



Product line-up

1st Half 2018

NETWORK Wisenet X series



Wisenet X
XNB-8000



Wisenet X
XNB-6005



Wisenet X
XNB-6000



Wisenet X
XNB-6001



SLA-T4615/T4680



SLA-T4615V/T4680V



SLA-T2415/T2480



SLA-T2415V/T2480V



SLA-T1080F

Preliminary

New

	5MP	2MP	2MP	2MP					2MP
VIDEO									
Imaging Device	1/1.8" 6M CMOS	1/1.9" 2M CMOS	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	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	5M / 30fps	2M / 60fps	2M / 60fps	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)					-
Max. User Access	20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)					-
Min. Illumination	Color: 0.07 Lux B/W: 0.007 Lux	Color: 0.006 Lux B/W: 0.0006 Lux	Color: 0.01 Lux B/W: 0.001 Lux	-	0.06 Lux	0.06 Lux	0.05 Lux	0.05 Lux	0.03Lux
Video Output	CwVBS 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	-	-	-	-	4.6mm 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: 73.8° / V: 39.6° / D: 86.8°	H: 73.8° / V: 39.6° / D: 86.8°	H: 139.0° / V: 73.0° / D: 167.0°	H: 139.0° / V: 73.0° / D: 167.0°	H: 187° / V: 113.9°
Focus Control	Simple Focus / Manual	Simple Focus / Manual	Simple Focus / Manual	-	Fixed	Fixed	Fixed	Fixed	Fixed
OPERATIONAL									
IR Viewable Length	-	-	-	-					-
Pan / Tilt / Rotate	-	-	-	-					-
Day & Night	True (ICR)	True (ICR)	True (ICR)	-	E-D/N	E-D/N	E-D/N	E-D/N	Electrical
Backlight Compensation	WDR (120dB)	WDR (150dB)	WDR (150dB)	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 (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	Tampering, Loitering, Directional Detection, Defocus Detection, Fog & Dust Detection, Virtual Line, Enter/ Exit, (Dis)Appear, Face Detection, Motion Detection, Digital Auto Tracking, People counting, Heatmap, Queue management					-
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	-	-	-	-					-
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)	-30°C ~ +55°C (-22°F ~ +131°F)	-30°C ~ +55°C (-22°F ~ +131°F)	-30°C ~ +55°C (-22°F ~ +131°F)	-30°C ~ +55°C (-22°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. 9W (24V AC) Max. 8W (12V DC) Max. 8.5W (PoE)	Max. 8W (24V AC) Max. 6.5W (12V DC) Max. 7.5W (PoE)	12V DC, PoE					-
Dimensions (WxHxD) / Weight	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)	131.1 x 28 x 86mm (5.16" x 1.10" x 3.39")	Ø25 x 44mm (Ø0.98" x 1.73")	30 x 45 x 20.4mm (1.18" x 1.77" x 0.8")	Ø24 x 50mm (Ø0.94" x 1.97")	30 x 45 x 27.9mm (1.18" x 1.77" x 1.1")	Ø68.9 x 35mm (Ø2.71" x 1.38") (Lens) 8m (314.96") (Cable) 321g (0.71 lb)
Additional Features	DIS with Gyro Sensor, Handover, WiseStream II, Advanced Video Analytics, Sound Classification (Explosion, Gunshot, Glass Breakage, Scream etc), Hallway View	DIS with Gyro Sensor, Handover, WiseStream II, Advanced Video Analytics, Sound Classification (Explosion, Gunshot, Glass Breakage, Scream etc), Hallway View	DIS with Gyro Sensor, Handover, WiseStream II, Advanced Video Analytics, Sound Classification (Explosion, Gunshot, Glass Breakage, Scream etc), Hallway View						Lens module for XNB-6001

NETWORK Wisenet X series



WISENET X
XNO-8080R



WISENET X
XNO-8020R/8030R/8040R



WISENET X
XNO-6120R



WISENET X
XNO-6085R



WISENET X
XNO-6080R



WISENET X
XNO-L6080R



WISENET X
XNO-6010R/6020R

	5MP	5MP	2MP	2MP	2MP	2MP	2MP
VIDEO							
Imaging Device	1/1.8" 6M CMOS	1/1.8" 6M CMOS	1/2.8" 2M CMOS	1/1.9" 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	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG
Resolution / Max. Frame Rate	5M / 30fps	5M / 30fps	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)	Multiple (Up to 5 Profiles)	Multiple (Up to 10 Profiles)
Max. User Access	20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)
Min. Illumination	Color: 0.07 Lux B/W: 0 Lux (IR LED on)	Color: 0.16 Lux B/W: 0 Lux (IR LED on)	Color: 0.03 Lux B/W: 0 Lux (IR LED on)	Color: 0.004 Lux B/W: 0 Lux (IR LED on)	Color: 0.015 Lux B/W: 0 Lux (IR LED on)	Color: 0.1 Lux B/W: 0 Lux (IR LED on)	Color: 0.055 Lux (XNO-6010R), 0.01 Lux (XNO-6020R) B/W: 0 Lux (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	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)	5.2 ~ 62.4mm (Optical 12X)	4.1 ~ 16.4mm (Optical 4x)	2.8 ~ 12mm (4.3x) motorized V/F (F1.4)	3.2 ~ 10mm motorized V/F (TBD)	2.4mm fixed (F2.0) (XNO-6010R) 4mm fixed (F1.2) (XNO-6020R)
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: 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) ~ 14.5° (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)	TBD	H: 139.0° / V: 73.0° / D: 167.0° (XNO-6010R) H: 88.6° / V: 47.5° / D: 104.8° (XNO-6020R)
Focus Control	Simple Focus (motorized V/F) / Manual	-	Auto / Manual / One shot AF	Simple Focus (motorized V/F) / Manual	Simple Focus (motorized V/F) / Manual	Simple focus (motorized V/F) / Manual	-
OPERATIONAL							
IR Viewable Length	50m (164.04ft)	30m (98.43ft)	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)	True (ICR)	True (ICR)
Backlight Compensation	WDR (120dB)	WDR (120dB)	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)	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise Filter)
Digital Image Stabilization	Support	Support	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, 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, 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	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
FEATURES							
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	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	SD/SDHC/SDXC, NAS, Local PC
Environment Protection	IP67, IP66, NEMA 4X, IK10	IP67, IP66, NEMA 4X, IK10	IP67, IP66, 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	-40°C ~ +55°C (-40°F ~ +131°F) * Start up above -20°C (-4°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -20°C (-4°F)	-40°C ~ +55°C (-40°F ~ +131°F) * 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)	-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. 8.8W (12V DC) Max. 9.8W (PoE)	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)	TBD (PoE)	Max. 7.8W (12V DC) Max. 8.8W (PoE)
Dimensions (WxHxD) / Weight	Ø91.0 x 368.6mm (Ø3.58" x 14.51") (Without Sunshield) 2.18Kg (4.81 lb)	Ø120.0 x 296.0mm (Ø4.72" x 11.65") (Without Sunshield) 1.3Kg (2.87 lb)	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)	TBD	Ø70.0 x 296.0mm (Ø2.76" x 11.65") (Without Sunshield) 1.3Kg (2.87 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	DIS with Gyro Sensor, 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

NETWORK Wisenet X series



Preliminary

New

	5MP	5MP	5MP	4.2MP	2MP	2MP	2MP	2MP
VIDEO								
Imaging Device	1/1.8" 6M CMOS	1/1.8" 6M CMOS	1/1.8" 6M CMOS	1/1.8" 6M CMOS	1/1.9" 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	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	4M / 30fps	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)	Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)	Multiple (Up to 5 Profiles)
Max. User Access	20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)
Min. Illumination	Color : 0.07 Lux B/W : 0 Lux (IR LED on)	Color : 0.16 Lux B/W : 0 Lux (IR LED on)	Color : 0.16 Lux B/W : 0.16 Lux	Color : 0.07 Lux B/W : 0 Lux (IR LED on)	Color : 0.004 Lux B/W : 0.0004 Lux	Color : 0.015 Lux B/W : 0.0015 Lux	Color : 0.015 Lux B/W : 0 Lux (IR LED on)	Color : 0.1 Lux B/W : 0 Lux (IR LED on)
Video Output	CVBS 1.0Vpp, Micro USB type B	CVBS 1.0Vpp, Micro USB type B	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	CVBS 1.0Vpp, Micro USB type B
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)	3.7mm fixed (F1.6)	1.6mm fixed (F1.6)	4.1 ~ 16.4mm (Optical 4X)	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 (TBD)
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 : 97.5° / V : 71.9° / D : 126.2°	H : 187° / V : 187° / D : 187°	H : 100° (Wide) ~ 26.2° (Tele) / V : 54° (Wide) ~ 14.5° (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)	TBD
Focus Control	Simple Focus (motorized V/F) / Manual	-	Manual	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
OPERATIONAL								
IR Viewable Length	30m (98.43ft)	30m (98.43ft)	-	15m (49.21ft)	-	-	30m (98.43ft)	30m (98.43ft)
Pan / Tilt / Rotate	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 355° / 0° ~ 47° / 0° ~ 353°	-	±185° / ±73° / ±110°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°
Day & Night	True (ICR)	True (ICR)	Auto (Electrical)	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)
Backlight Compensation	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)	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)	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)	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, 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	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
FEATURES								
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	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	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	SD/SDHC/SDXC, NAS, Local PC	SD/SDHC/SDXC, NAS, Local PC
Environment Protection	IK08	IK08	-	-	IP51, 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)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -10°C (+14°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)
Power	Max. 9W (12V DC) Max. 10W (PoE)	Max. 8W (12V DC) Max. 9W (PoE)	Max. 4.7W	TBD	TBD	Max. 6W (12V DC) Max. 6.5W (PoE)	Max. 9W (12V DC) Max. 10W (PoE)	TBD (PoE)
Dimensions (WxHxD) / Weight	Ø140.8 x 113.0mm (Ø5.54" x 4.45") 628g (1.39 lb) (XND-8080R) 732g (1.61 lb) (XND-8080RV)	Ø110.0 x 90.0mm (Ø4.33" x 3.54") 365g (0.80 lb)	Ø98.9 x 129mm (Ø3.89" x 5.08") 275g (0.61 lb)	TBD	TBD	Ø140.8 x 113.0mm (Ø5.54" x 4.45") 610g (1.34 lb)	Ø140.8 x 113.0mm (Ø5.54" x 4.45") 624g (1.38 lb)	Ø140.8 x 113.0mm (Ø5.54" x 4.45") 624g (1.38 lb) (XND-L6080R) 714g (1.60 lb) (XND-L6080RV)
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 analytics, Sound classification (Explosion, Gunshot, Glass Breakage, Scream etc)	M12 Connector(XNF-8010RVM), Built-in MIC, On Board Dewarping, Handover, WiseStream II, Heatmap, People counting	DIS with Gyro Sensor, 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	WiseStream II, Lens distortion correction, Defog, Hallway View

NETWORK Wisenet X series

Preliminary



WISENET X
XND-L6080V

New



WISENET X
XND-6080V



WISENET X
XND-6080RV



WISENET X
XND-6011F

Preliminary



WISENET X
XNV-6120RS

New

Preliminary



WISENET X
XNV-6080RS

New

Preliminary



WISENET X
XNV-L6080

New

Preliminary



WISENET X
XNV-L6080R

New

	2MP	2MP	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	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	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	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)	Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)	Multiple (Up to 5 Profiles)	Multiple (Up to 5 Profiles)
Max. User Access	20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)
Min. Illumination	Color: 0.1Lux B/W: 0.01Lux	Color: 0.015 Lux B/W: 0.0015 Lux	Color: 0.015 Lux B/W: 0 Lux (IR LED on)	Color: 0.055 Lux B/W: 0.055 Lux	Color: 0.03Lux B/W: 0Lux (IR LED on)	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)
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	CVBS 1.0Vpp, Micro USB type B	CVBS 1.0Vpp, Micro USB type B
Lens	3.2 ~ 10mm motorized V/F (TBD)	2.8 ~ 12mm (4.3x) motorized V/F (F1.4)	2.8 ~ 12mm (4.3x) motorized V/F (F1.4)	2.8mm fixed (F2.0)	5.2 ~ 62.4mm (Optical 12x) F1.6(Wide) / F3.0(Tele)	2.8 ~ 12mm (4.3x) motorized V/F (F1.4)	3.2 ~ 10mm motorized V/F (TBD)	3.2 ~ 10mm motorized V/F (TBD)
Angular Field of View	TBD	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: 112° / V: 62° / D: 130°	H: 54.58°(Wide) ~ 5.30°(Tele) / V: 32.19°(Wide) ~ 3.00°(Tele) / D: 61.40°(Wide) ~ 6.06°(Tele)	H: 119.5°(Wide) ~ 27.9°(Tele) / V: 62.8°(Wide) ~ 15.7°(Tele) / D: 142.1°(Wide) ~ 32.0°(Tele)	TBD	TBD
Focus Control	Simple focus (motorized V/F) / Manual	Simple Focus (motorized V/F) / Manual	Simple Focus (motorized V/F) / Manual	Manual	Auto / Manual / One shot AF	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)	-	70m (229.66ft)	50m (164.04ft)	-	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° ~ 355° / 0° ~ 47° / 0° ~ 353°	0° ~ 354° / 0° ~ 75° / 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)	Auto (Electrical)	True (ICR)	True (ICR)	True (ICR)	True (ICR)
Backlight Compensation	WDR (120dB)	WDR (150dB)	WDR (150dB)	WDR (150dB)	WDR (150dB)	WDR (150dB)	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)	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)
Digital Image Stabilization	Support	Support	Support	Support	Support (Built in Gyro sensor)	Support	Support	Support
Video & Audio Analytics	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	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, 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, Motion detection	Tampering, Motion detection
FEATURES								
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	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	Uni-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	SD/SDHC/SDXC, NAS, Local PC	SD/SDHC/SDXC, NAS, Local PC
Environment Protection	IK08	IK08	IK08	-	IP67, IP66, NEMA 4X, IK10+	IP67, IP66, NEMA 4X, IK10+	IP67, 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)	-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)	-40°C ~ +55°C (-40°F ~ +131°F)
Power	TBD (PoE)	Max. 6W (12V DC) Max. 6.5W (PoE)	Max. 9W (12V DC) Max. 10W (PoE)	Max. 4.7W	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)	TBD (PoE)	TBD (PoE)
Dimensions (WxHxD) / Weight	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 (1.57 lb)	Ø140.8 x 113.0mm (Ø5.54" x 4.45") 724g (1.60 lb)	Ø98.9 x 129mm (Ø3.89" x 5.08") 275g (0.61 lb)	Ø162 x 134.5mm (Ø6.38" x 5.3") TBD	Ø162 x 120.5mm (Ø6.38" x 4.74") TBD	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	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 analytics, Sound classification (Explosion, Gunshot, Glass Breakage, Scream etc)	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, SUS316L	WiseStream II, Lens distortion correction, Defog, Hallway View	WiseStream II, Lens distortion correction, Defog, Hallway View

NETWORK Wisenet X series



WISENET X
XND-6010



WISENET X
XND-6020R



WISENET X
XNV-6022R

New



WISENET X
XNV-6022RM

New



WISENET X
XNV-6013M

New



WISENET X
XNV-6012M/6012

New



WISENET X
XNV-6120/6120R



WISENET X
XNV-6080R

	2MP	2MP	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	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	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	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)	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)	20 (Unicast)	20 (Unicast)
Min. Illumination	Color : 0.055 Lux B/W : 0.0055 Lux	Color : 0.015 Lux B/W : 0 Lux (IR LED on)	Color : 0.055 Lux B/W : 0 Lux (IR LED on)	Color : 0.055 Lux B/W : 0 Lux (IR LED on)	Color : 0.055 Lux B/W : 0.0055 Lux	Color : 0.055 Lux B/W : 0.0055 Lux	Color : 0.03 Lux B/W : 0.003 Lux (XNV-6120) Color : 0.03 Lux B/W : 0 Lux (IR LED on) (XNV-6120R)	Color : 0.015 Lux B/W : 0 Lux (IR LED on)
Video Output	CVBS 1.0Vpp, Micro USB type B	CVBS 1.0Vpp, Micro USB type B	Micro USB type B	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
Lens	2.4mm fixed (F2.0)	4mm fixed (F1.4)	3.6mm fixed (F2.0)	3.6mm fixed (F2.0)	2.8mm fixed (F2.0)	2.4mm fixed (F2.0)	5.2 ~ 62.4mm (Optical 12x)	2.8 ~ 12mm (4.3x) motorized V/F (F1.4)
Angular Field of View	H : 139.0° / V : 73.0° / D : 167.0°	H : 88.6° / V : 47.5° / D : 104.8°	H : 96.4° / V : 50.5° / D : 116°	H : 96.4° / V : 50.5° / D : 116°	H : 110.2° / V : 62.7° / D : 125.4°	H : 139° / V : 73° / D : 167°	H : 54.58° (Wide) ~ 5.30° (Tele) / V : 32.19° (Wide) ~ 3.00° (Tele) / D : 61.40° (Wide) ~ 6.06° (Tele)	H : 119.5° (Wide) ~ 7.9° (Tele) / V : 62.8° (Wide) ~ 15.7° (Tele) / D : 142.11° (Wide) ~ 32.0° (Tele)
Focus Control	-	-	Manual	Manual	Manual	Manual	Auto / Manual / One shot AF	Simple Focus (motorized V/F) / Manual
OPERATIONAL								
IR Viewable Length	-	30m (98.43ft)	15m (49.21ft)	15m (49.21ft)	-	-	70m (229.66ft) (XNV-6120R)	50m (164.04ft)
Pan / Tilt / Rotate	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	±5° / 0° ~ 67° / ±90°	±5° / 0° ~ 67° / ±90°	±5° / 12° / ±90°	±5° / 0° ~ 67° / ±90°	0° ~ 354° / 0° ~ 75° / 0° ~ 355°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°
Day & Night	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)
Backlight Compensation	WDR (150dB)	WDR (150dB)	WDR (150dB)	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)	SSNRV (2D+3D Noise Filter)	SSNRV (2D+3D Noise Filter)	SSNRV (2D+3D Noise Filter)
Digital Image Stabilization	Support	Support	Support	Support	Support	Support	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, 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	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, 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
FEATURES								
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	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	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	SD/SDHC/SDXC, NAS, Local PC	SD/SDHC/SDXC, NAS, Local PC
Environment Protection	IK08	IK08	IP66, NEMA 4X, IK10	IP66, NEMA 4X, IK10	IP67, IK10, NEMA4X, IP6K9K	IP66, IK10, NEMA4X	IP67, 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)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -20°C (-4°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -20°C (-4°F)	-40°C ~ +60°C (-40°F ~ +140°F) * Start up above -30°C (-22°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -20°C (-4°F)	-40°C ~ +55°C (-40°F ~ +131°F) * Start up above -35°C (-31°F)	-40°C ~ +55°C (-40°F ~ +131°F)
Power	Max. 5.5W (12V DC) Max. 6W (PoE)	Max. 8W (12V DC) Max. 9W (PoE)	TBD (PoE)	TBD (PoE)	TBD (PoE)	TBD (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)
Dimensions (WxHxD) / Weight	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)	99.0 x 52.0 x 100.0mm (3.9" x 2.05" x 3.94") (TBD)	99.0 x 52.0 x 100.0mm (3.9" x 2.05" x 3.94") (TBD)	105 x 74 x 128mm (4.13" x 2.91" x 5.04") (TBD)	99.0 x 52.0 x 100.0mm (3.9" x 2.05" x 3.94") (TBD)	Ø160.0 x 128.5mm (Ø6.3" x 5.06") 995g (2.19 lb)	Ø160.0 x 118.5mm (Ø6.3" x 4.67") 995g (2.19 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, M12 Connector	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, 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

