WISENET X PLUS

2MP/5MP NW Modular Camera

Wisenet X series Plus
cameras combine the power
of Hanwha's Wisenet 5 chipset with
an innovative modular design that
lowers overall cost of installation, configuration,
and maintenance while increasing the performance,
feature-set, and survivability of our X series product line.

Innovative Modular Design

Mounting Plate
Can be installed on site without other camera parts

Camera Case
Vandal Resistant Housing

Camera Module
This magnetically mounted 2 or 5 megapixel camera module can be installed without extra tools or hardware

Dome Cover
Polycarbonate dome cover

Paintable Ivory Skin Cover Included
Can be painted to blend into your environment

Easy Installation with Modular Structure and Motorized PTRZ

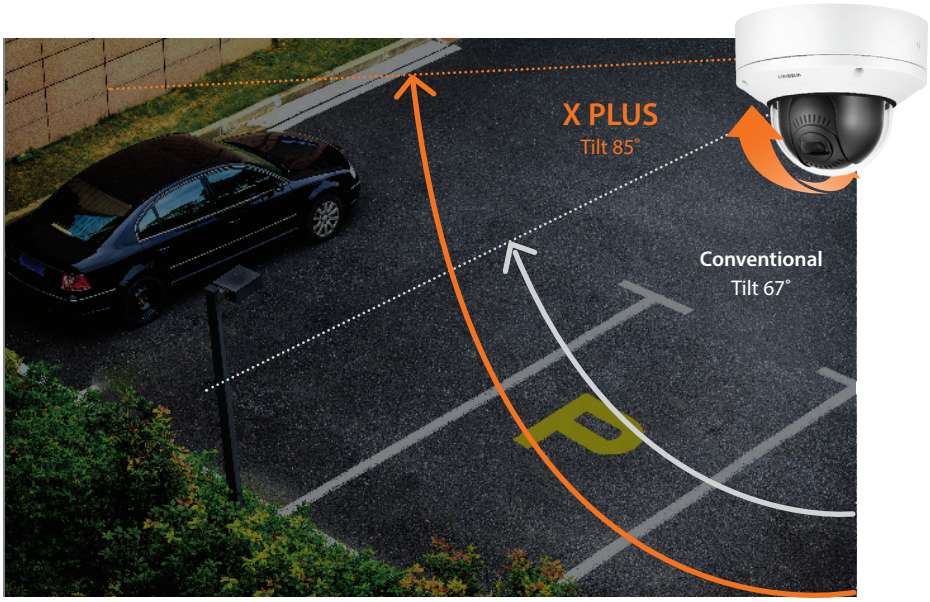
When combined, the unique modular design of the Wisenet X series Plus camera and motorized PTRZ camera module make on-site installation simple and pain free.*
Additionally, the product package has been reformulated to allow technicians quick access to the camera's network port for easy staging of product, saving time (and money) during installation and maintenance.

*Varies by model

Installer friendly package allows access to a camera's network port while still in the box.

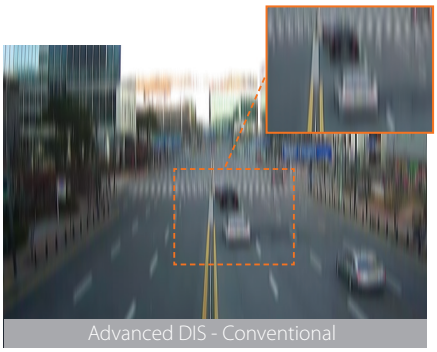
Extended Tilt Range for Greater Flexibility

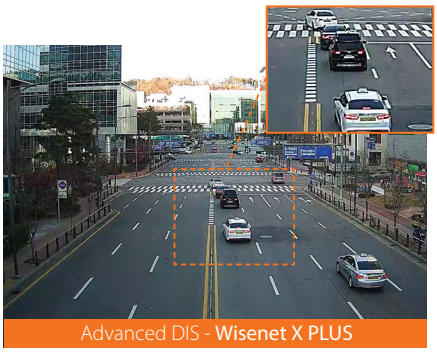
Extended tilt angle has been added for greater flexibility in placement and use cases of Wisenet X Plus cameras.



Advanced DIS and Shock Detection with Built-in Gyro Sensors

Wisenet X Plus cameras have built-in gyro sensors to enable advanced DIS with reduced motion blur and shock detection which detects when the camera is hit.


Advanced DIS - Conventional


Advanced DIS - **Wisenet X PLUS**

Shock Detection

High Reliability in Challenging Environments

One of the most important features of a security camera is reliability in challenging environments. Wisenet X PLUS cameras offer high reliability by providing resistance to weather and impact with IP67, IP66, IP6K9K, IK10+ ratings, and NEMA 4X rating.

IP67, IP66, IP6K9K

IK10+

-50°C ~ 60°C

Audio Playback on Event

Wisenet X series Plus cameras allow system operators to communicate with the public by using audio playback as a response to user-defined events.

Wisenet X series Plus Configurations

Category	Outdoor Vandal Dome			Indoor Vandal Dome			Flush Mount Dome		
Feature	**Non-IR**	**IR**	**PTRZ**	**Non-IR**	**IR**	**PTRZ**	**Non-IR**	**IR**	**PTRZ**
2MP Model	**XNV-6081**	**XNV-6081R**	**XNV-6081Z**	**XND-6081V**	**XND-6081RV**	**XND-6081VZ**	**XNV-6081F**	**XNV-6081RF**	**XNV-6081FZ**
5MP Model		**XNV-8081R**	**XNV-8081Z**		**XND-8081RV**	**XND-8081VZ**		**XNV-8081RF**	**XNV-8081FZ**
	• IP67/IP66/IP6K9K • IK10+ • NEMA 4X • -58°F ~ +140°F			• IP52/IK10 • -13°F ~ +140°F			• IP52/Plenum Rated (UL2820) • -13°F ~ +140°F		

Optional Accessories for Various Applications

Included with each camera is a paintable ivory skin cover along with a weather cap for all outdoor models. Other optional accessories include black colored skin covers, an AC24V power module, and a plethora of mounting options to suit your environment.

