Hanwha Techwin

WISENET

Product line-up

2021

HanwhaSecurity.com

Hanwha Group

Founded in 1952, Hanwha is a Fortune Global 500 company and the 7th largest business group in Korea, with 76 domestic affiliates and 351 global networks around the world.

Hanwha's business scope covers aerospace and mechatronics, chemicals and materials, solar energy, finance, service and leisure and construction. By integrating our growing number of affiliate enterprises worldwide, Hanwha is harnessing the power of sustainable, quality growth to continually increase the value we bring to customers.

Products & Services

Aerospace & Mechatronics

Hanwha Corporation
(Machinery / Explosives)
Hanwha Aerospace
Hanwha Techwin
Hanwha Systems
Hanwha Defense
Hanwha Power Systems
Hanwha Precision Machinery

Solar Energy

Hanwha Q CELLS
Hanwha Energy
Hanwha Solar Power

Services & Leisure

Hanwha Hotels & Resorts
Hanwha Galleria
Hanwha Galleria Timeworld
Hanwha 63 City
Hanwha Station Development

Chemicals & Materials

Hanwha Chemical
Hanwha Total Petrochemical
Hanwha Advanced Materials
Hanwha General Chemical
Yeochun NCC

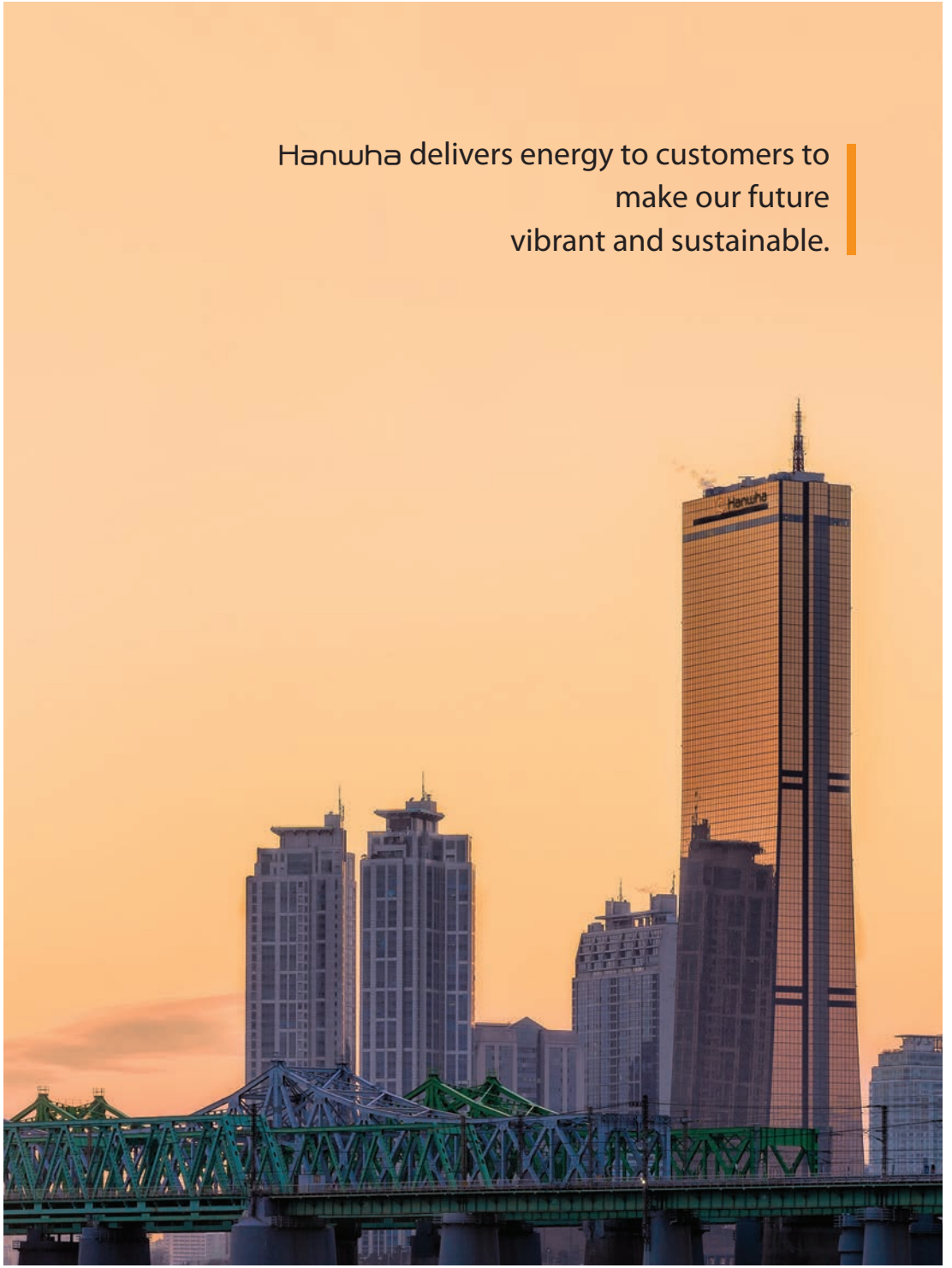
Finance

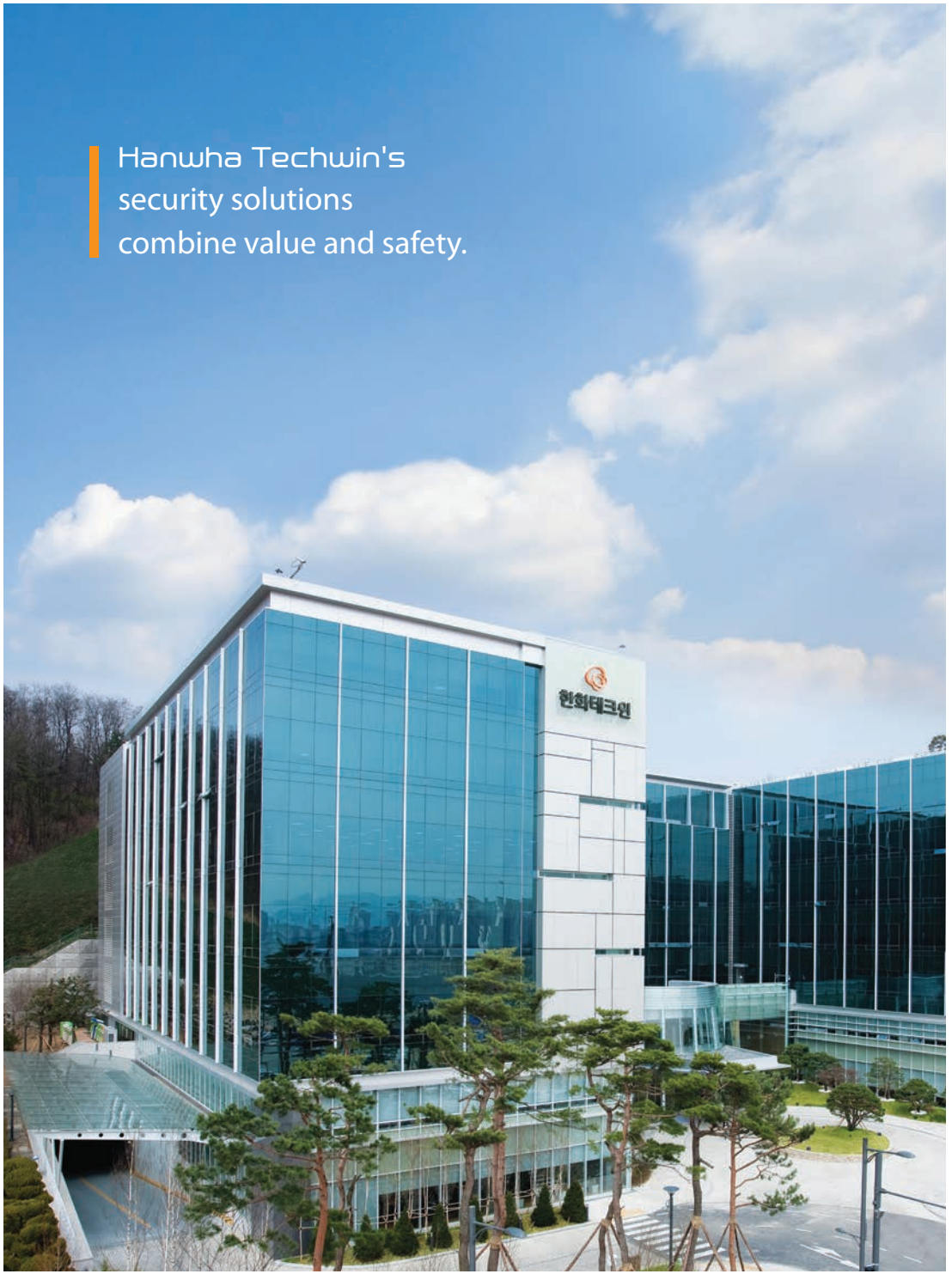
Hanwha Investment & Securities
Hanwha Life
Hanwha General Insurance
Hanwha Asset Management
Hanwha Savings Bank

Construction

Hanwha Engineering & Construction
Hanwha City Development

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





Hanwha Techwin's
security solutions
combine value and safety.

A leading global security company, Hanwha Techwin has continually built its video surveillance expertise based on world-class optical, manufacturing and image processing technologies since the launch of our first surveillance camera in 1991.

We are leading the market by taking advantage of next-generation technologies, such as Deep Learning, Artificial Intelligence (AI) and Business Intelligence (BI). We are also able to offer solutions tailored to meet the requirements of a diverse range of vertical markets.
By offering cybersecurity that customers can trust, we are growing as a total security solutions provider, delivering high satisfaction, value and real-life practical benefits.

Hanwha Techwin will continually strengthen its development and marketing investments in the security business to drive future growth.

History

2010 ~ Current

- **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
- **2012** - Winner of Red Dot Design, CES Innovation Award
- **2012** - World's first 37X IR PTZ camera launched
- **2011** - B2C business launched

1991 ~ 2009

- **2009** - Hanwha Techwin Tianjin and Shanghai subsidiaries established
- **2008** - Korea's first 37X optical AF PTZ camera launched
- **2004** - Wisenet 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
- **1991** - Video surveillance business established

Engineered in Korea

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

Core Technologies

Hanwha Techwin's competitive advantage is based on established optical and image-processing technologies, and in the development of System on Chip (SoC) technologies.
As technologies become more advanced and security solutions are leveraged across all aspects of business and life, the role of security goes beyond just monitoring. It is now being applied in many ways to fulfill the growing market demand for built-in analytics and intelligent device functionality.

To provide an agile response to changing market trends, Hanwha Techwin will strive to achieve technological advancement by continuing to develop Deep-Learning and AI solutions.

01. Optical design technology

Our Wisenet series of high-precision, high-resolution cameras are based on world-class optical and image processing technologies.

02. SoC design technology

Hanwha Techwin designs and builds its SoC's (System on Chip) at its own manufacturing facilities. The latest generation, Wisenet 7, is our most technology-intensive, innovative and feature-rich SoC.

03. Intelligent Analytics technology

Hanwha Techwin provides exclusive solutions for business intelligence as a result of its unique analytics algorithms.

Based on its solid core technologies, Hanwha Techwin strengthens its competitive edge by harnessing innovative technologies.

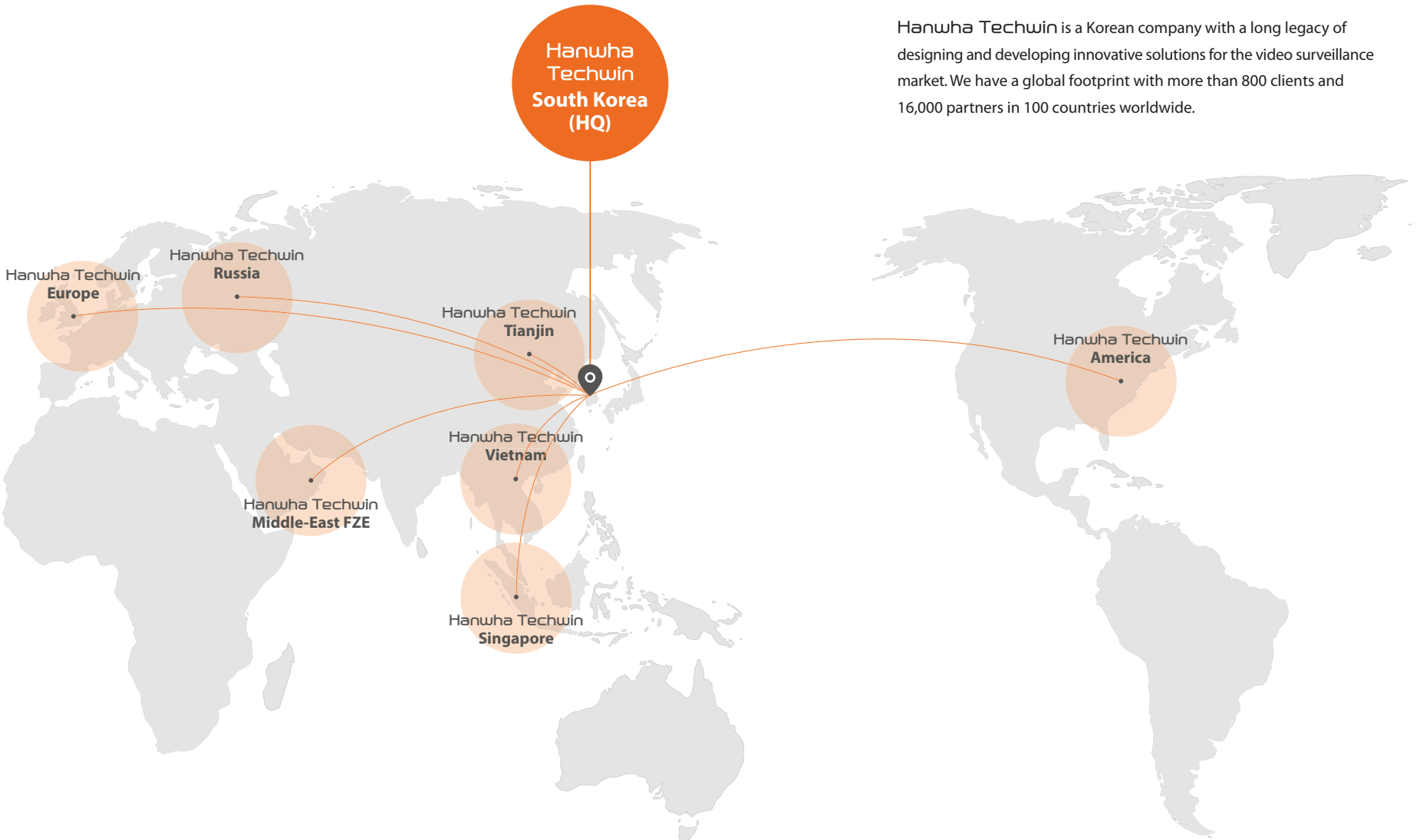
High-tech Powered in Vietnam

Hanwha Techwin's manufacturing subsidiary in Vietnam (HTSV) has been in operation since 2018 to expand its global production capabilities and increase cost-competitiveness. Through automation and "smart" systems, Hanwha Techwin has built sophisticated and fast-moving manufacturing processes to produce all its product lines including cameras and storage devices.

All products manufactured in HTSV go through a rigorous quality assurance process. These globally sold products represent 75% of Hanwha Techwin's total sales.

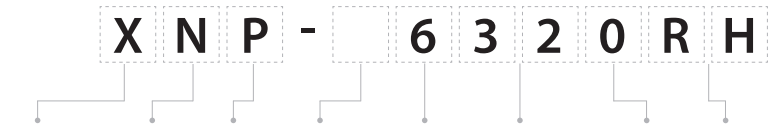
Hanwha Techwin **Global network**

Hanwha Techwin is a Korean company with a long legacy of designing and developing innovative solutions for the video surveillance market. We have a global footprint with more than 800 clients and 16,000 partners in 100 countries worldwide.



PRODUCT NAMING RULE

Camera



Series Name
P : Premium (4K/AI)
X : Versatile (WN5)
Q : Quality (Entry)
H : Advanced (AHD)
T : Vertical (Special)
S : Legacy (Existing)
L : Low cost

Product Type
N : Network cam
C : Analog cam
U : UTP Camera

Shape
B : Box
D : Dome
F : Fisheye
M : Multi-Sensor
O : Bullet
P : PTZ
U : Positioning
V : Vandal
Z : Zoom box
E : Flateye

Grade
Null : Basic
E : Entry
L : Lite
A : AI

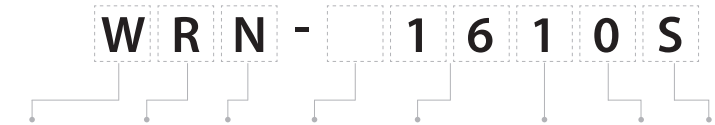
Total Resolution
1 : ~ VGA
2 : BLC CCD
3 : WDR CCD
4 : SVGA, 1/2"
5 : 1MP
6 : 2MP
7 : 3MP ~ 4MP
8 : 5MP ~ 7MP
9 : 8MP ↑

Lens
00 : No Lens
01 : 3mm ↓ fixed
02 : 3.1 ~ 4mm fixed
03 : 4.1 ~ 6mm fixed
04 : 6.1 ~ 9.9mm fixed
05 : 10mm ↑ fixed
06 : 2X V/F
07 : 2X ~ 9X V/F
08 : 2X ~ 9X M-V/F
09 : 10X ↑ V/F
Xx : Zoom (PTZ, Zoom)

Version
0 ~ 9

Feature
A : Revision
B : Black Color
C : Counting or CVBS
E : Explosion Proof
F : Flush
H : Housing
M : Mobile
(M-12 connector)
Q : Quad eye
D : Dual eye
R : IR
S : Stainless Steel
T : Thermal
V : Vandal
W : White color, Wiper
G : Government
Z : PTRZ

Recorder



Series Name
P : Premium
X : Versatile
Q : Quality (16ch ↓)
H : Advanced (AHD)
T : Vertical (Special)
S : Legacy (Existing)
W: WAVE NVR

Product Type
R : Recorder

Shape
D : DVR
X : Hybrid
M : Mobile
N : NVR

Grade
Null : Basic

Channel / Mbps
[~ 16ch : Max CH]
4 : 4CH
8 : 8CH
16 : 16CH

[32ch ~ : Max Mbps]
10 : 100 ~ 199Mbps
20 : 200 ~ 299Mbps
30 : 300 ~ 399Mbps
40 : 400 ~ 499Mbps
50 : 500 ~ 599Mbps
60 : 600 ~ 699Mbps

Major Version
[HD DVR]
1 : SD
2 : Up to 720p
3 : Up to 1080p
4 : Up to 5MP
5 : Up to 8MP

[NVR]
0 ~ 9 : Major Version

MinorVersion
0 ~ 9

Function
Null : Null
A: Revision
C : Coaxial
D : DVD
S : PoE Switch
U : UTP
M : PoE Switch with
M12 Connector

Monitor

Series Name
S : Legacy (Existing)

Product Type
M : Monitor

Appearance
T : LED

Grade
Null : Default

Panel Size
Inch

Input
0 : BNC
1 : VGA
2 : VGA + BNC
3 : etc.

Version
0 ~ 9

Function
Null : Normal
N : N/W

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WISENET AI cameras

Our Wisenet AI camera lineup uses a powerful Artificial Intelligence (AI) engine which can detect and classify the varying attributes of objects, including people, vehicles, faces and license plates.

This enables operators to use AI applications running on a back-end server for faster searching and deeper information analysis.
It can also significantly reduce false alarms caused by waving trees, video noise and even moving shadows.

AI Camera Series

- 4K PNO-A9081R, PNV-A9081R, PND-A9081RV/A9081RF, PNB-A9001
- 2MP PNO-A6081R, PNV-A6081R, PND-A6081RV /A6081RF, PNB-A6001

"Coming soon"

Camera X series

	XNB-9002 4K Box Camera	**XNB-8002** 6MP Network Box Camera	**XNB-8000** 5MP Box Camera	**XNO-9082R** 4K IR Bullet Camera	**XNO-8082R** 6MP Network IR Bullet Camera
Imaging Device	1/2.8" 4K CMOS	1/2.8" CMOS	1/1.8" 6MP CMOS	1/2.8" CMOS	1/2.8" CMOS
Min. Illumination	Color : 0.05Lux (F1.2) B/W : 0.005Lux (F1.2)	Color : 0.05Lux (F1.2, 1/30sec) B/W : 0.005Lux	Color : 0.07Lux (F1.2) B/W : 0.007Lux (F1.2)	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)
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	-	-	-	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: 62.0°(Wide)~22.5°(Tele) / D:133.0°(Wide)~46.3°(Tele)	H: 114°(Wide)~40.2°(Tele) / V: 62.0°(Wide)~22.5°(Tele) / D:133.0°(Wide)~46.3°(Tele)
Pan / Tilt / Rotate	-	-	-	-	-
IR Viewable Length	-	-	-	40m (131.23ft)	40m (131.23ft)
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	extreme WDR 120dB	extreme WDR 120dB	120dB	extreme WDR 120dB	extreme WDR 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, Shock detection, Face / uppder body detection	Intelligent analytics, Audio detection, Sound classification, Shock detection, Face / uppder body detection	Intelligent analytics Audio detection Sound classification	Intelligent analytics, Audio detection, Sound classification, Shock detection, Face / uppder body detection	Intelligent analytics, Audio detection, Sound classification, Shock detection, Face / uppder body detection
Business Intelligence	People counting, Queue management, Heatmap	People counting, Queue management, Heatmap	-	People counting, Queue management, Heatmap	People counting, Queue management, Heatmap
Alarm I/O	2 / 2	2 / 2	1 / 1	2 / 2	2 / 2
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) / 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	4K / 30fps	6MP / 30fps	5MP / 30fps	4K / 30fps	6MP / 30fps
WiseStream	WiseStream II	WiseStream II	WiseStream II	WiseStream II	WiseStream II
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/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	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-50°C ~ +60°C (-58°F ~ +140°F)	-50°C ~ +60°C (-58°F ~ +140°F) * Start up above -30°C
Certification	-	-	-	IP67/IP66/NEMA4X, IK10	IP67/IP66/NEMA4X, IK10
Power Consumption	PoE : Max 12.95W 12VDC : Max 11.5W 24VAC : Max 13.5W	PoE : Max 12.95W 12VDC : Max 11.5W 24VAC : Max 13.5W	PoE : Max 8.50W 12VDC : Max 7.50W 24VAC : Max 8.50W	PoE : Max 12.95W 12VDC : Max 12.5W 24VAC : Max 14.5W	PoE : Max 12.95W 12VDC : Max 12.5W 24VAC : Max 14.5W
Dimensions (WxHxD) / Weight	Ø81 x 67 x 165mm (Ø3.19" x 2.64" x 6.48") 0.88kg (1.94lb)	Ø81 x 67 x 165mm (Ø3.19" x 2.64" x 6.48") 0.88kg (1.94lb)	Ø73.1 x 66.6 x 147.8mm (Ø2.88" x 2.62" x 5.82") 420g (0.93lb)	Ø91.0 x 368.6mm (Ø3.85" x 14.51") 2.2Kg (4.85lb)	Ø91.0 x 368.6mm (Ø3.85" x 14.51") 2.2kg (4.85lb)
Additional Features	Handover, Hallway View	Handover, Hallway View	Handover, Hallway View	Handover, Hallway View	Handover, Hallway View

