



Product line-up

1st Quarter 2019



Hanwha

Hanwha is ranked as the 8th largest corporation in South Korea based on asset size, and is a Fortune 500 company. With 70 affiliates and 325 global networks, Hanwha's global businesses span the manufacturing and construction; finance, and service and leisure industries. With its 25 years of technological knowledge and expertise in optical and image processing, Hanwha Techwin is leading the CCTV and video surveillance market.





- 1977 Established the company
- 1991 Initiation of video surveillance business
- 1993 Development of nation's first iris lens for CCTV
- 2008 Release of world's first 37x PTZ camera
- 2010 Samsung Techwin acquires Samsung's video surveillance business
- 2012 Release of world's first 37x zoom interworking IR PTZ camera
- 2013 Release of Wisenet3 camera
- 2015 Hanwha group acquires Samsung Techwin and Hanwha Techwin is established
- 2016 Development of WISENET5 ISP Chip (SoC)
- 2017 Release of Wisenet X camera

WISeNET

WISeNET is the signature brand of Hanwha Techwin's security business. It embodies the spirit of building a safe, secure, and connected world.



Complete

- Seamless Security
- Dependable Quality
- Comprehensive Solutions

Assured

- Partner-assured
- Buyer-assured
- User-assured

Value-added

- Added Usability
- Added Flexibility
- Added Possibility

Based on world class optical image processing technology, Wisenet provides high-resolution cameras, recording devices and enterprise management software. For a complete security solution including intelligent video analytics, Hanwha offers a full lineup of video surveillance solutions.



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WISENET X series

Defining the new standard of excellence

The Most Powerful Chipset Wisenet 5

Wisenet X series is supercharged by the most powerful chipset ever incorporated into a full camera range.

The Wisenet 5 chip uses an all-new architecture that enables faster processing. That means you get the best video performance just when you need it.



True WDR performance (150dB)
Improve bandwidth by up to 99% using WiseStream II
Digital image stabilization with Built-in Gyro sensor
Clearer and colored image even in low light environments
Enhanced video / audio analytics



WISENET X PLUS

Easy Installation with Modular Structure

The X Plus cameras feature a modular design that makes installation and maintenance simpler than ever. With extended tilt range, DIS & shock detection with gyro sensors, motorized PTRZ, and optional skin covers, you will soon discover why X Plus is one of the most versatile camera lines on the market.



Magnetic modular design



Extended tilt range and audio playback on event

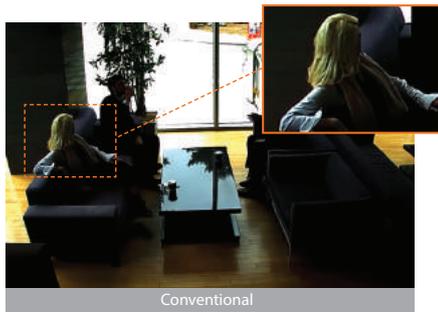


Optional accessories for various applications

WISENET X series

True WDR performance(150dB)

Conventional WDR captures images by taking 2 frames taken at different exposures, whereas Wisenet X series cameras utilize 4 frame capture at different exposure levels to create a combined image. With the development of cutting-edge WDR technology, Wisenet X series cameras address a limitation found in conventional WDR cameras while producing clear and vivid images.



Conventional



Wisenet X series

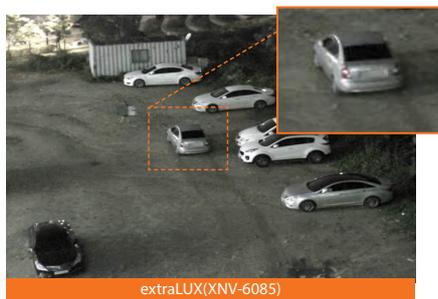
※ 150dB WDR only available in 2MP X series

extraLUX provides clear and colored images, even in low-light environments

Wisenet X series achieves optimal performance in low-light conditions by producing crystal-clear and true-color images without IR LEDs, regardless of the environment or time of day. The extraLUX series (XNO-6085R, XND/XNV-6085(V)) feature outstanding F0.94 lens with the 1/2" CMOS sensor, capturing vivid color images even in low-light environments.



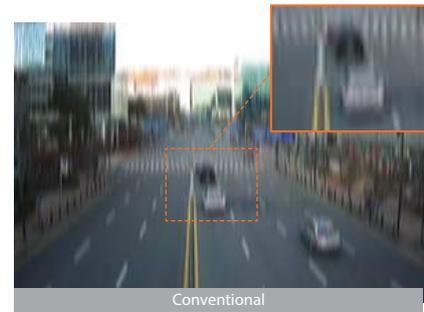
Conventional



extraLUX(XNV-6085)

Digital Image Stabilization(DIS) with built-in Gyro sensor

Advances in Wisenet image stabilization technology allows the reduction of motion blur caused by wind or vibration. A gyroscopic sensor plus DIS technology is specifically added to the Wisenet X series cameras for more accurate stabilization.



Conventional



Wisenet X series

Improve bandwidth by using WiseStream II

Using WiseStream II, Hanwha Techwin's original video compression technology, the Wisenet X series reduces data by up to 99% compared to current H.264 technology, when combined with H.265 compression. System costs are also greatly reduced without comprising image quality.



WiseStream II OFF : 7160kbps **WiseStream II ON : 74kbps**



WiseStream II OFF : 7260kbps **WiseStream II ON : 1817kbps**

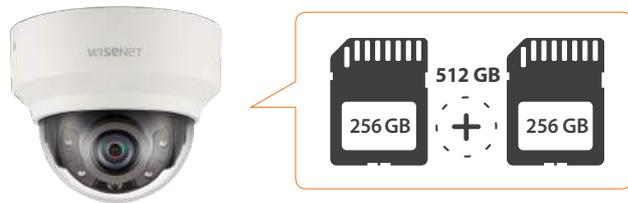
More convenient installation with USB

Using the USB port, the installer can easily connect Wisenet X series cameras and mobile devices through Wi-Fi. Viewing and adjusting camera angles can be done immediately after installation by using a smartphone. No additional devices are required, saving both time and money.



Dual SD slots

Dual SD slots allow up to 512 GB to be saved automatically to the camera, keeping data safe in the event of an unstable network. Obviously this allows to record more video footage than single SD slot.



Handover to PTZ

The handover feature allows a PTZ camera* to receive an alarm(motion detection) from Wisenet X series camera operating on the same IP video surveillance system. Once the notification is received, the PTZ camera will zoom into the assigned camera pre-set location.

※PNP-9200RH / XNP-6370RH



Fog detection

Wisenet X series delivers outstanding image quality in foggy weather with Fog detection. Any change in an image is automatically detected with the defog function to provide a clear image.



Enhanced Video / Audio Analytics

Wisenet X series support a variety of exclusive Video and Audio Analytics, providing enhanced monitoring solutions and market intelligence.

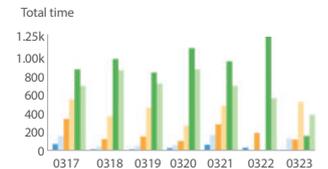
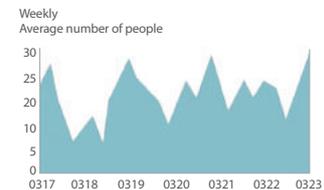
Loitering detection

This feature detects when an object remains in a designated area longer than the time threshold set by the user.



Queue management

This feature provides statistical analysis and measurement for average dwell time and number of people in a queue. This insight is critical for businesses to manage their operations more efficiently, while providing the insight necessary to manage campaigns, displays and promotions throughout retail locations.



Sound classification

Wisenet X series cameras help users respond immediately in dangerous situations, by classifying sounds such as gunshot, glass breakage, scream and explosion.





XNB-8000



XNO-8080R



XNO-8020R/8030R/8040R



XND-8081VZ/8081FZ

NEW



XND-8081RV/8081RF

NEW



XND-8080R/8080RV

Resolution	5MP	5MP	5MP	5MP	5MP	5MP
Imaging Device	1/1.8" 6M CMOS	1/1.8" 6M CMOS	1/1.8" 6M CMOS	1/1.8" 6M CMOS	1/1.8" 6M CMOS	1/1.8" 6M CMOS
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 / Frame Rate	5M / 30fps	5M / 30fps	5M / 30fps	5M / 30fps	5M / 30fps	5M / 30fps
Streaming Capacity	Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)	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)	20 (Unicast)	20 (Unicast)
Min. Illumination	Color : 0.07Lux B/W : 0.007Lux	Color : 0.07Lux B/W : 0Lux (IR LED on)	Color : 0.16Lux B/W : 0Lux (IR LED on)	Color : 0.07 Lux B/W : 0.007 Lux	Color : 0.07 Lux B/W : 0Lux (IR LED on)	Color : 0.07Lux B/W : 0Lux (IR LED on)
Video Output	CVBS 1.0Vpp, Micro USB type B	CVBS 1.0Vpp, Micro USB type B	CVBS 1.0Vpp, Micro USB type B	Micro USB type B	CVBS 1.0Vpp, Micro USB type B	CVBS 1.0Vpp, Micro USB type B
Lens	-	3.7 ~ 9.4mm (2.5x) motorized V/F (F1.2)	3.7mm fixed (F1.6) (XNO-8020R) 4.6mm fixed (F1.6) (XNO-8030R) 7.0mm fixed (F1.6) (XNO-8040R)	3.6~9.4mm (2.6x) motorized V/F (F1.2)	3.9~9.4mm (2.4x) motorized V/F (F1.3)	3.9 ~ 9.4mm (2.4x) motorized V/F (F1.3)
Angular Field of View	-	H : 100.2°(Wide) ~ 38.7°(Tele) / V : 72.7°(Wide) ~ 29.0°(Tele) / D : 132.0°(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 : 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)
Focus Control	Simple focus / Manual	Simple focus (motorized V/F) / Manual	-	Simple focus (motorized V/F) / Manual	Simple focus (motorized V/F) / Manual	Simple focus (motorized V/F) / Manual
IR Viewable Length	-	50m (164.04ft)	30m (98.43ft)	-	70m (229.66ft)	30m (98.43ft)
Pan / Tilt / Rotate	-	-	-	±175° / 0~85° / ±175°	±175° / 0~85° / ±175°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°
Day & Night	True (ICR)	True (ICR)	True (ICR)	True(ICR)	True (ICR)	True (ICR)
Backlight Compensation	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)	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)	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)
Digital Image Stabilization	Support (Built in Gyro sensor)	Support	Support	Support (Built in Gyro sensor)	Support (Built in Gyro sensor)	Support
Video & Audio Analytics	Tampering, Loitering, Directional detection, Defocus detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Face detection, Digital auto tracking, Sound classification	Tampering, Loitering, Directional detection, Defocus detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Face detection, Digital auto tracking, Sound classification	Tampering, Loitering, Directional detection, Defocus detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Face detection, Digital auto tracking, Sound classification, Heatmap, People counting, Queue management	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, Shock detection, Heatmap, People counting, Queue management, Audio Playback on event	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, Shock detection, Heatmap, People counting, Queue management, Audio Playback on event	Tampering, Loitering, Directional detection, Defocus detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Face detection, Digital auto tracking, Sound classification
Protocol	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
Alarm I/O	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1.	1 / 1
Audio	Bi-Directional	Bi-Directional	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	SD/SDHC/SDXC, NAS, Local PC	SD/SDHC/SDXC, NAS, Local PC
Environment Protection	-	IP67, IP66, NEMA 4X, IK10	IP67, IP66, NEMA 4X, IK10	IP52, IK10 (XND-8081VZ) IP52, Plenum rate (XND-8081VZF)	IP52, Plenum rate (XND-8081RF) IP52, IK10 (XND-8081RV)	IK08
Operating Temperature	-10°C ~ +55°C (+14°F ~ +131°F)	-40°C ~ +55°C (-40°F ~ +131°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -20°C (-4°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)
Power	Max. 8.5W (24V AC) Max. 7.5W (12V DC) Max. 8.5W (PoE)	Max. 14.5W (24V AC) Max. 12.5W (12V DC) Max. 12.95W (PoE)	Max. 9.3W (12V DC) Max. 10.3W (PoE)	Max. 8.5W (12V DC) Max. 10W (PoE)	TBD (12V DC) TBD (PoE)	Max. 9W (12V DC) Max. 10W (PoE)
Dimensions (WxHxD) / Weight	73.1 x 66.6 x 147.8mm (2.88" x 2.62" x 5.82") 420g (0.93 lb)	Ø91.0 x 368.6mm (Ø3.58" x 14.51") (Without Sunshield) 2.18Kg (4.81 lb)	Ø70.0 x 296.0mm (Ø2.76" x 11.65") (Without Sunshield) 1.22Kg (2.69 lb)	Ø 160 x 125mm (6.30" x 4.92") 1.45 kg (3.2lb) (XND-8081VZ) Ø 205 x 155mm (8.07" x 6.10") 1.85 kg (4.08lb) (XND-8081FZ)	Ø 160 x 125mm (6.30" x 4.92") 1.45 kg (3.2lb) (XND-8081RV) Ø 205 x 155mm (8.07" x 6.10") 1.85 kg (4.08lb) (XND-8081RF)	Ø140.8 x 113.0mm (Ø5.54" x 4.45") 628g (1.39 lb) (XND-8080R) 732g (1.61 lb) (XND-8080RV)
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	Motorized Pan / Tilt / Rotate, Modular design, Anti dust	Modular design, Anti dust	Handover, WiseStream II, Advanced video analytics, Sound classification (Explosion, Gunshot, Glass breakage, Scream etc), Hallway View



XND-8020R/8030R/8040R



XND-8020F



XNV-8081Z



XNV-8081R



XNV-8080R



XNV-8080RS

Resolution	5MP	5MP	5MP	5MP	5MP	5MP
Imaging Device	1/1.8" 6M CMOS	1/1.8" 6M CMOS	1/1.8" 6M CMOS	1/1.8" 6M CMOS	1/1.8" 6M CMOS	1/1.8" 6M CMOS
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 / Frame Rate	5M / 30fps	5M / 30fps	5M / 30fps	5M / 30fps	5M / 30fps	5M / 30fps
Streaming Capacity	Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)	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)	20 (Unicast)	20 (Unicast)
Min. Illumination	Color : 0.16Lux B/W : 0Lux (IR LED on)	Color : 0.16Lux B/W : 0.16Lux	Color : 0.07 Lux B/W : 0.007 Lux	Color : 0.07Lux B/W : 0Lux (IR LED on)	Color : 0.07Lux B/W : 0Lux (IR LED on)	Color : 0.07Lux B/W : 0Lux (IR LED on)
Video Output	CVBS 1.0Vpp, Micro USB type B	Micro USB type B	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	3.7mm fixed (F1.6) (XND-8020R) 4.6mm fixed (F1.6) (XND-8030R) 7.0mm fixed (F1.6) (XND-8040R)	3.7mm fixed (F1.6)	3.6 ~ 9.4mm (2.6x) motorized V/F (F1.2)	3.9 ~ 9.4mm (2.4x) motorized V/F (F1.3)	3.9 ~ 9.4mm (2.4x) motorized V/F (F1.3)	3.9 ~ 9.4mm (2.4x) motorized V/F (F1.3)
Angular Field of View	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 : 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)	H : 92.1° (Wide) ~ 38.7° (Tele) / V : 67.2° (Wide) ~ 29.0° (Tele) / D : 119.9° (Wide) ~ 48.6° (Tele)
Focus Control	-	Manual	Simple focus (motorized V/F) / Manual	Simple focus (motorized V/F) / Manual	Simple focus (motorized V/F) / Manual	Simple focus (motorized V/F) / Manual
IR Viewable Length	30m (98.43ft)	-	-	70m (229.66ft)	50m (164.04ft)	50m (164.04ft)
Pan / Tilt / Rotate	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 355° / 0° ~ 47° / 0° ~ 353°	±175° / 0~85° / ±175°	±175° / 0~85° / ±175°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°
Day & Night	True (ICR)	Auto (Electrical)	True (ICR)	True (ICR)	True (ICR)	True (ICR)
Backlight Compensation	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)	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)	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)
Digital Image Stabilization	Support	Support	Support (Built in Gyro sensor)	Support (Built in Gyro sensor)	Support	Support
Video & Audio Analytics	Tampering, Loitering, Directional detection, Defocus detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Face detection, Digital auto tracking, Sound classification, Heatmap, People counting, Queue management	Tampering, Loitering, Directional detection, Defocus detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Face detection, Digital auto tracking, Sound classification, Heatmap, People counting, Queue management	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, Shock detection, Heatmap, People counting, Queue management, Audio Playback on event	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, Shock detection, Heatmap, People counting, Queue management, Audio Playback on event	Tampering, Loitering, Directional detection, Defocus detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Face detection, Digital auto tracking, Sound classification	Tampering, Loitering, Directional detection, Defocus detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Face detection, Digital auto tracking, Sound classification
Protocol	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
Alarm I/O	1 / 1	-	1 / 1	1 / 1	1 / 1	1 / 1
Audio	Bi-Directional	Uni-Directional	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	SD/SDHC/SDXC, NAS, Local PC	SD/SDHC/SDXC, NAS, Local PC
Environment Protection	IK08	-	IP67, IP66, IP6K9K, NEMA 4X, IK10+	IP67, IP66, NEMA 4X, IK10+	IP67, IP66, NEMA 4X, IK10	IP66, NEMA 4X, IK10+
Operating Temperature	-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 -35°C (-31°F)	-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)
Power	Max. 8W (12V DC) Max. 9W (PoE)	Max. 4.7W (PoE)	Max. 11W (24V AC) Max. 9.5W (12V DC) Max. 11W (PoE)	TBD (24V DC) TBD (12V AC)	Max. 14W (24V AC) Max. 11.5W (12V DC) Max. 12.95W (PoE)	Max. 11.5W (12V DC), Max. 12.95W (PoE), Max. 14W (24V AC)
Dimensions (WxHxD) / Weight	Ø110.0 x 90.0mm (Ø4.33" x 3.54") 380g (0.84 lb)	Ø98.9 x 129.1mm (Ø3.89" x 5.08") 275g (0.61 lb)	Ø180 x 125mm (7.09" x 4.92") 1.75 kg (3.86lb)	Ø180 x 125mm (7.09" x 4.92") 1.75 kg (3.86lb)	Ø160.0 x 118.5mm (Ø6.30" x 4.67") 1.01Kg (2.23 lb)	Ø162 X 120.5mm (Ø6.38" x 4.74") 2.68kg (5.91lb)
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)	Motorized Pan / Tilt / Rotate, Modular design	Modular design	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, SUS316L



XNV-8020R/8030R/8040R



XNF-8010R/8010RV/8010RVM



XNZ-6320



XNB-6005



XNB-6000

Resolution	5MP	6MP	2MP	2MP	2MP
Imaging Device	1/1.8" 6M CMOS	1/1.8" 6M CMOS	1/2.8" 2.4M CMOS	1/2" 2.17M 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	H.265, H.264, MJPEG
Resolution / Frame Rate	5M / 30fps	2048 x 2048 / 30fps	2M / 60fps	2M / 60fps	2M / 60fps
Streaming Capacity	Multiple (Up to 10 Profiles)	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)	20 (Unicast)
Min. Illumination	Color : 0.16Lux B/W : 0Lux (IR LED on)	Color : 0.1Lux B/W : 0Lux (IR LED on)	Color : 0.05Lux B/W : 0.005Lux	Color : 0.006Lux B/W : 0.0006Lux	Color : 0.01Lux B/W : 0.001Lux
Video Output	CVBS 1.0Vpp, Micro USB type B	CVBS 1.0Vpp, DIP connector type	CVBS 1.0Vpp, Micro USB type B	CVBS 1.0Vpp, Micro USB type B	CVBS 1.0Vpp, Micro USB type B
Lens	3.7mm fixed (F1.6) (XNV-8020R) 4.6mm fixed (F1.6) (XNV-8030R) 7.0mm fixed (F1.6) (XNV-8040R)	1.6mm fixed (F1.6)	4.44 ~ 142.6mm (Optical 32x) (F1.6)	-	-
Angular Field of View	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 : 192° / V : 192° / D : 192°	H : 61.8°(Wide) ~ 2.19°(Tele) / V : 36.2°(Wide) ~ 1.24°(Tele)	-	-
Focus Control	-	Simple focus / Manual	Auto / Manual / One shot AF	Simple focus / Manual	Simple focus / Manual
IR Viewable Length	30m (98.43ft)	15m (49.21ft)	-	-	-
Pan / Tilt / Rotate	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	-	-	-	-
Day & Night	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)
Backlight Compensation	WDR (120dB)	WDR (120dB)	WDR (150dB)	WDR (150dB)	WDR (150dB)
Digital Noise Reduction	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)
Digital Image Stabilization	Support	-	Support (Built in Gyro sensor)	Support (Built in Gyro sensor)	Support (Built in Gyro sensor)
Video & Audio Analytics	Tampering, Loitering, Directional detection, Defocus detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Face detection, Digital auto tracking, Sound classification, Heatmap, People counting, Queue management	Tampering, Loitering, Directional detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Sound classification, Heatmap, People counting, Queue management	Tampering, Loitering, Directional detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Face detection, Sound classification, Shock detection	Tampering, Loitering, Directional detection, Defocus detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Face detection, Digital auto tracking, Sound classification	Tampering, Loitering, Directional detection, Defocus detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Face detection, Digital auto tracking, Sound classification
Protocol	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
Alarm I/O	1 / 1	1 / 1	1 / 2	1 / 1	1 / 1
Audio	Bi-Directional	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	SD/SDHC/SDXC, NAS, Local PC
Environment Protection	IP67, IP66, IK10	IP66, IK10 (XNF-8010RV/8010RVM)	-	-	-
Operating Temperature	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -20°C (-4°F)	-10°C ~ +55°C (+14°F ~ +131°F) (XNF-8010R) -40°C ~ +55°C (-40°F ~ +131°F) (XNF-8010RV/8010RVM)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)
Power	Max. 8W (12V DC) Max. 9W (PoE)	Max. 11W (12V DC), Max. 12W (PoE)(XNF-8010R) Max. 12W (12V DC), Max. 12.95W (PoE) (XNF-8010RV, XNF-8010RVM)	Max 6.7W (12V DC) Max 7W (PoE)	Max. 9W (24V AC) Max. 8W (12V DC) Max. 8.5W (PoE)	Max. 8W (24V AC) Max. 6.5W (12V DC) Max. 7.5W (PoE)
Dimensions (WxHxD) / Weight	Ø120.0 x 97.5mm (Ø4.72" x 3.84") 615g (1.36 lb)	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)	96 x 76 x 143.5mm (3.78" x 2.99" x 5.65") 578g (1.274 lb)	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	Handover, WiseStream II, Advanced video analytics, Sound classification (Explosion, Gunshot, Glass breakage, Scream etc), Hallway View	M12 Connector (XNF-8010RVM), Built-in MIC, On board dewarpping, Handover, WiseStream II, Heatmap, People counting	WiseStream II, Advanced video analytics, Sound classification (Explosion, Gunshot, Glass breakage, Scream etc), Defog, SFP Slot	extraLUX, 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



XNB-6001



SLA-T4680



SLA-T4680V



SLA-T2480



SLA-T2480V



SLA-T1080F

	XNB-6001	SLA-T4680	SLA-T4680V	SLA-T2480	SLA-T2480V	SLA-T1080F
Resolution	2MP	2MP	2MP	2MP	2MP	2MP
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	-	-	-	-	-
Resolution / Frame Rate	2M / 60fps	-	-	-	-	-
Streaming Capacity	Multiple (Up to 10 Profiles)	-	-	-	-	-
Max. User Access	20 (Unicast)	-	-	-	-	-
Min. Illumination	-	0.06Lux	0.06Lux	0.45Lux	0.45Lux	0.03Lux
Video Output	CVBS 1.0Vpp, Micro USB type B	-	-	-	-	-
Lens	-	4.6mm Pinhole (F2.5)	4.6mm Pinhole (F2.5)	2.4mm fixed (F2.0)	2.4mm fixed (F2.0)	1.6mm fixed (F1.6)
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°
Focus Control	-	Fixed	Fixed	Fixed	Fixed	Fixed
IR Viewable Length	-	-	-	-	-	-
Pan / Tilt / Rotate	-	-	-	-	-	-
Day & Night	-	Electrical	Electrical	Electrical	Electrical	Electrical
Backlight Compensation	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)
Digital Noise Reduction	SSNRV (2D+3D Noise filter)	-	-	-	-	-
Digital Image Stabilization	Support	-	-	-	-	-
Video & Audio Analytics	Tampering, Loitering, Directional detection, Defocus detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Motion detection, Face detection, Digital auto tracking, Heatmap, People counting, Queue management	-	-	-	-	-
Protocol	ONVIF profile S/G, SUNAPI	-	-	-	-	-
Alarm I/O	1 / 1	-	-	-	-	-
Audio	Bi-Directional	-	-	-	-	-
Edge Storage	SD/SDHC/SDXC, NAS, Local PC	-	-	-	-	-
Environment Protection	-	-	-	-	-	-
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)
Power	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)	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)	Ø68.9 x 35mm (Ø2.71" x 1.38") (Lens) 8m (314.96") (Cable) 321g (0.71 lb)
Additional Features	Handover, WiseStream II, Advanced video analytics	Lens module for XNB-6001	Lens module for XNB-6001	Lens module for XNB-6001	Lens module for XNB-6001	Lens module for XNB-6001



XNO-6120R



XNO-6085R



XNO-6080R



XNO-L6080R



XNO-6010R/6020R

	XNO-6120R	XNO-6085R	XNO-6080R	XNO-L6080R	XNO-6010R/6020R
Resolution	2MP	2MP	2MP	2MP	2MP
Imaging Device	1/2.8" 2M CMOS	1/2" 2.17M 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	H.265, H.264, MJPEG
Resolution / Frame Rate	2M / 60fps	2M / 60fps	2M / 60fps	2M / 60fps	2M / 60fps
Streaming Capacity	Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)	Multiple (Up to 5 Profiles)	Multiple (Up to 10 Profiles)
Max. User Access	20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)
Min. Illumination	Color : 0.03Lux B/W : 0Lux (IR LED on)	Color : 0.004Lux B/W : 0Lux (IR LED on)	Color : 0.015Lux B/W : 0Lux (IR LED on)	Color : 0.1Lux B/W : 0Lux (IR LED on)	Color : 0.055Lux (XNO-6010R), 0.015Lux (XNO-6020R) B/W : 0Lux (IR LED on)
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	CVBS 1.0Vpp, Micro USB type B
Lens	5.2 ~ 62.4mm (Optical 12x) F1.6(Wide) / F3.0(Tele)	4.1 ~ 16.4mm (Optical 4x) motorized V/F F0.94(Wide) / F2.4(Tele)	2.8 ~ 12mm (4.3x) motorized V/F (F1.4)	3.2 ~ 10mm (3.1x) motorized V/F (F1.6)	2.4mm fixed (F2.0) (XNO-6010R) 4mm fixed (F1.4) (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)
Focus Control	Auto / Manual / One shot AF	Simple focus (motorized V/F) / Manual	Simple focus (motorized V/F) / Manual	Simple focus (motorized V/F) / Manual	-
IR Viewable Length	70m (229.66ft)	70m (229.66ft)	50m (164.04ft)	30m (98.43ft)	20m (65.61ft) (XNO-6010R) 30m (98.43ft) (XNO-6020R)
Pan / Tilt / Rotate	-	-	-	-	-
Day & Night	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)
Backlight Compensation	WDR (150dB)	WDR (150dB)	WDR (150dB)	WDR (120dB)	WDR (150dB)
Digital Noise Reduction	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)
Digital Image Stabilization	Support	Support (Built in Gyro sensor)	Support	Support	Support
Video & Audio Analytics	Tampering, Loitering, Directional detection, Defocus detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Face detection, Sound classification	Tampering, Loitering, Directional detection, Defocus detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Face detection, Digital auto tracking, Sound classification	Tampering, Loitering, Directional detection, Defocus detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Face detection, Digital auto tracking, Sound classification	Tampering, Defocus detection, Motion detection	Tampering, Loitering, Directional detection, Defocus detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Face detection, Digital auto tracking, Sound classification, Heatmap, People counting, Queue management
Protocol	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
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	SD/SDHC/SDXC, NAS, Local PC
Environment Protection	IP67, IP66, NEMA 4X, IK10	IP67, IP66, NEMA 4X, IK10	IP67, IP66, NEMA 4X, IK10	IP66, IK10	IP67, IP66, NEMA 4X, IK10
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 (-4°F)
Power	Max. 14.5W (24V AC) Max. 12.5W (12V DC) Max. 12.95W (PoE)	Max. 14.5W (24V AC) Max. 11.5W (12V DC) Max. 12.95W (PoE)	Max. 15W (24V AC) Max. 12W (12V DC) Max. 12.95W (PoE)	Max. 11W (PoE)	Max. 8.8W (12V DC) Max. 9.7W (PoE)
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 368.6mm (Ø3.58" x 14.51") (Without Sunshield) 2.18Kg (4.81 lb)	Ø91 x 322.9mm (Ø3.58" x 12.71") (Without Sunshield) 1.30Kg (2.86 lb)	Ø70 x 301.5mm (Ø2.76" x 11.87") (XNO-6010R) Ø70 x 296mm (Ø2.76" x 11.65") (XNO-6020R) (Without sunshield) 1.22Kg (2.69 lb)
Additional Features	Handover, WiseStream II, Advanced video analytics, Sound classification (Explosion, Gunshot, Glass breakage, Scream etc), Hallway View	extraLUX, 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	WiseStream II, Handover, Lens distortion correction, Defog, Hallway View	Handover, WiseStream II, Advanced video analytics, Sound classification (Explosion, Gunshot, Glass breakage, Scream etc), Hallway View