Weather cap

Ivory & Black skin cover

Weather cap(XNV only) and ivory skin cover(XNV and XND) are included in product package.
The weather cap can not be applied with the skin cover on.

SBC-180B

Skin cover
Compatible with XNV-6081Z/8081Z

SBC-160B

Skin cover
Compatible with XND-6081Z/8081Z

SPC-100AC

AC24V power module
Compatible with XNV-6081Z/8081Z

SBP-187HMW / 187HM

Hanging mount
Compatible with XNV-6081Z/8081Z

SBP-167HMW / 167HM

Hanging mount
Compatible with XND-6081Z/8081Z

SBP-300WMW1 / WM1

Wall mount
Compatible with SBP-180HMW/160HMW

SBP-300KMW / 300KM

Corner mount
Compatible with SBP-300WMW1

SBP-300PMW / 300PM

Pole mount
Compatible with SBP-300WMW1

SBP-300CMW / 300CM

Celling mount
Compatible with SBP-180HMW/160HMW

		Wisenet X XNB-8000	Wisenet X XNO-8080R	Wisenet X XNO-8020R/8030R/8040R	NEW Wisenet X XND-8081VZ/8081FZ
Resolution		5MP	5MP	5MP	5MP
VIDEO	Imaging Device	1/1.8" 6M CMOS	1/1.8" 6M CMOS	1/1.8" 6M CMOS	1/1.8" 6M CMOS
	Video Compression Format	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG
	Resolution / Max. Frame Rate	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)
	Max. User Access	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 : 0.07Lux B/W : 0.007Lux
	Video Output	CVBS 1.0Vpp, Micro USB type B	CVBS 1.0Vpp, Micro USB type B	CVBS 1.0Vpp, Micro USB type B	CVBS 1.0Vpp Micro USB type B
	Lens	-	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)	3.9 ~ 9.4mm (2.6x) motorized V/F (F1.2)
	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 : 100.2°(Wide) ~ 38.7°(Tele) / V : 72.7°(Wide) ~ 29.0°(Tele) / D : 132.0°(Wide) ~ 48.6°(Tele)
	Focus Control	Simple focus / Manual	Simple focus (motorized V/F) / Manual	-	Simple focus (motorized V/F) / Manual
OPERATIONAL	IR Viewable Length	-	50m (164.04ft)	30m (98.43ft)	-
	Pan / Tilt / Rotate	-	-	-	±175° / 0~85° / ±175° (XND-8081VZ) ±175° / 0~90° / ±175° (XND-8081FZ)
	Day & Night	True (ICR)	True (ICR)	True (ICR)	Auto (ICR)
	Backlight Compensation	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)
	Digital Image Stabilization	Support (Built in Gyro sensor)	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, 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, Shock detection, Heatmap, People counting, Queue management, Audio Playback on event
FEATURES	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	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	-	IP67, IP66, NEMA 4X, IK10	IP67, IP66, NEMA 4X, IK10	IP52, IK10 (XND-8081VZ) IP52, Plenum rated (XND-8081FZ)
	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)	-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 9W, typical 3.75W (12V DC) Max 11W, typical 5.4W (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)	Ø160 x 125mm (Ø6.30" x 4.9") / 1.45kg (3.2lb) (XND-8081VZ) Ø205 x 150mm (Ø8.07" x 6.10") / 1.85kg (4.08lb) (XND-8081FZ)
	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

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Wisenet X **XND-8080RV**	Wisenet X **XND-8020R/8030R/8040R**	Wisenet X **XND-8020F**	Wisenet X **XNV-8081Z**	Wisenet X **XNV-8080R**
5MP	5MP	5MP	5MP	5MP
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
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
5M / 30fps	5M / 30fps	5M / 30fps	5M / 30fps	5M / 30fps
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)
20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)
Color : 0.07Lux B/W : 0Lux (IR LED on)	Color : 0.16Lux B/W : 0Lux (IR LED on)	Color : 0.16Lux B/W : 0.16Lux	Color : 0.07Lux B/W: 0.007Lux	Color : 0.07Lux B/W : 0Lux (IR LED on)
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
3.9 ~ 9.4mm (2.4x) motorized V/F (F1.3)	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)
H : 92.1°(Wide) ~ 38.7°(Tele) / V : 67.2°(Wide) ~ 29.0°(Tele) / D : 119.9°(Wide) ~ 48.6°(Tele)	H : 97.5° / V : 71.9° / D : 126.2° (XND-8020R) H : 77.9° / V : 57.9° / D : 98.7° (XND-8030R) H : 50.7° / V : 37.8° / D : 63.8° (XND-8040R)	H : 97.5° / V :71.9° / D : 126.2°	H : 100.2°(Wide) ~ 38.7°(Tele) / V : 72.7°(Wide) ~ 29.0°(Tele) / D : 132.0°(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)
Simple focus (motorized V/F) / Manual	-	Manual	Simple focus (motorized V/F) / Manual	Simple focus (motorized V/F) / Manual
30m (98.43ft)	30m (98.43ft)	-	-	50m (164.04ft)
0° ~ 354° / 0° ~ 67°/ 0° ~ 355°	0° ~ 354° / 0° ~ 67°/ 0° ~ 355°	0° ~ 355° / 0° ~ 47° / 0° ~ 353°	±175° / 0~85° / ±175°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°
True (ICR)	True (ICR)	Auto (Electrical)	Auto (ICR)	True (ICR)
WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)
SSNR**V** (2D+3D Noise filter)	SSNR**V** (2D+3D Noise filter)	SSNR**V** (2D+3D Noise filter)	SSNR**V** (2D+3D Noise filter)	SSNR**V** (2D+3D Noise filter)
Support	Support	Support	Support (Built in Gyro sensor)	Support
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, 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, 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
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
1 / 1	1 / 1	-	1 / 1	1 / 1
Bi-Directional	Bi-Directional	Uni-Directional	Bi-Directional	Bi-Directional
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
IK08	IK08	-	IP67, IP66, IP6K9K, NEMA 4x, IK10+	IP67, IP66, NEMA 4X, IK10
-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-50°C ~ +60°C (-58°F ~ +140°F) * Start up above -35°C (-31°F)	-40°C ~ +55°C (-40°F ~ +131°F)
Max. 9W (12V DC) Max. 10W (PoE)	Max. 8W (12V DC) Max. 9W (PoE)	Max. 4.7W (PoE)	Max. 11W, typical 4.97W (24V AC) (Optional) Max. 9.5W, typical 3.71W (12V DC) Max. 11W, typical 4.80W (PoE)	Max. 14W (24V AC) Max. 11.5W (12V DC) Max. 12.95W (PoE)
Ø140.8 x 113.0mm (Ø5.54" x 4.45") 732g (1.61lb)	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)	Ø180.0 x 125mm (Ø7.1" x 4.9") 1.75kg (3.86lb)	Ø160.0 x 118.5mm (Ø6.30" x 4.67") 1.01Kg (2.23 lb)
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 Motorized Pan / Tilt / Rotate, Modular design	Handover, WiseStream II, Advanced video analytics, Sound classification (Explosion, Gunshot, Glass breakage, Scream etc), Hallway View