NETWORK Wisenet X series



WISENET X
XNV-6085



WISENET X
XNV-6080



WISENET X
XNV-8080R



WISENET X
XNV-8080RS

New



WISENET X
**XNV-8020R/8030R/
8040R**



WISENET X
XNV-6011



WISENET X
XNV-6010



WISENET X
XNV-6020R

	2MP	2MP	5MP	5MP	5MP	2MP	2MP	2MP
VIDEO								
Imaging Device	1/1.9" 2M CMOS	1/2.8" 2M CMOS	1/1.8" 6M CMOS	1/1.8" 6M CMOS	1/1.8" 6M 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	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	5M / 30fps	5M / 30fps	5M / 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)	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)	20 (Unicast)	20 (Unicast)
Min. Illumination	Color: 0.005 Lux B/W: 0 Lux (IR LED on)	Color: 0.015 Lux B/W: 0.0015 Lux	Color: 0.07 Lux B/W: 0 Lux (IR LED on)	Color: 0.07 Lux B/W: 0 Lux (IR LED on)	Color: 0.2 Lux B/W: 0 Lux (IR LED on)	Color: 0.055 Lux B/W: 0.055 Lux	Color: 0.055 Lux B/W: 0.055 Lux	Color: 0.015 Lux B/W: 0 Lux (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	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)	2.8 ~ 12mm (4.3x) motorized V/F (F1.4)	3.9 ~ 9.4mm (2.4x) motorized V/F (F1.3)	3.9 ~ 9.4mm (2.4x) motorized V/F (F1.3)	3.7mm fixed (F1.6) (XNV-8020R) 4.6mm fixed (F1.6) (XNV-8030R) 7.0mm fixed (F1.6) (XNV-8040R)	2.8mm fixed (F2.0)	2.4mm fixed (F2.0)	4mm fixed (F1.4)
Angular Field of View	H: 100°(Wide) ~ 26.2°(Tele) / V: 54°(Wide) ~ 14.5°(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: 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) H: 77.9° / V: 57.9° / D: 98.7° (XNV-8030R) H: 50.7° / V: 37.8° / D: 63.8° (XNV-8040R)	H: 112° / V: 62° / D: 130°	H: 139.0° / V: 73.0° / D: 167.0°	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	-	Manual	-	-
OPERATIONAL								
IR Viewable Length	-	-	50m (164.04ft)	50m (164.04ft)	30m (98.43ft)	-	-	30m (98.43ft)
Pan / Tilt / Rotate	±185° / ±73° / ±110°	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° ~ 353° / 0° ~ 59° / 0° ~ 353°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°
Day & Night	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)
Backlight Compensation	WDR (150dB)	WDR (150dB)	WDR (120dB)	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)	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	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, 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, 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, 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
FEATURES								
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	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	1 / 1
Audio	Bi-Directional	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	SD/SDHC/SDXC, NAS, Local PC	SD/SDHC/SDXC, NAS, Local PC
Environment Protection	IP67, IP66, NEMA 4X	IP67, IP66, NEMA 4X, IK10	IP67, IP66, NEMA 4X, IK10	IP67, IP66, NEMA 4X, IK10+	IP67, IP66, IK10	IP66, IK10, NEMA4X	IP67, IP66, NEMA 4X, IK10	IP67, IP66, 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)	-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)	-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. 1.5W (24V AC) Max. 12W (12V DC) Max. 12.95W (PoE)	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 (12V DC) Max. 9W (PoE)	Max. 6.5W (PoE)	Max. 5.5W (12V DC) Max. 6W (PoE)	Max. 8W (12V DC) Max. 9W (PoE)
Dimensions (WxHxD) / Weight	TBD	Ø160.0 x 118.5mm (Ø6.3" x 4.67") 985g (2.17 lb)	Ø160.0 x 118.5mm (Ø6.3" x 4.67") 1.01Kg (2.23 lb)	Ø162 X 120.5mm (Ø6.38" x 4.74") TBD	Ø120.0 x 97.5mm (Ø4.72" x 3.84") 625g (1.38 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)	Ø120.0 x 97.5mm (Ø4.72" x 3.84") 615g (1.36 lb)
Additional Features	Handover, WiseStream II, Advanced 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	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

NETWORK Wisenet X/ P series



WISENET X
XNP-6040H



WISENET X
XNP-6120H



WISENET X
XNP-6370RH



WISENET X
XNP-6320H



WISENET X
XNP-6320



WISENET X
XNP-6320HS



WISENET P
PNO-9080R



WISENET P
PND-9080R

	2MP	2MP	2MP	2MP	2MP	2MP	2MP	
VIDEO								
Imaging Device	1/2.8" 2M CMOS	1/2.8" 2M CMOS	1/1.9" 2M CMOS	1/2.8" 2.4M CMOS	1/2.8" 2.4M CMOS	1/2.8" 2.4M CMOS	1/1.7" 12.4M CMOS	1/1.7" 12.4M CMOS
Video Compression Format	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG
Resolution / Max. Frame Rate	2M / 60fps	2M / 60fps	2M / 60fps	2M / 60fps	2M / 60fps	2M / 60fps	12M / 20fps, 8M / 30fps	12M / 20fps, 8M / 30fps
Streaming Capacity	Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)	Multiple (Up to 3 Profiles)	Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)	Multiple (Up to 3 Profiles)	Multiple (Up to 3 Profiles)
Max. User Access	20 (Unicast)	20 (Unicast)	15 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)	15 (Unicast)	15 (Unicast)
Min. Illumination	Color : 0.015 Lux B/W : 0.0015 Lux	Color : 0.03 Lux B/W : 0.003 Lux	Color : 0.05 Lux B/W : 0 Lux (IR LED on)	Color : 0.05Lux B/W : 0.005Lux	Color : 0.05Lux B/W : 0.005Lux	Color : 0.05Lux B/W : 0.005Lux	Color : 0.3 Lux B/W : 0 Lux (IR LED on)	Color : 0.3 Lux B/W : 0 Lux (IR LED on)
Video Output	CVBS 1.0Vpp, Micro USB type B	CVBS 1.0Vpp, Micro USB type B	CVBS 1.0Vpp	CVBS 1.0Vpp, Micro USB type B	CVBS 1.0Vpp, Micro USB type B	CVBS 1.0Vpp, Micro USB type B	CVBS 1.0Vpp, DIP Connector Type	CVBS 1.0Vpp, DIP Connector Type
Lens	2.8 ~ 12mm (optical 4.3x)	5.2 ~ 62.4mm (Optical 12X)	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)	4.44 ~ 142.6mm (Optical 32x) F1.6 (Wide) / F4.4 (Tele)	4.5 ~ 10mm (2.2x) motorized V/F (F1.6)	4.5 ~ 10mm (2.2x) motorized V/F (F1.6)
Angular Field of View	H : 119.5°(Wide) ~ 27.9°(Tele)	H : 54.58°(Wide) ~ 5.30°(Tele) / V : 32.19°(Wide) ~ 3.00°(Tele)	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 : 61.8°(Wide) ~ 2.19°(Tele) / V : 36.2°(Wide) ~ 1.24°(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)
Focus Control	Auto / Manual / One shot AF	Auto / Manual / One shot AF	AF / One-shot AF / Manual	Auto / Manual / One shot AF	Auto / Manual / One shot AF	Auto / Manual / One shot AF	Simple Focus (motorized V/F) / Manual	Simple Focus (motorized V/F) / Manual
OPERATIONAL								
IR Viewable Length	-	-	350m (1,148.29ft)	-	-	-	40m (131.23ft)	30m (98.43ft)
Pan / Tilt / Rotate	0° ~ 355° / 0° ~ 90°	360° Endless / 190° (-5° ~ 185°)	360° Endless / 190° (-5° ~ 185°) / -	360° Endless / 210° (-15° ~ 195°)	360° Endless / 210° (-15° ~ 195°)	360° Endless / 210° (-15° ~ 195°)	-	0° ~ 354° / 0° ~ 67° / 0° ~ 355°
Day & Night	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)
Backlight Compensation	WDR (150dB)	WDR (150dB)	WDR (120dB)	WDR (150dB)	WDR (150dB)	WDR (150dB)	WDR (120dB)	WDR (120dB)
Digital Noise Reduction	SSNRV (2D+3D Noise Filter)	SSNRV (2D+3D Noise Filter)	SSNR (2D+3D Noise Filter)	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise filter)	SSNR	SSNR
Digital Image Stabilization	Support (Built in Gyro sensor)	Support (Built in Gyro sensor)	Support (Built in Gyro sensor)	Support (Built in Gyro sensor)	Support (Built in Gyro sensor)	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, Sound Classification	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, Face 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 (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
FEATURES								
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	ONVIF Profile S & G, SUNAPI	ONVIF Profile S & G, SUNAPI
Alarm I/O	1 / 1	1 / 1	4 / 2 (Relay)	4 / 2 (Relay)	4 / 2 (Relay)	4 / 2 (Relay)	1 / 1	1 / 1
Audio	Bi-Directional	Bi-Directional	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	SD/SDHC/SDXC, NAS, Local PC	SD/SDHC/SDXC, NAS, Local PC
Environment Protection	IP66, IK10	IP66, IK10	IP66, IK10	IP66, IK10	IK10 (with SHP-3701H)	IP67, IP66, NEMA4X, IK10	IP66, IK10	IK08
Operating Temperature	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -10°C (+14°F)	-30°C ~ +55°C (-22°F ~ +131°F)	-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)	-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)	-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)
Power	Max. 10W (12V DC) Max. 12.9W (PoE)	Max. 12W (12V DC) Max. 12W (PoE)	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)	Max. 20.0W (24V AC, PoE+)	Max. 24.0W - Heater off (24V AC, PoE+) Max. 65.0W - Heater on (24V AC)	Max. 12.43W / 14.08W - Heater on (24V AC) Max. 11.77W / 12.95W - Heater on (12V DC) Max. 10.43W / 11.55W - Heater on (PoE)	Max. 9.5W (12V DC) Max. 10.5W (PoE)
Dimensions (WxHxD) / Weight	Ø136 x 106mm (Ø5.35" x 4.17") 760g (1.68 lb)	Ø168.0 x 161.5mm (Ø6.61" x 6.36") 1.9kg (4.19 lb)	Ø236.9 x 407.7mm (Ø9.33" x 16.05") 7.1Kg (15.65 lb)	Ø220.0 x 293.6mm (Ø8.66" x 11.56") 3.3Kg (7.28 lb)	Ø152.0 x 218.0mm (Ø5.98" x 8.58") 2.2Kg (4.85 lb)	Ø227 x 296mm (Ø8.94" x 11.65") TBD	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)
Additional Features	WiseStream II, Advanced analytics, Auto Tracking Sound classification (Explosion, Gunshot, Glass Breakage, Scream etc)	WiseStream II, Advanced analytics, Auto Tracking Sound classification (Explosion, Gunshot, Glass Breakage, Scream etc)	Handover, Defog, WiseStream, Auto tracking	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)	WiseStream II, Advanced video analytics, Auto Tracking, Sound classification (Explosion, Gunshot, Glass breakage, Scream etc), SUS316L	Handover, Hallway View, P-Iris, Defog, WiseStream II	Handover, Hallway View, P-Iris, Defog, WiseStream II

NETWORK Wisenet P series



WISENET P
PNV-9080R



WISENET P
PNM-7000VD

New



WISENET P
PNM-9081VQ



WISENET P
PNM-9080VQ



WISENET P
PNM-9020V



WISENET P
**PNF-9010R/9010RV/
9010RVM**



WISENET P
PNP-9200RH

	12MP	4MP	20MP	8MP	7.3MP	12MP	8MP
VIDEO							
Imaging Device	1/1.7" 12.4M CMOS	-	1/1.8" 6M CMOS x 4	1/2.8" 2.38M CMOS x 4	7.3M (2M x 4)	1/1.7" 12.4M CMOS	1/2.5" 8M CMOS
Video Compression Format	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG
Resolution / Max. Frame Rate	12M / 20fps, 8M / 30fps	2ea x 2M / 60fps	4ea x 5M / 30fps	4ea x 2M / 60fps	7.3M / 30fps (H.265, H.264)	12M / 20fps, 9M / 25fps	8M / 30fps (H.265, H.264)
Streaming Capacity	Multiple (Up to 3 Profiles)	Multiple (Up to 10 Profiles)	Multiple (Up to 40 Profiles)	Multiple (Up to 40 Profiles)	Multiple (Up to 3 Profiles)	Multiple (Up to 3 Profiles)	Multiple (Up to 3 Profiles)
Max. User Access	15 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)	15 (Unicast)	15 (Unicast)	15 (Unicast)
Min. Illumination	Color: 0.3 Lux, B/W: 0 Lux (IR LED on)	-	Color: 0.07 Lux, B/W: 0.007 Lux	Color: 0.015 Lux, B/W: 0.0015 Lux	Color: 0.3 Lux, B/W: 0.03 Lux	Color: 0.3 Lux, B/W: 0 Lux (IR LED on)	Color: 0.1 Lux, B/W: 0 Lux (IR LED on)
Video Output	CVBS 1.0Vpp, DIP Connector Type	CVBS 1.0Vpp	CVBS 1.0Vpp (selectable CVBS per channel)	CVBS 1.0Vpp (selectable CVBS per channel)	-	CVBS 1.0Vpp, DIP Connector Type	CVBS 1.0Vpp
Lens	4.5 ~ 10mm (2.2x) motorized V/F (F1.6)	-	3.6 ~ 9.4mm (2.6x) motorized V/F	2.8 ~ 12mm (4.3x) motorized V/F	3.6mm fixed	2.1mm fixed (F2.2)	4.8 ~ 96mm (IR Corrected Optical 20x) F1.8(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)	-	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)	[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	Simple Focus (motorized V/F) / Manual	-	Simple focus (motorized V/F) / Manual	Simple focus (motorized V/F) / Manual	-	Simple Focus	AF / One-shot AF
OPERATIONAL							
IR Viewable Length	40m (131.23ft)	-	-	-	-	15m (49.21ft)	200m (656.17ft)
Pan / Tilt / Rotate	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°	0° ~ 355° / 0° ~ 73° / -	-	360° Endless / 190° (-5° ~ 185°) / -
Day & Night	True (ICR)	Electrical	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)
Backlight Compensation	WDR (120dB)	WDR (150dB)	WDR (120dB)	WDR (150dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)
Digital Noise Reduction	SSNR	SSNRV (2D+3D Noise filter)	SSNRV (2D+3D Noise Filter)	SSNRV (2D+3D Noise Filter)	SSNRV (2D+3D Noise Filter)	SSNR	SSNR
Digital Image Stabilization	-	Support	Support (Built in Gyro sensor)	Support (Built in Gyro sensor)	-	-	Support
Intelligent Video Analytics	Tampering (Scene change), Virtual Line, Enter / Exit, (Dis)Appear, Audio Detection, Defocus Detection, Digital Auto Tracking - with Metadata	Tampering, Loitering, Directional Detection, Fog Detection, Virtual Line, Enter/Exit, (Dis)Appear, Motion Detection, Face detection	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	Tampering (Scene change), Virtual Line, Enter / Exit, (Dis)Appear, Audio Detection, Defocus Detection, Digital Auto Tracking - with Metadata	Tampering, Virtual Line, Enter / Exit, (Dis) Appear, Audio Detection, Defocus Detection	Tampering, Virtual Line, Enter / Exit, (Dis)Appear, Audio Detection - with Metadata
FEATURES							
Protocol	ONVIF Profile S & G, SUNAPI	ONVIF profile S/G, SUNAPI	ONVIF profile S, SUNAPI	ONVIF profile S, 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	4 / 2 (Relay)
Audio	Bi-Directional	-	-	-	Bi-Directional	Bi-Directional	Bi-Directional
Edge Storage	SD/SDHC/SDXC, NAS, Local PC	SD/SDHC/SDXC, Local PC	SD/SDHC/SDXC, Local PC	SD/SDHC/SDXC, Local PC	SD/SDHC/SDXC, NAS, Local PC	Micro SD/SDHC/SDXC, NAS, Local PC	SD/SDHC/SDXC, NAS, Local PC
Environment Protection	IP66, IP67, IK10	IP66, IK10	IP66, IK10	IP66, IK10	IP66, IK10	IK10 (PNF-9010R), IP66, IK10 (PNF-9010RV/9010RVM)	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)	-40°C ~ +55°C (-40°F ~ +131°F)	-40°C ~ +55°C (-40°F ~ +131°F)	-40°C ~ +55°C (-40°F ~ +131°F) * Start up above -35°C (-31°F)	-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. 12.43W / 14.08W - Heater on (24V AC) Max. 11.77W / 12.95W - Heater on (12V DC) Max. 10.43W / 11.55W - Heater on (PoE)	TBD (PoE)	Max. 28.8W (12V DC) Max. 33.6W (HPoE)	Max. 21.6W (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	Ø160.0 x 118.5mm (Ø6.3" x 4.67") 990g (2.18 lb)	TBD	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)	Ø199.0 x 143.5mm (Ø7.83" x 5.65") 2.03kg (4.48 lb)	Ø146.0 x 63.4mm (Ø5.75" x 2.5") 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, Hallway View, P-Iris, Defog, WiseStream II	Defog, WiseStream II Hallway View	Multidirectional camera, WiseStream II	Multidirectional camera, WiseStream II	Handover, Lens Distortion Correction, Multi Sensor, WiseStream II	M12 Connector (PNF-9010RVM), Built-in mic, On Board Dewatering, Handover, WiseStream II, Heatmap, People Counting	Handover, Defog, Auto tracking, WiseStream II