			X PLUS PTRZ	X PLUS PTRZ	X PLUS
	XNO-8080R 5MP IR Bullet Camera	**XNO-8020R/8030R/8040R** 5MP IR Bullet Camera	**XND-8081VZ** 5MP Dome Camera	**XND-8081FZ** 5MP Flush Mount Dome Camera	**XND-8081RV** 5MP IR Dome Camera
Imaging Device	1/1.8" 5MP CMOS	1/1.8" 5MP CMOS	1/1.8" 6MP CMOS	1/1.8" 6MP CMOS	1/1.8" 6MP 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 (F1.2) B/W : 0.007Lux (F1.2)	Color : 0.07Lux (F1.2) B/W : 0.007Lux (F1.2)	Color : 0.07Lux (F1.3) B/W : 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	CVBS 1.0 Vp-p, 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)	3.6 ~ 9.4mm (2.6x) motorized varifocal	3.6 ~ 9.4mm (2.6x) motorized varifocal	3.9 ~ 9.4mm (2.4x) motorized varifocal
Angular Field of View	H : 100.2°(Wide) ~ 38.7°(Tele) / V : 67.2°(Wide) ~ 29.0°(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 : 102.5°(Wide) ~ 38.7°(Tele) / V : 74.2°(Wide) ~ 29.0°(Tele) / D : 135.5°(Wide) ~ 48.6°(Tele)	H : 102.5°(Wide) ~ 38.7°(Tele) / V : 74.2°(Wide) ~ 29.0°(Tele) / D : 135.5°(Wide) ~ 48.6°(Tele)	H : 92.1°(Wide) ~ 38.7°(Tele) / V : 67.2°(Wide) ~ 29.0°(Tele) / D : 119.9°(Wide) ~ 48.6°(Tele)
Pan / Tilt / Rotate	-	-	±175° / 0 ~ 85° / ±175° (Remote)	±175° / 0 ~ 85° / ±175° (Remote)	0° ~ 360° / -45° ~ 85° / 0° ~ 355°
IR Viewable Length	50m (164.04ft)	30m (98.43ft)	-	-	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	Support	Support (Built-in Gyro sensor)	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 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	-	People counting, Queue management, Heatmap	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	1 / 1
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) / 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	5MP / 30fps	5MP / 30fps	5MP / 30fps
WiseStream	WiseStream II	WiseStream II	WiseStream II	WiseStream II	WiseStream II
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	-40°C ~ +55°C (-40°F ~ +131°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -20°C	-25°C ~ +60°C (-13°F ~ +140°F)	-25°C ~ +60°C (-13°F ~ +140°F)	-50°C ~ +60°C (-58°F ~ +140°F) * Start up above -35°C (-31°F)
Certification	IP67, IP66, NEMA4X, IK10	IP67/IP66/NEMA4X, IK10	IP52, IK10	IP52, Plenum rated	IP52, IK10
Power Consumption	PoE : Max 12.95W 12VDC : Max 12.5W 24VAC : Max 14.5W	PoE : Max 10.3W 12VDC : Max 9.3W	PoE : Max 11W 12VDC : Max 9W	PoE : Max 11W 12VDC : Max 9W	PoE : Max 12.95W 12VDC : Max 11.7W
Dimensions (WxHxD) / Weight	Ø91.0 x 368.6mm (Ø6.3" x 4.67") 2.18Kg (4.81lb)	Ø70.0 x 296mm (Ø2.76" x 11.65") 1.22kg (2.69lb)	Ø160 x 125mm (Ø6.30" x 4.92") 1.45kg (3.20lb)	Ø205 x 155mm (Ø8.07" x 6.10") 1.85kg (4.08 lb)	Ø160 x 125mm (Ø6.30" x 4.92") 1.45kg (3.20 lb)
Additional Features	Handover, Hallway View	Handover, Hallway View	Modular structure, Motorized PTRZ, Anti dust	Modular structure, Motorized PTRZ, Anti dust	Modular structure, Anti dust

Camera X series

	X PLUS NEW **XND-9082RF** 4K Network IR Dome Camera	X PLUS NEW **XND-8082RF** 6MP Network IR Dome Camera	X PLUS **XND-8081RF** 5MP IR Flush Mount Dome Camera	X PLUS NEW **XND-9082RV** 4K IR Indoor Dome Camera	X PLUS NEW **XND-8082RV** 6MP IR Indoor Dome Camera
Imaging Device	1/2.8" CMOS	1/2.8" CMOS	1/1.8" 6MP 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 : 0.07Lux (F1.3) 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)
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 1.0Vp-p, Micro USB type B
Focal Length	2.8 ~ 8.4mm (3x) motorized varifocal	2.8 ~ 8.4mm (3x) motorized varifocal	3.9 ~ 9.4mm (2.4x) motorized varifocal	2.8 ~ 8.4m (3x) motorized varifocal	2.8 ~ 8.4m (3x) motorized varifocal
Angular Field of View	H : 114˚(Wide) ~ 40.2˚(Tele) / V : 62.0˚(Wide) ~ 22.5˚(Tele) / D : 133.0˚(Wide) ~ 46.3˚(Tele)	H : 114˚(Wide) ~ 40.2˚(Tele) / V : 62.0˚(Wide) ~ 22.5˚(Tele) / D : 133.0˚(Wide) ~ 46.3˚(Tele)	H : 92.1˚(Wide) ~ 38.7˚(Tele) / V : 67.2˚(Wide) ~ 29.0˚(Tele) / D : 119.9˚(Wide) ~ 48.6˚(Tele)	H : 114˚(Wide) ~ 40.2˚(Tele) / V : 62.0˚(Wide) ~ 22.5˚(Tele) / D : 133.0˚(Wide) ~ 46.3˚(Tele)	H : 114˚(Wide) ~ 40.2˚(Tele) / V : 62.0˚(Wide) ~ 22.5˚(Tele) / D : 133.0˚(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˚	0˚ ~ 360˚ / -45˚ ~ 85˚ / 0˚ ~ 355˚	0° ~ 354° / -45° ~ 85°/ 0° ~ 355°
IR Viewable Length	40m (131.23ft)	40m (131.23ft)	50m (164.04ft)	40m (131.23ft)	40m (131.23ft)
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	extreme WDR 120dB	extreme WDR 120dB	120dB	extreme WDR 120dB	extreme WDR 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, Shock detection, Face / uppder body detection	Intelligent analytics, Audio detection, Sound classification, Shock detection, Face / uppder body detection	Intelligent analytics Audio detection Sound classification Audio Playback Shock detection	Intelligent analytics, Audio detection, Sound classification, Shock detection, Face / uppder body detection	Intelligent analytics Audio detection Sound classification
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 / 2	2 / 2	1 / 1	2 / 2	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	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	4K / 30fps	6MP / 30fps	5MP / 30fps	4K / 30fps	5MP / 30fps
WiseStream	WiseStream II	WiseStream II	WiseStream II	WiseStream II	WiseStream II
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)	-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, Plenum rated, IK10	IP52, Plenum rated, IK10	IP52, Plenum rated	IP52, IK10	IP52, IK10
Power Consumption	PoE : Max 12.95W 12VDC : Max 11.5W	PoE : Max 12.95W 12VDC : Max 11.5W	PoE : Max 12.95W 12VDC : Max 11.7W	PoE : Max 12.95W 12VDC : Max 11.5W	PoE : Max 12.95W 12VDC : Max 11.5W
Dimensions (WxHxD) / Weight	Ø205 x 163mm (Ø8.07" x 6.42") 1.95kg (4.29 lb)	Ø205 x 163mm (Ø8.07" x 6.42") 1.95kg (4.29 lb)	Ø205 x 155mm (Ø8.07" x 6.10") 1.80kg (3.97 lb)	Ø160 x 125mm (Ø6.30" x 4.92") 1.6kg (3.53lb)	Ø160 x 125mm (Ø6.30" x 4.92") 1.6kg (3.53lb)
Additional Features	Modular structure, PoE support	Modular structure, PoE support	Modular structure, Anti dust	Modular structure, PoE support	Modular structure, PoE support

		X PLUS NEW			X PLUS NEW
	XND-8080RV 5MP IR Dome Camera	**XND-8081REV** 5MP IR PoE Extender Dome Camera	**XND-8020R/8030R/8040R** 5MP IR Dome Camera	**XND-8020F** 5MP Flush Mount Dome Camera	**XNV-9082R** 4K IR Outdoor Vandal Dome Camera
Imaging Device	1/1.8" 5MP CMOS	1/1.8" 6MP CMOS	1/1.8" 6MP CMOS	1/1.8" 6MP CMOS	1/2.8" 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 : 0.16Lux (F1.6) B/W : 0.16Lux (F1.6)	Color : 0.05 Lux (F1.2) B/W : 0 Lux (IR LED On)
Video Output	CVBS 1.0 Vp-p, Micro USB type B	CVBS 1.0 Vp-p, Micro USB Type B	CVBS 1.0Vp-p, Micro USB type B	Micro USB type B	CVBS 1.0 Vp-p, Micro USB Type B
Focal Length	3.9 ~ 9.4m (2.4x) motorized varifocal	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	2.8~8.4mm(3x) motorized varifocal
Angular Field of View	H : 92.1˚(Wide) ~ 38.7˚(Tele) / V : 67.2˚(Wide) ~ 29.0˚(Tele) / D : 119.9˚(Wide) ~ 48.6˚(Tele)	H : 92.1˚(Wide) ~ 38.7˚(Tele) / V : 67.2˚(Wide) ~ 29.0˚(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°	H : 114˚(Wide) ~ 40.2˚(Tele) / V : 62.0˚(Wide) ~ 22.5˚(Tele) / D : 133.0˚(Wide) ~ 46.3˚(Tele)
Pan / Tilt / Rotate	0˚ ~ 354˚ / 0˚ ~ 67˚ / 0˚ ~ 355˚	0˚ ~ 360˚ / -45˚ ~ 85˚ / 0˚ ~ 355˚	0° ~ 354° / 0° ~ 67°/ 0° ~ 355°	0°~355°/ 0°~47°/ 0°~353°	0°~360°/ -45°~85°/ 0°~355°
IR Viewable Length	30m (98.43ft)	50m (164.04ft)	30m (98.43ft)	-	40m (131.23ft)
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (Electrical)	Auto (ICR)
Wide Dynamic Range	120dB	120dB	120dB	-	extreme WDR 120dB
Digital Noise Reduction	SSNRV	SSNRV	SSNRV	SSNRV	SSNRV
Digital Image Stabilization	Support	Support (Built-in Gyro sensor)	Support (Built-in Gyro sensor)	Support	Support (Built-in Gyro sensor)
Analytics	Intelligent analytics Audio detection Sound classification	Intelligent analytics Audio detection Sound classification Audio Playback Shock detection	Intelligent analytics Audio detection Sound classification	Intelligent analytics Audio detection Sound classification	Intelligent analytics, Audio detection, Sound classification, Shock detection, Face / uppder body detection
Business Intelligence	-	People counting, Queue management, Heatmap	People counting, Queue management, Heatmap	People counting, Queue management, Heatmap	People counting, Queue management, Heatmap
Alarm I/O	1 / 1	1 / 1	1 / 1	-	2 /2
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	Built-in mic / -	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	4K / 30fps
WiseStream	WiseStream II	WiseStream II	WiseStream II	WiseStream II	WiseStream II
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	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, SUNAPI, Wisenet open platform	ONVIF profile S/G, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform
Operating Temperature	-10°C ~ +55°C (+14°F ~ +131°F)	-25°C ~ +60°C (-13°F ~ +140°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-50°C ~ +60°C (-58°F ~ +140°F) * Start up above -30°C
Certification	IK08	IP52, IK10	IK08	-	IP67, IP66, IP6K9K, IK10+, NEMA4X
Power Consumption	PoE : Max 10W 12VDC : Max 9W	Main camera + Extension camera: Max 25.5W PoE : Max 12.95W	PoE : Max 9W 12VDC : Max 8W	PoE : Max 4.7W	PoE : Max 12.95W 12VDC : Max 11.5W 24VAC : Max 13.5W
Dimensions (WxHxD) / Weight	Ø140.8 x 113.0mm (Ø5.54" x 4.45") 732g (1.61lb)	Ø160 x 125mm (Ø6.30" x 4.92") 1.45kg (3.20 lb)	Ø110.0 x 90.0mm (Ø4.33" x 3.54") 380g (0.84lb)	Ø98.9 x 129.1mm (Ø3.89" x 5.08") 275g (0.61lb)	Ø180 x 125mm (Ø7.09" x 4.92") 1.9kg (4.19lb)
Additional Features	Handover, Hallway View	Modular structure, PoE+ in/PoE out	Handover, Hallway View	Handover, Hallway View	Modular structure, PoE support

Camera X series

	X PLUS NEW **XNV-8082R** 6MP IR Outdoor Vandal Dome Camera	X PLUS PTRZ **XNV-8081Z** 5MP Vandal Dome Camera	X PLUS NEW **XNV-8081RE** 5MP Outdoor Dome Camera	X PLUS **XNV-8081R** 5MP IR Vandal Dome Camera
Imaging Device	1/2.8" CMOS	1/1.8" 6MP CMOS	1/1.8" 6MP CMOS	1/1.8" 6MP CMOS
Min. Illumination	Color : 0.05 Lux (F1.2) B/W : 0 Lux (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)	Color: 0.07Lux (F1.3) BW: 0Lux (IR LED)
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	2.8~8.4mm(3x) motorized varifocal	3.6~9.4mm(2.6x) motorized varifocal	3.9~9.4mm (2.4x) motorized varifocal	3.9~9.4mm (2.4x) motorized varifocal
Angular Field of View	H : 114˚(Wide) ~ 40.2˚(Tele) / V : 62.0˚(Wide) ~ 22.5˚(Tele) / D : 133.0˚(Wide) ~ 46.3˚(Tele)	H : 102.5˚(Wide) ~ 38.7˚(Tele) / V : 74.2˚(Wide) ~ 29.0˚(Tele) / D : 135.5˚(Wide) ~ 48.6˚(Tele)	H : 92.1˚(Wide) ~ 38.7˚(Tele) / V : 67.2˚(Wide) ~ 29.0˚(Tele) / D : 119.9˚(Wide) ~ 48.6˚(Tele)	H : 92.1˚(Wide) ~ 38.7˚(Tele) / V : 67.2˚(Wide) ~ 29.0˚(Tele) / D : 119.9˚(Wide) ~ 48.6˚(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	40m (131.23ft)	-	50m (164.04ft)	50m (164.04ft)
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	extreme WDR 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	Intelligent analytics, Audio detection, Sound classification, Shock detection, Face / uppder body 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	People counting, Queue management, Heatmap	People counting, Queue management, Heatmap	People counting, Queue management, Heatmap	People counting, Queue management, Heatmap
Alarm I/O	2 / 2	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
Resolution / Max. Frame Rate	6MP / 30fps	5MP / 30fps	5MP / 30fps	5MP / 30fps
WiseStream	WiseStream II	WiseStream II	WiseStream II	WiseStream II
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	-50°C ~ +60°C (-58°F ~ +140°F) * Start up above -30°C	-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)
Certification	IP67, IP66, IP6K9K, IK10+, NEMA4X	IP67, IP66, IP6K9K, IK10+, NEMA4X	IP67, IP66, IP6K9K, IK10+, NEMA4X	IP67, IP66, IP6K9K, IK10+, NEMA4X
Power Consumption	PoE : Max 12.95W 12VDC : Max 11.5W 24VAC : Max 13.5W	PoE : Max 12.3W 12VDC : Max 10W 24VAC : Max 12.3W	Main camera + Extenson camera: Max 25.5W PoE : Max 12.95W	PoE : Max 12.95W 12VDC : Max 11.7W 24VAC : Max 14.9W
Dimensions (WxHxD) /Weight	Ø180 x 125mm (Ø7.09" x 4.92") 1.9kg (4.19lb)	Ø180 x 125mm (Ø7.1" x 4.9") 1.75kg (3.86lb)	Ø180 x 125mm (Ø7.09" x 4.92") 1.75kg (3.86lb)	Ø180 x 125mm (Ø7.1" x 4.9") 1.75kg (3.86lb)
Additional Features	Modular structure, PoE support	Modular structure, Motorized PTRZ	Modular structure, PoE+ in/ PoE out	Modular structure

	XNV-8080R 5MP IR Vandal Dome Camera	**XNV-8080RSA** 5MP Stainless IR Dome Camera	**XNV-8020R/8030R/8040R** 5MP IR Vandal Dome Camera	**XNF-9010RV/9010RVM** 12MP IR Fisheye Camera	**XNF-8010R/8010RV/8010RVM/8010RW** 6MP IR Fisheye Camera
Imaging Device	1/1.8" 5MP CMOS	1/1.8" CMOS	1/1.8" 6MP CMOS	1/2.3" 12MP CMOS	1/1.8" 6MP 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 : 0.39Lux (F2.2) B/W : 0Lux (IR LED on)	Color : 0.1Lux (F1.6) B/W : 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 1.0Vp-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	1.6mm fixed
Angular Field of View	H : 92.1˚(Wide) ~ 38.7˚(Tele) / V : 67.2˚(Wide) ~ 29.0˚(Tele) / D : 119.9˚(Wide) ~ 48.6˚(Tele)	H : 92.1°(Wide) ~ 38.7°(Tele) / V : 67.2°(Wide) ~ 29.0°(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°	H : 192° / V : 192° / D : 192°
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	15m (49.21ft)
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	120dB	120dB	120dB	extreme WDR 120dB	120dB
Digital Noise Reduction	SSNRV	SSNRV	SSNRV	SSNRV	SSNRV
Digital Image Stabilization	Support	Support	Support (Built-in Gyro sensor)	Support	Support
Analytics	Intelligent analytics Audio detection Sound classification	Intelligent analytics Audio detection Sound classification Shock detection	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	2 / 2	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
Resolution / Max. Frame Rate	5MP / 30fps	5MP / 60fps	5MP / 30fps	3008 x 3008 / 30fps	2048 x 2048 / 30fps
WiseStream	WiseStream II	WiseStream II	WiseStream II	WiseStream II	WiseStream II
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, 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)	-40°C ~ +55°C (-40°F ~ +131°F)	-30°C ~ +55°C (-22°F ~ +131°F)	-40°C ~ +60°C (+40°F ~ +140°F)	-10°C ~ +55°C (+14°F ~ +131°F) (XNF-8010R/8010RW) -40°C ~ +55°C (-40°F ~ +131°F) (XNF-8010RV/8010RVM)
Certification	IP67, IP66, NEMA4X, IK10	IP66, IP6K9K, IK10+, NEMA4X	IP66, IP67, IK10	IP66, IK10, NEMA4X, EN50155 class T3	IP66, IK10 (XNF-8010RV/8010RVM)
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 9.00W 12VDC: Max 8.00W	PoE : Max 12.95W 12VDC: Max 11W	PoE : Max 12W,12VDC : Max 11W (XNF-8010R/RW) PoE : Max 12.95W, 12VDC : Max 12W (XNF-8010RV/8010RVM)
Dimensions (WxHxD) /Weight	Ø160.0 x 118.5mm (Ø6.3" x 4.67") 1.01Kg (2.23lb)	Ø162 X 120.5mm (Ø6.38" x 4.74") 2.8kg (6.17lb)	Ø120.0 x 97.5mm (Ø4.72" x 3.84") 615g (1.36lb)	Ø160 x 72mm (Ø62.99" x 28.35") 1100g (2.43lb)	Ø146 x 54.8mm (Ø5.75" x 2.16"), 730g (1.61 lb) (XNF-8010R) Ø146 x 65.8mm (Ø5.75" x 2.59") 785g (1.73 lb) (XNF-8010RV) 790g (1.74 lb) (XNF-8010RVM) Ø146 x 54.8mm (Ø5.75" x 2.16") (XNF-8010RW)
Additional Features	Handover, Hallway View	LDC, PoE support	Handover, Hallway View	Mobile certified, RJ45 Built-in Mic	M12 Connector (XNF-8010RVM), Built-in Mic, On board dewarpping

Camera X series

	XNZ-6320 2MP 32x Zoom Camera	**XNZ-L6320** 2MP 32x Zoom Camera	**XNB-6005** 2MP Box Camera (extraLUX)	**XNB-6000** 2MP Box Camera
Imaging Device	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2" 2.17MP CMOS	1/2.8" 2MP 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 : 0.006Lux (F1.2) B/W : 0.0006Lux (F1.2)	Color : 0.01Lux (F1.2) B/W : 0.001Lux (F1.2)
Video Output	CVBS 1.0 Vp-p, Micro USB type B	CVBS 1.0 Vp-p, Micro USB type B	CVBS 1.0Vp-p, Micro USB type B	CVBS 1.0Vpp, Micro USB type B
Focal Length	4.44 ~ 142.6mm (32x) zoom	4.44 ~ 142.6mm (32x) zoom	-	-
Angular Field of View	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	-	-	-	-
IR Viewable Length	-	-	-	-
Day & Night	Auto (ICR)	Auto(ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	150dB	120dB	150dB	150dB
Digital Noise Reduction	SSNRV	SSNRV	SSNRV	SSNRV
Digital Image Stabilization	Support (Built-in Gyro sensor)	Support	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	Intelligent analytics Audio detection Sound classification
Business Intelligence	-	-	-	-
Alarm I/O	1 / 2	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), 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	2MP / 60fps	2MP / 60fps	2MP / 60fps	2MP / 60fps
WiseStream	WiseStream II	WiseStream II	WiseStream II	WiseStream II
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, 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	-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 7W 12VDC : Max 6.7W	PoE : Max 7W 12VDC : Max 6.7W	PoE : Max. 8.5W 12VDC : Max 8W 24VAC : Max 9W	PoE : Max 7.5W 12VDC : Max 6.5W 24VAC : Max 8W
Dimensions (WxHxD) /Weight	96 x 76 x 143.5mm (3.78" x 2.99" x 5.65") 578g (1.274 lb)	72 x 63.9 x 135.4mm 540g (1.19lb)	73.1 x 66.6 x 147.8mm (2.88" x 2.62" x 5.82") 420g (0.93 lb)	73.1 x 66.6 x 147.8mm (2.88" x 2.62" x 5.82") 420g (0.93 lb)
Additional Features	Defog, SFP Slot	Defog	Handover, Hallway View	Handover, Hallway View

	XNB-6001 2MP Remote Head Camera	**SLA-T4680** 2MP lens for XNB-6001	**SLA-T4680V** 2MP lens for XNB-6001	**SLA-T2480** 2MP lens for XNB-6001	**SLA-T2480V** 2MP lens for XNB-6001	**SLA-T1080F** 2MP lens for XNB-6001
Imaging Device	-	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS
Min. Illumination	-	Color : 0.06Lux (F2.5) B/W: 0.06Lux (F2.5)	Color : 0.06Lux (F2.5) B/W: 0.06Lux (F2.5)	Color : 0.45Lux (F2.0) B/W : 0.45Lux (F2.0)	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	4.6mm Pinhole	2.4mm fixed	2.4mm fixed	1.6mm fisheye
Angular Field of View	-	H : 73° / V : 39° / D : 85°	H : 73° / V : 39° / D : 85°	H : 138° / V : 73° / D : 168°	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)	Auto (Electrical)	Auto (Electrical)
Wide Dynamic Range	120dB	-	-	-	-	-
Digital Noise Reduction	SSNRV	-	-	-	-	-
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	WiseStream II	-	-	-	-	-
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)	-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	131.1 x 28 x 86mm (5.16" x 1.10" x 3.39") 245g (0.54 lb)	Ø24 x 42mm (Ø0.94" x 1.65") (Lens) 8m (314.96") (Cable) 310g (0.68 lb)	30 x 20.2 x 45mm (1.18" x 0.80" x 1.77") (Lens) 8m (314.96") (Cable) 321g (0.71 lb)	Ø24 x 49.8mm (Ø0.94" x 1.96") (Lens) 8m (314.96") (Cable) 318g (0.70 lb)	30 x 27.9 x 45mm (1.18" x 0.10" x 1.77") (Lens) 8m (314.96") (Cable) 328g (0.72 lb)	Ø35 x 68.9mm (Ø1.38" x 2.71") (Lens) 8m (314.96") (Cable) 321g (0.71 lb)
Additional Features	Handover, Hallway View	-	-	-	-	-