XND-6085/6085V



XND-6081V



XND-6081F



XND-6081VZ/6081FZ



XND-6081RV/6081RF

	XND-6085/6085V	XND-6081V	XND-6081F	XND-6081VZ/6081FZ	XND-6081RV/6081RF
Resolution	2MP	2MP	2MP	2MP	2MP
Imaging Device	1/2" 2.17M 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	H.265, H.264, MJPEG
Resolution / Frame Rate	2M / 60fps	2M / 60fps	2M / 60fps	2M / 60fps	2M / 60fps
Streaming Capacity	Multiple (Up to 10 Profiles)	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)	20 (Unicast)
Min. Illumination	Color : 0.004Lux B/W : 0.0004Lux	Color : 0.015Lux B/W : 0.0015Lux	Color : 0.015Lux B/W : 0.0015Lux	Color : 0.015 lux B/W : 0.0015 Lux	Color : 0.015 Lux B/W : 0Lux (IR LED on)
Video Output	CVBS 1.0Vpp, Micro USB type B	CVBS 1.0Vpp, Micro USB type B	CVBS 1.0Vpp, Micro USB type B	Micro USB type B	CVBS 1.0Vpp, Micro USB type B
Lens	4.1 ~ 16.4mm (Optical 4x) F0.94(Wide) / F2.4(Tele)	2.8 ~ 12mm (4.3x) motorized V/F (F1.4)	2.8 ~ 12mm (4.3x) motorized V/F (F1.4)	2.8~12mm(4.3x) motorized V/F (F1.4)	2.8 ~ 12mm (4.3x) motorized V/F (F1.4)
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)
Focus Control	Simple focus (motorized V/F) / Manual	Simple focus (motorized V/F) / Manual	Simple focus (motorized V/F) / Manual	Simple focus (motorized V/F) / Manual	Simple focus (motorized V/F) / Manual
IR Viewable Length	-	-	-	-	70m (229.66ft)
Pan / Tilt / Rotate	±175° / ±73° / ±175°	±175° / 0~85° / ±175°	±175° / 0~85° / ±175°	±175° / 0~85° / ±175°	±175° / 0~85° / ±175°
Day & Night	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)
Backlight Compensation	WDR (150dB)	WDR (150dB)	WDR (150dB)	WDR (150dB)	WDR (150dB)
Digital Noise Reduction	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)
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)
Video & Audio Analytics	Tampering, Loitering, Directional detection, Defocus detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Face 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, Shock detection, Heatmap, People counting, Queue management, Audio Playback on event	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, Shock detection, Heatmap, People counting, Queue management, Audio Playback on event	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, Shock detection, Heatmap, People counting, Queue management, Audio Playback on event	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, Shock detection, Heatmap, People counting, Queue management, Audio Playback on event
Protocol	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
Alarm I/O	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
Audio	Bi-Directional	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	SD/SDHC/SDXC, NAS, Local PC
Environment Protection	IK08	IP52, IK10	IP52, Plenum rate	IP52, IK10 (XND-6081VZ) IP52, Plenum rate (XND-6081FZ)	IP52, Plenum rate
Operating Temperature	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -10°C (+14°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-25°C ~ +60°C (-13°F ~ +140°F)	-10°C ~ +55°C (+14°F ~ +131°F)
Power	Max. 8.6W (12V DC) Max. 10.2W (PoE)	TBD (12V DC) TBD (PoE)	TBD (12V DC) TBD (PoE)	Max. 8.5W (12V DC) Max. 10W (PoE)	TBD (12V DC) TBD (PoE)
Dimensions (WxHxD) / Weight	Ø160.0 x 140.0mm (Ø6.30" x 5.51") 1.10 kg (2.43 lb) (XND-6085) 1.25 kg (2.76 lb) (XND-6085V)	Ø 160 x 125mm (6.30" x 4.92") 1.45kg (3.2lb)	Ø 205 x 155mm(8.07" x 6.10") 1.85 kg (4.08lb)	Ø 160 x 125mm (6.30" x 4.92") 1.45kg (3.2lb) (XND-6081VZ) Ø 205 x 155mm(8.07" x 6.10") 1.85 kg (4.08lb) (XND-6081FZ)	Ø 160 x 125mm (6.30" x 4.92") 1.45kg (3.2lb) (XND-6081RV) Ø 205 x 155mm(8.07" x 6.10") 1.85 kg (4.08lb) (XND-6081RF)
Additional Features	extraLUX, Handover, WiseStream II, Advanced video analytics, Sound classification (Explosion, Gunshot, Glass breakage, Scream etc), Hallway View	Modular design, Anti dust	Modular design, Anti dust	Motorized Pan / Tilt / Rotate, Modular design, Anti dust	Modular design, Anti dust



XND-6080/6080V



XND-6080R/6080RV



XND-L6080R/L6080RV



XND-L6080V



XND-6020R

	XND-6080/6080V	XND-6080R/6080RV	XND-L6080R/L6080RV	XND-L6080V	XND-6020R
Resolution	2MP	2MP	2MP	2MP	2MP
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	H.265, H.264, MJPEG
Resolution / Frame Rate	2M / 60fps	2M / 60fps	2M / 60fps	2M / 60fps	2M / 60fps
Streaming Capacity	Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)	Multiple (Up to 5 Profiles)	Multiple (Up to 5 Profiles)	Multiple (Up to 10 Profiles)
Max. User Access	20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)
Min. Illumination	Color : 0.015Lux B/W : 0.0015Lux	Color : 0.015Lux B/W : 0Lux (IR LED on)	Color : 0.1Lux B/W : 0Lux (IR LED on)	Color : 0.1Lux B/W : 0.01Lux	Color : 0.015Lux B/W : 0Lux (IR LED on)
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	CVBS 1.0Vpp, Micro USB type B
Lens	2.8 ~ 12mm (4.3x) motorized V/F (F1.4)	2.8 ~ 12mm (4.3x) motorized V/F (F1.4)	3.2 ~ 10mm (3.1x) motorized V/F (F1.6)	3.2 ~ 10mm (3.1x) motorized V/F (F1.6)	4mm fixed (F1.4)
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 : 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°
Focus Control	Simple focus (motorized V/F) / Manual	Simple focus (motorized V/F) / Manual	Simple focus (motorized V/F) / Manual	Simple focus (motorized V/F) / Manual	-
IR Viewable Length	-	30m (98.43ft)	20m (65.62ft)	-	30m (98.43ft)
Pan / Tilt / Rotate	0° ~ 354° / 0° ~ 67° / 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°
Day & Night	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)
Backlight Compensation	WDR (150dB)	WDR (150dB)	WDR (120dB)	WDR (120dB)	WDR (150dB)
Digital Noise Reduction	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)
Digital Image Stabilization	Support	Support	Support	Support	Support
Video & Audio Analytics	Tampering, Loitering, Directional detection, Defocus detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Face detection, Digital auto tracking, Sound classification	Tampering, Loitering, Directional detection, Defocus detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Face detection, Digital auto tracking, Sound classification	Tampering, Defocus detection, Motion detection	Tampering, Defocus detection, Motion detection	Tampering, Loitering, Directional detection, Defocus detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Face detection, Digital auto tracking, Sound classification, Heatmap, People counting, Queue management
Protocol	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
Alarm I/O	1 / 1	1 / 1	-	-	1 / 1
Audio	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	SD/SDHC/SDXC, NAS, Local PC
Environment Protection	IK08	IK08	IK08	IK08	IK08
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)
Power	Max. 6W (12V DC) Max. 6.5W (PoE)	Max. 9W (12V DC) Max. 10W (PoE)	Max. 8W (PoE)	Max. 6W (PoE)	Max. 8W (12V DC) Max. 9W (PoE)
Dimensions (WxHxD) / Weight	Ø140.8 x 113.0mm (Ø5.54" x 4.45") 610g (1.34lb) (XND-6080) 714g (1.57lb) (XND-6080V)	Ø140.8 x 113.0mm (Ø5.54" x 4.45") 624g (1.38lb) (XND-6080R) 724g (1.60lb) (XND-6080RV)	Ø140.8 x 113.0mm (Ø5.54" x 4.45") 580g (1.28 lb) (XND-L6080R) 690g (1.52 lb) (XND-L6080RV)	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)
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	WiseStream II, Lens distortion correction, Defog, Hallway View	WiseStream II, Lens distortion correction, Defog, Hallway View	Handover, WiseStream II, Advanced video analytics, Sound classification (Explosion, Gunshot, Glass breakage, Scream etc), Hallway View



XND-6011F



XND-6010



XNV-6120/6120R



XNV-6120RS



XNV-6085

	XND-6011F	XND-6010	XNV-6120/6120R	XNV-6120RS	XNV-6085
Resolution	2MP	2MP	2MP	2MP	2MP
Imaging Device	1/2.8" 2M CMOS	1/2.8" 2M CMOS	1/2.8" 2M CMOS	1/2.8" 2M CMOS	1/2" 2.17M CMOS
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 / Frame Rate	2M / 60fps	2M / 60fps	2M / 60fps	2M / 60fps	2M / 60fps
Streaming Capacity	Multiple (Up to 10 Profiles)	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)	20 (Unicast)
Min. Illumination	Color : 0.055Lux B/W : 0.055Lux	Color : 0.055Lux B/W : 0.0055Lux	Color : 0.03Lux, B/W : 0.003Lux (XNV-6120) Color : 0.03Lux, B/W : 0Lux (IR LED on) (XNV-6120R)	Color : 0.03Lux B/W : 0Lux (IR LED on)	Color : 0.004Lux B/W : 0.0004Lux
Video Output	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	CVBS 1.0Vpp, Micro USB type B
Lens	2.8mm fixed (F2.0)	2.4mm fixed (F2.0)	5.2 ~ 62.4mm (Optical 12x) F1.6(Wide) / F3.0(Tele)	5.2 ~ 62.4mm (Optical 12x) F1.6(Wide) / F3.0(Tele)	4.1 ~ 16.4mm (Optical 4x) F0.94(Wide) / F2.4(Tele)
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) / D : 61.40°(Wide) ~ 6.06°(Tele)	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)
Focus Control	Manual	-	Auto / Manual / One shot AF	Auto / Manual / One shot AF	Simple focus (motorized V/F) / Manual
IR Viewable Length	-	-	70m (229.66ft) (XNV-6120R)	70m (229.66ft)	-
Pan / Tilt / Rotate	0° ~ 355° / 0° ~ 47° / 0° ~ 353°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 354° / 0° ~ 75° / 0° ~ 355°	0° ~ 354° / 0° ~ 75° / 0° ~ 355°	±175° / ±73° / ±175°
Day & Night	Auto (Electrical)	True (ICR)	True (ICR)	True (ICR)	True (ICR)
Backlight Compensation	WDR(150dB)	WDR (150dB)	WDR (150dB)	WDR (150dB)	WDR (150dB)
Digital Noise Reduction	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)
Digital Image Stabilization	Support	Support	Support (Built in Gyro sensor)	Support (Built in Gyro sensor)	Support (Built in Gyro sensor)
Video & Audio Analytics	Tampering, Loitering, Directional detection, Defocus detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Face detection, Digital auto tracking, Sound classification, Heatmap, People counting, Queue management	Tampering, Loitering, Directional detection, Defocus detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Face detection, Digital auto tracking, Sound classification, Heatmap, People counting, Queue management	Tampering, Loitering, Directional detection, Defocus detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Face detection, Sound classification	Tampering, Loitering, Directional detection, Defocus detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Face detection, Digital auto tracking, Sound classification	Tampering, Loitering, Directional detection, Defocus detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Face detection, Digital auto tracking, Sound classification
Protocol	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
Alarm I/O	-	1 / 1	1 / 1	1 / 1	1 / 1
Audio	Uni-Directional	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	SD/SDHC/SDXC, NAS, Local PC
Environment Protection	-	IK08	IP67, IP66, NEMA 4X, IK10	IP66, NEMA 4X, IK10+	IP67, IP66, NEMA 4X, IK10
Operating Temperature	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-40°C ~ +55°C (-40°F ~ +131°F) * Start up above -35°C (-31°F)	-40°C ~ +55°C (-40°F ~ +131°F)	-40°C ~ +55°C (-40°F ~ +131°F) * Start up above -35°C (-31°F)
Power	Max. 4.7W	Max. 5.5W (12V DC) Max. 6W (PoE)	Max. 8.2W (24V AC), Max. 7W (12V DC), Max. 7.8W (PoE) (XNV-6120) Max. 14W (24V AC), Max. 11.5W (12V DC), Max. 12.95W (PoE) (XNV-6120R)	Max. 14W (24V AC) Max. 11.5W (12V DC) Max. 12.95W (PoE)	Max. 13.5W (24V AC), Max. 11.1W (12V DC), Max. 12.1W (PoE)
Dimensions (WxHxD) / Weight	Ø98.9 x 129mm (Ø3.89" x 5.08") 275g (0.61 lb)	Ø110.0 x 90.0mm (Ø4.33" x 3.54") 365g (0.80 lb)	Ø160.0 x 128.5mm (Ø6.30" x 5.06") 985g (2.17 lb) (XNV-6120) 995g (2.19 lb) (XNV-6120R)	Ø162 x 134.5mm (Ø6.38" x 5.3") 2.92Kg (6.44 lb)	Ø160.0 x 140.0mm (Ø6.30" x 5.51") 1.40kg (3.09 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, SUS316L	extraLUX, Handover, WiseStream II, Advanced video analytics, Sound classification (Explosion, Gunshot, Glass breakage, Scream etc) Hallway View



XNV-6081Z



XNV-6081R



XNV-6081



XNV-6080



XNV-6080R

	XNV-6081Z	XNV-6081R	XNV-6081	XNV-6080	XNV-6080R
Resolution	2MP	2MP	2MP	2MP	2MP
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	H.265, H.264, MJPEG
Resolution / Frame Rate	2M / 60fps	2M / 60fps	2M / 60fps	2M / 60fps	2M / 60fps
Streaming Capacity	Multiple (Up to 10 Profiles)	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)	20 (Unicast)
Min. Illumination	Color : 0.015 lux B/W : 0.0015 Lux	Color : 0.015 Lux B/W : 0Lux (IR LED on)	Color : 0.015 Lux B/W : 0.015 Lux	Color : 0.015Lux B/W : 0.0015Lux	Color : 0.015Lux B/W : 0Lux (IR LED on)
Video Output	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	CVBS 1.0Vpp, Micro USB type B
Lens	2.8 ~ 12mm (4.3x) motorized V/F (F1.4)	2.8 ~ 12mm (4.3x) motorized V/F (F1.4)	2.8 ~ 12mm (4.3x) motorized V/F (F1.4)	2.8 ~ 12mm (4.3x) motorized V/F (F1.4)	2.8 ~ 12mm (4.3x) motorized V/F (F1.4)
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)
Focus Control	Simple focus(Motorized V/F) / Manual	Simple focus (motorized V/F) / Manual	Simple focus (motorized V/F) / Manual	Simple focus (motorized V/F) / Manual	Simple focus (motorized V/F) / Manual
IR Viewable Length	-	70m (229.66ft)	-	-	50m (164.04ft)
Pan / Tilt / Rotate	±175° / 0~85° / ±175°	±175° / 0~85° / ±175°	±175° / 0~85° / ±175°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°
Day & Night	Auto (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)
Backlight Compensation	WDR (150dB)	WDR (150dB)	WDR (150dB)	WDR (150dB)	WDR (150dB)
Digital Noise Reduction	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)
Digital Image Stabilization	Support (Built in Gyro sensor)	Support (Built in Gyro sensor)	Support (Built in Gyro sensor)	Support	Support
Video & Audio Analytics	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, Shock detection, Heatmap, People counting, Queue management, Audio Playback on event	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, Shock detection, Heatmap, People counting, Queue management, Audio Playback on event	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, Shock detection, Heatmap, People counting, Queue management, Audio Playback on event	Tampering, Loitering, Directional detection, Defocus detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Face detection, Digital auto tracking, Sound classification	Tampering, Loitering, Directional detection, Defocus detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Face detection, Digital auto tracking, Sound classification
Protocol	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
Alarm I/O	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
Audio	Bi-Directional	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	SD/SDHC/SDXC, NAS, Local PC
Environment Protection	IP67, IP66, IP6K9K, NEMA 4X, IK10+	IP67, IP66, NEMA 4X, IK10+	IP67, IP66, NEMA 4X, IK10+	IP67, IP66, NEMA 4X, IK10	IP67, IP66, NEMA 4X, IK10
Operating Temperature	-50°C ~ +60°C (-58°F ~ +140°F) * Start up above -35°C (-31°F)	-50°C ~ +60°C (-58°F ~ +140°F) * Start up above -35°C (-31°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-40°C ~ +55°C (-40°F ~ +131°F)	-40°C ~ +55°C (-40°F ~ +131°F)
Power	Max. 11W (24V AC) Max. 9.5W (12V DC) Max. 11W (PoE)	TBD (24V DC) TBD (12V AC)	TBD (24V DC) TBD (12V AC)	Max. 8.2W (24V AC) Max. 7W (12V DC) Max. 7.8W (PoE)	Max. 14W (24V AC) Max. 11.5W (12V DC) Max. 12.95W (PoE)
Dimensions (WxHxD) / Weight	Ø 180 x 125mm (7.09" x 4.92") 1.75 kg(3.86lb)	Ø 180 x 125mm (7.09" x 4.92") 1.75 kg(3.86lb)	Ø 180 x 125mm (7.09" x 4.92") 1.75 kg(3.86lb)	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)
Additional Features	Motorized Pan / Tilt / Rotate, Modular design	Modular design	Modular design	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



XNV-6080RS



XNV-L6080



XNV-L6080R



XNV-6022R/6022RM



XNV-6020R

	XNV-6080RS	XNV-L6080	XNV-L6080R	XNV-6022R/6022RM	XNV-6020R
Resolution	2MP	2MP	2MP	2MP	2MP
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	H.265, H.264, MJPEG
Resolution / Frame Rate	2M / 60fps	2M / 60fps	2M / 60fps	2M / 60fps	2M / 60fps
Streaming Capacity	Multiple (Up to 10 Profiles)	Multiple (Up to 5 Profiles)	Multiple (Up to 5 Profiles)	Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)
Max. User Access	20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)
Min. Illumination	Color : 0.015Lux B/W : 0Lux (IR LED on)	Color : 0.1Lux B/W : 0.01Lux	Color : 0.1 Lux, B/W : 0Lux (IR LED on)	Color : 0.04Lux B/W : 0Lux (IR LED on)	Color : 0.015Lux B/W : 0Lux (IR LED on)
Video Output	CVBS 1.0Vpp, Micro USB type B	CVBS 1.0Vpp, Micro USB type B	CVBS 1.0Vpp, Micro USB type B	Micro USB type B	CVBS 1.0Vpp, Micro USB type B
Lens	2.8 ~ 12mm (4.3x) motorized V/F (F1.4)	3.2 ~ 10mm (3.1x) motorized V/F (F1.6)	3.2 ~ 10mm (3.1x) motorized V/F (F1.6)	3.6mm fixed (F2.0)	4mm fixed (F1.4)
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 : 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 : 94.8° / V : 49.3° / D : 114.3°	H : 88.6° / V : 47.5° / D : 104.8°
Focus Control	Simple focus (motorized V/F) / Manual	Simple focus (motorized V/F) / Manual	Simple focus (motorized V/F) / Manual	Manual	Manual
IR Viewable Length	50m (164.04ft)	-	30m (98.43ft)	15m (49.21ft)	30m (98.43ft)
Pan / Tilt / Rotate	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	±5° / 0° ~ 67° / ±90°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°
Day & Night	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)
Backlight Compensation	WDR (150dB)	WDR (120dB)	WDR (120dB)	WDR (150dB)	WDR (150dB)
Digital Noise Reduction	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)
Digital Image Stabilization	Support	Support	Support	Support	Support
Video & Audio Analytics	Tampering, Loitering, Directional detection, Defocus detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Face detection, Digital auto tracking, Sound classification	Tampering, Defocus detection, Motion detection	Tampering, Defocus detection, Motion detection	Tampering, Loitering, Directional detection, Defocus detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Motion detection, Face detection, Digital auto tracking, Sound classification	Tampering, Loitering, Directional detection, Defocus detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Face detection, Digital auto tracking, Sound classification, Heatmap, People counting, Queue management
Protocol	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
Alarm I/O	1 / 1	-	-	-	1 / 1
Audio	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	SD/SDHC/SDXC, NAS, Local PC
Environment Protection	IP66, NEMA 4X, IK10+	IP66, IK10	IP66, IK10	IP66, NEMA 4X, IK10	IP67, IP66, IK10
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)	-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)
Power	Max. 14W (24V AC) Max. 11.5W (12V DC) Max. 12.95W (PoE)	Max. 8W (PoE)	Max. 11W (PoE)	Max. 6.7W (PoE)	Max. 8W (12V DC) Max. 9W (PoE)
Dimensions (WxHxD) / Weight	Ø162 x 120.5mm (Ø6.38" x 4.74") 2.68kg (5.91 lb)	Ø160.0 x 118.5mm (Ø6.30" x 4.67") 935g (2.06 lb)	Ø160.0 x 118.5mm (Ø6.30" x 4.67") 940g (2.07 lb)	98.9 x 52.0 x 100.0mm (3.89" x 2.05" x 3.94") 295g (0.65 lb)	Ø120.0 x 97.5mm (Ø4.72" x 3.84") 615g (1.36 lb)
Additional Features	Handover, WiseStream II, Advanced video analytics, Sound classification (Explosion, Gunshot, Glass breakage, Scream etc), Hallway View, SUS316L	WiseStream II, Lens distortion correction, Defog, Hallway View	WiseStream II, Lens distortion correction, Defog, Hallway View	Handover, WiseStream II, Advanced video analytics, Sound classification (Explosion, Gunshot, Glass breakage, Scream etc), Hallway View M12 Connector(XNV-6022RM)	Handover, WiseStream II, Advanced video analytics, Sound classification (Explosion, Gunshot, Glass breakage, Scream etc), Hallway View



XNV-6013M



XNV-6012M/6012



XNV-6011



XNV-6010



XNP-6550RH

Resolution	2MP	2MP	2MP	2MP	2MP
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" 2.16M CMOS
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 / Frame Rate	2M / 60fps	2M / 60fps	2M / 60fps	2M / 60fps	2M / 60fps
Streaming Capacity	Multiple (Up to 10 Profiles)	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)	20 (Unicast)
Min. Illumination	Color : 0.04Lux B/W : 0.04Lux	Color : 0.04Lux B/W : 0.04Lux	Color : 0.055Lux B/W : 0.055Lux	Color : 0.055Lux B/W : 0.0055Lux	Color : 0.02Lux B/W : 0Lux (IR LED on)
Video Output	Micro USB type B	Micro USB type B	CVBS 1.0Vpp, Micro USB type B	CVBS 1.0Vpp, Micro USB type B	CVBS 1.0Vpp
Lens	2.8mm fixed (F2.0)	2.4mm fixed (F2.0)	2.8mm fixed (F2.0)	2.4mm fixed (F2.0)	4.75mm ~ 261.4mm (IR Corrected Optical 55x) F1.6(Wide) / F6.5(Tele)
Angular Field of View	H : 107.4° / V : 62.2° / D : 122°	H : 135.4° / V : 71.2° / D : 161.6°	H : 112° / V : 62° / D : 130°	H : 139.0° / V : 73.0° / D : 167.0°	H : 58.6°(Wide) ~ 1.23°(Tele) / V : 34.8°(Wide) ~ 0.71°(Tele)
Focus Control	Manual	Manual	Manual	Manual	AF / One-shot AF / Manual
IR Viewable Length	-	-	-	-	500m (1,640ft)
Pan / Tilt / Rotate	±5° / ±10° / ±90°	±5° / 0 ~ 67° / ±90°	0° ~ 353° / 0° ~ 59° / 0° ~ 353°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	360° Endless / 95° (-5° ~ 90°) / -
Day & Night	Auto (Electrical)	Auto (Electrical)	Auto (Electrical)	True (ICR)	True (ICR)
Backlight Compensation	WDR (150dB)	WDR (150dB)	WDR (150dB)	WDR (150dB)	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)	SSNRV (2D+3D Noise filter)
Digital Image Stabilization	Support	Support	Support	Support	Support (Built in Gyro sensor)
Video & Audio Analytics	Tampering, Loitering, Directional detection, Defocus detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Face detection, Digital auto tracking, Sound classification	Tampering, Loitering, Directional detection, Defocus detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Face detection, Digital auto tracking, Sound classification	Tampering, Loitering, Directional detection, Defocus detection, Fog detection, Virtual line, Enter/Exit, (Dis) Appear, Face detection, Motion detection, Digital auto tracking, People counting, Heatmap, Queue management	Tampering, Loitering, Directional detection, Defocus detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Face detection, Digital auto tracking, Sound classification, Heatmap, People counting, Queue management	Tampering, Loitering, Directional detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Face detection, Sound Classification
Protocol	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
Alarm I/O	-	-	-	1 / 1	4 / 2 (Relay)
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	SD/SDHC/SDXC, NAS, Local PC
Environment Protection	IP67, IK10, NEMA4X, IP6K9K	IP66, IK10, NEMA4X	IP66, IK10, NEMA4X	IP67, IP66, NEMA 4X, IK10	IP66, IK10
Operating Temperature	-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)	-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)	-50°C ~ +55°C (-58°F ~ +131°F) (24V AC) -40°C ~ +55°C (-22°F ~ +131°F) * Start up above -30°C (-22°F) (HPoE)
Power	Max. 7.2W (PoE)	Max. 6.5W (PoE)	Max. 6.5W (PoE)	Max. 5.5W (12V DC) Max. 6W (PoE)	Max. 90.0W (24V AC) 60.0W (HPoE)
Dimensions (WxHxD) / Weight	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)	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)	Ø236.9 x 407.7mm (Ø9.33" x 16.05") 7.2kg (15.87 lb)
Additional Features	Handover, WiseStream II, Advanced video analytics, Sound classification, (Explosion, Gunshot, Glass breakage, Scream etc), Hallway View, M12 Connector	Handover, WiseStream II, Advanced video analytics, Sound classification, (Explosion, Gunshot, Glass breakage, Scream etc), Hallway View, M12 Connector (XNV-6012M)	Handover, WiseStream II, Advanced video analytics, Hallway View	Handover, WiseStream II, Advanced video analytics, Sound classification (Explosion, Gunshot, Glass breakage, Scream etc), Hallway View	Defog, WiseStream II, Advanced video analytics, Auto tracking, Optional Defog



