	4mm fixed		2.8mm fixed		3.6mm fixed		4.44 ~ 142.6mm (32x) zoom	
Angular Field of View	H: 87.6° / V: 46.4° / D: 104.5°		H: 113.74° / V: 61.5° / D: 134.45°		H: 94.8° / V: 49.3° / D: 114.3°		H: 64.66° (Wide) ~ 2.29° (Tele) V: 38.08° (Wide) ~ 1.30° (Tele)	
Pan / Tilt / Rotate	0°~ 350° / 0°~ 67° / 0°~ 355°		0°~ 350° / 0°~ 67° / 0°~ 355°		±5° / 0 ~ 67° / ±90°		-	
IR Viewable Length	25m (82.02ft)		20m (65.62ft)		15m (49.21ft)		-	
Day & Night	Auto (ICR)		Auto (ICR)		Auto (ICR)		Auto (ICR)	
Wide Dynamic Range	120dB		120dB		120dB		120dB	
Digital Noise Reduction	SSNR		SSNR		SSNR		SSNRV	
Digital Image Stabilization	-		-		-		Support (built-in gyro sensor)	
Analytics	Intelligent analytics		Intelligent analytics		Intelligent analytics		Directional detection, Motion detection, Enter/Exit, Tampering, Virtual line, Audio detection	
Business Intelligence	-		-		-		-	
Alarm I/O	1 / 1		1 / 1		-		4 / 2	
Audio I/O	Selectable (mic in/line in)	-	Selectable (mic in/line in)	-	Selectable (Built-in mic) / Line out		Selectable (mic in/line in) / Line out	
Video Compression	H.265 / H.264, MJPEG		H.265 / H.264, MJPEG		H.265 / H.264, MJPEG		H.265 / H.264, MJPEG	
Resolution / Max. Frame Rate	2MP / 30fps		2MP / 30fps		2MP / 30fps		2MP / 60fps	
WiseStream	WiseStreamII		WiseStreamII		WiseStreamII		WiseStreamII	
Streaming	Up to 3 Profiles		Up to 3 Profiles		Up to 3 Profiles		Up to 10 profiles	
Edge Storage	micro SD/SDHC/SDXC		micro SD/SDHC/SDXC		micro SD/SDHC/SDXC		micro SD/SDHC/SDXC 1slot 256GB	
Application Programming Interface	ONVIF profile S/G/T, SUNAPI, Wisenet open platform		ONVIF profile S/G/T, SUNAPI, Wisenet open platform		ONVIF profile S/G/T, SUNAPI, Wisenet open platform		ONVIF Profile S/G/T, SUNAPI (HTTP API), Wisenet open platform	
Operating Temperature	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -20°C (-4°F)		-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -20°C (-4°F)		-30°C ~ +55°C (-22°F ~ +131°F)		-10°C ~ +55°C (+14°F ~ +131°F) / Less than 95% RH	
Certification	IP66, IK10		IP66, IK10		IP66, IK10, NEMA4X		-	
Power Consumption	PoE: Max 7.4W, typical 6W 12VDC: Max 6.4W		PoE: Max 7.4W, typical 6W 12VDC: Max 6.4W		PoE: Max 6.7W, typical 5W		Max. 14.5W, Typ. 12W	
Dimensions (WxHxD) / Weight	Ø120.3 x 91.7mm (Ø4.74" x 3.61") 510g (1.124lb)		Ø120.3 x 91.7mm (Ø4.74" x 3.61") 510g (1.124lb)		W 98.9 x H 52 x D 100mm (3.89" x 2.05" x 3.94") 295g (0.651lb)		Ø152 x 218mm (Ø5.98" x 8.58") 1.7kg (3.75 lb)	
Additional Features	Hallway View		Hallway View		M12 connector, Hallway View		Directional detection, Motion detection, Enter/Exit, Tampering, Virtual line, Audio detection	



**QNP-6320R**  
2MP 32x IR PTZ Camera



**QNP-6320H**  
2MP 32x PTZ Camera



**QNP-6250**  
2MP 25x PTZ Camera



**QNP-6250R**  
2MP 25x IR PTZ Camera

Imaging Device	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Min. Illumination	Color: 0.05Lux (F1.6, 1/30sec) BW: 0Lux (IR LED On)	Color: 0.05Lux (F1.6, 1/30sec) BW: 0.005Lux (F1.6, 1/30sec)	Color: 0.05Lux (F1.6, 1/30sec) BW: 0.005Lux (F1.6, 1/30sec)	Color: 0.05Lux (F1.6, 1/30sec) BW: 0Lux (IR LED On)
Video Output	-	-	-	-
Focal Length	4.44 ~ 142.6mm (32x) zoom	4.44 ~ 142.6mm (32x) zoom	4.44 ~ 111mm (25x) zoom	4.44 ~ 111mm (25x) zoom
Angular Field of View	H: 64.66°(Wide) ~ 2.29°(Tele) V: 38.08°(Wide) ~ 1.3°(Tele)	H: 64.66°(Wide) ~ 2.29°(Tele) V: 38.08°(Wide) ~ 1.3°(Tele)	H: 64.66°(Wide) ~ 2.99°(Tele) V: 38.08°(Wide) ~ 1.68°(Tele)	H: 64.66°(Wide) ~ 2.99°(Tele) V: 38.08°(Wide) ~ 1.68°(Tele)
Pan / Tilt / Rotate	-	-	-	-
IR Viewable Length	100m (328.08ft)	-	-	-
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	120dB	120dB	120dB	120dB
Digital Noise Reduction	SSNRV	SSNRV	SSNRV	SSNRV
Digital Image Stabilization	Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)
Analytics	Directional detection, Motion detection, Enter/Exit, Tampering, Virtual line * Audio detection (with NW I/O Box)	Directional detection, Motion detection, Enter/Exit, Tampering, Virtual line * Audio detection (with NW I/O Box)	Directional detection, Motion detection, Enter/Exit, Tampering, Virtual line, Audio detection	Directional detection, Motion detection, Enter/Exit, Tampering, Virtual line * Audio detection (with NW I/O Box)
Business Intelligence	-	-	-	-
Alarm I/O	Compatible with NW I/O Box (Optional)	Compatible with NW I/O Box (Optional)	4 / 2	Compatible with NW I/O Box (Optional)
Audio I/O	Compatible with NW I/O Box (Optional)	Compatible with NW I/O Box (Optional)	Selectable (mic in/line in) / Line out	Compatible with NW I/O Box (Optional)
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	2MP / 60fps	2MP / 60fps	2MP / 60fps	2MP / 60fps
WiseStream	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII
Streaming	Up to 10 profiles	Up to 10 profiles	Up to 10 profiles	Up to 10 profiles
Edge Storage	micro SD/SDHC/SDXC 1slot 256GB	micro SD/SDHC/SDXC 1slot 256GB	micro SD/SDHC/SDXC 1slot 256GB	micro SD/SDHC/SDXC 1slot 256GB
Application Programming Interface	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform
Operating Temperature	Normal: -35°C ~ +55°C (-31°F ~ +131°F) / * Start up should be done at above -30°C Less than 95% RH (Non-condensing)	Normal: -35°C ~ +55°C (-31°F ~ +131°F) / * Start up should be done at above -30°C Less than 95% RH (Non-condensing)	-10°C ~ +55°C (+14°F ~ +131°F) / Less than 95% RH	Normal: -35°C ~ +55°C (-31°F ~ +131°F) / * Start up should be done at above -30°C Less than 95% RH (Non-condensing)
Certification	IP66, IK10, NEMA4X	IP66, IK10, NEMA4X	-	IP66, IK10, NEMA4X
Power Consumption	Max. 25.5W, Typ. 14.7W	Max. 23W, Typ. 14W	Max. 14.5W, Typ. 12W	Max. 25.5W, Typ. 14.7W
Dimensions (WxHxD) / Weight	Ø158 x 293.3mm 3.1kg (6.83lb)	Ø204.3 x 265mm (Ø8.04" x 10.43") 2.7kg (5.95lb)	Ø152 x 218mm (Ø5.98" x 8.58") 1.7kg (3.75 lb)	Ø158 x 293.3mm 3.1kg (6.83lb)



**QNP-6250H**  
2MP 25x PTZ Camera



**QNP-6320HS**  
2MP 32x PTZ Camera



**QNF-9010**  
12MP Fisheye Camera



**QNF-8010**  
6MP Fisheye Camera

Imaging Device	1/2.8" CMOS	1/2.8" CMOS	1/2.3" CMOS	1/1.8" CMOS
Min. Illumination	Color: 0.05Lux (F1.6, 1/30sec) BW: 0.005Lux (F1.6, 1/30sec)	Color: 0.05Lux (F1.6, 1/30sec) BW: 0.005Lux (F1.6, 1/30sec)	Color: 0.39Lux (F2.2, 1/30sec)	Color: 0.2Lux (F2.5)
Video Output	-	-	CVBS 1.0Vp-p	CVBS 1.0Vp-p
Focal Length	4.44~111mm (25x) zoom	4.44~142.6mm (32x) zoom	1.08mm fixed	1.14mm fixed
Angular Field of View	H: 64.66°(Wide) ~ 2.99°(Tele) V: 38.08°(Wide) ~ 1.68°(Tele)	H: 64.66°(Wide) ~ 2.29°(Tele) V: 38.08°(Wide) ~ 1.30°(Tele)	H: 187°/V: 187°/D: 187°	H: 187°/V: 187°/D: 187°
Pan / Tilt / Rotate	-	-	-	-
IR Viewable Length	-	-	-	-
Day & Night	Auto (ICR)	Auto (ICR)	Auto (Electrical)	Auto (Electrical)
Wide Dynamic Range	120dB	120dB	120dB	120dB
Digital Noise Reduction	SSNRV	SSNRV	SSNRV	SSNRV
Digital Image Stabilization	Support (built-in gyro sensor)	Support (built-in gyro sensor)	-	-
Analytics	Directional detection, Motion detection, Enter/Exit, Tampering, Virtual line * Audio detection(with NW I/O Box)	Directional detection, Motion detection, Enter/Exit, Tampering, Virtual line * Audio detection(with NW I/O Box)	Defocus detection, Motion detection, Tampering	Intelligent analytics
Business Intelligence	-	-	People counting, Heatmap	People counting, Heatmap
Alarm I/O	Compatible with NW I/O Box (Optional)	-	-	-
Audio I/O	Compatible with NW I/O Box (Optional)	-	-	-
Video Compression	H.265 / H.264, MJPEG	H.265/H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	2MP / 60fps	2MP / 60fps	9MP / 30fps	4MP / 30fps
WiseStream	WiseStream	WiseStreamII	WiseStreamII	WiseStreamII
Streaming	Up to 10 profiles	Up to 10 profiles	Up to 3 profiles	Up to 3 profiles
Edge Storage	micro SD/SDHC/SDXC 1slot 256GB	micro SD/SDHC/SDXC 1slot 256GB	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC
Application Programming Interface	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G, SUNAPI, Wisenet open platform
Operating Temperature	Normal: -35°C ~ +55°C (-31°F ~ +131°F) / * Start up should be done at above -30°C Less than 95% RH (Non-condensing)	-35°C ~ +55°C (-31°F ~ +131°F) / * Start up should be done at above -25°C Less than 95% RH (Non-condensing)	-10°C ~ +40°C (+14°F ~ +104°F)	-10°C ~ +55°C (+14°F ~ +131°F)
Certification	IP66, IK10, NEMA4X	IP66/IP67, IK10, NEMA4X	-	IP42
Power Consumption	Max. 23W, Typ. 14W	Max. 23W, Typ. 14W	PoE: Max 7.7W, typical 6.4W	PoE: Max 6.4W, typical 4.6W
Dimensions (WxHxD) / Weight	Ø204.3 x 265mm (Ø8.04" x 10.43") 2.7kg (5.95lb)	Ø227 x 299.2mm (Ø8.94" x 11.78") 5.4 kg (11.93 lb)	Ø99 x 49 mm (Ø3.9" x 1.93") 370g (0.82lb)	Ø99 x 49 mm (Ø3.9" x 1.93") 320 g (0.705lb)
Additional Features	-	-	Panorama view, Business Intelligence	Panorama view, Business Intelligence



**TNM-3620TDY**  
Temperature Detection Thermal Camera



**TNV-C7013RC**  
3MP AI Corner Mount Camera



**TNV-7011RC**  
3MP Corner Mount Camera



**TNV-8011C**  
5MP Corner Mount Camera

Imaging Device	Thermal	Visible	1/1.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
	Uncooled micro bolometer	1/2.8" CMOS			
Min. Illumination	-	Color: 0.05 lux (F1.6, 1/30sec) B/W: 0.005 lux (F1.6, 1/30sec)	Color: 0.04 lux (F2.0, 1/30sec) B/W: 0.04 lux (F2.0, 1/30sec)	Color: 0.3 lux (F2.0, 1/30sec) B/W: 0 lux (F2.0, 1/30sec)	Color: 0.1 lux (F2.3, 1/30sec) B/W: 0.02 lux (F2.3, 1/30sec)
Video Output	CVBS: 1.0Vp-p, Micro USB Type B		-	CVBS: 1.0Vp-p	CVBS: 1.0Vp-p, Micro USB Type B
Focal Length	4.7mm fixed focal	4mm fixed focal	2.39mm fixed focal	2.8mm fixed focal	2.3mm fixed focal
Angular Field of View	H: 50°/V: 36.4°/D: 65.3°	H: 87.6°/V: 46.4°/D: 104.5°	H: 128°/V: 100°	H: 102°/V: 75°/D: 129°	H: 131°/V: 93.4°/D: 174°
Pan / Tilt / Rotate	-		-	- / 30°~ 60° / -	-
IR Viewable Length	-		Wise IR 15m (49.21ft)	10m (32.8ft)	-
Day & Night	-	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	-	extremeWDR (150dB)	extremeWDR (120dB)	120dB	120dB
Digital Noise Reduction	-	SSNRV	WiseNR II (Based on AI engine), SSNRV	SSNRV	SSNR
Digital Image Stabilization	Support (built-in gyro sensor)		Support	Support	Support
Analytics	Normal mode : Directional detection, Motion detection, Enter/Exit, Tampering, Virtual line, Audio detection, Temperature detection EBT mode : Temperature detection, Blackbody abnormality		Classified object type: Person/Face/Vehicle/License plate Support Detection Shot, Analytics events based on AI engine - Object detection, Virtual line (Crossing/Direction), Virtual area (Loitering/Intrusion/Enter/Exit) Analytics events- Defocus detection, Motion detection, Tampering, Audio detection, Sound classification, Virtual area (Appear/Disappear), Clothes color detection (Orange/Black/Red, @400lux)	Tampering, Loitering, Directional detection, Defocus detection, Fog detection, Virtual line, Enter/Exit, Appear/Disappear, Audio detection, Face detection, Motion detection, Digital auto tracking, Sound classification, Shock detection	Defocus detection, Directional detection, Motion detection, Enter/Exit, Tampering, Virtual line, Audio detection
Business Intelligence	-		-	-	-
Alarm I/O	1 / 2		2 configurable I/O ports	1 / 1	1 / 1
Audio I/O	Selectable (mic in/line in) / Line out		Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out
Video Compression	H.265 / H.264, MJPEG		H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	640 x 480 (can be scaled up to 1280 x 960) / 30fps	1920 x 1080 / 30fps	3MP / 30fps	3MP / 30fps	5MP / 30fps
WiseStream	WiseStreamII		WiseStreamIII	WiseStreamII	WiseStreamII
Streaming	Up to 6 Profiles		Up to 10 profiles	Up to 10 profiles	Up to 3 profiles
Edge Storage	micro SD/SDHC/SDXC		micro SD/SDHC/SDXC 1 slot 1TB	micro SD/SDHC/SDXC 1 slot 256GB	micro SD/SDHC/SDXC 1 slot 128GB
Application Programming Interface	ONVIF Profile S/T, SUNAPI		ONVIF Profile S/G/T/M, SUNAPI (HTTP API), Wisenet Open Platform	SUNAPI (HTTP API) Wisenet open platform	SUNAPI (HTTP API) Wisenet open platform
Operating Temperature	EBT mode : +10°C ~ +35°C (+50°F ~ +95°F) / Less than 95% RH Normal mode : -10°C ~ +55°C (+14°F ~ +131°F) / Less than 95% RH		-10°C ~ +55°C (+14°F ~ +131°F) / 0~95% RH (non-condensing) Humidity control w/ AIR vent	-10°C ~ +55°C (+14°F ~ +131°F) / Less than 90% RH	-10°C ~ +55°C (+14°F ~ +131°F) / Less than 95% RH
Certification	-		IP66, IP6K9K, IK10+	IP66, IP6K9K, IK10+	IP66, IP6K9K, IK10
Power Consumption	PoE+: Max. 17W, typical 12.5W 12VDC: Max. 14.5W, typical 11W		PoE: Max 12.95W, typical 9.7W, DC: Max. 12.7W, typical 9.0W	PoE: Max 12W, typical 10.1W, 12VDC: Max. 11W, typical 8.6W	PoE: Max 6.49W, typical 4.6W
Dimensions (WxHxD) / Weight	W 135 x H 75 x D 188.5mm (5.31" x 2.95" x 7.42") 1.71kg (3.77lb)		W 198.3 x H 104.8 x D 198.6mm (7.87" x 4.13" x 7.82") 1,935g (4.27lb)	Ø295.5 x 113.5mm (Ø11.6" x 4.47") 2.1kg (4.63lb)	W 170 x H 165 x D 78.8mm (6.69" x 6.49" x 3.1") 830g (1.83lb)
Additional Features	Bi-spectrum camera, Two temperature detection mode, Face detection, Blackbody (SPI-35B) is optional		Anti-ligature design for corrections and behavioral health facilities	-	-