Camera X series

	XNB-H6240A 2MP Network ATM Camera Kit	XNB-H6241A ATM Camera Kit	XNB-H6461H Height Strip	XNB-H6280B Bandit Barrier	SLA-T4680D/T4680DW/T4680DS 2MP Door Jamb Lens
Imaging Device	1/2.8" 2M CMOS	1/2.8" 2M CMOS	1/2.8" 2M CMOS	1/2.8" 2M CMOS	1/2.8" 2M CMOS
Video Compression	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	-
Resolution / Frame Rate	2MP / 60fps	2MP / 60fps	2MP / 60fps	2MP / 60fps	-
Streaming Capacity	Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)	-
Max. User Access	20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)	
Min. Illumination	Color : 0.45Lux B/W : 0.45Lux	Color : 0.45Lux B/W : 0.45Lux	0.06Lux	Color : 0.03 Lux (F1.6, 1/30sec)	0.06Lux
Video Output	CVBS 1.0Vpp, Micro USB type B	CVBS 1.0Vpp, Micro USB type B	CVBS 1.0Vpp, Micro USB type B	CVBS 1.0Vpp, Micro USB type B	-
Lens	2.4mm Fixed focal	2.4mm Fixed focal	4.6mm Fixed focal	2.8mm Fixed focal	4.6mm Pinhole (F2.5)
Angular Field of View	H : 138° /V : 73° / D : 168°	H : 138° /V : 73° / D : 168°	H : 73° / V : 39° / D : 85°	H : 107.4° / V : 62.2° / D : 122.0°	H : 73° / V : 39° / D : 85°
Focus Control	Fixed	Fixed	Fixed	Fixed	Fixed
IR Viewable Length	-	-	-	-	-
Pan / Tilt / Rotate	-	-	-	-	-
Day & Night	Auto (Electrical) / Color / B/W	Auto (Electrical) / Color / B/W	Auto (Electrical) / Color / B/W	Auto (Electrical) / Color / B/W / Schedule	Electrical
Backlight Compensation	Off / BLC / HLC / WDR (120dB)	WDR (120dB)	WDR (120dB)	Off / BLC / HLC (Masking / Dimming) / WDR	WDR (120dB)
Digital Noise Reduction	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)	-
Digtial Image Stabilization	Off / On	Off / On	Off / On	Off / On	-
Video & Audio Analytics	Tampering, Loitering, Directional detection, Defocus detection, Fog & Dust detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Face detection, Motion detection, Digital auto tracking, People counting, Heatmap, Queue management	Tampering, Loitering, Directional detection, Defocus detection, Fog & Dust detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Face detection, Motion detection, Digital auto tracking, People counting, Heatmap, Queue management	Tampering, Loitering, Directional detection, Defocus detection, Fog & Dust detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Face detection, Motion detection, Digital auto tracking, People counting, Heatmap, Queue management	Tampering, Loitering, Directional / Virtual Line detection, Defocus detection, Fog detection, Enter / Exit, (Dis) Appear, Audio detection, Face detection, Motion detection, Digital auto tracking, Sound classification, People counting, Heatmap, Queue management	-
Protocol	TTCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP,RTSP, NTP, HTTP, HTTPS, SSL, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/ v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour	TTCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP,RTSP, NTP, HTTP, HTTPS, SSL, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/ v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour	TTCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP,RTSP, NTP, HTTP, HTTPS, SSL, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/ v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour	TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTCP,RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/ v2c/v3 (MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour	-
Alarm I/O	1 / 1	1 / 1	1 / 1	1 / 1	-
Audio	Bi-Directional	Bi-Directional	Bi-Directional	Bi-Directional	-
Edge Storage	SD/SDHC/SDXC, NAS, Local PC	SD/SDHC/SDXC, NAS, Local PC	SD/SDHC/SDXC, NAS, Local PC	SD/SDHC/SDXC, NAS, Local PC	-
Environment Protection	-	-	-	-	-
Operation 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)	-10°C ~ +55°C (+14°F ~ +131°F)
Power Consumption	Max. 6.5W (12V DC) Max. 6W (PoE)	Max. 6.5W (12V DC) Max. 6W (PoE)	Max. 6.5W (12V DC) Max. 6W (PoE)	Max. 6.5W (12V DC) Max. 6W (PoE)	-
Dimensions (WxHxD) /Weight	131.1 x 28 x 86mm (5.16" x 1.10" x 3.39") 245g (0.54 lb)	131.1 x 28 x 86mm (5.16" x 1.10" x 3.39") 245g (0.54 lb)	866.1 x 43.7 x 35.1mm (1.72" x 34.10" x 1.38")	66.5x46x175~737mm (2.6x1.8x6.9~29.0")	Ø24 x 42mm (Ø0.94" x 1.65") (Lens) 8m (314.96") (Cable) 310g (0.68 lb)
Additional Features	Handover, WiseStream II, Advanced video analytics, Sound classification (Explosion, Gunshot, Glass breakage, Scream etc), Hallway View	Handover, WiseStream II, Advanced video analytics, Sound classification (Explosion, Gunshot, Glass breakage, Scream etc), Hallway View	Handover, WiseStream II, Advanced video analytics, Sound classification (Explosion, Gunshot, Glass breakage, Scream etc), Hallway View	Handover, WiseStream II, Advanced video analytics, Sound classification (Explosion, Gunshot, Glass breakage, Scream etc), Hallway View	Lens module for XNB-6001 SLA-T4680D (Black color) SLA-T4680DW (White color) SLA-T4680DS (Silver color)

	XNO-6120R / LPR 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
Imaging Device	1/2.8" 2MP CMOS	1/2" 2.17MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP 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 : 0.1Lux (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)
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	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)
Angular Field of View	H : 54.58° (Wide) ~ 5.30° (Tele) / V : 32.19° (Wide) ~ 3.00° (Tele) / D : 61.40° (Wide) ~ 6.06° (Tele)	H : 100° (Wide) ~ 26.2° (Tele) / V : 54° (Wide) ~ 14.8° (Tele) / D : 116° (Wide) ~ 30.0° (Tele)	H : 119.5° (Wide) ~ 27.9° (Tele) / V : 62.8° (Wide) ~ 15.7° (Tele) / D : 142.1° (Wide) ~ 32.0° (Tele)	H : 109.0° (Wide) ~ 33.2°(Tele) / V : 57.4° (Wide) ~ 18.7°(Tele) / D : 132.0° (Wide) ~ 38.0°(Tele)	H : 139.0° / V : 73.0° / D : 167.0° (XNO-6010R) H : 88.6° / V : 47.5° / D : 104.8° (XNO-6020R)
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)
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	150dB	150dB	150dB	120dB	150dB
Digital Noise Reduction	SSNRV	SSNRV	SSNRV	SSNRV	SSNRV
Digital Image Stabilization	Support (Built-in Gyro sensor)	Support (Built-in Gyro sensor)	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
Business Intelligence	-	-	-	-	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) / 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	WiseStream II	WiseStream II	WiseStream II	WiseStream II	WiseStream II
Streaming	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles	Up to 5 Profiles	Up to 10 Profiles
Edge Storage	SD/SDHC/SDXC	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
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
Certification	IP67, IP66, NEMA 4X, IK10	IP67, IP66, NEMA 4X, IK10	IP67, IP66, NEMA 4X, IK10	IP66, 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
Dimensions (WxHxD) / Weight	Ø91.0 x 368.6mm (Ø3.58" x 14.51") 2.18Kg (4.81 lb)	Ø91.0 x 388.6mm (Ø3.58" x 15.30") 2.35Kg (5.18 lb)	Ø91.0 x 368.6.mm (Ø3.58" x 14.51") 2.18Kg (4.81lb)	Ø91 x 322.9mm (Ø3.58" x 12.71") 1.29Kg (4.25 lb)	Ø70 x 301.5mm (Ø2.76" x 11.87") (XNO-6010R) Ø70 x 296mm (Ø2.76" x 11.65") (XNO-6020R) 1.22Kg (2.69 lb)
Additional Features	Handover, Hallway View	Handover, Hallway View	Handover, Hallway View	Handover, Hallway View	Handover, Hallway View

Camera X series

	PTRZ **XND-6085V** 2MP Dome Camera (extraLUX)	X PLUS NEW **XND-6081REV** 2MP IR Dome Camera	X PLUS **XND-6081V** 2MP Dome Camera	X PLUS **XND-6081F** 2MP Flush Mount Dome Camera	X PLUS PTRZ **XND-6081VZ** 2MP Dome Camera
Imaging Device	1/2" 2.17MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS
Min. Illumination	Color : 0.004Lux (F0.94) B/W : 0.0004Lux (F0.94)	Color : 0.015Lux (F1.4) B/W : 0Lux (IR LED)	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)
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	2.8 ~ 12mm (4.3x) motorized varifocal
Angular Field of View	H : 100° (Wide) ~ 26.2° (Tele) / V : 54° (Wide) ~14.8° (Tele) / D : 116° (Wide) ~ 30.0° (Tele)	H : 119.5° (Wide) ~ 27.9° (Tele) / V : 62.8° (Wide) ~ 15.7° (Tele) / D : 142.1° (Wide) ~ 32.0° (Tele)	H : 119.5° (Wide) ~ 27.9° (Tele) / V : 62.8° (Wide) ~ 15.7° (Tele) / D : 142.1° (Wide) ~ 32.0° (Tele)	H : 119.5° (Wide) ~ 27.9° (Tele) / V : 62.8° (Wide) ~15.7° (Tele) / D : 142.1° (Wide) ~ 32.0° (Tele)	H : 119.5° (Wide) ~ 27.9° (Tele) / V : 62.8° (Wide) ~ 15.7° (Tele) / D : 142.1° (Wide) ~ 32.0° (Tele)
Pan / Tilt / Rotate	±175° / ±73° / ±175°	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)	-	-	-
Day & Night	Auto (ICR)	Auto (ICR)	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 (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	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	-	People counting, Queue management, Heatmap	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	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) / 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	WiseStream II	WiseStream II	WiseStream II	WiseStream II	WiseStream II
Streaming	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles	Up to 10 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/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 -10°C (+14°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	IK08	IP52, IK10	IP52, IK10	IP52, Plenum rated	IP52, IK10
Power Consumption	PoE : Max 10.2W 12VDC : Max 8.6W	Main camera + Extension camera: Max 25.5W PoE : Max 12.95W	PoE : Max 7.0W 12VDC : Max 5.40W	PoE : Max 7.0W 12VDC : Max 5.40W	PoE : Max 10W 12VDC : Max 8.5W
Dimensions (WxHxD) / Weight	Ø160.0 x 140.0mm (Ø6.30" x 5.51") 1.25 kg (2.76 lb)	Ø160 x 125mm (Ø6.30" x 4.92") 1.45kg (3.20lb)	Ø160 x 125mm (Ø6.30" x 4.92") 1.45kg (3.2lb)	Ø205 x 155mm (Ø8.07" x 6.10") 1.80kg (3.97lb)	Ø160 x 125mm (Ø6.30" x 4.92") 1.45kg (3.2lb)
Additional Features	Handover, Hallway View, Motorized PTZ	Modular structure, PoE+ in/ PoE out	Modular structure, Anti dust	Modular structure, Anti dust	Modular structure, Motorized PTRZ, Anti dust

	X PLUS **XND-6081FZ** 2MP Flush Mount Dome Camera	X PLUS **XND-6081RV** 2MP IR Dome Camera	X PLUS **XND-6081RF** 2MP Flush Mount IR Dome Camera	 **XND-6080V** 2MP Dome Camera	 **XND-6080RV** 2MP IR Dome Camera
Imaging Device	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS
Min. Illumination	Color : 0.015Lux (F1.4) B/W : 0.0015Lux (F1.4)	Color : 0.015 Lux (F1.4) B/W : 0Lux (IR LED on)	Color : 0.015 Lux (F1.4) B/W : 0Lux (IR LED on)	Color : 0.015Lux (F1.4) B/W : 0.0015Lux (F1.4)	Color : 0.015Lux (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	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	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) ~ 32.0° (Tele)	H : 119.5° (Wide) ~ 27.9° (Tele) / V : 62.8° (Wide) ~ 15.7° (Tele) / D : 142.1° (Wide) ~ 32.0° (Tele)	H : 119.5° (Wide) ~ 27.9° (Tele) / V : 62.8° (Wide) ~ 15.7° (Tele) / D : 142.1° (Wide) ~ 32.0° (Tele)	H : 119.5° (Wide) ~ 27.9° (Tele) / V : 62.8° (Wide) ~ 15.7° (Tele) / D : 142.1° (Wide) ~ 32.0° (Tele)	H : 119.5° (Wide) ~ 27.9° (Tele) / V : 62.8° (Wide) ~ 15.7° (Tele) / D : 142.1° (Wide) ~ 32.0° (Tele)
Pan / Tilt / Rotate	±175° / 0 ~ 85° / ±175° (Remote)	0°~360° / -45°~ 85° / 0°~ 355°	0°~ 360° / -45°~ 85° / 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)
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	Support (Built-in Gyro sensor)	Support (Built-in Gyro sensor)	Support	Support
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	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	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), 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	WiseStream II	WiseStream II	WiseStream II	WiseStream II	WiseStream II
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)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)
Certification	IP52, Plenum rated	IP52, IK10	IP52, Plenum rated	IK08	IK08
Power Consumption	PoE : Max 10W 12VDC: Max 8.5W	PoE : Max 12.95W 12VDC : Max 10.8W	PoE : Max 12.95W 12VDC : Max 10.8W	PoE : Max 6.5W 12VDC : Max 6W	PoE : Max 10W 12VDC : Max 9W
Dimensions (WxHxD) / Weight	Ø205 x 155mm (Ø8.07" x 6.10") 1.85kg (4.08lb)	Ø160 x 125mm (Ø6.30" x 4.92") 1.45kg (3.2lb)	Ø205 x 155mm (Ø8.07" x 6.10") 1.80kg (3.97lb)	Ø140.8 x 113.0mm (Ø5.54" x 4.45") 714g (1.57lb)	Ø140.8 x 113.0mm (Ø5.54" x 4.45") 624g (1.38lb)
Additional Features	Modular structure, Motorized PTRZ, Anti dust	Modular design, Anti dust	Modular design, Anti dust	Handover, Hallway View	Handover, Hallway View

Camera X series

	XND-L6080RV 2MP IR Dome Camera	XND-L6080V 2MP Dome Camera	XND-6020R 2MP IR Dome Camera	XND-6011F 2MP Flush Mount Dome Camera	XND-6010 2MP Dome Camera
Imaging Device	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS
Min. Illumination	Color : 0.1Lux (F1.6) B/W : 0Lux (IR LED on)	Color : 0.1Lux (F1.6) B/W : 0.01Lux (F1.6)	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)
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	Micro USB type B	CVBS 1.0Vp-p, Micro USB type B
Focal Length	3.2 ~ 10mm (3.1x) motorized varifocal	3.2 ~ 10mm (3.1x) motorized varifocal	4mm fixed	2.8mm fixed	2.4mm fixed
Angular Field of View	H : 109.0° (Wide) ~ 33.2° (Tele) / V : 57.4° (Wide) ~ 18.7° (Tele) / D : 132.0° (Wide) ~ 38.0° (Tele)	H : 109.0° (Wide) ~ 33.2° (Tele) / V : 57.4° (Wide) ~ 18.7° (Tele) / D : 132.0° (Wide) ~ 38.0° (Tele)	H : 88.6° / V : 47.5° / D : 104.8°	H : 112° / V : 62° / D : 130°	H : 139.0° / V : 73.0° / D : 167.0°
Pan / Tilt / Rotate	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 355° / 0° ~ 47° / 0° ~ 353°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°
IR Viewable Length	30m (98.42ft)	-	30m (98.43ft)	-	-
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (Electrical)	Auto (ICR)
Wide Dynamic Range	120dB	120dB	150dB	-	150dB
Digital Noise Reduction	SSNRV	SSNRV	SSNRV	SSNRV	SSNRV
Digital Image Stabilization	Support	Support	Support	Support	Support
Analytics	Intelligent analytics	Intelligent analytics	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
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
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	WiseStream II	WiseStream II	WiseStream II	WiseStream II	WiseStream II
Streaming	Up to 5 Profiles	Up to 5 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	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/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)	-10°C ~ +55°C (+14°F ~ +131°F)
Certification	IK08	IK08	IK08	-	IK08
Power Consumption	PoE : Max 8W	PoE : Max 6W	PoE : Max 9W 12VDC : Max 8W	PoE : Max 4.7W	PoE : Max 6.5W 12VDC : Max 6W
Dimensions (WxHxD) / Weight	Ø140.8 x 113.0mm (Ø5.54" x 4.45") 690g (1.52 lb)	Ø140.8 x 113.0mm (Ø5.54" x 4.45") 675g (1.49 lb)	Ø110.0 x 90.0mm (Ø4.33" x 3.54") 380g (0.84 lb)	Ø98.9 x 129mm (Ø3.89" x 5.08") 275g (0.61 lb)"	Ø140.8 x 113.0mm (Ø5.54" x 4.45") 610g (1.34 lb)
Additional Features	Defog, Hallway View	Defog, Hallway View	Handover, Hallway View	Handover, Hallway View	Handover, Hallway View

	XNV-6120/6120R / LPR 2MP Vandal / IR Vandal Dome Camera	**XNV-6085** 2MP Vandal Dome Camera (extraLUX)	**XNV-6081Z** 2MP Vandal Dome Camera	**XNV-6081RE** 2MP IR Vandal Dome Camera	**XNV-6081R** 2MP IR Vandal Dome Camera
Imaging Device	1/2.8" 2MP CMOS	1/2" 2.17MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS
Min. Illumination	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 : 0.004Lux (F0.94) B/W : 0.0004Lux (F0.94)	Color : 0.015 lux (F1.4) B/W : 0.0015 Lux (F1.4)	Color : 0.015Lux (F1.4) B/W : 0Lux (IR LED on)	Color : 0.015Lux (F1.4) BW : 0Lux (IR LED)
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	5.2 ~ 62.4mm (Optical 12x)	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
Angular Field of View	H : 54.58° (Wide) ~ 5.30° (Tele) / V : 32.19° (Wide) ~ 3.00° (Tele) / D : 61.40° (Wide) ~ 6.06° (Tele)	H : 100° (Wide) ~ 26.2° (Tele) / V : 54° (Wide) ~ 14.8° (Tele) / D : 116° (Wide) ~ 30.0° (Tele)	H : 119.5° (Wide) ~ 27.9° (Tele) / V : 62.8° (Wide) ~ 15.7° (Tele) / D : 142.1° (Wide) ~ 32.0° (Tele)	H : 119.5° (Wide) ~ 27.9° (Tele) / V : 62.8° (Wide) ~ 15.7° (Tele) / D : 142.1° (Wide) ~ 32.0° (Tele)	H : 119.5° (Wide) ~ 27.9° (Tele) / V : 62.8° (Wide) ~ 15.7° (Tele) / D : 142.1° (Wide) ~ 32.0° (Tele)
Pan / Tilt / Rotate	0° ~ 354° / 0° ~ 75° / 0° ~ 355°	±175° / ±73° / ±175°	±175° / 0 ~ 85° / ±175° (Remote)	0° ~ 360° / -45° ~ 85° / 0° ~ 355°	0° ~ 360° / -45° ~ 85° / 0° ~ 355°
IR Viewable Length	70m (229.66ft) (XNV-6120R)	-	-	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	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 (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 Audio Playback Shock detection	Intelligent analytics Audio detection Sound classification Shock detection	Intelligent analytics Audio detection Sound classification Audio Playback Shock detection
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	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
Resolution / Max. Frame Rate	2MP / 60fps	2MP / 60fps	2MP / 60fps	2MP / 60fps	2MP / 60fps
WiseStream	WiseStream II	WiseStream II	WiseStream II	WiseStream II	WiseStream II
Streaming	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles
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/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	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)	-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)
Certification	IP67, IP66, NEMA 4X, IK10	IP67, IP66, NEMA 4X, IK10	IP67, IP66, IP6K9K, IK10+, NEMA4X	IP67, IP66, IP6K9K, IK10+, NEMA4X	IP67, IP66, IP6K9K, IK10+, NEMA4X
Power Consumption	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 12.1W 12VDC : Max 11.1W 24VAC : Max 13.5W	PoE : Max 11W 12VDC : Max 9.5W 24VAC : Max 11W	Main camera + Extension camera: Max 25.5W PoE: Max 12.95W	PoE : Max 12.95W 12VDC : Max 10.8W 24VAC : Max 13.3W
Dimensions (WxHxD) / Weight	Ø160.0 x 128.5mm (Ø6.30" x 5.06") 985g (2.17 lb) (XNV-6120) 995g (2.19 lb) (XNV-6120R)	Ø160.0 x 140.0mm (Ø6.30" x 5.51") 1.40kg (3.09 lb)	Ø180 x 125mm (Ø7.1" x 4.9") 1.75kg (3.86lb)	Ø180.0 x 125mm (Ø7.09" x 4.92") 1.75kg (3.86 lb)	Ø180 x 125mm (Ø7.1" x 4.9") 1.75kg (3.86lb)
Additional Features	Handover, Hallway View	Handover, Hallway View	Modular structure, Motorized PTRZ	Modular structure, PoE+ in/ PoE out	Modular structure

Camera X series

	X PLUS				
	XNV-6081	**XNV-6080**	**XNV-6080R**	**XNV-6080RSA**	**XNV-L6080**
	2MP Vandal Dome Camera	2MP Vandal Dome Camera	2MP IR Vandal Dome Camera	2MP Stainless Steel IR Dome Camera	2MP Vandal Dome Camera
Imaging Device	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" CMOS	1/2.8" 2MP CMOS
Min. Illumination	Color : 0.015 Lux (F1.4) B/W : 0.0015 Lux (F1.4)	Color : 0.015Lux (F1.4) B/W : 0.015Lux (F1.4)	Color : 0.015Lux (F1.4) B/W : 0Lux (IR LED on)	Color : 0.015 Lux (F1.4) B/W : 0Lux (IR LED on)	Color : 0.1Lux (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	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	3.2 ~ 10mm (3.1x) motorized varifocal
Angular Field of View	H : 119.5° (Wide) ~ 27.9° (Tele) / V : 62.8° (Wide) ~ 15.7° (Tele) / D : 142.1° (Wide) ~ 32.0° (Tele)	H : 119.5° (Wide) ~ 27.9° (Tele) / V : 62.8° (Wide) ~ 15.7° (Tele) / D : 142.1° (Wide) ~ 32.0° (Tele)	H : 119.5° (Wide) ~ 27.9° (Tele) / V : 62.8°(Wide) ~ 15.7° (Tele) / D : 142.1° (Wide) ~ 32.0° (Tele)	H : 119.5° (Wide) ~ 27.9° (Tele) / V : 62.8° (Wide) ~ 15.7° (Tele) / D : 142.1° (Wide) ~ 32.0° (Tele)	H : 109.0° (Wide) ~ 33.2° (Tele) / V : 57.4° (Wide) ~ 18.7° (Tele) / D : 132.0° (Wide) ~ 38.0° (Tele)
Pan / Tilt / Rotate	0° ~ 360° / -45° ~ 85° / 0° ~ 355°	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 Audio Playback Shock detection	Intelligent analytics Audio detection, Sound classification	Intelligent analytics Audio detection, Sound classification	Intelligent analytics Audio detection, Sound classification	Intelligent analytics
Business Intelligence	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) / 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	WiseStream II	WiseStream II	WiseStream II	WiseStream II	WiseStream II
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/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	-50°C ~ +60°C (-58°F ~ +140°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, IP6K9K, IK10+, NEMA4X	IP67, IP66, NEMA4X, IK10	IP67/IP66/NEMA4X, IK10	IP66, IP6K9K, IK10+, NEMA4X	IP66, IK10
Power Consumption	PoE : Max 7.0W 12VDC : Max 5.4W 24VAC : Max 7.1W	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	Ø180 x 125mm (Ø7.1" x 4.9") 1.45kg (3.20lb)	Ø160.0 x 118.5mm (Ø6.30" x 4.67") 985g (2.17 lb)	Ø160.0 x 118.5mm (Ø6.30" x 4.67") 995g (2.19 lb)	Ø162 x 120.5mm (Ø6.38" x 4.74") 2.8kg (6.17lb)	Ø160.0 x 118.5mm (Ø6.3" x 4.67") 940g (2.1 lb)
Additional Features	Modular structure	Handover, Hallway View	Handover, Hallway View	LDC, PoE support	Handover, Hallway View

	XNV-L6080R 2MP IR Vandal Dome Camera	**XNV-6020R** 2MP IR Vandal Dome Camera	**XNV-6022R/6022RM** 2MP Mobile IR Flat Camera	**XNV-6013M** 2MP Mobile Camera	**XNV-6012M/6012** 2MP Mobile Flat Camera
Imaging Device	1/2 .8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS
Min. Illumination	Color : 0.1Lux (F1.6) B/W : 0Lux (IR LED on)	Color : 0.015Lux (F1.4) B/W : 0Lux (IR LED on)	Color : 0.04Lux (F2.0) 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	CVBS 1.0Vp-p, Micro USB Type B	Micro USB Type B	Micro USB Type B	Micro USB Type B
Focal Length	3.2 ~ 10mm (3.1x) motorized varifocal	4mm fixed	3.6mm fixed	2.8mm fixed	2.4mm fixed
Angular Field of View	H : 109.0° (Wide) ~ 33.2° (Tele) / V : 57.4° (Wide) ~ 18.7° (Tele) / D : 132.0° (Wide) ~ 38.0° (Tele)	H : 88.6° / V : 47.5° / D : 104.8°	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	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	±5° / 0° ~ 67° / ±90°	±5° / ±10° / ±90°	±5° / 0 ~ 67° / ±90°
IR Viewable Length	30m (98.43ft)	30m (98.43ft)	15m (49.21ft)	-	-
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	Support (Built-in Gyro sensor)	Support (Built-in Gyro sensor)	Support (Built-in Gyro sensor)
Analytics	Intelligent analytics	Intelligent analytics Audio detection, Sound classification	Intelligent analytics Audio detection Sound classification (w/ external MIC)	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) / 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	WiseStream II	WiseStream II	WiseStream II	WiseStream II	WiseStream II
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	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	IP67, IP66, IK10	IP66, IK10, NEMA4X	IP67, IP6K9K, IK10, NEMA4X	IP66, IK10, NEMA4X
Power Consumption	PoE : Max 11W	PoE : Max 9W 12V DC : Max 8W	PoE : Max 6.70W	PoE : Max 7.20W	PoE : Max 6.50W
Dimensions (WxHxD) / Weight	Ø160.0 x 118.5mm (Ø6.30" x 4.67") 940g (2.07 lb)	Ø120.0 x 97.5mm (Ø4.72" x 3.84") 615g (1.36 lb)	98.9 x 52.0 x 100.0mm (3.89" x 2.05" x 3.94") 295g (0.65 lb)	103.7 x 72.3 x 126.8mm (4.08" x 2.85" x 4.99") 478g (1.04 lb)	98.9 x 52.0 x 100.0mm (3.89" x 2.05" x 3.94") 295g (0.65 lb)
Additional Features	Handover, Hallway View	Handover, Hallway View	M12 Connector (XNV-6022RM) Handover, Hallway View	M12 Connector Handover, Hallway View	M12 Connector (XNV-6012M) Handover, Hallway View