XNP-6370RH



XNP-6320H/6320



XNP-6320HS



XNP-6120H



XNP-6040H

	2MP	2MP	2MP	2MP	2MP
Resolution	2MP	2MP	2MP	2MP	2MP
Imaging Device	1/1.9" 2M CMOS	1/2.8" 2.4M CMOS	1/2.8" 2.4M 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	H.265, H.264, MJPEG
Resolution / Frame Rate	2M / 60fps	2M / 60fps	2M / 60fps	2M / 60fps	2M / 60fps
Streaming Capacity	Multiple (Up to 3 Profiles)	Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)
Max. User Access	15 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)
Min. Illumination	Color : 0.05Lux B/W : 0Lux (IR LED on)	Color : 0.05Lux B/W : 0.005Lux	Color : 0.05Lux B/W : 0.005Lux	Color : 0.03Lux B/W : 0.003Lux	Color : 0.015Lux B/W : 0.0015Lux
Video Output	CVBS 1.0Vpp	CVBS 1.0Vpp, Micro USB type B			
Lens	6 ~ 222mm (IR Corrected Optical 37x) F1.5(Wide) / F4.6(Tele)	4.44 ~ 142.6mm(Optical 32x) F1.6 (Wide) / F4.4 (Tele)	4.44 ~ 142.6mm(Optical 32x) F1.6 (Wide) / F4.4 (Tele)	5.2 ~ 62.4mm(Optical 12x) F1.6(Wide) / F3.0(Tele)	2.8 ~ 12mm(Optical 4.3x) (F1.4)
Angular Field of View	H : 59.3°(Wide) ~ 1.9°(Tele) / V : 35.8°(Wide) ~ 1.1°(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 : 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)
Focus Control	AF / One-shot AF / Manual	Auto / Manual / One shot AF			
IR Viewable Length	350m (1,148.29ft)	-	-	-	-
Pan / Tilt / Rotate	360° Endless / 190° (-5° ~ 185°) / -	360° Endless / 210° (-15° ~ 195°)	360° Endless / 210° (-15° ~ 195°)	360° Endless / 190° (-5° ~ 185°)	0° ~ 355° / 0° ~ 90°
Day & Night	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)
Backlight Compensation	WDR (120dB)	WDR (150dB)	WDR (150dB)	WDR (150dB)	WDR (150dB)
Digital Noise Reduction	SSNR (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)
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)
Video & Audio Analytics	Tampering, Crossing, Enter/Exit, (Dis)Appear, Audio detection	Tampering, Loitering, Directional detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Face detection, Motion detection, Sound classification	Tampering, Loitering, Directional detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Face detection, Motion detection, Sound classification	Tampering, Loitering, Directional detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Face detection, Motion detection, 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
Protocol	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
Alarm I/O	4 / 2 (Relay)	4 / 2 (Relay)	4 / 2 (Relay)	1 / 1	1 / 1
Audio	Bi-Directional	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	SD/SDHC/SDXC, NAS, Local PC
Environment Protection	IP66, IK10	IP66, IK10 (XNP-6320H) IK10 (With SHP-3701H)(XNP-6320)	IP67, IP66, NEMA4X, IK10	IP66, IK10	IP66, IK10
Operating Temperature	-50°C ~ +55°C (-58°F ~ +131°F)	-50°C ~ +55°C (-58°F ~ +131°F) (24V AC) -35°C ~ +55°C (-31°F ~ +131°F) (PoE+) * Start up above -30°C (-22°F) (XNP-6320H) -10°C ~ +55°C (+14°F ~ +131°F) (XNP-6320)	-50°C ~ +55°C (-58°F ~ +131°F) (24V AC) * Start up above -40°C (-40°F) -35°C ~ +55°C (-31°F ~ +131°F) (PoE+) * Start up above -25°C (-13°F)	-30°C ~ +55°C (-22°F ~ +131°F)	-30°C ~ +55°C (-22°F ~ +131°F)
Power	Max. 60.0W / 90.0W - Heater off / on, IR on (24V AC)	Max. 24.0W - Heater off (24V AC, PoE+) Max. 65.0W - Heater on (24V AC) (XNP-6320H) Max. 20.0W(24V AC, PoE+)(XNP-6320)	Max. 24.0W - Heater off (24V AC, PoE+) Max. 65.0W - Heater on (24V AC)	Max. 12W (12V DC, PoE)	Max. 8.6W (12V DC) Max. 9.6W (PoE)
Dimensions (WxHxD) / Weight	Ø236.9 x 407.7mm (Ø9.33" x 16.05") 7.1Kg (15.65 lb)	Ø223.4 x 293.6mm(Ø8.8" x 11.56") 3.3Kg (7.28 lb)(XNP-6320H) Ø152.0 x 218.0mm(Ø5.98" x 8.58") 1.7Kg (3.75 lb)(XNP-6320)	Ø227 x 295.5mm (Ø8.94" x 11.63") 5.3Kg (11.68 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") 0.78kg (1.72 lb)
Additional Features	Defog, WiseStream, Auto tracking	WiseStream II, Advanced video analytics, Auto Tracking	WiseStream II, Advanced video analytics, Auto Tracking, SUS316L	WiseStream II, Advanced video analytics, Auto Tracking	WiseStream II, Advanced video analytics, Auto Tracking

WISENET P series



Premium cameras with the most advanced technology

Wisenet P series, the ultimate premium cameras are designed with the most advanced technology, delivering users an outstanding video surveillance solution. From bullet cameras to multi-sensor cameras, P series have a wide range of products optimized for applications which require extreme detail and wide area coverage.



Exceptional image quality of 4K Ultra HD

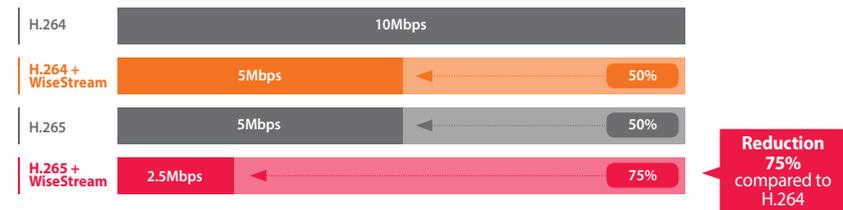
The Wisenet P series provides an enhanced surveillance system by producing superior 4K Ultra HD image quality. 4K Ultra HD has four times the resolution of standard 1080p, which means it is able to show more detail.



PNO/PND/PNV-9080R, PNP-9200RH

Improved Bandwidth with WiseStream technology

Wisenet P series 4K camera's streaming performance is greatly enhanced by applying an advanced compression technology called WiseStream. WiseStream can reduce bandwidth by 50% by using dynamic technology, and when combined with high efficiency video coding (H.265), the bandwidth efficiency can be improved by up to 75% compared to current H.264 technology.



WISENET P series

Cover wide areas with multi-sensor cameras

Wisenet P series multi-sensor cameras are equipped with multiple sensors, which means that it can effectively monitor wide areas with just one camera. By installing Wisenet multi-sensor cameras, the cost of system installation and maintenance is reduced while successfully monitoring wide areas.

Multiple view modes

Choose from a variety of viewing options that fit your needs by using the broad line-up of Wisenet multi-sensor cameras.

Multi-directional Camera



PNM-9081VQ, PNM-9080VQ,
PNM-9000VQ, PNM-7000VD

Multi-directional Camera with PTZ



PNM-930VQP

Panoramic Camera



PNM-9030V, PNM-9020V

Selectable and changeable multiple lens

(PNM-7000VD/9000VQ/9320VQP only)

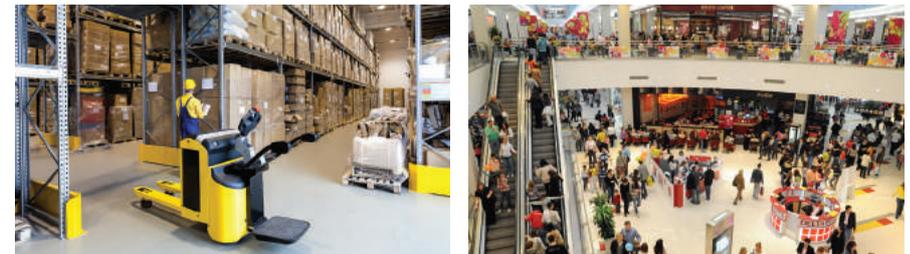
Choose a wide variety of lenses from 2MP 2.4mm to 5M 7.0mm for each sensors in PNM-7000VD / 9000VQ / 9320VQP. Due to the wide variety of lens selection, users can create the most optimal field of view for their desired monitoring areas.



※The applicable lens differs for each camera.

Optimized for indoor and outdoor environments

Wisenet P series panoramic and multi-directional cameras are suitable to monitor even the smallest details in a wide area. They are ideal for applications such as warehouse, shopping mall entrances, train stations, parking lots, and more supporting IP66, IK10.



- Warehouse
- Square
- Mall entrance
- Distribution center
- City Surveillance
- Crossroads
- Airport
- Train station
- Parking lot
- Stadium



PNO-9080R



PND-9080R



PNV-9080R



PNM-9081VQ



PNM-9080VQ

	PNO-9080R	PND-9080R	PNV-9080R	PNM-9081VQ	PNM-9080VQ
Resolution	12MP	12MP	12MP	20MP (5M x 4ea)	8MP (2M x 4ea)
Imaging Device	1/1.7" 12.4M CMOS	1/1.7" 12.4M CMOS	1/1.7" 12.4M CMOS	1/1.8" 6M CMOS x 4	1/2.8" 2.38M CMOS x 4
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 / Frame Rate	12M / 20fps, 8M / 30fps	12M / 20fps, 8M / 30fps	12M / 20fps, 8M / 30fps	5M / 30fps	2M / 60fps
Streaming Capacity	Multiple (Up to 3 Profiles)	Multiple (Up to 3 Profiles)	Multiple (Up to 3 Profiles)	Multiple (Up to 40 Profiles)	Multiple (Up to 40 Profiles)
Max. User Access	15 (Unicast)	15 (Unicast)	15 (Unicast)	20 (Unicast)	20 (Unicast)
Min. Illumination	Color : 0.3Lux B/W : 0Lux (IR LED on)	Color : 0.3Lux B/W : 0Lux (IR LED on)	Color : 0.3Lux B/W : 0Lux (IR LED on)	Color : 0.07Lux B/W : 0.007Lux	Color : 0.015Lux B/W : 0.0015Lux
Video Output	CVBS 1.0Vpp, DIP Connector Type	CVBS 1.0Vpp, DIP Connector Type	CVBS 1.0Vpp, DIP Connector Type	CVBS 1.0Vpp (selectable CVBS per channel)	CVBS 1.0Vpp (selectable CVBS per channel)
Lens	4.5 ~ 10mm (2.2x) motorized V/F (F1.6)	4.5 ~ 10mm (2.2x) motorized V/F (F1.6)	4.5 ~ 10mm (2.2x) motorized V/F (F1.6)	3.6 ~ 9.4mm (2.6x) motorized V/F (F1.2)	2.8 ~ 12mm (4.3x) motorized V/F F1.4(Wide) / F3.6(Tele)
Angular Field of View	[4096 x 2160] H : 100.3°(Wide) ~ 45.6°(Tele) / V : 49.7°(Wide) ~ 24.0°(Tele) [3840 x 2160] H : 92.3°(Wide) ~ 42.6°(Tele) / V : 49.7°(Wide) ~ 24.0°(Tele)	[4096 x 2160] H : 100.3°(Wide) ~ 45.6°(Tele) / V : 49.7°(Wide) ~ 24.0°(Tele) [3840 x 2160] H : 92.3°(Wide) ~ 42.6°(Tele) / V : 49.7°(Wide) ~ 24.0°(Tele)	[4096 x 2160] H : 100.3°(Wide) ~ 45.6°(Tele) / V : 49.7°(Wide) ~ 24.0°(Tele) [3840 x 2160] H : 92.3°(Wide) ~ 42.6°(Tele) / V : 49.7°(Wide) ~ 24.0°(Tele)	H : 102.5°(Wide) ~ 38.7°(Tele) / V : 74.2°(Wide) ~ 29.0°(Tele) / D : 135.5°(Wide) ~ 48.6°(Tele)	H : 119.5°(Wide) ~ 27.9°(Tele) / V : 62.8°(Wide) ~ 15.7°(Tele) / D : 142.1°(Wide) ~ 32.0°(Tele)
Focus Control	Simple focus (motorized V/F) / Manual	Simple focus (motorized V/F) / Manual	Simple focus (motorized V/F) / Manual	Simple focus (motorized V/F) / Manual	Simple focus (motorized V/F) / Manual
IR Viewable Length	40m (131.23ft)	30m (98.43ft)	40m (131.23ft)	-	-
Pan / Tilt / Rotate	-	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	Quad mode : ±30° / 10° ~ 41° / ±90°, Center mode : ±60° / 10° ~ 41°, 10° ~ 90° (CH2/Center) / ±90°	Quad mode : ±30° / 10° ~ 41° / ±90°, Center mode : ±60° / 10° ~ 41°, 10° ~ 90° (CH2/Center) / ±90°
Day & Night	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)
Backlight Compensation	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (150dB)
Digital Noise Reduction	SSNR	SSNR	SSNR	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)
Digital Image Stabilization	-	-	-	Support (Built in Gyro sensor)	Support (Built in Gyro sensor)
Video & Audio Analytics	Tampering (Scene change), Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Defocus detection, Digital Auto tracking with Metadata	Tampering (Scene change), Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Defocus detection, Digital Auto tracking with Metadata	Tampering (Scene change), Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Defocus detection, Digital Auto tracking with Metadata	Tampering, Loitering, Directional detection, Defocus detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Motion detection	Tampering, Loitering, Directional detection, Defocus detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Motion detection
Protocol	ONVIF profile S/G, SUNAPI	ONVIF profile S/G, SUNAPI	ONVIF profile S/G, SUNAPI	ONVIF profile S, SUNAPI	ONVIF profile S, SUNAPI
Alarm I/O	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
Audio	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, Local PC	SD/SDHC/SDXC, Local PC
Environment Protection	IP66, IK10	IK08	IP66, IP67, IK10	IP66, IK10	IP66, IK10
Operating Temperature	-40°C ~ +55°C (-40°F ~ +131°F) * Start up above -35°C (-31°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -10°C (14°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)
Power	Max. 12.43W / 14.08W - Heater on (24V AC) Max. 10.45W / 11.55W - Heater on (12V DC) Max. 11.77W / 12.95W - Heater on (PoE)	Max. 9.5W (12V DC) Max. 10.5W (PoE)	Max. 12.43W / 14.08W - Heater on (24V AC) Max. 10.45W / 11.55W - Heater on (12V DC) Max. 11.77W / 12.95W - Heater on (PoE)	Max. 28.8W (12V DC) Max. 33.6W (HPoE)	Max. 21.6W (12V DC) Max. 25.5W (PoE+)
Dimensions (WxHxD) / Weight	82.4 x 87.0 x 348.3mm (3.24" x 3.43" x 13.71") (Without Sunshield), 1.4Kg (3.09 lb)	Ø140.8 x 113.0mm (Ø5.54" x 4.45") 610g (1.34 lb)	Ø160.0 x 118.5mm (Ø6.3" x 4.67") 990g (2.18 lb)	Ø314 x 152mm (Ø12.36" x 5.98") 4.89kg (10.78 lb)	Ø314 x 152mm (Ø12.36" x 5.98") 4.83kg (10.65 lb)
Additional Features	Handover, Hallway View, P-Iris, Defog, WiseStream	Handover, Hallway View, P-Iris, Defog, WiseStream	Handover, Hallway View, P-Iris, Defog, WiseStream	Multi directional camera, Hallway View, P-Iris, Defog, WiseStream II	Multi directional camera, Hallway View, P-Iris, Defog, WiseStream II



PNM-9030V



PNM-9020V



PNF-9010R/9010RV/9010RVM



PNP-9200RH

	PNM-9030V	PNM-9020V	PNF-9010R/9010RV/9010RVM	PNP-9200RH
Resolution	20M (5M x 4ea)	7.3MP (2M x 4ea)	12MP	8MP
Imaging Device	20M (5M x 4ea)	7.3M (2M x 4)	1/1.7" 12.4M CMOS	1/2.5" 8M 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	15.5M / 30fps (H.265, H.264)	7.3M / 30fps (H.265, H.264)	12M / 20fps, 9M / 25fps	8M / 30fps
Streaming Capacity	Multiple (Up to 5 or 3 profiles for each CH)	Multiple (Up to 3 Profiles)	Multiple (Up to 3 Profiles)	Multiple (Up to 3 Profiles)
Max. User Access	15 (Unicast)	15 (Unicast)	15 (Unicast)	15 (Unicast)
Min. Illumination	Color : 0.15Lux B/W : 0.01Lux	Color : 0.3Lux B/W : 0.03Lux	Color : 0.3Lux B/W : 0Lux (IR LED on)	Color : 0.1Lux B/W : 0Lux (IR LED on)
Video Output	Micro USB type B	-	CVBS 1.0Vpp, DIP Connector Type	CVBS 1.0Vpp
Lens	4.0mm fixed (F2.0)	3.6mm fixed (F2.0)	2.1mm fixed (F2.2)	4.8 ~ 96mm (Optical 20x) F1.8(Wide) / F3.6(Tele)
Angular Field of View	[Total 4 Sensor] 180° mode - H: 180° / V: 70° 220° mode - H: 220° / V: 52°	[Total 4 Sensor] H: 180° / V: 84°	H: 180.0° / V: 180.0° / D: 180.0°	H: 65.1°(Wide) ~ 3.8°(Tele) / V: 38.4°(Wide) ~ 2.2°(Tele)
Focus Control	Fixed	-	Simple focus	AF / One-shot AF
IR Viewable Length	-	-	15m (49.21ft)	200m (656.17ft)
Pan / Tilt / Rotate	0° ~ 355° / 0° ~ 60° / -	0° ~ 355° / 0° ~ 60° / -	-	360° Endless / 190° (-5° ~ 185°) / -
Day & Night	True (ICR)	True (ICR)	True (ICR)	True (ICR)
Backlight Compensation	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)
Digital Noise Reduction	SSNRIII (2D+3D Noise filter)	SSNRIII (2D+3D Noise filter)	SSNR	SSNR
Digital Image Stabilization	-	-	-	Support
Video & Audio Analytics	Tampering, Loitering, Directional detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Heatmap, Sound classification	Tampering, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Defocus detection, Digital Auto tracking, Heatmap	Tampering, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Defocus detection	Tampering, Virtual line, Enter/Exit, (Dis)Appear, Audio detection with Metadata
Protocol	ONVIF Profile S/G, SUNAPI	ONVIF profile S/G, SUNAPI	ONVIF profile S/G, SUNAPI	ONVIF profile S/G, SUNAPI
Alarm I/O	1 / 1	1 / 1	1 / 1	4 / 2 (Relay)
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	IP66, IK10	IP66, IK10	IK10 (PNF-9010R), IP66, IK10 (PNF-9010RV/9010RVM)	IP66, IK10
Operating Temperature	-40°C ~ +55°C (-40°F ~ +131°F)	-40°C ~ +55°C (-40°F ~ +131°F) * Start up above -35°C (-31°F)	-10°C ~ +55°C (+14°F ~ +131°F)(PNF-9010R) -40°C ~ +55°C (-40°F ~ +131°F) * Start up above -35°C (-31°F) (PNF-9010RV/9010RVM)	-50°C ~ +55°C (-58°F ~ +131°F)
Power	Max 21.0W (12V DC) Max 25.5W (PoE+)	Max. 21.0W - Heater on (12V DC) Max. 25.5W - Heater on (PoE+)	Max. 11W (12V DC) Max. 12W (PoE)(PNF-9010R) Max. 12W (12V DC) Max. 12.95W (PoE)(PNF-9010RV/RVM)	Max. 60.0W / 90.0W - Heater off / on, IR on (24V AC)
Dimensions (WxHxD) / Weight	Ø253 x 165mm (9.96" x 6.5") 3.2Kg (7.1lb)	Ø199.0 x 143.5mm (Ø7.83" x 5.65") 2.03Kg (4.51 lb)	Ø146.0 x 63.4mm (Ø5.75" x 2.50") 805g (1.77 lb) (PNF-9010R), 810g (1.79 lb) (PNF-9010RV), 815g (1.8 lb) (PNF-9010RVM)	Ø236.9 x 407.7mm (Ø9.33" x 16.05") 7.1Kg (15.65 lb)
Additional Features	Handover, Multi sensor camera, Defog, WiseStream II	Handover, Multi sensor camera, Defog, WiseStream	M12 Connector (PNF-9010RVM), Built-in mic, On Board Dewarping, Handover, WiseStream, Heatmap, People counting	Handover, Auto tracking, Defog, WiseStream



PNM-9320VQP



SLA-5M7000P



SLA-5M4600P



SLA-5M3700P

	PNM-9320VQP	SLA-5M7000P	SLA-5M4600P	SLA-5M3700P
Resolution	Max. 22MP (2MP 32x PTZ+ 2M/5M x 4ea)	5MP	5MP	5MP
Imaging Device	1/2.8" 2.4M CMOS (PTZ)	1 / 1.8" 5M CMOS	1 / 1.8" 5M CMOS	1 / 1.8" 5M CMOS
Video Compression	H.265, H.264, MJPEG	-	-	-
Resolution / Frame Rate	5M / 30fps, 2M / 60fps	-	-	-
Streaming Capacity	Multiple (Up to 10 Profiles)	-	-	-
Max. User Access	20 (Unicast)	-	-	-
Min. Illumination	Color : 0.05Lux, BW : 0.005Lux (PTZ)	Color : 0.16Lux, B/W : 0.16Lux	Color : 0.16Lux, B/W : 0.16Lux	Color : 0.16Lux, B/W : 0.16Lux
Video Output	CVBS 1.0Vpp (Multi)	-	-	-
Lens	4.44 ~ 142.6mm (Optical 32x) F1.6 (Wide) / F4.4 (Tele) (PTZ)	7.0mm fixed (F1.6)	4.6mm fixed (F1.6)	3.7mm fixed (F1.6)
Angular Field of View	H : 61.8°(Wide)~2.19°(Tele) / V : 36.2°(Wide)~1.24°(Tele) (PTZ)	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°
Focus Control	Auto / Manual / One shot AF (PTZ)	Fixed	Fixed	Fixed
IR Viewable Length	-	-	-	-
Pan / Tilt / Rotate	360° Endless / 190°(-5°~185°) (PTZ)	±90° / +12°~+93° / ±180°	±90° / +21°~+85° / ±180°	±90° / +36°~+73° / ±180°
Day & Night	Electrical (Multi), True ICR (PTZ)	Electrical	Electrical	Electrical
Backlight Compensation	WDR 150dB (2MP), 120dB (5MP)	WDR (120dB)	WDR (120dB)	WDR (120dB)
Digital Noise Reduction	SSNRV (2D+3D Noise filter)	-	-	-
Digital Image Stabilization	Support (Built in gyro sensor - PTZ)	-	-	-
Video & Audio Analytics	Tampering, Loitering, Directional detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Motion detection, Face detection, Defocus detection (Multi)	-	-	-
Protocol	ONVIF Profile S, SUNAPI	-	-	-
Alarm I/O	1 / 2	-	-	-
Audio	-	-	-	-
Edge Storage	SD/SDHC/SDXC, Local PC	-	-	-
Environment Protection	IP66, IK10	-	-	-
Operating Temperature	-35°C ~ +55°C (-31°F ~ +131°F)	-	-	-
Power	Max. 65W (HPoE)	-	-	-
Dimensions (WxHxD) / Weight	Ø 367.8 x 381.5mm (Ø 144.49" x 150.20") 7.05 kg (16.1 lb)	Ø35.5 x 35.9 mm (Ø 1.39" x 1.41") 35g (0.08 lb)	Ø35.5 x 35.9 mm (Ø 1.39" x 1.41") 35g (0.08 lb)	Ø35.5 x 35.9 mm (Ø 1.39" x 1.41") 35g (0.08 lb)
Additional Features	Multi-directional camera with PTZ, Defog, WiseStream II Hallway View, Auto tracking	Lens module for PNM-9320VQP	Lens module for PNM-9320VQP	Lens module for PNM-9320VQP



SLA-2M6000P



SLA-2M3600P



SLA-2M2800P



SLA-2M2400P



SLA-2M1200P

	SLA-2M6000P	SLA-2M3600P	SLA-2M2800P	SLA-2M2400P	SLA-2M1200P
Resolution	2MP	2MP	2MP	2MP	2MP
Imaging Device	1 / 2.8" 2M CMOS				
Video Compression	-	-	-	-	-
Resolution / Frame Rate	-	-	-	-	-
Streaming Capacity	-	-	-	-	-
Max. User Access	-	-	-	-	-
Min. Illumination	Color : 0.055Lux, B/W : 0.055Lux				
Video Output	-	-	-	-	-
Lens	6.0mm fixed (F2.0)	3.6mm fixed (F2.0)	2.8mm fixed (F2.0)	2.4mm fixed (F2.0)	12mm fixed (F2.0)
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°	H:26.3° / V:14.9° / D:30.0°
Focus Control	Fixed	Fixed	Fixed	Fixed	Fixed
IR Viewable Length	-	-	-	-	-
Pan / Tilt / Rotate	±90° / +10°~+95° / ±180°	±90° / +22°~+84° / ±180°	±90° / +26°~+80° / ±180°	±90° / +52°~+56° / ±180°	±90° / +10°~+97° / ±180°
Day & Night	Electrical	Electrical	Electrical	Electrical	Electrical
Backlight Compensation	WDR (150dB)				
Digital Noise Reduction	-	-	-	-	-
Digital Image Stabilization	-	-	-	-	-
Video & Audio Analytics	-	-	-	-	-
Protocol	-	-	-	-	-
Alarm I/O	-	-	-	-	-
Audio	-	-	-	-	-
Edge Storage	-	-	-	-	-
Environment Protection	-	-	-	-	-
Operating Temperature	-	-	-	-	-
Power	-	-	-	-	-
Dimensions (WxHxD) / Weight	Ø35.5 x 35.9 mm (Ø 1.39" x 1.41") 30g (0.07 lb)	Ø35.5 x 35.9 mm (Ø 1.39" x 1.41") 30g (0.07 lb)	Ø35.5 x 35.9 mm (Ø 1.39" x 1.41") 30g (0.07 lb)	Ø35.5 x 35.9 mm (Ø 1.39" x 1.41") 30g (0.07 lb)	Ø35.5 x 35.9 mm (Ø 1.39" x 1.41") 30g (0.07 lb)
Additional Features	Lens module for PNM-9320VQP				



PNM-9000VQ



SLA-5M7000Q



SLA-5M4600Q



SLA-5M3700Q

	PNM-9000VQ	SLA-5M7000Q	SLA-5M4600Q	SLA-5M3700Q
Resolution	Max. 20MP (2M/5M x 4ea)	5MP	5MP	5MP
Imaging Device	-	1/1.8" 5M CMOS	1/1.8" 5M CMOS	1/1.8" 5M CMOS
Video Compression	H.265, H.264, MJPEG	-	-	-
Resolution / Frame Rate	5M / 30fps, 2M / 60fps	-	-	-
Streaming Capacity	Multiple (Up to 10 Profiles)	-	-	-
Max. User Access	20 (Unicast)	-	-	-
Min. Illumination	-	Color : 0.16Lux, B/W : 0.16Lux	Color : 0.16Lux, B/W : 0.16Lux	Color : 0.16Lux, B/W : 0.16Lux
Video Output	CVBS 1.0Vpp	-	-	-
Lens	-	7.0mm fixed (F1.6)	4.6mm fixed (F1.6)	3.7mm fixed (F1.6)
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°
Focus Control	-	Fixed	Fixed	Fixed
IR Viewable Length	-	-	-	-
Pan / Tilt / Rotate	-	±90° / 40°~89° / ±180°	±90° / 50°~80° / ±180°	±90° / 59°~66° / ±180°
Day & Night	Electrical	Electrical	Electrical	Electrical
Backlight Compensation	WDR 150dB(2MP), 120dB(5MP)	WDR (120dB)	WDR (120dB)	WDR (120dB)
Digital Noise Reduction	SSNRV (2D+3D Noise filter)	-	-	-
Digital Image Stabilization	Support	-	-	-
Video & Audio Analytics	Tampering, Loitering, Directional detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Motion detection, Face detection, Defocus detection	-	-	-
Protocol	ONVIF Profile S, SUNAPI	-	-	-
Alarm I/O	-	-	-	-
Audio	-	-	-	-
Edge Storage	SD/SDHC/SDXC, Local PC	-	-	-
Environment Protection	IP66, IK10	-	-	-
Operating Temperature	-40°C ~ +55°C (-40°F ~ +131°F)	-	-	-
Power	25.5W (PoE+)	-	-	-
Dimensions (WxHxD) / Weight	Ø253x130mm (Ø9.96" x 5.11") 3.0 kg (6.7 lb)	Ø 35.5 x 35.9 mm (Ø 1.39" x 1.41") 35g (0.08 lb)	Ø 35.5 x 35.9 mm (Ø 1.39" x 1.41") 35g (0.08 lb)	Ø 35.5 x 35.9 mm (Ø 1.39" x 1.41") 35g (0.08 lb)
Additional Features	Multi-directional camera, Defog, WiseStream II Hallway View	Lens module for PNM-9000VQ	Lens module for PNM-9000VQ	Lens module for PNM-9000VQ