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		Wisenet X XNV-8080RS	Wisenet X XND-8020R/8030R/8040R	Wisenet X XNF-8010R/8010RV/8010RVM
	Resolution	5MP	5MP	6MP
VIDEO	Imaging Device	1/1.8" 6M CMOS	1/1.8" 6M CMOS	1/1.8" 6M CMOS
	Video Compression Format	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG
	Resolution / Max. Frame Rate	5M / 30fps	5M / 30fps	2048 x 2048 / 30fps
	Streaming Capacity	Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)
	Max. User Access	20 (Unicast)	20 (Unicast)	20 (Unicast)
	Min. Illumination	Color : 0.07Lux B/W : 0Lux (IR LED on)	Color : 0.16Lux B/W : 0Lux (IR LED on)	Color : 0.1Lux 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, DIP connector type
	Lens	3.9 ~ 9.4mm (2.4x) motorized V/F (F1.3)	3.7mm fixed (F1.6) (XND-8020R) 4.6mm fixed (F1.6) (XND-8030R) 7.0mm fixed (F1.6) (XND-8040R)	1.6mm fixed (F1.6)
	Angular Field of View	H : 92.1°(Wide) ~ 38.7°(Tele) / V : 67.2°(Wide) ~ 29.0°(Tele) / D : 119.9°(Wide) ~ 48.6°(Tele)	H : 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 : 192° / V : 192° / D : 192°
	Focus Control	Simple focus (motorized V/F) / Manual	-	Simple focus
OPERATIONAL	IR Viewable Length	50m (164.04ft)	30m (98.43ft)	15m (49.21ft)
	Pan / Tilt / Rotate	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 354° / 0° ~ 67°/ 0° ~ 355°	-
	Day & Night	True (ICR)	True (ICR)	True (ICR)
	Backlight Compensation	WDR (120dB)	WDR (120dB)	WDR (120dB)
	Digital Noise Reduction	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)
	Digital Image Stabilization	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, 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
FEATURES	Protocol	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
	Environment Protection	IP67, IP66, NEMA 4X, IK10+	IK08	IP66, IK10 (XNF-8010RV/8010RVM)
	Operating Temperature	-40°C ~ +55°C (-40°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F) (XNF-8010R) -40°C ~ +55°C (-40°F ~ +131°F) (XNF-8010RV/8010RVM)
	Power	Max. 14W (24V AC) Max. 11.5W (12V DC) Max. 12.95W (PoE)	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)
	Dimensions (WxHxD) / Weight	Ø162 X 120.5mm (Ø6.38" x 4.74") 2.68kg (5.91lb)	Ø110.0 x 90.0mm (Ø4.33" x 3.54") 380g (0.84 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)
	Additional Features	Handover, WiseStream II, Advanced video analytics, Sound classification (Explosion, Gunshot, Glass breakage, Scream etc), Hallway View, SUS316L	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, Advanced video analytics, Sound classification (Explosion, Gunshot, Glass breakage, Scream etc)

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Wisenet X XNZ-6320	Wisenet X XNB-6005	Wisenet X XNB-6000
2MP	2MP	2MP
1.28"" 2.4M CMOS	1/2" 2.17M CMOS	1/2.8" 2M CMOS
H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG
2M / 60fps	2M / 60fps	2M / 60fps
Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)
20 (Unicast)	20 (Unicast)	20 (Unicast)
Color : 0.05Lux B/W : 0.005Lux	Color : 0.006Lux B/W : 0.0006Lux	Color : 0.01Lux B/W : 0.001Lux
CVBS 1.0Vpp, Micro USB type B	CVBS 1.0Vpp, Micro USB type B	CVBS 1.0Vpp, Micro USB type B
4.44 ~ 142.6mm (Optical 32x) (F1.6)	-	-
H : 61.8°(Wide) ~ 2.19°(Tele) / V : 36.2°(Wide) ~ 1.24°(Tele)	-	-
Auto / Manual / One shot AF	Simple focus / Manual	Simple focus / Manual
-	-	-
-	-	-
True (ICR)	True (ICR)	True (ICR)
WDR (150dB)	WDR (150dB)	WDR (150dB)
SSNR**V** (2D+3D Noise filter)	SSNR**V** (2D+3D Noise filter)	SSNR**V** (2D+3D Noise filter)
Support (Built in Gyro sensor)	Support (Built in Gyro sensor)	Support (Built in Gyro sensor)
Tampering, Loitering, Directional detection, Defocus 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
ONVIF profile S/G, SUNAPI	ONVIF profile S/G, SUNAPI	ONVIF profile S/G, SUNAPI
1 / 1	1 / 1	1 / 1
Bi-Directional	Bi-Directional	Bi-Directional
SD/SDHC/SDXC, NAS, Local PC	SD/SDHC/SDXC, NAS, Local PC	SD/SDHC/SDXC, NAS, Local PC
-	-	-
-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)
Max 6.7W (12VDC) 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)
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)	73.1 x 66.6 x 147.8mm (2.88" x 2.62" x 5.82") 420g (0.93 lb)
SFP Slot, RS-485/RS-422, extraLUX, 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