Camera X series

	XNV-6011 / 6011W 2MP Vandal Dome Camera	**XNV-6010** 2MP Vandal Dome Camera	**XNP-6120H** 2MP 12x PTZ Camera	**XNP-6040H** 2MP 4.3x PTZ Camera
Imaging Device	1/2 .8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP 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 : 0.03Lux (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, Micro USB type B	CVBS 1.0Vpp, Micro USB type B	CVBS 1.0 Vp-p, Micro USB type B	CVBS 1.0 Vp-p, Micro USB type B
Focal Length	2.8mm fixed	2.4mm fixed	5.2 ~ 62.4mm (12x) zoom	2.8 ~ 12mm (4.3x) zoom
Angular Field of View	H : 112° / V : 62° / D : 130°	H : 139.0° / V : 73.0° / D : 167.0°	H : 54.58°(Wide) ~ 5.30 °(Tele) / V : 32.19° (Wide) ~ 3.00° (Tele)	H : 119.5° (Wide) ~ 27.9° (Tele) / V : 62.8° (Wide) ~ 15.7 °(Tele) / D : 142.1° (Wide) ~ 32.0° (Tele)
Pan / Tilt / Rotate	0° ~ 353° / 0°~ 59° / 0°~ 353°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	360° Endless / 190° (-5° ~ 185°) / -	0° ~ 355° / 0° ~ 90°
IR Viewable Length	-	-	-	-
Day & Night	Auto (Electrical)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	150dB	150dB	150dB	150dB
Digital Noise Reduction	SSNRV	SSNRV	SSNRV	SSNRV
Digital Image Stabilization	Support	Support	Support (Built-in Gyro sensor)	Support (Built-in Gyro sensor)
Analytics	Intelligent analytics	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
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
Resolution / Max. Frame Rate	2MP / 60fps	2MP / 60fps	2MP / 60fps	2MP / 60fps
WiseStream	WiseStream II	WiseStream II	WiseStream II	WiseStream II
Streaming	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles
Edge Storage	SD/SDHC/SDXC	SD/SDHC/SDXC	Micro SD/SDHC/SDXC	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
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)	-30°C ~ +55°C (-22°F ~ +131°F)
Certification	IP66, IK10, NEMA4X	IP67, IP66, IK10	IP66, IK10	IP66, IK10
Power Consumption	PoE : Max 6.50W	PoE : Max 6W 12V DC : Max 5.5W	PoE, 12VDC : Max 12W	PoE : Max 9.6W 12VDC : Max 8.6W
Dimensions (WxHxD) /Weight	Ø112.8 x 63.7mm (Ø4.44" x 2.51") 420g (0.93 lb)	Ø120.0 x 97.5mm (Ø4.72" x 3.84") 625g (1.38 lb)	Ø168.0 x 161.5mm (Ø6.61" x 6.36") 1.9kg (4.19 lb)	Ø136.1 x 106.1mm (Ø5.36"x 4.18") 0.78 kg (1.72 lb)
Additional Features	Handover, Hallway View	Handover, Hallway View	Defog, Auto tracking	Defog, Auto tracking

	XNP-6320RH 2MP 32x IR PTZ Camera	XNP-6320H/6320 2MP PTZ Camera	XNP-6320HS 2MP Stainless 32x PTZ Camera	XNP-6550RH 2MP 55x IR PTZ Camera
Imaging Device	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS
Min. Illumination	Color : 0.05Lux (F1.6) B/W : 0Lux (IR LED on)	Color : 0.05Lux (F1.6) B/W : 0.005Lux (F1.6)	Color : 0.05Lux (F1.6) B/W : 0.005Lux (F1.6)	Color : 0.02Lux (F1.6) B/W : 0Lux (IR LED on)
Video Output	CVBS 1.0 Vp-p	CVBS 1.0 Vp-p, Micro USB Type B	CVBS 1.0Vp-p, Micro USB type B	-
Focal Length	4.44 ~ 142.6mm (32x) zoom	4.44 ~ 142.6mm (32x) zoom	4.44 ~ 142.6mm (32x) zoom	4.75 ~ 261.4mm (55x) zoom
Angular Field of View	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)	H : 61.8° (Wide) ~ 2.19° (Tele) / V : 36.2° (Wide) ~ 1.24° (Tele)	H : 58.6° (Wide) ~ 1.23° (Tele) / V : 34.8° (Wide) ~ 0.71° (Tele)
Pan / Tilt / Rotate	360° Endless / 95° (-5° ~ 90°) / -	360° Endless / 210° (-15° ~ 195°) / -	360° Endless / 210° (-15° ~ 195°) / -	360° Endless / 95° (-5° ~ 90°) / -
IR Viewable Length	200m (656.17ft)	-	-	500m (1,640.42ft)
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	150dB	150dB	150dB	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	Intelligent analytics Audio detection, Sound classification Shock detection	Intelligent analytics Audio detection, Sound classification Shock detection	Intelligent analytics Audio detection, Sound classification Shock detection	Intelligent analytics Audio detection, Sound classification Shock detection
Business Intelligence	-	-	-	-
Alarm I/O	4 / 1	4 / 2	4 / 2	4 / 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	2MP / 60fps	2MP / 60fps	2MP / 60fps
WiseStream	WiseStream II	WiseStream II	WiseStream II	WiseStream II
Streaming	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles
Edge Storage	Micro SD/SDH C/SDXC	Micro SD/SDHC/SDXC	Micro SD/SDHC/SDXC	Micro SD/SDH C/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
Operating Temperature	HPoE : -40°C ~ +55°C (-40°F ~ +131°F) * Start up above -35°C 24VAC : -50°C ~ +55°C (-58°F ~ +131°F)	PoE+ : -35°C ~ +55°C (-31°F ~ +131°F) 24VAC : -50°C ~ +55°C (-58°F~+131°F) (XNP-6320H) -10°C ~ +55°C(-14°F ~ +131°F) (XNP-6320)	PoE+ : -35°C ~ +55°C (-31°F ~ +131°F) 24VAC : -50°C ~ +55°C (-58°F ~ +131°F)	-50°C ~ +55°C (-122°F ~ +131°F) * Start up above -30°C (HPoE Mode) 24VAC: -50 HPoE: -40
Certification	IP66, IK10	IP66, IK10 (XNP-6320H) IK10 (With SHP-3701H) (XNP-6320)	IP67, IP66, NEMA4X, IK10	IP66, IK10
Power Consumption	HPoE : Max 51W, typical 30W 24VAC : Max 83W, typical 30W	PoE+, Max 24W 24VAC : Max 65W -(XNP-6320H) PoE+, 24VAC : Max 20W (XNP-6320)	24VAC : Max 65W	HPoE : 60W 24VAC : Max 92W
Dimensions (WxHxD) /Weight	Ø236.9 x 407.7mm (Ø9.33" x 16.05") 6.8Kg (14.99 lb)	Ø220 x 293.6mm (Ø8.66" x 11.56") 3.3Kg (7.28 lb) (XNP-6320H) Ø152 x 218mm (Ø5.98" x 8.58") 1.7Kg (3.75 lb) (XNP-6320)	Ø227 x 296mm (Ø8.94" x 11.65") 5.3Kg (11.69 lb)	Ø236.9 x 407.7mm (Ø9.33" x 16.05") 7.1Kg (15.65 lb)
Additional Features	Defog, Auto tracking, Direction indicator	Defog, Auto tracking	Defog, Auto tracking	Optical Defog, Auto tracking

Camera X series

	COMING SOON		COMING SOON	
	XNP-9250R/9250 / 8250R/8250 4K / 6MP Network 25x IR PTZ Camera	**XNP-9300RW/8300RW** 4K / 6MP 30x IR PTZ Camera	**XNP-6400R/6400** 2MP Network 40x IR PTZ Camera	**XNP-6400RW** 2MP 40x IR PTZ Camera
Imaging Device	1/2 .8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Min. Illumination	Color : 0.1Lux (F1.6) B/W : 0Lux (IR LED On)	Color : 0.1Lux (F1.6) B/W : 0Lux (IR LED on)	Color : 0.05Lux (F1.6) B/W : 0Lux (IR LED on)	Color : 0.05Lux (F1.6) B/W : 0Lux (IR LED on)
Video Output	-	-	-	-
Focal Length	5 ~ 125mm (25x) zoom	5 ~ 150mm (30x) zoom	4.25 ~ 170mm (40x) zoom	4.25 ~ 170mm (40x) zoom
Angular Field of View	H : 57.42° (Wide) ~ 2.71° (Tele) / V : 33.54° (Wide) ~ 1.55° (Tele)	H : 57.42° (Wide) ~ 2.19° (Tele) / V : 33.54° (Wide) ~ 1.25° (Tele)	H : 65.66° (Wide) ~ 1.88° (Tele) / V : 39.40° (Wide) ~ 1.09° (Tele)	H : 65.66° (Wide) ~ 1.88° (Tele) / V : 39.40° (Wide) ~ 0.09° (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 (XNP-9250R/8250R)	200m (656.17ft), Wise IR	200m (656.17ft), Wise IR (XNP-6400R)	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 120dB	extremeWDR 120dB	extremeWDR 150dB	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	Intelligent analytics Audio detection, Sound classification	Intelligent analytics Audio detection, Sound classification	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
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
Resolution / Max. Frame Rate	4K / 30fps (XNP-9250R/9250) 6MP / 30fps (XNP-8250R/8250)	4K / 30fps (XNP-9300RW) 6MP / 30fps (XNP-8300RW)	2MP / 60fps	2MP / 60fps
WiseStream	WiseStream II	WiseStream II	WiseStream II	WiseStream II
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, SUNAPI, Wisenet open platform	ONVIF profile S/G, SUNAPI, Wisenet open platform
Operating Temperature	-40°C ~ +60°C (-40°F ~ +140°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	IP66, IK10, NEMA4X, NEMA-TS 2(2.2.8, 2.2.9)	IP66, IK10, NEMA4X, UL CAP	IP66, IK10, NEMA4X, NEMA-TS 2(2.2.8, 2.2.9)	IP66, IK10, NEMA4X, UL CAP
Power Consumption	Typical 20W, Max 40W	HPoE : 42W	Typical 20W, Max 40W	HPoE : 42W
Dimensions (WxHxD) /Weight	Ø158 x 293.3mm (Ø6.22" x 11.55") 3.2Kg (7.05 lb)	Ø184.9 x 318.8mm (Ø7.28" x 12.55") 5.4Kg (11.90 lb)	Ø158 x 293.3mm (Ø6.22" x 11.55") 3.2Kg (7.05 lb)	Ø184.9 x 318.8mm (Ø7.28" x 12.55") 5.4Kg (11.90 lb)
Additional Features	PTZ PLUS Design applied	Built-in wiper, PTZ PLUS Design applied	PTZ PLUS Design applied	Built-in wiper, PTZ PLUS Design applied

Camera P series

	NEW AI **PNO-A9081R** 4K AI IR Bullet Camera	X PLUS NEW AI **PNV-A9081R** 4K AI IR Vandal Dome Camera	X PLUS NEW AI **PND-A9081RV** 4K AI IR Dome Camera	X PLUS NEW AI **PND-A9081RF** 4K AI IR Dome Camera	NEW AI **PNB-A9001** 4K AI Box Camera
Imaging Device	1/1.8" 8MP CMOS	1/1.8" 8MP CMOS	1/1.8" 8MP CMOS	1/1.8" 8MP CMOS	1/1.8" 8MP CMOS
Min. Illumination	Color : 0.05Lux(F1.6) BW : 0Lux(IR LED on)	Color : 0.05Lux(F1.6) BW : 0Lux(IR LED on)	Color : 0.05Lux(F1.6) BW : 0Lux(IR LED on)	Color : 0.05Lux(F1.6) BW : 0Lux(IR LED on)	Color : 0.03Lux(F1.2, 1/30sec)
Video Output	CVBS : 1.0 Vp-p	CVBS: 1.0 Vp-p	CVBS : 1.0 Vp-p	CVBS : 1.0 Vp-p	CVBS : 1.0 Vp-p
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	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	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	Defocus detection, Motion detection, Tampering, Audio detection, Sound classification, Shock detection	Defocus detection, Motion detection, Tampering, Audio detection, Sound classification, Shock detection
Analytics based on AI engine	Object detection (Person/Face/Vehicle/ License plate), Face mask detection, Directional detection, Digital auto tracking, Enter/Exit, Loitering, Virtual line, Appear / Disappear, Social distancing detection	Object detection (Person/Face/Vehicle/ License plate), Face mask detection, Directional detection, Digital auto tracking, Enter/Exit, Loitering, Virtual line, Appear / Disappear, Social distancing detection	Object detection (Person/Face/Vehicle/ License plate), Face mask detection, Directional detection, Digital auto tracking, Enter/Exit, Loitering, Virtual line, Appear / Disappear, Social distancing detection	Object detection (Person/Face/Vehicle/ License plate), Face mask detection, Directional detection, Digital auto tracking, Enter/Exit, Loitering, Virtual line, Appear / Disappear, Social distancing detection	Object detection (Person/Face/Vehicle/ License plate), Face mask detection, Directional detection, Digital auto tracking, Enter/Exit, Loitering, Virtual line, Appear / Disappear, Social distancing detection
Business Intelligence	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 based on AI engine
Alarm I/O	1 / 1 / DC 12V Power (Max. 50mA) 1ea	1 / 1 / DC 12V Power (Max. 50mA) 1ea	1 / 1 / DC 12V Power (Max. 50mA) 1ea	1 / 1 / DC 12V Power (Max. 50mA) 1ea	1 / 1 / DC 12V Power (Max. 50mA) 1ea
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	WiseStream II	WiseStream II	WiseStream II	WiseStream II	WiseStream II
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 2slots 512GB	Micro SD/SDHC/SDXC 2slots 512GB	Micro SD/SDHC/SDXC 2slots 512GB	Micro SD/SDHC/SDXC 2slots 512GB	Micro SD/SDHC/SDXC 2slots 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	ONVIF Profile S/G/T SUNAPI(HTTP API) Wisenet open platform
Operating Temperature	-40°C ~ +55°C (-40°F ~ +131°F) * Start up above -30°C	-40°C ~ +55°C(-40°F ~ +131°F) * Start up above -30°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, IK10, Plenum rated	-
Power Consumption	PoE+ : Max 20.0W, typical 17.00W 12VDC : Max 18.00W, typical 16.00W	PoE+ : Max 20.00W, typical 17.00W 12VDC : Max 18.70W, typical 15.00W	PoE+ : Max 20.00W, typical 16.00W 12VDC : Max 17.70W, typical 14.00W	PoE+ : Max 20.00W, typical 16.00W 12VDC : Max 17.70W, typical 14.00W	PoE+ : Max 16.50W, typical 12.50W 12VDC : Max 13.50W, typical 10.80W
Dimensions (WxHxD) /Weight	Ø91.0 x 368.6mm (3.58" x 14.51") (Without sunshield), Weight : 2.48Kg (5.47lb)	Ø180 x 125mm(7.09" x 4.92"), Weight : 1.90Kg (4.19lb)	Ø160 x 125mm(6.30" x 4.92"), Weight : 1.60Kg (3.53lb)	Ø205 x 163mm(8.07" x 4.92"), Weight : 1.95Kg (4.30lb)	81 x 67 x 165mm(3.19" x 2.64" x 6.48") Weight : 0.88Kg (1.94lb)
Additional Features	AI : BestShot and Object Attributes Extraction	AI : BestShot and Object Attributes Extraction	AI : BestShot and Object Attributes Extraction	AI : BestShot and Object Attributes Extraction	AI : BestShot and Object Attributes Extraction

Camera P series

	COMING SOON **PNO-A6081R** 2MP AI IR Bullet Camera	COMING SOON X PLUS **PNV-A6081R** 2MP AI IR Vandal Dome Camera	COMING SOON X PLUS **PND-A6081RV** 2MP AI IR Dome Camera	COMING SOON X PLUS **PND-A6081RF** 2MP AI IR Dome Camera	COMING SOON **PNB-A6001** 2MP AI Box Camera
Imaging Device	1/2" 2MP CMOS	1/2" 2MP CMOS	1/2" 2MP CMOS	1/2" 2MP CMOS	1/2" 2MP CMOS
Min. Illumination	Color : 0.008Lux(F1.3) BW : 0Lux(IR LED on)	Color : 0.08Lux(F1.3) BW : 0Lux(IR LED on)	Color : 0.08Lux(F1.3) BW : 0Lux(IR LED on)	Color : 0.08Lux(F1.3) BW : 0Lux(IR LED on)	Color : 0.08Lux(F1.3) BW : 0Lux(IR LED on)
Video Output	CVBS : 1.0 Vp-p, USB: Micro USB Type B	CVBS: 1.0 Vp-p, USB: Micro USB Type B	CVBS : 1.0 Vp-p, USB: Micro USB Type B	CVBS : 1.0 Vp-p, USB: Micro USB Type B	CVBS : 1.0 Vp-p, USB: 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), Wise IR	30m(98.42ft), Wise IR	30m(98.42ft), Wise IR	-
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	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	Defocus detection, Motion detection, Tampering, Audio detection, Sound classification, Shock detection	Defocus detection, Motion detection, Tampering, Audio detection, Sound classification, Shock detection
Analytics based on AI engine	Object detection (Person/Face/Vehicle/ License Plate), Face mask detection, Directional detection, Digital auto tracking, Enter/Exit, Loitering, Virtual line, Appear/ Disappear, Social distancing detection	Object detection (Person/Face/Vehicle/ License Plate), Face mask detection, Directional detection, Digital auto tracking, Enter/Exit, Loitering, Virtual line, Appear/ Disappear, Social distancing detection	Object detection (Person/Face/Vehicle/ License Plate), Face mask detection, Directional detection, Digital auto tracking, Enter/Exit, Loitering, Virtual line, Appear/ Disappear, Social distancing detection	Object detection (Person/Face/Vehicle/ License Plate), Face mask detection, Directional detection, Digital auto tracking, Enter/Exit, Loitering, Virtual line, Appear/ Disappear, Social distancing detection	Object detection (Person/Face/Vehicle/ License Plate), Face mask detection, Directional detection, Digital auto tracking, Enter/Exit, Loitering, Virtual line, Appear/ Disappear, Social distancing detection
Business Intelligence	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 based on AI engine
Alarm I/O	1 / 1 / DC 12V Power (Max. 50mA) 1ea	1 / 1 / DC 12V Power (Max. 50mA) 1ea	1 / 1 / DC 12V Power (Max. 50mA) 1ea	1 / 1 / DC 12V Power (Max. 50mA) 1ea	1 / 1 / DC 12V Power (Max. 50mA) 1ea
Audio I/O	2 / 1 / DC 12V Power (Max. 50mA) 1ea	2 / 1 / DC 12V Power (Max. 50mA) 1ea	2 / 1 / DC 12V Power (Max. 50mA) 1ea	2 / 1 / DC 12V Power (Max. 50mA) 1ea	2 / 1 / DC 12V Power (Max. 50mA) 1ea
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	WiseStream II	WiseStream II	WiseStream II	WiseStream II	WiseStream II
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 2slots 512GB	Micro SD/SDHC/SDXC 2slots 512GB	Micro SD/SDHC/SDXC 2slots 512GB	Micro SD/SDHC/SDXC 2slots 512GB	Micro SD/SDHC/SDXC 2slots 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	ONVIF Profile S/G/T SUNAPI(HTTP API) Wisenet open platform
Operating Temperature	-40°C ~ +55°C (-40°F ~ +131°F) * Start up above -30°C	-40°C ~ +55°C(-40°F ~ +131°F) * Start up above -30°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, IK10, Plenum rated	-
Power Consumption	PoE+ : Max 20.0W, typical 17.00W 12VDC : Max 18.00W, typical 16.00W	PoE+ : Max 20.00W, typical 17.00W 12VDC : Max 18.70W, typical 15.00W	PoE+ : Max 20.00W, typical 16.00W 12VDC : Max 17.70W, typical 14.00W	PoE+ : Max 20.00W, typical 16.00W 12VDC : Max 17.70W, typical 14.00W	PoE+ : Max 16.50W, typical 12.50W 12VDC : Max 13.50W, typical 10.80W
Dimensions (WxHxD) /Weight	Ø91.0 x 368.6mm (3.58" x 14.51") (Without sunshield), Weight : 2.48Kg (5.47lb)	Ø180 x 125mm(7.09" x 4.92"), Weight : 1.90Kg (4.19lb)	Ø160 x 125mm(6.30" x 4.92"), Weight : 1.60Kg (3.53lb)	Ø205 x 163mm(8.07" x 4.92"), Weight : 1.95Kg (4.30lb)	81 x 67 x 165mm(3.19" x 2.64" x 6.48") Weight : 0.88Kg (1.94lb)
Additional Features	AI : BestShot and Object Attributes Extraction	AI : BestShot and Object Attributes Extraction	AI : BestShot and Object Attributes Extraction	AI : BestShot and Object Attributes Extraction	AI : BestShot and Object Attributes Extraction

	NEW	NEW PTRZ	NEW PTRZ	PTRZ	NEW
	PNM-9022V 2MP x 4CH H.265 209˚ Panoramic Camera	**PNM-9085RQZ** 20MP 4CH IR PTRZ Multi-directional Camera	**PNM-9084RQZ** 8MP 4CH IR PTRZ Multi-directional Camera	**PNM-9084QZ** 8MP 4CH Multi-directional Camera	**PNM-8082VT** 6MP 3CH Multi-directional Camera
Imaging Device	1 / 2.8" CMOS x 4CH	1/1.8" 5MP X 4CH	1/2.8" 2MP X 4CH	1/2.8" 2MP CMOS x 4CH	1/2.8" 2MP CMOS x 3CH
Min. Illumination	Color : 0.1Lux (F1.6, 1/30sec) B/W : 0.01Lux (F1.6, 1/30sec)	Color : 0.11lux(F1.6) BW : 0Lux(IR LED on)	Color : 0.05lux(F1.6) BW : 0Lux(IR LED on)	Color : 0.08lux(F2.2) BW : 0.008lux(F2.2)	Color : 0.04lux(F2.2) BW : 0.004lux(F2.2)
Video Output	Micro USB Type B	-	-	-	CVBS 1.0 Vp-p
Focal Length	2.8mm fixed focal x 4	4.13~9.4mm(2.3x) motorized varifocal	3.2~10mm(3.1x) motorized varifocal	3 ~ 6mm (2x) motorized varifocal	3 ~ 6mm (2x) motorized varifocal
Angular Field of View	H : 209˚/180° / V : 83.3˚	H : 87.58°(Wide)~37.34°(Tele) / V : 64.58°(Wide)~28.04°(Tele) / D : 112.46°(Wide)~46.85°(Tele)	H : 109.0°(Wide)~33.2°(Tele) / V : 57.4°(Wide)~18.7°(Tele) / D : 132.0°(Wide)~38.0°(Tele)	H : 107˚ (Wide) ~ 56.3˚ (Tele) / V : 57˚ (Wide) ~ 31.5˚ (Tele) / D : 126˚ (Wide) ~ 64.3˚ (Tele)	H : 107˚ (Wide) ~ 56.3˚ (Tele) / V : 57˚ (Wide) ~ 31.5˚ (Tele) / D : 126˚ (Wide) ~ 64.3˚ (Tele)
Pan / Tilt / Rotate	0° ~ 355° / 0° ~ 60° / -	0~360˚ / 35~80˚ / 0~90˚	0~360˚ / 30~80˚ / 0~90˚	0° ~ 360˚ / 0° ~ 90˚ / 0° ~ 90˚	0° ~ 360˚ / 0° ~ 73˚ / 0° ~ 90˚
IR Viewable Length	-	30m(98.42ft)	30m(98.42ft)	-	-
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Wide Dynamic Range	extreme WDR (120dB)	120dB	120dB	120dB	150dB (eXtreme WDR)
Digital Noise Reduction	SSNRV	SSNRV	SSNRV	SSNRV	SSNRV
Digital Image Stabilization	-	Support	Support	Support	Support
Analytics	Defocus detection, Motion detection, Appear / Disappear, Enter/Exit, Tampering, Virtual line, Audio detection	Intelligent analytics Audio detection	Intelligent analytics Audio detection	Intelligent analytics Audio detection	Intelligent analytics
Business Intelligence	Heatmap	-	-	-	-
Alarm I/O	2 / 2	1 / 1	1 / 1	1 / 1	1 / 1
Audio I/O	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
Resolution / Max. Frame Rate	8.3MP / 7.3MP / 30fps	5MP / 30fps	2MP / 60fps	2MP / 60fps	2MP / 30fps
WiseStream	WiseStream II	WiseStream II	WiseStream II	WiseStream II	WiseStream II
Streaming	Up to10 Profiles	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles	Up to 10 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/T, SUNAPI, Wisenet Open Platform	ONVIF profile S/T, SUNAPI, Wisenet Open Platform	ONVIF profile S/T, SUNAPI, Wisenet Open Platform	ONVIF profile S/T, SUNAPI, Wisenet Open Platform	ONVIF profile S/T, SUNAPI
Operating Temperature	-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) * Start up above -35°C (-31°F)	-40°C ~ +55°C (-40°F ~ +131°F) * Start up above -35°C (-31°F)
Certification	IP66, IK10, NEMA4X	IP66, IK10, NEMA4X	IP66, IK10, NEMA4X	IP66, IK10, NEMA4X	IP66, IK10, NEMA4X
Power Consumption	PoE+ : Max 18W, Typical 10.4W 12VDC : Max 16W, Typical 9W	Max : 45W Typical : 32W HPoE	Max : 45W Typical : 32W HPoE	HPoE : Max. 33W Typical : 20W	PoE+: Max 16.5W
Dimensions (WxHxD) /Weight	Ø253 x 165mm (Ø9.96" x 6.5") 3200g (7.05lb)	Ø315 x 145.9mm (12.4" x 5.74")	Ø315 x 145.9mm (12.4" x 5.74") 5.2kg (11.46lb)	Ø251 x 116.5mm (Ø9.88" x 4.59") 3Kg (6.6 lb)	Ø251 x 116.5mm (Ø9.88" x 4.59") 3Kg (6.6 lb)
Additional Features	Digital PTZ Support	Motorized PTRZ	Motorized PTRZ	Hallway view, Defog	Hallway view, Defog