SLA-2M6000Q



SLA-2M3600Q



SLA-2M2800Q



SLA-2M2400Q

	SLA-2M6000Q	SLA-2M3600Q	SLA-2M2800Q	SLA-2M2400Q
Resolution	2MP	2MP	2MP	2MP
Imaging Device	1/2.8" 2M CMOS	1/2.8" 2M CMOS	1/2.8" 2M CMOS	1/2.8" 2M CMOS
Video Compression	-	-	-	-
Resolution / Frame Rate	-	-	-	-
Streaming Capacity	-	-	-	-
Max. User Access	-	-	-	-
Min. Illumination	Color : 0.055Lux, B/W : 0.055Lux			
Video Output	-	-	-	-
Lens	6.0mm fixed (F2.0)	3.6mm fixed (F2.0)	2.8mm fixed (F2.0)	2.4mm fixed (F2.0)
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°
Focus Control	Fixed	Fixed	Fixed	Fixed
IR Viewable Length	-	-	-	-
Pan / Tilt / Rotate	±90° / 30°~89° / ±180°	±90° / 37°~89° / ±180°	±90° / 40°~89° / ±180°	±90° / 62° / ±180°
Day & Night	Electrical	Electrical	Electrical	Electrical
Backlight Compensation	WDR (150dB)	WDR (150dB)	WDR (150dB)	WDR (150dB)
Digital Noise Reduction	-	-	-	-
Digital Image Stabilization	-	-	-	-
Video & Audio Analytics	-	-	-	-
Protocol	-	-	-	-
Alarm I/O	-	-	-	-
Audio	-	-	-	-
Edge Storage	-	-	-	-
Environment Protection	-	-	-	-
Operating Temperature	-	-	-	-
Power	-	-	-	-
Dimensions (WxHxD) / Weight	Ø 35.5 x 35.9 mm (Ø 1.39" x 1.41") 35g (0.08 lb)	Ø 35.5 x 35.9 mm (Ø 1.39" x 1.41") 35g (0.08 lb)	Ø 35.5 x 35.9 mm (Ø 1.39" x 1.41") 35g (0.08 lb)	Ø 35.5 x 35.9 mm (Ø 1.39" x 1.41") 35g (0.08 lb)
Additional Features	Lens module for PNM-9000VQ			



PNM-7000VD



SLA-2M6000D



SLA-2M3600D



SLA-2M2800D



SLA-2M2400D

	PNM-7000VD	SLA-2M6000D	SLA-2M3600D	SLA-2M2800D	SLA-2M2400D
Resolution	4MP (2M x 2ea)	2MP	2MP	2MP	2MP
Imaging Device	-	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	-	-	-	-
Resolution / Frame Rate	2ea x 2M / 60fps	-	-	-	-
Streaming Capacity	Multiple (Up to 10 Profiles)	-	-	-	-
Max. User Access	20 (Unicast)	-	-	-	-
Min. Illumination	-	Color : 0.055Lux B/W : 0.055Lux			
Video Output	CVBS 1.0Vpp	-	-	-	-
Lens	-	6.0mm fixed (F2.0)	3.6mm fixed (F2.0)	2.8mm fixed (F2.0)	2.4mm fixed (F2.0)
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°
Focus Control	-	Fixed	Fixed	Fixed	Fixed
IR Viewable Length	-	-	-	-	-
Pan / Tilt / Rotate	-	±176° / 0° ~ 65° / ±90°	±176° / 0° ~ 54° / ±90°	±176° / 0° ~ 50° / ±90°	±176° / 0° ~ 30° / ±90°
Day & Night	Electrical	Electrical	Electrical	Electrical	Electrical
Backlight Compensation	WDR (150dB)	WDR (150dB)	WDR (150dB)	WDR (150dB)	WDR (150dB)
Digital Noise Reduction	SSNRV (2D+3D Noise filter)	-	-	-	-
Digital Image Stabilization	Support	-	-	-	-
Video & Audio Analytics	Tampering, Loitering, Directional detection, Fog detection, Virtual line, Enter/Exit, (Dis)Appear, Motion detection, Face detection	-	-	-	-
Protocol	ONVIF profile S, SUNAPI	-	-	-	-
Alarm I/O	-	-	-	-	-
Audio	-	-	-	-	-
Edge Storage	SD/SDHC/SDXC, Local PC	-	-	-	-
Environment Protection	IP66, IK10	-	-	-	-
Operating Temperature	-40°C ~ +55°C (-40°F ~ +131°F)	-	-	-	-
Power	Max.12.95W (PoE)	-	-	-	-
Dimensions (WxHxD) / Weight	Ø161.0 x 73.0mm (Ø6.34" x 2.87") 840g (1.85 lb)	Ø35.5 x 27.9mm (1.4" x 1.1") 27g (0.06 lb)	Ø35.5 x 27.9mm (1.4" x 1.1") 27g (0.06 lb)	Ø35.5 x 27.9mm (1.4" x 1.1") 27g (0.06 lb)	Ø35.5 x 27.9mm (1.4" x 1.1") 27g (0.06 lb)
Additional Features	Multi-directional camera, Defog, WiseStream II Hallway View	Lens module for PNM-7000VD			

WISENET Q series



Compact cameras with essential qualities

This affordable product line delivers professional quality, ideal for securing small to medium sized applications. The Q series has the ability to create a secure environment with its complete lineup, saving both installation costs and time.



Complete line-up of indoor and outdoor cameras

Wisenet Q series offers a wide range of indoor and outdoor Bullet / Dome / Vandal / Flat eye / PTZ cameras which covers multiple applications such as retail, banking, offices, transportation and more, while delivering sharp and clear image quality.

	BULLET		DOME		IR VANDAL		FLAT EYE	PTZ
	Fixed IR	V/F IR	Fixed IR	V/F IR	Fixed IR	V/F IR		
4MP	 QNO-7010R QNO-7020R QNO-7030R		 QND-7010R QND-7020R QND-7030R		 QNV-7010R QNV-7020R QNV-7030R		 QNE-7080RV QNE-7080RW	
2MP	 QNO-6010R QNO-6020R QNO-6030R	 QNO-6070R QNO-6080R	 QND-6010R QND-6020R QND-6030R	 QND-6070R QND-6080R	 QNV-6010R QNV-6020R QNV-6030R	 QNV-6070R QNV-6080R	 QNE-6080RV QNE-6080RW	 QNP-6230H QNP-6230

Perfect for small to medium sized applications

The complete line-up of Wisenet Q series has the ability to solve small to medium sized application challenges. Save both installation costs and time by using the Wisenet Q series together with NVRs to create a suitable solution for small to medium sized applications.





QNO-7080R



QNO-7010R/7020R/7030R



QND-7080R



QND-7010R/7020R/7030R

	4MP	4MP	4MP	4MP
Resolution	4MP	4MP	4MP	4MP
Imaging Device	1/3" 4M CMOS	1/3" 4M CMOS	1/3" 4M CMOS	1/3" 4M 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	4M / 20fps, 2M / 30fps	4M / 20fps, 2M / 30fps	4M / 20fps, 2M / 30fps	4M / 20fps, 2M / 30fps
Streaming Capacity	Multiple (Up to 3 Profiles)	Multiple (Up to 3 Profiles)	Multiple (Up to 3 Profiles)	Multiple (Up to 3 Profiles)
Max. User Access	6 (Unicast)	6 (Unicast)	6 (Unicast)	6 (Unicast)
Min. Illumination	Color : 0.15Lux B/W : 0Lux (IR LED on)	Color : 0.5Lux (QNO-7010R), 0.4Lux (QNO-7020R), 0.3Lux (QNO-7030R) B/W : 0Lux (IR LED on)	Color : 0.15Lux B/W : 0Lux (IR LED on)	Color : 0.5Lux (QND-7010R), 0.4Lux (QND-7020R), 0.3Lux (QND-7030R) B/W : 0Lux (IR LED on)
Lens	2.8 ~ 12mm (4.3x) motorized V/F (F1.4)	2.8mm fixed (F2.2) (QNO-7010R) 3.6mm fixed (F2.2) (QNO-7020R) 6.0mm fixed (F2.2) (QNO-7030R)	2.8 ~ 12mm (4.3x) motorized V/F (F1.4)	2.8mm fixed (F2.2) (QND-7010R) 3.6mm fixed (F2.2) (QND-7020R) 6.0mm fixed (F2.2) (QND-7030R)
Angular Field of View	H : 109.7°(Wide) ~ 26.0°(Tele) / V : 60.8°(Wide) ~ 15.2°(Tele) / D : 131.3°(Wide) ~ 30.1°(Tele)	H : 111.0° / V : 63.0° / D : 128.0° (QNO-7010R) H : 81.0° / V : 45.0° / D : 95.0° (QNO-7020R) H : 53.0° / V : 31.0° / D : 62.0° (QNO-7030R)	H : 109.7°(Wide) ~ 26.0°(Tele) / V : 60.8°(Wide) ~ 15.2°(Tele) / D : 131.3°(Wide) ~ 30.1°(Tele)	H : 111.0° / V : 63.0° / D : 128.0° (QND-7010R) H : 81.0° / V : 45.0° / D : 95.0° (QND-7020R) H : 53.0° / V : 31.0° / D : 62.0° (QND-7030R)
Focus Control	Simple focus (motorized V/F) / Manual	-	Simple focus (motorized V/F) / Manual	-
IR Viewable Length	30m (98.43ft)	20m (65.62ft) (QNO-7010R), 25m (82.02ft) (QNO-7020R), 30m (98.43ft) (QNO-7030R)	20m (65.62ft)	20m (65.62ft)
Pan / Tilt / Rotate	-	-	0° ~ 350° / 0° ~ 67° / 0° ~ 355°	0° ~ 350° / 0° ~ 67° / 0° ~ 355°
Day & Night	True (ICR)	True (ICR)	True (ICR)	True (ICR)
Backlight Compensation	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)
Digital Noise Reduction	SSNR	SSNR	SSNR	SSNR
Digital Image Stabilization	-	-	-	-
Video & Audio Analytics	Motion detection with metadata, Tampering, Defocus detection	Motion detection with metadata, Tampering, Defocus detection	Motion detection with metadata, Tampering, Defocus detection	Motion detection with metadata, Tampering, Defocus detection
Protocol	ONVIF profile S/G, SUNAPI	ONVIF profile S/G, SUNAPI	ONVIF profile S/G, SUNAPI	ONVIF profile S/G, SUNAPI
Alarm I/O	1 / 1	1 / 1	1 / 1	1 / 1
Audio	Uni-Directional	Uni-Directional	Uni-Directional	Uni-Directional
Edge Storage	Micro SD/SDHC/SDXC, NAS	Micro SD/SDHC/SDXC, NAS	Micro SD/SDHC/SDXC, NAS	Micro SD/SDHC/SDXC, NAS
Environment Protection	IP66, IK10	IP66, IK10	-	IK08
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)
Power	Max. 7.0W (12V DC) Max. 8.0W (PoE)	Max. 6.0W (12V DC) Max. 7.0W (PoE)	Max. 6.4W (12V DC) Max. 7.2W (PoE)	Max. 5.8W (12V DC) Max. 7.0W (PoE) (QND-7010R) Max. 5.43W (12V DC) Max. 6.5W (PoE) (QND-7020R/7030R)
Dimensions (WxHxD) / Weight	Ø70.0 x 246.0mm (Ø2.76" x 9.69") (Without Sunshield) 750g (1.65 lb)	Ø70.0 x 246.0mm (Ø2.76" x 9.69") (Without Sunshield) 730g (1.61 lb)	Ø119.8 x 98.8mm (Ø4.72" x 3.89") 355g (0.78 lb)	Ø110.0 x 86.0mm (Ø4.33" x 3.39") 290g (0.64 lb)
Additional Features	Lens distortion correction, Hallway View, WiseStream	Lens distortion correction, Hallway View, WiseStream	Lens distortion correction, Hallway View, WiseStream	Lens distortion correction, Hallway View, WiseStream



QNV-7080R



QNV-7010R/7020R/7030R



QNE-7080RV/7080RVW



QNO-6070R

	4MP	4MP	4MP	2MP
Resolution	4MP	4MP	4MP	2MP
Imaging Device	1/3" 4M CMOS	1/3" 4M CMOS	1 / 3" 4M CMOS	1/2.9" 2.19M 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	4M / 20fps, 2M / 30fps	4M / 20fps, 2M / 30fps	4M / 20fps, 2M / 30fps	2M / 30fps
Streaming Capacity	Multiple (Up to 3 Profiles)	Multiple (Up to 3 Profiles)	Multiple (Up to 3 Profiles)	Multiple (Up to 3 Profiles)
Max. User Access	6 (Unicast)	6 (Unicast)	6 (Unicast)	6 (Unicast)
Min. Illumination	Color : 0.15Lux B/W : 0Lux (IR LED on)	Color : 0.5Lux (QNV-7010R), 0.4Lux (QNV-7020R), 0.3Lux (QNV-7030R) B/W : 0Lux (IR LED on)	Color : 0.2Lux B/W : 0Lux (IR LED on)	Color : 0.095Lux B/W : 0Lux (IR LED on)
Video Output	-	-	-	-
Lens	2.8 ~ 12mm (4.3x) motorized V/F (F1.4)	2.8mm fixed (F2.0) (QNV-7010R) 3.6mm fixed (F2.2) (QNV-7020R) 6.0mm fixed (F2.2) (QNV-7030R)	3.2 ~ 10mm (3.1x) motorized V/F (F1.6)	2.8 ~ 12mm (4.3x) Manual V/F (F1.4)
Angular Field of View	H : 109.7°(Wide) ~ 26.0°(Tele) / V : 60.8°(Wide) ~ 15.2°(Tele) / D : 131.3°(Wide) ~ 30.1°(Tele)	H : 110.0° / V : 63.0° / D : 133.0° (QNV-7010R) H : 81.0° / V : 45.0° / D : 95.0° (QNV-7020R) H : 53.0° / V : 31.0° / D : 62.0° (QNV-7030R)	H : 100.0°(Wide) ~ 30.5°(Tele) / V : 55.7°(Wide) ~ 18.3°(Tele) / D : 119.6°(Wide) ~ 35.3°(Tele)	H : 103.8°(Wide) ~ 32.4°(Tele) / V : 53.7°(Wide) ~ 18.4°(Tele) / D : 121.9°(Wide) ~ 37.1°(Tele)
Focus Control	Simple focus (motorized V/F) / Manual	-	Simple focus (Motorized V/F) / Manual	Manual
IR Viewable Length	30m (98.43ft)	20m (65.62ft) (QNV-7010R), 25m (82.02ft) (QNV-7020R), 30m (98.43ft) (QNV-7030R)	30m (98.43ft)	30m (98.43ft)
Pan / Tilt / Rotate	0° ~ 350° / 0° ~ 67° / 0° ~ 355°	0° ~ 350° / 0° ~ 67° / 0° ~ 355°	0° ~ 350° / 0° ~ 70° / 0° ~ 360°	-
Day & Night	True (ICR)	True (ICR)	True (ICR)	True (ICR)
Backlight Compensation	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)
Digital Noise Reduction	SSNR	SSNR	SSNR	SSNR
Digital Image Stabilization	-	-	-	-
Video & Audio Analytics	Motion detection with metadata, Tampering, Defocus detection	Motion detection with metadata, Tampering, Defocus detection	Motion detection with metadata, Tampering, Defocus detection	Motion detection with metadata, Tampering, Defocus detection
Protocol	ONVIF profile S/G, SUNAPI	ONVIF profile S/G, SUNAPI	ONVIF profile S/G, SUNAPI	ONVIF profile S/G, SUNAPI
Alarm I/O	1 / 1	1 / 1	1 / 1	1 / 1
Audio	Uni-Directional	Uni-Directional	Uni-Directional	Uni-Directional
Edge Storage	Micro SD/SDHC/SDXC, NAS	Micro SD/SDHC/SDXC, NAS	Micro SD/SDHC/SDXC, NAS	Micro SD/SDHC/SDXC, NAS
Environment Protection	IP66, IK10	IP66, IK10	IP66, IK10	IP66, IK10
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)
Power	Max. 6.4W (12V DC) Max. 7.2W (PoE)	Max. 5.8W (12V DC) Max. 7.0W (PoE) (QNV-7010R) Max. 5.7W (12V DC) Max. 6.8W (PoE) (QNV-7020R/7030R)	Max. 7.7W (12V DC) Max. 8.6W (PoE)	Max. 7.0W (12V DC) Max. 8.0W (PoE)
Dimensions (WxHxD) / Weight	Ø137.0 x 106.1mm (Ø5.39" x 4.18") 680g (1.5 lb)	Ø120.3 x 91.7mm (Ø4.74" x 3.61") 490g (1.08 lb)	Ø144.9 x 135.5mm (Ø5.70" x 5.33") 1.3Kg (2.87lb)	Ø70.0 x 246.0mm (Ø2.76" x 9.69") (Without Sunshield) 730g (1.61 lb)
Additional Features	Lens distortion correction, Hallway View, WiseStream	Lens distortion correction, Hallway View, WiseStream	Lens distortion correction, Hallway View, WiseStream	Lens distortion correction, Hallway View, WiseStream



QNO-6010R/6020R/6030R



QND-6070R



QND-6010R/6020R/6030R



QNV-6070R

	2MP	2MP	2MP	2MP
Resolution	2MP	2MP	2MP	2MP
Imaging Device	1/2.9" 2.19M CMOS	1/2.9" 2.19M CMOS	1/2.9" 2.19M CMOS	1/2.9" 2.19M 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	2M / 30fps	2M / 30fps	2M / 30fps	2M / 30fps
Streaming Capacity	Multiple (Up to 3 Profiles)	Multiple (Up to 3 Profiles)	Multiple (Up to 3 Profiles)	Multiple (Up to 3 Profiles)
Max. User Access	6 (Unicast)	6 (Unicast)	6 (Unicast)	6 (Unicast)
Min. Illumination	Color: 0.15Lux B/W: 0Lux (IR LED on)	Color: 0.095Lux B/W: 0Lux (IR LED on)	Color: 0.15Lux B/W: 0Lux (IR LED on)	Color: 0.095Lux B/W: 0Lux (IR LED on)
Video Output	-	-	-	-
Lens	2.8mm fixed (F2.0) (QNO-6010R) 3.6mm fixed (F1.8) (QNO-6020R) 6.0mm fixed (F1.8) (QNO-6030R)	2.8 ~ 12mm (4.3x) Manual V/F (F1.4)	2.8mm fixed (F1.8) (QND-6010R) 3.6mm fixed (F1.8) (QND-6020R) 6.0mm fixed (F1.8) (QND-6030R)	2.8 ~ 12mm (4.3x) Manual V/F (F1.4)
Angular Field of View	H: 116.0° / V: 62.0° / D: 137.0° (QNO-6010R) H: 86.48° / V: 46.22° / D: 102.44° (QNO-6020R) H: 52.54° / V: 28.86° / D: 61.14° (QNO-6030R)	H: 103.8°(Wide) ~ 32.4°(Tele) / V: 53.7°(Wide) ~ 18.4°(Tele) / D: 121.9°(Wide) ~ 37.1°(Tele)	H: 111.0° / V: 61.0° / D: 125.0° (QND-6010R) H: 86.48° / V: 46.22° / D: 102.44° (QND-6020R) H: 52.54° / V: 28.86° / D: 61.14° (QND-6030R)	H: 103.8°(Wide) ~ 32.4°(Tele) / V: 53.7°(Wide) ~ 18.4°(Tele) / D: 121.9°(Wide) ~ 37.1°(Tele)
Focus Control	-	Manual	-	Manual
IR Viewable Length	20m (65.62ft) : QNO-6010R, 25m (82.02ft) : QNO-6020R, 30m (98.43ft) : QNO-6030R	20m (65.62ft)	20m (65.62ft)	30m (98.43ft)
Pan / Tilt / Rotate	-	0° ~ 350° / 0° ~ 67° / 0° ~ 355°	0° ~ 350° / 0° ~ 67° / 0° ~ 355°	0° ~ 350° / 0° ~ 67° / 0° ~ 355°
Day & Night	True (ICR)	True (ICR)	True (ICR)	True (ICR)
Backlight Compensation	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)
Digital Noise Reduction	SSNR	SSNR	SSNR	SSNR
Digital Image Stabilization	-	-	-	-
Video & Audio Analytics	Motion detection with metadata, Tampering, Defocus detection	Motion detection with metadata, Tampering, Defocus detection	Motion detection with metadata, Tampering, Defocus detection	Motion detection with metadata, Tampering, Defocus detection
Protocol	ONVIF profile S/G, SUNAPI	ONVIF profile S/G, SUNAPI	ONVIF profile S/G, SUNAPI	ONVIF profile S/G, SUNAPI
Alarm I/O	1 / 1	1 / 1	1 / 1	1 / 1
Audio	Uni-Directional	Uni-Directional	Uni-Directional	Uni-Directional
Edge Storage	Micro SD/SDHC/SDXC, NAS	Micro SD/SDHC/SDXC, NAS	Micro SD/SDHC/SDXC, NAS	Micro SD/SDHC/SDXC, NAS
Environment Protection	IP66, IK10	-	IK08	IP66, IK10
Operating Temperature	-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)
Power	Max. 6.0W (12V DC) Max. 7.0W (PoE)	Max. 5.5W (12V DC) Max. 6.7W (PoE)	Max. 5.8W (12V DC) Max. 7.0W (PoE) (QND-6010R) Max. 5.43W (12V DC) Max. 6.5W (PoE) (QND-6020R/6030R)	Max. 5.5W (12V DC) Max. 6.7W (PoE)
Dimensions (WxHxD) / Weight	Ø70.0 x 246.0mm (Ø2.76" x 9.69") (Without Sunshield) 730g (1.61 lb)	Ø119.8 x 98.8mm (Ø4.72" x 3.89") 325g (0.72 lb)	Ø110.0 x 86.0mm (Ø4.33" x 3.39") 290g (0.64 lb)	Ø137.0 x 106.1mm (Ø5.39" x 4.18") 660g (1.46 lb)
Additional Features	Lens distortion correction, Hallway View, WiseStream	Lens distortion correction, Hallway View, WiseStream	Lens distortion correction, Hallway View, WiseStream	Lens distortion correction, Hallway View, WiseStream



QNV-6010R/6020R/6030R



QNE-6080RV/6080RVW



QNP-6230H/6230

Resolution	2MP	2MP	2MP
Imaging Device	1/2.9" 2.19M CMOS	1/2.9" 2.19M CMOS	1/2.8" 2.4M CMOS
Video Compression	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG
Resolution / Frame Rate	2M / 30fps	2M / 30fps	2M / 30fps
Streaming Capacity	Multiple (Up to 3 Profiles)	Multiple (Up to 3 Profiles)	Multiple (Up to 10 Profiles)
Max. User Access	6 (Unicast)	6 (Unicast)	10 (Unicast)
Min. Illumination	Color : 0.15Lux B/W : 0Lux (IR LED on)	Color : 0.095Lux B/W : 0Lux (IR LED on)	Color : 0.2Lux B/W : 0.01Lux
Video Output	-	-	CVBS 1.0Vpp
Lens	2.8mm fixed (F1.8) (QNV-6010R) 3.6mm fixed (F1.8) (QNV-6020R) 6.0mm fixed (F1.8) (QNV-6030R)	3.2 ~ 10mm (3.1x) motorized V/F (F1.6)	4.44 ~ 102.2mm (Optical 23x) F1.6(Wide) / F3.6(Tele)
Angular Field of View	H : 110.0° / V : 61.0° / D : 125.0° (QNV-6010R) H : 86.48° / V : 46.22° / D : 102.44° (QNV-6020R) H : 52.54° / V : 28.86° / D : 61.14° (QNV-6030R)	H : 104.2°(Wide) ~ 31.2°(Tele) / V : 55.1°(Wide) ~ 17.5°(Tele) / D : 124.3°(Wide) ~ 35.8°(Tele)	H : 61.8°(Wide) ~ 3.08°(Tele) / V : 36.2°(Wide) ~ 1.73°(Tele)
Focus Control	-	Simple focus (Motorized V/F) / Manual	Auto / Manual / One shot AF
IR Viewable Length	20m (65.62ft) (QNV-6010R), 25m (82.02ft) (QNV-6020R), 30m (98.43ft) (QNV-6030R)	30m (98.43ft)	-
Pan / Tilt / Rotate	0° ~ 350° / 0° ~ 67° / 0° ~ 355°	0° ~ 350° / 0° ~ 70° / 0° ~ 360°	360° Endless / 210° (-15° ~ 195°)
Day & Night	True (ICR)	True (ICR)	True (ICR)
Backlight Compensation	WDR (120dB)	WDR (120dB)	WDR (120dB)
Digital Noise Reduction	SSNR	SSNR	SSNRV (2D+3D Noise filter)
Digital Image Stabilization	-	-	Support (Built in Gyro sensor)
Video & Audio Analytics	Motion detection with metadata, Tampering, Defocus detection	Motion detection with metadata, Tampering, Defocus detection	Tampering, Motion detection
Protocol	ONVIF profile S/G, SUNAPI	ONVIF profile S/G, SUNAPI	ONVIF profile S/G, SUNAPI
Alarm I/O	1 / 1	1 / 1	4 / 2 (Relay)
Audio	Uni-Directional	Uni-Directional	Bi-directional
Edge Storage	Micro SD/SDHC/SDXC, NAS	Micro SD/SDHC/SDXC, NAS	SD/SDHC/SDXC, NAS, Local PC
Environment Protection	IP66, IK10	IP66, IK10	IP66, IK10 (QNP-6230H) IK10 (With SHP-3701H)(QNP-6230)
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)	-50°C ~ +55°C(-58°F ~ +131°F) (24V AC) -30°C ~ +55°C(-22°F ~ +131°F) (PoE+) (QNP-6230H) -10°C ~ +55°C(+14°F ~ +131°F)(QNP-6230)
Power	Max. 5.8W (12V DC) / Max. 7.0W (PoE) (QNV-6010R) Max. 5.7W (12V DC) / Max. 6.8W (PoE) (QNV-6020R/6030R)	Max. 7.6W (12V DC) Max. 8.3W (PoE)	Max. 24.0W - Heater Off (24V AC, PoE+), Max. 65.0W - Heater On (24V AC)(QNP-6230H) Max. 20.0W (24V AC, PoE+)(QNP-6230)
Dimensions (WxHxD) / Weight	Ø120.3 x 91.7mm (Ø4.74" x 3.61") 490g (1.08 lb)	Ø144.9 x 135.5mm (Ø5.70" x 5.33") 1.3Kg (2.87lb)	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)
Additional Features	Lens distortion correction, Hallway View, WiseStream	Lens distortion correction, Hallway View, WiseStream	Defog, WiseStream II

WISENET T series



Specialized cameras for challenging conditions

T series offers explosion proof and thermal cameras which ensure a reliable video surveillance system even in the most challenging conditions. Explosion proof cameras can be used in heavy industrial facilities where a single spark may cause an explosion and thermal cameras are suitable for detecting people and objects in difficult weather conditions.