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		Wisenet X XNB-6001	Wisenet X SLA-T4680	Wisenet X SLA-T4680V	Wisenet X SLA-T2480	Wisenet X SLA-T2480V	New Wisenet X SLA-T1080F
	Resolution	2MP	2MP	2MP	2MP	2MP	2MP
VIDEO	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 Format	H.265, H.264, MJPEG	-	-	-	-	-
	Resolution / Max. 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
OPERATIONAL	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	-	-	-	-	-
FEATURES	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, Sound classification (Explosion, Gunshot, Glass breakage, Scream etc), Hallway View	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

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Wisenet X **XNO-6120R**	Wisenet X **XNO-6085R**	Wisenet X **XNO-6080R**	Wisenet X **XNO-L6080R**	Wisenet X **XNO-6010R/6020R**
2MP	2MP	2MP	2MP	2MP
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
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
2M / 60fps	2M / 60fps	2M / 60fps	2M / 60fps	2M / 60fps
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)
20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)
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)
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
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(Wide) / F2.9(Tele)	2.4mm fixed (F2.0) (XNO-6010R) 4mm fixed (F1.4) (XNO-6020R)
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)
Auto / Manual / One shot AF	Simple focus (motorized V/F) / Manual	Simple focus (motorized V/F) / Manual	Simple focus (motorized V/F) / Manual	-
70m (229.66ft)	70m (229.66ft)	50m (164.04ft)	30m (98.43ft)	20m (65.61ft) (XNO-6010R) 30m (98.43ft) (XNO-6020R)
-	-	-	-	-
True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)
WDR (150dB)	WDR (150dB)	WDR (150dB)	WDR (120dB)	WDR (150dB)
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)
Support	Support (Built in Gyro sensor)	Support	Support	Support
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, Motion detection, Defocus 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
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
1 / 1	1 / 1	1 / 1	-	1 / 1
Bi-Directional	Bi-Directional	Bi-Directional	-	Bi-Directional
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
IP67, IP66, NEMA 4X, IK10	IP67, IP66, NEMA 4X, IK10	IP67, IP66, NEMA 4X, IK10	IP66, IK10	IP67, IP66, NEMA 4X, IK10
-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)
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, typical 5W (PoE)	Max. 8.8W (12V DC) Max. 9.7W (PoE)
Ø91.0 x 368.6mm (Ø3.58" x 14.51") 2.18Kg (4.81 lb)	Ø91.0 x 388.6mm (Ø3.58" x 15.30") 2.35Kg (5.18 lb)	Ø91.0 x 368.6.mm (Ø3.58" x 14.51") (Without Sunshield) 2.18Kg (4.81 lb)	Ø91.0 x 322.9mm (Ø3.58" x 12.71") 1.298Kg (4.25 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)
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, Lens distortion correction, Defog, Hallway View	Handover, WiseStream II, Advanced video analytics, Sound classification (Explosion, Gunshot, Glass breakage, Scream etc), Hallway View

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		Wisenet X XND-6085V	Wisenet X XND-6081VZ/6081FZ	Wisenet X XND-6080V	Wisenet X XND-6080RV
	Resolution	2MP	2MP	2MP	2MP
VIDEO	Imaging Device	1/2" 2.17M CMOS	1/2.8" 2M CMOS	1/2.8" 2M CMOS	1/2.8" 2M CMOS
	Video Compression Format	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG
	Resolution / Max. Frame Rate	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)
	Max. User Access	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 : 0.015Lux 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
	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)
	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)
	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
OPERATIONAL	IR Viewable Length	-	-	-	30m (98.43ft)
	Pan / Tilt / Rotate	±175° / ±73° / ±175°	±175° / 0~85° / ±175° (XND-6081VZ) ±175° / 0~90° / ±175° (XND-6081FZ)	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°
	Day & Night	True (ICR)	Auto (ICR)	True (ICR)	True (ICR)
	Backlight Compensation	WDR (150dB)	WDR (150dB)	WDR (150dB)	WDR (150dB)
	Digital Noise Reduction	SSNR**V** (2D+3D Noise filter)	SSNR**V** (2D+3D Noise filter)	SSNR**V** (2D+3D Noise filter)	SSNR**V** (2D+3D Noise filter)
	Digital Image Stabilization	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	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, Shock detection, 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	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
FEATURES	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	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	IK08	IP52, IK10 (XND-6081VZ) IP52, Plenum rated (XND-6081FZ)	IK08	IK08
	Operating Temperature	-30°C ~ +55°C (+22°F ~ +131°F) *Start up avoce -10°C (+14°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)
	Power	Max. 8.6W (12V DC) Max. 10.2W (PoE)	Max. 8.5W, typical 3.71W (12V DC) Max. 10W, typical 4.8W (PoE)	Max. 6W (12V DC) Max. 6.5W (PoE)	Max. 9W (12V DC) Max. 10W (PoE)
	Dimensions (WxHxD) / Weight	Ø160 x 140.0mm (Ø6.30" x 5.51") 1.25 kg (2.76 lb)	Ø160 x 125mm (6.30" x 4.92") 1.45kg (3.2lb) (XND-6081VZ) Ø205 x 150mm (8.07" x 5.91") 1.85kg (4.08lb) (XND-6081FZ)	Ø140.8 x 113.0mm (Ø5.54" x 4.45") 714g (1.57lb)	Ø140.8 x 113.0mm (Ø5.54" x 4.45") 724g (1.60 lb)
	Additional Features	extraLUX, Handover, WiseStream II, Advanced video analytics, Sound classification (Explosion, Gunshot, Glass breakage, Scream etc), Hallway View, Motorized Pan / Tilt / Rotate	Motorized Pan / Tilt / Rotate, Modular design, Anti dust	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