NETWORK Wisenet Q series



Wisenet Q
QNO-7080R



Wisenet Q
QNO-7010R/7020R/7030R



Wisenet Q
QNO-6070R



Wisenet Q
QNO-6010R/6020R/6030R



Wisenet Q
QND-7080R



Wisenet Q
QND-7010R/7020R/7030R



Wisenet Q
QND-6070R

	4MP	4MP	2MP	2MP	4MP	4MP	2MP
VIDEO							
Imaging Device	1/3" 4M CMOS	1/3" 4M CMOS	1/2.9" 2.19M CMOS	1/2.9" 2.19M CMOS	1/3" 4M CMOS	1/3" 4M CMOS	1/2.9" 2.19M CMOS
Video Compression Format	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG
Resolution / Max. Frame Rate	4M / 20fps, 2M / 30fps	4M / 20fps, 2M / 30fps	2M / 30fps	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)	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)	6 (Unicast)
Min. Illumination	Color 0.15 Lux B/W : 0 Lux (IR LED on)	Color: 0.5 Lux (QNO-7010R), 0.4 Lux (QNO-7020R), 0.3 Lux (QNO-7030R) B/W : 0 Lux (IR LED on)	Color 0.095 Lux B/W : 0 Lux (IR LED on)	Color: 0.15 Lux B/W : 0 Lux (IR LED on)	Color 0.15 Lux B/W : 0 Lux (IR LED on)	Color: 0.5 Lux (QND-7010R), 0.4 Lux (QND-7020R), 0.3 Lux (QND-7030R) B/W : 0 Lux (IR LED on)	Color 0.095 Lux B/W : 0 Lux (IR LED on)
Video Output	-	-	-	-	-	-	-
Lens	2.8 ~ 12mm (4.3x) motorized V/F (F1.4)	2.8mm fixed (F2.0) (QNO-7010R) 3.6mm fixed (F2.2) (QNO-7020R) 6mm fixed (F2.2) (QNO-7030R)	2.8 ~ 12mm (4.3x) Manual V/F (F1.4)	2.8mm fixed (F2.0) (QNO-6010R) 3.6mm fixed (F1.8) (QNO-6020R) 6mm fixed (F1.8) (QNO-6030R)	2.8 ~ 12mm (4.3x) motorized V/F (F1.4)	2.8mm fixed (F2.2) (QND-7010R) 3.6mm fixed (F2.2) (QND-7020R) 6mm fixed (F2.2) (QND-7030R)	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 : 111.0° / V : 63.0° / D : 133.0° (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 : 103.8° (Wide) ~ 32.4° (Tele) / V : 53.7° (Wide) ~ 18.4° (Tele) / D : 121.9° (Wide) ~ 37.1° (Tele)	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 : 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)	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	-	Manual	-	Simple Focus (motorized V/F) / Manual	-	Manual
OPERATIONAL							
IR Viewable Length	30m (98.43ft)	20m (65.62ft) (QNO-7010R), 25m (82.02ft) (QNO-7020R), 30m (98.43ft) (QNO-7030R)	30m (98.43ft)	20m (65.62ft) : QNO-6010R, 25m (82.02ft) : QNO-6020R, 30m (98.43ft) : QNO-6030R	20m (65.62ft)	20m (65.62ft)	20m (65.62ft)
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)	True (ICR)	True (ICR)
Backlight Compensation	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)
Digital Noise Reduction	SSNR	SSNR	SSNR	SSNR	SSNR	SSNR	SSNR
Digital Image Stabilization	-	-	-	-	-	-	-
Intelligent Video 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	Motion Detection with Metadata, Tampering, Defocus Detection	Motion Detection with Metadata, Tampering, Defocus Detection	Motion Detection with Metadata, Tampering, Defocus Detection
FEATURES							
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	ONVIF Profile S & G, SUNAPI
Alarm I/O	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
Audio	Uni-Directional	Uni-Directional	Uni-Directional	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	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	-	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)	-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)	-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. 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)	Max. 5.5W (12V DC) Max. 6.7W (PoE)
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)	Ø70.0 x 246.0mm (Ø2.76" x 9.69") (Without Sunshield) 730g (1.61 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)	Ø119.8 x 98.8mm (Ø4.72" x 3.89") 325g (0.72 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	Lens Distortion Correction, Hallway View, WiseStream	Lens Distortion Correction, Hallway View, WiseStream	Lens Distortion Correction, Hallway View, WiseStream

NETWORK Wisenet Q series



Wisenet Q
QND-6010R/6020R/6030R



Wisenet Q
QNV-7080R



Wisenet Q
QNV-7010R/7020R/7030R



Wisenet Q
QNV-6070R



Wisenet Q
QNV-6010R/6020R/6030R



Wisenet Q
QNP-6230H



Wisenet Q
QNP-6230

	2MP	4MP	4MP	2MP	2MP	2MP	2MP
VIDEO							
Imaging Device	1/2.9" 2.19M CMOS	1/3" 4M CMOS	1/3" 4M CMOS	1/2.9" 2.19M CMOS	1/2.9" 2.19M CMOS	1/2.8" 2.4M CMOS	1/2.8" 2.4M CMOS
Video Compression Format	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG
Resolution / Max. Frame Rate	2M / 30fps	4M / 20fps, 2M / 30fps	4M / 20fps, 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 10 Profiles)	Multiple (Up to 10 Profiles)
Max. User Access	6 (Unicast)	6 (Unicast)	6 (Unicast)	6 (Unicast)	6 (Unicast)	10 (Unicast)	10 (Unicast)
Min. Illumination	Color: 0.15 Lux B/W: 0 Lux (IR LED on)	Color: 0.15 Lux B/W: 0 Lux (IR LED on)	Color: 0.5 Lux (QNV-7010R), 0.4 Lux (QNV-7020R), 0.3 Lux (QNV-7030R) B/W: 0 Lux (IR LED on)	Color: 0.095 Lux B/W: 0 Lux (IR LED on)	Color: 0.15 Lux B/W: 0 Lux (IR LED on)	Color: 0.2Lux B/W: 0.01Lux	Color: 0.2Lux B/W: 0.01Lux
Video Output	-	-	-	-	-	CVBS 1.0Vpp	CVBS 1.0Vpp
Lens	2.8mm fixed (F2.0) (QND-6010R) 3.6mm fixed (F1.8) (QND-6020R) 6mm fixed (F1.8) (QND-6030R)	2.8 ~ 12mm (4.3x) motorized V/F (F1.4)	2.8mm fixed (F2.0) (QNV-7010R) 3.6mm fixed (F2.2) (QNV-7020R) 6mm fixed (F2.2) (QNV-7030R)	2.8 ~ 12mm (4.3x) Manual V/F (F1.4)	2.8mm fixed (F1.8) (QNV-6010R) 3.6mm fixed (F1.8) (QNV-6020R) 6mm fixed (F1.8) (QNV-6030R)	4.44 ~ 102.2mm (Optical 23x) F1.6(Wide) / F3.6(Tele)	4.44 ~ 102.2mm (Optical 23x) F1.6(Wide) / F3.6(Tele)
Angular Field of View	H: 111.0° / V: 63.0° / D: 133.0° (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: 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: 103.8°(Wide) ~ 32.4°(Tele) / V: 53.7°(Wide) ~ 18.4°(Tele) / D: 121.9°(Wide) ~ 37.1°(Tele)	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: 61.8°(Wide) ~ 3.08°(Tele) / V: 36.2°(Wide) ~ 1.73°(Tele)	H: 61.8°(Wide) ~ 3.08°(Tele) / V: 36.2°(Wide) ~ 1.73°(Tele)
Focus Control	-	Simple Focus (motorized V/F) / Manual	-	Manual	-	Auto / Manual / One shot AF	Auto / Manual / One shot AF
OPERATIONAL							
IR Viewable Length	20m (65.62ft)	30m (98.43ft)	20m (65.62ft) (QNV-7010R), 25m (82.02ft) (QNV-7020R), 30m (98.43ft) (QNV-7030R)	30m (98.43ft)	20m (65.62ft) (QNV-6010R), 25m (82.02ft) (QNV-6020R), 30m (98.43ft) (QNV-6030R)	-	-
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°	360° Endless / 210° (-15° ~ 195°)	360° Endless / 210° (-15° ~ 195°)
Day & Night	True (ICR)	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)	WDR (120dB)
Digital Noise Reduction	SSNR	SSNR	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)
Intelligent Video 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	Motion Detection with Metadata, Tampering, Defocus Detection	Tampering, Motion detection	Tampering, Motion detection
FEATURES							
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	ONVIF profile S/G, SUNAPI
Alarm I/O	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	4 / 2 (Relay)	4 / 2 (Relay)
Audio	Uni-Directional	Uni-Directional	Uni-Directional	Uni-Directional	Uni-Directional	Bi-directional	Bi-directional
Edge Storage	Micro SD/SDHC/SDXC, NAS	Micro SD/SDHC/SDXC, NAS	Micro SD/SDHC/SDXC, NAS	Micro SD/SDHC/SDXC, NAS	Micro SD/SDHC/SDXC, NAS	SD/SDHC/SDXC, NAS, Local PC	SD/SDHC/SDXC, NAS, Local PC
Environment Protection	IK08	IP66, IK10	IP66, IK10	IP66, IK10	IP66, IK10	IP66, IK10	IK10 (with SHP-3701H)
Operating Temperature	-10°C ~ +55°C (+14°F ~ +131°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -20°C (-4°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -20°C (-4°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -20°C (-4°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -20°C (-4°F)	-50°C ~ +55°C (-58°F ~ +131°F) (24V AC) -30°C ~ +55°C (-22°F ~ +131°F) (PoE+)	-10°C ~ +55°C (+14°F ~ +131°F)
Power	Max. 5.8W (12V DC) Max. 7.0W (PoE) (QND-6010R) Max. 5.43W (12V DC) Max. 6.5W (PoE) (QND-6020R/6030R)	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. 5.5W (12V DC) Max. 6.7W (PoE)	Max. 5.8W (12V DC), Max. 7.0W (PoE) (QNV-6010R) Max. 5.7W (12V DC), Max. 6.8W (PoE) (QNV-6020R/6030R)	Max. 24.0W - Heater Off (24V AC, PoE+), Max. 65.0W - Heater On (24V AC)	Max. 20.0W (24V AC, PoE+)
Dimensions (WxHxD) / Weight	Ø110.0 x 86.0mm (Ø4.33" x 3.39") 290g (0.64lb)	Ø137.0 x 106.1mm (Ø5.39" x 4.18") 680g (1.5lb)	Ø120.3 x 91.7mm (Ø4.74" x 3.61") 490g (1.08lb)	Ø137.0 x 106.1mm (Ø5.39" x 4.18") 660g (1.46lb)	Ø120.3 x 91.7mm (Ø4.74" x 3.61") 490g (1.08lb)	Ø220.0 x 293.6mm (Ø8.66" x 11.56") 3.3Kg (7.28lb)	Ø152.0 x 218.0mm (Ø5.98" x 8.58") 2.2Kg (4.85lb)
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	Lens Distortion Correction, Hallway View, WiseStream	Defog, WiseStream II	Defog, WiseStream II

NETWORK Wisenet T series



WISENET T
TNO-6320E



WISENET T
TNU-6320E



WISENET T
TNU-6320



WISENET T
TNO-4051T



WISENET T
TNO-4050T



WISENET T
TNO-4041T



WISENET T
TNO-4040T



WISENET T
TNO-4030T

	2MP	2MP	2MP	VGA	VGA	VGA	VGA	VGA
VIDEO								
Imaging Device	1/2.8" 2.38M CMOS	1/2.8" 2.38M CMOS	1/2.8" 2.38M CMOS	Uncooled Microbolometer	Uncooled Microbolometer	Uncooled Microbolometer	Uncooled Microbolometer	Uncooled Microbolometer
Video Compression Format	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG
Resolution / Max. Frame Rate	2M / 60fps	2M / 60fps	2M / 60fps	640 x 480 / 30fps	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)	Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)
Max. User Access	10 (Unicast)	10 (Unicast)	10 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)
Min. Illumination	Color: 0.15 Lux B/W: 0.015 Lux	Color: 0.15 Lux B/W: 0.015 Lux	Color: 0.3 Lux B/W: 0.03 Lux	-	-	-	-	-
Video Output	-	-	CVBS 1.0Vpp	CVBS 1.0Vpp	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	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)	35mm fixed (F1.0)	19mm fixed (F1.0)	19mm fixed (F1.0)	13mm fixed (F1.0)
Angular Field of View	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°	H: 17.2° / V: 13° / D: 22°	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	Auto / Manual / One push	Auto / Manual / One push	Auto / Manual / One push	Fixed	Fixed	Fixed	Fixed	Fixed
OPERATIONAL								
IR Viewable Length	-	-	-	-	-	-	-	-
Pan / Tilt / Rotate	-	360° Endless / 180° (-90° ~ 90°) / -	360° Endless / -90° ~ 40° / -	-	-	-	-	-
Day & Night	Auto (ICR)	Auto (ICR)	Auto (ICR)	-	-	-	-	-
Backlight Compensation	WDR (120dB)	WDR (120dB)	WDR (120dB)	-	-	-	-	-
Digital Noise Reduction	SSNR III (2D+3D Noise Filter)	SSNR III (2D+3D Noise Filter)	SSNR III (2D+3D Noise Filter)	-	-	-	-	-
Digital Image Stabilization	Support	Support	Support	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)
Intelligent Video Analytics	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, Fence detection, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Sound classification, Shock detection, Temperature change detection	Tampering, Loitering, Directional detection, Virtual line, Fence detection, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Sound classification, Shock detection, Temperature change detection	Tampering, Loitering, Directional detection, Virtual line, Fence detection, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Sound classification, Shock detection, Temperature change detection	Tampering, Loitering, Directional detection, Virtual line, Fence detection, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Sound classification, Shock detection, Temperature change detection	Tampering, Loitering, Directional detection, Virtual line, Fence detection, Enter/Exit, (Dis)Appear, Audio detection, Motion detection, Sound classification, Shock detection, Temperature change detection
FEATURES								
Protocol	ONVIF Profile S, SUNAPI	ONVIF Profile S, SUNAPI	ONVIF Profile S, 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 (Relay)	1 / 1 (Relay)	1 / 1 (Relay)	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2
Audio	-	-	Bi-directional	Bi-directional	Bi-directional	Bi-directional	Bi-directional	Bi-directional
Edge Storage	NAS	NAS	SD/SDHC/SDXC, NAS	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	IP67, IK10	IP66	IP66, NEMA4X	IP66, NEMA4X	IP66, NEMA4X, IK10	IP66, NEMA4X, IK10	IP66, NEMA4X, IK10
Operating Temperature	-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 ~ +50°C (-40°F ~ +131°F)	-40°C ~ +60°C (-40°F ~ +140°F)	-40°C ~ +60°C (-40°F ~ +140°F)	-40°C ~ +60°C (-40°F ~ +140°F)	-40°C ~ +60°C (-40°F ~ +140°F)	-40°C ~ +60°C (-40°F ~ +140°F)
Power	Max. 28.0W - Heater on (24V AC)	Max. 49.0W - Heater on (24V AC)	100W - Heater on, 25W - Heater off (24V AC)	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)	Max. 10.5W (24V AC), Max. 9W (12V DC), Max. 10W (PoE)
Dimensions (WxHxD) / Weight	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") TBD	Ø101.97 x 309mm (Ø4.01" x 12.17") 2,501g (5.51 lb)	Ø147.51 x 401.8mm (Ø5.81" x 15.82") 3,175g (7.0 lb)	Ø101.97 x 309mm (Ø4.01" x 12.17") 2,501g (5.51 lb)	Ø147.51 x 401.8mm (Ø5.81" x 15.82") 3,175g (7.0 lb)	Ø147.51 x 401.8mm (Ø5.81" x 15.82") 3,173g (7.0 lb)
Additional Features	Explosion Certification : CE2460 EX II 2 Gd Ex d IIC T6 Gb IP67 Ex tb IIIC T85°C Db	Explosion Certification : CE2460 EX II 2 Gd Ex d IIC T6 Gb IP67 Ex tb IIIC T80°C Db	Defog, Built in wiper	Handover, WiseStream II, Advanced video analytics, Sound classification, 7 Color palettes	Handover, WiseStream II, Advanced video analytics, Sound classification, Hallway view, 7 Color palettes	Handover, WiseStream II, Advanced video analytics, Sound classification, 7 Color palettes	Handover, WiseStream II, Advanced video analytics, Sound classification, Hallway view, 7 Color palettes	Handover, WiseStream II, Advanced video analytics, Sound classification, Hallway view, 7 Color palettes

NETWORK



Preliminary

New



Preliminary

New



Preliminary

New



Preliminary

New



Preliminary

New



Preliminary

New

LNO-6070R

LNO-6010R/6020R/6030R

LND-6070R

LND-6010R/6020R/6030R

LNV-6070R

LNV-6010R/6020R/6030R

	2MP	2MP	2MP	2MP	2MP	2MP
VIDEO						
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 Format	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
Resolution / Max. 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 : 0.95Lux B/W : 0Lux (IR LED on)	Color : 0.15Lux B/W : 0Lux (IR LED on)	Color : 0.95Lux B/W : 0Lux (IR LED on)	Color : 0.15Lux B/W : 0Lux (IR LED on)	Color : 0.95Lux B/W : 0Lux (IR LED on)	Color : 0.15Lux B/W : 0Lux (IR LED on)
Lens	3.2 ~ 10mm (3.1x) V/F (F1.4)	3mm fixed (F1.8) (LNO-6010R) 4mm fixed (F1.8) (LNO-6020R) 6mm fixed (F1.8) (LNO-6030R)	3.2 ~ 10mm (3.1x) V/F (F1.4)	3mm fixed (F1.8) (LND-6010R) 4mm fixed (F1.8) (LND-6020R) 6mm fixed (F1.8) (LND-6030R)	3.2 ~ 10mm (3.1x) V/F (F1.4)	3mm fixed (F1.8) (LNV-6010R) 4mm fixed (F1.8) (LNV-6020R) 6mm fixed (F1.8) (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 : 105° / V : 58° / D : 123° (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 : 105° / V : 58° / D : 123° (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 : 105° / V : 58° / D : 123° (LNV-6010R) H : 80° / V : 43° / D : 94° (LNV-6020R) H : 51° / V : 29° / D : 58° (LNV-6030R)
Focus Control	Manual	-	Manual	-	Manual	-
OPERATIONAL						
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	-	-	-	-	-	-
Intelligent Video Analytics	Motion detection, Tampering	Motion detection, Tampering	Motion detection, Tampering	Motion detection, Tampering	Motion detection, Tampering	Motion detection, Tampering
FEATURES						
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/SDXC, Local PC	SD/SDHC/SDXC, Local PC	SD/SDHC/SDXC, Local PC	SD/SDHC/SDXC, Local PC	SD/SDHC/SDXC, Local PC	SD/SDHC/SDXC, 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	TBD (PoE)	TBD (PoE)	TBD (PoE)	TBD (PoE)	TBD (PoE)	TBD (PoE)
Dimensions (WxHxD) / Weight	Ø78.0 x 262.0mm (Ø3.07" x 10.32") TBD	Ø58.6 x 182.0mm (Ø2.31" x 7.17") TBD	Ø119.8 x 98.8mm (Ø4.72" x 3.89") TBD	Ø110.0 x 86.0mm (Ø4.33" x 3.39") TBD	Ø137.8 x 106.1mm (Ø5.43" x 4.18") TBD	Ø120.3 x 91.7mm (Ø4.74" x 3.61") TBD
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