TNO-P9072EPT1-Z  
8MP Explosion-proof Camera



TNO-X8072EPT1-Z  
5MP Explosion-proof Fixed Camera



TNO-X6322EPT1-Z  
2MP Explosion-proof Camera



TNO-X6072EPT1-Z  
2MP Explosion-proof PTZ Camera



TNU-6322E  
2MP Explosion-proof Camera

Imaging Device	1/2.8" CMOS	1/1.8" 5MP CMOS	1/2.8" CMOS	1/2.8" 2MP CMOS	1/2.8" CMOS
Min. Illumination	Color: 0.05Lux (1/30sec, F1.6) B/W: 0Lux (IR LED on)	Color: 0.07Lux (1/30sec, F1.2) B/W: 0.007 Lux (1/30sec, F1.2)	Color: 0.05Lux (1/30sec, F1.6) B/W: 0.005 Lux (1/30sec, F1.6)	Color: 0.01Lux (F1.2) B/W: 0.001Lux (F1.2)	Color: 0.05Lux (1/30sec, F1.6) B/W: 0.005 Lux (1/30sec, F1.6)
Video Output	-	CVBS: 1.0Vpp, Micro USB type B	-	CVBS: 1.0Vpp, Micro USB type B	-
Focal Length	4.44 ~ 142.6mm (Optical 32x)	4.1 - 9mm	4.44 ~ 142.6mm (32X) zoom	2.8 - 9mm	4.44 ~ 142.6mm (32X) zoom
Angular Field of View	H: 61.8°(Wide) ~ 2.19°(Tele) V: 36.2°(Wide) ~ 1.24°(Tele)	82° (Wide) ~ 43° (Tele)	H: 61.8°(Wide) ~ 2.19°(Tele) V: 36.2°(Wide) ~ 1.24°(Tele)	98° (Wide) ~ 39° (Tele)	H: 61.8°(Wide) ~ 2.19°(Tele) V: 36.2°(Wide) ~ 1.24°(Tele)
Pan / Tilt / Rotate	-	-	-	-	360°Endless / 180°(-90°~ 90°) / -
IR Viewable Length	-	-	-	-	-
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	120dB	120dB	120dB	150dB	120dB
Digital Noise Reduction	SSNRV	SSNRV	SSNRV	SSNRV	SSNRV
Digital Image Stabilization	Support	Off / On (Built-in Gyro sensor)	Support	Off / On (Built-in Gyro sensor)	Support
Analytics	Intelligent analytics, Audio detection	Tampering, Loitering, Directional detection, Defocus detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Face detection, Motion detection, Digital auto tracking, Sound classification	Defocus detection, Directional detection, Fog detection, Face detection, Motion detection, Appear/Disappear, Face detection, Enter/Exit, Loitering, Tampering, Virtual line	Tampering, Loitering, Directional detection, Defocus detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Face detection, Motion detection, Digital auto tracking, Sound classification	Defocus detection, Directional detection, Fog detection, Face detection, Motion detection, Appear/Disappear, Audio detection, Enter/Exit, Loitering, Tampering, Virtual line, Audio detection
Business Intelligence	-	-	-	-	-
Alarm I/O	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
Audio I/O	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	-	-	Selectable (mic in/line in) / Line out
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265/H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	2MP / 60fps	5MP / 30fps	2MP / 60fps	2MP / 60fps	2MP / 60fps
WiseStream	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII
Streaming	Up to 10 Profiles	Unicast (20 users) / Multicast	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles
Edge Storage	-	SD/SDHC/SDXC 2 slots, NAS, Local PC	-	SD/SDHC/SDXC 2 slots, NAS, Local PC	-
Application Programming Interface	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF Profile S/G SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF profile S/G, SUNAPI, Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform
Operating Temperature	-40°C ~ +60°C (-40°F ~ +140°F)	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 90% RH	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 90% RH * Start up should be done at above -30°C	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 90% RH	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 95% RH
Certification	IP67, IK10, ATEX, IECEx	cFMus C1/D1	IP67, IK10 CE2460, EX II 2 GD, Ex d IICT6 Gb IP67 Ex tb IIIC T80°C Db	cFMus C1/D1	IECEx, ATEX, KCs, KC, CE IP67, IK10
Power Consumption	24VAC: Max 45W	Max 7.5W (PoE) / 25W (Heater)	24VAC: Max 28W	Max 7.5W (PoE) / 25W (Heater)	24VAC: Max. 99W
Dimensions (WxHxD) / Weight	W 175 x H 243.5 x D 320mm (6.89" x 9.59" x 12.59") 10.5kg (23.15lb)	W 7.2" x H 5.97" x D 13.85" 6.35kg (14lb)	Ø162 x 244mm (Ø6.38" x 9.61") 7kg (15.43 lb)	W 7.2" x H 5.97" x D 13.85" 6.35kg (14lb)	W 355 x H 427 x D 235mm (13.97" x 16.81" x 9.25") 25kg (55.12lb)
Additional Features	Stainless(SUS316L) housing, Built in wiper	Powder-coated aluminum housing	-	Powder-coated aluminum housing	-





NEW

TNU-X6320A2WT1-Z  
2MP Explosion-proof PTZ Camera



NEW

TNU-X6320A1F2WT1-M  
2MP Explosion-proof PTZ Camera



TNM-P9022EPT3-Z  
2MP x 4CH Explosion-proof Panoramic  
Camera



TNP-Q6232EPT3-Z  
2MP Explosion-proof PTZ Dome Camera



TNP-X6322EPT3-Z  
2MP Explosion-proof PTZ Dome Camera

Imaging Device	1/2.8" 2.4MP CMOS	1/2.8" 2.4MP CMOS	1/2.8" CMOS x 4	1/2.8" 2.4MPCMOS	1/2.8" CMOS
Min. Illumination	Color: 0.05Lux (F1.6) B/W: 0.005Lux (F1.6)	Color: 0.05Lux (F1.6) B/W: 0.005Lux (F1.6)	Color: 0.1Lux (1/30sec, F1.6) B/W: 0.01 Lux (1/30sec, F1.6)	Color: 0.2Lux (1/30sec, F1.6) B/W: 0.001 Lux (1/30sec, F1.6)	Color: 0.05Lux (F1.6) B/W: 0.005Lux (F1.6)
Video Output			Micro USB Type B	-	-
Focal Length	4.44 ~ 142.6mm (Optical 32x)	4.44 ~ 142.6mm (Optical 32x)	2.8mm Fixed Focal x 4	4.44 ~ 142.6mm (32X) zoom	4.44 ~ 142.6mm (Optical 32x)
Angular Field of View	H:64.55° (Wide) ~ 2.29° (Tele) V: 38.08° (Wide) ~ 1.30° (Tele)	H:64.55° (Wide) ~ 2.29° (Tele) V: 38.08° (Wide) ~ 1.30° (Tele)	H: 209° / 180°, V: 83°	H: 61.8° (Wide) ~ 2.19° (Tele) V: 36.2° (Wide) ~ 1.24° (Tele)	H: 61.8° (Wide) ~ 2.19° (Tele) V: 36.2° (Wide) ~ 1.24° (Tele)
Pan / Tilt / Rotate	360° Endless / 180°	360° Endless / 180°	0° ~ 355° / 0° ~ 60°	360° Endless / 210° (-15° ~ 195°)	360° Endless / 210° (-15° ~ 195°) / -
IR Viewable Length	-	-	-	-	-
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	120dB	120dB	Extreme WDR (120dB)	120dB	150dB
Digital Noise Reduction	SSNRV	SSNRV	SSNRV	SSNRV	SSNRV
Digital Image Stabilization	Off / On (Built-in Gyro sensor)	Off / On (Built-in Gyro sensor)	-	Off / On (Built-in Gyro sensor)	Off / On (Built-in Gyro sensor)
Analytics	Tampering, Loitering, Directional/Virtual line detection, Fog detection, Enter/Exit, Appear/Disappear, Face detection, Motion detection, Shock detection	Tampering, Loitering, Directional/Virtual line detection, Fog detection, Enter/Exit, Appear/Disappear, Face detection, Motion detection, Shock detection	Defocus detection, Motion detection, Appear/Disappear, Enter/Exit, Tampering, Virtual line, Audio detection	Tampering detection, Motion detection	Tampering, Loitering, Directional detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Face detection, Motion detection
Business Intelligence	-	-	-	-	-
Alarm I/O	-	-	Selectable 2 port	1 / 1	1 / 1
Audio I/O	-	-	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	-
Video Compression	H.265 / H.264, Motion JPEG	H.265 / H.264, Motion JPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	2MP / 60fps	2MP / 60fps	2MP / 30fps	2MP / 60fps	2MP / 30fps
WiseStream	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII
Streaming	Unicast / Multicast (20 users at Unicast)	Unicast / Multicast (20 users at Unicast)	Up to 10 Profiles	Up to 10 Profiles	Multiple Streaming (Up to 10 Profiles)
Edge Storage	Micro SD/SDHC/SDXC 2 slots, Continuous Recording	Micro SD/SDHC/SDXC 2 slots, Continuous Recording	-	-	Continuous Recording
Application Programming Interface	ONVIF Profile S/G, SUNAPI 2.0 (HTTP API), Wisenet open platform	ONVIF Profile S/G, SUNAPI 2.0 (HTTP API), Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF profile S/G, SUNAPI 2.0 (HTTP API), Wisenet open platform
Operating Temperature	-40°C ~ +60°C (-40°F ~ +140°F)	-40°C ~ +60°C (-40°F ~ +140°F)	-20°C ~ +55°C (-4°F ~ +131°F) / Less than 90% RH	-20°C ~ +55°C (-4°F ~ +131°F) / Less than 90% RH	-20°C ~ +55°C (-4°F ~ +131°F) / Less than 90% RH
Certification	cLCus C1/D1/INMETRO / cLC CSA	cLCus C1/D1/INMETRO / cLC CSA	I/II/III, Division 1, IECEx-ATEX Zone 1/21	cFMus, II 2 G Ex db IIB+H2 II 2 D Ex tb IIC IECEx ATEX	cFMus, II 2 G Ex db IIB+H2 II 2 D Ex tb IIC IECEx ATEX
Power Consumption	Up to Max 80W	Up to Max 80W	PoE+: Max 18W, Typical 10.4W	24VAC: Max. 99W	Max 24W
Dimensions (WxHxD) / Weight	W457 x H401mm (17.98" x 15.78") Up to 33Kg (73lb)	W457 x H401mm (17.98" x 15.78") Up to 33Kg (73lb)	Ø218.44x 347.269mm (Ø8.59" x 13.672") 12.247kg (27 lb)	Ø8.6" x 15.82" 12.7kg (28lb)	Ø8.6" x 15.82" 12.7kg (28lb)
Additional Features	Standard stainless steel 316L mirror finish, Integral Wiper	Standard stainless steel 316L mirror finish, Integral Wiper	Aluminum Casing, Digital PTZ Support, Marine-Ready Aluminum	Anodized aluminum housing	Anodized aluminum housing



**TNU-6321**  
2MP Positioning PTZ Camera



**TNU-4041T / 4051T**  
VGA Thermal Positioning Camera



**TNO-4051T**  
VGA Thermal Bullet Camera



**TNO-4050T**  
VGA Thermal Bullet Camera

Imaging Device	1/2.8" CMOS	Uncooled Micro bolometer	Uncooled Micro bolometer	Uncooled Micro bolometer
Min. Illumination	Color: 0.05Lux (F1.6, 1/30sec) B/W: 0.005 Lux (F1.6, 1/30sec)	-	-	-
Video Output	CVBS: 1.0Vp-p	CVBS: 1.0Vp-p	CVBS: 1.0Vp-p	CVBS: 1.0Vp-p, Micro USB Type B
Focal Length	4.44~142.6mm (32x) zoom	19mm / 35mm fixed	35mm fixed	35mm fixed
Angular Field of View	H: 61.8°(Wide) ~ 2.19°(Tele) V: 36.2°(Wide) ~ 1.24°(Tele)	H: 32° / V: 24.3° / D: 39.2° H: 17.2° / V: 13° / D: 22°	H: 17.2° / V: 13° / D: 22°	H: 17.2° / V: 13° / D: 22°
Pan / Tilt / Rotate	360°Endless / (130°) -90°~ 40° / -	360°Endless / -90°~ 40° / -	-	-
IR Viewable Length	200m with SPI-50 (Optional)	-	-	-
Day & Night	Auto (ICR)	-	-	-
Wide Dynamic Range	120dB	-	-	-
Digital Noise Reduction	SSNR	-	-	-
Digital Image Stabilization	Support	Support (Built-in Gyro sensor)	Support (Built-in Gyro sensor)	Support (Built-in Gyro sensor)
Analytics	Defocus detection, Directional detection, Fog detection, Face detection, Motion detection, Appear/Disappear, Enter/Exit, Loitering, Tampering, Virtual line, Audio detection	Intelligent analytics Audio detection Sound classification Shock detection Temperature change detection	Intelligent analytics Audio detection Sound classification Shock detection Temperature change detection	Intelligent analytics Audio detection Sound classification Shock detection Temperature change detection
Business Intelligence	-	-	-	-
Alarm I/O	1 / 1	1 / 1	1 / 2	1 / 2
Audio I/O	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	2MP / 60fps	640 x 480 / 30fps	640 x 480 / 30fps	640 x 480 / 30fps
WiseStream	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII
Streaming	Up to 10 profiles	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles
Edge Storage	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC
Application Programming Interface	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF profile S/G, SUNAPI, Wisenet open platform	ONVIF profile S/G, SUNAPI, Wisenet open platform	ONVIF profile S/G, SUNAPI, Wisenet open platform
Operating Temperature	-40°C ~ +55°C (-40°F ~ +131°F) / Less than 90% RH	-40°C ~ +60°C (-40°F ~ +140°F)	-40°C ~ +60°C (-40°F ~ +140°F)	-40°C ~ +60°C (-40°F ~ +140°F)
Certification	IP66, Safety (UL, KC-SDOC), EMC (FCC, CE, VCCI, RCM, KC)	IP66, NEMA 4X, IK10	IP66, NEMA 4X	IP66, NEMA 4X
Power Consumption	Max 100W (Heater On), typical 25W (Heater Off)	24VAC : Max 84W - Heater On Max 62W - Heater Off	PoE : Max 10W 12VDC : Max 9W 24VAC : Max 10.5W	PoE : Max 10W 12VDC : Max 9W 24VAC : Max 10.5W
Dimensions (WxHxD) / Weight	W 219 x H 528.2 x D 460mm (8.62" x 20.79" x 18.11") 14kg (30.86lb)	W 219 x H 528 x D 335mm (8.62" x 20.79" x 13.19") 11.7kg (25.79lb)	Ø101.97 x 309mm (Ø4.01" x 12.17") 2.5kg (5.51 lb)	Ø147.51 x 401.8mm (Ø5.81" x 15.82") 3.17kg (7.0 lb)
Additional Features	Tampering, Audio detection	Various color palettes	Various color palettes PT type	Various color palettes



TNO-4041T  
VGA Thermal Bullet Camera



TNO-4041TR  
VGA Radiometric Thermal Bullet Camera



TNO-4040T  
VGA Thermal Bullet Camera



TNO-4040TR  
VGA Radiometric Thermal Bullet Camera

Imaging Device	Uncooled Micro bolometer	Uncooled Micro bolometer	Uncooled Micro bolometer	Uncooled Micro bolometer
Min. Illumination	-	-	-	-
Video Output	CVBS: 1.0Vp-p	CVBS: 1.0Vp-p	CVBS: 1.0Vp-p, Micro USB Type B	CVBS: 1.0Vp-p, Micro USB Type B
Focal Length	19mm fixed	19mm fixed	19mm fixed	19mm fixed
Angular Field of View	H:32° / V:24.3° / D:39.2°	H:32° / V:24.3° / D:39.2°	H:32° / V:24.3° / D:39.2°	H:32° / V:24.3° / D:39.2°
Pan / Tilt / Rotate	-	-	-	-
IR Viewable Length	-	-	-	-
Day & Night	-	-	-	-
Wide Dynamic Range	-	-	-	-
Digital Noise Reduction	-	-	-	-
Digital Image Stabilization	Support (Built-in Gyro sensor)	Support (Built-in Gyro sensor)	Support (Built-in Gyro sensor)	Support (Built-in Gyro sensor)
Analytics	Intelligent analytics Audio detection Sound classification Shock detection Temperature change detection	Intelligent analytics Audio detection Sound classification Shock detection Temperature detection	Intelligent analytics Audio detection Sound classification Shock detection Temperature detection	Intelligent analytics Audio detection Sound classification Shock detection Temperature detection
Business Intelligence	-	-	-	-
Alarm I/O	1/2	1/2	1/2	1/2
Audio I/O	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	640 x 480 / 30fps	640 x 480 / 30fps	640 x 480 / 30fps	640 x 480 / 30fps
WiseStream	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII
Streaming	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles
Edge Storage	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC
Application Programming Interface	ONVIF profile S/G, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform
Operating Temperature	-40°C ~ +60°C (-40°F ~ +140°F)	-40°C ~ +60°C (-40°F ~ +140°F)	-40°C ~ +60°C (-40°F ~ +140°F)	-40°C ~ +60°C (-40°F ~ +140°F)
Certification	IP66, NEMA 4X, IK10	IP66, NEMA 4X, IK10	IP66, NEMA 4X, IK10	IP66, NEMA 4X, IK10
Power Consumption	PoE: Max 10W 12VDC: Max 9W 24VAC: Max 10.5W	PoE: Max 10W 12VDC: Max 9W 24VAC: Max 10.5W	PoE: Max 10W 12VDC: Max 9W 24VAC: Max 10.5W	PoE: Max 10W 12VDC: Max 9W 24VAC: Max 10.5W
Dimensions (WxHxD) /Weight	Ø101.97 x 309mm (Ø4.01" x 12.17") 2.5kg (5.51 lb)	Ø101.97 x 309mm (Ø4" x 12.17") 2.45kg (5.41lb)	Ø147.51 x 401.8mm (Ø5.81" x 15.82") 3.17kg (7.0lb)	Ø101.97 x 401.8mm (Ø4.01" x 15.82") 3.12kg (6.89lb)
Additional Features	Various color palettes PT type	Various color palettes Spot temperature reading PT type	Various color palettes	Various color palettes Spot temperature reading