Camera P series

	NEW **PNM-9322VQP** 10MP-22MP Multi-directional + 2MP PTZ	NEW **SLA-5M7000P** 5MP lens for PNM-9322VQP	NEW **SLA-5M4600P** 5MP lens for PNM-9322VQP	NEW **SLA-5M3700P** 5MP lens for PNM-9322VQP	NEW **SLA-2M6000P** 2MP lens for PNM-9322VQP
Imaging Device	1~4CH: Optional lens / 5CH: 1/2.8" CMOS	1/1.8" 5MP CMOS	1/1.8" 5MP CMOS	1/1.8" 5MP CMOS	1/2.8" 5MP CMOS
Min. Illumination	Color : 0.05Lux (F1.6) BW : 0.005Lux (F1.6) (PTZ)	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)	Color : 0.055Lux (F2.0) B/W : 0.055Lux (F2.0)
Video Output	CVBS 1.0 Vp-p (Multi)	-	-	-	-
Focal Length	1~4CH: Optional lens 5CH: 4.44~142.6mm (32x) zoom	7.0mm fixed	4.6mm fixed	3.7mm fixed	6.0mm fixed
Angular Field of View	H : 61.8°(Wide) ~ 2.19° (Tele) / V : 36.2° (Wide) ~ 1.24° (Tele)	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°	H : 50.4° / V : 28.8° / D : 58.1°
Pan / Tilt / Rotate	360° Endless / 190° (-5° ~ 185°)	±90° / +12° ~ +93° / ±180°	±90° / +21° ~ +85° / ±180°	±90° / +36° ~ +73° / ±180°	±90° / +10° ~ +95° / ±180°
IR Viewable Length	-	-	-	-	-
Day & Night	1~4CH: Auto (Electrical), 5CH: Auto (ICR)	Auto (Electrical)	Auto (Electrical)	Auto (Electrical)	Auto (Electrical)
Wide Dynamic Range	150dB (2MP), 120dB (5MP)	120dB	120dB	120dB	150dB
Digital Noise Reduction	SSNRV	-	-	-	-
Digital Image Stabilization	Support	-	-	-	-
Analytics	Intelligent analytics	-	-	-	-
Business Intelligence	-	-	-	-	-
Alarm I/O	1 / 2	-	-	-	-
Audio I/O	-	-	-	-	-
Video Compression	H.265, H.264, MJPEG	-	-	-	-
Resolution / Max. Frame Rate	5MP / 30fps, 2MP / 60fps	-	-	-	-
WiseStream	WiseStream II	-	-	-	-
Streaming	Up to 10 Profiles	-	-	-	-
Edge Storage	Micro SD/SDHC/SDXC	-	-	-	-
Application Programming Interface	ONVIF Profile S/T, SUNAPI (HTTP API)	-	-	-	-
Operating Temperature	-40°C ~ +55°C (-40°F ~ +131°F)	-	-	-	-
Certification	IP66, IK10	-	-	-	-
Power Consumption	HPoE : Max 65W, Typical 34W	-	-	-	-
Dimensions (WxHxD) / Weight	Ø367.8 x 335.7mm (Ø144.8" x 132.2") 7.05kg (15.54 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)	Ø35.5 x 35.9 mm (Ø1.39" x 1.41") 30g (0.07 lb)
Additional Features	Exchangeable 4ea x 2MP / 5MP lens modules	-	-	-	-

	NEW **SLA-2M3600P** 2MP lens for PNM-9322VQP	NEW **SLA-2M2800P** 2MP lens for PNM-9322VQP	NEW **SLA-2M2400P** 2MP lens for PNM-9322VQP	NEW **SLA-2M1200P** 2MP lens for PNM-9322VQP
Imaging Device	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP 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	3.6mm fixed	2.8mm fixed	2.4mm fixed	12mm fixed
Angular Field of View	H : 94.8˚ / V : 49.3˚ / D : 114.3˚	H : 107.4˚ / V : 62.2˚ / D : 122.0˚	H : 135.4˚ / V : 71.2˚ / D : 161.6˚	H : 26.3˚ / V : 14.9˚ / D : 30.0˚
Pan / Tilt / Rotate	±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)
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 (0.07 lb)	Ø35.5 x 35.9 mm (Ø1.39" x 1.41") 30g (0.07 lb)	Ø35.5 x 35.9 mm (Ø1.39" x 1.41") 30g (0.07 lb)	Ø35.5 x 35.9 mm (Ø1.39" x 1.41") 30g (0.07 lb)
Additional Features	-	-	-	-

Camera P series

	NEW **PNM-9002VQS** 8MP-20MP Stainless Steel Multi-directional	NEW **SLA-5M7000Q** 5MP lens for PNM-9002VQS	NEW **SLA-5M4600Q** 5MP lens for PNM-9002VQS	NEW **SLA-5M3700Q** 5MP lens for PNM-9002VQS
Imaging Device	4ea x 2MP / 5MP	1/1.8" 5MP CMOS	1/1.8" 5MP CMOS	1/1.8" 5MP CMOS
Min. Illumination	Color : 0.05Lux (F1.6) BW : 0.005Lux (F1.6) (PTZ)	Color : 0.16Lux (F1.6) B/W : 0.16Lux (F1.6)	Color : 0.16Lux (F1.6) B/W : 0.16Lux (F1.6)	Color : 0.055Lux (F2.0) B/W : 0.055Lux (F2.0)
Video Output	CVBS 1.0 Vp-p	-	-	-
Focal Length	1~4CH: Optional lens 5CH: 4.44~142.6mm (32x) zoom	7.0mm	4.6mm	3.7mm
Angular Field of View	H : 61.8°(Wide) ~ 2.19° (Tele) / V : 36.2° (Wide) ~ 1.24° (Tele)	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° / +90° / 40°~89° / -180° / +180°	-90° / +90° / 50°~80° / -180° / +180°	-90° / +90° / 59°~66° / -180° / +180°
IR Viewable Length	-	-	-	-
Day & Night	1~4CH: Auto (Electrical), 5CH: Auto (ICR)	Electrical	Electrical	Electrical
Wide Dynamic Range	150dB (2MP), 120dB (5MP)	120dB	120dB	120dB
Digital Noise Reduction	SSNRV	-	-	-
Digital Image Stabilization	Support	-	-	-
Analytics	Intelligent analytics	-	-	-
Business Intelligence	-	-	-	-
Alarm I/O	1 / 2	-	-	-
Audio I/O	-	-	-	-
Video Compression	H.265, H.264, MJPEG	-	-	-
Resolution / Max. Frame Rate	5MP / 30fps, 2MP / 60fps	-	-	-
WiseStream	WiseStream II	-	-	-
Streaming	Multiple Streaming (Up to 10 Profiles)	-	-	-
Edge Storage	SD/SDHC/SDXC	-	-	-
Application Programming Interface	ONVIF Profile S/T, SUNAPI (HTTP API)	-	-	-
Operating Temperature	-40°C ~ +55°C (-40°F ~ +131°F)	-	-	-
Certification	IP6K9K, IP66, IK10	-	-	-
Power Consumption	Max 25.5W	-	-	-
Dimensions (WxHxD) /Weight	Ø130 x 253mm (Ø12.375" x 7.52") 1.5" NPT	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	Stainless steel housing for harsh environments, 1.5" NPT hanging mount	-	-	-

	SLA-2M6000Q 2MP lens for PNM-9002VQS	**SLA-2M3600Q** 2MP lens for PNM-9002VQS	**SLA-2M2800Q** 2MP lens for PNM-9002VQS	**SLA-2M2400Q** 2MP lens for PNM-9002VQS
Imaging Device	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP 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	3.6mm	2.8mm	2.4mm
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 : 122.0˚	H : 135.4˚ / V : 71.2˚ / D : 161.6˚
Pan / Tilt / Rotate	-90° / +90˚ / 30°~89° / -180˚ / +180˚	-90° / +90˚ / 37°~89° / -180˚ / +180˚	-90° / +90˚ / 40°~89° / -180˚ / +180˚	-90° / +90˚ / 62° / -180˚ / +180˚
IR Viewable Length	-	-	-	-
Day & Night	Electrical	Electrical	Electrical	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 (0.07 lb)	Ø35.5 x 35.9 mm (Ø1.39" x 1.41") 30g (0.07 lb)	Ø35.5 x 35.9 mm (Ø1.39" x 1.41") 30g (0.07 lb)	Ø35.5 x 35.9 mm (Ø1.39" x 1.41") 30g (0.07 lb)
Additional Features	-	-	-	-

Camera P series

	PNM-9000VD 10MP 2CH Multi-directional Camera	**SLA-5M7000D** 5MP lens for PNM-9000VD	**SLA-5M4600D** 5MP lens for PNM-9000VD	**SLA-5M3700D** 5MP lens for PNM-9000VD
Imaging Device	-	1/1.8" 5MP CMOS	1/1.8" 5MP CMOS	1/1.8" 5MP 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 1.0 Vp-p	-	-	-
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° / 36˚ ~ 73˚ / ±180˚	±90° / 36˚ ~ 73˚ / ±180˚	±90° / 36˚ ~ 73˚ / ±180˚
IR Viewable Length	-	-	-	-
Day & Night	Auto (Electrical)	Auto (Electrical)	Auto (Electrical)	Auto (Electrical)
Wide Dynamic Range	120dB	120dB	120dB	120dB
Digital Noise Reduction	SSNRV	-	-	-
Digital Image Stabilization	Support	-	-	-
Analytics	Intelligent analytics	-	-	-
Business Intelligence	-	-	-	-
Alarm I/O	-	-	-	-
Audio I/O	-	-	-	-
Video Compression	H.265, H.264, MJPEG	-	-	-
Resolution / Max. Frame Rate	5MP / 30fps	-	-	-
WiseStream	WiseStream II	-	-	-
Streaming	Up to 10 Profiles	-	-	-
Edge Storage	Micro SD/SDHC/SDXC	-	-	-
Application Programming Interface	ONVIF Profile S/G, SUNAPI, Wisenet open platform	-	-	-
Operating Temperature	-40°C ~ +55°C (-40°F ~ +131°F)	-	-	-
Certification	IP66, IK10	-	-	-
Power Consumption	PoE : 12.95W	-	-	-
Dimensions (WxHxD) / Weight	Ø197.6 x 84mm (Ø7.78" x 3.31") 1250g (2.76 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 2ea x 5MP lens modules, Hallway view, Defog	-	-	-

	NEW **PNM-7002VD** 2MP 2CH Multi-directional Camera	NEW **SLA-2M6002D** 2MP lens for PNM-7002VD	NEW **SLA-2M3602D** 2MP lens for PNM-7002VD	NEW **SLA-2M2802D** 2MP lens for PNM-7002VD	NEW **SLA-2M2402D** 2MP lens for PNM-7002VD
Imaging Device	-	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP 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	CVBS 1.0 Vp-p	-	-	-	-
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 : 122.0˚	H : 135.4˚ / V : 71.2˚ / D : 161.6˚
Pan / Tilt / Rotate	-	±176° / 0° ~ 65° / ±90°	±176° / 0° ~ 54° / ±90°	±176° / 0° ~ 50° / ±90°	±176° / 0° ~ 30° / ±90°
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	SSNRV	-	-	-	-
Digital Image Stabilization	Support	-	-	-	-
Analytics	Intelligent analytics	-	-	-	-
Business Intelligence	-	-	-	-	-
Alarm I/O	-	-	-	-	-
Audio I/O	-	-	-	-	-
Video Compression	H.265, H.264, MJPEG	-	-	-	-
Resolution / Max. Frame Rate	2MP / 60fps	-	-	-	-
WiseStream	WiseStream II	-	-	-	-
Streaming	Up to 10 Profiles	-	-	-	-
Edge Storage	SD/SDHC/SDXC	-	-	-	-
Application Programming Interface	ONVIF Profile S/T, SUNAPI	-	-	-	-
Operating Temperature	-40°C ~ +55°C (-40°F ~ +131°F)	-	-	-	-
Certification	IP66, IK10	-	-	-	-
Power Consumption	PoE : 12.95W	-	-	-	-
Dimensions (WxHxD) / Weight	Ø197.6 x 84.0mm (Ø7.78" x 3.31") 1250g (2.76 lb)	Ø35.5 x 27.9mm (Ø1.4" x 1.1") 27g (0.06 lb)	Ø35.5 x 27.9mm (Ø1.4" x 1.1") 27g (0.06 lb)	Ø35.5 x 27.9mm (Ø1.4" x 1.1") 27g (0.06 lb)	Ø35.5 x 27.9mm (Ø1.4" x 1.1") 27g (0.06 lb)
Additional Features	Exchangeable 2ea x 2MP lens modules	-	-	-	-

Camera P series

	NEW **PNM-9000QB** 2MP x 4CH Remote Head Camera	 **SLA-T4680VA** 2MP lens for PNM-9000QB	 **SLA-T4680A** 2MP lens for PNM-9000QB	 **SLA-T2480VA** 2MP lens for PNM-9000QB	 **SLA-T2480A** 2MP lens for PNM-9000QB	 **SLA-T1080FA** 2MP lens for PNM-9000QB
Imaging Device	2MP x 4CH	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS
Min. Illumination	-	Color : 0.06Lux (F2.5)	Color : 0.06Lux (F2.5)	Color : 0.045Lux (F2.0)	Color : 0.045Lux (F2.0)	Color : 0.03Lux (F1.6)
Video Output	HDMI	-	-	-	-	-
Focal Length	-	4.6mm fixed focal	4.6mm fixed focal	2.4mm fixed focal	2.4mm fixed focal	1.6mm fixed focal
Angular Field of View	-	H : 73˚ / V : 39˚ / D : 85˚	H : 73˚ / V : 39˚ / D : 85˚	H : 138˚ / V : 73˚ / D : 165˚	H : 138˚ / V : 73˚ / D : 165˚	H : 187˚ / V : 118.9˚
Pan / Tilt / Rotate	-	-	-	-	-	-
IR Viewable Length	-	-	-	-	-	-
Day & Night	Auto (Electrical)	-	-	-	-	-
Wide Dynamic Range	120dB	-	-	-	-	-
Digital Noise Reduction	SSNRV	-	-	-	-	-
Digital Image Stabilization	Support	-	-	-	-	-
Analytics	Intelligent analytics	-	-	-	-	-
Business Intelligence	-	-	-	-	-	-
Alarm I/O	2 / 2	-	-	-	-	-
Audio I/O	-	-	-	-	-	-
Video Compression	H.265, H.264, MJPEG	-	-	-	-	-
Resolution / Max. Frame Rate	2MP / 30fps	-	-	-	-	-
WiseStream	WiseStream II	-	-	-	-	-
Streaming	Unicast (20 Users) Multiple streaming (Up to 12 profiles)	-	-	-	-	-
Edge Storage	Micro SD/SDHC/SDXC	-	-	-	-	-
Application Programming Interface	ONVIF Profile S/T, SUNAPI (HTTP API)	-	-	-	-	-
Operating Temperature	-10°C ~ +45°C (-40°F ~ +131°F)	-	-	-	-	-
Certification	-	-	-	-	-	-
Power Consumption	PoE: Max 22W, Typical 16.70W DC: Max 19W, Typical: 14W	-	-	-	-	-
Dimensions (WxHxD) /Weight	7.87" (200mm) W x 1.45" (37mm) H x 5.74" (146mm) D / 1.57lbs (715g)	W30XH27.9xD45mm 321g	Ø24 x L49.8 mm 310g	W30XH27.9xD45mm 328g	Ø24 x L49.8 mm 318g	Ø35 x 68.9 mm 430g
Additional Features	HDMI - Single / Quad view support	Max Aperature Ratio: F2.5, RJ12 connected with main unit	Max Aperature Ratio: F2.5, RJ12 connected with main unit	Max Aperature Ratio: F2.0, RJ12 connected with main unit	Max Aperature Ratio: F2.0, RJ12 connected with main unit	Max Aperature Ratio: F1.6, RJ12 connected with main unit

	QNO-8080R 5MP IR Bullet Camera	QNO-8030R 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" 5MP CMOS	1/2.8" 5MP CMOS	1/2.8" 5MP CMOS	1/2.8" 5MP CMOS	1/2.8" 5MP CMOS
Min. Illumination	Color : 0.2Lux (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)	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 0.15 Vp-p	CVBS 1.0 Vp-p	CVBS 1.0 Vp-p	CVBS 1.0 Vp-p	CVBS 1.0 Vp-p
Focal Length	3.2 ~ 10mm (3.1x) motorized varifocal	6.0mm fixed	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 : 49.4° / V : 37.4° / D : 61.0°	H : 79.8° / V : 58.1° / D : 105.9°	H : 104.7° / V : 76.5° / D : 136.0°	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)	30m (98.42ft)	25m (82.02ft)	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	Intelligent analytics	Intelligent analytics	Intelligent analytics	Intelligent analytics	Intelligent analytics
Business Intelligence	-	-	-	-	-
Alarm I/O	1 / 1	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	H.265, H.264, MJPEG
Resolution / Max. Frame Rate	5MP / 30fps	5MP / 30fps	5MP / 30fps	5MP / 30fps	5MP / 30fps
WiseStream	WiseStream II	WiseStream II	WiseStream II	WiseStream II	WiseStream II
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, 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	-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)	-10°C ~ +50°C (+14°F ~ +122°F)
Certification	IP66, IK10	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 7.5W, typical 6.1W	PoE : Max 8.9W, typical 6.6W
Dimensions (WxHxD) / Weight	Ø91 x 322.9mm (Ø3.58" x 12.71") 1190g (2.624 lb)	Ø70.0 x 246.0mm (Ø2.76" x 9.69") 680g (1.499 lb)	Ø70.0 x 246.0mm (Ø2.76" x 9.69") 680g (1.499 lb)	Ø70.0 x 246.0mm (Ø2.76" x 9.69") 680g (1.499 lb)	Ø120.3 x 102.0mm (Ø4.74" x 4.02") 430g (0.948 lb)
Additional Features	Hallway View	Hallway View	Hallway View	Hallway View	Hallway View

Camera Q series

	QND-8030R 5MP IR Dome Camera	**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" 5MP CMOS	1/2.8" 5MP CMOS	1/2.8" 5MP CMOS	1/2.8" 5MP CMOS	1/2.8" 5MP CMOS
Min. Illumination	Color : 0.15Lux (F2.0) 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)	Color : 0.15Lux (F2.0)
Video Output	CVBS 1.0 Vp-p	CVBS 1.0 Vp-p	CVBS 1.0 Vp-p	Micro HDMI	Micro HDMI
Focal Length	6.0mm fixed	4.0mm fixed	2.8mm fixed	4mm fixed	2.8mm fixed
Angular Field of View	H : 49.4° / V : 37.4° / D : 61.0°	H : 79.8° / V : 58.1° / D : 105.9°	H : 104.7° / V : 76.5° / D : 136.0°	H : 80.1° / V : 58.0° / 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° ~ 67° / 0° ~ 355°	0° ~ 350° / 0° ~ 69° / 0° ~ 355°	0° ~ 350° / 0° ~ 69° / 0° ~ 355°
IR Viewable Length	20m (65.62ft)	20m (65.62ft)	20m (65.62ft)	-	-
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (Electrical)	Auto (Electrical)
Wide Dynamic Range	120dB	120dB	120dB	120dB	120dB
Digital Noise Reduction	SSNR	SSNR	SSNR	SSNR	SSNR
Digital Image Stabilization	-	-	-	-	-
Analytics	Intelligent analytics	Intelligent analytics	Intelligent analytics	Intelligent analytics	Intelligent analytics
Business Intelligence	-	-	-	People counting	People counting
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	H.265, H.264, MJPEG
Resolution / Max. Frame Rate	5MP / 30fps	5MP / 30fps	5MP / 30fps	5MP / 30fps	5MP / 30fps
WiseStream	WiseStream II	WiseStream II	WiseStream II	WiseStream II	WiseStream II
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, 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	-10°C ~ +50°C (+14°F ~ +122°F)	-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 5.0W	PoE : Max 6.8W, typical 5.0W	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 (0.794 lb)	Ø110.6 x 89.5mm (Ø4.35" x 3.52") 360g (0.794 lb)	Ø110.6 x 89.5mm (Ø4.35" x 3.52") 360g (0.794 lb)	Ø99 x 56mm (Ø3.9" x 2.2") 165g (0.364 lb)	Ø99 x 56mm (Ø3.9" x 2.2") 165g (0.364 lb)
Additional Features	Hallway View	Hallway View	Hallway View	Super compact design, Hallway View	Super compact design, Hallway View

	QNV-8080R 5MP IR Vandal Dome Camera	QNV-8030R 5MP IR Vandal Dome Camera	QNV-8020R 5MP IR Vandal Dome Camera	QNV-8010R 5MP IR Vandal Dome Camera	QNE-8021R 5MP IR Flateye Camera
Imaging Device	1/2.8" 5MP CMOS	1/2.8" 5MP CMOS	1/2.8" 5MP CMOS	1/2.8" 5MP CMOS	1/2.8" 5MP 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) 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 1.0 Vp-p	CVBS 1.0 Vp-p	CVBS 1.0 Vp-p	CVBS 1.0 Vp-p	CVBS 1.0 Vp-p
Focal Length	3.2 ~ 10mm (3.1x) motorized varifocal	6.0mm fixed	4.0mm fixed	2.8mm fixed	4.0mm 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 : 49.4° / V : 37.4° / D : 61.0°	H : 79.8° / V : 58.1° / D : 105.9°	H : 79.8° / V : 58.1° / D : 105.9°	H : 80.1° / V : 58.0° / D : 105.8°
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°	0° ~ 350° / 0° ~ 75° / 0° ~ 360°
IR Viewable Length	30m (98.42ft)	30m (98.42ft)	25m (82.02ft)	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	Intelligent 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	H.265, H.264, MJPEG
Resolution / Max. Frame Rate	5MP / 30fps	5MP / 30fps	5MP / 30fps	5MP / 30fps	5MP / 30fps
WiseStream	WiseStream II	WiseStream II	WiseStream II	WiseStream II	WiseStream II
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, 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	-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)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -20°C (-4°F)
Certification	IP66, IK10	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 7.2W, typical 5.4W	PoE : Max 7.5W, typical 5.8W	PoE : Max 7.4W, typical 5.5W
Dimensions (WxHxD) / Weight	Ø137.0 x 106.1mm (Ø5.39" x 4.18") 700g (1.543 lb)	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)	Ø120.3 x 91.7mm (Ø4.74" x 3.61") 510g (1.124 lb)	Ø125 x 87.35mm (Ø4.92" x 3.44") 645g (1.422 lb)
Additional Features	Hallway View	Hallway View	Hallway View	Hallway View	Hallway View

Camera Q series

	QNE-8011R 5MP IR Flateye Camera	QNO-6082R 2MP IR Bullet Camera	QNO-6032R 2MP IR Bullet Camera	QNO-6022R 2MP IR Bullet Camera	QNO-6012R 2MP IR Bullet Camera
Imaging Device	1/2.8" 5MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS
Min. Illumination	Color : 0.15Lux (F2.0) B/W : 0Lux (IR LED on)	Color : 0.095Lux (F1.6) B/W : 0Lux (IR LED on)	Color : 0.1Lux (F2.0) B/W : 0Lux (IR LED on)	Color : 0.1Lux (F1.6) B/W : 0Lux (IR LED on)	Color : 0.1Lux (F2.0) B/W : 0Lux (IR LED on)
Video Output	CVBS 1.0 Vp-p	CVBS 1.0 Vp-p	CVBS 1.0 Vp-p	CVBS 1.0 Vp-p	CVBS 1.0 Vp-p
Focal Length	2.8mm fixed	3.2 ~ 10mm (3.1x) motorized varifocal	6mm fixed	4mm fixed	2.8mm fixed
Angular Field of View	H : 104.4° / V : 76.7° / D : 136.1°	H : 109.0° (Wide) ~ 33.2° (Tele) / V : 57.4° (Wide) ~ 18.7° (Tele) / D : 132.0° (Wide) ~ 38.0° (Tele) /	H : 52.8° / V : 30.3° / D : 60.4°	H : 87.6° / V : 46.4° / D : 104.5°	H : 113.74° / V : 61.5° / D : 134.45°
Pan / Tilt / Rotate	0˚ ~ 350˚ / 0˚ ~ 75˚ / 0˚ ~ 360˚	-	-	-	-
IR Viewable Length	20m (65.62ft)	30m (98.43ft)	30m (98.43ft)	25m (82.02ft)	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	Intelligent 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	H.265, H.264, MJPEG
Resolution / Max. Frame Rate	5MP / 30fps	2MP / 30fps	2MP / 30fps	2MP / 30fps	2MP / 30fps
WiseStream	WiseStream II	WiseStream II	WiseStream II	WiseStream II	WiseStream II
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, 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	-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)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -20°C (-4°F)
Certification	IP67, IK10	IP66, IK10	IP66, IK10	IP66, IK10	IP66, IK10
Power Consumption	PoE : Max 7.4W, typical 5.5W	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	PoE : Max 7W, typical 5.2W 12VDC : Max 6.1W, typical 4.5W
Dimensions (WxHxD) / Weight	Ø125 x 87.35mm (Ø4.92" x 3.44") 645g (1.422 lb)	Ø78.0 x 259.8mm (Ø3.07" x 10.23") 900g (1.984 lb)	Ø70.0 x 246.0mm (Ø2.76" x 9.69") 700g (1.543 lb)	Ø70.0 x 246.0mm (Ø2.76" x 9.69") 700g (1.543 lb)	Ø70.0 x 246.0mm (Ø2.76" x 9.69") 700g (1.543 lb)
Additional Features	Hallway View	Hallway View	Hallway View	Hallway View	Hallway View