NETWORK

Wisenet P/X/Q series



WISENET P
PRN-4011



WISENET X
XRN-3010



WISENET X
XRN-2011



WISENET X
XRN-2010



WISENET X
XRN-1610S

OS	Linux	Linux	Linux	Linux	Linux
Supported Compression	H.265, H.264, MJPEG, WiseStream	H.265, H.264, MJPEG, WiseStream	H.265, H.264, MJPEG, WiseStream	H.265, H.264, MJPEG, WiseStream	H.265, H.264, MJPEG, WiseStream
Max. Recording Bit Rate	400Mbps	300Mbps	256Mbps (H.265 4MP 32Cameras Real-Time Recording) 100Mbps (RAID 5 mode)	256Mbps (H.265 4MP 32Cameras Real-Time Recording)	180Mbps
Max # of Cameras	64	64	32	32	16
Internal Storage	Up to 12 SATA (Max. 96TB)	Up to 8 SATA (Max. 48TB)	Up to 8 SATA (Hot swap) Max. 48TB (Non RAID), Max. 36TB (RAID 5)	Up to 8 SATA (Max. 48TB)	Up to 4 SATA (Max. 24TB)
External Storage	iSCSI	1 e-SATA	iSCSI	iSCSI, 1 e-SATA	iSCSI, 1 e-SATA
RAID	RAID 5/6	-	RAID 5	-	-
Hot Swap	Yes	-	Yes	-	-
Isolated Networks for Cameras / Source	Yes	Yes	Yes	Yes	Yes
Network Viewer Software	SSM, WebViewer, SmartViewer, iPOLIS Mobile	SSM, WebViewer, SmartViewer, iPOLIS Mobile	SSM, WebViewer, SmartViewer, iPOLIS Mobile	SSM, WebViewer, SmartViewer, iPOLIS Mobile	SSM, WebViewer, SmartViewer, iPOLIS 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, 32CH Monitoring) Support Dual Monitor: HDMI / VGA	HDMI (Up to 4K, 32CH Monitoring) Support Dual Monitor: HDMI / VGA	HDMI (Up to 4K), VGA Support Dual Monitor: HDMI / VGA
Camera Support	Samsung, ONVIF	Samsung, ONVIF	Samsung, ONVIF	Samsung, ONVIF	Samsung, ONVIF
Features	<ul style="list-style-type: none"> N+1 Failover Supported ARB Redundancy Supported WiseStream Support Defocus Event Trigger 	<ul style="list-style-type: none"> N+1 Failover Supported ARB Redundancy Supported WiseStream Support Defocus Event Trigger 	<ul style="list-style-type: none"> N+1 Failover Supported ARB Redundancy Supported WiseStream Support 	<ul style="list-style-type: none"> N+1 Failover Supported ARB Redundancy Supported WiseStream Support 	<ul style="list-style-type: none"> Plug & Play by 16 PoE / PoE+ Ports WebViewer Supported WiseStream Support Defocus Event Trigger



WISENET X
XRN-1610



WISENET X
XRN-810S



WISENET X
XRN-410S



WISENET Q
QRN-810



WISENET Q
QRN-410

OS	Linux	Linux	Linux	Linux	Linux
Supported Compression	H.265, H.264, MJPEG, WiseStream	H.265, H.264, MJPEG, WiseStream	H.265, H.264, MJPEG, WiseStream	H.265, H.264, MJPEG, WiseStream	H.265, H.264, MJPEG, WiseStream
Max. Recording Bit Rate	180Mbps	100Mbps	50Mbps	100Mbps	50Mbps
Max # of Cameras	16	8	4	8	4
Internal Storage	Up to 4 SATA (Max. 24TB)	Up to 2 SATA (Max. 12TB)	Up to 1 SATA (Max. 6TB)	Up to 1 SATA (Max. 6TB)	Up to 1 SATA (Max. 6TB)
External Storage	iSCSI, 1 e-SATA	-	-	-	-
RAID	-	-	-	-	-
Hot Swap	-	-	-	-	-
Isolated Networks for Cameras / Source	Yes	Yes	Yes	Yes	Yes
Network Viewer Software	SSM, WebViewer, SmartViewer, iPOLIS Mobile	SSM, WebViewer, SmartViewer, iPOLIS Mobile	SSM, WebViewer, SmartViewer, iPOLIS Mobile	SSM, WebViewer, SmartViewer, iPOLIS Mobile	SSM, WebViewer, SmartViewer, iPOLIS Mobile
Local Monitor	HDMI (Up to 4K), VGA Support Dual Monitor: HDMI / VGA	HDMI (Up to 4K), VGA	HDMI (Up to 4K), VGA	HDMI (Up to 4K), VGA	HDMI (Up to 4K), VGA
Camera Support	Samsung, ONVIF	Samsung, ONVIF	Samsung, ONVIF	Samsung, ONVIF	Samsung, ONVIF
Features	<ul style="list-style-type: none"> WebViewer Supported WiseStream Support Defocus Event Trigger 	<ul style="list-style-type: none"> Plug & Play by 8 PoE / PoE+ Ports Defocus Event Trigger 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 Defocus Event Trigger ARB Supported Easy Configuration (Setup Wizard, P2P (QR Code)) Event Push to Smart Phone Transmission Bandwidth 64Mbps Defocus Event Trigger 	<ul style="list-style-type: none"> Defocus Event Trigger 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"> Defocus Event Trigger ARB Supported Easy Configuration (Setup Wizard, P2P (QR Code)) Event Push to Smart Phone Transmission Bandwidth 64Mbps Defocus Event Trigger

NETWORK



WISeNET III
SNB-7004



WISeNET III
SNB-6011B



WISeNET III
SNB-6010B



WISeNET III
SNB-6005



WISeNET III
SNB-6004



WISeNET III
SNZ-6320

	3MP	2MP	2MP	2MP	2MP	2MP
VIDEO						
Imaging Device	1/2.8" 3.2M CMOS	1/2.8" 2.38M CMOS	1/2.8" 2.38M CMOS	1/1.9" 2.4M CMOS	1/2.8" 2.38M CMOS	1/2.8" 2.38M CMOS
Video Compression Format	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
Resolution / Max. Frame Rate	3M / 30fps	2M / 30fps	2M / 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)	Multiple (Up to 10 Profiles)
Max. User Access	15 (Unicast)	15 (Unicast)	15 (Unicast)	15 (Unicast)	15 (Unicast)	10 (Unicast)
Min. Illumination	Color: 0.06 Lux B/W: 0.006 Lux	* Color: 0.3 Lux	* Color: 0.3 Lux	Color: 0.015 Lux B/W: 0.0015 Lux	Color: 0.03 Lux B/W: 0.002 Lux	Color: 0.15 Lux B/W: 0.015 Lux
Video Output	CVBS 1.0Vpp DIP Connector Type	CVBS 1.0Vpp DIP Connector Type	CVBS 1.0Vpp DIP Connector Type	CVBS 1.0Vpp DIP Connector Type	CVBS 1.0Vpp DIP Connector Type	CVBS 1.0Vpp DIP Connector Type
Lens	-	2.4mm Pinhole (F 2.0)	4.6mm Pinhole (F 2.5)	-	-	4.44 ~ 142.6mm (Optical 32x) F1.6(Wide) / F4.4(Tele)
Angular Field of View	-	H: 134.3° / V: 70.9°	H: 71° / V: 38°	-	-	H: 62.8°(Wide) ~ 2.23°(Tele) / V: 36.8°(Wide) ~ 1.26°(Tele)
Focus Control	Simple Focus / Manual	-	-	Simple Focus / Manual	Simple Focus / Manual	Auto / Manual / One push
OPERATIONAL						
IR Viewable Length	-	-	-	-	-	-
Pan / Tilt / Rotate	-	-	-	-	-	-
Day & Night	True (ICR)	Electrical	Electrical	True (ICR)	True (ICR)	True (ICR)
Backlight Compensation	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)
Digital Noise Reduction	SSNR III (2D+3D Noise Filter)	SSNR III (2D+3D Noise Filter)	SSNR III (2D+3D Noise Filter)	SSNR III (2D+3D Noise Filter)	SSNR III (2D+3D Noise Filter)	SSNR III (2D+3D Noise Filter)
Digital Image Stabilization	Support	Support	Support	Support	Support	Support
Intelligent Video Analytics	Tampering, Virtual Line, Enter / Exit, (Dis) Appear, Audio Detection, Face Detection	Tampering, Virtual Line, Enter / Exit, (Dis) Appear, Audio Detection, Face Detection with Metadata	Tampering, Virtual Line, Enter / Exit, (Dis) Appear, Audio Detection, Face Detection with Metadata	Tampering, Virtual Line, Enter / Exit, (Dis) Appear, Audio Detection, Face Detection with Metadata	Tampering, Virtual Line, Enter / Exit, (Dis) Appear, Audio Detection, Face Detection	Tampering, Virtual Line, Enter / Exit, (Dis) Appear, Audio Detection, Face Detection
FEATURES						
Protocol	ONVIF Profile S, SUNAPI, Open Platform	ONVIF Profile S, SUNAPI, Open Platform	ONVIF Profile S, SUNAPI, Open Platform	ONVIF Profile S, SUNAPI, Open Platform	ONVIF Profile S, SUNAPI, Open Platform	ONVIF Profile S, SUNAPI, Open Platform
Alarm I/O	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1 (Relay)
Audio	Bi-Directional	Bi-Directional	Bi-Directional	Bi-Directional	Bi-Directional	Bi-Directional
Edge Storage	Micro SD/SDHC/SDXC, NAS	Micro SD/SDHC/SDXC, NAS	Micro SD/SDHC/SDXC, NAS	SD/SDHC/SDXC, NAS	SD/SDHC/SDXC, NAS	SD/SDHC/SDXC, NAS
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)	-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. 13.1W (24V AC) Max. 11.1W (12V DC) Max. 12.6W (PoE)	Max. 6.5W (12V DC) Max. 7.5W (PoE)	Max. 6.5W (12V DC) Max. 7.5W (PoE)	Max. 11.44W (24V AC) Max. 10.1W (12V DC) Max. 11.1W (PoE)	Max. 11.44W (24V AC) Max. 10.1W (12V DC) Max. 11.1W (PoE)	Max. 9.0W (12V DC) Max. 10.0W (PoE)
Dimensions (WxHxD) / Weight	73.1 x 66.6 x 147.8mm (2.88" x 2.62" x 5.82") 430g (0.95 lb)	Header: Ø24.0 x 50.0mm (Ø0.94" x 1.97"), 80g (0.18 lb) (Include 1.5m cable) Main unit: 131.1 x 28.0 x 86.0mm (5.16" x 1.1" x 3.39") 255g (0.56 lb)	Header: Ø24.0 x 42.4mm (Ø0.94" x 1.67"), 80g (0.18 lb) (Include 1.5m cable) Main unit: 131.1 x 28.0 x 86.0mm (5.16" x 1.1" x 3.39") 255g (0.56 lb)	73.1 x 66.6 x 147.8mm (2.88" x 2.62" x 5.82") 430g (0.95 lb)	73.1 x 66.6 x 147.8mm (2.88" x 2.62" x 5.82") 395g (0.87 lb)	72.0 x 59.9 x 135.4mm (2.83" x 2.36" x 5.33") 540g (1.19 lb)
Additional Features	P-Iris, RS-485, Defog	Separated head and body, Defog	Separated head and body, Defog	P-Iris, RS-485, Defog	P-Iris, RS-485, Defog	RS-485, Defog

NETWORK



Wisenet III
SNO-7084R



Wisenet III
SNO-6084R



Wisenet III
SNO-6011R



Wisenet Lite
SNO-L6083R



Wisenet Lite
SNO-L6013R



SNF-8010/8010VM

	3MP	2MP	2MP	2MP	2MP	5MP
VIDEO						
Imaging Device	1/2.8" 3.2M CMOS	1/2.8" 2.38M CMOS	1/2.8" 2.38M CMOS	1/2.9" 2.19M CMOS	1/2.9" 2.19M CMOS	1/1.8" 6M CMOS
Video Compression Format	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
Resolution / Max. Frame Rate	3M / 30fps	2M / 60fps	2M / 30fps	2M / 30fps	2M / 30fps	5M / 20fps
Streaming Capacity	Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)	Multiple (Up to 3 Profiles)	Multiple (Up to 3 Profiles)	Multiple (Up to 5 Profiles)
Max. User Access	15 (Unicast)	15 (Unicast)	15 (Unicast)	6 (Unicast)	6 (Unicast)	10 (Unicast)
Min. Illumination	Color: 0.06 Lux B/W: 0 Lux (IR LED on)	Color: 0.03 Lux B/W: 0 Lux (IR LED on)	Color: 0.08 Lux B/W: 0 Lux (IR LED on)	Color: 0.095 Lux B/W: 0 Lux (IR LED on)	Color: 0.15 Lux B/W: 0 Lux (IR LED on)	Color: 0.2 Lux B/W: 0.02 Lux
Video Output	CVBS 1.0Vpp DIP Connector Type	CVBS 1.0Vpp DIP Connector Type	CVBS 1.0Vpp	-	-	CVBS 1.0Vpp
Lens	3 ~ 8.5mm (2.8x) motorized V/F (F1.2)	3 ~ 8.5mm (2.8x) motorized V/F (F1.2)	3.8mm fixed (F2.0)	2.8 ~ 12mm (4.3x) V/F (F1.4)	3.6mm fixed (F1.8)	1.14mm fixed (F2.5)
Angular Field of View	H: 100.12°(Wide) ~ 35.38°(Tele) / V: 73.76°(Wide) ~ 26.58°(Tele)	H: 105.5°(Wide) ~ 37.1°(Tele) / V: 57.5°(Wide) ~ 21.0°(Tele)	H: 84.5° / V: 45.8° / D: 98.8°	H: 103.8°(Wide) ~ 32.4°(Tele) / V: 53.7°(Wide) ~ 18.4°(Tele) / D: 121.9°(Wide) ~ 37.1°(Tele)	H: 86.5° / V: 47.8° / D: 101.2°	H: 187.0° / V: 187.0° / D: 187.0°
Focus Control	Simple Focus (motorized V/F) / Manual	Simple Focus (motorized V/F) / Manual	Manual	Manual	-	Manual
OPERATIONAL						
IR Viewable Length	30m (98.43ft)	30m (98.43ft)	15m (49.21ft)	20m (65.62ft)	20m (65.62ft)	-
Pan / Tilt / Rotate	-	-	-	-	-	-
Day & Night	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)
Backlight Compensation	WDR (120dB)	WDR (120dB)	WDR (120dB, 15fps)	BLC, DWDR	BLC, DWDR	WDR (60dB)
Digital Noise Reduction	SSNRIII (2D+3D Noise Filter)	SSNRIII (2D+3D Noise Filter)	SSNRIII (2D+3D Noise Filter)	SSNR	SSNR	SSNRIII (2D+3D Noise Filter)
Digital Image Stabilization	Support	Support	Support	-	-	-
Intelligent Video Analytics	Tampering, Virtual Line, Enter / Exit, (Dis) Appear, Audio Detection, Face Detection	Tampering, Virtual Line, Enter / Exit, (Dis) Appear, Audio Detection, Face Detection	Tampering, Virtual Line, Enter / Exit, (Dis) Appear, Face Detection with Metadata	Motion Detection with Metadata, Tampering	Motion Detection with Metadata, Tampering	Motion Detection, Audio Detection, Tampering
FEATURES						
Protocol	ONVIF Profile S, SUNAPI, Open Platform	ONVIF Profile S, SUNAPI, Open Platform	ONVIF Profile S, SUNAPI, Open Platform	ONVIF Profile S & G, SUNAPI	ONVIF Profile S & G, SUNAPI	ONVIF Profile S, SUNAPI
Alarm I/O	1 / 1	1 / 1	1 / 0	-	-	1 / 1
Audio	Bi-Directional	Bi-Directional	-	Uni-Directional	Uni-Directional	Bi-Directional
Edge Storage	Micro SD/SDHC/SDXC, NAS	Micro SD/SDHC/SDXC, NAS	Micro SD/SDHC/SDXC	Micro SD/SDHC, NAS	Micro SD/SDHC, NAS	Micro SD/SDHC/SDXC, NAS
Environment Protection	IP66, IK10	IP66, IK10	IP66	IP66, IK10	IP66	IP66, IK10 / EN-61373/50155 (SNF-8010VM)
Operating Temperature	-50°C ~ +55°C (-58°F ~ +131°F) (24V AC) -20°C ~ +55°C (-4°F ~ +131°F) (12V DC, PoE) * Start up above -10°C (+14°F)	-50°C ~ +55°C (-58°F ~ +131°F) (24V AC) -20°C ~ +55°C (-4°F ~ +131°F) (12V DC, PoE) * 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 -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) (SNF-8010) -30°C ~ +55°C (-22°F ~ +131°F) * Start up above -25°C (-13°F) (SNF-8010VM)
Power	Max. 13.0W / 19.0W - Heater on (24V AC) Max. 11.5W (12V DC) Max. 12.5W (PoE)	Max. 11.0W - Heater off Max. 17.0W - Heater on (24V AC)	Max. 8.5W (PoE)	Max. 5.9W (PoE)	Max. 5.7W (PoE)	Max. 8.7W (12V DC) Max. 10.3W (PoE) mode A only (SNF-8010VM)
Dimensions (WxHxD) / Weight	82.4 x 82.4 x 312.6mm (3.24" x 3.24" x 12.31") (Without Sunshield) 1.19Kg (2.62 lb)	82.4 x 82.4 x 312.6mm (3.24" x 3.24" x 12.31") (Without Sunshield) 1.19Kg (2.62 lb)	77.1 x 83.0 x 302.4mm (3.04" x 3.27" x 11.91") 560g (1.23 lb)	Ø70.0 x 246.0mm (Ø2.76" x 9.69") (Without Sunshield) 700g (1.54 lb)	Ø58.6 x 165.2mm (Ø2.31" x 6.5") (Without Sunshield) 250g (0.55 lb)	Ø145.9 x 49.6mm (Ø5.74" x 1.95") 780g (1.72 lb) (SNF-8010) Ø145.9 x 62.4mm (Ø5.74" x 2.46") 800g (1.76 lb) (SNF-8010VM)
Additional Features	P-Iris, Defog	P-Iris, Defog	Defog	Lens Distortion Correction, Hallway View	Lens Distortion Correction, Hallway View	Various Viewing Compositions, M12 Connector (SNF-8010VM)