**TNO-4030T**  
VGA Thermal Bullet Camera



**TNO-4030TR**  
VGA Radiometric Thermal Bullet Camera



**TNO-3010T**  
QVGA Thermal Bullet Camera



**TNO-3020T**  
QVGA Thermal Bullet Camera

Imaging Device	Uncooled Micro bolometer	Uncooled Micro bolometer	Uncooled Micro bolometer	Uncooled Micro bolometer
Min. Illumination	-	-	-	-
Video Output	CVBS : 1.0Vp-p, Micro USB Type B	CVBS : 1.0Vp-p, Micro USB Type B	CVBS : 1.0Vp-p, Micro USB Type B	CVBS : 1.0Vp-p, Micro USB Type B
Focal Length	13mm fixed	13mm fixed	2.7mm fixed focal	4.7mm fixed focal
Angular Field of View	H: 48.6° / V: 36.4° / D: 61.6°	H: 48.6° / V: 36.4° / D: 61.6°	H: 92° / V: 65.5° / D: 125.7°	H: 50° / V: 36.4° / D: 65.3°
Pan / Tilt / Rotate	-	-	-	-
IR Viewable Length	-	-	-	-
Day & Night	-	-	-	-
Wide Dynamic Range	-	-	-	-
Digital Noise Reduction	-	-	-	-
Digital Image Stabilization	Support (Built-in Gyro sensor)	Support (Built-in Gyro sensor)	Support (Built-in Gyro sensor)	Support (Built-in Gyro sensor)
Analytics	Intelligent analytics Audio detection Sound classification Shock detection Temperature detection	Intelligent analytics Audio detection Sound classification Shock detection Temperature detection	Intelligent analytics Audio detection Sound classification Shock detection Temperature detection	Intelligent analytics Audio detection Sound classification Shock detection Temperature detection
Business Intelligence	-	-	-	-
Alarm I/O	1 / 2	1 / 2	1 / 2	1 / 2
Audio I/O	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	640 x 480 / 30fps	640 x 480 / 30fps	320 x 240 / 30fps	320 x 240 / 30fps
WiseStream	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII
Streaming	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles
Edge Storage	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC
Application Programming Interface	ONVIF profile S/G, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform
Operating Temperature	-40°C ~ +60°C (-40°F ~ +140°F)	-40°C ~ +60°C (-40°F ~ +140°F)	-40°C ~ +60°C (-40°F ~ +140°F)	-40°C ~ +60°C (-40°F ~ +140°F)
Certification	IP66, NEMA 4X, IK10	IP66, NEMA 4X, IK10	IP66, NEMA 4X, IK10	IP66, NEMA 4X, IK10
Power Consumption	PoE : Max 10W 12VDC : Max 9W 24VAC : Max 10.5W	PoE : Max 10W 12VDC : Max 9W 24VAC : Max 10.5W	PoE : Max. 8.7W, typical 7.5W 12VDC : Max. 7.8W, typical 6.7W 24VAC : Max. 9.2W, typical 8W	PoE : Max. 8.7W, typical 7.5W 12VDC : Max. 7.8W, typical 6.7W 24VAC : Max. 9.2W, typical 8W
Dimensions (WxHxD) / Weight	Ø147.51 x 401.8mm (Ø5.81" x 15.82") 3.17kg (7.0lb)	Ø101.97 x 401.8mm (Ø4.01" x 15.82") 3.12kg (6.89lb)	Ø147.51 x 375.3mm (Ø5.81" x 14.78") 2.51kg (5.538lb)	Ø147.51 x 375.3mm (Ø5.81" x 14.78") 2.51kg (5.538lb)
Additional Features	Various color palettes	Various color palettes Spot temperature reading	Various color palettes	Various color palettes



TNO-3030T  
QVGA Thermal Bullet Camera



TNO-3040T  
QVGA Thermal Bullet Camera



TNO-3050T  
QVGA Thermal Bullet Camera



TID-600R  
2MP Network Intercom Station

Imaging Device	Uncooled Micro bolometer	Uncooled Micro bolometer	Uncooled Micro bolometer	1/2.8" CMOS
Min. Illumination	-	-	-	Color: 0.018lux (F1.6, 1/30sec) BW: 0 Lux (IR LED On)
Video Output	CVBS : 1.0Vp-p, Micro USB Type B	CVBS : 1.0Vp-p, Micro USB Type B	CVBS : 1.0Vp-p, Micro USB Type B	CVBS: 1.0Vp-p
Focal Length	13.7mm fixed focal	19mm fixed focal	35mm fixed focal	1.6mm fixed focal
Angular Field of View	H:16°/V:12°/D:20°	H: 11.5°/V: 8.7°/ D: 14.4°	H: 6.3°/ V: 4.7°/ D: 7.8°	H: 180°/V: 114°/ D: 180°
Pan / Tilt / Rotate	-	-	-	-
IR Viewable Length	-	-	-	5m
Day & Night	-	-	-	Auto (ICR)
Wide Dynamic Range	-	-	-	WDR (150dB)
Digital Noise Reduction	-	-	-	SSNRV
Digital Image Stabilization	Support (Built-in Gyro sensor)	Support (Built-in Gyro sensor)	Support (Built-in Gyro sensor)	Support
Analytics	Intelligent analytics Audio detection Sound classification Shock detection Temperature detection	Intelligent analytics Audio detection Sound classification Shock detection Temperature detection	Intelligent analytics Audio detection Sound classification Shock detection Temperature detection	Directional detection, Motion detection, Appear/Disappear, Enter/Exit, Loitering, Tampering, Virtual line, Audio detection, Shock detection, Sound classification
Business Intelligence	-	-	-	-
Alarm I/O	1/2	1/2	1/2	Input 2ea / Output 1ea, Relay out 1ea (12VDC Max. 550mA with 2A adapter) Tampering switch, Touchless call
Audio I/O	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	Built-in mic / Built-in speaker
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	320 x 240 / 30fps	320 x 240 / 30fps	320 x 240 / 30fps	2MP / 60fps
WiseStream	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII
Streaming	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles
Edge Storage	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC	micro SD/SDHC/SDXC 1slot 256GB
Application Programming Interface	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF Profile S SUNAPI (HTTP API) Wisenet open platform
Operating Temperature	-40°C ~ +60°C (-40°F ~ +140°F)	-40°C ~ +60°C (-40°F ~ +140°F)	-40°C ~ +60°C (-40°F ~ +140°F)	-30°C ~ +55°C (-22°F ~ +131°F) Less than 95% RH
Certification	IP66, NEMA 4X, IK10	IP66, NEMA 4X, IK10	IP66, NEMA 4X	IP65, IK08, NEMA4X, Safety (UL), EMC (FCC, CE)
Power Consumption	PoE: Max. 8.7W, typical 7.5W 12VDC: Max. 7.8W, typical 6.7W 24VAC: Max. 9.2W, typical 8W	PoE: Max. 8.7W, typical 7.5W 12VDC: Max. 7.8W, typical 6.7W 24VAC: Max. 9.2W, typical 8W	PoE: Max. 8.7W, typical 7.5W 12VDC: Max. 7.8W, typical 6.7W 24VAC: Max. 9.2W, typical 8W	PoE: Max 12.95W, typical 9.1W 12VDC: Max 17.6W, typical 7W * 12VDC power consumption includes 12VDC/550mA relay out
Dimensions (WxHxD) / Weight	Ø147.51 x 375.3mm (Ø5.81" x 14.78") 2.51kg (5.538lb)	Ø147.51 x 375.3mm (Ø5.81" x 14.78") 2.51kg (5.538lb)	Ø147.51 x 401.3mm (Ø5.81" x 15.79") 2.74kg (6.05lb)	W 49 x H 165 x D 48mm (1.93" x 6.5" x 1.89") 490g (1.08lb)
Additional Features	Various color palettes	Various color palettes	Various color palettes	SIP, Directional detection, Motion detection, Appear/Disappear, Enter/Exit, Loitering, Tampering, Virtual line, Audio detection, Shock detection, Sound classification



LNO-6012R  
2MP IR Bullet Camera



LNO-6022R  
2MP IR Bullet Camera



LNO-6072R  
2MP IR Bullet Camera



LND-6012R  
2MP IR Dome Camera



LND-6022R  
2MP IR Dome Camera

Imaging Device	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Min. Illumination	Color: 0.03Lux (F2.0, 1/30sec) BW: 0Lux (IR LED on)	Color: 0.03Lux (F2.0, 1/30sec) BW: 0Lux (IR LED on)	Color: 0.03Lux (F1.6, 1/30sec) BW: 0Lux (IR LED on)	Color: 0.03Lux (F2.0, 1/30sec) BW: 0Lux (IR LED on)	Color: 0.03Lux (F1.6, 1/30sec) BW: 0Lux (IR LED on)
Video Output	-	-	-	-	-
Focal Length	2.8mm fixed focal	4.0mm fixed focal	3.2~10mm (3.1x) manual varifocal	2.8mm fixed focal	4.0mm fixed focal
Angular Field of View	H: 113.7°/V: 61.5°/D: 134.4°	H: 84.3°/V: 45.6°/D: 98.3°	H: 109°(Wide) ~ 33.2°(Tele) V: 57.4°(Wide) ~ 18.7°(Tele) D: 132°(Wide) ~ 38°(Tele)	H: 113.7°/V: 61.5°/D: 134.4°	H: 84.3°/V: 45.6°/D: 98.3°
Pan / Tilt / Rotate	-	-	-	0°- 350°/0°- 67°/0°-355°	0°- 350°/0°- 67°/0°-355°
IR Viewable Length	30m (98.43ft)	30m (98.43ft)	30m (98.43ft)	20m (65.62ft)	20m (65.62ft)
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	120dB	120dB	120dB	120dB	120dB
Digital Noise Reduction	SSNR	SSNR	SSNR	SSNR	SSNR
Digital Image Stabilization	-	-	-	-	-
Analytics	Motion detection, Tampering	Motion detection, Tampering	Motion detection, Tampering	Motion detection, Tampering	Motion detection, Tampering
Business Intelligence	-	-	-	-	-
Alarm I/O	-	-	-	-	-
Audio I/O	-	-	-	-	-
Video Compression	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
Resolution / Max. Frame Rate	2MP / 30fps	2MP / 30fps	2MP / 30fps	2MP / 30fps	2MP / 30fps
WiseStream	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII
Streaming	Up to 3 profiles	Up to 3 profiles	Up to 3 profiles	Up to 3 profiles	Up to 3 profiles
Edge Storage	micro SD/SDHC 1slot 32GB	micro SD/SDHC 1slot 32GB	micro SD/SDHC 1slot 32GB	micro SD/SDHC 1slot 32GB	micro SD/SDHC 1slot 32GB
Application Programming Interface	ONVIF Profile S/G/T SUNAPI (HTTP API)	ONVIF Profile S/G/T SUNAPI (HTTP API)	ONVIF Profile S/G/T SUNAPI (HTTP API)	ONVIF Profile S/G/T SUNAPI (HTTP API)	ONVIF Profile S/G/T SUNAPI (HTTP API)
Operating Temperature	-30°C ~ +55°C (-22°F ~ +131°F) / Less than 90% RH * Start up should be done at above -20°C (-4°F)	-30°C ~ +55°C (-22°F ~ +131°F) / Less than 90% RH * Start up should be done at above -20°C (-4°F)	-30°C ~ +55°C (-22°F ~ +131°F) / Less than 90% RH * Start up should be done at above -20°C (-4°F)	-10°C ~ +55°C (+14°F ~ +131°F) / Less than 90% RH	-10°C ~ +55°C (+14°F ~ +131°F) / Less than 90% RH
Certification	IP66	IP66	IP66	-	-
Power Consumption	Max 6.4W, Typical 5W	Max 6.4W, Typical 5W	Max 6.4W, Typical 5W	Max 6.4W, Typical 5W	Max 6.4W, Typical 5W
Dimensions (WxHxD) / Weight	Ø78 x 262mm (Ø3.07" x 10.31") 390g (0.86lb)	Ø78 x 262mm (Ø3.07" x 10.31") 390g (0.86lb)	Ø78 x 262mm (Ø3.07" x 10.31") 420g (0.93lb)	Ø110 x 86mm (Ø4.33" x 3.39") 270g (0.59lb)	Ø110 x 86mm (Ø4.33" x 3.39") 270g (0.59lb)



LND-6072R  
2MP IR Dome Camera



LNV-6012R  
2MP IR Vandal Dome Camera



LNV-6022R  
2MP IR Vandal Dome Camera



LNV-6072R  
2MP IR Vandal Dome Camera

Imaging Device	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Min. Illumination	Color: 0.03Lux (F1.6, 1/30sec) BW: 0Lux (IR LED on)	Color: 0.03Lux (F2.0, 1/30sec) BW: 0Lux (IR LED on)	Color: 0.03Lux (F2.0, 1/30sec) BW: 0Lux (IR LED on)	Color: 0.03Lux (F1.6, 1/30sec) BW: 0Lux (IR LED on)
Video Output	-	-	-	-
Focal Length	3.2~10mm (3.1x) manual varifocal	2.8mm fixed focal	4.0mm fixed focal	3.2~10mm (3.1x) manual varifocal
Angular Field of View	H: 109°(Wide) ~ 33.2°(Tele) V: 57.4°(Wide) ~ 18.7°(Tele) D: 132°(Wide) ~ 38°(Tele)	H: 113.7°/V: 61.5°/D: 134.4°	H: 84.3°/V: 45.6°/D: 98.3°	H: 109°(Wide) ~ 33.2°(Tele) V: 57.4°(Wide) ~ 18.7°(Tele) D: 132°(Wide) ~ 38°(Tele)
Pan / Tilt / Rotate	0°~ 350°/0°~ 67°/0°~ 355°	0°~ 350°/0°~ 67°/0°~ 355°	0°~ 350°/0°~ 67°/0°~ 355°	0°~ 350°/0°~ 67°/0°~ 355°
IR Viewable Length	20m (65.62ft)	30m (98.43ft)	30m (98.43ft)	30m (98.43ft)
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	120dB	120dB	120dB	120dB
Digital Noise Reduction	SSNR	SSNR	SSNR	SSNR
Digital Image Stabilization	-	-	-	-
Analytics	Motion detection, Tampering	Motion detection, Tampering	Motion detection, Tampering	Motion detection, Tampering
Business Intelligence	-	-	-	-
Alarm I/O	-	-	-	-
Audio I/O	-	-	-	-
Video Compression	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
Resolution / Max. Frame Rate	2MP / 30fps	2MP / 30fps	2MP / 30fps	2MP / 30fps
WiseStream	WiseStreamII	WiseStreamII	WiseStreamII	WiseStream
Streaming	Up to 3 profiles	Up to 3 profiles	Up to 3 profiles	Up to 3 profiles
Edge Storage	micro SD/SDHC 1slot 32GB	micro SD/SDHC 1slot 32GB	micro SD/SDHC 1slot 32GB	micro SD/SDHC 1slot 32GB
Application Programming Interface	ONVIF Profile S/G/T SUNAPI (HTTP API)	ONVIF Profile S/G/T SUNAPI (HTTP API)	ONVIF Profile S/G/T SUNAPI (HTTP API)	ONVIF Profile S/G/T SUNAPI (HTTP API)
Operating Temperature	-10°C ~ +55°C (+14°F ~ +131°F) / Less than 90% RH	-30°C ~ +55°C (-22°F ~ +131°F) / Less than 90% RH * Start up should be done at above -20°C (-4°F)	-30°C ~ +55°C (-22°F ~ +131°F) / Less than 90% RH * Start up should be done at above -20°C (-4°F)	-30°C ~ +55°C (-22°F ~ +131°F) / Less than 90% RH * Start up should be done at above -20°C (-4°F)
Certification	-	IP66, IK10	IP66, IK10	IP66, IK10
Power Consumption	Max 6.4W, Typical 5W	Max 6.4W, Typical 5W	Max 6.4W, Typical 5W	Max 6.4W, Typical 5W
Dimensions (WxHxD) / Weight	Ø119.8 x 98.8mm (Ø4.72" x 3.89") 315g (0.69lb)	Ø120.3 x 91.7mm (Ø4.74" x 3.61") 410g (0.9lb)	Ø120.3 x 91.7mm (Ø4.74" x 3.61") 410g (0.9lb)	Ø137.8x106.1mm (Ø5.43" x 4.18") 525g (1.16lb)