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Wisenet X **XND-L6080RV**	Wisenet X **XND-L6080V**	Wisenet X **XND-6010**	Wisenet X **XND-6020R**	Wisenet X **XND-6011F**
2MP	2MP	2MP	2MP	2MP
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
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
2M / 60fps	2M / 60fps	2M / 60fps	2M / 60fps	2M / 60fps
Multiple (Up to 5 Profiles)	Multiple (Up to 5 Profiles)	Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)
20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)
Color : 0.1Lux B/W : 0Lux (IR LED on)	Color : 0.1Lux B/W : 0.01Lux	Color : 0.055Lux (F2.0, 1/30sec) B/W : 0.0055Lux (F2.0, 1/30sec)	Color : 0.015Lux (F1.4, 1/30 sec) B/W : 0Lux (IR LED on)	Color : 0.055Lux (F2.0, 1/30 sec) B/W : 0.055Lux (F2.0, 1/30 sec)
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 US B type B
3.2 ~ 10mm (3.1x) motorized varifocal F1.6 (Wide) ~ F2.9 (Tele)	3.2 ~ 10mm (3.1x) motorized varifocal F1.6 (Wide) ~ F2.9 (Tele)	2.4mm fixed (F2.0)	4mm fixed (F1.4)	2.8mm fixed (F2.0)
H : 109.0°(Wide) ~ 33.0° (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 : 139.0° / V : 73.0° / D : 167.0°	H : 88.6° / V : 47.5° / D : 104.8°	H : 112° / V : 62° / D : 130°
Simple focus (motorized V/F) / Manual	Simple focus (motorized V/F) / Manual	-	-	-
30m (98.43ft)	-	-	-	30m (98.43ft)
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° ~ 355° / 0° ~ 47°/ 0° ~ 353°
True (ICR)	True (ICR)	True (ICR)	True (ICR)	Electrical
WDR (120dB)	WDR (120dB)	WDR (150dB)	WDR (150dB)	WDR (150dB)
SSNR**V** (2D+3D Noise filter)	SSNR**V** (2D+3D Noise filter)	SSNR**V** (2D+3D Noise filter)	SSNR**V** (2D+3D Noise filter)	SSNR**V** (2D+3D Noise filter)
Support	Support	Support	Support	Support
Tampering, Motion detection, Defocus detection	Tampering, 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	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
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
-	-	1 / 1	1 / 1	1 / 1
-	-	Bi-Directional	Bi-Directional	Bi-Directional
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
IK08	IK08	IK08	IK08	-
-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)
Max. 8W, typical 4W (PoE)	Max. 6W, typical 4W (PoE)	Max. 5.5W (12V DC) Max. 6W (PoE)	Max. 8W (12V DC) Max. 9W (PoE)	Max. 4.7W
Ø140.8 x 113.0mm (Ø5.54" x 4.45") 714g (1.60 lb)	Ø140.8 x 113.0mm (Ø5.54" x 4.45") 714g (1.60 lb)	Ø110.0 x 90.0mm (Ø4.33" x 3.54") 365g (0.80 lb)	Ø110.0 x 90.0mm (Ø4.33" x 3.54") 380g (0.84 lb)	Ø98.9 x 129.1mm (Ø3.89" x 5.08") * Use a 83 ~ 86mm (3.25" ~ 3.4") diameter hold saw
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	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

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		Wisenet X XNV-6120/6120R	Wisenet X XNV-6120RS	Wisenet X XNV-6085
	Resolution	2MP	2MP	2MP
VIDEO	Imaging Device	1/2.8" 2M CMOS	1/2.8" 2M CMOS	1/2" 2.17M CMOS
	Video Compression Format	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG
	Resolution / Max. Frame Rate	2M / 60fps	2M / 60fps	2M / 60fps
	Streaming Capacity	Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)
	Max. User Access	20 (Unicast)	20 (Unicast)	20 (Unicast)
	Min. Illumination	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	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)	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 : 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	Auto / Manual / One shot AF	Auto / Manual / One shot AF	Simple focus (motorized V/F) / Manual
OPERATIONAL	IR Viewable Length	70m (229.66ft) (XNV-6120R)	70m (229.66ft)	-
	Pan / Tilt / Rotate	0° ~ 354° / 0°~ 75° / 0°~ 355°	0° ~ 354° / 0°~ 75° / 0°~ 355°	±175° / ±73° / ±175°
	Day & Night	True (ICR)	True (ICR)	True (ICR)
	Backlight Compensation	WDR (150dB)	WDR (150dB)	WDR (150dB)
	Digital Noise Reduction	SSNR**V** (2D+3D Noise filter)	SSNR**V** (2D+3D Noise filter)	SSNR**V** (2D+3D Noise filter)
	Digital Image Stabilization	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, 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
FEATURES	Protocol	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
	Environment Protection	IP67, IP66, NEMA 4X, IK10	IP67, IP66, NEMA 4X, 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) * Start up above -35°C (-31°F)
	Power	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	Ø160.0 x 128.5mm (Ø6.30" x 5.06") 985g (2.17 lb) (XNV-6120) 995g (2.19 lb) (XNV-6120R)	Ø162 x 130.5mm (Ø6.38" x 5.14") 2.92kg (6.44lb)	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, SUS316L	extraLUX, Handover, WiseStream II, Advanced video analytics, Sound classification (Explosion, Gunshot, Glass breakage, Scream etc) Hallway View, Motorized Pan / Tilt / Rotate