NETWORK



WISeNET III
SND-7084



WISeNET III
SND-6084



WISeNET Lite
SND-L6013



WISeNET Lite
SND-L6012



WISeNET III
SND-7084R



WISeNET III
SND-6084R

	3MP	2MP	2MP	2MP	3MP	2MP
VIDEO						
Imaging Device	1/2.8" 3.2M CMOS	1/2.8" 2.38M CMOS	1/2.9" 2.19M CMOS	1/2.9" 2.19M CMOS	1/2.8" 3.2M CMOS	1/2.8" 2.38M CMOS
Video Compression Format	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
Resolution / Max. Frame Rate	3M / 30fps	2M / 60fps	2M / 30fps	2M / 30fps	3M / 30fps	2M / 60fps
Streaming Capacity	Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)	Multiple (Up to 3 Profiles)	Multiple (Up to 3 Profiles)	Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)
Max. User Access	15 (Unicast)	15 (Unicast)	6 (Unicast)	6 (Unicast)	15 (Unicast)	15 (Unicast)
Min. Illumination	Color: 0.06 Lux B/W: 0.006 Lux	Color: 0.03 Lux B/W: 0.002 Lux	Color: 0.15 Lux B/W: 0.15 Lux	Color: 0.15 Lux B/W: 0.15 Lux	Color: 0.06 Lux B/W: 0 Lux (IR LED on)	Color: 0.03 Lux B/W: 0 Lux (IR LED on)
Video Output	CVBS 1.0Vpp DIP Connector Type	CVBS 1.0Vpp DIP Connector Type	-	-	CVBS 1.0Vpp DIP Connector Type	CVBS 1.0Vpp DIP Connector Type
Lens	3 ~ 8.5mm (2.8x) motorized V/F (F1.2)	3 ~ 8.5mm (2.8x) motorized V/F (F1.2)	3.6mm fixed (F1.8)	2.8mm fixed (F1.8)	3 ~ 8.5mm (2.8x) motorized V/F (F1.2)	3 ~ 8.5mm (2.8x) motorized V/F (F1.2)
Angular Field of View	H: 100.12°(Wide) ~ 35.38°(Tele) / V: 73.76°(Wide) ~ 26.58°(Tele)	H: 105.5°(Wide) ~ 37.1°(Tele) / V: 57.5°(Wide) ~ 21.0°(Tele)	H: 86.5° / V: 47.8° / D: 101.2°	H: 110.0° / V: 61.0° / D: 125.0°	H: 100.12°(Wide) ~ 35.38°(Tele) / V: 73.76°(Wide) ~ 26.58°(Tele)	H: 105.5°(Wide) ~ 37.1°(Tele) / V: 57.5°(Wide) ~ 21.0°(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	-	-	-	-	25m (82.02ft)	15m (49.21ft)
Pan / Tilt / Rotate	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 350° / 0° ~ 67° / 0° ~ 355°	0° ~ 350° / 0° ~ 67° / 0° ~ 355°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°
Day & Night	True (ICR)	True (ICR)	Electrical	Electrical	True (ICR)	True (ICR)
Backlight Compensation	WDR (120dB)	WDR (120dB)	BLC, DWDR	BLC, DWDR	WDR (120dB)	WDR (120dB)
Digital Noise Reduction	SSNRIII (2D+3D Noise Filter)	SSNRIII (2D+3D Noise Filter)	SSNR	SSNR	SSNRIII (2D+3D Noise Filter)	SSNRIII (2D+3D Noise Filter)
Digital Image Stabilization	Support	Support	-	-	Support	Support
Intelligent Video Analytics	Tampering, Virtual Line, Enter / Exit, (Dis)Appear, Audio Detection, Face Detection	Tampering, Virtual Line, Enter / Exit, (Dis)Appear, Audio Detection, Face Detection	Motion Detection with Metadata, Tampering	Motion Detection with Metadata, Tampering	Tampering, Virtual Line, Enter / Exit, (Dis)Appear, Audio Detection, Face Detection	Tampering, Virtual Line, Enter / Exit, (Dis)Appear, Audio Detection, Face Detection
FEATURES						
Protocol	ONVIF Profile S, SUNAPI, Open Platform	ONVIF Profile S, SUNAPI, Open Platform	ONVIF Profile S & G, SUNAPI	ONVIF Profile S & G, SUNAPI	ONVIF Profile S, SUNAPI, Open Platform	ONVIF Profile S, SUNAPI, Open Platform
Alarm I/O	1 / 1	1 / 1	-	-	1 / 1	1 / 1
Audio	Bi-Directional	Bi-Directional	Uni-Directional	Uni-Directional	Bi-Directional	Bi-Directional
Edge Storage	Micro SD/SDHC/SDXC, NAS	SD/SDHC/SDXC, NAS	Micro SD/SDHC, NAS	Micro SD/SDHC, NAS	Micro SD/SDHC/SDXC, NAS	SD/SDHC/SDXC, NAS
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. 9.6W (12V DC) Max. 11.6W (PoE)	Max. 8.79W (12V DC) Max. 9.57W (PoE)	Max. 2.4W (PoE)	Max. 2.4W (PoE)	Max. 10.0W (12V DC) Max. 11.0W (PoE)	Max. 9.0W (12V DC, PoE)
Dimensions (WxHxD) / Weight	Ø132.1 x 107.6mm (Ø5.2" x 4.24") 605g (1.33 lb)	Ø132.1 x 107.6mm (Ø5.2" x 4.24") 505g (1.11 lb)	Ø110.0 x 86.0mm (Ø4.33" x 3.39") 250g (0.55 lb)	Ø110.0 x 86.0mm (Ø4.33" x 3.39") 240g (0.53 lb)	Ø132.1 x 107.6mm (Ø5.2" x 4.24") 575g (1.27 lb)	Ø132.1 x 107.6mm (Ø5.2" x 4.24") 525g (1.16 lb)
Additional Features	P-Iris, Defog	P-Iris, Defog	Lens Distortion Correction, Hallway View	Lens Distortion Correction, Hallway View	P-Iris, Defog	P-Iris, Defog

NETWORK



Wisenet III
SND-6011R



Wisenet Lite
SND-L6083R



Wisenet Lite
SND-L6013R



Wisenet III
SNV-6084



Wisenet Lite
SNV-6013



Wisenet III
SNV-6012M

	2MP	2MP	2MP	2MP	2MP	2MP
VIDEO						
Imaging Device	1/2.8" 2.38M CMOS	1/2.9" 2.19M CMOS	1/2.9" 2.19M CMOS	1/2.8" 2.38M CMOS	1/2.8" 2.38M CMOS	1/2.8" 2.38M CMOS
Video Compression Format	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
Resolution / Max. Frame Rate	2M / 30fps	2M / 30fps	2M / 30fps	2M / 60fps	2M / 60fps	2M / 60fps
Streaming Capacity	Multiple (Up to 10 Profiles)	Multiple (Up to 3 Profiles)	Multiple (Up to 3 Profiles)	Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)
Max. User Access	15 (Unicast)	6 (Unicast)	6 (Unicast)	15 (Unicast)	15 (Unicast)	15 (Unicast)
Min. Illumination	Color: 0.08 Lux B/W: 0 Lux (IR LED on)	Color: 0.095 Lux B/W: 0 Lux (IR LED on)	Color: 0.15 Lux B/W: 0 Lux (IR LED on)	Color: 0.03 Lux B/W: 0.002 Lux	Color: 0.15 Lux B/W: 0.15 Lux	Color: 0.15 Lux B/W: 0.15 Lux
Video Output	CVBS 1.0Vpp	-	-	CVBS 1.0Vpp DIP Connector Type	CVBS 1.0Vpp DIP Connector Type	CVBS 1.0Vpp DIP Connector Type
Lens	3.8mm fixed (F2.0)	2.8 ~ 12mm (4.3x) V/F (F1.4)	3.6mm fixed (F1.8)	3 ~ 8.5mm (2.8x) motorized V/F (F1.2)	2.8mm fixed (F1.8)	3mm fixed (F2.0)
Angular Field of View	H: 84.5° / V: 45.8° / D: 98.8°	H: 103.8°(Wide) ~ 32.4°(Tele) / V: 53.7°(Wide) ~ 18.4°(Tele) / D: 121.9°(Wide) ~ 37.1°(Tele)	H: 86.5° / V: 47.8° / D: 101.2°	H: 105.5°(Wide) ~ 37.1°(Tele) / V: 57.5°(Wide) ~ 21.0°(Tele)	H: 112.0° / V: 62.0°	H: 103.1° / V: 53.9° / D: 124.5°
Focus Control	-	Manual	-	Simple Focus (motorized V/F) / Manual	-	-
OPERATIONAL						
IR Viewable Length	10m (32.81ft)	15m (49.21ft)	15m (49.21ft)	-	-	-
Pan / Tilt / Rotate	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 350° / 0° ~ 67° / 0° ~ 355°	0° ~ 350° / 0° ~ 67° / 0° ~ 355°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	-	-10° ~ 10° / 0° ~ 90° / -
Day & Night	True (ICR)	True (ICR)	True (ICR)	True (ICR)	Electrical	Electrical
Backlight Compensation	WDR (120dB)	BLC, DWDR	BLC, DWDR	WDR (120dB)	WDR (120dB)	WDR (120dB)
Digital Noise Reduction	SSNR III (2D+3D Noise Filter)	SSNR	SSNR	SSNR III (2D+3D Noise Filter)	SSNR III (2D+3D Noise Filter)	SSNR III (2D+3D Noise Filter)
Digital Image Stabilization	Support	-	-	Support	Support	Support
Intelligent Video Analytics	Tampering, Virtual Line, Enter / Exit, (Dis) Appear, Audio Detection, Face Detection	Motion Detection with Metadata, Tampering	Motion Detection with Metadata, Tampering	Tampering, Virtual Line, Enter / Exit, (Dis) Appear, Audio Detection, Face Detection	Tampering, Virtual Line, Enter / Exit, (Dis) Appear, Face Detection, People counting, Zone analyzing	Tampering, Virtual Line, Enter / Exit, (Dis) Appear, Face Detection
FEATURES						
Protocol	ONVIF Profile S, SUNAPI, Open Platform	ONVIF Profile S & G, SUNAPI	ONVIF Profile S & G, SUNAPI	ONVIF Profile S, SUNAPI, Open Platform	ONVIF Profile S, SUNAPI, Open Platform	ONVIF Profile S, SUNAPI, Open Platform
Alarm I/O	1 / 0	-	-	1 / 1	-	-
Audio	-	Uni-Directional	Uni-Directional	Bi-Directional	-	-
Edge Storage	Micro SD/SDHC/SDXC	Micro SD/SDHC, NAS	Micro SD/SDHC, NAS	SD/SDHC/SDXC, NAS	SD/SDHC/SDXC, NAS	SD/SDHC/SDXC, NAS
Environment Protection	-	-	-	IP66, IK10	IP66, IK10	IP66, IK10 / EN50155, EN50121
Operating Temperature	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-40°C ~ +55°C (-40°F ~ +131°F) * Start up above -35°C (-31°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up above -10°C (+14°F)	-30°C ~ +55°C (-22°F ~ +131°F)
Power	Max. 8.0W (PoE)	Max. 5.4W (PoE)	Max. 5.9W (PoE)	Max. 14.0W - Heater on (24V AC, 12V DC) Max. 12.95W - Heater on (PoE)	Max. 7.5W (PoE)	Max. 7.5W (PoE)
Dimensions (WxHxD) / Weight	Ø120.0 x 101.8mm (Ø4.72" x 4.01") 380g (0.84 lb)	Ø119.8 x 98.8mm (Ø4.72" x 3.89") 290g (0.64 lb)	Ø110.0 x 86.0mm (Ø4.33" x 3.39") 245g (0.54 lb)	Ø160.0 x 118.5mm (Ø6.3" x 4.67") 985g (2.17 lb)	Ø112.8 x 63.7mm (Ø4.44" x 2.51") 550g (1.21 lb)	135.2 x 54.3 x 124.5mm (5.32" x 2.14" x 4.9") 530g (1.17 lb)
Additional Features	Defog	Lens Distortion Correction, Hallway View	Lens Distortion Correction, Hallway View	P-Iris, Defog	Defog	Defog, M12 connector

NETWORK



Wisenet III
SNV-7084R



Wisenet III
SNV-6084R



Wisenet Lite
SNV-L6083R



Wisenet Lite
SNV-L6013R



Wisenet Lite
SNV-L6014RM/L6014RBM



Wisenet III
SNP-6321H

	3MP	2MP	2MP	2MP	2MP	2MP
VIDEO						
Imaging Device	1/2.8" 3.2M CMOS	1/2.8" 2.38M CMOS	1/2.9" 2.19M CMOS	1/2.9" 2.19M CMOS	1/2.9" 2.19M CMOS	1/2.8" 2.38M CMOS
Video Compression Format	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
Resolution / Max. Frame Rate	3M / 30fps	2M / 60fps	2M / 30fps	2M / 30fps	2M / 30fps	2M / 60fps
Streaming Capacity	Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)	Multiple (Up to 3 Profiles)	Multiple (Up to 3 Profiles)	Multiple (Up to 3 Profiles)	Multiple (Up to 10 Profiles)
Max. User Access	15 (Unicast)	15 (Unicast)	6 (Unicast)	6 (Unicast)	6 (Unicast)	10 (Unicast)
Min. Illumination	Color: 0.06 Lux B/W: 0 Lux (IR LED on)	Color: 0.03 Lux B/W: 0 Lux (IR LED on)	Color: 0.095 Lux B/W: 0 Lux (IR LED on)	Color: 0.15 Lux B/W: 0 Lux (IR LED on)	Color: 0.15 Lux B/W: 0 Lux (IR LED on)	Color: 0.15 Lux B/W: 0.015 Lux
Video Output	CVBS 1.0Vpp DIP Connector Type	CVBS 1.0Vpp DIP Connector Type	-	-	-	CVBS 1.0Vpp
Lens	3 ~ 8.5mm (2.8x) motorized V/F (F1.2)	3 ~ 8.5mm (2.8x) motorized V/F (F1.2)	2.8 ~ 12mm (4.3x) V/F (F1.4)	3.6mm fixed (F1.8)	3.6mm fixed (F1.8)	4.44 ~ 142.6mm (Optical 32x) F1.6(Wide) / F4.4(Tele)
Angular Field of View	H: 100.12°(Wide) ~ 35.38°(Tele) / V: 73.76°(Wide) ~ 26.58°(Tele)	H: 105.5°(Wide) ~ 37.1°(Tele) / V: 57.5°(Wide) ~ 21.0°(Tele)	H: 103.8°(Wide) ~ 32.4°(Tele) / V: 53.7°(Wide) ~ 18.4°(Tele) / D: 121.9°(Wide) ~ 37.1°(Tele)	H: 86.5° / V: 47.8° / D: 101.2°	H: 86.5° / V: 47.8° / D: 101.2°	H: 62.8°(Wide) ~ 2.23°(Tele) / V: 36.8°(Wide) ~ 1.26°(Tele)
Focus Control	Simple Focus (motorized V/F) / Manual	Simple Focus (motorized V/F) / Manual	Manual	-	-	Auto / Manual / One push
OPERATIONAL						
IR Viewable Length	25m (82.02ft)	15m (49.21ft)	20m (65.62ft)	15m (49.21ft)	15m (49.21ft)	-
Pan / Tilt / Rotate	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 350° / 0° ~ 67° / 0° ~ 355°	-5° ~ 5° / 0° ~ 67° / 90°	-5° ~ 5° / 0° ~ 67° / 90°	360° Endless / 210° (-15° ~ 195°) / -
Day & Night	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)
Backlight Compensation	WDR (120dB)	WDR (120dB)	BLC, DWDR	BLC, DWDR	BLC, DWDR	WDR (120dB)
Digital Noise Reduction	SSNR III (2D+3D Noise Filter)	SSNR III (2D+3D Noise Filter)	SSNR	SSNR	SSNR	SSNR III (2D+3D Noise Filter)
Digital Image Stabilization	Support	Support	-	-	-	Support
Intelligent Video Analytics	Tampering, Virtual Line, Enter / Exit, (Dis) Appear, Audio Detection, Face Detection	Tampering, Virtual Line, Enter / Exit, (Dis) Appear, Audio Detection, Face Detection	Motion Detection with Metadata, Tampering	Motion Detection with Metadata, Tampering	Motion Detection with Metadata, Tampering	Tampering, Virtual Line, Enter / Exit, (Dis) Appear, Audio Detection, Face Detection
FEATURES						
Protocol	ONVIF Profile S, SUNAPI, Open Platform	ONVIF Profile S, SUNAPI, Open Platform	ONVIF Profile S & G, SUNAPI	ONVIF Profile S, SUNAPI	ONVIF Profile S, SUNAPI	ONVIF Profile S, SUNAPI, Open Platform
Alarm I/O	1 / 1	1 / 1	-	-	-	4 / 2 (Relay)
Audio	Bi-Directional	Bi-Directional	Uni-Directional	Uni-Directional	Uni-Directional	Bi-Directional
Edge Storage	Micro SD/SDHC/SDXC, NAS	SD/SDHC/SDXC, NAS	Micro SD/SDHC, NAS	Micro SD/SDHC, NAS	Micro SD/SDHC, NAS	SD/SDHC/SDXC, NAS
Environment Protection	IP66, IK10	IP66, IK10	IP66, IK10	IP66, IK10	IP66, IK10	IP66, IK10
Operating Temperature	-40°C ~ +55°C (-40°F ~ +131°F) (24V AC) -20°C ~ +55°C (-4°F ~ +131°F) (12V DC, PoE) * Start up above -10°C (+14°F)	-40°C ~ +55°C (-40°F ~ +131°F) (24V AC) -20°C ~ +55°C (-4°F ~ +131°F) (12V DC, PoE) * Start up above -10°C (+14°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) -30°C ~ +55°C (-22°F ~ +131°F) (PoE+)
Power	Max. 12.0W / 15.0W - Heater on (24V AC) Max. 10.5W (12V DC) Max. 11.5W (PoE)	Max. 9.5W / Max. 13.5W - Heater on (24V AC)	Max. 5.8W (PoE)	PoE	PoE	Max. 65.0W - AC & PoE Heater on (24V AC) Max. 25.0W - 24V AC Heater off / PoE Heater on (PoE+)
Dimensions (WxHxD) / Weight	Ø160.0 x 118.5mm (Ø6.3" x 4.67") 975g (2.15 lb)	Ø160.0 x 118.5mm (Ø6.3" x 4.67") 960g (2.12 lb)	Ø137.0 x 106.1mm (Ø5.39" x 4.18") 670g (1.48 lb)	99.0 x 52.0 x 100.0mm (3.9" x 2.05" x 3.94") 300g (0.66 lb)	99.0 x 52.0 x 100.0mm (3.9" x 2.05" x 3.94") 300g (0.66 lb)	Ø223.4 x 293.6mm (Ø8.8" x 11.56") 3.2Kg (7.05 lb)
Additional Features	P-Iris, Defog	P-Iris, Defog	Lens Distortion Correction, Hallway View	Lens Distortion Correction, Hallway View	M12 connector, Lens Distortion Correction, Hallway View, Built-in mic	RS-485, Defog