**ANO-L7012R**  
4MP IR Bullet Camera



**ANO-L7022R**  
4MP IR Bullet Camera



**ANO-L7082R**  
4MP IR Bullet Camera



**ANV-L7012R**  
4MP IR Vandal Dome Camera



**ANV-L7082R**  
4MP IR Vandal Dome Camera



**ANE-L7012R**  
4MP IR Flateye Camera

Imaging Device	1/3" CMOS	1/3" CMOS	1/2.8" CMOS	1/3" CMOS	1/2.8" CMOS	1/2.8" CMOS
Min. Illumination	Color: 0.13Lux (F2.0, 1/30sec) BW: 0Lux (IR LED on)	Color: 0.13Lux (F2.0, 1/30sec) BW: 0Lux (IR LED on)	Color: 0.1Lux (F1.6, 1/30sec) BW: 0Lux (IR LED on)	Color: 0.13Lux (F2.0, 1/30sec) BW: 0Lux (IR LED on)	Color: 0.01Lux (F1.6, 1/30sec) BW: 0Lux (IR LED on)	Color: 0.13Lux (F1.6, 1/30sec) BW: 0Lux (IR LED on)
Video Output	-	-	-	-	-	-
Focal Length	3mm fixed focal	4mm fixed focal	3.3~10.3mm (3.1x) motorized varifocal	3mm fixed focal	3.3~10.3mm (3.1x) motorized varifocal	3mm fixed focal
Angular Field of View	H: 98.3°/V: 54.2°/D: 114.6°	H: 78.3°/V: 42.9°/D: 91.2°	H: 94.8°(Wide) ~ 28.1°(Tele) V: 50.2°(Wide) ~ 15.8°(Tele) D: 112.9°(Wide) ~ 32.2°(Tele)	H: 98.3°/V: 54.2°/D: 114.6°	H: 94.8°(Wide) ~ 28.1°(Tele) V: 50.2°(Wide) ~ 15.8°(Tele) D: 112.9°(Wide) ~ 32.2°(Tele)	H: 98.3°/V: 54.2°/D: 114.6°
Pan / Tilt / Rotate	-	-	-	0°~350°/0°~67°/0°~355°	0°~350°/0°~67°/0°~355°	0°~350°/0°~67°/0°~355°
IR Viewable Length	20m (65.62ft)	25m (82.02ft)	30m (98.43ft)	20m (65.62ft)	30m (98.43ft)	20m (65.62ft)
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	120dB	120dB	120dB	120dB	120dB	120dB
Digital Noise Reduction	SSNR	SSNR	SSNR	SSNR	SSNR	SSNR
Digital Image Stabilization	-	-	-	-	-	-
Analytics	Defocus detection, Motion detection, Tampering, Virtual area (Intrusion/Enter/Exit), Virtual line (Crossing/Direction)	Defocus detection, Motion detection, Tampering, Virtual area (Intrusion/Enter/Exit), Virtual line (Crossing/Direction)	Defocus detection, Motion detection, Tampering, Virtual area (Intrusion/Enter/Exit), Virtual line (Crossing/Direction)	Defocus detection, Motion detection, Tampering, Virtual area (Intrusion/Enter/Exit), Virtual line (Crossing/Direction)	Defocus detection, Motion detection, Tampering, Virtual area (Intrusion/Enter/Exit), Virtual line (Crossing/Direction)	Defocus detection, Motion detection, Tampering, Virtual area (Intrusion/Enter/Exit), Virtual line (Crossing/Direction)
Business Intelligence	-	-	-	-	-	-
Alarm I/O	-	-	-	-	-	-
Audio I/O	-	-	-	-	-	-
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	4MP / 30fps	4MP / 30fps	4MP / 30fps	4MP / 30fps	4MP / 30fps	4MP / 30fps
WiseStream	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII
Streaming	Up to 3 profiles	Up to 3 profiles	Up to 3 profiles	Up to 3 profiles	Up to 3 profiles	Up to 3 profiles
Edge Storage	micro SD/SDHC 1slot 128GB	micro SD/SDHC 1slot 32GB	micro SD/SDHC 1slot 128GB	micro SD/SDHC 1slot 32GB	micro SD/SDHC 1slot 32GB	micro SD/SDHC 1slot 128GB
Application Programming Interface	ONVIF Profile S/G/T SUNAPI (HTTP API)	ONVIF Profile S/G/T SUNAPI (HTTP API)	ONVIF Profile S/G/T SUNAPI (HTTP API)	ONVIF Profile S/G/T SUNAPI (HTTP API)	ONVIF Profile S/G/T SUNAPI (HTTP API)	ONVIF Profile S/G/T SUNAPI (HTTP API)
Operating Temperature	-30°C ~ +55°C (-22°F ~ +131°F) / Less than 95% RH	-30°C ~ +55°C (-22°F ~ +131°F) / Less than 95% RH	-30°C ~ +55°C (-22°F ~ +131°F) / Less than 95% RH * Start up should be done at above -20°C (-4°F)	-30°C ~ +55°C (-22°F ~ +131°F) / Less than 95% RH	-30°C ~ +55°C (-22°F ~ +131°F) / Less than 95% RH * Start up should be done at above -20°C (-4°F)	-30°C ~ +55°C (-22°F ~ +131°F) / Less than 95% RH * Start up should be done at above -20°C (-4°F)
Certification	IP66	IP66	IP66	IP66, IK10	IP66, IK10	IP66, IK10
Power Consumption	Max 7.5W, Typical 5.7W	Max 7.5W, Typical 5.7W	Max 8W, Typical 6W	Max 7.5W, Typical 5.7W	Max 8W, Typical 5W	Max 7.5W, Typical 5.7W
Dimensions (WxHxD) / Weight	Ø78 x 262mm (Ø3.07" x 10.31") 390g (0.86lb)	Ø78 x 262mm (Ø3.07" x 10.31") 390g (0.86lb)	Ø78 x 262mm (Ø3.07" x 10.31") 390g (0.86lb)	Ø120.3 x 91.7mm (Ø4.74" x 3.61") 410g	Ø137.8 x 107.1mm (Ø5.43" x 4.22") 550g	Ø125.0 x 87.4mm (Ø4.92" x 3.44") 630g





**ANO-L6012R**  
2MP IR Bullet Camera



**ANO-L6022R**  
2MP IR Bullet Camera



**ANO-L6082R**  
2MP IR Bullet Camera



**ANV-L6012R**  
2MP IR Vandal Dome Camera



**ANV-L6023R**  
2MP IR Vandal Dome Camera

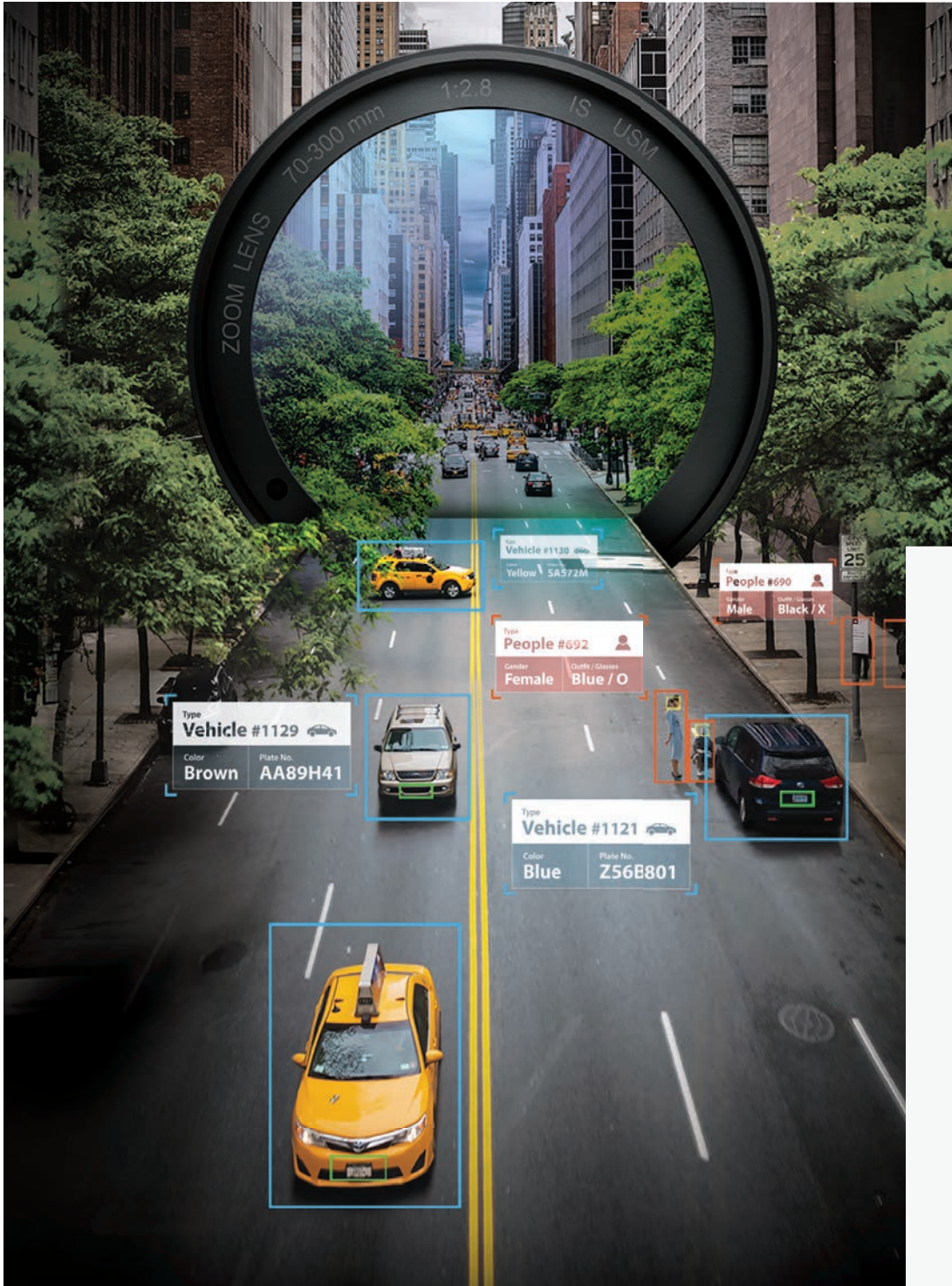


**ANV-L6082R**  
2MP IR Vandal Dome Camera



**ANE-L6012R**  
2MP IR Flateye Camera

	ANO-L6012R 2MP IR Bullet Camera	ANO-L6022R 2MP IR Bullet Camera	ANO-L6082R 2MP IR Bullet Camera	ANV-L6012R 2MP IR Vandal Dome Camera	ANV-L6023R 2MP IR Vandal Dome Camera	ANV-L6082R 2MP IR Vandal Dome Camera	ANE-L6012R 2MP IR Flateye Camera
Imaging Device	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Min. Illumination	Color: 0.03Lux (F1.6, 1/30sec) BW: 0Lux (IR LED on)	Color: 0.03Lux (F2.0, 1/30sec) BW: 0Lux (IR LED on)	Color: 0.03Lux (F2.0, 1/30sec) BW: 0Lux (IR LED on)	Color: 0.03Lux (F1.6, 1/30sec) BW: 0Lux (IR LED on)	Color: 0.03Lux (F1.6, 1/30sec) BW: 0Lux (IR LED on)	Color: 0.03Lux (F1.6, 1/30sec) BW: 0Lux (IR LED on)	Color: 0.03Lux (F1.6, 1/30sec) BW: 0Lux (IR LED on)
Video Output	-	-	-	-	-	-	-
Focal Length	2.8mm fixed focal	4mm fixed focal	3.3~10.3mm (3.1x) motorized  varifocal	2.8mm fixed focal	3.6mm fixed focal	3.3~10.3mm (3.1x) motorized  varifocal	3mm fixed focal
Angular Field of View	H: 113.7°/V: 61.5°/D: 134.4°	H: 84.3°/V: 45.6°/D: 98.3°	H: 105.2° (Wide) ~ 30.6° (Tele) V: 54.8° (Wide) ~ 17.2° (Tele) D: 126.9° (Wide) ~ 35.1° (Tele)	H: 113.7°/V: 61.5°/D: 134.4°	H: 94.8°/V: 49.3°/D: 114.3°	H: 105.2° (Wide) ~ 30.6° (Tele) V: 54.8° (Wide) ~ 17.2° (Tele) D: 126.9° (Wide) ~ 35.1° (Tele)	H: 107.7°/V: 59.0°/D: 126.7°
Pan / Tilt / Rotate	-	-	-	0°~350°/0°~67°/0°~355°	±5°/0°~67°/±90°	0°~350°/0°~67°/0°~355°	0°~350°/0°~67°/0°~355°
IR Viewable Length	30m (98.43ft)	30m (98.43ft)	30m (98.43ft)	30m (98.43ft)	15m (49.21ft)	30m (98.43ft)	20m (65.62ft)
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	120dB	120dB	120dB	120dB	120dB	120dB	120dB
Digital Noise Reduction	SSNR	SSNR	SSNR	SSNR	SSNR	SSNR	SSNR
Digital Image Stabilization	-	-	-	-	-	-	-
Analytics	Defocus detection, Motion detection, Tampering, Virtual area (Intrusion/Enter/Exit), Virtual line (Crossing/Direction)	Defocus detection, Motion detection, Tampering, Virtual area (Intrusion/Enter/Exit), Virtual line (Crossing/Direction)	Defocus detection, Motion detection, Tampering, Virtual area (Intrusion/Enter/Exit), Virtual line (Crossing/Direction)	Defocus detection, Motion detection, Tampering, Virtual area (Intrusion/Enter/Exit), Virtual line (Crossing/Direction)	Defocus detection, Motion detection, Tampering, Virtual area (Intrusion/Enter/Exit), Virtual line (Crossing/Direction)	Motion detection, Tampering, Virtual area (Intrusion/Enter/Exit), Virtual line (Crossing/Direction)	Motion detection, Tampering, Virtual area (Intrusion/Enter/Exit), Virtual line (Crossing/Direction)
Business Intelligence	-	-	-	-	-	-	-
Alarm I/O	-	-	-	-	-	-	-
Audio I/O	-	-	-	-	-	-	-
Video Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Resolution / Max. Frame Rate	2MP / 30fps	2MP / 30fps	2MP / 30fps	2MP / 30fps	2MP / 30fps	2MP / 30fps	2MP / 30fps
WiseStream	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII	WiseStreamII
Streaming	Up to 3 profiles	Up to 3 profiles	Up to 3 profiles	Up to 3 profiles	Up to 3 profiles	Up to 3 profiles	Up to 3 profiles
Edge Storage	micro SD/SDHC 1slot 32GB	micro SD/SDHC 1slot 32GB	micro SD/SDHC 1slot 32GB	micro SD/SDHC 1slot 32GB	micro SD/SDHC 1slot 128GB	micro SD/SDHC 1slot 32GB	micro SD/SDHC 1slot 32GB
Application Programming Interface	ONVIF Profile S/G/T SUNAPI (HTTP API)	ONVIF Profile S/G/T SUNAPI (HTTP API)	ONVIF Profile S/G/T SUNAPI (HTTP API)	ONVIF Profile S/G/T SUNAPI (HTTP API)	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API)	ONVIF Profile S/G/T SUNAPI (HTTP API)
Operating Temperature	-30°C ~ +55°C (-22°F ~ +131°F) / Less than 95% RH * Start up should be done at above -20°C (-4°F)	-30°C ~ +55°C (-22°F ~ +131°F) / Less than 95% RH * Start up should be done at above -20°C (-4°F)	-30°C ~ +55°C (-22°F ~ +131°F) / Less than 95% RH * Start up should be done at above -20°C (-4°F)	-30°C ~ +55°C (-22°F ~ +131°F) / Less than 95% RH * Start up should be done at above -20°C (-4°F)	-30°C ~ +55°C (-22°F ~ +131°F) / Less than 90% RH * Start up should be done at above -20°C (-4°F)	-30°C ~ +55°C (-22°F ~ +131°F) / Less than 90% RH * Start up should be done at above -20°C (-4°F)	-30°C ~ +55°C (-22°F ~ +131°F) / Less than 90% RH * Start up should be done at above -20°C (-4°F)
Certification	IP66	IP66	IP66	IP66, IK10	IP66, IK10	IP66, IK10	IP67, IK10
Power Consumption	Max 6.4W, Typical 5W	Max 6.4W, Typical 5W	Max 7W, Typical 5W	Max 6.4W, Typical 5W	Max 6.4W, Typical 5W	Max 7W, Typical 5W	Max 6.6W, Typical 4.8W
Dimensions (WxHxD) / Weight	Ø78.0 x 262.0mm (Ø3.07" x 10.31") 390g (0.86lb)	Ø78.0 x 262.0mm (Ø3.07" x 10.31") 390g (0.86lb)	Ø78.0 x 262.0mm (Ø3.07" x 10.31") 390g (0.86lb)	Ø120.3x91.7mm (Ø4.74" x 3.61") 410g	Ø137.8x106.1mm (Ø5.43" x 4.18") 525g (1.16lb)	Ø137.8x107.1mm (Ø5.43" x 4.22") 550g	Ø125.0x87.4mm (Ø4.92" x 3.44") 630g



# P series AI Camera & NVR

Precise Object Detection & Classification with AI

Person

Face

Vehicle

License plate

Equipped with a powerful artificial intelligence (AI) engine that detects and classifies people and vehicles in real time, Wisenet P series AI cameras are designed to accurately capture the unique attributes of objects such as faces and license plates, whilst reducing false alarms caused by waving trees, video noise, and even shadows. It enables operators to quickly and efficiently search for specific events or objects with defined attributes.



AI Camera Series **4K** **2MP**

PNO-A9081R/A6081R, PNV-A9081R/A6081R, PND-A9081RV/A6081RV, PND-A9081RF/A6081RF, PNB-A9001/A6001

\* See more at P16 - P28



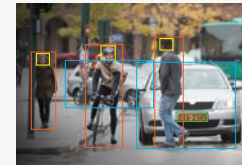
AI NVR Series

PRN-3200B4/3200B2/1600B2

\* See more at P79

## Wisenet AI Camera

Detect and classify objects real-time



VMS Plug-in for improved AI search

\* Person, face, vehicle, license plate

## Wisenet AI Search

Quickly search based on attributes



\* AI plug-ins offer seamless integration with VMS from Milestone and Genetec

# High performance NVR

High resolution and great efficiency.  
Quick and precise search enabled by  
Hanwha Vision NVR

Hanwha Vision's Wisenet NVR allows recording and streaming of videos in super high resolution and enhanced the efficiency of event and channel management with the new UI. It also offers AI based quick and precise object detection and classification on top of smart search.



## Monitor all sub channels without registering them all

With the new Virtual Channel View, user can register only 1 main channel for recording and monitor sub channels without registering them to the NVR. In other words, no need to record every sub channel that needs to be simply streamed for live monitoring.

Registered channel  
Recording and monitoring

CAMERA A  
Channel #01

Using 1 channel on NVR  
(can monitor up to 4CH)

Unregistered channel  
Monitoring sub channels without recording

CAMERA A  
Channel #02

CAMERA A  
Channel #03

CAMERA A  
Channel #04

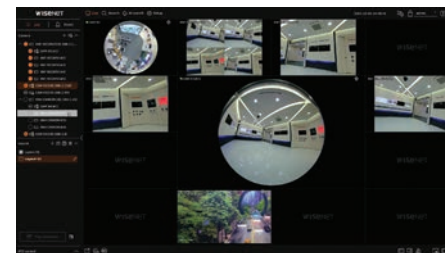
## Installation Wizard for easy auto recognition and setup

Local/web based installation wizard with a single UI provides easy and quick auto camera recognition and registration as well as configuration of each channel.



## Design your own monitoring channels with the Dynamic layout

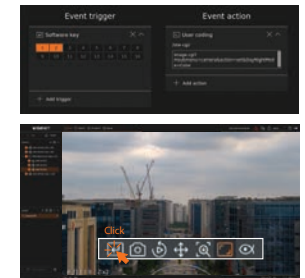
Dynamic layout allows users to freely customize the channel display. Set the best channel display and create the most intuitive monitoring environment.



## Code your own event action with SUNAPI command and Integrate with the Software Key

Users can code their own event action using SUNAPI commands and integrate it with the Software Key. Then, a simple click on the Software Key appears on the channel display will run the event action. Customized codes run separately.