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Wisenet X **XNV-6081Z**	Wisenet X **XNV-6080**	Wisenet X **XNV-6080R**	Wisenet X **XNV-6080RS**	Wisenet X **XNV-L6080**
2MP	2MP	2MP	2MP	2MP
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
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
2M / 60fps	2M / 60fps	2M / 60fps	2M / 60fps	2M / 60fps
Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)	Multiple (Up to 5 Profiles)
20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)
Color : 0.015Lux B/W : 0.0015Lux	Color : 0.015Lux B/W : 0.0015Lux	Color : 0.015Lux B/W : 0Lux (IR LED on)	Color : 0.015Lux B/W : 0Lux (IR LED on)	Color : 0.1 Lux, B/W : 0Lux (IR LED on)
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
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)	3.2 ~ 10mm motorized V/F F1.6(Wide) / F2.9(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)	H : 109.0°(Wide) ~ 33.2°(Tele) / V : 57.4°(Wide) ~ 18.7°(Tele) / D : 132.0°(Wide) ~ 38.0°(Tele)
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
-	-	50m (164.04ft)	50m (164.04ft)	30m (98.43ft)
±175° / ±85° / ±175°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°
AUTO (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)
WDR (150dB)	WDR (150dB)	WDR (150dB)	WDR (150dB)	WDR (120dB)
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)
-	Support	Support	Support	Support
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, Shock detection, 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	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, Motion detection, Defocus detection
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
1 / 1	1 / 1	1 / 1	1 / 1	-
Bi-Directional	Bi-Directional	Bi-Directional	Bi-Directional	-
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
IP67, IP66, IP6K9K, NEMA 4x, IK10+	IP67, IP66, NEMA 4X, IK10	IP67, IP66, NEMA 4X, IK10	IP67, IP66, NEMA 4X, IK10+	IP66, IK10
-50°C ~ +60°C (-58°F ~ +140°F) * Start up above -35°C (-31°F)	-40°C ~ +55°C (-40°F ~ +131°F)	-40°C ~ +55°C (-40°F ~ +131°F)	-40°C ~ +55°C (-40°F ~ +131°F)	-40°C ~ +55°C (-40°F ~ +131°F)
Optional	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)	Max. 14W (24V AC) Max. 11.5W (12V DC) Max. 12.95W (PoE)	Max. 8W, Typical 5W
Ø180 x 125mm (7.09" x 4.92") 1.75kg (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)	Ø162 x 120.5mm (Ø6.38" x 4.74") 2.68kg (5.91lb)	Ø160.0 x 118.5mm (Ø6.30" x 4.67") 995g (2.19 lb)
Motorized Pan / Tilt / Rotate, 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	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

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		Wisenet X XNV-L6080R	Wisenet X XNV-6022R/6022RM	Wisenet X XNV-6020R	Wisenet X XNV-6013M
	Resolution	2MP	2MP	2MP	2MP
VIDEO	Imaging Device	1/2.8" 2M CMOS	1/2.8" 2M CMOS	1/2.8" 2M CMOS	1/2.8" 2M CMOS
	Video Compression Format	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG
	Resolution / Max. Frame Rate	2M / 60fps	2M / 60fps	2M / 60fps	2M / 60fps
	Streaming Capacity	Multiple (Up to 5 Profiles)	Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)
	Max. User Access	20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)
	Min. Illumination	Color : 0.1 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)	Color : 0.04Lux (F2.0) B/W : 0.04Lux (F2.0)
	Video Output	CVBS 1.0Vpp, Micro USB type B	Micro USB type B	CVBS 1.0Vpp, Micro USB type B	Micro USB type B
	Lens	3.2 ~ 10mm (3.1x) motorized V/F (F1.6)	3.6mm fixed (F2.0)	4mm fixed (F1.4)	2.8mm fixed (F2.0)
	Angular Field of View	H : 109.0° (Wide) ~ 33.2° (Tele) / V : 57.4° (Wide) ~ 18.7° (Tele) / D : 132.0° (Wide) ~ 38.0° (Tele)	H : 94.8° / V : 49.3° / D : 114.3°	H : 88.6° / V : 47.5° / D : 104.8°	H : 110.2° / V : 62.7° / D : 125.4°
	Focus Control	Simple focus (motorized V/F) / Manual	-	-	-
OPERATIONAL	IR Viewable Length	30m (98.43ft)	15m (49.21ft)	30m (98.43ft)	-
	Pan / Tilt / Rotate	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	±5° / 0 ~ 67° / ±90°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	±5° / 12° / ±90°
	Day & Night	True (ICR)	True (ICR)	True (ICR)	Electrical
	Backlight Compensation	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)
	Digital Image Stabilization	Support	Support	Support	Support
	Video & Audio Analytics	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	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
FEATURES	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	-
	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
	Environment Protection	IP66, IK10	IP66, NEMA 4X, IK10	IP67, IP66, IK10	IP67, IK10, NEMA4X, IP6K9K
	Operating Temperature	-40°C ~ +55°C (-40°F ~ +131°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -20°C (-4°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -20°C (-4°F)	-40°C ~ +60°C (-40°F ~ +140°F) * Start up above -30°C (-22°F)
	Power	Max. 11W (PoE)	Max. 6.7W (PoE)	Max. 8W (12V DC) Max. 9W (PoE)	7.2W (PoE)
	Dimensions (WxHxD) / Weight	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)	105 x 74 x 128mm (4.13" x 2.91" x 5.04") 478g (1.04 lb)
	Additional Features	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	Handover, WiseStream II, Advanced video analytics, Sound classifiaction, (Explosion, Gunshot, Glass breakage, Scream etc), Hallway View, M12 Connector