Explosion proof cameras for hazardous environments

Heavy industrial facilities such as gas pipelines or oil refineries are potentially explosive because of flammable gases and dust emitted. T series explosion proof cameras are designed to be safely operated in hazardous areas with the special enclosure made of stainless steel 316L housing. The ATEX certified enclosure has the ability to contain any internal sparks or explosions which may lead to a disaster.

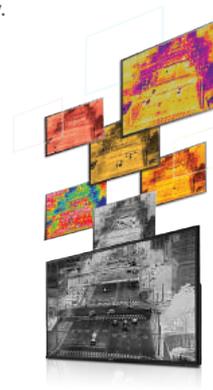


TNO-6320E

TNU-6320E

Detect people and objects 24/7 with thermal cameras

In challenging weather (fog, smoke, rain) or lighting conditions (complete darkness, backlight), it can be difficult to distinguish people or objects in a complex background by a visible camera or a human eye. Wisenet thermal cameras are the excellent choice: they provide high contrast images based on temperature differences between the object and background, so that users can detect incidents more easily.



TNO-4051T/4041T/
4041TR

TNO-4050T/4040T/4030T/
4040TR/4030TR



TNV-7010RC



TNO-6320E



TNU-6320E



TNU-6320



TNU-4051T/4041T

	TNV-7010RC	TNO-6320E	TNU-6320E	TNU-6320	TNU-4051T/4041T
Resolution	3MP	2MP	2MP	2MP	VGA
Imaging Device	1/2.8" 3.2M CMOS	1/2.8" 2.38M CMOS	1/2.8" 2.38M CMOS	1/2.8" 2.38M CMOS	Uncooled Microbolometer
Video Compression	H.265, H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.265, H.264, MJPEG
Resolution / Frame Rate	3M / 30fps	2M / 60fps	2M / 60fps	2M / 60fps	640 x 480 / 30fps
Streaming Capacity	Multiple (Up to 10 Profiles)	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)	10 (Unicast)	10 (Unicast)	10 (Unicast)	20 (Unicast)
Min. Illumination	Color : 0.3Lux B/W : 0Lux	Color : 015Lux B/W : 0.015Lux	Color : 015Lux B/W : 0.015Lux	Color : 0.3Lux B/W : 0.03Lux	-
Video Output	CVBS 1.0Vpp	-	-	CVBS 1.0Vpp	CVBS 1.0Vpp
Lens	2.8mm fixed (F2.0)	4.44 ~ 142.6mm (Optical 32x) F1.6(Wide) / F4.4(Tele)	4.44 ~ 142.6mm (Optical 32x) F1.6(Wide) / F4.4(Tele)	4.44 ~ 142.6mm (Optical 32x) F1.6(Wide) / F4.4(Tele)	35mm fixed (F1.0) (TNU-4051T) 19mm fixed (F1.0) (TNU-4041T)
Angular Field of View	H : 102° / V : 75° / D : 129°	H : 62.8°(Wide) ~ 2.23°(Tele) / V : 36.8°(Wide) ~ 1.26°(Tele)	H : 62.8°(Wide) ~ 2.23°(Tele) / V : 36.8°(Wide) ~ 1.26°(Tele)	H : 62.8°(Wide) ~ 2.23°(Tele) / V : 36.8°(Wide) ~ 1.26°(Tele)	H : 17.2° / V : 13° / D : 22° (TNU-4051T) H : 32° / V : 24.3° / D : 39.2° (TNU-4041T)
Focus Control	Manual	Auto / Manual / One push	Auto / Manual / One push	Auto / Manual / One push	Fixed
IR Viewable Length	10m(32.8ft) with 940nm IR LED	-	-	-	-
Pan / Tilt / Rotate	- / ±15° / -	-	360° Endless / 180° (-90° ~ 90°) / -	360° Endless / -90° ~ 40° / -	360° Endless / -90° ~ 40° / -
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	Auto (ICR)	-
Backlight Compensation	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)	-
Digital Noise Reduction	SSNRV (2D+3D Noise Filter)	SSNRIII (2D+3D Noise filter)	SSNRIII (2D+3D Noise filter)	SSNRIII (2D+3D Noise filter)	-
Digital Image Stabilization	Support	Support	Support	Support	Support (Built in Gyro sensor)
Video & Audio Analytics	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, Shock detection	Motion detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Face detection	Motion detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Face detection	Tampering, Virtual line, Enter/Exit, (Dis)Appear, Face detection	Tampering, Loitering, Directional detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Sound classification, Shock detection, Temperature change detection
Protocol	ONVIF Profile S/G, SUNAPI	ONVIF Profile S, SUNAPI	ONVIF Profile S, SUNAPI	ONVIF Profile S, SUNAPI	ONVIF Profile S/G, SUNAPI
Alarm I/O	1 / 1	1 / 1 (Relay)	1 / 1 (Relay)	1 / 1 (Relay)	1 / 1
Audio	Bi-directional	-	-	Bi-directional	Bi-directional
Edge Storage	SD/SDHC/SDXC, NAS, Local PC	NAS	NAS	SD/SDHC/SDXC, NAS	SD/SDHC/SDXC, NAS, Local PC
Environment Protection	IP66, IP6K9K, IK10+	IP67, IK10	IP67, IK10	IP66	IP66, NEMA4X, IK10 (TNU-4041T)
Operating Temperature	-10°C ~ +55°C (-14°F ~ +131°F)	-40°C ~ +60°C (-40°F ~ +140°F) * Start up above -30°C (-22°F)	-40°C ~ +60°C (-40°F ~ +140°F) * Start up above -30°C (-22°F)	-40°C ~ +55°C (-40°F ~ +131°F)	-40°C ~ +60°C (-40°F ~ +140°F)
Power	Max. 11W (12V DC) Max. 12W (PoE)	Max. 28.0W - Heater on (24V AC)	Max. 49.0W - Heater on (24V AC)	100W - Heater on, 25W - Heater off (24V AC)	84W - Heater on, 62W - Heater off (24V AC)
Dimensions (WxHxD) / Weight	236 x 236 x 126.5mm (9.29" x 9.29" x 4.98") 2.2kg (4.85lb)	Ø162.0 x 244.0mm (Ø6.38" x 9.61") 7Kg (15.43 lb)	384.0 x 402.0 x 250.0mm (15.12" x 15.83" x 9.84") 35Kg (77.16 lb)	219.0 x 460.0 x 528.0mm (8.62" x 18.11" x 20.79") 14Kg (30.86 lb)	219x528x335mm (8.62" x 20.79" x 13.19") 11.7 kg (25.79 lb)
Additional Features	Anti ligature design, Invisible IR LED, Shock detection	Explosion certification : CE2460 EX II 2 GD Ex d IIC T6 Gb IP67 Ex tb IIIC T85°C Db, Built in wiper	Explosion certification : CE2460 EX II 2 GD Ex d IIC T6 Gb IP67 Ex tb IIIC T80°C Db, Built in wiper	Defog, Built in wiper	Handover, WiseStream II, Advanced video analytics, Sound classification, Various Color palettes



TNO-4051T



TNO-4050T



TNO-4041T



TNO-4040T

Resolution	VGA	VGA	VGA	VGA
Imaging Device	Uncooled Microbolometer	Uncooled Microbolometer	Uncooled Microbolometer	Uncooled Microbolometer
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	640 x 480 / 30fps			
Streaming Capacity	Multiple (Up to 10 Profiles)			
Max. User Access	20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)
Min. Illumination	-	-	-	-
Video Output	CVBS 1.0Vpp	CVBS 1.0Vpp, Micro USB type B	CVBS 1.0Vpp	CVBS 1.0Vpp, Micro USB type B
Lens	35mm fixed (F1.0)	35mm fixed (F1.0)	19mm fixed (F1.0)	19mm fixed (F1.0)
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°
Focus Control	Fixed	Fixed	Fixed	Fixed
IR Viewable Length	-	-	-	-
Pan / Tilt / Rotate	-	-	-	-
Day & Night	-	-	-	-
Backlight Compensation	-	-	-	-
Digital Noise Reduction	-	-	-	-
Digital Image Stabilization	Support (Built in Gyro sensor)			
Video & Audio Analytics	Tampering, Loitering, Directional detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Sound classification, Shock detection, Temperature change detection	Tampering, Loitering, Directional detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Sound classification, Shock detection, Temperature change detection	Tampering, Loitering, Directional detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Sound classification, Shock detection, Temperature change detection	Tampering, Loitering, Directional detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Sound classification, Shock detection, Temperature change detection
Protocol	ONVIF profile S&G, SUNAPI			
Alarm I/O	1 / 2	1 / 2	1 / 2	1 / 2
Audio	Bi-directional	Bi-directional	Bi-directional	Bi-directional
Edge Storage	SD/SDHC/SDXC, NAS, Local PC			
Environment Protection	IP66, NEMA4X	IP66, NEMA4X	IP66, NEMA4X, IK10	IP66, NEMA4X, IK10
Operating Temperature	-40°C ~ +60°C (-40°F ~ +140°F)			
Power	Max. 10.5W (24V AC), Max. 9W (12V DC), Max. 10W (PoE)	Max. 10.5W (24V AC), Max. 9W (12V DC), Max. 10W (PoE)	Max. 10.5W (24V AC), Max. 9W (12V DC), Max. 10W (PoE)	Max. 10.5W (24V AC), Max. 9W (12V DC), Max. 10W (PoE)
Dimensions (WxHxD) / Weight	Ø101.97 x 309mm (Ø4.01" x 12.17") 2.45Kg (5.41 lb)	Ø101.97 x 401.8mm (Ø4.01" x 15.82") 3.13Kg (6.89 lb)	Ø101.97 x 309mm (Ø4.01" x 12.17") 2.45Kg (5.40 lb)	Ø101.97 x 401.8mm (Ø4.01" x 15.82") 3.13Kg (6.89 lb)
Additional Features	Handover, WiseStream II, Advanced video analytics, Sound classification, Hallway view, Various Color palettes, PT type	Handover, WiseStream II, Advanced video analytics, Sound classification, Hallway view, Various Color palettes	Handover, WiseStream II, Advanced video analytics, Sound classification, Various Color palettes, PT type	Handover, WiseStream II, Advanced video analytics, Sound classification, Hallway view, Various Color palettes



TNO-4030T



TNO-4041TR



TNO-4040TR



TNO-4030TR

Resolution	VGA	VGA	VGA	VGA
Imaging Device	Uncooled Microbolometer	Uncooled Microbolometer	Uncooled Microbolometer	Uncooled Microbolometer
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	640 x 480 / 30fps	640 x 480 / 30fps	640 x 480 / 30fps	640 x 480 / 30fps
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	-	-	-	-
Video Output	CVBS 1.0Vpp, Micro USB type B	CVBS 1.0Vpp	CVBS 1.0Vpp, Micro USB type B	CVBS 1.0Vpp, Micro USB type B
Lens	13mm fixed (F1.0)	19mm fixed (F1.0)	19mm fixed (F1.0)	13mm fixed (F1.0)
Angular Field of View	H: 48.6° / V: 36.4° / D: 61.6°	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°
Focus Control	Fixed	Fixed	Fixed	Fixed
IR Viewable Length	-	-	-	-
Pan / Tilt / Rotate	-	-	-	-
Day & Night	-	-	-	-
Backlight Compensation	-	-	-	-
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)
Video & Audio Analytics	Tampering, Loitering, Directional detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Sound classification, Shock detection, Temperature change detection	Tampering, Loitering, Directional detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Sound classification, Shock detection, Temperature detection	Tampering, Loitering, Directional detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Sound classification, Shock detection, Temperature detection	Tampering, Loitering, Directional detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Sound classification, Shock detection, Temperature detection
Protocol	ONVIF profile S&G, SUNAPI	ONVIF profile S&G, SUNAPI	ONVIF profile S&G, SUNAPI	ONVIF profile S&G, SUNAPI
Alarm I/O	1 / 2	1 / 2	1 / 2	1 / 2
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	IP66, NEMA4X, IK10	IP66, NEMA4X, IK10	IP66, NEMA4X, IK10	IP66, NEMA4X, IK10
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)
Power	Max. 10.5W (24V AC), Max. 9W (12V DC), Max. 10W (PoE)	Max. 10.5W (24V AC), Max. 9W (12V DC), Max. 10W (PoE)	Max. 10.5W (24V AC), Max. 9W (12V DC), Max. 10W (PoE)	Max. 10.5W (24V AC), Max. 9W (12V DC), Max. 10W (PoE)
Dimensions (WxHxD) / Weight	Ø101.97 x 401.8mm (Ø4.01" x 15.82") 3.12Kg (6.89 lb)	Ø101.97 x 309mm (Ø4.01" x 12.17") 2.45Kg (5.40 lb)	Ø101.97 x 401.8mm (Ø4.01" x 15.82") 3.13Kg (6.89 lb)	Ø101.97 x 401.8mm (Ø4.01" x 15.82") 3.12Kg (6.88 lb)
Additional Features	Handover, WiseStream II, Advanced video analytics, Sound classification, Hallway view, Various Color palettes	Handover, WiseStream II, Advanced video analytics, Sound classification, Various Color palettes, PT type, Radiometry	Handover, WiseStream II, Advanced video analytics, Sound classification, Hallway view, Various Color palettes, Radiometry	Handover, WiseStream II, Advanced video analytics, Sound classification, Hallway view, Various Color palettes, Radiometry



LNO-6070R



LNO-6010R/6020R/6030R



LND-6070R



LND-6010R/6020R/6030R



LNV-6070R



LNV-6010R/6020R/6030R

	LNO-6070R	LNO-6010R/6020R/6030R	LND-6070R	LND-6010R/6020R/6030R	LNV-6070R	LNV-6010R/6020R/6030R
Resolution	2MP	2MP	2MP	2MP	2MP	2MP
Imaging Device	1/2.9" 2.19M CMOS	1/2.9" 2.19M CMOS	1/2.9" 2.19M CMOS	1/2.9" 2.19M CMOS	1/2.9" 2.19M CMOS	1/2.9" 2.19M CMOS
Video Compression	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
Resolution / Frame Rate	2M / 30fps	2M / 30fps	2M / 30fps	2M / 30fps	2M / 30fps	2M / 30fps
Streaming Capacity	Multiple (Up to 3 Profiles)	Multiple (Up to 3 Profiles)	Multiple (Up to 3 Profiles)	Multiple (Up to 3 Profiles)	Multiple (Up to 3 Profiles)	Multiple (Up to 3 Profiles)
Max. User Access	6 (Unicast)	6 (Unicast)	6 (Unicast)	6 (Unicast)	6 (Unicast)	6 (Unicast)
Min. Illumination	Color : 0.095Lux B/W : 0Lux (IR LED on)	Color : 0.18Lux B/W : 0Lux (IR LED on)	Color : 0.095Lux B/W : 0Lux (IR LED on)	Color : 0.18Lux B/W : 0Lux (IR LED on)	Color : 0.095Lux B/W : 0Lux (IR LED on)	Color : 0.18Lux B/W : 0Lux (IR LED on)
Lens	3.2 ~ 10mm (3.1x) V/F (F1.6)	3mm fixed (F2.0) (LNO-6010R) 4mm fixed (F2.0) (LNO-6020R) 6mm fixed (F2.0) (LNO-6030R)	3.2 ~ 10mm (3.1x) V/F (F1.6)	3mm fixed (F2.0) (LND-6010R) 4mm fixed (F2.0) (LND-6020R) 6mm fixed (F2.0) (LND-6030R)	3.2 ~ 10mm (3.1x) V/F (F1.6)	3mm fixed (F2.0) (LNV-6010R) 4mm fixed (F2.0) (LNV-6020R) 6mm fixed (F2.0) (LNV-6030R)
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° / V : 54° / D : 120° (LNO-6010R) H : 80° / V : 43° / D : 94° (LNO-6020R) H : 51° / V : 29° / D : 58° (LNO-6030R)	H : 101.6°(Wide) ~ 31.3°(Tele) / V : 54.1°(Wide) ~ 17.8°(Tele) / D : 120.6°(Wide) ~ 36.0°(Tele)	H : 102° / V : 54° / D : 120° (LND-6010R) H : 80° / V : 43° / D : 94° (LND-6020R) H : 51° / V : 29° / D : 58° (LND-6030R)	H : 101.6°(Wide) ~ 31.3°(Tele) / V : 54.1°(Wide) ~ 17.8°(Tele) / D : 120.6°(Wide) ~ 36.0°(Tele)	H : 102° / V : 54° / D : 120° (LNV-6010R) H : 80° / V : 43° / D : 94° (LNV-6020R) H : 51° / V : 29° / D : 58° (LNV-6030R)
Focus Control	Manual	-	Manual	-	Manual	-
IR Viewable Length	30m (98.43ft)	30m (98.43ft)	20m (65.62ft)	20m (65.62ft)	30m (98.43ft)	30m (98.43ft)
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°
Day & Night	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)
Backlight Compensation	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)
Digital Noise Reduction	SSNR	SSNR	SSNR	SSNR	SSNR	SSNR
Digital Image Stabilization	-	-	-	-	-	-
Video & Audio Analytics	Motion detection, Tampering	Motion detection, Tampering	Motion detection, Tampering	Motion detection, Tampering	Motion detection, Tampering	Motion detection, Tampering
Protocol	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
Alarm I/O	-	-	-	-	-	-
Audio	-	-	-	-	-	-
Edge Storage	SD/SDHC, Local PC	SD/SDHC, Local PC	SD/SDHC, Local PC	SD/SDHC, Local PC	SD/SDHC, Local PC	SD/SDHC, Local PC
Environment Protection	IP66	IP66	-	-	IP66, IK10	IP66, IK10
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)
Power	6.5W (PoE)	6.5W (PoE)	6.5W (PoE)	6.5W (PoE)	6.5W (PoE)	6.5W (PoE)
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	Lens distortion correction, Hallway View	Lens distortion correction, Hallway View	Lens distortion correction, Hallway View	Lens distortion correction, Hallway View	Lens distortion correction, Hallway View	Lens distortion correction, Hallway View

NVR



XRN-3010/3010A



XRN-2011/2011A



XRN-2010/2010A

OS	Linux	Linux	Linux
Supported Compression	H.265, H.264, MJPEG, WiseStream	H.265, H.264, MJPEG, WiseStream	H.265, H.264, MJPEG, WiseStream
Max. Recording Bit Rate	300Mbps	256Mbps 100Mbps (RAID 5 mode)	256Mbps
Max # of Cameras	64	32	32
Internal Storage	Up to 8 SATA (Max. 64TB)	Up to 8 SATA (Hot swap) Max. 48TB (Non RAID), Max.36TB (RAID 5)	Up to 8 SATA (Max. 48TB) (XRN-2010)
External Storage	1 e-SATA	iSCSI	iSCSI, 1 e-SATA
RAID	-	RAID 5	-
Hot Swap	-	Yes	-
Network Viewer Software	SSM, WebViewer, SmartViewer, Wisenet Mobile	SSM, WebViewer, SmartViewer, Wisenet Mobile	SSM, WebViewer, SmartViewer, Wisenet Mobile
Local Monitor	HDMI (Up to 4K), VGA Support dual monitor : HDMI /VGA	HDMI (Up to 4K), VGA Support dual monitor : HDMI /VGA	HDMI (Up to 4K), VGA Support dual monitor : HDMI /VGA
Camera Support	SUNAPI, ONVIF	SUNAPI, ONVIF	SUNAPI, ONVIF
Features	<ul style="list-style-type: none"> • N+1 failover supported • ARB redundancy supported • WiseStream supported • Defocus event trigger • Easy configuration (Setup Wizard, P2P (QR Code)) (XRN-3010A) 	<ul style="list-style-type: none"> • N+1 failover supported • ARB redundancy supported • WiseStream supported • Easy configuration (Setup Wizard, P2P (QR Code)) (XRN-2011A) 	<ul style="list-style-type: none"> • N+1 failover supported • ARB redundancy supported • WiseStream supported • Easy configuration (Setup Wizard, P2P (QR Code)) (XRN-2010A)



XRN-1610S/1610/1610SA/1610A



XRN-810S



XRN-410S

OS	Linux	Linux	Linux
Supported Compression	H.265, H.264, MJPEG, WiseStream	H.265, H.264, MJPEG, WiseStream	H.265, H.264, MJPEG, WiseStream
Max. Recording Bit Rate	180Mbps	100Mbps	50Mbps
Max # of Cameras	16	8	4
Internal Storage	Up to 4 SATA (Max. 24TB) (XRN-1610S) Up to 8 SATA (Max. 48TB) (XRN-1610)	Up to 2 SATA (Max. 12TB)	Up to 1 SATA (Max. 6TB)
External Storage	iSCSI, 1 e-SATA	-	-
RAID	-	-	-
Hot Swap	-	-	-
Network Viewer Software	SSM, WebViewer, SmartViewer, Wisenet Mobile	SSM, WebViewer, SmartViewer, Wisenet Mobile	SSM, WebViewer, SmartViewer, Wisenet Mobile
Local Monitor	HDMI (Up to 4K), VGA Support dual monitor : HDMI /VGA	HDMI (Up to 4K), VGA	HDMI (Up to 4K), VGA
Camera Support	SUNAPI, ONVIF	SUNAPI, ONVIF	SUNAPI, ONVIF
Features	<ul style="list-style-type: none"> • Plug & play by 16 PoE / PoE+ Ports (XRN-1610S) • WiseStream supported • Defocus event trigger • Easy configuration (Setup Wizard, P2P (QR Code)) (XRN-1610SA/1610A) 	<ul style="list-style-type: none"> • Plug & play by 8 PoE / PoE+ Ports • ARB supported • Easy configuration (Setup Wizard, P2P (QR Code)) • Event push to smart phone • Transmission bandwidth 128Mbps • Defocus event trigger 	<ul style="list-style-type: none"> • Plug & play by 4 PoE / PoE+ Ports • ARB supported • Easy configuration (Setup Wizard, P2P (QR Code)) • Event push to smart phone • Transmission bandwidth 64Mbps • Defocus event trigger



PRN-4011



PRP-5000H16



PRP-4000H8

	PRN-4011	PRP-5000H16	PRP-4000H8
OS	Linux	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise
Supported Compression	H.265, H.264, MJPEG, WiseStream	H.265, H.264, MJPEG, WiseStream	H.265, H.264, MJPEG, WiseStream
Max. Recording Bit Rate	400Mbps	520Mbps	400Mbps
Max # of Cameras	64	128	72
Internal Storage	Up to 12 SATA (Max. 96TB)	Up to 16 SATA (Max. 160TB)	Up to 8 SATA (Max. 80TB)
External Storage	iSCSI	iSCSI	iSCSI
RAID	RAID 5/6	RAID 0/1/5/6	RAID 0/1/5/6
Hot Swap	Yes	Yes	Yes
Network Viewer Software	SSM, WebViewer, SmartViewer, Wisenet Mobile	SSM Client, SSM Mobile	SSM Client, SSM Mobile
Local Monitor	HDMI (Up to 4K), VGA Support dual monitor : HDMI / VGA	HDMI, VGA, DVI	HDMI, VGA, DP
Camera Support	SUNAPI, ONVIF	SUNAPI, ONVIF	SUNAPI, ONVIF
Features	<ul style="list-style-type: none"> • N+1 failover supported • ARB redundancy supported • WiseStream supported • Defocus event trigger 	<ul style="list-style-type: none"> • Dual track recording • Active - Active failover supported • WiseStream supported • Server clustering supported (Max. 2048CH) 	<ul style="list-style-type: none"> • Dual track recording • Active - Active failover supported • WiseStream supported • Server clustering supported (Max. 2048CH)



QRN-1610S



QRN-810S/810



QRN-410S/410

	QRN-1610S	QRN-810S/810	QRN-410S/410
OS	Linux	Linux	Linux
Supported Compression	H.265, H.264, MJPEG	H.265, H.264, MJPEG, WiseStream	H.265, H.264, MJPEG, WiseStream
Max. Recording Bit Rate	128Mbps	100Mbps (QRN-810), 80Mbps (QRN-810S)	50Mbps (QRN-410), 40Mbps (QRN-410S)
Max # of Cameras	16	8	4
Internal Storage	Up to 2 SATA (Max. 12TB)	Up to 1 SATA (Max. 6TB)	Up to 1 SATA (Max. 6TB)
External Storage	-	-	-
RAID	-	-	-
Hot Swap	-	-	-
Network Viewer Software	SSM, WebViewer, SmartViewer, Wisenet Mobile	SSM, WebViewer, SmartViewer, Wisenet Mobile	SSM, WebViewer, SmartViewer, Wisenet Mobile
Local Monitor	HDMI (Up to 4K), VGA	HDMI (Up to 4K), VGA (QRN-810) HDMI (Up to 4K) (QRN-810S)	HDMI (Up to 4K), VGA (QRN-410) HDMI (Up to 4K) (QRN-410S)
Camera Support	SUNAPI, ONVIF	SUNAPI, ONVIF	SUNAPI, ONVIF
Features	<ul style="list-style-type: none"> • Plug & play by 16 PoE ports • ARB supported • Easy Configuration (Setup Wizard, P2P (QR Code)) • Event push to smart phone • Transmission bandwidth 128Mbps • Defocus event trigger 	<ul style="list-style-type: none"> • Plug & play by 8 PoE ports (QRN-810S) • ARB supported • Easy configuration (Setup Wizard, P2P (QR Code)) • Event push to smart phone • Transmission bandwidth 128Mbps (QRN-810), 80Mbps (QRN-810S) • Defocus event trigger 	<ul style="list-style-type: none"> • Plug & play by 4 PoE ports (QRN-410S) • ARB supported • Easy configuration (Setup Wizard, P2P (QR Code)) • Event push to smart phone • Transmission bandwidth 64Mbps (QRN-410), 50Mbps (QRN-410S) • Defocus event trigger



TRM-1610M/1610S



TRM-810S



TRM-410S

OS	Linux	Linux	Linux
Supported Compression	H.265, H.264, MJPEG, WiseStream	H.265, H.264, MJPEG, WiseStream	H.265, H.264, MJPEG, WiseStream
Max. Recording Bit Rate	128Mbps	80Mbps	50Mbps
Max # of Cameras	16 (4PoE, M12 : TRM-1610M / RJ-45 : TRM-1610S)	8 (8 PoE, RJ-45)	4 (4 PoE, RJ-45)
Internal Storage	Up to 2 SATA (Front-Swap) Max. 4TB (HDD, SSD)	Up to 2 SATA (Front-Swap) Max. 2TB (HDD) / Max. 4TB (SSD)	Up to 2 SATA (Front-Swap) Max. 2TB (HDD) / Max. 4TB (SSD)
External Storage	-	-	-
RAID	RAID 1	RAID 1	-
Hot Swap	Yes (RAID 1)	Yes (RAID 1)	-
Network Viewer Software	SSM Transportation, WebViewer, Wisenet Mobile	SSM Transportation, WebViewer, Wisenet Mobile	SSM Transportation, WebViewer, Wisenet Mobile
Local Monitor	HDMI (Up to 4K), VGA	HDMI (Up to 4K), VGA	HDMI (Up to 4K), VGA
Camera Support	SUNAPI, ONVIF	SUNAPI, ONVIF	SUNAPI, ONVIF
Features	<ul style="list-style-type: none"> • GPS supported • Wi-fi supported • Standards approval for transportation (EN50155) • Wide operating temperature range -40°C ~ +70°C (-40°F ~ +158°F) 	<ul style="list-style-type: none"> • GPS supported • Wi-fi supported • Standards approval for transportation (EN50155) • Wide operating temperature range -25°C to +55°C (-13°F to +131°F) 	<ul style="list-style-type: none"> • GPS supported • Wi-fi supported • Standards approval for transportation (EN50155) • Wide operating temperature range -25°C to +55°C (-13°F to +131°F)