	QND-6082R 2MP IR Dome Camera	**QND-6032R** 2MP IR Dome Camera	**QND-6022R** 2MP IR Dome Camera	**QND-6012R** 2MP IR Dome Camera	Q mini **QND-6021** 2MP Dome Camera
Imaging Device	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS
Min. Illumination	Color : 0.095Lux (F1.6) B/W : 0Lux (IR LED on)	Color : 0.1Lux (F2.0) B/W : 0Lux (IR LED on)	Color : 0.1Lux (F1.6) B/W : 0Lux (IR LED on)	Color : 0.1Lux (F2.0) B/W : 0Lux (IR LED on)	Color : 0.1Lux (F1.6)
Video Output	CVBS 1.0 Vp-p	CVBS 1.0 Vp-p	CVBS 1.0 Vp-p	CVBS 1.0 Vp-p	Micro HDMI
Focal Length	3.2 ~10mm (3.1x) motorized varifocal	6mm fixed	4mm fixed	2.8mm fixed	4mm fixed
Angular Field of View	H : 109.0° (Wide) ~ 33.2° (Tele) / V : 57.4° (Wide) ~ 18.7° (Tele) / D : 132.0° (Wide) ~ 38.0° (Tele)	H : 52.8° / V : 30.3° / D : 60.4°	H : 87.6° / V : 46.4° / D : 104.5°	H : 113.74° / V : 61.5° / D : 134.45°	H : 87.6° / V : 46.4° / D : 104.5°
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°	0°~ 350° / 0°~ 69° / 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)	Auto (Electrical)
Wide Dynamic Range	120dB	120dB	120dB	120dB	120dB
Digital Noise Reduction	SSNR	SSNR	SSNR	SSNR	SSNR
Digital Image Stabilization	-	-	-	-	-
Analytics	Intelligent analytics	Intelligent analytics	Intelligent analytics	Intelligent analytics	Intelligent analytics
Business Intelligence	-	-	-	-	People counting
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	H.265, H.264, MJPEG
Resolution / Max. Frame Rate	2MP / 30fps	2MP / 30fps	2MP / 30fps	2MP / 30fps	2MP / 30fps
WiseStream	WiseStream II	WiseStream II	WiseStream II	WiseStream II	WiseStream II
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, 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	-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)	-10°C ~ +55°C (+14°F ~ +131°F)
Certification	-	-	-	-	IP42, IK08
Power Consumption	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	PoE : Max 7.4W, typical 6W 12VDC : Max 6.4W, typical 5.1W	PoE : Max 4.8W, typical 2.8W
Dimensions (WxHxD) / Weight	Ø119.8 x 98.8mm (Ø4.72" x 3.89") 320g (0.705 lb)	Ø110.0 x 86.0mm (Ø4.33" x 3.39") 255g (0.562 lb)	Ø110.0 x 86.0mm (Ø4.33" x 3.39") 255g (0.562 lb)	Ø110.0 x 86.0mm (Ø4.33" x 3.39") 255g (0.562 lb)	Ø99 x 56mm (Ø3.9" x 2.2") 145g (0.320 lb)
Additional Features	Hallway View	Hallway View	Hallway View	Hallway View	Super compact design, Hallway View

Camera Q series

	Q mini				
	QND-6011 2MP Dome Camera	**QNV-6082R** 2MP IR Vandal Dome Camera	**QNV-6032R** 2MP IR Vandal Dome Camera	**QNV-6022R** 2MP IR Vandal Dome Camera	**QNV-6012R** 2MP IR Vandal Dome Camera
Imaging Device	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS
Min. Illumination	Color : 0.1Lux (F2.0)	Color : 0.095Lux (F1.6) B/W : 0Lux (IR LED on)	Color : 0.1Lux (F2.0) B/W : 0Lux (IR LED on)	Color : 0.1Lux (F1.6) B/W : 0Lux (IR LED on)	Color : 0.1Lux (F2.0) B/W : 0Lux (IR LED on)
Video Output	Micro HDMI	CVBS 1.0 Vp-p	CVBS 1.0 Vp-p	CVBS 1.0 Vp-p	CVBS 1.0 Vp-p
Focal Length	2.8mm fixed	3.2 ~ 10mm (3.1x) motorized varifocal	6mm fixed	4mm fixed	2.8mm fixed
Angular Field of View	H : 113.74° / V : 61.5° / D : 134.45°	H : 109.0° (Wide) ~ 33.2° (Tele) / V : 57.4° (Wide) ~ 18.7° (Tele) / D : 132.0° (Wide) ~ 38.0° (Tele)	H : 52.8° / V : 30.3° / D : 60.4°	H : 87.6° / V : 46.4° / D : 104.5°	H : 113.74° / V : 61.5° / D : 134.45°
Pan / Tilt / Rotate	0° ~ 350° / 0° ~ 69° / 0° ~ 355°	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	-	30m (98.42ft)	30m (98.42ft)	25m (82.02ft)	20m (65.62ft)
Day & Night	Auto (Electrical)	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	Intelligent analytics	Intelligent analytics	Intelligent analytics	Intelligent analytics	Intelligent analytics
Business Intelligence	People counting	-	-	-	-
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	H.265, H.264, MJPEG
Resolution / Max. Frame Rate	2MP / 30fps	2MP / 30fps	2MP / 30fps	2MP / 30fps	2MP / 30fps
WiseStream	WiseStream II	WiseStream II	WiseStream II	WiseStream II	WiseStream II
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, 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	-10°C ~ +55°C (+14°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)	-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	IP42, IK08	IP66, IK10	IP66, IK10	IP66, IK10	IP66, IK10
Power Consumption	PoE : Max 4.8W, typical 2.8W	PoE : Max 7.7W, typical 6W 12VDC : Max 6.5W	PoE : Max 7.4W, typical 6W 12VDC : Max 6.4W	PoE : Max 7.4W, typical 6W 12VDC : Max 6.4W	PoE : Max 7.4W, typical 6W 12VDC : Max 6.4W
Dimensions (WxHxD) / Weight	Ø99 x 56mm (Ø3.9" x 2.2") 145g (0.320 lb)	Ø137.0 x 106.1mm (Ø5.39" x 4.18") 710g (1.565 lb)	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)	Ø120.3 x 91.7mm (Ø4.74" x 3.61") 510g (1.124 lb)
Additional Features	Super compact design, Hallway View	Hallway View	Hallway View	Hallway View	Hallway View

Camera Q series

	NEW				Q mini NEW	Q mini
	QNV-6024RM 2MP IR Flat Camera	**QNV-6023R** 2MP IR Flat Camera	**QNP-6230H/6230** 2MP 23x PTZ Camera	**QNP-6230RH** 2MP 23x IR PTZ Camera	**QNF-9010** 12MP Fisheye Camera	**QNF-8010** 6MP Fisheye Camera
Imaging Device	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2.4MP CMOS	1/2.8" 2MP CMOS	1/2.3" 12MP CMOS	1/1.8" 6MP CMOS
Min. Illumination	Color : 0.03Lux (F2.0) B/W : 0Lux (IR LED on)	Color : 0.03Lux (F2.0) B/W : 0Lux (IR LED on)	Color : 0.2Lux (F1.6) B/W : 0.01Lux (F1.6)	Color : 0.05Lux (F1.6) B/W : 0Lux (IR LED on)	Color : 0.19 Lux (F2.2)	Color : 0.2 Lux (F2.5)
Video Output	CVBS 1.0 Vp-p	CVBS 1.0 Vp-p	CVBS 1.0 Vp-p	CVBS 1.0 Vp-p	CVBS 1.0 Vp-p	CVBS 1.0 Vp-p
Focal Length	3.6mm fixed	3.6mm fixed	4.44 ~ 102.2mm (Optical 23x)	4.44~102.2mm(23x) optical zoom	1.08mm fixed	1.14mm fixed
Angular Field of View	H : 94.8°, V : 49.3°, D : 114.3°	H : 94.8°, V : 49.3°, D : 114.3°	H : 61.8° (Wide) ~ 3.08° (Tele) / V : 36.2° (Wide) ~ 1.73° (Tele)	H : 61.8°(Wide)~3.08°(Tele) / V : 36.2°(Wide)~1.73°(Tele)	H : 187° / V : 187° / D : 187°	H: 187° / V: 187° / D: 187°
Pan / Tilt / Rotate	±5°/0-67°/±90°	±5°/0-67°/±90°	360° Endless / 210° (-15° ~ 195°)	-	-	-
IR Viewable Length	15m(49.21ft)	15m(49.21ft)	-	100m(328.08ft)	-	-
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto(ICR)	Auto (Electrical)	Auto (Electrical)
Wide Dynamic Range	120dB	120dB	120dB	120dB	120dB	120dB
Digital Noise Reduction	SSNR	SSNR	SSNR V	SSNR V	SSNR V	SSNR V
Digital Image Stabilization	-	-	Support (Built-in Gyro sensor)	Support(built-in gyro sensor)	-	-
Analytics	Intelligent analytics	Intelligent analytics	Intelligent analytics	Intelligent analytics	Intelligent analytics	Intelligent analytics
Business Intelligence	-	-	-	-	People counting, Heatmap	People counting, Heatmap
Alarm I/O	-	-	4 / 2	4 / 2.	-	-
Audio I/O	Selectable (Built-in mic) / Line out	Line in / -	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 / 30fps	2MP / 30fps	2MP / 30fps	2MP / 30fps	9MP / 30fps	4MP / 30fps
WiseStream	WiseStream II	WiseStream II	WiseStream II	WiseStream II	WiseStream II	WiseStream II
Streaming	Up to 3 Profiles	Up to 3 Profiles	Up to 10 Profiles	Up to 10 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	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, SUNAPI	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	-30°C ~ +55°C (-22°F ~ +131°F)	-30°C ~ +55°C (-22°F ~ +131°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -20°C (-4°F)	24VAC : -50°C~+55°C (-58°F ~ +131°F) HPoE : -40°C~+55°C (-40°F ~ +131°F) * Start up above -35°C	-10°C ~ +40°C (+14°F ~ +104°F)	-10°C ~ +55°C (+14°F ~ +131°F)
Certification	IP66, IK10, NEMA4X	IP66, IK10, NEMA4X	IP66, IK10 (QNP-6320H) IK10 (With SHP-3701H) (QNP-6320)	IP66, IK10	-	-
Power Consumption	PoE : Max 6.7W, typical 5W	PoE : Max 6.7W, typical 5W	PoE+ : Max. 24.0W, 24VAC : Max. 65.0W (QNP-6230H) PoE+, 24VAC : Max. 20.0W (QNP-6230)	24VAC : Max. 83W, typical : 30W HPoE : Max. 51W, typical : 30W	PoE: Max 7.5W, typical 6.2W	PoE: Max 6.4 W, typical 4.6 W
Dimensions (WxHxD) / Weight	98.9 x 52.0 x 100.0mm (3.89" x 2.05" x 3.94") 295g(0.65 lb)	98.9 x 52.0 x 100.0mm (3.89" x 2.05" x 3.94") 295g (0.65 lb)	Ø223.4 x 293.6mm (Ø8.8" x 11.56") 1.7Kg (3.75 lb) (QNP-6230H) Ø152.0 x 218.0mm(Ø5.98" x 8.58") 1.7Kg (3.75 lb) (QNP-6230)	Ø236.9x407.7mm (9.33" x 16.05") 6.8Kg (14.99 lb)	Ø99 x 49 mm (Ø3.9" x 1.93") 370g (0.82lb)	Ø99 x 49 mm (Ø3.9" x 1.93") 320 g (0.705 lb)
Additional Features	M12 connector, Hallway View	Hallway View	Defog	Defog	Panorama view, Busieness Intelligence	Panorama view, Busieness Intelligence

Camera T series

	TNB-9000 8K AI Box Camera	**TNV-7010RC** 3MP Corner Mount Camera	**TNO-X6320E** 2MP Explosion-proof Camera	**TNU-X6320E** 2MP Explosion-proof PTZ Camera	**TNU-6321** 2MP 32x Positioning Camera	**TNU-4041T / 4051T** VGA Thermal Positioning Camera
Imaging Device	43.3mm Full-frame CMOS	1/2.8" 3.2MP CMOS	1/2.8" 2.4M CMOS	1/2.8" 2.4M CMOS	1/2.8" CMOS	Uncooled Micro bolometer
Min. Illumination	Color : 0.015Lux(F1.4) BW : 0.0015Lux(F1.4)	Color : 0.3Lux (F2.0) B/W : 0Lux (IR LED on)	Color : 0.05Lux B/W : 0.005Lux	Color : 0.05Lux B/W : 0.005Lux	Color : 005Lux (F1.6) B/W : 0.005Lux (F1.6)	-
Video Output	HDMI (1080p), Micro USB type B	CVBS 1.0 Vp-p	-	-	CVBS: 1.0Vp-p	CVBS : 1.0 Vp-p
Focal Length	-	2.8mm fixed	4.44 ~ 142.6mm (Optical 32x)	4.44 ~ 142.6mm (Optical 32x)	4.44 ~ 142.6mm (32x)	19mm / 35mm fixed
Angular Field of View	Canon 24mm, H: 8K 62.1° Canon 35mm, H: 8K 44.5° Canon 50mm, H: 8K 31.6° Canon 85mm, H: 8K 19.2° Canon 100mm, H: 8K 16.1° Canon 70-200mm, H: 8K 23.2° ~ 8.3°	H : 102° / V : 75° / D : 129°	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)	H : 62.8° (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°
Pan / Tilt / Rotate	-	0° / ±15° / 0°	-	360° Endless / 180°	360° Endless (-90° ~ 40°) 0.036° ~ 120°/sec	360° Endless / -90° ~ 40°
IR Viewable Length	-	10m (32.8ft) with 940nm IR LED	-	-	-	-
Day & Night	Auto(ICR)	Auto (ICR)	Auto (ICR) / Color / B/W	Auto (ICR) / Color / B/W	Auto (ICR)	-
Wide Dynamic Range	DWDR	120dB	150dB	150dB	120dB	-
Digital Noise Reduction	SSNRV	SSNRV	SSNRV	SSNRV	SSNRV	-
Digital Image Stabilization		Support	On / Off (Built-in gyro sensor)	On / Off (Built-in gyro sensor)	Support	Support (Built-in Gyro sensor)
Analytics	Object detection (Person/Vehicle/Face/ License plate), Audio detection, Sound classification, Directional detection, Digital auto tracking, Enter/Exit, Loitering, Virtual line, Defocus detection, Motion detecion, Appear/Disappear, Tampering	Intelligent analytics, Audio detection, Sound classification, Shock detection	Intelligent analytics, Audio detection, Sound classification, Shock detection	Motion detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Face detection	Intelligent analytics	Intelligent analytics, Audio detection, Sound classification, Shock detection, Temperature change detection
Business Intelligence	-	-	-	-	-	-
Alarm I/O	1 / 1	1 / 1	1 / 2	-	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) / Line out
Video Compression	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	Support	H.264, H.265, MJPEG	H.265, H.264, MJPEG
Resolution / Max. Frame Rate	8K/15fps, 24MP/20fps, 15MP/30fps, 4K/60fps	3MP / 30fps	H.264 / H.265 : 60fps Motion JPEG : 30fps	2MP / 60fps	2MP / 60fps	640 x 480 / 30fps
WiseStream	WiseStream II	WiseStream II	WiseStream II	WiseStream II	WiseStream II	WiseStream II
Streaming	Up to 3 Profiles	Up to 10 Profiles	Up to 10 Profiles	Unicast / Multicast	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, NAS, Local PC	SD/SDHC/SDXC	Micro SD/SDHC/SDXC
Application Programming Interface	ONVIF profile S/G/T, SUNAPI	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, SUNAPI, Wisenet open platform	ONVIF profile S/G, SUNAPI, Wisenet open platform
Operating Temperature	0°C ~ +45°C (32°F ~ +122°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	T1: -40°C ~ +60°C (-40°F ~ +140°F); T2: -60°C ~ +60°C (-76°F ~ +140°F)	-40°C ~ +55°C (-40°F ~ +131°F)	-40°C ~ +60°C (-40°F ~ +140°F)
Certification	-	IP66, IP6K9K, IK10+	IP66/67, IP68	IP66/67	IP66, Safety(UL, KC-SDOC), EMC(FCC, CE, VCCI, RCM, KC)	IP66, NEMA 4X, IK10
Power Consumption	HPoE(IEEE802.3bt, Class5) : Max 30W, Typical 20W 12VDC : Max 26W, Typical 18W	PoE : Max 12W 12VDC : Max 11W	PoE: Max 12W	Up to 80W Maximum (depending on model)	24VAC : Max 100W - Heater On Typical 25W - Heater Off	24VAC : Max 84W - Heater On Max 62W - Heater Off
Dimensions (WxHxD) / Weight	120 x 118.1 x 179mm 2.1kg (4.55lb)	236 x 236 x 126.5mm (9.29" x 9.29" x 4.98") 2.2kg (4.85lb)	Up to 8.54Kg (18.9lb)	Up to 53Kg (117lb)	219.0 x 528.2 x 460.0mm (8.62" x 20.79" x 18.11") 14Kg (30.86 lb)	219 x 528 x 335mm (8.62" x 20.79" x 13.19") 11.7 kg (25.79lb)
Additional Features	8K, Canon EF mount, SFP slot, AI: BestShot and Object Attributes Extraction	Anti ligature design, Invisible IR LED, Hallway View	Intelligent video/audio analytics, motion detection, day & night (ICR), HLC, auto focus, auto iris, AGC, SSDR, SSNRIII, BLC, Gyro DIS, Defog	Intelligent video analytics, motion detection, day & night (ICR), HLC, auto focus, auto iris, AGC, SSDR, SSNRIII, BLC, Gyro DIS, Defog	Defog, microSD	Various color palettes

Camera T series

	TNO-4051T VGA Thermal Camera	TNO-4050T VGA Thermal Camera	TNO-4041T VGA Thermal Camera	TNO-4041TR VGA Radiometric Thermal Camera	TNO-4040T VGA Thermal Camera	TNO-4040TR VGA Radiometric Thermal Camera	TNO-4030T VGA Thermal Camera
Imaging Device	Uncooled Micro bolometer	Uncooled Micro bolometer	Uncooled Micro bolometer	Uncooled Micro bolometer	Uncooled Micro bolometer	Uncooled Micro bolometer	Uncooled Micro bolometer
Min. Illumination	-	-	-	-	-	-	-
Video Output	CVBS : 1.0 Vp-p	CVBS : 1.0 Vp-p, Micro USB Type B	CVBS : 1.0 Vp-p	CVBS : 1.0 Vp-p	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	35mm fixed	35mm fixed	19mm fixed	19mm fixed	19mm fixed	19mm fixed	13mm fixed
Angular Field of View	H : 17.2˚ / V : 13˚ / D : 22˚	H : 17.2˚ / V : 13˚ / D : 22˚	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°	H : 48.6° / V : 36.4° / D : 61.6°
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)	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 change detection	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	Intelligent analytics, Audio detection, Sound classification, Shock detection, Temperature detection
Business Intelligence	-	-	-	-	-	-	-
Alarm I/O	1 / 2	1 / 2	1 / 2	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	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	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	640 x 480 / 30fps	640 x 480 / 30fps	640 x 480 / 30fps
WiseStream	WiseStream II	WiseStream II	WiseStream II	WiseStream II	WiseStream II	WiseStream II	WiseStream II
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	Up to 10 Profiles
Edge Storage	SD/SDHC/SDXC	SD/SDHC/SDXC	SD/SDHC/SDXC	Micro SD/SDHC/SDXC	SD/SDHC/SDXC	Micro SD/SDHC/SDXC	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, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G, 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)	-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	IP66, NEMA 4X	IP66, NEMA 4X, IK10	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	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") 2,501g (5.51 lb)	Ø147.51 x 401.8mm (Ø5.81" x 15.82") 3,175g (7.0 lb)	Ø101.97 x 309mm (Ø4.01" x 12.17") 2,501g (5.51 lb)	Ø101.97 x 309mm (Ø4.01" x 12.17") 2,452g (5.41lb)	Ø147.51 x 401.8mm (Ø5.81" x 15.82") 3,175g (7.0 lb)	Φ101.97 x 401.8mm (Φ4.01" x 15.82") 3,124g (6.89lb)	Ø147.51 x 401.8mm (Ø5.81" x 15.82") 3,173g (7.0 lb)
Additional Features	Various color palettes, PT type	Various color palettes	Various color palettes, PT type	Various color palettes Spot temperature reading, PT type	Various color palettes	Various color palettes Spot temperature reading	Various color palettes

Camera T series

	TNO-4030TR VGA Radiometric Thermal Camera	**TNO-3010T/3020T/3030T** QVGA Thermal Bullet Camera	**TNM-3620TDY** Temperature Detection Thermal Camera	**TNV-8010C** 5MP Corner Mount Camera	**TNO-6010M** 2MP Front-Facing Mobile Camera	**TNB-6030** Public View Monitoring Camera
Imaging Device	Uncooled Micro bolometer	Uncooled Micro bolometer	Uncooled Micro bolometer	1/2.8" CMOS	1/2.8" 2MP CMOS	1/2.8" 2 MP CMOS
Min. Illumination	-	-	-	Color : 0.1Lux (F2.3) B/W : 0.02Lux (F2.3)	Color : 0.04Lux (F2.0) B/W : 0.004Lux (F2.0)	Color : 0.06 Lux (1/30sec, F2.5)
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	Micro HDMI (Max. 1920 x 1080 60fps)
Focal Length	13mm fixed	2.7mm fixed (TNO-3010T) 4.7mm fixed (TNO-3020T) 13.7mm fixed (TNO-3030T)	4.7mm fixed (Thermal) 4mm fixed (Visible)	2.3mm fixed	2.8mm fixed	13mm fixed
Angular Field of View	H : 48.6° / V : 36.4° / D : 61.6°	H : 92.0° / V : 65.5° / D : 125.7° (TNO-3010T) H : 50.0° / V : 36.4° / D : 65.3° (TNO-3020T) H : 16.0° / V : 12.0° / D : 20.0° (TNO-3030T)	H : 50.0° / V : 36.4° / D : 65.3° (Thermal) H : 87.6° / V : 46.4° / D : 104.5° (Visible)	H : 131° / V: 93.4° / D: 174°	H : 113.7° / V: 61.5° / D: 134.5°	4.5mm
Pan / Tilt / Rotate	-	-	-	Tilt Range: -7 ~ +7°	360° / 1st tilt adjustment 0° to 120°, 2nd tilt adjustment -30° to 90° / ±90°	-
IR Viewable Length	-	-	-	-	-	-
Day & Night	-	-	Auto (ICR) (Visible)	Auto (ICR)	Auto (ICR) / Color / B/W / External / Schedule	Auto (Electrical) / Color / B/W
Wide Dynamic Range	-	-	extreme WDR (Visible), 150dB	120dB	150dB	150dB
Digital Noise Reduction	-	-	SSNRV (Visible)	SSNR	SSNR V (2D + 3D noise filter) (Off / On)	SSNRV (2D+3D noise lter) (O / On)
Digital Image Stabilization	Support (Built-in Gyro sensor)	Support (Built-in Gyro sensor)	Support (Built-in Gyro sensor)	Support	Off / On	Off / On
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, Temperature detection	Defocus detection, Directional detection, Motion detection, Enter/Exit, Tampering, Virtual line, Audio detection	Tampering, Loitering, Directional detection, Defocus detection, Fog detection, Enter/Exit, (Dis)Appear, Face detection, Motion detection, Digital auto tracking	Tampering, Loitering, Directional detection, Defocus detection, Fog detection, Enter/Exit, (Dis)Appear, Face detection, Motion detection, Digital auto tracking
Business Intelligence	-	-	-	-	-	-
Alarm I/O	1 / 2	1 / 2	1 / 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	Slectable (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	640 x 480 / 30fps	320 x 240 / 30fps	320 x 240 / 30fps	30fps	30fps	30fps
WiseStream	WiseStream II	WiseStream II	WiseStream II	WiseStream II	WiseStream II	WiseStream II
Streaming	Up to 10 Profiles	Up to 10 Profiles	Up to 6 Profiles	Up to 3 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	SD/SDHC/SDXC	Micro SD/SDHC/SDXC/NAS
Application Programming Interface	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform	ONVIF profile S/T, SUNAPI	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)	+10°C ~ +35°C (+50°F ~ +95°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-30°C ~ +55°C (-22°F ~ +131°F)	+14°F ~ +122°F (-10°C ~ +50°C)
Certification	IP66, NEMA 4X, IK10	IP66, NEMA 4X, IK10	-	IP66, IP6K9K, IK10	IP66, NEMA 4X, IK10	-
Power Consumption	PoE : Max 10W 12VDC : Max 9W 24VAC : Max 10.5W	PoE : Max 8.7W 12VDC : Max 7.8W 24VAC : Max 9.2W	PoE+: Max. 17.0W 12VDC: Max. 14.5W	PoE: Max 6.49W Typical: 4.6W	PoE: Max 8W Typical: 4.3W	PoE : Max 7W 12VDC : Max 6W
Dimensions (WxHxD) / Weight	Φ101.97 x 401.8mm (Φ4.01" x 15.82") 3,124g (6.89lb)	Φ147.51 x 375.3mm (Φ5.81" x 14.78") 2,512g (5.538lb)	Φ135 x 75 x 180mm (Φ5.31" x 2.95" x 7.09") 1/4 - 20 UNC top & bottom	143 x 122 x 73.7mm (5.6" x 4.8" x 2.9") 815g (1.79lb)	Ø62 x 372mm (2.44Øx14.65") w/o hood, Adjustable length +0-63mm 1170g (2.58lb)	Main unit : 9.45" x 1.81" x 0.98" (240 x 46 x 25mm) Lens: 1.18" x 1.77" x 0.8" (30 x 45 x 20.4mm) 245g (0.64 lb)
Additional Features	Various color palettes Spot temperature reading	-	AI face and body temperature detection	Optional magnetic brushed steel cover	-	Face detection overlay, text overlay, blinking "Recording in progress"