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Wisenet X **XNV-6012M/6012**	Wisenet X **XNV-6011W/6011**	Wisenet X **XNV-6010**	Wisenet X **XNP-6550RH**	Wisenet X **XNP-6370RH**
2MP	2MP	2MP	2MP	2MP
1/2.8" 2M CMOS	1/2.8" 2M CMOS	1/2.8" 2M CMOS	1/2.8" 2.16M CMOS	1/1.9" 2M CMOS
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
2M / 60fps	2M / 60fps	2M / 60fps	2M / 60fps	2M / 60fps
Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)	Multiple (Up to 3 Profiles)
20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)	15 (Unicast)
Color : 0.04Lux B/W : 0.04Lux	Color : 0.055Lux B/W : 0.055Lux	Color : 0.055Lux B/W : 0.0055Lux	Color : 0.02Lux (1/30sec, F1.6) B/W : 0.002Lux (1/30sec, F1.6) 0Lux (IR LED on)	Color : 0.05Lux B/W : 0Lux (IR LED on)
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
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)	6mm ~ 222mm (IR Corrected Optical 37x) F1.5 (Wide) / F4.6 (Tele)
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)	H : 59.3°(Wide) ~ 1.9°(Tele) / V : 35.8°(Wide) ~ 1.1°(Tele)
-	-	-	AF / One-shot AF / Manual	AF / One-shot AF / Manual
-	-	-	500m (1,640ft)	350m (1,148.29ft)
±5° / 0 ~ 67° / ±90°	0° ~ 353° / 0° ~ 59° / 0° ~ 353°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	360° Endless / 190° (-5° ~ 185°) / -	360° Endless / 190° (-5° ~ 185°) / -
Auto (Electrical)	Auto (Electrical)	True (ICR)	True (ICR)	True (ICR)
WDR (150dB)	WDR (150dB)	WDR (150dB)	WDR (120dB)	WDR (120dB)
SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)	SSNR (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)
Support	Support	Support	Support (Built in Gyro sensor)	Support (Built in Gyro sensor)
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, Motion detection, Face 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, Face detection, Motion detection, Sound classification	Tampering, Crossing, Enter/Exit, (Dis)Appear, Audio detection
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
-	-	1 /1	4 / 2 (Relay)	4 / 2 (Relay)
Bi-directional	-	Bi-Directional	Bi-Directional	Bi-Directional
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
IP66, IK10, NEMA4X	IP66, NEMA4X, IK10	IP67, IP66, NEMA4X, IK10	IP66, IK10	IP66, IK10
-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)	-50°C ~ +55°C (-58°F ~ +131°F)
Max. 6.5W (PoE)	Max. 6.5W (PoE)	Max. 5.5W (12V DC) Max. 6W (PoE)	Max. 90W (24VAC) 60W (HPoE) Injector included	Max. 60.0W / 90.0W - Heater off / on, IR on (24V AC)
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)	Ø236.9 x 407.7mm (Ø9.33" x 16.05") 7.1Kg (15.65 lb)
Handover, WiseStream II, Advanced video analytics, Sound classifiaction, (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	Optical Defog, WiseStream II, Advanced video analytics, Auto tracking	Defog, WiseStream, Auto tracking

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		Wisenet X XNP-6320H/6320	Wisenet X XNP-6320HS	Wisenet X XNP-6120H	Wisenet X XNP-6040H
	Resolution	2MP	2MP	2MP	2MP
VIDEO	Imaging Device	1/2.8" 2.4M CMOS	1/2.8" 2.4M CMOS	1/2.8" 2M CMOS	1/2.8" 2M CMOS
	Video Compression Format	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG
	Resolution / Max. Frame Rate	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)
	Max. User Access	20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)
	Min. Illumination	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, 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	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 : 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	Auto / Manual / One shot AF	Auto / Manual / One shot AF	Auto / Manual / One shot AF	Auto / Manual / One shot AF
OPERATIONAL	IR Viewable Length	-	-	-	-
	Pan / Tilt / Rotate	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)
	Backlight Compensation	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)
	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, 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
FEATURES	Protocol	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)	1 / 1	1 / 1
	Audio	Bi-Directional	Bi-Directional	Bi-Directional	Bi-Directional
	Edge Storage	SD/SDHC/SDXC, NAS, Local PC	SD/SDHC/SDXC, NAS, Local PC	SD/SDHC/SDXC, NAS, Local PC	SD/SDHC/SDXC, NAS, Local PC
	Environment Protection	IK10 (with XNP-6320H)	IP67, IP66, NEMA4X, IK10	IP66, IK10	IP66, IK10
	Operating Temperature	(XNP-6320H) -50°C ~ +55°C (-58°F ~ +131°F) (24V AC) * Less than 90% RH -35°C ~ +55°C (-31°F ~ +131°F) (PoE+) * Start up should be done at above -30°C (-22°F) (XNP-6320) -10°C ~ +55°C (+14°F ~ +131°F)	-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	(XNP-6320H) Max. 24.0W - Heater off (24V AC, PoE+) Max. 65.0W - Heater on (24V AC) (XNP-6320) Max. 20.0W (24V AC, PoE+)	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	Ø152.0 x 218.0mm (Ø5.98" x 8.58") 2.2Kg (4.85 lb)	Ø227 x 296mm (Ø8.94" x 11.65") 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") 0.78 kg (1.72 lb)
	Additional Features	WiseStream II, Advanced video analytics, Auto Tracking, Sound classification (Explosion, Gunshot, Glass breakage, Scream etc)	WiseStream II, Advanced video analytics, Auto Tracking, Sound classification (Explosion, Gunshot, Glass breakage, Scream etc), SUS316L	WiseStream II, Advanced video analytics, Auto Tracking, Sound classification (Explosion, Gunshot, Glass breakage, Scream etc)	WiseStream II, Advanced video analytics, Auto Tracking, Sound classification (Explosion, Gunshot, Glass breakage, Scream etc)