SRN-1673S



SRN-873S



SRN-473S

OS	Linux	Linux	Linux
Supported Compression	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
Max. Recording Bit Rate	80Mbps	64Mbps	32Mbps
Max # of Cameras	16	8	4
Internal Storage	Up to 4 SATA	Up to 2 SATA	Up to 1 SATA
External Storage	1 e-SATA	1 e-SATA	-
RAID	-	-	-
Hot Swap	-	-	-
Network Viewer Software	SSM, SmartViewer, Wisenet Mobile	SSM, SmartViewer, Wisenet Mobile	SSM, SmartViewer, Wisenet Mobile
Local Monitor	HDMI / VGA	HDMI / VGA	HDMI / VGA
Camera Support	SUNAPI, ONVIF	SUNAPI, ONVIF	SUNAPI, ONVIF
Features	<ul style="list-style-type: none"> • Plug & play by 16 PoE / PoE+ Ports • WebViewer supported • HDD removable (Easy install) 	<ul style="list-style-type: none"> • Plug & play by 8 PoE / PoE+ Ports • WebViewer supported 	<ul style="list-style-type: none"> • Plug & play by 4 PoE / PoE+ Ports • WebViewer supported

Encoder



SPE-1610



SPE-410



SPE-110



SPE-101

	SPE-1610	SPE-410	SPE-110	SPE-101
Max. # of Cameras	16	4	1	1
Supported Compression	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG, MPEG-4
Max. Resolution	4M, 1920 x 1080 704 x 480 / 704 x 576 (NTSC / PAL)	4M, 1920 x 1080 704 x 480 / 704 x 576 (NTSC / PAL)	4M, 1920 x 1080 704 x 480 / 704 x 576 (NTSC / PAL)	704 x 480 / 704 x 576 (NTSC / PAL)
Max. Frame Rate per Channel	4M@15fps 1920 x 1080, 704 x 480, 704 x 576@30fps	4M@15fps 1920 x 1080, 704 x 480, 704 x 576@30fps	4M@15fps 1920 x 1080, 704 x 480, 704 x 576@30fps	30/25fps (NTSC / PAL)
Bi-Directional Audio	Yes	Yes	-	-
RS-485	1	1	RS-485 / 422	1
Alarm I/O	16 / 4	4 / 2	-	-
SD Card	-	-	-	-
ONVIF	Yes	Yes	Yes	Yes
Power	12V DC	12V DC, PoE	12V DC / PoE	12V DC / PoE

Decoder



SPD-1660R



SPD-260B



SPD-151



SPD-150

	SPD-1660R	SPD-260B	SPD-151	SPD-150
Video Out	HDMI (16ea), VGA (16ea)	HDMI (2ea), VGA (2ea)	HDMI, VGA, BNC	HDMI, VGA, BNC
Resolution	HDMI up to 4K, VGA up to 1080p	HDMI up to 4K, VGA up to 1080p	HDMI up to 4K, VGA up to 1080p	HDMI up to 4K, VGA up to 1080p
Display	1 / 4 / 6 / 8 / 9 / 13 / 16 / 2V / 3V (Up to 20 layouts and sequence)	1 / 4 / 6 / 8 / 9 / 13 / 16 / 2V / 3V (Up to 20 layouts and sequence)	(HDMI) 1 / 2x2 / 3x3 / 4x4 / 5x5 / 6x6 (32Ch Only) (VGA) 1 / 2x2 / 3x3 / 4x4 (BNC) 1 Tile merge support	(HDMI) 1 / 4 / 6 / 8 / 9 / 13 / 16 / 25 / 36(32) / 2V / 3V (VGA) 1 / 4 / 6 / 8 / 9 / 13 / 16 / 2V / 3V Spilt mode, Hallway View mode (Up to 20 layouts and sequence)
Power	100 ~ 240V AC	-	12V DC, PoE	12V DC, PoE
Additional Features	Monitor merge - 1 x 2, 2 x 1, 2 x 2, 2 x 3, 3 x 2, 2 x 4, 2 x 5, 4 x 2, 3 x 3, 3 x 4, 4 x 3, 4 x 4, 3 x 5, 5 x 3, 5 x 2 SSM, WebViewer supported	Board of SPD-1660R	Up to 49CH, H.265 / H.264 / MJPEG codec, Layout Sequence Support Management using Web-Viewer	Up to 49CH, H.265 / H.264 / MJPEG codec, Layout sequence support

iSCSI External Storage



SRB-160S

OS	Linux
Max. recording bandwidth	800Mbps
Internal HDD	Max. 16 Hot swappable HDDs (Max. 128TB) * RAID 0 mode
RAID	0 / 10 / 5 / 6, RAID5+ Hotstandby
iSCSI volume	Max. 8 NVRs can be connected
Setup	One-touch setup of RAID volume Setup via webpage & remote storage management S/W
Redundancy	Network failover, Load balancing
Mechanical	4 Gigabit ethernet ports 3U chassis with front key-lock
Features	Dual SMPS for high reliability

Reader



R10/R40/RK40 (Elite / Mobile)



U90



BioEntry W2



5427CK



BioMini

	R10/R40/RK40 (Elite / Mobile)	U90	BioEntry W2	5427CK	BioMini
Frequency	13.56Mhz	902 ~ 928 MHz	13.56Mhz	13.56Mhz	-
Communication	Wiegand / Clock & Data(RK40/RK40 Elite/RK40 Mobile)	Wiegand	Wiegand	USB 2.0	USB 2.0
Compatible Access Cards	R10/R40/RK40 : iCLASS SEOS, MIFARE (Classic) / DESFire EV1 CSN R10/R40/RK40 Elite : iCLASS SEOS Elite, MIFARE (Classic) / DESFire EV1 CSN R10/R40/RK40 Mobile : Mobile ID, MIFARE (Classic) / DESFire EV1 CSN	UHF Card	iCLASS SE, MIFARE (Classic) / DESFire EV1 CSN	iCLASS SE / SEOS Elite, MIFARE (Classic) / DESFire EV1 CSN	-
Keypad	Yes (4 x 3) (RK40/RK40 Elite/RK40 Mobile)	-	-	-	-
Operating Voltage Range	5-16V DC	12V DC or 24V DC	12V DC	USB 2.0	USB 2.0
Operating Temperature	-35°C ~ +65°C (-31°F ~ +150°F)	-35°C ~ +65°C (-31°F ~ +150°F)	-20°C ~ +50°C (-4°F ~ +122°F)	0°C ~ +70°C (+32°F ~ +158°F)	-10°C ~ +50°C (+14°F ~ +122°F)
Ingress Protection	IP55	IP65	IP67	IP54	-
Impact Protection	-	-	IK08	-	-
Panel Connection	Pigtail	Pigtail	Pigtail	-	-
Color	Black	Black	Dark Gray	Black	Dark Gray
Max. User	-	-	500,000 (1 : 1), 100,000 (1 : N)	-	-
Max. Fingerprint Template	-	-	1,000,000 (1 : 1), 200,000 (1 : N)	-	-
Ethernet	-	-	10/100Mbps	-	-

Controller



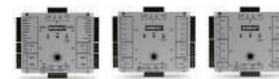
V2000



EH400K



V1000



V1000/V200/V300

	V2000	EH400K	V1000	V1000/V200/V300
Communication Port	Ethernet (10/100)	Ethernet (10/100)	Ethernet (10/100) / RS-485	RS-485
Reader interface	2ea	1ea	-	2ea (V100)
Max. expansion board	-	-	32ea	-
Max. card holders	250,000	125,000	250,000	-
Max. Event buffers	99,999	99,999	99,999	-
Input port	2ea	4ea	2ea	4ea/16ea/2ea
Output port	4ea	2ea	2ea	4ea/2ea/12ea
Operating Current	210mA / 12V DC	-	-	-
Operating Temperature	0°C ~ +50°C (+32°F ~ +122°F)			
PoE	-	802.af	-	-
Color	Gray	Black	Gray	Gray

Standalone



Face station2

	Face station2
Biometric	Face
RFID Card	iCLASS SE, MIFARE (Classic) / DESFire EV1 CSN
CPU	1.4 GHz Quad
Memory	8GB Flash + 1GB RAM
LCD	4" color TFT
IR LED	140ea
Operating Temperature	-20°C ~ 50°C (+4°F ~ +122°F)
Power	24V DC / 2.5A
Detection	LFD (Live Face detection)
Max. User	30,000 (1 : 1), 3,000 (1 : N)
Wiegand	1ea input / output
Relay	1ea

Card



iCLASS SEOS (Elite)



Mobile ID



UHF

- | | | |
|---|---|---|
| <ul style="list-style-type: none"> • 13.56Mhz • Compatible with R10 / R40 / RK40 (Elite) • Encoded by Hanwha Techwin unique format (Elite) | <ul style="list-style-type: none"> • Bluetooth / NFC via mobile device (Android, IOS) • Compatible with R10 Elite mobile / R40 Elite mobile / RK40 Elite mobile | <ul style="list-style-type: none"> • 902 ~ 928 MHz • Long range card (3~5m) |
|---|---|---|

Appliance



SSA-A100

Supported Platform	Windows 10 IoT 2016 Enterprise entry
Installed S/W	SSA-M1000 (up to 32doors)
Processor	Intel celeron J3455 quad core 1.5 GHz to 2.3 GHz burst
RAM	SODIMM 8GB
Storage	120GB SSD
USB Storage	2x Front USB 3.0, 2 x Rear USB 3.0
Graphics	Intel HD graphics 500
Power Supply	19V, 65W
Ethernet	10/100/1000 Mbps ethernet
Connectivity	Wireless-AC 3168, IEEE 802.11ac 1x1 + Bluetooth v4.2
Dimension (WxHxD)	115 x 51 x 111mm (4.53" x 2.01" x 4.37")

Peripheral



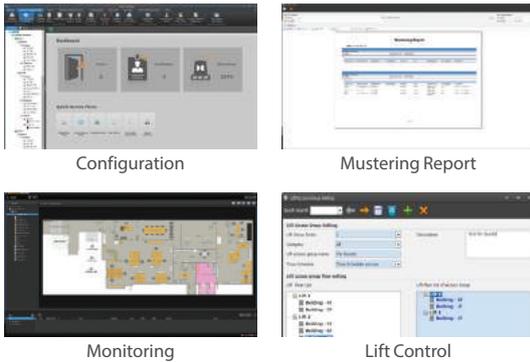
SSA-X300

Controller/ Interface On Board	Max. 2ea Boards in enclosure
Input Power	100 ~ 240V AC (50Hz/60Hz) / 2.0A
Power Consumption	13.5V ±5%, 4.7A (Strobe, Horn 12.5V DC ±5%)
Charging Current	700mA
Back up Battery	12V, 18Ah, rechargeable
SMPS Status Transmission	AC loss, Battery fail (Non battery)
AC Input Protection	by Fuse in input port
Operation Temperature	0°C ~ +45°C (+32°F ~ +113°F)
Case Lock	Lock on front door with keys
Dimension (mm)	410 x 410 x 97mm (16.14" x 16.14" x 3.82")

Wisenet ACS Control Software

Wisenet ACS Control Software is access control management software and can be integrated with Wisenet SSM for integrated Monitoring solution. It is highly scalable up to unlimited doors system and has robust software architecture.

Key Features

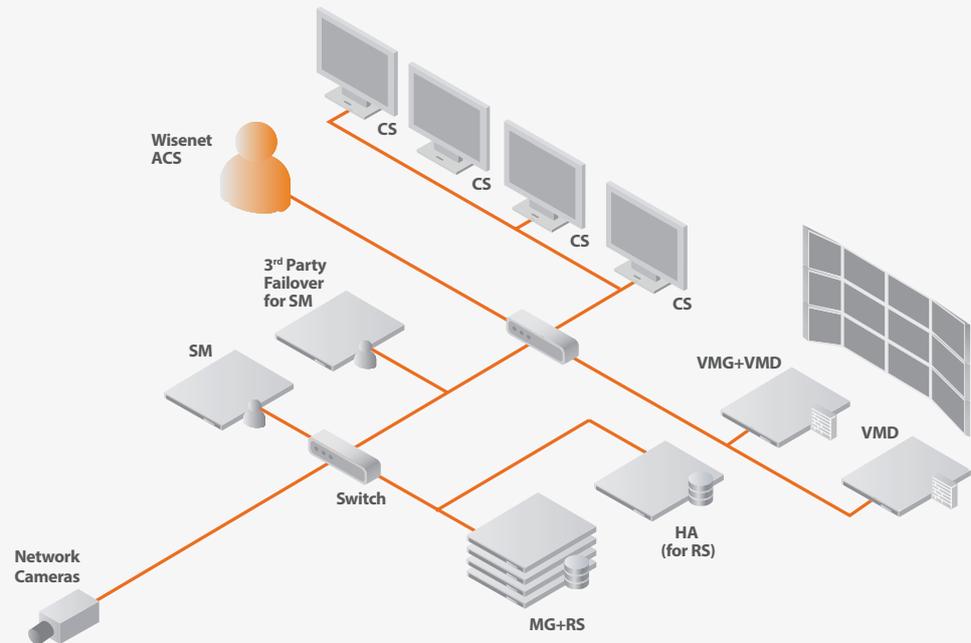


Access Control	<ul style="list-style-type: none"> Device auto discovery Cardholder management Batch uploads Card (s) pre-registration Device maintenance Unlimited access groups, Time schedules Area / Zone management Biometric readers (FP) Lift Control (with V300)
Monitoring	<ul style="list-style-type: none"> Real time access events & alarm monitoring Graphic maps Remote door management (Close / Open) I/O monitoring Mustering Event filtering for monitoring Control door monitoring / Management permissions per user group Create multiple design templates
Card Design and Printing	<ul style="list-style-type: none"> Auto-fill card holder data from system database Print cards
Fire Groups	<ul style="list-style-type: none"> Create firegroups for each fire sensor input
Advanced Reporting	<ul style="list-style-type: none"> Extensive reporting options Export to multiple formats (excel, pdf, word etc.) Full Integration with Hanwha Techwin's VMS, SSM Review video of the access events & alarms Real-time event & alarm notification to SSM
Video Integration with SSM	<ul style="list-style-type: none"> User group & user privileges Manual & scheduled database backup Database restore
Maintenance	<ul style="list-style-type: none"> Data export & import Custom fields Auditing & user activity logs
System	<ul style="list-style-type: none"> Up to 32doors (standard), 256doors (professional), Unlimited doors (enterprise) Very simple and intuitive user interface Highly scalable

Wisenet ACS



Integration with Wisenet SSM



Camera



HCB-7000



HCO-7070R



HCO-7010R/20R/30R



HCD-7070R

	HCB-7000	HCO-7070R	HCO-7010R/20R/30R	HCD-7070R
Resolution	4MP	4MP	4MP	4MP
Imaging Device	1/3" 4M CMOS	1/3" 4M CMOS	1/3" 4M CMOS	1/3" 4M CMOS
Horizontal Resolution	2560 x 1440	2560 x 1440	2560 x 1440	2560 x 1440
Min. Illumination	Color : 0.16Lux B/W : 0.009Lux	Color : 0.16Lux B/W : 0Lux (IR LED on)	Color : 0.26Lux (HCO-7010R) 0.27Lux (HCO-7020R/7030R) B/W : 0Lux (IR LED on)	Color : 0.16Lux B/W : 0Lux (IR LED on)
Lens	-	3.2 ~ 10mm (3.1x) V/F (F1.6)	2.8mm fixed (F1.8) (HCO-7010R) 4.0mm fixed (F2.0) (HCO-7020R) 6.0mm fixed (F2.0) (HCO-7030R)	3.2 ~ 10mm (3.1x) V/F (F1.6)
IR Viewable Length	-	30m (98.43ft)	20m (65.62ft) (HCO-7010R) 25m (82.02ft) (HCO-7020R) 30m (98.43ft) (HCO-7030R)	20m (65.62ft)
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-7010R) H : 78.22° / V : 41.21° / D : 87.91° (HCO-7020R) H : 49.01° / V : 27.61° / D : 55.6° (HCO-7030R)	H : 93.48°(Wide) ~ 29.44°(Tele) / V : 50.47°(Wide) ~ 16.64°(Tele) / D : 112.53°(Wide) ~ 33.7°(Tele)
Focus Control	Manual	Manual	Fixed	Manual
Pan / Tilt / Rotate	-	-	-	0° ~ 350° / 0° ~ 63° / 0° ~ 355°
Day & Night	True (ICR)	True (ICR)	True (ICR)	True (ICR)
Backlight Compensation	BLC / HLC / DWDR	BLC / HLC / DWDR	BLC / HLC / DWDR	BLC / HLC / DWDR
Digital Noise Reduction	2D DNR	2D DNR	2D DNR	2D DNR
Motion detection	Support	Support	Support	Support
Privacy Masking	2 Zones	2 Zones	2 Zones	2 Zones
Alarm I/O	MD Output 1	MD Output 1	-	MD Output 1
Communication	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)
Environment Protection	-	IP66, IK10	IP66, IK10	-
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)
Power	Max. 3.6W (24V AC & 12V DC)	Max. 5.8W (24V AC & 12V DC)	Max. 5.0W (12V DC)	Max. 5.8W (24V AC & 12V DC)
Dimensions (WxHxD) / Weight	68.4 x 59.6 x 92.7mm (2.69" x 2.35" x 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)	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)	Video Transmission up to 500m (5C2V Coaxial Cable)



HCD-7010R/20R/30R



HCV-7070R



HCV-7010R/20R/30R



HCB-6001



HCB-6000

Resolution	4MP	4MP	4MP	2MP	2MP
Imaging Device	1/3" 4M CMOS	1/3" 4M CMOS	1/3" 4M CMOS	1/2.8" 2M CMOS	1/2.8" 2M CMOS
Horizontal Resolution	2560 x 1440	2560 x 1440	2560 x 1440	1920 x 1080	1920 x 1080
Min. Illumination	Color : 0.26Lux (HCD-7010R) 0.27Lux (HCD-7020R/7030R) B/W : 0Lux (IR LED on)	Color : 0.16Lux B/W : 0Lux (IR LED on)	Color : 0.26Lux (HCV-7010R) 0.27Lux (HCV-7020R/7030R) B/W : 0Lux (IR LED on)	Color : 0.09Lux B/W : 0.009Lux	Color : 0.09Lux B/W : 0.009Lux
Lens	2.8mm fixed (F1.8) (HCD-7010R) 4.0mm fixed (F2.0) (HCD-7020R) 6.0mm fixed (F2.0) (HCD-7030R)	3.2 ~ 10mm (3.1x) V/F (F1.6)	2.8mm fixed (F1.8) (HCV-7010R) 4.0mm fixed (F2.0) (HCV-7020R) 6.0mm fixed (F2.0) (HCV-7030R)	-	-
IR Viewable Length	20m (65.62ft) (HCD-7010R) 25m (82.02ft) (HCD-7020R) 30m (98.43ft) (HCD-7030R)	30m (98.43ft)	20m (65.62ft) (HCV-7010R) 25m (82.02ft) (HCV-7020R) 30m (98.43ft) (HCV-7030R)	-	-
Angular Field of View	H : 107.48° / V : 59.67° / D : 122.01° (HCD-7010R) H : 78.22° / V : 41.21° / D : 87.91° (HCD-7020R) H : 49.01° / V : 27.61° / D : 55.6° (HCD-7030R)	H : 93.48°(Wide) ~ 29.44°(Tele) / V : 50.47°(Wide) ~ 16.64°(Tele) / D : 112.53°(Wide) ~ 33.7°(Tele)	H : 107.48° / V : 59.67° / D : 122.01° (HCV-7010R) H : 78.22° / V : 41.21° / D : 87.91° (HCV-7020R) H : 49.01° / V : 27.61° / D : 55.6° (HCV-7030R)	-	-
Focus Control	Fixed	Manual	Fixed	Simple Focus	Manual
Pan / Tilt / Rotate	0° ~ 350° / 0° ~ 67° / 0° ~ 355°	0° ~ 350° / 0° ~ 67° / 0° ~ 355°	0° ~ 350° / 0° ~ 67° / 0° ~ 355°	-	-
Day & Night	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (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
Communication	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
Environment Protection	-	IP66, IK10	IP66, IK10	-	-
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)
Power	Max. 5.0W (12V DC)	Max. 5.8W (24V AC & 12V DC)	Max. 5.0W (12V DC)	Max. 6W (24V AC & 12V DC)	Max. 3.5W (24V AC & 12V DC)
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 × 91.7mm (Ø4.74" × 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 transmission up to 500m (5C2V Coaxial Cable)	Video transmission up to 500m (5C2V Coaxial Cable)



HCZ-6320



HCO-6080R



HCO-6070R



HCO-6020R



HCD-6080R/6070R

Resolution	2MP	2MP	2MP	2MP	2MP
Imaging Device	1/2.8" 2.38M CMOS	1/2.8" 2M CMOS	1/2.8" 2M CMOS	1/2.8" 2M CMOS	1/2.8" 2M CMOS
Horizontal Resolution	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
Min. Illumination	Color : 0.2Lux B/W : 0.01Lux	Color : 0.11Lux B/W : 0Lux (IR LED on)	Color : 0.11Lux B/W : 0Lux (IR LED on)	Color : 0.17Lux B/W : 0Lux (IR LED on)	Color : 0.11Lux B/W : 0Lux (IR LED on)
Lens	4.44 ~ 142.6mm (Optical 32x) F1.6(Wide) / F4.4(Tele)	3.2 ~ 10mm (3.1x) motorized V/F (F1.6)	3.2 ~ 10mm (3.1x) V/F (F1.6)	4mm fixed (F1.6)	3.2 ~ 10mm (3.1x) motorized V/F (F1.6) (HCD-6080R) V/F (F1.6) (HCD-6070R)
IR Viewable Length	-	30m (98.43ft)	30m (98.43ft)	30m (98.43ft)	20m (65.62ft)
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)
Focus Control	Auto / Manual / One push	Simple focus (motorized V/F) / Manual	Manual	Manual	Simple focus (motorized V/F) / Manual (HCD-6080R) Manual (HCD-6070R)
Pan / Tilt / Rotate	-	-	-	-	0° ~ 350° / 0° ~ 67° / 0° ~ 355°
Day & Night	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)
Backlight Compensation	WDR (120dB)	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
Communication	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)
Environment Protection	-	IP66, IK10	IP66, IK10	IP66	-
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)
Power	Max. 6W (12V DC)	Max. 6.0W (24V AC & 12V DC)	Max. 6.0W (24V AC & 12V DC)	Max. 4.2W (12V DC)	Max 6.0W (24V AC & 12V DC) (HCD-6080R) Max 4.2W (24V AC & 12V DC) (HCD-6070R)
Dimensions (WxHxD) / Weight	72.0 x 60 x 137mm (2.83" x 2.36" x 5.39") 476g (1.05 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 transmission up to 500m (5C2V Coaxial Cable)			



NEW



NEW



HCD-6020R

HCD-6010

HCV-6080R/6070R

HCP-6320HA/6320A

Resolution	2MP	2MP	2MP	2MP
Imaging Device	1/2.8" 2M CMOS	1/2.8" 2M CMOS	1/2.8" 2M CMOS	1/2.8" 2.38M CMOS
Horizontal Resolution	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
Min. Illumination	Color : 0.17Lux B/W : 0Lux (IR LED on)	Color : 0.27Lux B/W : 0.017 Lux	Color : 0.11Lux B/W : 0Lux (IR LED on)	Color : 0.2Lux B/W : 0.01Lux
Lens	4mm fixed (F1.6)	2.8mm fixed (F2.0)	3.2 ~ 10mm (3.1x) motorized V/F (F1.6) (HCV-6080R) V/F (F1.6) (HCV-6070R)	4.44 ~ 142.6mm (Optical 32x) F1.6(Wide) / F4.4(Tele)
IR Viewable Length	20m (65.62ft)	-	30m (98.43ft)	-
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)
Focus Control	Manual	Manual	Simple focus (motorized V/F) / Manual (HCV-6080R) Manual (HCV-6070R)	Auto / Manual / One push
Pan / Tilt / Rotate	-	-	0° ~ 350° / 0° ~ 67° / 0° ~ 355°	360° Endless / 210° (-15° ~ 195°) / -
Day & Night	True (ICR)	True (ICR)	True (ICR)	True (ICR)
Backlight Compensation	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)
Digital Noise Reduction	SSNRIV	SSNRIV	SSNRIV	SSNRIII
Motion detection	Support	Support	Support	Support
Privacy Masking	8 Zones	8 Zones	8 Zones	32 Zones
Alarm I/O	-	-	MD Output 1	4 / 2 (Relay)
Communication	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
Environment Protection	-	-	IP66, IK10	IP66, IK10 (HCP-6320HA), IK10 (With SHP-3701H) (HCP-6320A)
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)
Power	Max. 4.2W (12V DC)	Max. 3.5W (12V DC)	Max. 4.2W (24V AC & 12V DC)	Max. 24.0W / 65.0W - Heater off / on (24V AC) (HCP-6320HA) Max. 20.0W (24V AC) (HCP-6320A)
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)
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)	Defog



HCP-6230H/6230



SCB-6003



SCO-6083R



SCO-6023R

Resolution	2MP	2MP	2MP	2MP
Imaging Device	1/2.8" 2.38M CMOS	1/3" 2M CMOS	1/3" 2M CMOS	1/3" 2M CMOS
Horizontal Resolution	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
Min. Illumination	Color : 0.2Lux B/W : 0.01Lux	Color : 0.04Lux B/W : 0.004Lux	Color : 0.11Lux B/W : 0Lux (IR LED on)	Color : 0.25Lux B/W : 0Lux (IR LED on)
Lens	4.44 ~ 101.2mm (Optical 23x) F1.6(Wide) / F3.63(Tele)	-	2.8 ~ 12mm (4.3x) V/F (F1.4)	4mm fixed (F2.1)
IR Viewable Length	-	-	30m (98.43ft)	20m (65.62ft)
Angular Field of View	H : 62.8°(Wide) ~ 3.14°(Tele) / V : 36.8°(Wide) ~ 1.76°(Tele)	-	H : 102°(Wide) ~ 32.2°(Tele) / V : 54°(Wide) ~ 18.2°(Tele) / D : 121°(Wide) ~ 38°(Tele)	H : 80.7° / V : 43.5° / D : 95.8°
Focus Control	Auto / Manual / One push	-	Manual	Fixed
Pan / Tilt / Rotate	360° Endless / 210° (-15° ~ 195°) / -	-	-	-
Day & Night	True (ICR)	True (ICR)	True (ICR)	True (ICR)
Backlight Compensation	WDR (120dB)	BLC / HLC / DWDR	BLC / HLC / DWDR	BLC / HLC / DWDR
Digital Noise Reduction	SSNR III	SSNR IV	SSNR IV	SSNR IV
Motion detection	Support	Support	Support	Support
Privacy Masking	32 Zones	4 Zones	4 Zones	4 Zones
Alarm I/O	4 / 2 (Relay)	0 / 1, External D/N 1	0 / 1	-
Communication	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	AHD : ACP (AHD Coax Protocol), CVBS : Pelco-C (Coaxitron)	AHD : ACP (AHD Coax Protocol), CVBS : Pelco-C (Coaxitron)
Environment Protection	IP66, IK10 (HCP-6230H), IK10 (With SHP-3701H) (HCP-6230)	-	IP66, IK10	IP66
Operating Temperature	-50°C ~ +55°C (-58°F ~ +131°F) (HCP-6230H), -10°C ~ +55°C (+14°F ~ +131°F) (HCP-6230)	-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)
Power	Max. 24.0W / 65.0W - Heater off / on (24V AC) (HCP-6230H) Max. 20.0W (24V AC) (HCP-6230)	Max. 4.2W (24V AC & 12V DC)	Max. 6.0W (24V AC & 12V DC)	Max. 4.2W (12V DC)
Dimensions (WxHxD) / Weight	Ø220.0 x 293.6mm (Ø8.66" x 11.56") 3.3Kg (7.28 lb) (HCP-6230H), Ø152.0 x 218.0mm (Ø5.98" x 8.58") 2.2Kg (4.85 lb) (HCP-6230)	68.4 x 59.6 x 92.7mm (2.69" x 2.35" x 3.65") 175.5g (0.39 lb)	Ø78.0 x 260.0mm (Ø3.07" x 10.24") (Without sunshield) 922g (2.03 lb)	Ø58.6 x 165.2mm (Ø2.31" x 6.50") (Without Sunshield) 208g (0.46 lb)
Additional Features	Defog	Defog	Defog	Defog