- 1 Code event action\* and integrate with the Software key  
\* Simple focus, Day&Night (ICR), Alarm Out, etc.
- 2 Click the Software key to initiate the event action



# AI NVR

## AI enhances accuracy and efficiency

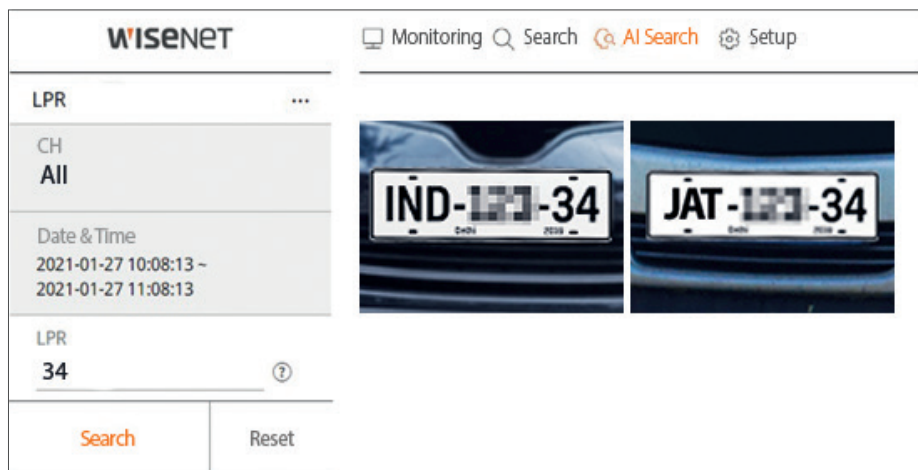
Wisenet AI NVR with AI algorithms provides accurate object detection/classification/search, increasing the efficiency of monitoring operation.



## License Plate Recognition LPR (Search)

Through OCR (Optical Character Recognition) processing, the BestShot images of the license plates are converted into machine-readable text and numbers then stored in the Wisenet AI NVR in the form of digital data together with the images of license plates. Users can easily search license plates by typing in the numbers or characters of the license plate.

\* Attributes : People (Clothing colors for top and bottom/ Wearing or carrying a bag) / Face (Age group, gender, mask/glasses wearing) when integrated with Wisenet cameras, Vehicle (Types, colors) / License plate (Optical technology converts images into texts for storage, supporting search in text



When managing multi channels, the Wisenet AI NVR greatly improves search efficiency by allowing users to preview images and videos by simply hovering mouse cursor on the timeline. Moreover, users can configure event and alarm for all channels within a single page.



## Live monitoring and bookmarks

With Live Monitoring, users can configure the split mode as desired to view video footage in real time or find information such as system malfunction, overload or recording status for each channel. In the PTZ control mode, users can click arrow keys to move the PTZ in eight directions or zoom in to a certain area for more detailed monitoring. With Bookmark feature, users can designate up to 100 events for easy and quick event search.





PRN-6400DB4  
64CH AI NVR



PRN-3200B4  
32CH AI NVR



PRN-3200B2  
32CH AI NVR



PRN-1600B2  
16CH AI NVR

OS	Linux	Linux	Linux	Linux
Supported Compression	H.265 / H.264, MJPEG, WiseStream	H.265 / H.264, MJPEG, WiseStream	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Max. Recording Bit Rate	400Mbps	400Mbps	400Mbps	250Mbps
Max # of Cameras	64CH	32CH	32CH	16CH
Network Camera Resolution	32MP ~ CIF	32MP ~ CIF	32MP ~ CIF	32MP ~ CIF
HDD Slot	Up to 16 SATA (Max. 160TB)	Up to 16 SATA (Max. 160TB)	Up to 8 SATA (Max. 80TB, Non-RAID mode)	Up to 8 SATA (Max. 80TB, Non-RAID mode)
Record Mode	Normal, Dual Stream, Schedule (Continuous/Event), Event (Pre/Post), Bookmark	Normal, Dual Stream, Schedule (Continuous/Event), Event (Pre/Post), Bookmark	Normal, Dual Stream, Schedule (Continuous/Event), Event (Pre/Post), Bookmark	Normal, Dual Stream, Schedule (Continuous/Event), Event (Pre/Post), Bookmark
Event Trigger	Alarm Input, Video Loss, Camera Event (Sensor, MD, Video Analytics, Defocus, Audio), Dynamic Event, User Event	Alarm Input, Video Loss, Camera Event (Sensor, MD, Video Analytics, Defocus, Audio), Dynamic Event, User Event	Alarm Input, Video Loss, Camera Event (Sensor, MD, Video Analytics, Defocus, Audio), Dynamic Event, User Event	Alarm Input, Video Loss, Camera Event (Sensor, MD, Video Analytics, Defocus, Audio), Dynamic Event, User Event
Event Action	e-Mail, Event Push, PTZ Preset, Alarm Out, Buzzer, Monitor Out, FTP, SUNAPI Command, Shutdown	e-Mail, Event Push, PTZ Preset, Alarm Out, Buzzer, Monitor Out, FTP, SUNAPI Command, Shutdown	e-Mail, Event Push, PTZ Preset, Alarm Out, Buzzer, Monitor Out, FTP, SUNAPI Command, Shutdown	e-Mail, Event Push, PTZ Preset, Alarm Out, Buzzer, Monitor Out, FTP, SUNAPI Command, Shutdown
External Storage	iSCSI	iSCSI	iSCSI storage	iSCSI storage
RAID	RAID 5/6	RAID 5/6	RAID 5/6	RAID 5/6
Hot Swap	Yes	Yes	Yes	Yes
Network Viewer Software	SSM, Webviewer, Smart Viewer, Wisenet mobile, Wisenet Viewer, Support CGI (SUNAPI) for integration to 3'rd party VMS	SSM, Webviewer, Smart Viewer, Wisenet mobile, Wisenet Viewer, Support CGI (SUNAPI) for integration to 3'rd party VMS	SSM, Webviewer, Smart Viewer, Wisenet mobile, Wisenet Viewer, Support CGI (SUNAPI) for integration to 3'rd party VMS	SSM, Webviewer, Smart Viewer, Wisenet mobile, Wisenet Viewer, Support CGI (SUNAPI) for integration to 3'rd party VMS
Local Monitor	Support dual monitor HDMI 1 (Up to 4K), HDMI 2 (FHD)	Support dual monitor HDMI 1 (Up to 4K), HDMI 2 (FHD)	Support dual monitor HDMI 1 (Up to 4K), HDMI 2 (FHD)	Support dual monitor HDMI 1 (Up to 4K), HDMI 2 (FHD)
Network Camera Protocol	SUNAPI, ONVIF	SUNAPI, ONVIF	SUNAPI, ONVIF	SUNAPI, ONVIF
Power Input	100 ~ 240 VAC ±10%, 50/60 Hz (Dual SMPS)	100 ~ 240 VAC ±10% 50/60 Hz	100 ~ 240 VAC ±10%; 50/60 Hz, 2.1A	100 ~ 240 VAC ±10%; 50/60 Hz, 2.1A
Power Consumption	Max. 265W (16 HDD)	Max. 265W (16 HDD)	Max. 205W (With 10TB HDDs 8EA)	Max. 205W (With 10TB HDDs 8EA)
PoE Budget	-	-	-	-
Additional Features	<ul style="list-style-type: none"> <li>• LPR search (English, Numbers)</li> <li>• AI search attribute (Person, Face - with Wisenet AI camera, Vehicle, Licence plate)</li> <li>• N+1 failover supported</li> <li>• PTZ camera configuration and control</li> <li>• Dynamic layout</li> <li>• Virtual channel view</li> </ul>	<ul style="list-style-type: none"> <li>• LPR search (English, Numbers)</li> <li>• AI search attribute (Person, Face - with Wisenet AI camera, Vehicle, Licence plate)</li> <li>• N+1 failover supported</li> <li>• PTZ camera configuration and control</li> <li>• Dynamic layout</li> <li>• Virtual channel view</li> </ul>	<ul style="list-style-type: none"> <li>• LPR search (English, Numbers)</li> <li>• AI search attribute (Person, Face - with Wisenet AI camera, Vehicle, Licence plate)</li> <li>• N+1 failover supported</li> <li>• PTZ camera configuration and control</li> <li>• Dynamic layout</li> <li>• Virtual channel view</li> </ul>	<ul style="list-style-type: none"> <li>• LPR search (English, Numbers)</li> <li>• AI search attribute (Person, Face - with Wisenet AI camera, Vehicle, Licence plate)</li> <li>• N+1 failover supported</li> <li>• PTZ camera configuration and control</li> <li>• Dynamic layout</li> <li>• Virtual channel view</li> </ul>



XRN-6410DB4  
64CH NVR



XRN-6410RB2  
64CH NVR



XRN-6410B2  
64CH NVR



XRN-3210B4  
32CH NVR

OS	Linux	Linux	Linux	Linux
Supported Compression	H.265 / H.264, MJPEG, WiseStream	H.265 / H.264, MJPEG, WiseStream	H.265 / H.264, MJPEG, WiseStream	H.265 / H.264, MJPEG, WiseStream
Max. Recording Bit Rate	400Mbps	400Mbps	400Mbps	400Mbps
Max # of Cameras	64CH	64CH	64CH	32CH
Network Camera Resolution	32MP ~ CIF	32MP ~ CIF	32MP ~ CIF	32MP ~ CIF
HDD Slot	Up to 16 SATA (Max. 160TB)	Up to 8 SATA (Max. 80TB)	Up to 8 SATA (Max. 80TB)	Up to 16 SATA (Max. 160TB)
Record Mode	Normal, Dual Stream, Schedule (Continuous/Event), Event (Pre/Post), Bookmark	Normal, Dual Stream, Schedule (Continuous/Event), Event (Pre/Post), Bookmark	Normal, Dual Stream, Schedule (Continuous/Event), Event (Pre/Post), Bookmark	Normal, Dual Stream, Schedule (Continuous/Event), Event (Pre/Post), Bookmark
Event Trigger	Alarm Input, Video Loss, Camera Event (Sensor, MD, Video Analytics, Defocus, Audio), Dynamic Event, User Event	Alarm Input, Video Loss, Camera Event (Sensor, MD, Video Analytics, Defocus, Audio), Dynamic Event, User Event	Alarm Input, Video Loss, Camera Event (Sensor, MD, Video Analytics, Defocus, Audio), Dynamic Event, User Event	Alarm Input, Video Loss, Camera Event (Sensor, MD, Video Analytics, Defocus, Audio), Dynamic Event, User Event
Event Action	e-Mail, Event Push, PTZ Preset, Alarm Out, Buzzer, Monitor Out, FTP, SUNAPI Command, Shutdown	e-Mail, Event Push, PTZ Preset, Alarm Out, Buzzer, Monitor Out, FTP, SUNAPI Command, Shutdown	e-Mail, Event Push, PTZ Preset, Alarm Out, Buzzer, Monitor Out, FTP, SUNAPI Command, Shutdown	e-Mail, Event Push, PTZ Preset, Alarm Out, Buzzer, Monitor Out, FTP, SUNAPI Command, Shutdown
External Storage	iSCSI	iSCSI	iSCSI	iSCSI
RAID	RAID 5/6	RAID 5/6	-	RAID 5/6
Hot Swap	Yes	Yes	-	Yes
Network Viewer Software	SSM, Webviewer, Smart Viewer, Wisenet mobile, Wisenet Viewer, Support CGI (SUNAPI) for integration to 3'rd party VMS	SSM, Webviewer, Smart Viewer, Wisenet mobile, Wisenet Viewer, Support CGI (SUNAPI) for integration to 3'rd party VMS	SSM, Webviewer, Smart Viewer, Wisenet mobile, Wisenet Viewer, Support CGI (SUNAPI) for integration to 3'rd party VMS	SSM, Webviewer, Smart Viewer, Wisenet mobile, Wisenet Viewer, Support CGI (SUNAPI) for integration to 3'rd party VMS
Local Monitor	Support dual monitor HDMI 1 (Up to 4K), HDMI 2 (FHD)	Support dual monitor HDMI 1 (Up to 4K), HDMI 2 (FHD)	Support dual monitor HDMI 1 (Up to 4K), HDMI 2 (FHD)	Support dual monitor HDMI 1 (Up to 4K), HDMI 2 (FHD)
Network Camera Protocol	SUNAPI, ONVIF	SUNAPI, ONVIF	SUNAPI, ONVIF	SUNAPI, ONVIF
Power Input	100 ~ 240 VAC ±10%; 50/60 Hz, 2.7A (Dual SMPS / XRN-6410B4)	100 ~ 240 VAC ±10%; 50/60 Hz	100 ~ 240 VAC ±10%; 50/60 Hz	100 ~ 240 VAC ±10%; 50/60 Hz, 2.7A
Power Consumption	Max. 265W (16 HDD)	Max. 138W (8 HDD)	Max. 138W (8 HDD)	Max. 265W (16 HDD)
PoE Budget	-	-	-	-
Additional Features	<ul style="list-style-type: none"> <li>• N+1 failover supported</li> <li>• AI search (BestShot, Attribute) <ul style="list-style-type: none"> <li>- When integrated with Wisenet AI cameras</li> </ul> </li> <li>• PTZ camera configuration and control</li> <li>• Dual SMPS (6410DB4)</li> <li>• Dynamic layout</li> <li>• Virtual channel view</li> <li>• Fisheye dewarping</li> </ul>	<ul style="list-style-type: none"> <li>• N+1 failover supported</li> <li>• AI search (BestShot, Attribute) <ul style="list-style-type: none"> <li>- When integrated with Wisenet AI cameras</li> </ul> </li> <li>• PTZ camera configuration and control</li> <li>• Dual SMPS (6410DB4)</li> <li>• Dynamic layout</li> <li>• Virtual channel view</li> <li>• Fisheye dewarping</li> </ul>	<ul style="list-style-type: none"> <li>• N+1 failover supported</li> <li>• AI search (BestShot, Attribute) <ul style="list-style-type: none"> <li>- When integrated with Wisenet AI cameras</li> </ul> </li> <li>• PTZ camera configuration and control</li> <li>• Dynamic layout</li> <li>• Fisheye dewarping</li> </ul>	<ul style="list-style-type: none"> <li>• N+1 failover supported</li> <li>• AI search (BestShot, Attribute) <ul style="list-style-type: none"> <li>- When integrated with Wisenet AI cameras</li> </ul> </li> <li>• PTZ camera configuration and control</li> <li>• Fisheye dewarping</li> </ul>



XRN-3210RB2  
32CH NVR

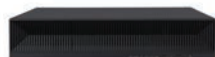


XRN-3210B2  
32CH NVR



XRN-1620SB1  
16CH NVR

	XRN-3210RB2 32CH NVR	XRN-3210B2 32CH NVR	XRN-1620SB1 16CH NVR
OS	Linux	Linux	Linux
Supported Compression	H.265 / H.264, MJPEG, WiseStream	H.265 / H.264, MJPEG, WiseStream	H.265 / H.264, MJPEG, WiseStream
Max. Recording Bit Rate	400Mbps	400Mbps	140Mbps
Max # of Cameras	32CH	32CH	16CH
Network Camera Resolution	32MP ~ CIF	32MP ~ CIF	32MP ~ CIF
HDD Slot	Up to 8 SATA (Max. 80TB)	Up to 8 SATA (Max. 80TB)	Up to 4 SATA (Max. 24TB)
Record Mode	Normal, Dual Stream, Schedule (Continuous/Event), Event (Pre/Post), Bookmark	Normal, Dual Stream, Schedule (Continuous/Event), Event (Pre/Post), Bookmark	Normal, Dual Stream, Schedule (Continuous/Event), Event (Pre/Post)
Event Trigger	Alarm Input, Video Loss, Camera Event (Sensor, MD, Video Analytics, Defocus, Audio), Dynamic Event, User Event	Alarm Input, Video Loss, Camera Event (Sensor, MD, Video Analytics, Defocus, Audio), Dynamic Event, User Event	Alarm Input, Video Loss, Camera Event (Sensor, MD, Video Analytics, Defocus, Audio), Dynamic Event, User Event
Event Action	e-Mail, Event Push, PTZ Preset, Alarm Out, Buzzer, Monitor Out, FTP, SUNAPI Command, Shutdown	e-Mail, Event Push, PTZ Preset, Alarm Out, Buzzer, Monitor Out, FTP, SUNAPI Command, Shutdown	e-Mail, Event Push, PTZ Preset, Alarm Out, Buzzer, Monitor Out, FTP, SUNAPI Command, Shutdown
External Storage	iSCSI	iSCSI	-
RAID	RAID 5/6	-	-
Hot Swap	Yes	-	-
Network Viewer Software	SSM, Webviewer, Smart Viewer, Wisenet mobile, Wisenet Viewer, Support CGI (SUNAPI) for integration to 3 <sup>rd</sup> party VMS	SSM, Webviewer, Smart Viewer, Wisenet mobile, Wisenet Viewer, Support CGI (SUNAPI) for integration to 3 <sup>rd</sup> party VMS	SSM, Webviewer, Smart Viewer, Wisenet mobile, Wisenet Viewer, Support CGI (SUNAPI) for integration to 3 <sup>rd</sup> party VMS
Local Monitor	Support dual monitor HDMI 1 (Up to 4K), HDMI 2 (FHD)	Support dual monitor HDMI 1 (Up to 4K), HDMI 2 (FHD)	Support dual monitor HDMI 1 (Up to 4K), HDMI 2 (FHD)
Network Camera Protocol	SUNAPI, ONVIF	SUNAPI, ONVIF	SUNAPI, ONVIF
Power Input	100 ~ 240VAC ±10%, 50/60 Hz	100 ~ 240VAC ±10%, 50/60 Hz	100 ~ 240VAC ±10%, 50/60 Hz
Power Consumption	Max. 160W (8 HDD)	Max. 138W (8 HDD)	Max. 310W
PoE Budget	-	-	200W
Additional Features	<ul style="list-style-type: none"> <li>• N+1 failover supported</li> <li>• AI search (BestShot, Attribute) <ul style="list-style-type: none"> <li>- When integrated with Wisenet AI cameras</li> </ul> </li> <li>• PTZ camera configuration and control</li> <li>• Fisheye dewarping</li> </ul>	<ul style="list-style-type: none"> <li>• N+1 failover supported</li> <li>• AI search (BestShot, Attribute) <ul style="list-style-type: none"> <li>- When integrated with Wisenet AI cameras</li> </ul> </li> <li>• PTZ camera configuration and control</li> <li>• Fisheye dewarping</li> </ul>	<ul style="list-style-type: none"> <li>• PoE supported</li> <li>• N+1 failover supported</li> <li>• AI search (BestShot, Attribute) <ul style="list-style-type: none"> <li>- When integrated with Wisenet AI cameras</li> </ul> </li> <li>• PTZ camera configuration and control</li> </ul>