Camera T series

	TNP-X6322EPT3-Z Explosion Proof PTZ Dome Camera	**TNP-Q6232EPT3-Z** Explosion Proof PTZ Dome Camera	**TNO-P9072EPT1-Z** 4K AI Explosion Proof Fixed Camera	**TNO-X8072EPT1-Z** Explosion Proof Fixed Camera	**TNO-X6322EPT1-Z** Explosion Proof Zoom Camera	**TNO-X6072EPT1-Z** Explosion Proof Fixed Camera
Imaging Device	1/2.8" 2.4MP CMOS	1/2.8" 2.4MP CMOS	1/1.8" 8MP CMOS	1/1.8" 5MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS
Min. Illumination	Color : 0.05Lux (F1.6), B/W : 0.005Lux (F1.6)	Color : 0.2Lux (F1.6), B/W : 0.01Lux (F1.6)	Color : 0.03Lux (F1.2), B/W : 0.003Lux (F1.2)	Color : 0.07Lux (F1.2), B/W : 0.007Lux (F1.2)	Color : 0.05Lux (F1.6), B/W : 0.005Lux (F1.6)	Color : 0.01Lux (F1.2), B/W : 0.001Lux (F1.2)
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	CVBS : 1.0 Vp-p, Micro USB Type B
Focal Length	4.44 ~ 142.6mm (Optical 32x)	4.44 ~ 102.2mm (Optical 23x)	3.9 ~ 10mm	4.1 ~ 9mm	4.44 ~ 142.6mm (Optical 32x)	2.8 ~ 9mm
Angular Field of View	H : 61.8° (Wide) ~ 2.19° (Tele) / V : 36.2° (Wide) ~ 1.24° (Tele)	H : 61.8° (Wide) ~ 3.08° (Tele) / V : 36.2° (Wide) ~ 1.73° (Tele)	-	82° (Wide) ~ 43° (Tele)	H : 61.8° (Wide) ~ 2.19° (Tele) / V: 36.2° (Wide) ~ 1.24° (Tele)	98° (Wide) ~ 39° (Tele)
Pan / Tilt / Rotate	360°	360°	-	-	-	-
IR Viewable Length	-	-	-	-	-	-
Day & Night	Auto (ICR) / Color / B/W / External / Schedule	Auto (ICR) / Color / B/W / External / Schedule	Auto (ICR) / Color / B/W / External / Schedule	Auto (ICR) / Color / B/W / External / Schedule	Auto (ICR) / Color / B/W / External / Schedule	Auto (ICR) / Color / B/W / External / Schedule
Wide Dynamic Range	150dB	120dB	120dB	120dB	150dB	150dB
Digital Noise Reduction	SSNR V (2D + 3D noise filter) (Off / On)	SSNR V (2D + 3D noise filter) (Off / On)	SSNR V	SSNR V (2D + 3D noise filter) (Off / On)	SSNR V (2D + 3D noise filter) (Off / On)	SSNRV (2D+3D noise lter) (O / On)
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	Tampering, Loitering, Directional detection, Fog detection, Virtual line, Enter/Exit, (Dis) Appear, Face detection, Motion detection	Tampering detection, Motion 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	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	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	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
Business Intelligence	-	-	-	-	-	-
Alarm I/O	1 / 2	4 / 2	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	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	1920 x 1080, 1280 x 1024, 1280 x 960, 1280 x 720, 1024 x 768, 800 x 600, 800 x 448, 720 x 576, 720 x 480, 640 x 480, 640 x 360, 320 x 240 / 60fps	1920 x 1080, 1280 x 1024, 1280 x 960, 1280 x 720, 1024 x 768, 800 x 600, 800 x 448, 720 x 576, 720 x 480, 640 x 480, 640 x 360, 320 x 240 / 30fps	38240 x 2160, 3072 x 1728, 2592 x 1944, 2688 x 960, 2560 x 1440, 2048 x 1536, 1920 x 1080, 1600 x 1200, 1280 x 1024, 800 x 600, 720 x 576, 640 x 480 / 30fps	2560 x 1920, 2560 x 1440, 1920 x 1080, 1600 x 1200, 1280 x 1024, 1280 x 960, 1280 x 720, 1024 x 768, 800 x 600, 800 x 448, 720 x 576, 720 x 480, 640 x 480, 640 x 360, 320 x 240 / 30fps	1920 x 1080, 1280 x 1024, 1280 x 960, 1280 x 720, 1024 x 768, 800 x 600, 800 x 448, 720 x 576, 720 x 480, 640 x 480, 640 x 360, 320 x 240 / 30fps	1920 x 1080, 1280 x 1024, 1280 x 960, 1280 x 720, 1024 x 768, 800 x 600, 800 x 448, 720 x 576, 720 x 480, 640 x 480, 640 x 360, 320 x 240 / 30fps
WiseStream	WiseStream II	WiseStream II	WiseStream II	WiseStream II	WiseStream II	WiseStream II
Streaming	Up to 10 Profiles	Up to 10 Profiles	Up to 3 Profiles	Up to 10 Profiles	Up to 10 Profiles	Up to 10 Profiles
Edge Storage	SD/SDHC/SDXC	SD/SDHC/SDXC	SD/SDHC/SDXC	SD/SDHC/SDXC/NAS	SD/SDHC/SDXC/NAS	SD/SDHC/SDXC/NAS
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, Wisenet open platform	ONVIF profile S/G, SUNAPI, Wisenet open platform	ONVIF profile S/G/T, SUNAPI, Wisenet open platform
Operating Temperature	-20°C ~ +55°C (-4°F ~ +131°F)	-20°C ~ +55°C (-4°F ~ +131°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)	-40°C ~ +60°C (-40°F ~ +140°F)
Certification	NEMA 4X, IP66	NEMA 4X, IP66	NEMA 4X, IP66	NEMA 4X, IP66	NEMA 4X, IP66	NEMA 4X, IP66
Power Consumption	PoE+: Max 30W, Max 24W (Heater off) Max 65W (Heater on)	PoE+: Max 30W, Max 24W (Heater off) Max 65W (Heater on)	PoE+ : Max 16.50W, Typical 12.50W 12VDC: Max 13.50W, Typical 10.80W	PoE : Max 7.5W Heater: 25W	PoE : Max 7.5W Heater: 25W	PoE : Max 7.5W Heater: 25W
Dimensions (WxHxD) / Weight	Ø8.6" x 15.82") 12.7kg (28 lb)	Ø8.6" x 15.82") 12.7kg (28 lb)	7.2" x 5.97" x 13.85" 6.35kg (14lb)	7.2" x 5.97" x 13.85" 6.35kg (14lb)	7.2" x 5.97" x 13.85" 6.35kg (14lb)	7.2" x 5.97" x 13.85" 6.35kg (14lb)
Additional Features	RAL2000-Yellow Orange / Anodized Aluminum	RAL2000-Yellow Orange / Anodized Aluminum	RAL2000-Yellow Orange / Powder-coated Aluminum	RAL2000-Yellow Orange / Powder-coated Aluminum	RAL2000-Yellow Orange / Powder-coated Aluminum	RAL2000-Yellow Orange / Powder-coated Aluminum

Camera L series

	LNO-6072R 2MP IR Bullet Camera	**LNO-6012R/6022R/6032R** 2MP IR Bullet Camera	**LND-6072R** 2MP IR Dome Camera	**LND-6012R/6022R/6032R** 2MP IR Dome Camera	**LNV-6072R** 2MP IR Vandal Dome Camera	**LNV-6012R/6022R/6032R** 2MP IR Vandal Dome Camera
Imaging Device	1/2.9" 2.19MP CMOS	1/2.9" 2.19MP CMOS	1/2.9" 2.19MP CMOS	1/2.9" 2.19MP CMOS	1/2.9" 2.19MP CMOS	1/2.9" 2.19MP CMOS
Min. Illumination	Color : 0.095Lux (F1.6) B/W : 0Lux (IR LED on)	Color : 0.18Lux (F2.0) B/W : 0Lux (IR LED on)	Color : 0.095Lux (F1.6) B/W : 0Lux (IR LED on)	Color : 0.18Lux (F2.0) B/W : 0Lux (IR LED on)	Color : 0.095Lux (F1.6) B/W : 0Lux (IR LED on)	Color : 0.18Lux (F2.0) B/W : 0Lux (IR LED on)
Video Output	-	-	-	-	-	-
Focal Length	3.2 ~10mm (3.1x) manual varifocal	3mm / 4mm / 6mm fixed	3.2 ~10mm (3.1x) manual varifocal	3mm / 4mm / 6mm fixed	3.2 ~10mm (3.1x) manual varifocal	3mm / 4mm / 6mm fixed
Angular Field of View	H : 101.6° (Wide) ~ 31.3° (Tele) / V : 54.1° (Wide) ~ 17.8° (Tele) / D : 120.6° (Wide) ~ 36.0° (Tele) /	H : 102.0° / V : 54.0° / D : 120.0° (LNO-6012R) H : 80.0° / V : 43.0° / D : 94.0° (LNO-6022R) H : 51.0° / V : 29.0° / D : 58.0° (LNO-6032R)	H : 101.6° (Wide) ~ 31.3° (Tele) / V : 54.1° (Wide) ~ 17.8° (Tele) / D : 120.6° (Wide) ~ 36.0° (Tele) /	H : 102.0° / V : 54.0° / D : 120.0° (LND-6012R) H : 80.0° / V : 43.0° / D : 94.0° (LND-6022R) H : 51.0° / V : 29.0° / D : 58.0° (LND-6032R)	H : 101.6° (Wide) ~ 31.3° (Tele) / V : 54.1° (Wide) ~ 17.8° (Tele) / D : 120.6° (Wide) ~ 36.0° (Tele) /	H : 102.0° / V : 54.0° / D : 120.0° (LNV-6012R) H : 80.0° / V : 43.0° / D : 94.0° (LNV-6022R) H : 51.0° / V : 29.0° / D : 58.0° (LNV-6032R)
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	30m (98.43ft)	30m (98.43ft)	20m (65.62ft)	20m (65.62ft)	30m (98.43ft)	30m (98.43ft)
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	Tampering, Motion detection	Tampering, Motion detection	Tampering, Motion detection	Tampering, Motion detection	Tampering, Motion detection	Tampering, Motion detection
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	H.264, MJPEG
Resolution / Max. Frame Rate	2MP / 30fps	2MP / 30fps	2MP / 30fps	2MP / 30fps	2MP / 30fps	2MP / 30fps
WiseStream	WiseStream II	WiseStream II	WiseStream II	WiseStream II	WiseStream II	WiseStream II
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	Micro SD/SDHC	Micro SD/SDHC	Micro SD/SDHC	Micro SD/SDHC	Micro SD/SDHC
Application Programming Interface	ONVIF profile S/G, SUNAPI	ONVIF profile S/G, SUNAPI	ONVIF profile S/G, SUNAPI	ONVIF profile S/G, SUNAPI	ONVIF profile S/G, SUNAPI	ONVIF profile S/G, SUNAPI
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)	-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 -20°C (-4°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -20°C (-4°F)
Certification	IP66	IP66	-	-	IP66, IK10	IP66, IK10
Power Consumption	PoE : Max 6.5W	PoE : Max 6.5W	PoE : Max 6.5W	PoE : Max 6.5W	PoE : Max 6.5W	PoE : Max 6.5W
Dimensions (WxHxD) / Weight	Ø78.0 x 262.0mm (Ø3.07" x 10.32") 380g (0.84 lb)	Ø58.6 x 182.0mm (Ø2.31" x 7.17") 240g (0.53 lb)	Ø119.8 x 98.8mm (Ø4.72" x 3.89") 274g (0.60 lb)	Ø110.0 x 86.0mm (Ø4.33" x 3.39") 230g (0.51 lb)	Ø137.8 x 106.1mm (Ø5.43" x 4.18") 515g (1.16 lb)	Ø120.3 x 91.7mm (Ø4.74" x 3.61") 395g (0.87 lb)
Additional Features	Hallway View	Hallway View	Hallway View	Hallway View	Hallway View	Hallway View

	XRN-6410DB4 64CH 32MP NVR	**XRN-3210B4** 32CH 32MP NVR
OS	Linux	Linux
Supported Compression	H.265, H.264, MJPEG, WiseStream	H.265, H.264, MJPEG, WiseStream
Max. Recording Bit Rate	400Mbps	400Mbps
Max # of Cameras	64	32
Internal Storage	Up to 16 SATA (Max. 10TB per disk)	Up to 16 SATA (Max. 10TB per disk)
External Storage	iSCSI	iSCSI
RAID	RAID 5/6	RAID 5/6
Hot Swap	Yes	Yes
Network Viewer Software	Wisenet WAVE, WebViewer, SmartViewer, Wisenet Mobile	Wisenet WAVE, WebViewer, SmartViewer, Wisenet Mobile
Local Monitor	HDMI (4K) & HDMI (1080P) Dual / Clone	HDMI (4K) & HDMI (1080P) Dual / Clone
Camera Support	SUNAPI, ONVIF	SUNAPI, ONVIF
Additional Features	• Up to 32MP recording resolution • AI search (Wisenet AI cameras) • Dual track recording • N+1 failover • ARB redundancy supported • Dual SMPS	• Up to 32MP recording resolution • AI search (Wisenet AI cameras) • Dual track recording • N+1 failover • ARB redundancy supported

Wisenet WAVE

WRR P / Q series

WRR-P-E200L1/E200W1/E200S1
WAVE Recording Server

WRR-P-S202L1/S202W1/S202S1
WAVE Recording Server

WRR-Q-A200W
WAVE Recording Server

WRR-Q-A201W
WAVE Recording Server

Operating System	Windows 10 / Ubuntu 18.04 LTS / Server 2019	Windows 10 / Ubuntu 18.04 LTS / Server 2019	Windows 10	Windows 10
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	470Mbps	470Mbps	470Mbps	470Mbps
Max # of Camera Channels	128	128	128	128
Internal Storage	Up to 3 SATA (Max. 48TB)	Up to 14 SATA (Max. 144TB)	Up to 7 SATA (Max. 84TB)	Up to 10 SATA (Max. 96TB)
RAID	RAID 6 Pre-configured	RAID 6 Pre-configured	RAID 5 Pre-configured	RAID 5 Pre-configured
Hot Swap	Yes	Yes	Yes	Yes
VMS	Wisenet WAVE	Wisenet WAVE	Wisenet WAVE	Wisenet WAVE
Local Monitor	mDP / VGA	mDP / VGA	mDP / VGA	mDP / VGA
Camera Support	SUNAPI, ONVIF	SUNAPI, ONVIF	SUNAPI, ONVIF	SUNAPI, ONVIF
Additional Features	4 WAVE Professional Licenses Included, 1U Rack Mount Chassis (shallow depth), 5 Year Next Business Day On-site Warranty, Keep your Hard Drive RMA Policy (Storage Disks)	4 WAVE Professional Licenses Included, 2U Rack Mount Chassis, 5 Year Next Business Day On-site Warranty, Keep your Hard Drive RMA Policy (Storage Disks)	4 WAVE Professional Licenses Included, 2U Rack Mount Chassis, 3 Year Next Business Day On-site Warranty, Keep your Hard Drive RMA Policy (Storage Disks)	4 WAVE Professional Licenses Included, 2U Rack Mount Chassis, 3 Year Next Business Day On-site Warranty, Keep your Hard Drive RMA Policy (Storage Disks)

WRN series

WRN-810S
WAVE PoE+ Recording Server

WRN-1610S
WAVE PoE+ Recording Server

Operating System	Ubuntu 18.04 LTS	Ubuntu 18.04 LTS
Supported Compression	H.265, H.264, MJPEG, WiseStream	H.265, H.264, MJPEG, WiseStream
Max Recording Bit Rate	80Mbps	150Mbps
Max # of Camera Channels	8	16
Internal Storage	Up to 2 SATA (Max. 12TB)	Up to 4 SATA (Max. 24TB)
RAID	No	No
Hot Swap	No	No
VMS	Wisenet WAVE 4.1.0.31400 or greater	Wisenet WAVE 4.1.0.31400 or greater
Local Monitor	HDMI / VGA	HDMI / VGA
Camera Support	SUNAPI, ONVIF	SUNAPI, ONVIF
Additional Features	4 WAVE Professional Licenses Included, 8 PoE / PoE+ Ports (100W power budget), PoE Port Mgmt page for device info + power toggle, Control over internal I/O block & event rule integration	4 WAVE Professional Licenses Included, 16 PoE / PoE+ Ports (200W power budget), PoE Port Mgmt page for device info + power toggle, Control over internal I/O block & event rule integration

WRT P series

WRT-P-3100W / 3100L
WAVE Recording Server

WRT-P-5200W / 5200L
WAVE Recording Server

Operating System	Windows 10 / Ubuntu 18.04 LTS	Windows 10 / Ubuntu 18.04 LTS
Supported Compression	H.265, H.264, MJPEG, WiseStream	H.265, H.264, MJPEG, WiseStream
Max Recording Bit Rate	170Mbps	470Mbps
Max # of Camera Channels	32 (Suggested Max)	64 (Suggested Max)
Internal Storage	Up to 3 SATA (Max. 16TB)	Up to 3 SATA (Max. 36TB)
RAID	No	No
Hot Swap	No	No
VMS	Wisenet WAVE	Wisenet WAVE
Local Monitor	Display Port (DP to HDMI adapter included)	Display Port (DP to HDMI adapter included)
Camera Support	SUNAPI, ONVIF	SUNAPI, ONVIF
Additional Features	4 WAVE Professional Licenses Included, Dual Purpose Mini Tower Recorder / Client, 5 Year Next Business Day On-site Warranty, Keep your Hard Drive RMA Policy (Storage Disks)	4 WAVE Professional Licenses Included, Dual Purpose Mini Tower Recorder / Client, 5 Year Next Business Day On-site Warranty, Keep your Hard Drive RMA Policy (Storage Disks)

WWT P series

WWT-P-3200W / 3200L
WAVE Viewing Workstation

WWT-P-7400W / 7400L
WAVE Viewing Workstation

Operating System	Windows 10 / Ubuntu 18.04 LTS	Windows 10 / Ubuntu 18.04 LTS
Supported Compression	H.265, H.264, MJPEG, WiseStream	H.265, H.264, MJPEG, WiseStream
Appliance Type	Viewing Workstation	Viewing Workstation
# of Displays	Optimized for 2 monitors	Optimized for 4 monitors
VMS	Wisenet WAVE	Wisenet WAVE
Local Monitor	mDP, HDMI, DP	mDP, HDMI, DP
Camera Support	SUNAPI, ONVIF	SUNAPI, ONVIF
Additional Features	Dedicated GPU, 2 mDP to HDMI Adapters Included, 5 Year Next Business Day On-site Warranty, Keep your Hard Drive RMA Policy (Storage Disks)	Dedicated GPU, 4 mDP to HDMI Adapters Included, 5 Year Next Business Day On-site Warranty, Keep your Hard Drive RMA Policy (Storage Disks)

Camera HD+ series

	HCB-7000A QHD Box Camera	HCO-7070RA QHD IR Bullet Camera	HCO-7010RA/20RA/30RA QHD IR Bullet Camera	HCF-8010V 5MP Analog HD Fisheye Camera	HCD-7070RA QHD IR Dome Camera
Imaging Device	1/3" 4MP CMOS	1/3" 4MP CMOS	1/3" 4MP CMOS	1/2.9" CMOS	1/3" 4MP CMOS
Resolution	2560 x 1440	2560 x 1440	2560 x 1440	5MP (2560 x 1944)	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-7010RA) 0.27Lux (F2.0) (HCO-7020RA/7030RA) B/W : 0Lux (IR LED on)	Color : 0.95Lux (F2.1) B/W : 0.005Lux (F2.1)	Color : 0.16Lux (F1.6) B/W : 0Lux (IR LED on)
Focal Length	-	3.2 ~ 10mm (3.1x) varifocal	2.8mm fixed (HCO-7010RA) 4.0mm fixed (HCO-7020RA) 6.0mm fixed (HCO-7030RA)	0.98mm	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 : 180°, V : 180°	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-7010RA) 25m (82.02ft) (HCO-7020RA) 30m (98.43ft) (HCO-7030RA)	-	20m (65.62ft)
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Backlight Compensation	BLC/HLC/DWDR	BLC/HLC/DWDR	BLC/HLC/DWDR	3DNR, 2DNR	BLC/HLC/DWDR
Digital Noise Reduction	2D DNR	2D DNR	2D DNR	-	2D DNR
Motion detection	Support	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), TCP (TVI Coax Protocol)	AHD : ACP (AHD Coax Protocol), CVBS : Pelco-C (Coaxitron)
Operating Temperature	-10°C ~ +55°C (+14°F ~ +131°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -10°C (+14°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -10°C (+14°F)	-30°C ~ +55°C (-22°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)
Certification	-	IP66, IK10	IP66, IK10	IP66, IK10	-
Power Consumption	12VDC & 24VAC : Max 3.6W	12VDC & 24VAC : Max 5.8W	12VDC : Max 5.0W	12VDC : Max 5.0W	12VDC & 24VAC : Max 5.8W
Dimensions (WxHxD) / Weight	68.4 × 59.6 × 92.7mm (2.69" × 2.35" × 3.65") 186g (0.41 lb)	Ø78.0 x 259.8mm (Ø3.07" x 10.23") (Without sunshield) 914g (2.02 lb)	Ø70.0 x 246.0 mm (Ø2.76" x 9.69") (Without sunshield) 670g (1.48 lb)	Ø120.0 x 63.4 mm (Ø4.72" x 2.50")	Ø119.8 x 98.5mm (Ø4.72" x 3.88") 320g (0.71 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)	Coaxial communication (HD / SD mode)	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

HCB-6000
1080p HD Box Camera

Imaging Device	1/3" 4MP CMOS	1/3" 4MP CMOS	1/3" 4MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS
Resolution	2560 x 1440	2560 x 1440	2560 x 1440	1920 x 1080	1920 x 1080
Min. Illumination	Color : 0.26Lux (F1.8) (HCD-7010RA) 0.27Lux (F2.0) (HCD-7020RA/7030RA) B/W : 0Lux (IR LED on)	Color : 0.16Lux (F1.6) B/W : 0Lux (IR LED on)	Color : 0.26Lux (F1.8) (HCV-7010RA) 0.27Lux (F2.0) (HCV-7020RA/7030RA) B/W : 0Lux (IR LED on)	Color : 0.09Lux (F1.2) B/W : 0.009Lux (F1.2)	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-7010RA) 4.0mm fixed (HCV-7020RA) 6.0mm fixed (HCV-7030RA)	-	-
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 : 49.01° / 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-7010RA) H : 78.22° / V : 41.21° / D : 87.91° (HCV-7020RA) H : 49.01° / V : 27.61° / D : 55.6° (HCV-7030RA)	-	-
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-7010RA) 25m (82.02ft) (HCV-7020RA) 30m (98.43ft) (HCV-7030RA)	-	-
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Backlight Compensation	BLC/HLC/DWDR	BLC/HLC/DWDR	BLC/HLC/DWDR	WDR (120dB)	WDR (120dB)
Digital Noise Reduction	2D DNR	2D DNR	2D DNR	SSNRIV	SSNRIV
Motion detection	Support	Support	Support	Support	Support
Privacy Masking	2 Zones	2 Zones	2 Zones	4 Zones	8 Zones
Alarm I/O	-	MD Output 1	-	0 / 1, External D/N 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), RS-485 : Samsung T/E, 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), RS-485 : Samsung T, Pelco D/P, Panasonic, Bosch , Honeywell, Vicon, GE, AD
Operating Temperature	-10°C ~ +55°C (+14°F ~ +131°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -10°C (+14°F)	-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)
Certification	-	IP66, IK10	IP66, IK10	-	-
Power Consumption	12VDC : Max 5.0W	12VDC & 24VAC : Max 5.8W	12VDC : Max 5.0W	12VDC & 24VAC : Max 6W	12VDC & 24VAC : Max 3.5W
Dimensions (WxHxD) / Weight	Ø110.1 × 86.1mm (Ø4.33" × 3.39") 240g (0.53 lb)	Ø137 × 106.1mm (Ø5.39" × 4.18") 715g (1.58 lb)	Ø120.3 x 91.7mm (Ø4.74" x 3.61") 510g (1.12 lb)	73.1× 67.2 × 123.9mm (2.88" × 2.65" × 4.88") 287g (0.63 lb)	68.4 × 59.6 × 92.7mm (2.69" × 2.35" × 3.65") 186g (0.41 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 transmisstion up to 500m (5C2V Coaxial Cable)	Video transmisstion up to 500m (5C2V Coaxial Cable)