NETWORK



Wisenet III
SNP-6321



Wisenet III plus
SNP-6320H



Wisenet III plus
SNP-6320



Wisenet Lite
SNP-L6233H/L6233



Wisenet III plus
SNP-6320RH



Wisenet III plus
SNP-6230RH



Wisenet Lite
SNP-L6233RH

	2MP	2MP	2MP	2MP	2MP	2MP	2MP
VIDEO							
Imaging Device	1/2.8" 2.38M CMOS	1/2.8" 2.38M CMOS	1/2.8" 2.38M CMOS	1/2.8" 2.38M CMOS	1/2.8" 2.38M CMOS	1/2.8" 2.38M CMOS	1/2.8" 2.38M CMOS
Video Compression Format	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
Resolution / Max. Frame Rate	2M / 60fps	2M / 60fps	2M / 60fps	2M / 30fps	2M / 60fps	2M / 60fps	2M / 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)	Multiple (Up to 10 Profiles)
Max. User Access	10 (Unicast)	15 (Unicast)	15 (Unicast)	10 (Unicast)	15 (Unicast)	15 (Unicast)	15 (Unicast)
Min. Illumination	Color: 0.15 Lux B/W: 0.015 Lux	Color: 0.2 Lux B/W: 0.01 Lux	Color: 0.2 Lux B/W: 0.01 Lux	Color: 0.15 Lux B/W: 0.015 Lux	Color: 0.1 Lux B/W: 0 Lux (IR LED on)	Color: 0.1 Lux B/W: 0 Lux (IR LED on)	Color: 0.1 Lux B/W: 0 Lux (IR LED on)
Video Output	CVBS 1.0Vpp	CVBS 1.0Vpp	CVBS 1.0Vpp	CVBS 1.0Vpp	CVBS 1.0Vpp	CVBS 1.0Vpp	CVBS 1.0Vpp
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)	4.44 ~ 142.6mm (Optical 32x) F1.6(Wide) / F4.4(Tele)	4.44 ~ 102.1mm (Optical 23x)	4.4 ~ 140.8mm (IR Corrected Optical 32x) F1.6(Wide) / F4.9(Tele)	4.4 ~ 101.2mm (IR Corrected Optical 23x) F1.6(Wide) / F4.5(Tele)	4.4 ~ 101.2mm (IR Corrected Optical 23x) F1.6(Wide) / F4.5(Tele)
Angular Field of View	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: 62.8°(Wide) ~ 3.14°(Tele) / V: 36.8°(Wide) ~ 1.76°(Tele)	H: 63.68°(Wide) ~ 2.24°(Tele) / V: 37.52°(Wide) ~ 1.28°(Tele)	H: 63.68°(Wide) ~ 3.1°(Tele) / V: 37.52°(Wide) ~ 1.76°(Tele)	H: 63.68°(Wide) ~ 3.1°(Tele) / V: 37.52°(Wide) ~ 1.76°(Tele)
Focus Control	Auto / Manual / One push	Auto / Manual / One push	Auto / Manual / One push	Auto / Manual / One push	AF / One-shot AF / Manual	AF / One-shot AF / Manual	AF / One-shot AF / Manual
OPERATIONAL							
IR Viewable Length	-	-	-	-	150m (492.13ft)	100m (328.08ft)	100m (328.08ft)
Pan / Tilt / Rotate	360° Endless / 210° (-15° ~ 195°) / - True (ICR)	360° Endless / 210° (-15° ~ 195°) / - True (ICR)	360° Endless / 210° (-15° ~ 195°) / - True (ICR)	360° Endless / 210° (-15° ~ 195°) / - True (ICR)	360° Endless / 190° (-5° ~ 185°) / - True (ICR)	360° Endless / 190° (-5° ~ 185°) / - True (ICR)	360° Endless / 190° (-5° ~ 185°) / - True (ICR)
Backlight Compensation	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (100dB)	WDR (120dB)	WDR (120dB)	WDR (100dB)
Digital Noise Reduction	SSNR III (2D+3D Noise Filter)	SSNR III (2D+3D Noise Filter)	SSNR III (2D+3D Noise Filter)	SSNR III (2D+3D Noise Filter)	SSNR III (2D+3D Noise Filter)	SSNR III (2D+3D Noise Filter)	SSNR
Digital Image Stabilization	Support	Support	Support	Support	Support	Support	Support
Intelligent Video Analytics	Tampering, Virtual Line, Enter / Exit, (Dis)Appear, Audio Detection, Face Detection	Tampering, Virtual Line, Enter / Exit, (Dis)Appear, Audio Detection, Face Detection	Tampering, Virtual Line, Enter / Exit, (Dis)Appear, Audio Detection, Face Detection	Tampering, Virtual Line, Enter / Exit, (Dis)Appear, Audio Detection, Face Detection	Tampering, Virtual Line, Enter / Exit, (Dis)Appear, Audio Detection, Face Detection	Tampering, Virtual Line, Enter / Exit, (Dis)Appear, Audio Detection, Face Detection	Tampering, Virtual Line, Enter / Exit, (Dis)Appear, Audio Detection, Face Detection
FEATURES							
Protocol	ONVIF Profile S, SUNAPI, Open Platform	ONVIF Profile S, SUNAPI, Open Platform	ONVIF Profile S, SUNAPI, Open Platform	ONVIF Profile S, SUNAPI, Open Platform	ONVIF Profile S, SUNAPI, Open Platform	ONVIF Profile S, SUNAPI, Open Platform	ONVIF Profile S, SUNAPI
Alarm I/O	4 / 2 (Relay)	4 / 2 (Relay)	4 / 2 (Relay)	4 / 2 (Relay)	4 / 3 (Relay)	4 / 3 (Relay)	4 / 3 (Relay)
Audio	Bi-Directional	Bi-Directional	Bi-Directional	Bi-Directional	Bi-Directional	Bi-Directional	Bi-Directional
Edge Storage	SD/SDHC/SDXC, NAS	SD/SDHC/SDXC, NAS	Micro SD/SDHC/SDXC, NAS	SD/SDHC/SDXC, NAS	SD/SDHC/SDXC, NAS, Local PC	SD/SDHC/SDXC, NAS, Local PC	SD/SDHC/SDXC, NAS, Local PC
Environment Protection	IK10 (With SHP-3701H)	IP66, IK10	IK10 (With SHP-3701H)	IP66, IK10 (SNP-L6233H) IK10 (With SHP-3701H) (SNP-L6233)	IP66, IK10	IP66, IK10	IP66, IK10
Operating Temperature	-10°C ~ +55°C (+14°F ~ +131°F)	-50°C ~ +55°C (-58°F ~ +131°F) (24V AC) -30°C ~ +55°C (-22°F ~ +131°F) (PoE+)	-10°C ~ +55°C (+14°F ~ +131°F)	-50°C ~ +55°C (-58°F ~ +131°F) (24V AC) -30°C ~ +55°C (-22°F ~ +131°F) (PoE+) (SNP-L6233H) -10°C ~ +55°C (+14°F ~ +131°F) (SNP-L6233)	-50°C ~ +55°C (-58°F ~ +131°F)	-50°C ~ +55°C (-58°F ~ +131°F)	-50°C ~ +55°C (-58°F ~ +131°F)
Power	Max. 20.0W (24V AC, PoE+)	Max. 24.0W (24V AC, PoE+) Max. 65.0W - Heater on (24V AC)	Max. 20.0W (24V AC, PoE+)	Max. 65.0W - AC & PoE Heater on (24V AC) Max. 25.0W - PoE Heater on (PoE+) (SNP-L6233H) Max. 20.0W (24V AC, PoE+) (SNP-L6233)	Max. 30.0W - Heater off Max. 35.0W / 90.0W - Heater off / on, IR on (24V AC)	Max. 30.0W - Heater off Max. 35.0W / 90.0W - Heater off / on, IR on (24V AC)	Max. 30.0W - Heater off Max. 35.0W / 90.0W - Heater off / on, IR on (24V AC)
Dimensions (WxHxD) / Weight	Ø152.0 x 218.0mm (Ø5.98" x 8.58") 1.8Kg (3.97 lb)	Ø223.4 x 293.6mm (Ø8.8" x 11.56") 3.3Kg (7.28 lb)	Ø152.0 x 218.0mm (Ø5.98" x 8.58") 2.2Kg (4.85 lb)	Ø223.4 x 293.6mm (Ø8.8" x 11.56") 3.2Kg (7.05 lb) (SNP-L6233H) Ø152.0 x 218.0mm (Ø5.98" x 8.58") 1.8Kg (3.97 lb) (SNP-L6233)	Ø248.0 x 399.5mm (Ø9.76" x 15.73") 7.1Kg (15.65 lb)	Ø248.0 x 399.5mm (Ø9.76" x 15.73") 7.1Kg (15.65 lb)	Ø248.0 x 399.5mm (Ø9.76" x 15.73") 7.1Kg (15.65 lb)
Additional Features	RS-485, Defog	Auto tracking, RS-485, Defog	Auto tracking, RS-485, Defog	RS-485, Defog	Auto tracking, RS-485/422, Defog	Auto tracking, RS-485/422, Defog	RS-485/422, Defog

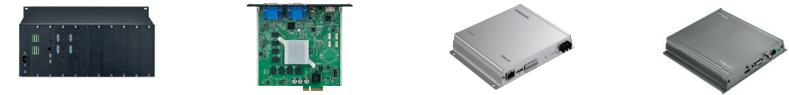
NETWORK

NVR



	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	-	-	-
Isolated Networks for Cameras / Source	Yes	Yes	Yes
Network Viewer Software	SSM, SmartViewer, iPOLIS Mobile	SSM, SmartViewer, iPOLIS Mobile	SSM, SmartViewer, iPOLIS Mobile
Local Monitor	HDMI / VGA	HDMI / VGA	HDMI / VGA
Camera Support	Samsung, ONVIF	Samsung, ONVIF	Samsung, 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

Decoder



	SPD-1660R	SPD-260B	SPD-400	SPD-150
Video Out	HDMI (16ea), VGA (16ea)	HDMI (2ea), VGA (2ea)	HDMI, VGA, CVBS	HDMI, VGA, CVBS
Resolution	HDMI up to 4K, VGA up to 1080p	HDMI up to 4K, VGA up to 1080p	H.264 : up to 2M / Quad View-up to 720p	HDMI up to 4K, VGA up to 1080p
Display	1 / 4 / 6 / 8 / 9 / 13 / 16 / 2V / 3V / 2H Hallway View mode (Up to 20 layouts and sequence)	1 / 4 / 6 / 8 / 9 / 13 / 16 / 2V / 3V / 2H Hallway View mode (Up to 20 layouts and sequence)	Single View, Quad View	(HDMI) 1 / 4 / 6 / 8 / 9 / 13 / 16 / 25 / 36(32) / 2V / 3V (VGA) 1 / 4 / 6 / 8 / 9 / 13 / 16 Spilt Mode, Hallway View Mode (Up to 20 Layouts and Sequence)
Support Device	-	-	Samsung, Axis	Wisenet
WebViewer	-	-	Supported OS : Window XP Supported Browser : IE 7.0 or 8.0, Firefox 2.x, 3.x, Chrome, Safari	-
Power	220V AC	-	12V DC	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	Blade card of SPD-1660R	-	Up to 48CH, H.265 / H.264 / MJPEG Codec, Layout Sequence Support

Encoder



	SPE-1610	SPE-410	SPE-400	SPE-101	SPE-100
Max. # of Cameras	16	4	4	1	1
Supported Compression	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG, MPEG-4	H.264, MJPEG, MPEG-4	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)	704 x 480 / 704 x 576 (NTSC / PAL)	704 x 480 / 704 x 576 (NTSC / PAL)	704 x 480 / 704 x 576 (NTSC / PAL)
Max. Frame Rate per Channe	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)	30/25fps (NTSC / PAL)	30/25fps (NTSC / PAL)
Bi-Directional Audio	Yes	Yes	Yes	-	Yes
RS-485	1	1	4	1	1
Alarm I/O	4 / 1	4 / 1	4 / 4	-	1 / 1
SD Card	-	-	SD/SDHC	-	SD/SDHC
ONVIF	Yes	Yes	Yes	Yes	Yes
Power	12V DC	12V DC	12V DC	12V DC / PoE	12V DC / PoE

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

OPEN VIDEO PLATFORM

Intuitive and easy to use

- An intuitive 'drag & drop' tool makes it extremely easy for operators to set up a display of live and recorded images on a single screen or video wall, with customisable layouts and sizes.
- A virtual PTZ which, with just simple clicks of a mouse, enables operators to zoom in to see close up detail of any suspicious activity.
- Motion detection and video analytics support can be configured to generate alerts when user defined incidents occur.
- A wide range of smart, keyword, calendar and time-slice search options facilitate rapid retrieval of recorded video.

Hanwha Techwin offers an entry level VMS called SSM and for sophisticated Enterprise level VMS projects, the company integrates with leading technology partners. Wisenet WAVE has been launched to answer the needs of projects in the middle ground with an emphasis on simplified user experience.

SUNAPI 2.0 INTEGRATION

Hanwha Techwin has launched Wisenet WAVE with full SUNAPI 2.0 integration for WISENET cameras and recorders.

Full SUNAPI 2.0 driver has been rigorously tested with Wisenet P, X, and Q series cameras resulting in:

- Video/Audio Streaming
- Event – MD, Alarm
- PTZ
- Edge recording



Hanwha Techwin specific features

NVR monitoring, search & playback; and deep camera integration with:

- H.265
- Wisestream
- All triggering Events including sound classification, loitering and queue management
- Simple focus setting
- Multi directional camera support
- Hallway view
- HTTPS
- Time Settings
- Camera profile / Image configuration
- PTZ preset sync

An operating system to suit your needs.

Wisenet WAVE has applications for all major operating systems so our users are not limited by what device or operating system they choose to use on their desktops, mobile devices, rack mount servers, or even low-powered embedded devices.



Cloud

A cloud-based service that enables simple, centralised remote access and insight into any Wisenet WAVE system.



Desktop

A rich media player designed to view and manage a single Wisenet WAVE system from a desktop or laptop PC.



Mobile

A mobile app designed for viewing Wisenet WAVE system video and events while on-the-go.



Server

A media server responsible for discovering, connecting to, and managing system devices and data.

Supported Browsers	Desktop OS Support	Mobile OS Support	Server OS Support
Google Chrome	Microsoft Windows	Google Android	Microsoft Windows
Mozilla Firefox	Ubuntu Linux	Apple iOS	Ubuntu Linux
Opera/ Opera Neon	Apple / Mac OSX		ARM Devices
Microsoft Edge			
Apple Safari			

Wisenet SSM

Wisenet SSM is video management software with features for both traditional and contemporary surveillance operations. It mainly consists of two parts; server and client software giving users a simple and easy to expand architecture. Server software includes core server for system management, plugins for intelligent business reports, transaction server to link your system to other surveillance areas such as access control, video decoder for wall display, and more. On the other hand, client software provides PC console for operators in security room and mobile viewer for guards on the move.

WHAT'S NEW IN WISENET SSM



Free Trial License

Users are given 45 days of trial period before activating license. During this period full features including recording are available. After trial periods, features will be limited and SSM will generate a warning message.



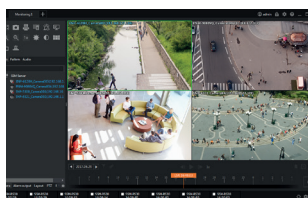
Single Core Server with Clustering

Basic servers such as MG, RS, SM, HA have been put in a single "Core Server" for new launched Wisenet SSM. In addition, these "Core Servers" can be clustered together providing higher level of reliability. From Wisenet SSM, a group of clustered core servers will be named 'Domain' and in the same domain, core servers will synchronize data.



New Client User Interface

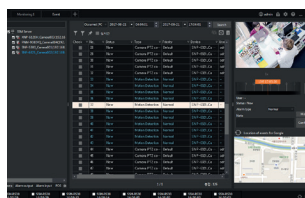
You can play back recorded video during live streaming and easily control playback up to 32x as well as reverse playback. Also Wisenet SSM displays the events in the same area as thumbnails making it easier to carry out a detailed search.