SCD-6083R



SCD-6023R



SCD-6013



SCV-6083R



SCV-6023R

Resolution	2MP	2MP	2MP	2MP	2MP
Imaging Device	1/3" 2M CMOS	1/3" 2M CMOS	1/3" 2M CMOS	1/3" 2M CMOS	1/3" 2M CMOS
Horizontal Resolution	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
Min. Illumination	Color : 0.11Lux B/W : 0Lux (IR LED on)	Color : 0.25Lux B/W : 0Lux (IR LED on)	Color : 0.1Lux B/W : 0.01Lux	Color : 0.11Lux B/W : 0Lux (IR LED on)	Color : 0.25Lux B/W : 0Lux (IR LED on)
Lens	2.8 ~ 12mm (4.3x) V/F (F1.4)	4mm fixed (F 2.1)	2.8mm fixed (F1.8)	2.8 ~ 12mm (4.3x) V/F (F1.4)	4mm fixed (F 2.1)
IR Viewable Length	20m (65.62ft)	20m (65.62ft)	-	30m (98.43ft)	20m (65.62ft)
Angular Field of View	H : 102°(Wide) ~ 32.2°(Tele) / V : 54°(Wide) ~ 18.2°(Tele) / D : 121°(Wide) ~ 38°(Tele)	H : 80.7° / V : 43.5° / D : 95.8°	H : 108.7° / V : 60.6° / D : 125.4°	H : 102°(Wide) ~ 32.2°(Tele) / V : 54°(Wide) ~ 18.2°(Tele) / D : 121°(Wide) ~ 38°(Tele)	H : 80.7° / V : 43.5° / D : 95.8°
Focus Control	Manual	Fixed	Fixed	Manual	Fixed
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° ~ 67° / 0° ~ 355°
Day & Night	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)
Backlight Compensation	BLC / HLC / DWDR	BLC / HLC / DWDR	BLC / HLC / DWDR	BLC / HLC / DWDR	BLC / HLC / DWDR
Digital Noise Reduction	SSNRIV	SSNRIV	SSNRIV	SSNRIV	SSNRIV
Motion detection	Support	Support	Support	Support	Support
Privacy Masking	4 Zones	4 Zones	4 Zones	4 Zones	4 Zones
Alarm I/O	0 / 1	-	-	0 / 1	-
Communication	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)	AHD : ACP (AHD Coax Protocol), CVBS : Pelco-C (Coaxitron)
Environment Protection	-	-	-	IP66, IK10	IP66, IK10
Operating Temperature	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -10°C (+14°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -10°C (+14°F)
Power	Max. 4.2W (24V AC & 12V DC)	Max. 4.2W (12V DC)	Max. 2.5w (12V DC)	Max. 4.2W (24V AC & 12V DC)	Max. 4.2W (12V DC)
Dimensions (WxHxD) / Weight	Ø119.8 x 98.8mm (Ø4.72" x 3.89") 304g (0.67 lb)	Ø110.0 x 86.0mm (Ø4.33" x 3.39") 242g (0.53 lb)	Ø110.0 x 86.0mm (Ø4.33" x 3.39") 231g (0.51 lb)	Ø137.0 x 106.1mm (Ø5.39" x 4.18") 716g (1.58 lb)	Ø137.0 x 94.0mm (Ø5.39" x 3.70") 560g (1.23 lb)
Additional Features	Defog	Defog	Defog	Defog	Defog

DVR



HRD-1642

HRD-1641

HRD-842

HRD-841

HRD-840

HRD-442

HRD-440

Channel	16CH	16CH	8CH	8CH	8CH	4CH	4CH
Live (NTSC / PAL)	480fps / 400fps	480fps / 400fps	240fps / 200fps	240fps / 200fps	240fps / 200fps	120fps / 100fps	120fps / 100fps
Recording Compression	H.264	H.264	H.264	H.264	H.264	H.264	H.264
Max. Recording (NTSC / PAL)	240fps / 200fps@2560 x 1440 480fps / 400fps@1920 x 1080	240fps / 200fps@2560 x 1440 480fps / 400fps@1920 x 1080	120fps / 100fps@2560 x 1440 240fps / 200fps@1920 x 1080	120fps / 100fps@2560 x 1440 240fps / 200fps@1920 x 1080	120fps / 100fps@2560 x 1440 240fps / 200fps@1920 x 1080	60fps / 50fps@2560 x 1440 120fps / 100fps@1920 x 1080	60fps / 50fps@2560 x 1440 120fps / 100fps@1920 x 1080
Video Inputs	16CH : AHD, NTSC, PAL TVI, CVI	16CH : AHD, NTSC, PAL TVI, CVI	8CH : AHD, NTSC, PAL TVI, CVI	8CH : AHD, NTSC, PAL TVI, CVI	8CH : AHD, NTSC, PAL TVI, CVI	4CH : AHD, NTSC, PAL HDTV, HDCVI	4CH : AHD, NTSC, PAL TVI, CVI
Audio I/O	16CH (Built-in 4CH) / CH	4CH / 1CH	8CH (Built-in 4CH) / 1CH	4CH / 1CH	1CH / 1CH	4CH / 1CH	1CH / 1CH
Alarm I/O	16/4	16/4	8/4	8/4	4/1	4/1	4/1
Internal Storage	Up to 8 SATA HDDs	Up to 2 SATA HDDs	Up to 4 SATA HDDs	Up to 2 SATA HDDs	Up to 1 SATA HDD	Up to 2 SATA HDDs	Up to 1 SATA HDD
Monitors	VGA	Yes	Yes	Yes	Yes	Yes	Yes
	HDMI	Yes	Yes	Yes	Yes	Yes	Yes
	Spot Composite	1CH (BNC)	1CH (BNC)				
USB	2 ports	2 ports					
e-SATA	2 External SATA ports	1 External SATA port	2 External SATA Ports	1 External SATA port	-	-	-
Network	Remote Users	Search 3 / Live Unicast 10 / Live Multicast 20	Search 3 / Live Unicast 10 / Live Multicast 20	Search 3 / Live Unicast 10 / Live Multicast 20	Search 3 / Live Unicast 10 / Live Multicast 20	Search 3 / Live Unicast 10 / Live Multicast 20	Search 3 / Live Unicast 10 / Live Multicast 20
	Transmission	4MP, 1080p, 720p, WD1, 4CIF, CIF	4MP, 1080p, 720p, WD1, 4CIF, CIF	4MP, 1080p, 720p, WD1, 4CIF, 2CIF, CIF	4MP, 1080p, 720p, WD1, 4CIF, CIF	4MP, 1080p, 720p, WD1, 4CIF, CIF	4MP, 1080p, 720p, WD1, 4CIF, CIF
	Monitoring	SSM, WebViewer, SmartViewer, Mobile Viewer	SSM, WebViewer, SmartViewer, Mobile Viewer				
Coax Protocol	NTSC/PAL : Pelco-C (Coaxitron) AHD : ACP (AHD Coax Protocol)	NTSC/PAL : Pelco-C (Coaxitron) AHD : ACP (AHD Coax Protocol)	NTSC/PAL : Pelco-C (Coaxitron) AHD : ACP (AHD Coax Protocol)	NTSC/PAL : Pelco-C (Coaxitron) AHD : ACP (AHD Coax Protocol)	NTSC/PAL : Pelco-C (Coaxitron) AHD : ACP (AHD Coax Protocol)	NTSC/PAL : Pelco-C (Coaxitron), AHD : ACP (AHD Coax Protocol)	NTSC/PAL : Pelco-C (Coaxitron), AHD : ACP (AHD Coax Protocol)
Serial Interface	RS-485(Half-duplex)	RS-485(Half-duplex)	RS-485(Half-duplex)	RS-485(Half-duplex)	RS-485(Half-duplex)	RS-485(Half-duplex)	RS-485(Half-duplex)

PERIPHERAL

LED Monitor



SMT-4033



SMT-3233



SMT-2233



SMT-1935



SMT-1931



SMT-1914

	SMT-4033	SMT-3233	SMT-2233	SMT-1935	SMT-1931	SMT-1914
Screen Size	40"	32"	22"	19"	19"	19"
Resolution (pixels HxV)	1,920 x 1,080	1,920 x 1,080	1,920 x 1,080	1,280 x 1,024	1,366 x 768	1,280 x 1,024
Video In/Out	1	1	2/2	2/2	2/2	-
VGA	1	1	1	1	1	1
DVI / HDMI	1 / 1	1 / 1	0 / 1	0 / 1	0 / 1	-
USB	-	-	-	-	-	-
Audio In (Stereo)	1	1	2	2	2	-
Contrast Ratio	5,000 : 1	1,200 : 1	1,000 : 1	1,000 : 1	1,000 : 1	1,000 : 1
Aspect Ratio	16 : 9	16 : 9	16 : 9	4 : 3	16 : 9	4 : 3
Response Time	9.5ms	8ms	5ms	5ms	5ms	5ms
Brightness	350cd/m ²	350cd/m ²	250cd/m ²	250cd/m ²	250cd/m ²	250cd/m ²
Tempered Glass Screen	-	-	Yes	Yes	Yes	Yes
Picture In Picture	-	-	-	-	-	Yes
Built-in Speakers	Yes	Yes	Yes	Yes	Yes	-
Stand	Optional	Optional	Standard	Standard	Standard	Standard
Power	100V ~ 240V AC					
Additional Features	Remote Controller	Remote Controller	-	-	-	-

Controller



SPC-7000



SPC-2000



SPC-2010



SPC-1010

	SPC-7000	SPC-2000	SPC-2010	SPC-1010
Features	<p>Network/Analog Cameras / NVR / DVR / SSM Controller</p> <ul style="list-style-type: none"> • 5" TFT Touch LCD • Network Camera / SSM / Analog Camera / DVR Control • User-Friendly Design and Easy-to-Use Keypad • 3 Axis Joystick to Control PTZ Function • Detachable Joystick / Jogshuttle for Universe Use (Right / Left Hand Use) • USB Interface Support (1ea for SSM, 1ea for Image Snapshot / Upgrade) • Fast Camera-Tile Mapping, Config Import / Export 	<p>Network Controller</p> <ul style="list-style-type: none"> • Superior System Compatibility • 3D Joystick Control • Quick and Easy Installation • SSM Support 	<p>PTZ / DVR System Controller</p> <ul style="list-style-type: none"> • Control up to 255 PTZ Cameras / DVRs • Built-in 3 Axis Twist Zoom Joystick • Built-in Jog Shuttle • 16 x 2 Character LCD Display • RS-485 and RS-422 Interface 	<p>PTZ Control Keyboard</p> <ul style="list-style-type: none"> • 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	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		
Varifocal Lens	SLA-M8550D		CS	1/2.8"	3Megapixel	8.5 ~ 50mm (0.33" ~ 1.97")	9.4 ~ 10.7mm (0.37" ~ 0.42")	5.9	F1.6	42.3° ~ 7.5°	DC	Manual	Manual	46 x 60 x 58.2mm (1.81" x 2.36" x 2.29")	80g (0.17 lb)
	SLA-M2890DN					2.8 ~ 9mm (0.11" ~ 0.35")	7.5 ~ 15.9mm (0.30" ~ 0.63")	3.2	1.2	134.2° ~ 42.7°				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	

ACCESSORY

NETWORK



SHP-1680F



SHP-3701H



SHP-3701F



SHD-3000F/3000F1



SHD-3000F2

In-Ceiling Housing for PTZ & Dome

- For indoor applications
- Polycarbonate
- Can be used with
XNP-6120H
XNV-6120/6120R/6085
XND-6085/6085V

Outdoor Housing for PTZ Dome

- For outdoor applications
- Weatherproof rated to IP66
- Aluminium + Polycarbonate
- IK10 vandal resistant
- Can be used with
HCP-6320A/6320/6230
XNP-6320, QNP-6230
SNP-3300A/3301/3302/3350/3370/3371/
3750/5200/5300/5320/5321/5430/
6200/6201/6230/6320/6321/L5233/L6233
SCP-2250/2251/2270/2271/2273/2330/2370/
2371/2373/2430/3250/3370/3371/3430

In-Ceiling Housing for Dome

- For indoor applications
- Polycarbonate
- Can be used with
HCP-6321/6321A/6320/6231
XNP-6321
QNP-6231
SNP-3301/3301A/3302/3350/3370/3371/
3750/5200/5300/5320/5321/5430/
6200/6201/6230/6320/6321/L5233/L6233
SCP-2250/2251/2270/2271/2273/2330/2370/
2371/2373/2430/3250/3370/3371/3430

In-Ceiling Housing for PTZ Dome

- For indoor applications
- Polycarbonate
- Can be used with
SND-7084R/7084/6084R/6084/6083/5084R/
5084/5083
SCD-6081R
PNV-9080R
XNV-8080R/6080R/6080
XNV-L6080/L6080R
SNV-8081R/8080/7084R/7084/6085R/6084R/
6084/5084R/5084

In Ceiling Housing for Dome

- For indoor applications
- Polycarbonate
- Can be used with
QND-6070R/6071R/7080R/7081R
SND-6011R/L5083R/L6083R
SCD-5080A/5082/5083/5083R/
6021/6083R
SUD-5082/6083R/6023R
HCD-6070R/7070R/6080R/7080R
LND-6071R



SHD-3000F3



SHD-3000F4



SHD-3000F5



SHF-1500F



SBP-301HM3

In Ceiling Housing for Dome

- For indoor applications
- Polycarbonate
- Can be used with
QNV-6070R/7080R/6071R/7081R
SNV-L6083R
SCV-5082/6023R/6083R
HCV-7070R/6080R/6070R
LNV-6071R

In Ceiling Housing for Dome

- For indoor applications
- Polycarbonate
- Can be used with
PND-9080R
XND-6080/6080R/6080RV/6080V/
L6080R/L6080RV/L6080V/
8080R/8080RV

In Ceiling Housing for Dome

- For indoor applications
- Polycarbonate
- Can be used with
PNM-9000VQ

In-Ceiling Housing for PTZ & Dome

- For indoor applications
- Polycarbonate
- Can be used with
PNF-9010R/9010RV/9010RVM
XNF-8010R/8010RV/8010RVM

Hanging Mount

- Aluminum
- Can be used with
SNP-L6233/L5233/6321/6230/
6320/5430/5321/5320
HCP-6320A/6320/6230
SCP-3371/2273
XNP-6320
QNP-6230



SBP-301HM4



SBP-301HM5



SBP-300HM5



SBP-300HM6



SBP-300HM7

Hanging Mount

- Aluminum
- Can be used with
SNF-7010/7010V
LND-6071R
QND-6070R/6071R/7080R/7081R
HCD-6070R/7070R/7080R/6080R
SND-6011R/L5083R/L6083R
SCD-6021/6083R/5083R/5083B/5080A
SUD-6083R/6023R

Hanging Mount

- Aluminum
- Can be used with
XNP-6040H
QNV-6070R/6071R/7080R/7081R
HCV-7070R/6080R/6070R
LNV-6071R
SNV-L6083R
SCV-6083R/6023R/2081/5082
SND-7084R/7084/6084R/6084/6083/5084R/
5084/5083
SCD-6081R

Hanging Mount

- Aluminum
- Can be used with
XNF-8010R/8010RV/8010RVM
SNF-8010/8010VM, PNF-9010R/9010RV/9010RVM
QNE-6080RV/7080RV

Hanging Mount

- Aluminum
- Can be used with
PNV-9080R
XNV-8080R/6120R/6120/
6080R/6080/L6080R
SNV-8081R/8080/7084R/7084/6085R/
6084R/6084/5084R/5084/6085
XND-6085V/6085
PNM-7000VD

Hanging Mount

- Aluminum
- Can be used with
SNV-6013
XNV-6011
XND-8040R/8030R/8020R/6020R/6010
QND-7030R/7020R/7010R/6030R/6020R/6010R
HCD-7010R/7020R/7030R/6020R/6010/E6020R
SND-L6014R/L6013R/L6013/L6012
SCD-6013/6023R
LND-6011R/6021R/6031R

ANALOG

PERIPHERAL

ACCESSORY



SBP-300HM8



SBP-122HM



SBP-160HM/180HM



SBP-168HM



SBP-201HM/317HM/329HM/276HM

<p>Hanging Mount</p> <ul style="list-style-type: none"> Aluminum Can be used with SND-6083/5084R/5084/5083/7084R/7084/6084R/6084 SCD-6081R PND-9080R XND-8080RV/8080R/6080V/6080RV/6080R/6080/L6080R/L6080RV/L6080V 	<p>Hanging Mount</p> <ul style="list-style-type: none"> Aluminum Can be used with XNV-6010/6020R/8020R/8030R/8040R QNV-6010R/6020R/6030R/7010R/7020R/7030R HCV-7010R/7020R/7030R LNV-6011R/6021R/6031R QND-6070R/6071R/7080R/7081R HCD-6070R/7070R/7080R/6080R SND-6011R/L5083R/L6083R SCD-6021/6083R/5083R/5083B/5080A SUD-6083R/6023R LND-6071R 	<p>Hanging Mount</p> <ul style="list-style-type: none"> Aluminum Can be used with XND-8081VZ/6081VZ/8081RV/6081RV/6081V(SBP-160HM) Can be used with XNV-8081Z/6081Z/6081R/6081(SBP-180HM) 	<p>Hanging Mount</p> <ul style="list-style-type: none"> Aluminum Can be used with XNP-6120H 	<p>Hanging Mount</p> <ul style="list-style-type: none"> Aluminum Can be used with PNM-9020V HCM-9020VQ(SBP-201HM) Can be used with PNM-9080VQ/9081VQ(SBP-317HM : Indoor, SBP-329HM : Outdoor) Can be used with PNM-9000VQ/9030V(SBP-276HM)
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SBP-300HF/301HF/302HF/303HF



SBP-300TM1/300TM



SBP-160TM



SBP-300WM1/300WM



SBP-300CM/300LM

<p>Built-in SFP Install Base for PTZ Cameras</p> <ul style="list-style-type: none"> Aluminum LC SFP port type 100Mbps Ethernet speed (Default speed : 1000Mbps) IEEE 802.3u, IEEE 802.3z Support Audio input/output, 3.5mm type 24V AC, IP66, IK10, -50°C to +55°C Can be used with SNP-6320H/5430H (SBP-300HF) Can be used with SNP-6321H/5321H/L6233H/L5233H (SBP-301HF) Can be used with PNP-9200RH/XNP-6370RH (SBP-302HF) Can be used with XNP-6550RH/6371RH/6320H QNP-6230H (SBP-302HF) 	<p>Tilt Mount</p> <ul style="list-style-type: none"> Poly Carbonate Can be used with PNF-9010R/9010RV/9010RVM XNF-8010R/8010RV/8010RVM QNE-6080RV/7080RV SNF-8010/8010VM (SBP-300TM1) Can be used with SNF-7010/7010V (SBP-300TM) 	<p>Tilt Mount</p> <ul style="list-style-type: none"> Aluminum Can be used with PNV-9080R XNV-8080R/6120R/6120/6085R/6080R/6085/6080/L6080/L6080R SNV-8081R/8080/7084R/7084/6085R/6084R/6084/5084R/5084 XND-6085V/6085 	<p>Wall Mount</p> <ul style="list-style-type: none"> Aluminum + SECC Can be used with SBP-300HM1/301HM2/301HM3/301HM4/301HM5 300HM5/300HM6/300HM7/300HM8/ 122HM/201HM/317HM/329HM/276HM/ 168HM/300B/300PM/300KM PH1/PH2/PH3/PH4/PH5/PH6 	<p>Ceiling Mount / Parapet Mount</p> <ul style="list-style-type: none"> Aluminum + SECC Can be used with SBP-300HM1/301HM2/301HM3/301HM4/301HM5 300HM5/300HM6/300HM7/300HM8/ 122HM/201HM/317HM/329HM/ 276HM/168HM PH1/PH2/PH3/PH4/PH5/PH6 (SBP-300CM) Can be used with SBP-300HM1/301HM2/301HM3/301HM4/301HM5 300HM5/300HM6/300HM7/300HM8/ 122HM/201HM/317HM/329HM/ 276HM/168HM/300B/300PM/300KM PH1/PH2/PH3/PH4/PH5/PH6 (SBP-300LM)
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SBP-137WM/137WM1



SBP-120WM



SBP-390WM1



SBP-300PM/300KM



SBP-300B/300NB

<p>Wall Mount</p> <ul style="list-style-type: none"> Alluminum and Poly Carbonate Can be used with XNP-6040H QNV-6070R/6071R/6080R/7080R/7081R HCV-7070R/6080R/6070R/7010R/7020R/7030R LNV-6071R/6011R/6021R/6031R SNV-L6083R SCV-6083R/6023R/5082/2081 XNV-8040R/8030R/8020R/6020R/6010 QNV-7030R/7020R/7010R/6030R/6020R/6010R 	<p>Wall Mount</p> <ul style="list-style-type: none"> Plastic Can be used with QND-6070R/6071R/7080R/7081R/7030R/7020R/7010R/6030R/6020R/6010R HCD-6070R/7070R/7080R/6080R/7010R/7020R/7030R/6020R/E6020R SCD-6021/6083R/5083R/5083B/5080A/6013/6023R SUD-6083R/6023R LND-6071R/6011R/6021R/6031R XND-8040R/8030R/8020R/6020R/6010 SND-6011R/L5083R/L6083R/L6014R/L6013R/L6013/L6012, XNV-6011, SNV-6013 	<p>Wall Mount</p> <ul style="list-style-type: none"> Aluminum Can be used with SBP-317HM/329HM/276HM 	<p>Pole Mount / Corner Mount Base</p> <ul style="list-style-type: none"> SECC Can be used with SBP-300WM1/300WM 	<p>Wall Mount Base / Installation Box</p> <ul style="list-style-type: none"> Aluminum + SECC Can be used with SBP-300WM1/300WM/ 300WMS1/300WMS SBU-500WM (SBP-300B) Steel Can be used with SBP-300WM/300WM1 (SBP-300NB)
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ACCESSORY

NETWORK



SBV-160WC/120WC



SBV-116B



SBV-136B/158G



SBF-100B1/SBO-100B1/SBO-126B



SBP-301HMW2/300HMW5/300HMW7

Weather Cap

- Alluminum and Poly Carbonate
- Can be used with XNV-8080R/6120R/6120/6085/6080R/6080/L6080/L6080R SNV-5084/5084R/6084/6084R/6085R/7084/7084R/8080/8081R XND-6085V/6085, PNV-9080R(SBV-160WC)
- Can be used with XNV-6011/6020R/8020R/8030R/8040R QNV-6010R/6020R/6030R/7010R/7020R/7030R HCV-7010R/7020R/7030R LNV-6011R/6021R/6031R(SBV-120WC)

Back Box

- Aluminum
- Can be used with XNV-6011 XNV-6013

Back Box

- Aluminum
- Can be used with XNP-6040H, HCV-7070R/6080R/6070R QNV-6070R/6071R/6080R/7080R/7081R LNV-6071R, SNV-L6083R/L5083R SCV-6083R/6023R/5082/5085/5083R/5083/5082R/2081 (SBV-136B)
- Can be used with PNV-9080R, XNV-8080R/6120R/6120/6085R 6080R/6080/L8080R/L6080/L6080R/6085 SNV-8081R/8080/7084R/7084/6085R/6084R/6084/5084R/5084 XND-6085V/6085, PNM-7000VD (SBV-158G)

Back Box

- Aluminum
- Can be used with XNF-8010R/8010RV/8010RVM SNF-8010/8010VM, PNF-9010R/9010RV/9010RVM QNE-6080RV/7080RV (SBF-100B1)
- Can be used with QNO-7080R/6070R/7010R/7020R/7030R/6010R/6020R/6030R SNO-L6083R/L5083R, SCCO-6083R HCO-7070R/7010R/7020R/7030R/6080R/6070R (SBO-100B1)
- Can be used with XNO-L6080R (SBO-126B)

Hanging Mount

- Aluminum, White
- Can be used with LNV-6070R (SBP-301HMW2)
- Can be used with QNE-7080RVW/6080RVW (SBP-300HMW5)
- Can be used with LND-6010R/6020R/6030R (SBP-300HMW7)

ANALOG



SBP-122HMW



SBP-300WMW1/300CMW/300WMW



SBP-302PM/303PM



SBP-300HMS6



SBP-300WMS1/300WMS

Wall Mount

- Aluminum, White
- Can be used with LNV-6010R/6020R/6030R LND-6070R

Wall Mount /Ceiling Mount

- Aluminum, White
- Can be used with SBP-300HMW7/300HMW5/301HMW2/122HMW 160HM/180HM

Pole Mount

- SECC
- Can be used with SBO-100B1/126B PNO-9080R XNO-8080R/6080R/8040R/8030R/8020R/6020R/6010R/6120R/6085R SNO-8081R (SBP-302PM)
- Can be used with TNO-4030T/4030TR/4040T/4040TR/4050T/4050TR (SBP-303PM, White)

Wall Mount

- Stainless steel (SUS316L)
- Can be used with XNV-8080RS/6120RS/6080RS

Wall Mount

- Stainless steel (SUS316L)
- Can be used with XNP-6320HS SBP-300HMS6

PERIPHERAL



SBP-300KMS



SBP-300PMS



SHB-4300H/4300H1/4300H2/4300HP



SHB-4200/4200H



STH-200

Corner Mount Base

- Stainless steel (SUS316L)
- Can be used with SBP-300WMS1/300WMS (SBP-300KMS)

Pole Mount

- Stainless steel (SUS316L)
- Can be used with SBP-300WMS1/300WMS

Fixed Housing

- Aluminum diecasting construction
- Fully cable managed bracket
- Built-in fan & heater
- Support three cable glands, IP66

Fixed Housing

- Support two cable glands
- Built-in fan & heater : SHB-4200H

Fixed Housing

- For fixed camera application
- Wall/ceiling installations
- Easy to install side open type

ACCESSORY

ACCESSORY



STB-400/4150V

- Fixed Mount
- Bracket for STH-500/200
 - Aluminum and Steel material (STB-400)
 - Bracket for box cameras
 - Aluminum and Steel material (STB-4150V)



SPI-50

- IR Illuminator
- Compatible IR Illuminator for TNU-6320
 - Wavelength 850nm
 - Angle 25°



SBU-500WM

- Mount-Fixed
- Aluminum
 - Can be used with SPT-3100 TNU-6320



SPB-IND5/IND6/IND7

- Smoked Dome Cover
- Poly Carbonate + Poly Carbonate
 - Can be used with SCD-6081R SND-7084/6084R/6084/6083/5084/5083 (SPB-IND5)
 - Can be used with HCD-6070R/7070R/7080R/6080R SND-6011R SCD-6021/6083R/5083R/5083B/5080A SUD-6083R/6023R (SPB-IND6)
 - Can be used with SND-L5083R/L5084R/L6083R/L6084R (SPB-IND7)



SPB-IND11/IND81/IND81V

- Smoked Dome Cover
- Poly Carbonate + Poly Carbonate
 - Can be used with XND-6010/6020/8020R/8030R/8040R (SPB-IND11)
 - Can be used with XND-6080/6080R/L6080R/8080R PND-9080R (SPB-IND81)
 - Can be used with XND-6080V/6080RV/L6080RV/L6080V/8080RV (SPB-IND81V)



SPB-IND12/IND72

- Smoked Dome Cover
- Poly Carbonate + Poly Carbonate
 - Can be used with QND-6010R/6020R/6030R/7010R/7020R/7030R HCD-7010R/7020R/7030R/6020R (SPB-IND12)
 - Can be used with QND-6070R/6071R/7080R/7081R HCD-6070R/7070R/7080R/6080R SND-6011R/L5083R/L6083R SCD-6021/6083R/5083R/5083B/5080A SUD-6083R/6023R (SPB-IND72)



SPB-IND83/IND83V

- Smoked Dome Cover
- Poly Carbonate + Poly Carbonate
 - Can be used with XND-6085 (SPB-IND83)
 - Can be used with XND-6085V (SPB-IND83V)



SPB-VAN3/VAN4

- Smoked Dome Cover
- Aluminium + Poly Carbonate
 - Can be used with PNV-9080R XNV-8080R/6120R/6120/6080R/6080/L6080/L6080R SNV-8081R/8080/7084R/7084/6085R/6084R/6084/5084R/5084 (SPB-VAN3)
 - Can be used with QNV-6070R/6071R/7080R/7081R HCV-7070R/6080R/6070R SNV-L6083R SCV-6083R/6023R/5082 (SPB-VAN4)