Camera HD+ series

	HCZ-6321 2MP 32x AHD Zoom Camera	**HCO-6080R** 1080p HD IR Bullet Camera	**HCO-6070R** 1080p HD IR Bullet Camera	**HCO-6020R** 1080p HD IR Bullet Camera	**HCD-6080R/6070R** 1080p HD IR Dome Camera
Imaging Device	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2 .8" 2MP CMOS	1/2 .8" 2MP CMOS
Resolution	1080p	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
Min. Illumination	Color : 0.2Lux (F1.6) B/W : 0.01Lux (F1.6)	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)	Color : 0.11Lux (F1.6) B/W : 0Lux (IR LED on)
Focal Length	4.44 ~ 142.6mm (Optical 32x)	3.2 ~ 10mm (3.1x) motorized varifocal	3.2 ~ 10mm (3.1x) varifocal	4mm fixed (F1.6)	3.2 ~ 10mm (3.1x) motorized varifocal (HCD-6080R) varifocal (HCD-6070R)
Angular Field of View	H : 62.8° (Wide) ~ 2.23° (Tele) / V : 36.80° (Wide) ~ 1.26° (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)	H : 87.6° / V : 46.4° / D : 104.5°	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°
IR Viewable Length	-	30m (98.43ft)	30m (98.43ft)	30m (98.43ft)	20m (65.62ft)
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Backlight Compensation	BLC, HLC, WDR, SSDR	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)
Digital Noise Reduction	SSNRIII	SSNRIV	SSNRIV	SSNRIV	SSNRIV
Motion detection	Support	Support	Support	Support	Support
Privacy Masking	12 Zones	8 Zones	8 Zones	8 Zones	8 Zones
Alarm I/O	-	MD Output 1	MD Output 1	-	MD Output 1
Protocol	AHD : ACP (AHD Coax Protocol), RS-485 : Samsung-T/E, Pelco-D/P, Panasonic, Bosch, Honeywell, Vicon, 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)	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)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -10°C (+14°F)	-30°C ~ +55°C (-22°F ~ +131°F) *Start up above -10°C (+14°F)	-30°C ~ +55°C (-22°F ~ +131°F) *Start up above -10°C (+14°F)	-10°C ~ +55°C (+14°F ~ +131°F)
Certification	-	IP66, IK10	IP66, IK10	IP66	-
Power Consumption	12VDC : Max 6W	12VDC & 24VAC : Max 6.0W	12VDC & 24VAC : Max 6.0W	12VDC : Max 4.2W	12VDC & 24VAC : Max 6.0W (HCD-6080R) 12VDC & 24VAC : Max 4.2W (HCD-6070R)
Dimensions (WxHxD) / Weight	72.0 x 63.9 x 137.25mm (2.83" x 2.52" x 5.40") 451g (0.99 lb)	Ø78.0 x 259.8mm (Ø3.07" x 10.23") (Without sunshield) 948g (2.09 lb)	Ø78.0 x 259.8mm (Ø3.07" x 10.23") (Without sunshield) 914g (2.02 lb)	Ø58.6 x 165.2mm (Ø2.31" x 6.50") (Without sunshield) 285g (0.62 lb)	Ø119.8 x 98.5mm (Ø4.72" x 3.88") 330g (0.73lb) (HCD-6080R) 320g (0.71lb) (HCD-6070R)
Additional Features	Defog	Video transmisstion up to 500m (5C2V Coaxial Cable)	Video transmisstion up to 500m (5C2V Coaxial Cable)	Video transmisstion up to 500m (5C2V Coaxial Cable)	Video transmisstion up to 500m (5C2V Coaxial Cable)

	HCD-6020R 1080p HD IR Dome Camera	HCD-6010 1080p HD Dome Camera	HCV-6080R/6070R 1080p HD IR Vandal Dome Camera	HCP-6320HA/6320A 1080p HD 32x PTZ Camera	SCB-6003 1080p HD Box Camera
Imaging Device	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/3" 2MP CMOS
Resolution	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
Min. Illumination	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)	Color : 0.2Lux (F1.6) B/W : 0.01Lux (F1.6)	Color : 0.04Lux (F1.2) B/W : 0.004Lux (F1.2)
Focal Length	4mm fixed (F1.6)	2.8mm fixed (F2.0)	3.2 ~ 10mm (3.1x) motorized varifocal (HCV-6080R) varifocal (HCV-6070R)	4.44 ~ 142.6mm (Optical 32x)	-
Angular Field of View	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)	H : 62.8° (Wide) ~ 2.23° (Tele) / V : 36.8° (Wide) ~ 1.26° (Tele)	-
Pan / Tilt / Rotate	-	-	0° ~ 350° / 0° ~ 67° / 0° ~ 355°	360° Endless / 210° (-15° ~ 195°) / -	-
IR Viewable Length	20m (65.62ft)	-	30m (98.43ft)	-	-
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)
Backlight Compensation	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)	BLC / HLC / DWDR
Digital Noise Reduction	SSNRIV	SSNRIV	SSNRIV	SSNRIII	SSNRIV
Motion detection	Support	Support	Support	Support	Support
Privacy Masking	8 Zones	8 Zones	8 Zones	32 Zones	4 Zones
Alarm I/O	-	-	MD Output 1	4 / 2 (Relay)	0 / 1, External D/N 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), RS-485 : Samsung-T/E, Pelco-P/D, Sungjin, Panasonic, Honeywell, AD, Vicon, Bosch, GE	AHD : ACP (AHD Coax Protocol), CVBS : Pelco-C (Coaxitron), RS-485
Operating Temperature	-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)	-50°C ~ +55°C (-58°F ~ +131°F) (HCP-6320HA), -10°C ~ +55°C (+14°F ~ +131°F) (HCP-6320A)	-10°C ~ +55°C (+14°F ~ +131°F)
Certification	-	-	IP66, IK10	IP66, IK10 (HCP-6320HA), IK10 (With SHP-3701H) (HCP-6320A)	-
Power Consumption	12VDC : Max 4.2W	12VDC : Max 3.5W	12VDC & 24VAC : Max 4.2W	24VAC : Max 24.0W / 65.0W - Heater off / on (HCP-6320HA) 24VAC : Max 20.0W (HCP-6320A)	12VDC & 24VAC : Max 4.2W
Dimensions (WxHxD) / Weight	Ø110 x 86mm (Ø4.33" x 3.39") 320g (0.71 lb)	Ø110 x 86mm (Ø4.33" x 3.39") 225g (0.49 lb)	Ø137 x 106.1mm (Ø5.39" x 4.18") 725g (1.60lb) 715g (1.58lb)	Ø220.0 x 293.6mm (Ø8.66" x 11.56") 3.3Kg (7.28 lb) (HCP-6320HA), Ø152.0 x 218.0mm (Ø5.98" x 8.58") 2.2Kg (4.85 lb) (HCP-6320A)	68.4 x 59.6 x 92.7mm (2.69" x 2.35" x 3.65") 175.5g (0.39 lb)
Additional Features	Video transmisstion up to 500m (5C2V Coaxial Cable)	Video transmisstion up to 500m (5C2V Coaxial Cable)	Video transmisstion up to 500m (5C2V Coaxial Cable)	Defog	Defog

Camera HD+ series

	SCO-6085R 1080p HD IR Bullet Camera	**SCO-6023R** 1080p HD IR Bullet Camera	**SCD-6083R** 1080p HD IR Dome Camera	**SCV-6083R** 1080p HD IR Vandal Dome Camera
Imaging Device	1/2.8" 2MP CMOS	1/3" 2MP CMOS	1/3" 2MP CMOS	1/3" 2MP 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 : 0.25Lux (F2.1) B/W : 0Lux (IR LED on)	Color : 0.11Lux (F1.4) B/W : 0Lux (IR LED on)	Color : 0.11Lux (F1.4) B/W : 0Lux (IR LED on)
Focal Length	3.2 ~ 10mm (3.1x) manual varifocal"	4mm fixed	2.8 ~ 12mm (4.3x) varifocal	2.8 ~ 12mm (4.3x) varifocal
Angular Field of View	H : 110.2° (Wide) ~ 32.0° (Tele) / V : 55.4° (Wide) ~ 18.0° (Tele) / D : 128.4° (Wide) ~ 36.6° (Tele)	H : 80.7° / V : 43.5° / D : 95.8°	H : 102° (Wide) ~ 32.2° (Tele) / V : 54° (Wide) ~ 18.2° (Tele) / D : 121° (Wide) ~ 38 °(Tele)	H : 102° (Wide) ~ 32.2° (Tele) / V : 54° (Wide) ~ 18.2° (Tele) / D : 121° (Wide) ~ 38° (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)	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	SSNRIV	SSNRIV	SSNRIV	SSNRIV
Motion detection	Support	Support	Support	Support
Privacy Masking	8 Zones	4 Zones	4 Zones	4 Zones
Alarm I/O		-	0 / 1	0 / 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)
Operating Temperature	-30°C ~ +55°C (-22°F ~ +131°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -10°C (+14°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	IP66	-	IP66, IK10
Power Consumption	12VDC : Max 5.4W 24VAC : Max 5.4W	12VDC : Max 4.2W	12VDC & 24VAC : Max 4.2W	12VDC & 24VAC : Max 4.2W
Dimensions (WxHxD) / Weight	Ø78 x 259.8mm (3.07" x 10.23") 887g (1.95 lb)	Ø58.6 x 165.2mm (Ø2.31" x 6.50") (Without Sunshield) 208g (0.46 lb)	Ø119.8 x 98.8mm (Ø4.72" x 3.89") 304g (0.67 lb)	Ø137.0 x 106.1mm (Ø5.39" x 4.18") 716g (1.58 lb)
Additional Features	Defog	Defog	Defog	Defog

PERIPHERAL

Monitor

SMT-4343
43" 4K LED Monitor

SMT-2410
24" LED Monitor

SMT-3211PVM/
SMT-3211PVM-PIP
32" PVM

Screen Size	43"	24"	32"
Resolution (pixels HxV)	1,920 x 1,080	1,920 x 1,080	1,920 x 1,080
Video In/Out	1	1	2 / 2
VGA	1	1	1
DVI / HDMI	1 / 1	0 / 1	0 / 1
USB	-	-	-
Audio In (Stereo)	1	-	2
Contrast Ratio	5,000 : 1	1,000 : 1	1,200:1
Aspect Ratio	16 : 9	16 : 9	16 : 9
Response Time	9.5mm	5mm	8ms
Brightness	350cd/m^2	250cd/m^2	300cd/m^2
Tempered Glass Screen	-	-	Yes
Picture In Picture	-	-	-
Built-in Speakers	Yes	Yes	Yes
Stand	Optional	Standard	Standard
Power	100V ~ 240V AC	100V ~ 240V AC	100V ~ 240V AC
Additional Features	Remote Controller	Remote Controller	Public View Monitor, Picture in picture mode (SMT-3211PVM-PIP)

PVM Camera

TNB-6030
Public View Monitoring Camera

Features	• Max. 2Megapixel (1920 x 1080)resolution • HDMIOutput(1080p FullHD) • TrueWDR (150dB) • Face detection overlay / text overlay and blinking "Recording in progress" • Max. 60fps@allresolutions, 0.06 Lux@F2.5 (Color) • H.265,H.264, MJPEGcodec supported, Multiple streaming • SD/SDHC/SDXC memory slot(256GB) • Hallway view,WiseStreamII , LDC support • Bi-directional audio support,Alarm I/O(1ea) • PoE, 12VDC

Controller

SPC-2000
Network Controller

SPC-2010
PTZ / DVR System Controller

SPC-1010
PTZ Control Keyboard

Features	• Superior System Compatibility • 3D Joystick Control • Quick and Easy Installation • SSM Support	• Control up to 255 PTZ Cameras / DVRs • Built-in 3 Axis Twist Zoom Joystick • Built-in Jog Shuttle • 16 x 2 Character LCD Display • RS-485 and RS-422 Interface	• Control up to 255 PTZ Cameras • Multi Protocols Supports • OSD Menu, 3D Joystick Control • RS-485 and RS-422 Interface

PERIPHERAL

Lens

Lens Description	Model	Image	Focal Length / Aperature	Lens Construction	Field of View	Angle of View			Max. Diameter and Length	Weight	Lens Cap
						Diagonal	Vertical	Horizontal			
4K Varifocal Lens	**SLA-C-E24**		24mm f/1.4	10 groups, 13 elements	139mm x 208mm (5.5" x 8.2" (0.25m))	84°	53°	74°	83.5mm x 86.9mm (3.3" x 3.4")	650g / 22.9 oz	E-77U/E-77 II
	SLA-C-E50		50mm f/1.2	6 groups, 8 elements	164mm x 250mm (6.5" x 9.8" (0.45m))	46°	27°	40°	85.8mm x 65.5mm (3.4" x 2.6")	590g / 20.8 oz	E-72U/E-72 II
	SLA-C-E85		85mm f/1.2	7 groups, 8 elements	226mm x 339mm (8.9" x 13.3" (0.95m))	28° 30'	16°	24°	91.5mm x 84mm (3.6" x 3.3")	1025g / 36.2 oz	
	SLA-C-E2470		24 - 70mm f/2.8	13 groups, 18 elements	369mm x 554mm - 134mm x 202mm / (14.53" x 21.81" - 5.28" x 7.95" (0.38m/1.25ft))	84° - 34°	53° - 19° 30'	74° - 29°	88.5mm x 113.0mm (3.48" x 4.45")	~805g / 28.4 oz	E-82U/E-82 II
	SLA-C-E70200		70 - 200mm f/2.8	19 groups, 23 elements	308mm x 463mm - 115mm x 171mm / (12.13" x 18.23" - 4.53" x 6.73" (1.2m/3.94ft))	34° - 12°	19° 30' - 7°	29° - 10°	88.8mm x 199mm (3.50" x 7.83")	~1480g / 52.2 oz	E-77 II

Lens

Lens Description	Model	Image	Mount	Resolution	Focal Length	Lens Length	Lens Type	F. No	Field of View for sensor sizes							Operating Temperature
4K Varifocal Lens	SLA-T-M410DN		CS	True 4K Up to 12MP	4-10mm	<64mm TTL	DC Auto Iris	F/1.4 @ 4mm - F/2.4 @ 10mm	**Sensor size**	1/1.7"	1/1.8"	1/1.8" 4K	1/2"	1/2.3"	1/2.5"	-20°C ~ +60°C (-4°F ~ + 140°F)
									Horizontal	112° - 44°	110° - 43°	110° - 43°	93° - 37°	90° - 36°	83° - 33°	
									Vertical	81° - 33°	71° - 29°	52° - 21°	68° - 28°	67° - 27°	60° - 25°	
									Diagonal	149° - 55°	139° - 52°	126° - 48°	120° - 46°	117° - 45°	106° - 42°	
	SLA-T-M940DN				9-40mm	<50mm		9-40mm	**Sensor size**	1/3"		1/2.7"		1/2.5"		-20°C ~ +60°C (-4°F ~ + 140°F)
									Horizontal	30° - 7.1°		37° - 8.6°		36° - 8.5°		
									Vertical	22° - 5.3°		20° - 4.8°		27° - 6.3°		
									Diagonal	38° - 8.8°		42° - 9.9°		46° - 10.6°		
	SLA-T-M1250DN				12-50mm	<64mm TTL		F/1.8 @ 12mm - F/2.4 @ 50mm	**Sensor size**	1/1.7"	1/1.8"	1/1.8" 4K	1/2"	1/2.3"	1/2.5"	-20°C ~ +60°C (-4°F ~ + 140°F)
									Horizontal	36° - 8.6°	36° - 8.6°	35° - 8.5°	30° - 7.4°	30° - 7.2°	27° - 6.7°	
									Vertical	26° - 6.5°	23° - 5.8°	17° - 4.3°	23° - 5.6°	22° - 5.5°	20° - 5.0°	
									Diagonal	46° - 11°	44° - 10°	40° - 9.5°	39° - 9.2°	38° - 9°	34° - 8.3°	

Lens Description	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		
CS-mount Auto Iris Megapixel Lens	SLA-M2890DN		CS	1 / 2.8"	3Megapixel	2.8 ~ 9mm (0.11" ~ 0.35")	7.5 ~ 15.9mm (0.30" ~ 0.63")	3.2	1.2	134.2° ~ 42.7°	DC	manual	manual	45.0 x 51.5 x 54.3mm (1.77" x 2.03" x 2.14")	84.0g (0.19 lb)
	SLA-M2890PN										P-Iris				82.1g (0.18 lb)

PERIPHERAL

Lens

Lens Description	Model	Image	Mount	Resolution	Focal Length	IR Correction	Lens Type	F. No	Operating Temperature
4K Varifocal Lens	**SLA-C-I3910**		CS	Up to 4K / 8MP	3.9 - 10mm, 108.1° - 41.1° Angle of View, 1/1.8" format	True Day / Night	Stepping Motor Iris, iCS control with compatible camera	F/1.5	-20°C ~ +60°C (-4°F ~ + 140°F)
	SLA-C-I2885				2.8 - 8.5mm, 124.7° - 41.3° Angle of View, 1/2.7" format	True Day / Night	Stepping Motor Iris, iCS control with compatible camera	F/1.2	-20°C ~ +60°C (-4°F ~ + 140°F)

ACCESSORY

Flush mount

SHP-1680F/SHP-1680FW	SHP-3701H	SHD-3000F1/3000FW1	SHD-3000F2/3000FW2	SHD-3000F3/3000FW3	SHD-3000F4/3000FW4	SHD-3000F5	SHD-1198FW
Ivory / White		Ivory / White	Ivory / White	Ivory / White	Ivory / White		

Hanging mount

SHD-1408FW	SHD-315F	SHF-1500F	SBP-301HM3	SBP-301HM4	SBP-301HM5	SBP-300HM5	SBP-300HM6

SBP-300HM7	SBP-300HM8	SBP-122HM/SBP-122HMW	SBP-168HM	SBP-201HM	SBP-317HM/317HMW	SBP-099HMW	SBP-300HM5
		Ivory / White			Ivory / White		

SBP-329HM	SBP-276HM/276HMW	SBP-167HM	SBP-187HM	SBP-301HM5	SBP-300HMW/300HMW5	SBP-300HMW7	SBP-201HMW
	Ivory / White						

Built-in SFP install base for PTZ

SBP-300HF/301HF/302HF/303HF

Tilt mount

SBP-300TM1/300TM	SBP-160TM

Ceiling mount, Parapet mount

SBP-300CM/300LM	SBP-300CMW/300LMW

Wall mount

SBP-300WM1/300WMW1	SBP-300WM
Ivory / White	

* You can find applicable models with accessory selector www.hanwha-security.com/en/products/accessory-selector/

ACCESSORY

Wall mount

SBP-300WMW	SBP-390WMW2	SBP-137WM/137WMW	SBP-137WM1/137WMW1	SBP-120WM	SBP-390WM1/390WM2	SBP-120WMW	SBP-125WMW
		Ivory / White	Ivory / White * with back plate				

Pole mount

SBU-500WM	SBP-300PM/300PMW	SBP-302PM	SBP-303PM
	Ivory / White		

Corner mount base

SBP-300KM/300KMW
Ivory / White

Wall mount base, Installation box

SBP-300B/300NB	SBP-300BW/300NBW

Extension Pendant Pipe

SBP-302CM-06

Weather cap

SBV-160WC	SBV-120WC/120WCW
	Ivory / White

Back Box

SBV-116B / SBF-100B1	SBV-136B / 136BW	SBV-158G / 120GW / 125BW	SBO-100B1/126B

Stainless accessory

SBP-300HMS6	SBP-300WMS1/300WMS

Fixed Housing

SBP-300PMS/300KMS	SHB-4300H/4300H1/4300H2/4300HP	SHB-4200/4200H	SHB-D-9000H	SHB-9000H	SBP-300TM1/300TM
				COMING SOON	

Fixed Mount

STB-400/4150V

IR Illuminator

SPI-50

ATM mounting bracket

STB-2000

Skin cover

SBC-160B/180B

Pinhole Height Strip

SLA-H-4680VA

Bracket

SBL-100D	SBL-100C

Network I/O Box

SPM-4210

* You can find applicable models with accessory selector www.hanwha-security.com/en/products/accessory-selector/

Smoked dome cover							
SPB-IND5/IND6/IND7	SPB-IND11/IND81/IND81V	SPB-IND12/IND72	SPB-IND83/IND83V	SPB-IND85W	SPG-IND12B	SPG-IND16B	SPG-IND72B

SPG-IND73B	SPG-FCD85W	SPB-VAN3	SPB-VAN11/VAN71/VAN81	SPB-VAN12/VAN72	SPB-VAN85W	SPB-PTZ71	SPB-PTZ73

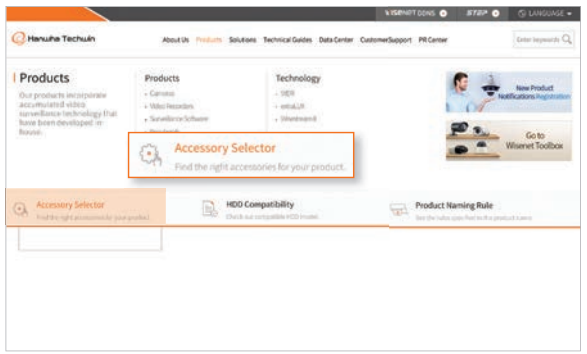
SPB-INW12 / INW13 / INW72 / INW73	SPB-VAW12 / VAW72

* You can find applicable models with accessory selector www.hanwha-security.com/en/products/accessory-selector/

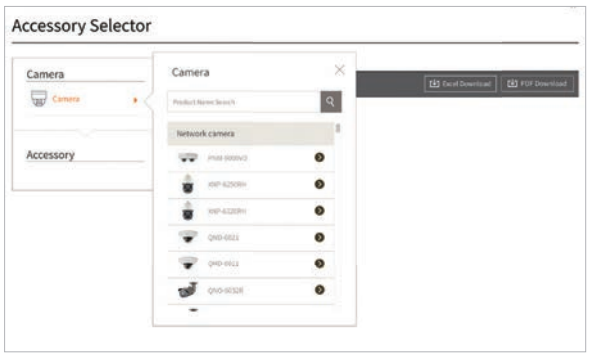
Accessory & Mount Selector Tool

The Hanwha Techwin Mount Selector easily shows compatible mounts and accessories. Simply enter a model number or select one from the drop-down menu. The tool will also display backbox adapters, included or optional, as well as compatibility with various gangboxes (direct-mount & with plate). The mount selector is an Excel Worksheet. Go to our website to access the Mount Selector.

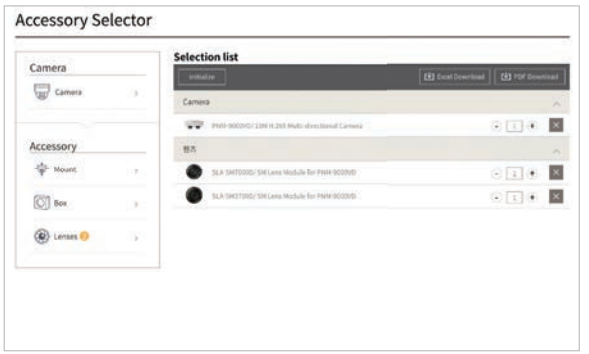
How to use **Accessory Selector**



Step1. Click "Accessory Selector" under "Tools" on hanwhasecurity.com



Step2. Select camera you're interested in, then choose compatible mounts or lens including amount



Step3. Results you searched can be exported with PDF and excel format

NOTES

Hanwha Techwin America
500 Frank W. Burr Blvd. Suite 43 Teaneck, NJ 07666
Toll Free : +1.877.213.1222
Direct : +1.201.325.6920
Fax : +1.201.373.0124
HanwhaSecurity.com

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