Live Streaming

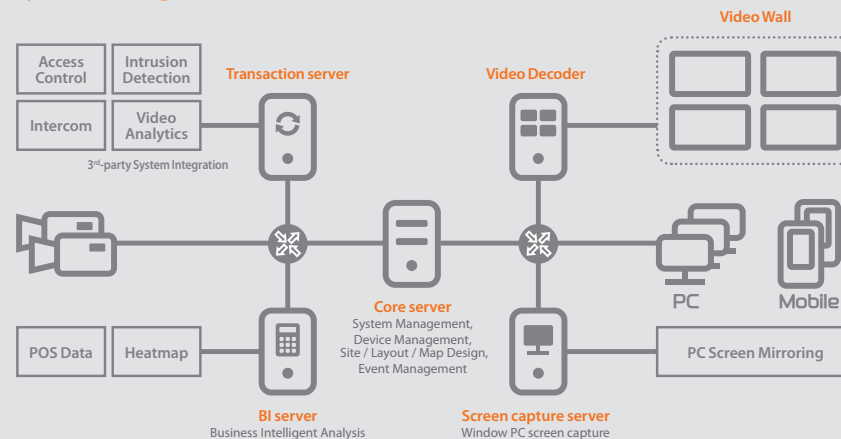


Display Events as Thumbnails



Location of Events for Google Map

System configuration



General	Wisenet SSM (v2.0)	
System		
Maximum Number of Monitoring Channel	Up to 10,000channel / domain	
Maximum Number of Recording Channel	Up to 10,000channel / domain	
Architecture	Server / Client	
Clients	Console Client, Mobile Viewer	
Supported Devices	Network camera / encoder / decoder, DVR / NVR, Controller	
Basic Component		
Core Server	Centralized License Management	45 days free trial
	Server Clustering	Data sharing, Failure management
	System Dashboard	Real-time system status monitoring
	User Management	Device access authority, Feature level authority
	Federation	Multi-tier domain federation, Max 100 domains
	Centralized Device Configuration	Auto / Manual Device and add-on server registration
	Device Connection	Up to 3,000 channel
	Event Configuration	4 levels event priority, Configurable event color
	Event Action	Rule based event and triggering action setup
	Layout & Pattern	User defined layout and tile pattern
Console Client	Tab Based Window	Live, Advanced search, Event, Configuration, Retail
	Number of Channels	Max 100 channels, Max 64 channels per tab
	Decoding	Hardware accelerator supported (NVIDIA CUDA)
	Playback	Multi channel playback, Bookmark
	Real-time Event	Event filtering by status, type, and priority
	Event Search	Event acknowledgement history
	Smart Search	Search by virtual area and virtual line
	Video Summary	Image preview, Video summary history management
	POS Text Search	Receipt list area, Keyword search
	Heatmap	Search by object type (Person, Vehicle) and time
	Counting Analysis	Statistic view, Map view, Report by date

ANALOG



**Wisenet HD+
HCB-7000**



**Wisenet HD+
HCO-7070R**



**Wisenet HD+
HCO-7010R/20R/30R**



**Wisenet HD+
HCD-7070R**



**Wisenet HD+
HCD-7010R/20R/30R**



**Wisenet HD+
HCV-7070R**



**Wisenet HD+
HCV-7010R/20R/30R**

	4MP	4MP	4MP	4MP	4MP	4MP	4MP
VIDEO							
Imaging Device	1/3" 4M CMOS	1/3" 4M CMOS	1/3" 4M CMOS	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	2560 x 1440	2560 x 1440	2560 x 1440
Min. Illumination	Color: 0.1 Lux B/W: 0.1 Lux	Color: 0.1 Lux B/W: 0 Lux (IR LED on)	Color: 0.15 Lux B/W: 0 Lux (IR LED on)	Color: TBD B/W: 0 Lux (IR LED on)	Color: 0.15 Lux B/W: 0 Lux (IR LED on)	Color: 0.1 Lux B/W: 0 Lux (IR LED on)	Color: 0.15 Lux B/W: 0 Lux (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)	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	-	30m (98.43ft)	20m (65.62ft) (HCO-7010R) 25m (82.02ft) (HCO-7020R) 30m (98.43ft) (HCO-7030R)	30m (98.43ft)	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: 102.0° (Wide) ~ 31.1° (Tele) / V: 54.3° (Wide) ~ 17.6° (Tele) / D: 123.5° (Wide) ~ 35.7° (Tele)	H: 113.3° / V: 62.9° / D: 132.0° (HCO-7010R) H: 82.5° / V: 44.5° / D: 107.9° (HCO-7020R) H: 51.1° / V: 29.4° / D: 58.5° (HCO-7030R)	H: 102.0° (Wide) ~ 31.1° (Tele) / V: 54.3° (Wide) ~ 17.6° (Tele) / D: 123.5° (Wide) ~ 35.7° (Tele)	H: 113.3° / V: 62.9° / D: 132.0° (HCD-7010R) H: 82.5° / V: 44.5° / D: 107.9° (HCD-7020R) H: 51.1° / V: 29.4° / D: 58.5° (HCD-7030R)	H: 102.0° (Wide) ~ 31.1° (Tele) / V: 54.3° (Wide) ~ 17.6° (Tele) / D: 123.5° (Wide) ~ 35.7° (Tele)	H: 113.3° / V: 62.9° / D: 132.0° (HCV-7010R) H: 82.5° / V: 44.5° / D: 107.9° (HCV-7020R) H: 51.1° / V: 29.4° / D: 58.5° (HCV-7030R)
Focus Control	Manual	Manual	Fixed	Manual	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°
OPERATIONAL							
Day & Night	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)
Backlight Compensation	BLC	BLC	BLC	BLC	BLC	BLC	BLC
Digital Noise Reduction	2D DNR	2D DNR	2D DNR	2D DNR	2D DNR	2D DNR	2D DNR
Motion Detection	Support	Support	Support	Support	Support	Support	Support
Privacy Masking	4 Zones	4 Zones	4 Zones	2 Zones	4 Zones	4 Zones	4 Zones
Intelligent Video Analytics	-	-	-	-	-	-	-
FEATURES							
Alarm I/O	MD Output 1	MD Output 1	MD Output 1	MD Output 1	MD Output 1	MD Output 1	MD Output 1
Communication	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)	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	-	-	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)	-30°C ~ +55°C (-22°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. 6W	Max. 6W	Max. 5.5W	Max. 4.2W	Max. 4W	Max. 4.2W	Max. 4W
Dimensions (WxHxD) / Weight	68.4 x 59.6 x 92.7mm (2.69" x 2.35" x 3.65") 600g (1.32lb)	Ø78.0 x 260.0mm (Ø3.07" x 10.24") (Without SunShield) 925g (2.04lb)	Ø58.6 x 165.2mm (Ø2.31" x 6.50") (Without SunShield) 910g (2.01lb)	Ø78.0 x 260.0mm (Ø3.07" x 10.24") 360g (0.79lb)	Ø78.0 x 260.0mm (Ø3.07" x 10.24") 350g (0.77lb)	Ø78.0 x 260.0mm (Ø3.07" x 10.24") 720g (1.59lb)	Ø137.0 x 94.0mm (Ø5.39" x 3.70") 700g (1.54lb)
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)	Video Transmission up to 500m (5C2V Coaxial Cable)	Video Transmission up to 500m (5C2V Coaxial Cable)

ANALOG



**Wisenet HD+
HCB-6001**



**Wisenet HD+
HCB-6000**



**Wisenet HD+
HCO-6080R**



**Wisenet HD+
HCO-6070R**



**Wisenet HD+
HCD-6080R**



**Wisenet HD+
HCD-6070R**

	2MP	2MP	2MP	2MP	2MP	2MP
VIDEO						
Imaging Device	1/2.8" 2M CMOS	1/2.9" 2M CMOS	1/2.9" 2M CMOS	1/2.9" 2M CMOS	1/2.9" 2M CMOS	1/2.9" 2M CMOS
Horizontal Resolution	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
Min. Illumination	Color: 0.09 Lux B/W: 0.009 Lux	Color: 0.04 Lux B/W: 0.004 Lux	Color: 0.11 Lux B/W: 0 Lux (IR LED on)	Color: 0.11 Lux B/W: 0 Lux (IR LED on)	Color: 0.11 Lux B/W: 0 Lux (IR LED on)	Color: 0.11 Lux B/W: 0 Lux (IR LED on)
Lens	-	-	3.2 ~ 10mm (3.1x) motorized V/F (F1.6)	3.2 ~ 10mm (3.1x) V/F (F1.6)	3.2 ~ 10mm (3.1x) motorized V/F (F1.6)	3.2 ~ 10mm (3.1x) V/F (F1.6)
IR Viewable Length	-	-	30m (98.43ft)	30m (98.43ft)	20m (65.62ft)	20m (65.62ft)
Angular Field of View	-	-	H: 106.4°(Wide) ~ 32.2°(Tele) / V: 56.2°(Wide) ~ 18.1°(Tele) / D: 129.4°(Wide) ~ 37.0°(Tele)	H: 106.4°(Wide) ~ 32.2°(Tele) / V: 56.2°(Wide) ~ 18.1°(Tele) / D: 129.4°(Wide) ~ 37.0°(Tele)	H: 106.4°(Wide) ~ 32.2°(Tele) / V: 56.2°(Wide) ~ 18.1°(Tele) / D: 129.4°(Wide) ~ 37.0°(Tele)	H: 106.4°(Wide) ~ 32.2°(Tele) / V: 56.2°(Wide) ~ 18.1°(Tele) / D: 129.4°(Wide) ~ 37.0°(Tele)
Focus Control	Simple Focus	Manual	Simple Focus	Manual	Simple Focus	Manual
Pan / Tilt / Rotate	-	-	-	-	0° ~ 350° / 0° ~ 67° / 0° ~ 355°	0° ~ 350° / 0° ~ 67° / 0° ~ 355°
OPERATIONAL						
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	SSNRIV	SSNRIV	SSNRIV	SSNRIV	SSNRIV	SSNRIV
Motion Detection	Support	Support	Support	Support	Support	Support
Privacy Masking	4 Zones	4 Zones	4 Zones	4 Zones	4 Zones	4 Zones
FEATURES						
Alarm I/O	0 / 1, External D/N 1	0 / 1, External D/N 1	MD Output 1	MD Output 1	MD Output 1	MD Output 1
Communication	AHD: ACP (AHD Coax Protocol), CVBS: Pelco-C (Coaxitron), CCP (CVI Coax Protocol), TCP (TVI Coax Protocol), RS-485	AHD: ACP (AHD Coax Protocol), CVBS: Pelco-C (Coaxitron), CCP (CVI Coax Protocol), TCP (TVI Coax Protocol), RS-485	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	-	-
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)	-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. 6W (24V AC & 12V DC)	Max. 3.5W (24V AC & 12V DC)	Max. 6.0W (24V AC & 12V DC)	Max. 6.0W (24V AC & 12V DC)	Max. 4.2W (24V AC & 12V DC)	Max. 4.2W (24V AC & 12V DC)
Dimensions (WxHxD) / Weight	73.1 x 67.2 x 123.9mm (2.9" x 2.6" x 4.9") 287g (0.63 lb)	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)	Ø78.0 x 260.0mm (Ø3.07" x 10.24") (Without SunShield) 922g (2.03 lb)	Ø119.8 x 98.8mm (Ø4.72" x 3.89") 304g (0.67 lb)	Ø119.8 x 98.8mm (Ø4.72" x 3.89") 304g (0.67 lb)
Additional Features	Video transmission up to 500m (5C2V Coaxial Cable)	Video transmission up to 500m (75-5 Coaxial Cable)	Video transmission up to 500m (75-5 Coaxial Cable)	Video transmission up to 500m (75-5 Coaxial Cable)	Video transmission up to 500m (75-5 Coaxial Cable)	Video transmission up to 500m (75-5 Coaxial Cable)

ANALOG



WISeNET HD+
HCV-6080R



WISeNET HD+
HCV-6070R



WISeNET HD+
HCM-9020VQ



WISeNET HD+
HCP-6230H/6230



WISeNET HD+
HCZ-6320



WISeNET HD+
SCB-6003

	2MP	2MP	2MP	2MP	2MP	2MP
VIDEO						
Imaging Device	1/2.9" 2M CMOS	1/2.9" 2M CMOS	1/3" 2M CMOS Sensor x 4ea	1/2.8" 2.38M CMOS	1/2.8" 2.38M CMOS	1/2.9" 2M CMOS
Horizontal Resolution	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
Min. Illumination	Color: 0.11 Lux B/W: 0 Lux (IR LED on)	Color: 0.11 Lux B/W: 0 Lux (IR LED on)	Color: 0.1 Lux (4mm) / 0.01 Lux (6mm) B/W: 0.01 Lux (4mm) / 0.01 Lux (6mm)	Color: 0.2 Lux B/W: 0.01 Lux	Color: 0.2 Lux B/W: 0.01 Lux	Color: 0.04 Lux B/W: 0.004 Lux
Lens	3.2 ~ 10mm (3.1x) motorized V/F (F1.6)	3.2 ~ 10mm (3.1x) V/F (F1.6)	4mm x 2ea, 6mm x 2ea	4.44 ~ 101.2mm (Optical 23x) F1.6 (Wide) / F3.63 (Tele)	4.44 ~ 142.6mm (Optical 32X) (F1.6)	-
IR Viewable Length	30m (98.43ft)	30m (98.43ft)	-	-	-	-
Angular Field of View	H: 106.4°(Wide) ~ 32.2°(Tele) / V: 56.2°(Wide) ~ 18.1°(Tele) / D: 129.4°(Wide) ~ 37.0°(Tele)	H: 106.4°(Wide) ~ 32.2°(Tele) / V: 56.2°(Wide) ~ 18.1°(Tele) / D: 129.4°(Wide) ~ 37.0°(Tele)	[4mm] H: 80.20° / V: 43.50° / D: 95.24° [6mm] H: 51.66° / V: 30.46° / D: 60.78°	H: 62.8°(Wide) ~ 3.14°(Tele) / V: 36.8°(Wide) ~ 1.76°(Tele)	H: 62.8°(Wide) ~ 2.23°(Tele) / V: 36.80°(Wide) ~ 1.26°(Tele)	-
Focus Control	Simple Focus	Manual	Fixed	Auto / Manual / One push	Auto / Manual / One push	-
Pan / Tilt / Rotate	0° ~ 350° / 0° ~ 67° / 0° ~ 355°	0° ~ 350° / 0° ~ 67° / 0° ~ 355°	20° ~ 60° / 0° / 355°	360° Endless / 210° (-15° ~ 195°) / -	-	-
OPERATIONAL						
Day & Night	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)
Backlight Compensation	WDR (120dB)	WDR (120dB)	WDR (100dB)	WDR (120dB)	WDR (120dB)	BLC / DWDR
Digital Noise Reduction	SSNRIV	SSNRIV	Off / Low / Middle / High	SSNRIII	SSNRIII	SSNRIV
Motion Detection	Support	Support	Support	Support	Support	Support
Privacy Masking	4 Zones	4 Zones	16 Zones	32 Zones	32 Zones	4 Zones
FEATURES						
Alarm I/O	MD Output 1	MD Output 1	0 / 4	4 / 2 (Relay)	-	0 / 1
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)	Pelco-C (Coaxitron), Pelco-D (RS485)	RS-485: Samsung-T/E, Pelco-P/D, Sungjin, Panasonic, Honeywell, AD, Vicon, Bosch, GE AHD: ACP (AHD Coax Protocol)	RS-485: Samsung-T/E, Pelco-D/P, Sungjin, Panasonic, Bosch, AD, GE, Vicon, Honeywell Coaxial: ACP (AHD Coax Protocol)	AHD: ACP (AHD Coax Protocol), CVBS: Pelco-C (Coaxitron), RS-485
Environment Protection	IP66, IK10	IP66, IK10	IP66, IK10	IP66, IK10 (HCP-6230H), IK10 (With SHP-3701H) (HCP-6230)	-	-
Operating Temperature	-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 ~ +50°C (-22°F ~ +122°F) * Start up above -10°C (+14°F)	-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)	-10°C ~ +55°C (+14°F ~ +131°F)
Power	Max. 4.2W (24V AC & 12V DC)	Max. 4.2W (24V AC & 12V DC)	Max. 7.3W, TDN On (24V AC) Max. 6.7W, TDN On (12V DC)	Max. 24.0W / 65.0W - Heater off / on (24V AC) (HCP-6230H) Max. 20.0W (24V AC) (HCP-6230)	Max. 6W (TBD)	Max. 3.5W (24V AC & 12V DC)
Dimensions (WxHxD) / Weight	Ø119.8 x 98.8mm (Ø4.72" x 3.89") 304g (0.67 lb)	Ø119.8 x 98.8mm (Ø4.72" x 3.89") 304g (0.67 lb)	Ø199 x 89.5mm (7.83" x 3.52") 2Kg (4.41 lb)	Ø220.0 x 293.6mm (Ø8.66" x 11.56") 3.3Kg (7.28 lb) (SNP-6320HA), Ø152.0 x 218.0mm (Ø5.98" x 8.58") 2.2Kg (4.85 lb) (SNP-6320A)	TBD	68.4 x 59.6 x 92.7mm (2.69" x 2.35" x 3.65") 175.5g (0.39 lb)
Additional Features	Video transmission up to 500m (75-5 Coaxial Cable)	Video transmission up to 500m (75-5 Coaxial Cable)	Multi-directional camera	Defog	Defog	Defog

ANALOG



Wisenet HD+
SCO-6083R



Wisenet HD+
SCO-6023R



Wisenet HD+
SCD-6083R



Wisenet HD+
SCD-6023R



Wisenet HD+
SCD-6013



Wisenet HD+
SCV-6083R



Wisenet HD+
SCV-6023R

	2MP	2MP	2MP	2MP	2MP	2MP	2MP
VIDEO							
Imaging Device	1/2.9" 2M CMOS	1/2.9" 2M CMOS	1/2.9" 2M CMOS	1/2.9" 2M CMOS	1/3" 2M CMOS	1/2.9" 2M CMOS	1/2.9" 2M CMOS
Horizontal Resolution	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
Min. Illumination	Color: 0.11 Lux B/W: 0 Lux (IR LED on)	Color: 0.25 Lux B/W: 0 Lux (IR LED on)	Color: 0.11 Lux B/W: 0 Lux (IR LED on)	Color: 0.25 Lux B/W: 0 Lux (IR LED on)	Color: 0.11 Lux B/W: 0.01 Lux	Color: 0.11 Lux B/W: 0 Lux (IR LED on)	Color: 0.25 Lux B/W: 0 Lux (IR LED on)
Lens	2.8 ~ 12mm (4.3x) V/F (F1.4)	4mm fixed (F 2.1)	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	30m (98.43ft)	20m (65.62ft)	20m (65.62ft)	20m (65.62ft)	-	30m (98.43ft)	20m (65.62ft)
Angular Field of View	H: 103.8°(Wide) ~ 32.4°(Tele) / V: 53.7°(Wide) ~ 18.4°(Tele) / D: 121.9°(Wide) ~ 37.1°(Tele)	H: 72.2° / V: 52.9° / D: 94.3°	H: 103.8°(Wide) ~ 32.4°(Tele) / V: 53.7°(Wide) ~ 18.4°(Tele) / D: 121.9°(Wide) ~ 37.1°(Tele)	H: 72.2° / V: 52.9° / D: 94.3°	H: 108.7° / V: 60.6° / D: 125.4°	H: 103.8°(Wide) ~ 32.4°(Tele) / V: 53.7°(Wide) ~ 18.4°(Tele) / D: 121.9°(Wide) ~ 37.1°(Tele)	H: 72.2° / V: 52.9° / D: 94.3°
Focus Control	Manual	Fixed	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°
OPERATIONAL							
Day & Night	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)
Backlight Compensation	BLC / DWDR	BLC / DWDR	BLC / DWDR	BLC / DWDR	DWDR / BLC / HLC	BLC / DWDR	BLC / DWDR
Digital Noise Reduction	SSNRIV	SSNRIV	SSNRIV	SSNRIV	SSNRIV	SSNRIV	SSNRIV
Motion Detection	Support	Support	Support	Support	Support	Support	Support
Privacy Masking	4 Zones	4 Zones	4 Zones	4 Zones	4 Zones	4 Zones	4 Zones
FEATURES							
Alarm I/O	0 / 1	-	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)	AHD : ACP (AHD Coax Protocol), CVBS : Pelco-C (Coaxitron)	AHD : ACP (AHD Coax Protocol), CVBS : Pelco-C (Coaxitron)
Environment Protection	IP66, IK10	IP66	-	-	-	IP66, IK10	IP66, IK10
Operating Temperature	-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)	-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. 6.0W (24V AC & 12V DC)	Max. 4.2W (12V DC)	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	Ø78.0 x 260.0mm (3.07" x 10.24") (Without SunShield) 922g (2.03 lb)	Ø58.6 x 165.2mm (Ø2.31" x 6.5") (Without SunShield) 208g (0.46 lb)	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 3.7") 560g (1.23 lb)
Additional Features	Defog	Defog	Defog	Defog	Defog	Defog	Defog