XRN-1620B2  
16CH NVR



XRN-820S  
8CH NVR

OS	Linux	Linux
Supported Compression	H.265 / H.264, MJPEG, WiseStream	H.265 / H.264, MJPEG, WiseStream
Max. Recording Bit Rate	140Mbps	100Mbps
Max # of Cameras	16CH	8CH
Network Camera Resolution	32MP ~ CIF	32MP ~ CIF
HDD Slot	Up to 8 SATA (Max. 80TB)	Up to 2 SATA (Max. 12TB)
Record Mode	Normal, Dual Stream, Schedule (Continuous/Event), Event (Pre/Post)	Normal, Dual Stream, Schedule (Continuous/Event), Event (Pre/Post)
Event Trigger	Alarm Input, Video Loss, Camera Event (Sensor, MD, Video Analytics, Defocus, Audio), Dynamic Event, User Event	Alarm Input, Video Loss, Camera Event (Sensor, MD, Video Analytics, Defocus, Audio), Dynamic Event, User Event
Event Action	e-Mail, Event Push, PTZ Preset, Alarm Out, Buzzer, Monitor Out, FTP, SUNAPI Command, Shutdown	e-Mail, Event Push, PTZ Preset, Alarm Out, Buzzer, Monitor Out, FTP, SUNAPI Command, Shutdown
External Storage	-	-
RAID	-	-
Hot Swap	-	-
Network Viewer Software	SSM, Webviewer, Smart Viewer, Wisenet mobile, Wisenet Viewer, Support CGI (SUNAPI) for integration to 3 <sup>rd</sup> party VMS	SSM, Webviewer, Smart Viewer, Wisenet mobile, Wisenet Viewer, Support CGI (SUNAPI) for integration to 3 <sup>rd</sup> party VMS
Local Monitor	Support dual monitor HDMI 1 (Up to 4K), HDMI 2 (FHD)	Support dual monitor HDMI 1 (Up to 4K), HDMI 2 (FHD)
Network Camera Protocol	SUNAPI, ONVIF	SUNAPI, ONVIF
Power Input	100 ~ 240 VAC ±10%; 50/60 Hz	100 ~ 240 VAC ±10%; 50/60 Hz
Power Consumption	Max. 130W	Max. 160W
PoE Budget	-	100W
Additional Features	<ul style="list-style-type: none"> <li>• PoE supported</li> <li>• N+1 failover supported</li> <li>• AI search (BestShot, Attribute)               <ul style="list-style-type: none"> <li>- When integrated with Wisenet AI cameras</li> </ul> </li> <li>• PTZ camera configuration and control</li> </ul>	<ul style="list-style-type: none"> <li>• PoE supported</li> <li>• N+1 failover supported</li> <li>• AI search (BestShot, Attribute)               <ul style="list-style-type: none"> <li>- When integrated with Wisenet AI cameras</li> </ul> </li> <li>• PTZ camera configuration and control</li> </ul>





QNR-1630S  
16CH NVR



QNR-830S  
8CH NVR

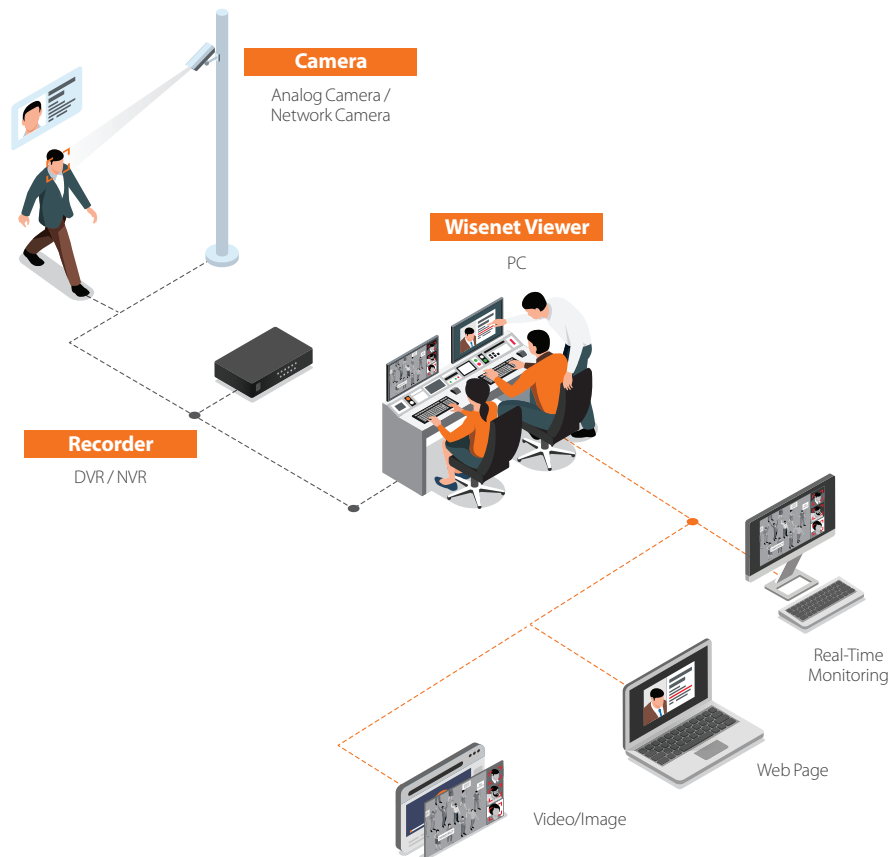


QNR-430S  
4CH NVR

OS	Linux	Linux	Linux
Supported Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Max. Recording Bit Rate	128Mbps	Max. 80Mbps	40Mbps
Max # of Cameras	16CH	8CH	4CH
Network Camera Resolution	8MP ~ CIF	8MP ~ CIF	8MP ~ CIF
HDD Slot	Up to 2 SATA (Max. 20TB)	Up to 1 SATA (Max. 6TB)	Up to 1 SATA (Max. 6TB)
Record Mode	Normal, Dual Stream, Schedule (Continuous/Event), Event (Pre/Post), Bookmark	Normal, Dual Stream, Schedule (Continuous/Event), Event (Pre/Post), Bookmark	Normal, Dual Stream, Schedule(Continuous/Event), Event (Pre/Post), Bookmark
Event Trigger	Alarm Input, Video Loss, Camera Event (Sensor, MD, Video Analytics, Defocus, Audio), Dynamic Event, User Event	Alarm Input, Video Loss, Camera Event (Sensor, MD, Video Analytics, Defocus, Audio), Dynamic Event, User Event	Alarm Input, Video Loss, Camera Event(Sensor, MD, Video Analytics, Defocus, Audio), Dynamic Event
Event Action	e-Mail, Event Push, PTZ Preset, Alarm Out, Buzzer, Monitor Out, FTP, SUNAPI Command, Shutdown	e-Mail, Event Push, PTZ Preset, Alarm Out, Buzzer, Monitor Out, FTP, SUNAPI Command, Shutdown	e-Mail, Event Push, PTZ Preset, Alarm Out, Buzzer, Monitor Out
External Storage	-	-	-
RAID	-	-	-
Hot Swap	-	-	-
Network Viewer Software	SSM, Webviewer, Smart Viewer, Wisenet mobile, Wisenet Viewer, Support CGI (SUNAPI) for integration to 3'rd party VMS	SSM, Webviewer, Smart Viewer, Wisenet mobile, Wisenet Viewer, Support CGI (SUNAPI) for integration to 3'rd party VMS	SSM, Webviewer, Smart Viewer, Wisenet mobile, Wisenet Viewer, Support CGI (SUNAPI) for integration to 3'rd party VMS
Local Monitor	HDMI1: 3840 x 2160(30Hz), HDMI2: 1920 x1080(60Hz)	HDMI :3840 x 2160 (30Hz)	HDMI 1 (Up to 4K)
Network Camera Protocol	SUNAPI, ONVIF	SUNAPI, ONVIF	SUNAPI, ONVIF
Power Input	100 ~ 240VAC ±10%; 50/60 Hz	54VDC / 1.55A	100 ~ 240VAC ±10%; 50/60 Hz
Power Consumption	Max. 200W (2HDD, PoE ON)	Max 84W (1HDD, PoE ON)	Max 52W (1HDD, PoE On)
PoE Budget	130W	65W	35W
Additional Features	<ul style="list-style-type: none"> <li>• PoE supported</li> <li>• N+1 failover supported</li> <li>• ARB (Auto Recovery Backup) redundancy supported</li> <li>• PTZ camera configuration and control</li> <li>• Easy configuration (Setup Wizard, P2P (QR Code))</li> </ul>	<ul style="list-style-type: none"> <li>• PoE supported</li> <li>• N+1 failover supported</li> <li>• ARB (Auto Recovery Backup) redundancy supported</li> <li>• PTZ camera configuration and control</li> <li>• Easy configuration (Setup Wizard, P2P (QR Code))</li> </ul>	<ul style="list-style-type: none"> <li>• PoE supported</li> <li>• N+1 failover supported</li> <li>• ARB (Auto Recovery Backup) redundancy supported</li> <li>• PTZ camera configuration and control</li> <li>• Easy configuration (Setup Wizard, P2P (QR Code))</li> </ul>

# WISeNET Viewer

Costless yet powerful NVR·DVR Management Software

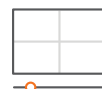


## Monitoring with PC gets easier

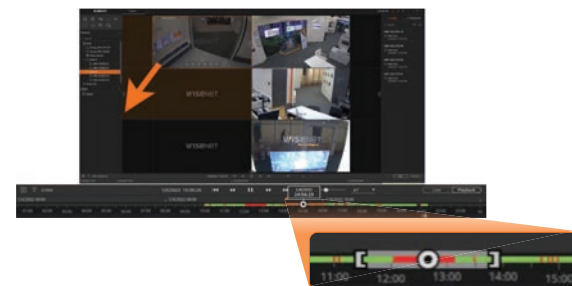
- Supports multiple OS (Windows, macOS)
- Flexible channel division and custom layout
- AI search (Person, Face, Vehicle, LPR)
- Fisheye de-warping
- Displays web pages (ex. NVR web-viewer) and video tutorials
- Allows videos to be directly saved to PC
- Event trigger and action rule management
- Remote connection (DDNS/P2P)

\* Available on Windows, macOS

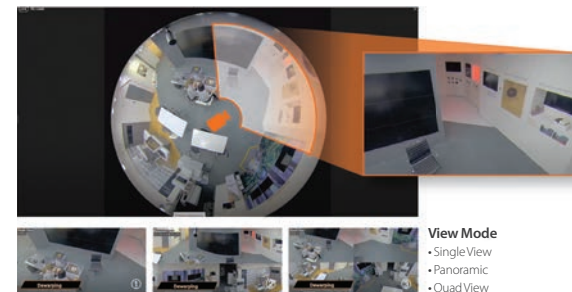
## Effective monitoring with essential features



Customizable channel layout & Timeline



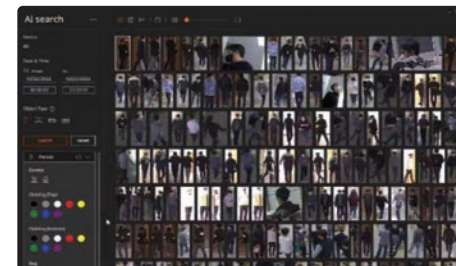
Easy monitoring with Fisheye Dewarping



**View Mode**  
 • Single View  
 • Panoramic  
 • Quad View



Intelligent monitoring powered by AI Search



## Encoder



**SPE-1630**  
16CH Encoder



**SPE-420**  
4CH Encoder

Max. # of Cameras	16	4
Supported Compression	H.265 / H.264, MJPEG	H.265 / H.264, MJPEG
Max. Resolution	5MP/4MP/1080p/720p/WD1/4CIF/CIF	5MP/4MP/1080p/720p/WD1/4CIF/CIF
Max. Frame Rate per Channel	5MP: 12fps/CH, 4MP: 15fps/CH, 1080p/720p/WD1/4CIF/CIF: 30fps/CH(N), 25fps/CH(P)	5MP: 12fps/CH, 4MP: 15fps/CH, 1080p/720p/WD1/4CIF/CIF: 30fps/CH(N), 25fps/CH(P)
Bi-Directional Audio	Support	Support
RS-485	Support	Support
Alarm I/O	4 / 1	4 / 2
Application Programming Interface	ONVIF profile S, SUNAPI	ONVIF profile S, SUNAPI
Power	MAX: 20W (12V, 1.67A)	MAX: 5W (PoE & 12VDC)

## Decoder



**SPD-152**  
1 Monitor Decoder

Video Out	HDMI (2ea)
Resolution	HDMI#1 up to 4K, HDMI#2 up to 1080p
Display	Max. 64ch decoding Decoding performance : 8M@60fps, 2M@360fps
Power	Dual Power : 12VDC, PoE (IEEE802.3af)
Additional Features	Multi adapter for monitor back mount (VESA)

# WISENET

## IP Audio System

IP audio meets  
network surveillance system for  
better safety and operational  
efficiency in daily life.



### Main features



**TTS**  
Text To Speech



**PoE & PoE+**  
Dual Support + (up to 101dB)



**SIP**  
PBX integration



**Scheduler**  
Day, Week, Month and Year

## IP Speakers



SPA-C110B/W  
Ceiling Speaker



SPA-P100B/W  
Pendant speaker



SPA-W100B / SPA-W100W  
Wall speaker



SPA-H100B/W  
Horn speaker

Amplifier	Built in 10W Class D	Built in 10W Class D	Built in 10W Class D	Built in 10W Class D
Ethernet	10/100 Base-T	10/100 Base-T	10/100 Base-T	10/100 Base-T
Internal Memory	1 GBytes	1 GBytes	1 GBytes	1 GBytes
Max. Sound Pressure Level	100dB	101dB	101dB	125dB
Frequency Range (-10dB)	120Hz~20kHz	130Hz~20kHz	120Hz~20kHz	650Hz~5.3kHz
Sensitivity (1Watt)	90dB	91dB	91dB	111dB
Power	PoE/ PoE+			
TTS	Korean, English(US, UK), German, French, Spanish, Russian			

## IP Audio Module



SPA-D1000  
Audio Module

## IP Audio Server



SPA-S1000  
Audio Server

Amplifier	Built in 10W Class D
Ethernet	10/100 Base-T
Internal Memory	1 GBytes

Ethernet	100/1000 Base-T
Power	AC 120-240V, 50/60Hz, 10W DC 24V, 350mA
Functional Monitoring	Connection verification, Built-in system logging



**HCB-7000A**  
QHD Box Camera



**HCO-7070RA**  
QHD IR Bullet Camera



**HCO-7010RA/20RA/30RA**  
QHD IR Bullet Camera



**HCD-7070RA**  
QHD IR Dome Camera

	HCB-7000A QHD Box Camera	HCO-7070RA QHD IR Bullet Camera	HCO-7010RA/20RA/30RA QHD IR Bullet Camera	HCD-7070RA QHD IR Dome Camera
Imaging Device	1/3" CMOS	1/3" CMOS	1/3" CMOS	1/3" CMOS
Resolution	2560 x 1440	2560 x 1440	2560 x 1440	2560 x 1440
Min. Illumination	Color: 0.16Lux (F1.2) B/W: 0.009Lux (F1.2)	Color: 0.16Lux (F1.6) B/W: 0Lux (IR LED on)	Color: 0.26Lux (F1.8) (HCO-7010R) 0.27Lux (F2.0) (HCO-7020R/7030R) B/W: 0Lux (IR LED on)	Color: 0.16Lux (F1.6) B/W: 0Lux (IR LED on)
Focal Length	-	3.2 ~ 10mm (3.1x) varifocal	2.8mm fixed (HCO-7010R) 4.0mm fixed (HCO-7020R) 6.0mm fixed (HCO-7030R)	3.2 ~ 10mm (3.1x) varifocal
Angular Field of View	-	H: 93.48° (Wide) ~ 29.44° (Tele) V: 50.47° (Wide) ~ 16.64° (Tele) D: 112.53° (Wide) ~ 33.7° (Tele)	H: 107.48° / V: 59.67° / D: 122.01° (HCO-7010RA) H: 78.22° / V: 41.21° / D: 87.91° (HCO-7020RA) H: 49.01° / V: 27.61° / D: 55.6° (HCO-7030RA)	H: 93.48° (Wide) ~ 29.44° (Tele) V: 50.47° (Wide) ~ 16.64° (Tele) D: 112.53° (Wide) ~ 33.7° (Tele)
Pan / Tilt / Rotate	-	-	-	0° ~ 350° / 0° ~ 63° / 0° ~ 355°
IR Viewable Length	-	30m (98.43ft)	20m (65.62ft) (HCO-7010R) 25m (82.02ft) (HCO-7020R) 30m (98.43ft) (HCO-7030R)	20m (65.62ft)
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Backlight Compensation	BLC/HLC/DWDR	BLC/HLC/DWDR	BLC/HLC/DWDR	BLC/HLC/DWDR
Digital Noise Reduction	2D DNR	2D DNR	2D DNR	2D DNR
Motion detection	Support	Support	Support	Support
Privacy Masking	2 Zones	2 Zones	2 Zones	2 Zones
Alarm I/O	MD Output 1	MD Output 1	-	MD Output 1
Protocol	AHD: ACP (AHD Coax Protocol), CVBS: Pelco-C (Coaxitron) RS-485: Samsung T, Pelco D/P	AHD: ACP (AHD Coax Protocol), CVBS: Pelco-C (Coaxitron)	AHD: ACP (AHD Coax Protocol), CVBS: Pelco-C (Coaxitron)	AHD: ACP (AHD Coax Protocol), CVBS: Pelco-C (Coaxitron)
Operating Temperature	-10° ~ +55° (+14° ~ +131°)	-30° ~ +55° (-22° ~ +131°) * Start up above -10° (+14°)	-30° ~ +55° (-22° ~ +13°) * Start up above -10° (+14°)	-10° ~ +55° (+14° ~ +131°)
Certification	-	IP66, IK10	IP66, IK10	-
Power Consumption	12VDC & 24VAC: Max 3.6W	12VDC & 24VAC: Max 5.8W	12VDC: Max 5W	12VDC & 24VAC: Max 5.8W
Dimensions (WxHxD) / Weight	W 59.6xH 68.4xD 92.7mm (2.35"x2.69"x3.65") 186g (0.41lb)	Ø78 x 259.8mm (Ø3.07" x 10.23") (Without sunshield) 914g (2.02lb)	Ø70 x 246mm (Ø2.76" x 9.69") (Without sunshield) 670g (1.48lb)	Ø119.8 x 98.5mm (Ø4.72" x 3.88") 320g (0.71lb)
Additional Features	Video Transmission up to 500m (5C2V Coaxial Cable)	Video Transmission up to 500m (5C2V Coaxial Cable)	Video Transmission up to 500m (5C2V Coaxial Cable)	Video Transmission up to 500m (5C2V Coaxial Cable)