SPB-VAN11/VAN71/VAN81

- Smoked Dome Cover
- Aluminium + Poly Carbonate
 - Can be used with XNV-6010/6020R/8020R/8030R/8040R (SPB-VAN11)
 - Can be used with XNV-6120/6120R (SPB-VAN71)
 - Can be used with XNV-6085 (SPB-VAN81)



SPB-VAN12/VAN72

- Smoked Dome Cover
- Aluminium + Poly Carbonate
 - Can be used with QNV-7030R/7020R/7010R/6030R/6020R/6010R HCV-7010R/7020R/7030R (SPB-VAN12)
 - Can be used with QNV-6070R/6071R/7080R/7081R HCV-7070R/6080R/6070R (SPB-VAN72)



SPB-PTZ71

- Smoked Dome Cover
- Poly Carbonate + Poly Carbonate
 - Can be used with XNP-6040H



SPB-PTZ73

- Smoked Dome Cover
- Poly Carbonate + Poly Carbonate
 - Can be used with XNP-6120H

ACCESSORY CONFIGURATION

NETWORK

PTZ Cameras

Type	Outdoor PTZ					Indoor PTZ
Shape	 PH4	 PH5	 PH6	 PH7	 PH8	 P4
Color	Ivory					
Model	SCP-2271H/2273H/ 2371H/2373H/ 3371H SNP-5300H/5320H/ 5321H/5430H/ 6201H/6320H/ 6321H/L5233H/ L6233H HCP-6230H/6320H/ 6320HA XNP-6320H QNP-6230H	SCP-2370RH SNP-6200RH/ 6230RH/ 6320RH/ L6233RH	PNP-9200RH XNP-6370RH/ 6371RH/ 6550RH	XNP-6120H	XNP-6040H	SCP-2271/2273/ 2371/2373/ 3371 SNP-5300/5320/ 5321/5430/ 6201/6230/ 6320/6321/ L5233/L6233 HCP-6230/6320/ 6320A XNP-6320 QNP-6230

ANALOG

White Cameras

Type	Vandal-Resistant				Indoor Dome		
Shape	 VW5	 VW6	 VW7	 VW8	 DW4	 DW5	 FEW1
Color	White						
Model	LNV-6070R	LNV-6010R/ 6020R/ 6030R	XND-8081VZ/ 6081VZ/ 8081RV/ 6081RV/ 6081V	XNV-8081Z/ 6081Z/ 6081R/ 6081	LND-6070R	LND-6010R/ 6020R/ 6030R	QNE-7080RVW/ 6080RVW

PERIPHERAL

ACCESSORY

ACCESSORY CONFIGURATION

Dome Cameras

Type	Vandal-Resistant						Indoor Dome					
Shape												
Color	Ivory											
Model	SCV-2060/2080/ 3080/3120 SNV-3080/3082/ 3120/5080/ 5080R/7080/ 7080R/7082	SCV-2081/2081R/ 2082R/3081/ 3082/3083 SNV-1080/1080R	PNV-9080R XNV-8080R/6120R/ 6120/6085R/ 6080R/6080/ L6080/L6080R/ 6085 SNV-8081R/8080/ 7084R/7084/ 6085R/6084R/ 6084/5084R 5084 SCV-6081R	SNV-6013 XNV-6011	QNV-6070R/6071R/ 6080R/7080R/ 7081R HCV-7070R/6080R/ 6070R LNV-6071R SNV-L6083R/L5083R SCV-6083R/6023R/ 5082/5085/ 5083R/5083/ 5082R	XNV-8040R/8030R/ 8020R/6020R/ 6010 QNV-7030R/7020R/ 7010R/6030R/ 6020R/6010R HCV-7010R/7020R/ 7030R LNV-6011R/6021R/ 6031R	SND-5061/7061/ 1080 SCD-3083/3082E 3081/3080/ 2082/2081 2080R/2080E/ 2080/2060E	SCD-6081R SND-5083/5084/ 5084R/6083/ 6084/6084R/ 7084/7084R	QND-6070R/6071R/ 6080R/7080R/ 7081R HCD-6070R/7070R/ 7080R/6080R SND-6011R/L5083R/ L6083R SCD-6021/6083R/ 5083R/5083B/ 5080A/5082 SUD-6083R/6023R/ 5082 LND-6071R	XND-8040R/8030R/ 8020R/6020R/ 6010 QND-7030R/7020R/ 7010R/6030R/ 6020R/6010R HCD-7010R/7020R/ 7030R/6010 6020R/E6020R SND-L6014R/L6013R/ L6013/L6012/ L5013 SCD-6013/6023R LND-6011R/6021R/ 6031R	PND-9080R XND-6080/6080R/ 6080RV/ 6080V/ L6080R/ L6080RV L6080V/ 8080R/ 8080RV	XND-6085V/ 6085

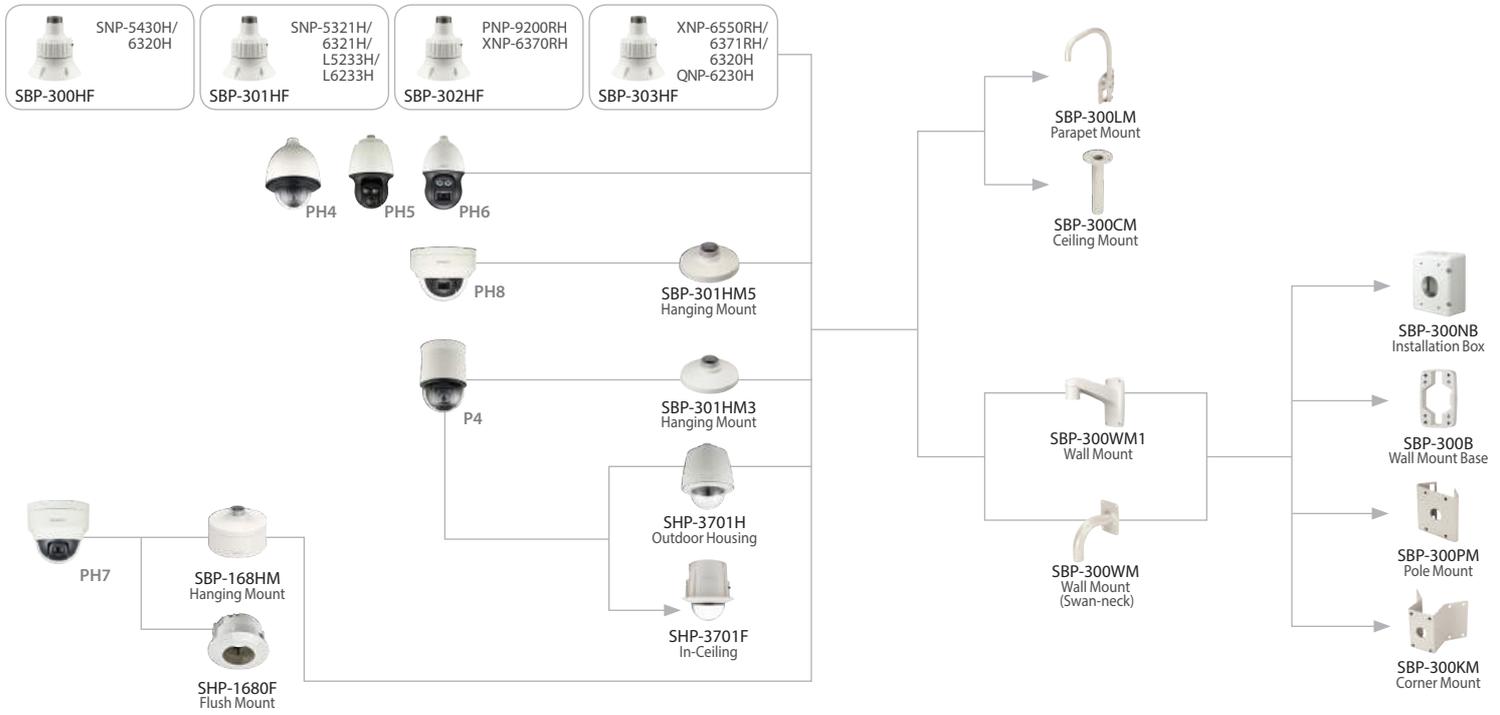
Fisheye / Multi-Sensor Cameras

Type	Fisheye						Dome	Multi-Sensor					
Shape													
Color	Ivory												
Model	SNF-7010	SNF-8010	XNF-8010R PNF-9010R	SNF-7010V/ 7010VM	SNF-8010VM	PNF-9010RV/ 9010RVM XNF-8010RV/ 8010RVM	QNE-7080RV/ 6080RV	PNM-9020V HCM-9020VQ	PNM-9081VQ/ 9080VQ	PNM-7000VD	PNM-9000VQ	PNM-9030V	PNM-9320VQ

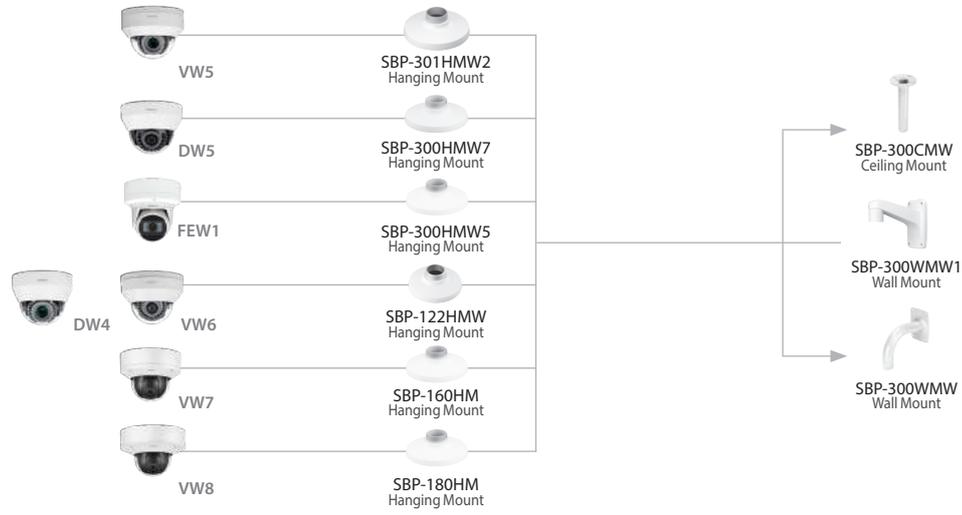
ACCESSORY CONFIGURATION

NETWORK
ANALOG
PERIPHERAL
ACCESSORY

PTZ ACC

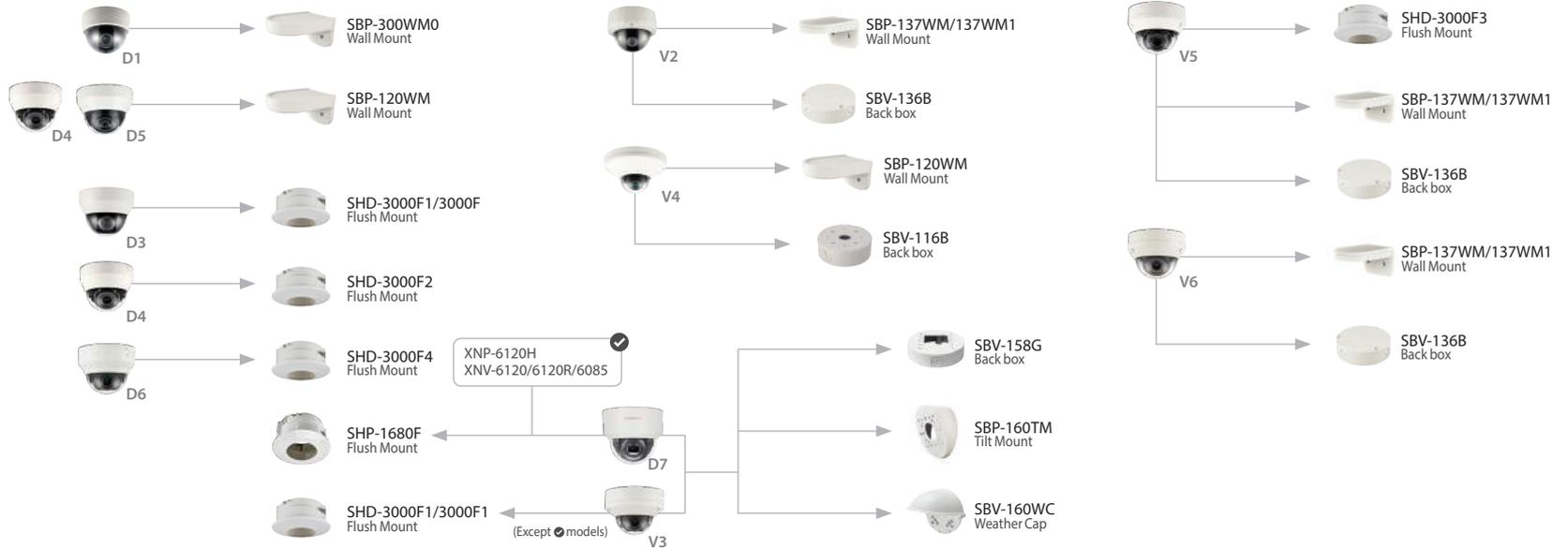
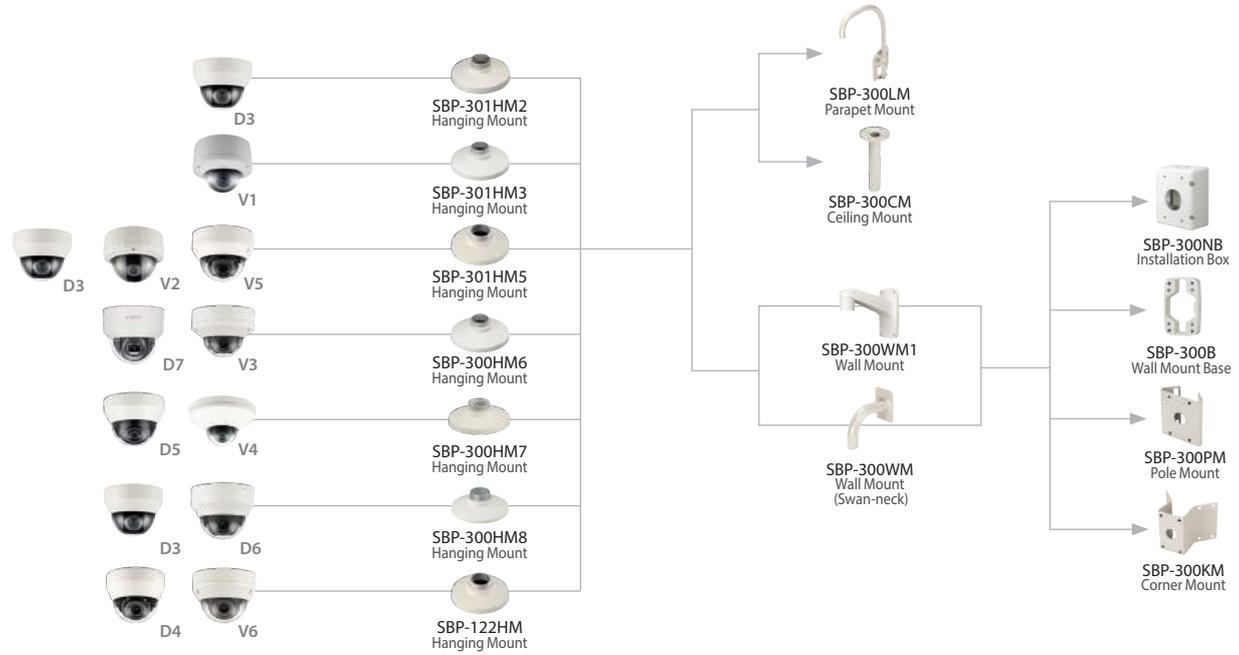


WHITE ACC



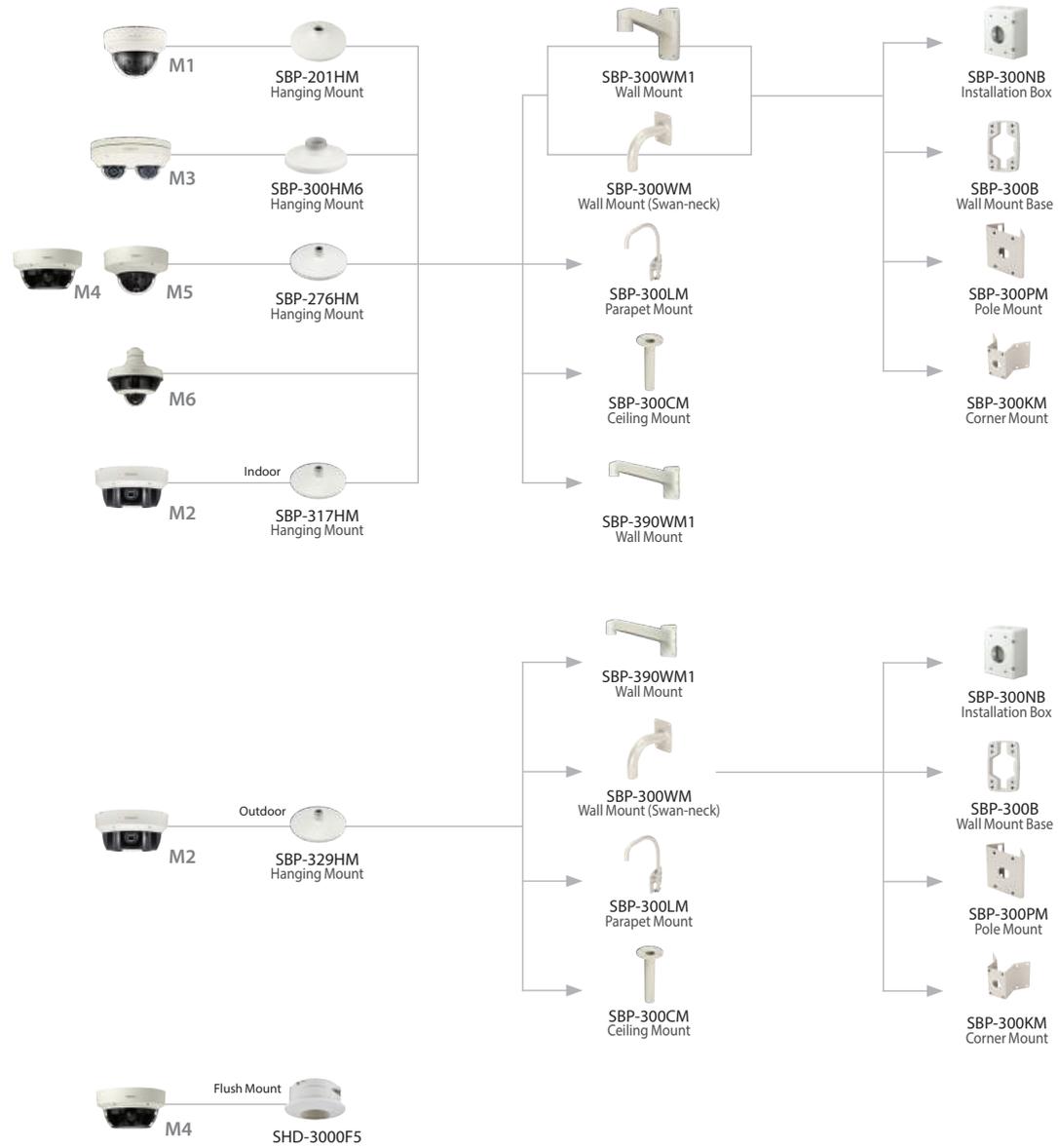
ACCESSORY CONFIGURATION

DOME ACC



ACCESSORY CONFIGURATION

MULTI SENSOR ACC

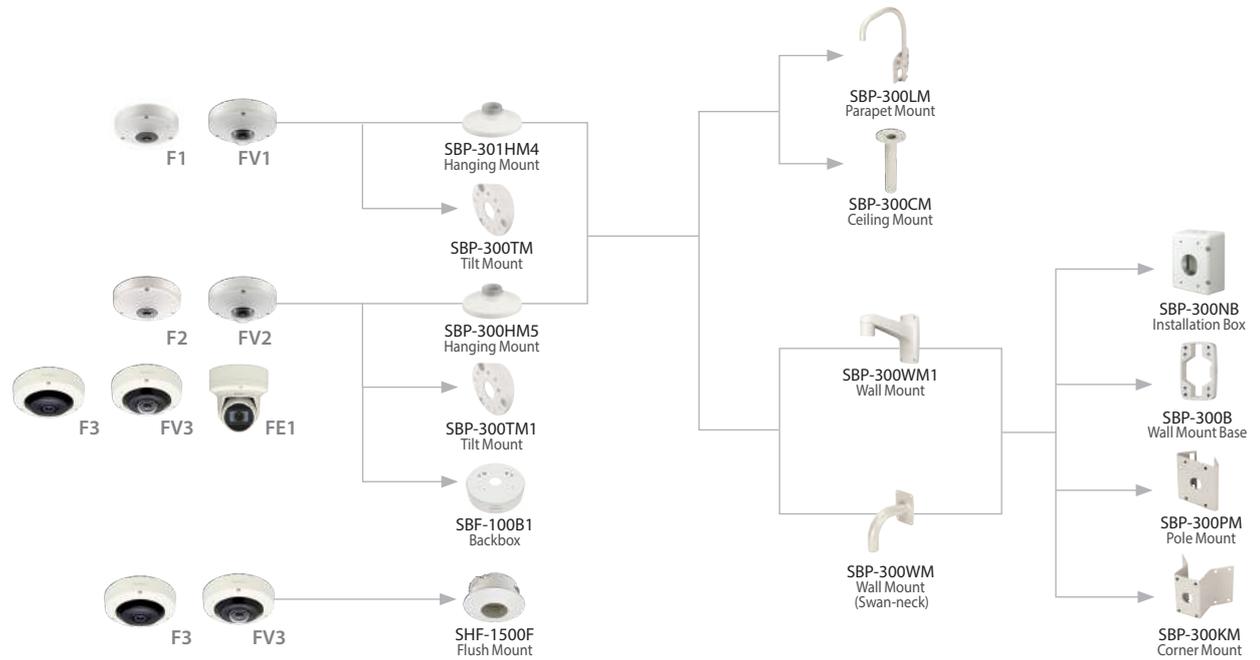


ACCESSORY CONFIGURATION

STAINLESS ACC



FISHEYE ACC



ACCESSORY CONFIGURATION

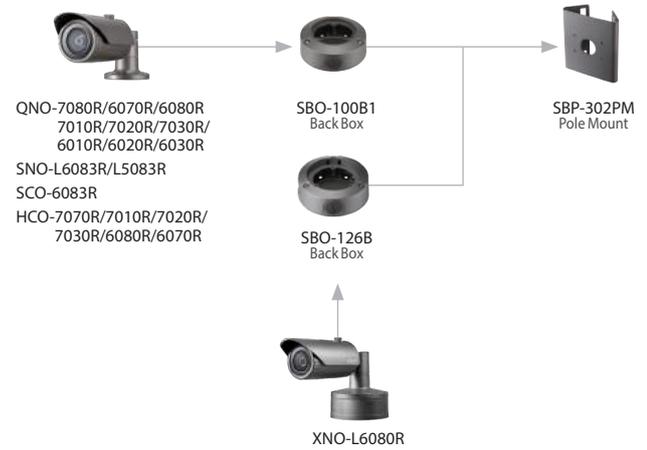
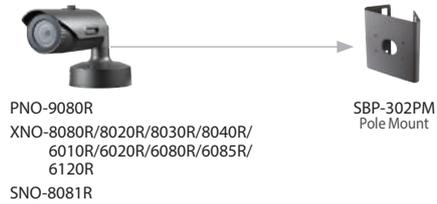
NETWORK

BULLET ACC

ANALOG

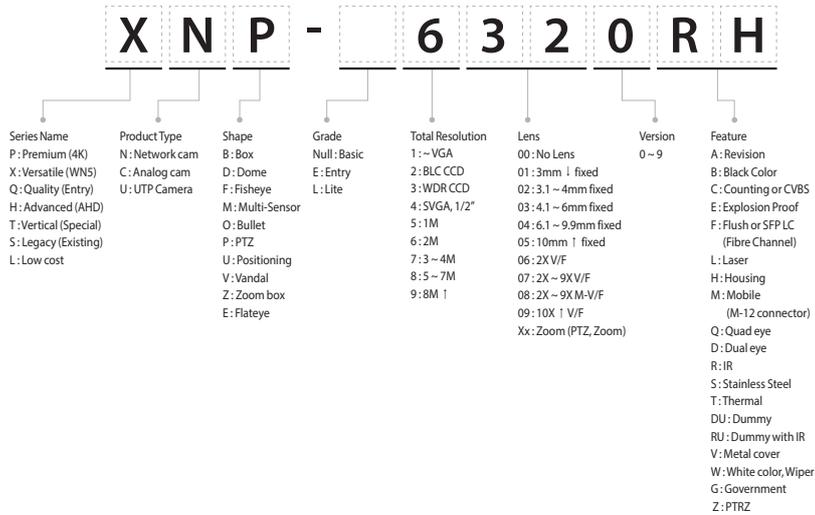
PERIPHERAL

ACCESSORY

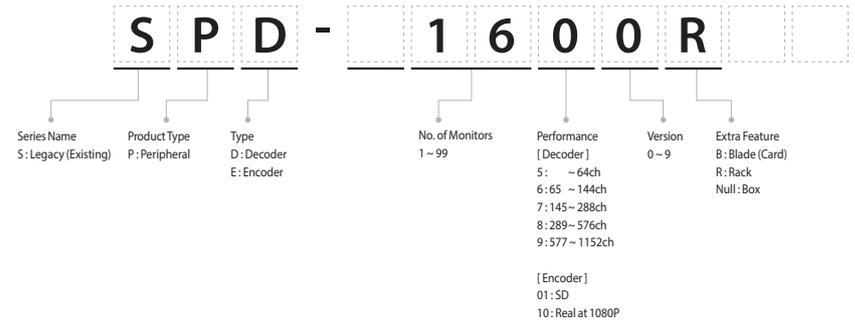


PRODUCT NAMING RULE

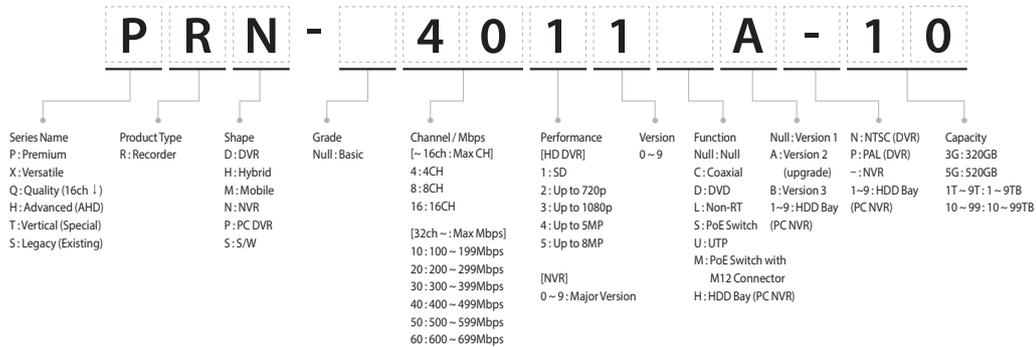
Camera



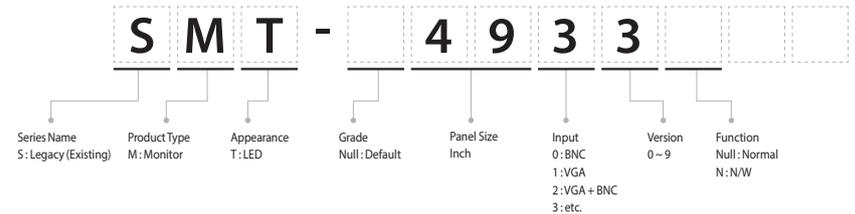
Decoder/Encoder



Recorder



Monitor



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