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Wisenet X PLUS
XND-8081VZ

Wisenet X PLUS
XND-8081FZ

Wisenet X PLUS
XNV-8081Z

Type	Indoor vandal dome	Indoor flush mount	Outdoor vandal dome
Imaging Device	1/1.8" 6M CMOS		
Video Compression Format	H.265, H.264, MJPEG		
Resolution / Max. Frame Rate	5M/30fps		
Streaming Capacity	Multiple (Up to 10 Profiles)		
Max. User Access	20 (Unicast)		
Min. Illumination	Color : 0.07Lux B/W : 0.007Lux		
Video Output	CVBS 1.0Vpp, Micro USB type B		
Lens	3.6~9.4mm (2.6x) motorized V/F (F1.2)		
Angular Field of View	H : 102.5°(Wide) ~ 38.7°(Tele) / V : 74.2°(Wide) ~ 29.0°(Tele)/ D : 135.5°(Wide) ~ 48.6°(Tele)		
Focus Control	Simple focus (motorized V/F) / Manual		
Pan / Tilt / Rotate	±175° / 0~85° / ±175°		
Day & Night	True (ICR)		
Backlight Compensation	WDR (120dB)		
Digital Noise Reduction	SSNR**V** (2D+3D Noise filter)		
Digital Image Stabilization	Support (Built in Gyro sensor)		
Video & Audio Analytics	Tampering, Loitering, Directional detection, Fog detection,Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Face detection, Motion detection, Sound classification, Shock detection, Heatmap, Peaple counting, Queue management, Audio Playback on event		
Protocol	ONVIF profile S/G, SUNAPI		
	1/1		
Audio	Bi-Directional		
Edge Storage	SD/SDHC/SDXC, NAS, Local PC		
Environment Protection	IP52, IK10	IP52, Plenum rated(UL2820)	IP67, IP66, IP6K9K, NEMA 4X, IK10+
Operating Temperature	-25°C ~ +60°C (-13°F ~ +140°F)		-50°C ~ +60°C (-58°F ~ +140°F) *Start up above -35°C (-31°F)
Power	Max. 8.5W (12V DC) Max. 10W (PoE)		Max. 11W (24V AC) Max. 9.5W (12V DC) Max. 11W (PoE)
Dimensions (WxHxD) / Weight	Ø160 x 125mm (6.30" x 4.92") 1.45Kg (3.2 lb)	Ø205 x 155mm (8.07" x 6.10") 1.85Kg (4.08 lb)	Ø180 x 125mm (7.09" x 4.92") 1.75kg (3.86 lb)
Additional Features	Motorized Pan / Tilt / Rotate, Modular design		

※ Design and specifications are subject to change without notice.

Wisenet X PLUS
XND-6081VZ

Wisenet X PLUS
XND-6081FZ

Wisenet X PLUS
XNV-6081Z

Type	Indoor vandal dome	Indoor flush mount	Outdoor vandal dome
Imaging Device	1/2.8" 2M CMOS		
Video Compression Format	H.265, H.264, MJPEG		
Resolution / Max. Frame Rate	2M/60fps		
Streaming Capacity	Multiple (Up to 10 Profiles)		
Max. User Access	20 (Unicast)		
Min. Illumination	Color : 0.15Lux B/W : 0.0015Lux		
Video Output	CVBS 1.0Vpp, Micro USB type B		
Lens	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)		
Focus Control	Simple focus (motorized V/F) / Manual		
Pan / Tilt / Rotate	±175° / 0~85° / ±175°		
Day & Night	True (ICR)		
Backlight Compensation	WDR (150dB)		
Digital Noise Reduction	SSNRV (2D+3D Noise filter)		
Digital Image Stabilization	Support (Built in Gyro sensor)		
Video & Audio Analytics	Tampering, Loitering, Directional detection, Fog detection,Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Face detection, Motion detection, Sound classification, Shock detection, Heatmap, Peaple counting, Queue management, Audio Playback on event		
Protocol	ONVIF profile S/G, SUNAPI		
	1/1		
Audio	Bi-Directional		
Edge Storage	SD/SDHC/SDXC, NAS, Local PC		
Environment Protection	IP52, IK10	IP52, Plenum rated(UL2820)	IP67, IP66, IP6K9K, NEMA 4X, IK10+
Operating Temperature	-25°C ~ +60°C (-13°F ~ +140°F)		-50°C ~ +60°C (-58°F ~ +140°F) *Start up above -35°C (-31°F)
Power	Max. 8.5W (12V DC) Max.10W (PoE)		Max. 11W (24V AC) Max. 9.5W (12V DC) Max. 11W (PoE)
Dimensions (WxHxD) / Weight	Ø160 x 125mm (6.30" x 4.92") 1.45Kg (3.2 lb)	Ø205 x 155mm (8.07" x 6.10") 1.85Kg (4.08 lb)	Ø180 x 125mm (7.09" x 4.92") 1.75kg (3.86 lb)
Additional Features	Motorized Pan / Tilt / Rotate, Modular design		

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Accessory Configuration

XNV-6081Z/8081Z

White Acc

SBP-187HMW
Hanging Mount

SBP-167HMW
Hanging Mount

SBP-300CMW
Ceiling Mount

SBP-300WMW1
Wall Mount

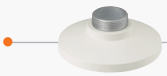
SBP-300WMW
Wall Mount (swan-neck)

SBP-300PMW
Pole mount

SBP-300KMW
Corner mount

XND-6081VZ/8081VZ

Ivory Acc



SBP-187HM
Hanging Mount

SBP-167HM
Hanging Mount

SBP-300LM
Parapet Mount

SBP-300CM
Ceiling Mount

SBP-300WM1
Wall Mount

SBP-300WM
Wall Mount (Swan-neck)

SBP-300NB
Installation Box

SBP-300B
Wall Mount Base

SBP-300PM
Pole Mount

SBP-300KM
Corner Mount

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WISENET

Hanwha Techwin America
500 Frank W. Burr Blvd. Suite 43 Teaneck, NJ 07666
Toll Free : 877.213.1222 Direct : 201.325.6920
Fax : 201.373.0124
www.hanwhasecurity.com

Hanwha Techwin America

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