HCD-7010RA/20RA/30RA  
QHD IR Dome Camera



HCV-7070RA  
QHD IR Vandal Dome Camera



HCV-7010RA/20RA/30RA  
QHD IR Vandal Dome Camera



HCB-6001  
1080p HD Box Camera

Imaging Device	1/3" CMOS	1/3" CMOS	1/3" CMOS	1/2.8" CMOS
Resolution	2560 x 1440	2560 x 1440	2560 x 1440	1920 x 1080
Min. Illumination	Color: 0.26Lux (F1.8) (HCD-7010RA) 0.27Lux (F2.0) (HCD-7020R/7030RA) B/W: 0Lux (IR LED on)	Color: 0.16Lux (F1.6) B/W: 0Lux (IR LED on)	Color: 0.26Lux (F1.8) (HCV-7010R) 0.27Lux (F2.0) (HCV-7020R/7030R) B/W: 0Lux (IR LED on)	Color: 0.09Lux (F1.2) B/W: 0.009Lux (F1.2)
Focal Length	2.8mm fixed (HCD-7010RA) 4.0mm fixed (HCD-7020RA) 6.0mm fixed (HCD-7030RA)	3.2 ~ 10mm (3.1x) varifocal	2.8mm fixed (HCV-7010R) 4.0mm fixed (HCV-7020R) 6.0mm fixed (HCV-7030R)	-
Angular Field of View	H: 107.48° / V: 59.67° / D: 122.01° (HCD-7010RA) H: 78.22° / V: 41.21° / D: 87.91° (HCD-7020RA) H: 49.02° / V: 27.61° / D: 55.6° (HCD-7030RA)	H: 93.48°(Wide) ~ 29.44°(Tele) V: 50.47°(Wide) ~ 16.64°(Tele) D: 112.53°(Wide) ~ 33.7°(Tele)	H: 107.48° / V: 59.67° / D: 122.01° (HCV-7010R) H: 78.22° / V: 41.21° / D: 87.91° (HCV-7020R) H: 49.01° / V: 27.61° / D: 55.6° (HCV-7030R)	-
Pan / Tilt / Rotate	0°~ 350° / 0°~ 67° / 0°~ 355°	0° ~ 350° / 0° ~ 67° / 0° ~ 355°	0° ~ 350° / 0° ~ 67° / 0° ~ 355°	-
IR Viewable Length	20m (65.62ft) (HCD-7010RA) 25m (82.02ft) (HCD-7020RA) 30m (98.43ft) (HCD-7030RA)	30m (98.43ft)	20m (65.62ft) (HCV-7010R) 25m (82.02ft) (HCV-7020R) 30m (98.43ft) (HCV-7030R)	-
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Backlight Compensation	BLC/HLC/DWDR	BLC / HLC / DWDR	BLC/HLC/DWDR	WDR (120dB)
Digital Noise Reduction	2D DNR	2D DNR	2D DNR	SSNRIV
Motion detection	Support	Support	Support	Support
Privacy Masking	2 Zones	2 Zones	2 Zones	4 Zones
Alarm I/O	-	MD Output 1	-	0 / 1, External D/N 1
Protocol	AHD: ACP (AHD Coax Protocol), CVBS: Pelco-C (Coaxitron)	AHD: ACP (AHD Coax Protocol), CVBS: Pelco-C (Coaxitron)	AHD: ACP (AHD Coax Protocol), CVBS: Pelco-C (Coaxitron)	AHD: ACP (AHD Coax Protocol), CVBS: Pelco-C (Coaxitron), CCP (CVI Coax Protocol), TCP (TVI Coax Protocol), RS-485: Samsung T, Pelco D/P, Panasonic, Bosch, Honeywell, Vicon, GE, AD
Operating Temperature	-10° ~ +55° (+14° ~ +131°)	-30° ~ +55° (-22° ~ +131°) * Start up above -10° (+14°)	-30° ~ +55° (-22° ~ +131°) * Start up above -10° (+14°)	-10° ~ +55° (+14° ~ +131°)
Certification	-	IP66, IK10	IP66, IK10	-
Power Consumption	12VDC: Max 5W	12VDC & 24VAC: Max 5.8W	12VDC: Max 5W	12VDC & 24VAC: Max 6W
Dimensions (WxHxD) / Weight	Ø110.1 x 86.1mm (Ø4.33" x 3.39") 240g (0.53 lb)	Ø137 x 106.1mm (Ø5.39" x 4.18") 715g (1.58 lb)	Ø120.3 x 91.7mm (Ø4.74" x 3.61") 510g (1.12 lb)	W 130.9xH 73.1xD 67.2mm (5.15"x2.88"x2.65") 287g (0.63 lb)
Additional Features	Video Transmission up to 500m (5C2V Coaxial Cable)	Video Transmission up to 500m (5C2V Coaxial Cable)	Video Transmission up to 500m (5C2V Coaxial Cable)	Video transmission up to 500m (5C2V Coaxial Cable)



**HCB-6000**  
1080p HD Box Camera



**HCO-6080R**  
1080p HD IR Bullet Camera



**HCO-6070R**  
1080p HD IR Bullet Camera



**HCO-6020R**  
1080p HD IR Bullet Camera

Imaging Device	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Resolution	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
Min. Illumination	Color: 0.09Lux (F1.2) B/W: 0.009Lux (F1.2)	Color: 0.11Lux (F1.6) B/W: 0Lux (IR LED on)	Color: 0.11Lux (F1.6) B/W: 0Lux (IR LED on)	Color: 0.17Lux (F1.6) B/W: 0Lux (IR LED on)
Focal Length	-	3.2 ~ 10mm (3.1x) motorized varifocal	3.2 ~ 10mm (3.1x) varifocal	4mm fixed (F1.6)
Angular Field of View	-	H: 110.2° (Wide) ~ 32° (Tele) V: 55.4° (Wide) ~ 18° (Tele) D: 128.4° (Wide) ~ 36.6° (Tele)	H: 110.2° (Wide) ~ 32° (Tele) V: 55.4° (Wide) ~ 18° (Tele) D: 128.4° (Wide) ~ 36.6° (Tele)	H: 87.6° / V: 46.4° / D: 104.5°
Pan / Tilt / Rotate	-	-	-	-
IR Viewable Length	-	30m (98.43ft)	30m (98.43ft)	30m (98.43ft)
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Backlight Compensation	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)
Digital Noise Reduction	SSNR IV	SSNR IV	SSNR IV	SSNR IV
Motion detection	Support	Support	Support	Support
Privacy Masking	8 Zones	8 Zones	8 Zones	8 Zones
Alarm I/O	0 / 1, External D/N 1	MD Output 1	MD Output 1	-
Protocol	AHD: ACP (AHD Coax Protocol), CVBS: Pelco-C (Coaxitron), CCP (CVI Coax Protocol), TCP (TVI Coax Protocol), RS-485: Samsung T, Pelco D/P, Panasonic, Bosch, Honeywell, Vicon, GE, AD	AHD: ACP (AHD Coax Protocol), CVBS: Pelco-C (Coaxitron), CCP (CVI Coax Protocol), TCP (TVI Coax Protocol)	AHD: ACP (AHD Coax Protocol), CVBS: Pelco-C (Coaxitron), CCP (CVI Coax Protocol), TCP (TVI Coax Protocol)	AHD: ACP (AHD Coax Protocol), CVBS: Pelco-C (Coaxitron), CCP (CVI Coax Protocol), TCP (TVI Coax Protocol)
Operating Temperature	-10° ~ +55° (+14° ~ +131°)	-30° ~ +55° (-22° ~ +131°) * Start up above -10° (+14°)	-30° ~ +55° (-22° ~ +131°) * Start up above -10° (+14°)	-30° ~ +55° (-22° ~ +131°) * Start up above -10° (+14°)
Certification	-	IP66, IK10	IP66, IK10	IP66
Power Consumption	12VDC & 24VAC: Max 3.5W	12VDC & 24VAC: Max 5.8W	12VDC & 24VAC: Max 6W	12VDC: Max 5.4W
Dimensions (WxHxD) / Weight	W 68.4xH 59.6 xD 92.7mm (2.69"x2.35"x3.65") 186g (0.41 lb)	Ø78 x 259.8mm (Ø3.07" x 10.23") (Without sunshield) 948g (2.09lb)	Ø78 x 259.8mm (Ø3.07" x 10.23") (Without sunshield) 914g (2.02lb)	Ø58.6 x 165.2mm (Ø2.31" x 6.5") (Without sunshield) 279g (0.62lb)
Additional Features	Video transmission up to 500m (5C2V Coaxial Cable)	Video transmission up to 500m (5C2V Coaxial Cable)	Video transmission up to 500m (5C2V Coaxial Cable)	Video transmission up to 500m (5C2V Coaxial Cable)





HCD-6080R/6070R  
1080p HD IR Dome Camera



HCD-6020R  
1080p HD IR Dome Camera



HCD-6010  
1080p HD Dome Camera



HCV-6080R/6070R  
1080p HD IR Vandal Dome Camera

Imaging Device	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Resolution	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
Min. Illumination	Color : 0.11Lux (F1.6) B/W : 0Lux (IR LED on)	Color : 0.17Lux (F1.6) B/W : 0Lux (IR LED on)	Color : 0.27Lux (F2.0) B/W : 0.017 Lux (F2.0)	Color : 0.11Lux (F1.6) B/W : 0Lux (IR LED on)
Focal Length	3.2 ~ 10mm (3.1x) motorized varifocal (HCD-6080R) varifocal (HCD-6070R)	4mm fixed (F1.6)	2.8mm fixed (F2.0)	3.2 ~ 10mm (3.1x) motorized varifocal (HCV-6080R) varifocal (HCV-6070R)
Angular Field of View	H : 110.2° (Wide) ~ 32° (Tele) V : 55.4° (Wide) ~ 18° (Tele) D : 128.4° (Wide) ~ 36.6° (Tele)	H : 87.6° / V : 46.4° / D : 104.5°	H : 113.7° / V : 61.5° / D : 134.5°	H : 110.2° (Wide) ~ 32° (Tele) V : 55.4° (Wide) ~ 18° (Tele) D : 128.4° (Wide) ~ 36.6° (Tele)
Pan / Tilt / Rotate	0°~350°/0°~67°/0°~355°	0°~350°/0°~67°/0°~355°	0°~350°/0°~67°/0°~355°	0°~350°/0°~67°/0°~355°
IR Viewable Length	20m (65.62ft)	20m (65.62ft)	-	30m (98.43ft)
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Backlight Compensation	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)
Digital Noise Reduction	SSNR IV	SSNR IV	SSNR IV	SSNR IV
Motion detection	Support	Support	Support	Support
Privacy Masking	8 Zones	8 Zones	8 Zones	8 Zones
Alarm I/O	MD Output 1	-	-	MD Output 1
Protocol	AHD : ACP (AHD Coax Protocol), CVBS : Pelco-C (Coaxitron), CCP (CVI Coax Protocol), TCP (TVI Coax Protocol)	AHD : ACP (AHD Coax Protocol), CVBS : Pelco-C (Coaxitron), CCP (CVI Coax Protocol), TCP (TVI Coax Protocol)	AHD : ACP (AHD Coax Protocol), CVBS : Pelco-C (Coaxitron), CCP (CVI Coax Protocol), TCP (TVI Coax Protocol)	AHD : ACP (AHD Coax Protocol), CVBS : Pelco-C (Coaxitron), CCP (CVI Coax Protocol), TCP (TVI Coax Protocol)
Operating Temperature	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -10°C (+14°F)
Certification	-	-	-	IP66, IK10
Power Consumption	12VDC & 24VAC : Max 5.8W (HCD-6080R) 12VDC & 24VAC : Max 4.2W (HCD-6070R)	12VDC : Max 5.4W	12VDC : Max 3.6W	12VDC & 24VAC : Max 5.8W (HCV-6080R) 12VDC & 24VAC : Max 4.2W (HCV-6070R)
Dimensions (WxHxD) / Weight	Ø119.8 x 98.5mm (Ø4.72" x 3.88") 330g (0.73lb) (HCD-6080R) 320g (0.71lb) (HCD-6070R)	Ø110 x 86mm (Ø4.33" x 3.39") 320g (0.71lb)	Ø110 x 86mm (Ø4.33" x 3.39") 225g (0.49lb)	Ø137 x 106.1mm (Ø5.39" x 4.18") 725g (1.60lb) (HCV-6080R) 715g (1.58lb) (HCV-6070R)
Additional Features	Video transmission up to 500m (5C2V Coaxial Cable)	Video transmission up to 500m (5C2V Coaxial Cable)	Video transmission up to 500m (5C2V Coaxial Cable)	Video transmission up to 500m (5C2V Coaxial Cable)



SCB-6005  
1080p HD Box Camera



SCO-6085R  
1080p HD IR Bullet Camera



SCD-6085R  
1080p HD IR Dome Camera



SCV-6085R  
1080p HD IR Vandal Dome Camera

Imaging Device	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Resolution	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
Min. Illumination	Color: 0.04Lux (F1.2, 1/30sec) BW: 0.004Lux (F1.2)	Color: 0.11Lux (F1.6) B/W: 0Lux (IR LED on)	Color: 0.11Lux (F1.6, 1/30sec) BW: 0Lux (IR LED on)	Color: 0.11Lux (F1.6, 1/30sec) BW: 0Lux (IR LED on)
Focal Length	-	3.2~10mm (3.1x) manual varifocal	3.2~10mm (3.1x) varifocal	3.2~10mm (3.1x) varifocal
Angular Field of View	-	H: 110.2° (Wide) ~ 32° (Tele) V: 55.4° (Wide) ~ 18° (Tele) D: 128.4° (Wide) ~ 36.6° (Tele)	H: 110.2° (Wide) ~ 32° (Tele) V: 55.4° (Wide) ~ 18° (Tele) D: 128.4° (Wide) ~ 36.6° (Tele)	H: 110.2° (Wide) ~ 32° (Tele) V: 55.4° (Wide) ~ 18° (Tele) D: 128.4° (Wide) ~ 36.6° (Tele)
Pan / Tilt / Rotate	-	-	0°~ 350° / 0°~ 67° / 0°~ 355°	0°~ 350° / 0°~ 67° / 0°~ 355°
IR Viewable Length	-	30m (98.42ft)	20m (65.62ft)	30m (98.43ft)
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Backlight Compensation	BLC, HLC, DWDR	BLC, HLC, DWDR	BLC, HLC, DWDR	BLC, HLC, DWDR
Digital Noise Reduction	SSNR IV	SSNR IV	SSNR IV	SSNR IV
Motion detection	Support	Support	Support	Support
Privacy Masking	8 Zones	8 Zones	8 Zones	8 Zones
Alarm I/O	0 / 1	0 / 1	0 / 1	-
Protocol	ACP (AHD Coax Protocol) CVBS: Pelco-C (Coaxitron)	AHD: ACP (AHD Coax Protocol), CVBS: Pelco-C (Coaxitron)	ACP (AHD Coax Protocol) CVBS: Pelco-C (Coaxitron)	ACP (AHD Coax Protocol) CVBS: Pelco-C (Coaxitron)
Operating Temperature	-10°C ~ +55°C (+14°F ~ +131°F) / Less than 90% RH	-30°C ~ +55°C (-22°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F) / Less than 90% RH	-30°C ~ +55°C (+14°F ~ +131°F) / Less than 90% RH * Start up should be done at above -10°C
Certification	-	IP66, IK10	-	IP66, IK10
Power Consumption	AC 24V / 0.37A (Max 3.6W) DC 12V / 0.32A (Max 3.5W)	24VAC: Max 5.4W, typical 3.4W 12VDC: Max 5.4W, typical 3.4W	AC 24V / 0.45A DC 12V / 0.46A	AC 24V / 0.45A DC 12V / 0.46A
Dimensions (WxHxD) / Weight	W68.4 x H59.6 x D92.7mm (2.69" x 2.35" x 3.65") 186g (0.41lb)	Ø78 x 259.8mm (Ø3.07" x 10.23") 887g (1.95lb)	Ø119.8 x 98.5mm (Ø4.72" x 3.88") 320g (0.7lb)	Ø137 x 106.1mm (Ø5.39" x 4.18") 715g (1.57lb)
Additional Features	Defog	Defog	Defog	Defog



**HRX-1635**  
16CH 8MP Pentabrid Recorder



**HRX-1634**  
16CH 8MP Pentabrid Recorder



**HRX-1632**  
16CH 8MP Pentabrid Recorder



**HRX-835**  
16CH 8MP Pentabrid Recorder



**HRX-434**  
4CH 8MP Pentabrid Recorder

	HRX-1635 16CH 8MP Pentabrid Recorder	HRX-1634 16CH 8MP Pentabrid Recorder	HRX-1632 16CH 8MP Pentabrid Recorder	HRX-835 16CH 8MP Pentabrid Recorder	HRX-434 4CH 8MP Pentabrid Recorder
OS	Linux	Linux	Linux	Linux	Linux
Compression	H.264, H.265, MJPEG	H.264, H.265, MJPEG	H.264, H.265, MJPEG	H.264, H.265, MJPEG	H.264, H.265, MJPEG
Signal Type	Analog (AHD, TVI, CVI, CVBS) & N/W Camera	Analog (AHD, TVI, CVI, CVBS) & N/W Camera	Analog (AHD, HDTV, HDCVI, CVBS) & N/W Camera	Analog (AHD, TVI, CVI, CVBS) & N/W Camera	Analog (AHD, TVI, CVI, CVBS) & N/W Camera
Inputs	Analog 16CH, N/W Camera 2CH (up to 18CH)	Analog 16CH, N/W Camera 2CH (up to 18CH)	Analog 8CH, N/W Camera 2CH (up to 10CH)	Analog 8CH, N/W Camera 2CH (up to 10CH)	Analog 4CH, N/W Camera 6CH (up to 10CH)
Record Rate	8MP 8/8fps, 5MP 12/12fps, 4MP 15/12fps, 2MP 30/25fps NTSC/PAL *per CH	8MP 8/8fps, 5MP 12/12fps, 4MP 15/12fps, 2MP 30/25fps NTSC/PAL *per CH	8MP 8/8fps, 5MP 12/12fps, 4MP 15/12fps, 2MP 30/25fps NTSC/PAL *per CH	8MP 8/8fps, 5MP 12/12fps, 4MP 15/12fps, 2MP 30/25fps NTSC/PAL *per CH	8MP 8/8fps, 5MP 12/12fps, 4MP 15/12fps, 2MP 30/25fps NTSC/PAL *per CH
HDD Slot	SATA 8ea (Max 48TB)	SATA 2ea (Max 12TB)	SATA 4ea (Max 24TB)	SATA 4ea (Max 24TB)	Up to 1 SATA (Max 6TB)
Viewer Software	SSM, Webviewer, Wisenet Viewer, Smart Viewer, Wisenet mobile SUNAPI for integration to 3rd party VMS	SSM, WebViewer, Wisenet Viewer, SmartViewer, Wisenet Mobile	SSM, Webviewer, Smart Viewer, Wisenet mobile Support SDK/CGI (SUNAPI) for integration to 3rd party VMS	SSM, Webviewer, Smart Viewer, Wisenet mobile Support SDK/CGI (SUNAPI) for integration to 3rd party VMS	SSM, Webviewer, Smart Viewer, Wisenet mobile SUNAPI for integration to 3rd party VMS
Local Display	1 HDMI, 1 VGA (Dual Monitor)	1 HDMI, 1 VGA (Dual Monitor)	1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA
Audio In/Out	16 / 1	4 / 1	4 / 1	8 / 1	1 / 1
Alarm In/Out	16 / 4	16 / 4	4 / 2	8 / 4	4 / 1
N/W Camera Support	SUNAPI, ONVIF	SUNAPI, ONVIF	SUNAPI, ONVIF	SUNAPI, ONVIF	SUNAPI, ONVIF
Additional Features	Easy configuration (Setup Wizard, P2P (QR Code)) Coaxial Control support (CVBS and AHD/CVI/TVI) RS-485 USB (2ports)	Easy configuration (Setup Wizard, P2P (QR Code)) Coaxial Control support (CVBS and AHD/CVI/TVI) RS-485 USB (3ports)	Easy configuration (Setup Wizard, P2P (QR Code)) Coaxial Control support (CVBS and AHD/CVI/TVI) RS-485 USB (2ports)	Easy configuration (Setup Wizard, P2P (QR Code)) Coaxial Control support (CVBS and AHD/CVI/TVI) RS-485 USB (2ports)	Easy configuration (Setup Wizard, P2P (QR Code)) Coaxial Control support (CVBS and AHD/CVI/TVI) RS-485 USB (2ports)

# Monitor



**SMT-4343** 43" LED Monitor   
 **SMT-3234** 32" LED Monitor   
 **SMT-2431** 24" LED Monitor   
 **SMT-2212** 22" LED Monitor   
 **SMT-1935** 19" LED Monitor   
 **SMT-1914** 19" LED Monitor   
 **SMT-3230PV** 32" PVM   
 **SMT-3211PVM / 3211PVM-PIP** 32" PVM   
 **SMT-2701PVM** 27" PVM   
 **SMT-1030PV** 10" PVM

Screen Size	43"	32"	24"	22"	19"	19"	32" LED backlight	32"	27" LED	10.1" LED backlight
Max. Resolution	3840 x 2160	1920 x 1080	1920 x 1080	1920 x 1080	1280 x 1024	1280 x 1024	1920 x 1080	1920 x 1080	1920 x 1080	1024 x 600
Brightness	300 cd/m <sup>2</sup>	300 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	300 cd/m <sup>2</sup>	300 NIT	300 cd/m <sup>2</sup>	500 cd/m <sup>2</sup>
Contrast Ratio	1000:1	2250:1	4000:1	3000:1	1000:1	1000:1	1200:1	1200:1	3000:1	500:1
Aspect Ratio	16:9	16:9	16:9	16:9	4:3	4:3	16:9	16:9	16:9	16:9
Viewing Angle(H/V)	178°/178°	178°/178°	178°/178°	178°/178°	170°/160°	170°/160°	178°/178°	178°/178°	178°/178°	140°/120°
Response Time	8.5ms	8ms	14ms	6.5ms	5ms	5ms	8ms	8ms	12ms	20ms
Interface	HDMI (1), DP (1)	HDMI (1),VGA (1),DVI (1), BNC(1)	HDMI (1),VGA (1)	HDMI(1),VGA(1)	HDMI (1),VGA (1), BNC (2)	VGA (1)	HDMI(1)	HDMI (1),VGA (1),HDMI PIP(1)	HDMI (1),VGA (1)	-
Audio In/Out	-/1	-/1	-/-	-/-	2/-	-/-	-/-	Stereo mini jack	Stereo mini jack	-/-
Built-in Speakers	Yes	Yes	-	-	Yes	Yes	-	Yes	Yes	Yes
VESA Mount(mm)	100*100/400*200	100*100	100*100	100*100	100*100	100*100	100*100	100*100	100*100	75*75
Power	100V ~ 240V AC	100V ~ 240V AC	100V ~ 240V AC	DC 12V 5A	100V ~ 240V AC	100V ~ 240V AC	DC12V 5.1A	Max 55W	Max 45W	PoE+ 48V 0.28A 13.44W, DC12V 1A
Stand	Optional	Optional	Yes	Yes	Yes	Yes	Optional	Optional	Optional	Optional
Tempered Glass Screen	-	-	-	-	Yes	Yes	Yes	Glare reduction coating	Yes	Yes
Additional Features	Remote Controller	Remote Controller	-	-	-	-	-	-	-	-

# Controller



**SPC-2001**  
Network Controller



**SPC-2010**  
PTZ / DVR System Controller



**SPC-1010**  
PTZ Control Keyboard

Features	<ul style="list-style-type: none"> <li>• Superior system control of PTZ cameras with Wisenet WAVE VMS, Wisenet Viewer CMS, or NVR/DVR</li> <li>• 3D joystick control</li> <li>• Quick and easy installation with USB connection</li> </ul>	<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>	<ul style="list-style-type: none"> <li>• Control up to 255 PTZ Cameras</li> <li>• Multi Protocols Supports</li> <li>• OSD Menu, 3D Joystick Control</li> <li>• RS-485 and RS-422 Interface</li> </ul>
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NETWORK

ANALOG

PERIPHERAL

ACCESSORY

Lens

Model	Image	Mount	Image Format	Resolution	Focal Length	Back Focal Length	Zoom Ratio	F. No	Angle of View	Operation			Dimensions W x H x D (mm / inch)	Weight (g / lb)																
										Iris	Focus	Zoom																		
SLA-T-M940DN			-	<p>True 4K, Up to 12Megapixel Check sensor size below</p> <table border="1"> <thead> <tr> <th>Sensor size</th> <th>1/3"</th> <th>1/2.7"</th> <th>1/2.5"</th> </tr> </thead> <tbody> <tr> <td>FoV (H)</td> <td>30° - 7.1°</td> <td>37° - 8.6°</td> <td>36° - 8.5°</td> </tr> <tr> <td>FoV (V)</td> <td>22° - 5.3°</td> <td>20° - 4.8°</td> <td>27° - 6.3°</td> </tr> <tr> <td>FoV (D)</td> <td>38° - 8.8°</td> <td>42° - 9.9°</td> <td>46° - 10.6°</td> </tr> </tbody> </table>	Sensor size	1/3"	1/2.7"	1/2.5"	FoV (H)	30° - 7.1°	37° - 8.6°	36° - 8.5°	FoV (V)	22° - 5.3°	20° - 4.8°	27° - 6.3°	FoV (D)	38° - 8.8°	42° - 9.9°	46° - 10.6°	9-40mm	-	5.9	F1.5	check chart under Resolution				W49.3mm	-
Sensor size	1/3"	1/2.7"	1/2.5"																											
FoV (H)	30° - 7.1°	37° - 8.6°	36° - 8.5°																											
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FoV (D)	38° - 8.8°	42° - 9.9°	46° - 10.6°																											
SLA-M2890DN		CS								DC																				
			1/2.8"	3Megapixel	2.8~9mm (0.11"~0.35")	7.5~15.9mm (0.3"~0.63")	3.2	1.2	134.2°~42.7°		Manual	Manual	W45xH51.5xD54.3mm (1.77"x2.03"x2.14")	84g (0.19lb)																
SLA-M2890PN										P-Iris				82.1g (0.18lb)																



# Wisenet ToolBox Plus

GO TO WISENET TOOLBOX PLUS

Click the Wisenet Toolbox Plus on [HanwhaVisionAmerica.com](http://HanwhaVisionAmerica.com)

Choose product you are interested in

Select region and language

2 Network camera

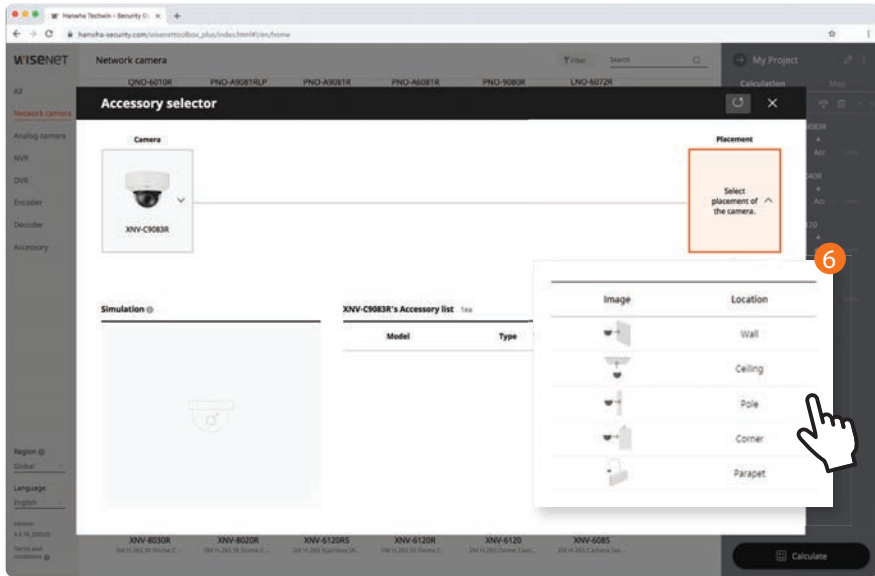
3 Region  
Global  
Language  
English

4 My Project  
Calculation  
Map

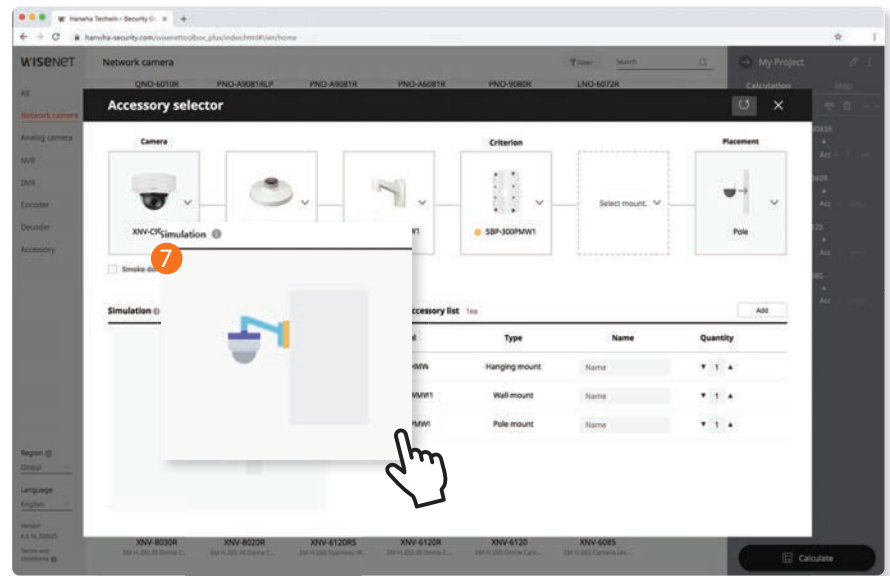
When you select cameras, they will be added on My Project

5 Acc

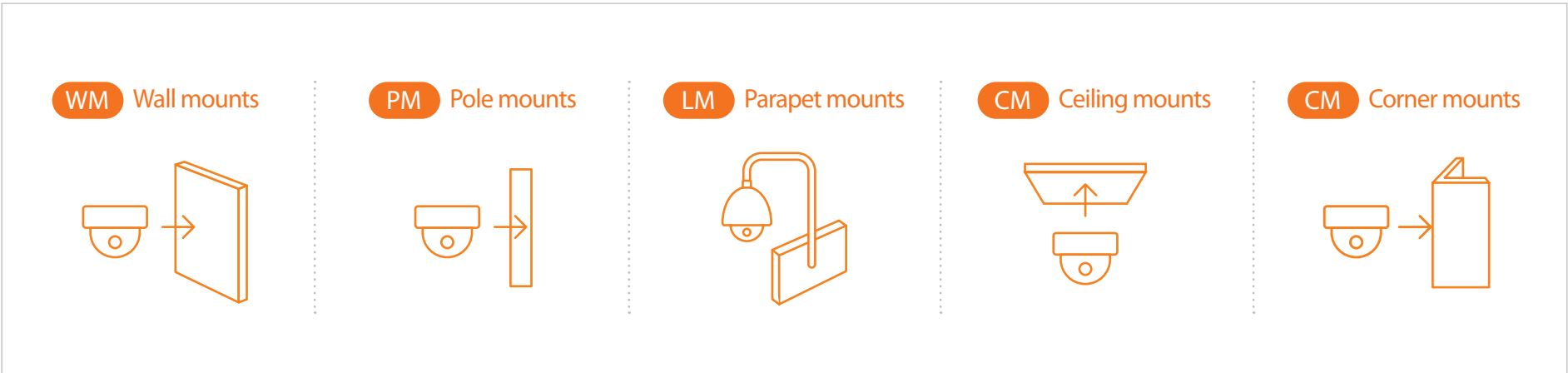
Click the Acc to find compatible accessories



Accessory Selector pops up. All compatible accessories are shown



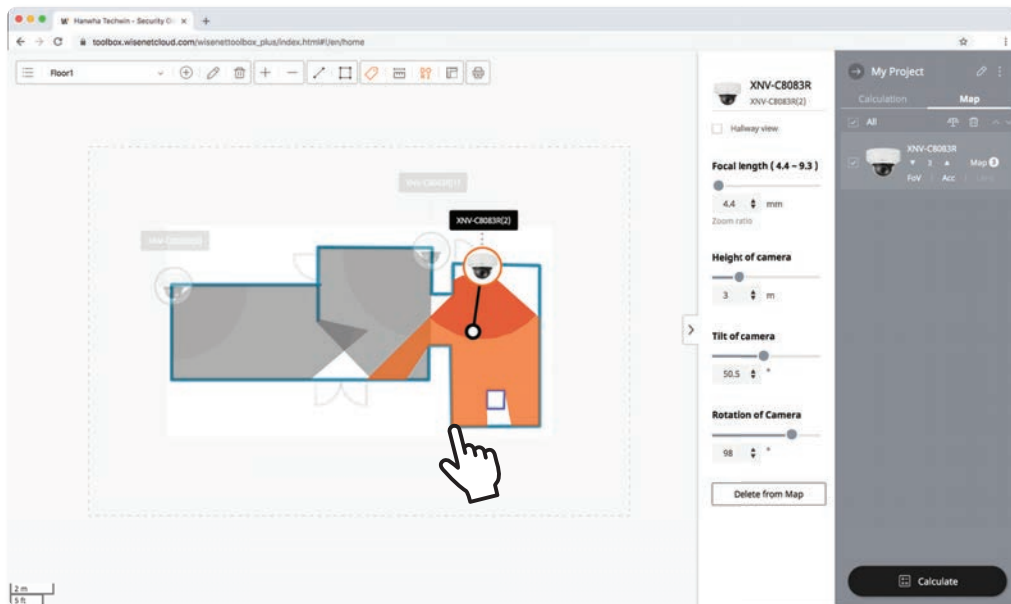
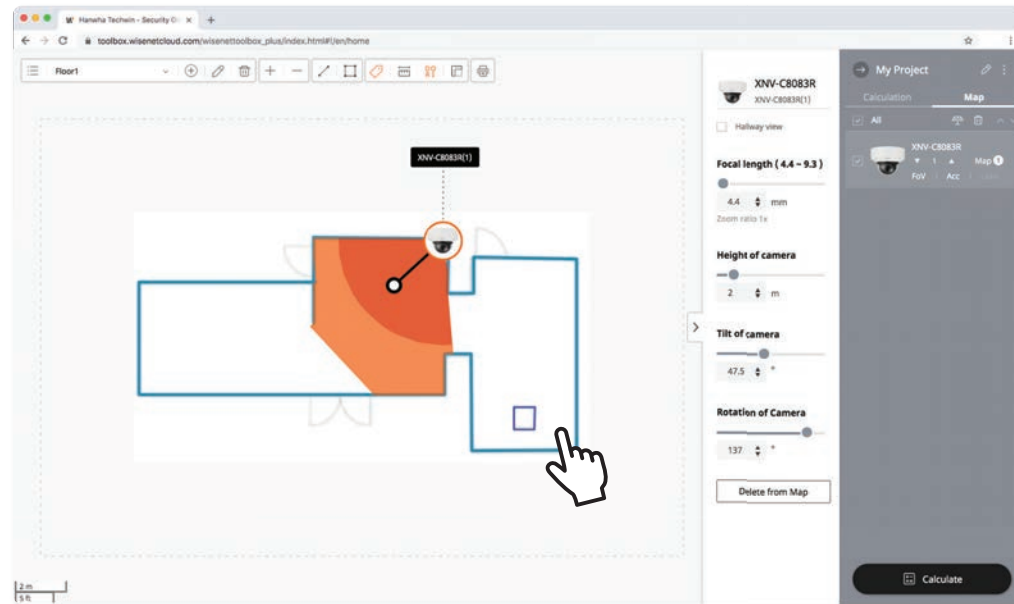
Choose accessories then the simulation intuitively shows all connected accessories





## Newly updated in Toolbox Plus: Simulate on the map

Toolbox Plus helps you simulate the best place for installing cameras.



By uploading your map to Toolbox plus, you can test how much cameras can cover in your own space.

It can guide you on how to compose and install cameras to minimize blind spots in advance.

MEMO

MEMO



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