ANALOG



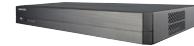
**Wisenet HD+
HRD-1642**



**Wisenet HD+
HRD-1641**



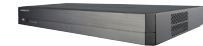
**Wisenet HD+
SRD-1694**



**Wisenet HD+
SRD-1684**



**Wisenet HD+
HRD-841**



**Wisenet HD+
HRD-840**

Channel		16CH	16CH	16CH	16CH/8CH/4CH	8CH	8CH
OS	Embedded	Linux	Linux	Linux	Linux	Linux	Linux
Live	Frame Rate (NTSC / PAL)	480fps / 400fps	480fps / 400fps	480fps / 400fps	480fps / 400fps (SRD-1684) 240fps / 200fps (SRD-893) 120fps / 100fps (SRD-493)	240fps / 200fps	240fps / 200fps
Recording	Max. Record Rate / NTSC	240fps@2560 x 1440 480fps@1920 x 1080	240fps@2560 x 1440 480fps@1920 x 1080	480fps@1920 x 1080	240fps@1920 x 1080	120fps@2560 x 1440 240fps@1920 x 1080	120fps@2560 x 1440 240fps@1920 x 1080
	Max. Record Rate / PAL	200fps@2560 x 1440 400fps@1920 x 1080	200fps@2560 x 1440 400fps@1920 x 1080	400fps@1920 x 1080	200fps@1920 x 1080	100fps@2560 x 1440 200fps@1920 x 1080	100fps@2560 x 1440 200fps@1920 x 1080
	Compression	H.264	H.264	H.264	H.264	H.264	H.264
Video	Inputs	16CH : AHD, TVI, CVI, NTSC, PAL	16CH : AHD, TVI, CVI, NTSC, PAL	16CH : AHD, NTSC, PAL	16CH : AHD, NTSC, PAL	8CH : AHD, TVI, CVI, NTSC, PAL	8CH : AHD, TVI, CVI, NTSC, PAL
Audio	Inputs	16CH (Built-in 4CH)	4CH	16CH (Built-in 4CH)	1CH	4CH	1CH
Storage	Internal HDD	Up to 8 SATA HDDs	Up to 2 SATA HDDs	Up to 8 SATA HDDs	1 SATA HDD	Up to 2 SATA HDDs	Up to 1 SATA HDDs
Monitors	VGA	Yes	Yes	Yes	Yes	Yes	Yes
	HDMI	Yes	Yes	Yes	Yes	Yes	Yes
	Spot Composite	1CH (BNC)	1CH (BNC)	1CH (Digital)	-	1CH (BNC)	1CH (BNC)
Connections	USB	2 Ports	2 Ports	2 Ports	2 Ports	2 Ports	2 Ports
	e-SATA	2 External SATA ports	1 External SATA port	2 External SATA Ports	-	1 External SATA port	-
	Mouse	Yes	Yes	Yes	Yes	Yes	Yes
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	1080p, 720p, 4CIF, 2CIF, CIF	4CIF, 2CIF, CIF	4MP, 1080p, 720p, WD1, 4CIF, CIF	4MP, 1080p, 720p, WD1, 4CIF, CIF
	Monitoring	SmartViewer, WebViewer, Mobile Viewer, SSM	SSM, Webviewer, SmartViewer, iPOLIS Mobile Viewer	SmartViewer, WebViewer, SSM	SmartViewer, WebViewer, Mobile Viewer, SSM	SSM, Webviewer, SmartViewer, iPOLIS Mobile Viewer	SSM, Webviewer, SmartViewer, iPOLIS Mobile Viewer
PTZ Control	Coax Protocol	NTSC / PAL : Pelco-C (Coaxitron) AHD : ACP (AHD Coax Protocol)	NTSC / PAL : Pelco-C (Coaxitron) AHD : ACP (AHD Coax protocol)	NTSC / PAL : Samsung CCVC, Pelco-C (Coaxitron) AHD : ACP (AHD Coax Protocol)	NTSC / PAL : PTZ control via coaxial cable 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)
	RS-485 Protocol	Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, VICON, ELMO, GE	Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, VICON, ELMO, GE	Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, VICON, ELMO, GE	Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, VICON, GE	Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, VICON, ELMO, GE	Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, VICON, ELMO, GE

• Option : Audio extension cable

Wisenet

ANALOG



**Wisenet HD+
HRD-842**



**Wisenet HD+
SRD-894**



**Wisenet HD+
SRD-494**



**Wisenet HD+
HRD-440**



**Wisenet HD+
HRD-442**

Channel		8CH	8CH	4CH	4CH	4CH
OS	Embedded	Linux	Linux	Linux	Linux	Linux
Live	Frame Rate (NTSC / PAL)	240fps / 200fps	240fps / 200fps	120fps / 100fps	120fps / 100fps	120fps / 100fps
Recording	Max. Record Rate / NTSC	120fps@2560 x 1440 240fps@1920 x 1080	240fps@1920 x 1080	120fps@1920 x 1080	60fps@2560 x 1440 120fps@1920 x 1080	60fps@2560 x 1440 120fps@1920 x 1080
	Max. Record Rate / PAL	100fps@2560 x 1440 200fps@1920 x 1080	200fps@1920 x 1080	100fps@1920 x 1080	50fps@2560 x 1440 100fps@1920 x 1080	50fps@2560 x 1440 100fps@1920 x 1080
	Compression	H.264	H.264	H.264	H.264	H.264
Video	Inputs	8CH : AHD, TVI, CVI, NTSC, PAL	8CH : AHD, NTSC, PAL	4CH : AHD, NTSC, PAL	4CH : AHD, TVI, CVI, NTSC, PAL	4CH : AHD, HDTV, HDCVI, NTSC, PAL
Audio	Inputs	8CH (Built-in 4CH)	8CH (Built-in 4CH)	4CH	1CH	4CH
Storage	Internal HDD	Up to 4 SATA HDDs	Up to 4 SATA HDDs	Up to 2 SATA HDDs	Up to 1 SATA HDDs	Up to 2 SATA HDDs
Monitors	VGA	Yes	Yes	Yes	Yes	Yes
	HDMI	Yes	Yes	Yes	Yes	Yes
	Spot Composite	1CH (BNC)	2CH (Digital)	2CH (Digital)	1CH (BNC)	1CH (BNC)
Connections	USB	2 Ports	2 Ports	2 Ports	2 Ports	2 Ports
	e-SATA	1 External SATA port	2 External SATA Ports	-	-	-
	Mouse	Yes	Yes	Yes	Yes	Yes
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
	Transmission	4MP, 1080p, 720p, WD1, 4CIF, 2CIF, CIF	1080p, 720p, 4CIF, 2CIF, CIF	1080P, 720P, 4CIF, 2CIF, CIF	4MP, 1080p, 720p, WD1, 4CIF, CIF	4MP, 1080P, 720P, WD1, 4CIF, CIF
	Monitoring	SmartViewer, WebViewer, Mobile Viewer, SSM	SmartViewer, WebViewer, SSM	SmartViewer, WebViewer, SSM	SSM, Webviewer, SmartViewer, iPOLIS Mobile Viewer	SmartViewer, WebViewer, Mobile Viewer, SSM
PTZ Control	Coax Protocol	NTSC / PAL : Pelco-C (Coaxitron) AHD : ACP (AHD Coax Protocol)	NTSC / PAL : Samsung CCVC, Pelco-C (Coaxitron) AHD : ACP (AHD Coax Protocol)	NTSC / PAL : Samsung CCVC, 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)
	RS-485 Protocol	Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, VICON, ELMO, GE	Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, VICON, ELMO, GE	Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, VICON, ELMO, GE	Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, VICON, ELMO, GE	Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, VICON, ELMO, GE

• Option : Audio extension cable

Wisenet

ANALOG



BEYOND
SCB-5000



BEYOND
SCO-5083R



W7
SCO-5081R



BEYOND
SCD-5083



BEYOND
SCD-5080

TV Lines		1000TVL	1000TVL	1000TVL	1000TVL	1000TVL
VIDEO	Imaging Device	1/3" 1.3M CMOS	1/3" 1.3M CMOS	1/3" 2M CMOS	1/3" 1.3M CMOS	1/3" 1.3M CMOS
	Horizontal Resolution	Color: 1000TV lines	Color: 1000TV lines	Color: 1000TV lines	Color: 1000TV lines	Color: 1000TV lines
	Min. Illumination	Color: 0.01 Lux	Color: 0.02 Lux B/W: 0 Lux (IR LED on)	Color: 0.02 Lux B/W: 0 Lux (IR LED on)	Color: 0.01 Lux B/W: 0.001 Lux	Color: 0.02 Lux
	Lens	-	3 ~ 10mm (3.3x) V/F (F1.4)	3 ~ 10mm (3.3x) V/F (F1.4)	2.8 ~ 10.5mm (3.8x) V/F (F1.2)	3 ~ 10mm (3.3x) V/F (F1.4)
	IR Viewable Length	-	50m (164.04ft)	50m (164.04ft)	-	-
	Angular Field of View	-	H: 82.0°(Wide) ~ 26.5°(Tele) / V: 59.7°(Wide) ~ 19.9°(Tele)	H: 83.1°(Wide) ~ 26.9°(Tele) / V: 60.5°(Wide) ~ 20.2°(Tele)	H: 91.5°(Wide) ~ 27.7°(Tele) / V: 68.3°(Wide) ~ 20.8°(Tele)	H: 82.0°(Wide) ~ 26.5°(Tele) / V: 59.7°(Wide) ~ 19.9°(Tele)
	Pan / Tilt / Rotate	-	-	-	0° ~ 354° / 0° ~ 68° / 0° ~ 355°	0° ~ 354° / 0° ~ 68° / 0° ~ 355°
OPERATIONAL	Day & Night	Electrical	True (ICR)	True (ICR)	True (ICR)	Electrical
	Backlight Compensation	BLC / HLC	WDR (120dB)	BLC / HLC	WDR (120dB)	BLC / HLC
	Digital Noise Reduction	SSNRIV	SSNRIV	SSNRIV	SSNRIV	SSNRIV
	Motion Detection	Support	Support	Support	Support	Support
	Privacy Masking	24 Zones (4 Points Polygonal Masking)	24 Zones (4 Points Polygonal Masking)	24 Zones (4 Points Polygonal Masking)	24 Zones (4 Points Polygonal Masking)	24 Zones (4 Points Polygonal Masking)
	Intelligent Video Analytics	-	Fence, (Dis)Appear, Counting	Fence, (Dis)Appear, Counting	Fence, (Dis)Appear, Counting	-
FEATURES	Alarm I/O	-	0 / 1	0 / 1	0 / 1	-
	Communication	Coax: Pelco-C (Coaxitron)	Coax: Pelco-C (Coaxitron), RS-485	Coax: Pelco-C (Coaxitron), RS-485	Coax: Pelco-C (Coaxitron)	Coax: 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)	-10°C ~ +55°C (+14°F ~ +131°F)
	Power	N/P: Max. 3.7W (24V AC & 12V DC) ND/PD: Max. 2.7W (12V DC) PH: Max. 4.6W (230V AC)	Max. 9.5W (24V AC & 12V DC)	Max. 9.5W (24V AC & 12V DC)	Max. 5.6W (24V AC & 12V DC)	Max. 3.5W (24V AC & 12V DC)
	Dimensions (WxHxD) / Weight	68.4 x 59.6 x 92.7mm (2.69" x 2.35" x 3.65") N/P/PD: 200g (0.44 lb) ND: 175g (0.39 lb)	Ø78.0 x 272.8mm (3.07" x 10.74") (Without SunShield) 1.5Kg (3.3 1 lb)	Ø78.0 x 272.8mm (3.07" x 10.74") (Without SunShield) 1.5Kg (3.3 1 lb)	Ø119.8 x 101.8mm (Ø4.72" x 4.01") 535g (1.18 lb)	Ø119.8 x 101.8mm (Ø4.72" x 4.01") 520g (1.15 lb)
	Additional Features	Digital Image Stabilization, Defog, Tampering	Digital Image Stabilization, Defog, Tampering	Digital Image Stabilization, Defog, Tampering	Digital Image Stabilization, Defog, Tampering	Digital Image Stabilization, Defog, Tampering

ANALOG



BEYOND
SCD-5020



BEYOND
SCD-5083R



BEYOND
SCV-5083



W7
SCV-5081R

	1000TVL	1000TVL	1000TVL	1000TVL
VIDEO				
Imaging Device	1/3" 1.3M CMOS	1/3" 1.3M CMOS	1/3" 1.3M CMOS	1/3" 2M CMOS
Horizontal Resolution	Color : 1000TV lines	Color : 1000TV lines	Color : 1000TV lines	Color : 1000TV lines
Min. Illumination	Color : 0.05 Lux	Color : 0.02 Lux B/W : 0 Lux (IR LED on)	Color : 0.01 Lux B/W : 0.001 Lux	Color : 0.02 Lux B/W : 0 Lux (IR LED on)
Lens	3.6mm fixed (F1.8)	3 ~ 10mm (3.3x) V/F (F1.4)	2.8 ~ 10.5mm (3.8x) V/F (F1.2)	3 ~ 10mm (3.3x) V/F (F1.4)
IR Viewable Length	-	30m (98.43ft)	-	30m (98.43ft)
Angular Field of View	H : 78.0° / V : 62.5° / D : 100.0°	H : 82.0°(Wide) ~ 26.5°(Tele) / V : 59.7°(Wide) ~ 19.9°(Tele)	H : 91.5°(Wide) ~ 27.7°(Tele) / V : 68.3°(Wide) ~ 20.8°(Tele)	H : 83.1°(Wide) ~ 26.9°(Tele) / V : 60.5°(Wide) ~ 20.2°(Tele)
Pan / Tilt / Rotate	0° ~ 352° / 0° ~ 75° / 0° ~ 348°	0° ~ 354° / 0° ~ 68° / 0° ~ 355°	0° ~ 354° / 0° ~ 68° / 0° ~ 355°	0° ~ 354° / 0° ~ 68° / 0° ~ 355°
OPERATIONAL				
Day & Night	Electrical	True (ICR)	True (ICR)	True (ICR)
Backlight Compensation	BLC / HLC	WDR (120dB)	WDR (120dB)	BLC / HLC
Digital Noise Reduction	SSNRIV	SSNRIV	SSNRIV	SSNRIV
Motion Detection	Support	Support	Support	Support
Privacy Masking	24 Zones (4 Points Polygonal Masking)	24 Zones (4 Points Polygonal Masking)	24 Zones (4 Points Polygonal Masking)	24 Zones (4 Points Polygonal Masking)
Intelligent Video Analytics	-	Fence, (Dis)Appear, Counting	Fence, (Dis)Appear, Counting	Fence, (Dis)Appear, Counting
FEATURES				
Alarm I/O	-	0 / 1	0 / 1	0 / 1
Communication	Coax : Pelco-C (Coaxitron)	Coax : Pelco-C (Coaxitron)	Coax : Pelco-C (Coaxitron)	Coax : 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)	-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. 2.8W (12V DC)	Max. 6.0W (24V AC & 12V DC)	Max. 5.6W (24V AC & 12V DC)	Max. 6.0W (24V AC & 12V DC)
Dimensions (WxHxD) / Weight	Ø107.6 x 84.0mm (Ø4.24" x 3.31") 394g (0.87 lb)	Ø119.8 x 101.8mm (Ø4.72" x 4.01") 550g (1.21 lb)	Ø137.0 x 106.1mm (Ø5.39" x 4.18") 720g (1.59 lb)	Ø137.0 x 106.1mm (Ø5.39" x 4.18") 750g (1.65 lb)
Additional Features	Digital Image Stabilization, Defog, Tampering	Digital Image Stabilization, Defog, Tampering	Digital Image Stabilization, Defog, Tampering	Digital Image Stabilization, Defog, Tampering

ANALOG

DVR



BEYOND
SRD-1676D



BEYOND
SRD-1656D



BEYOND
SRD-876D



BEYOND
SRD-476D

Channel		16CH	16CH	8CH	4CH
OS	Embedded	Linux	Linux	Linux	Linux
Live	Frame Rate (NTSC / PAL)	480fps / 400fps	480fps / 400fps	240fps / 200fps	120fps / 100fps
Recording	Max. Record Rate / NTSC	480fps@1280 x 480	120fps@1280 x 480	240fps@1280 x 480	120fps@1280 x 480 * P/B : 60fps@1280 x 480, 120fps@960 x 480
	Max. Record Rate / PAL	400fps@1280 x 576	100fps@1280 x 576	200fps@1280 x 576	100fps@1280 x 576 * P/B : 50fps@1280 x 576, 120fps@960 x 576
	Compression	H.264	H.264	H.264	H.264
Video	Inputs	16CH	16CH	8CH	4CH
	Loop Outputs	Yes	Yes	Yes	Yes
Audio	Inputs	16CH (Built-in 4CH)	16CH (Built-in 4CH)	8CH (Built-in 4CH)	4CH
Storage	Internal HDD	Up to 4 SATA HDDs	Up to 4 SATA HDDs	Up to 4 SATA HDDs	Up to 1 SATA HDD
	External HDD	Up to 2 Expansion Bays	Up to 2 Expansion Bays	Up to 2 Expansion Bays	-
Monitors	VGA	Yes	Yes	Yes	Yes
	HDMI	Yes	Yes	Yes	Yes
	Main Composite	-	-	-	-
	Spot Composite	2CH (Digital)	2CH (Digital)	2CH (Digital)	2CH (Digital 1CH / Analog 1CH)
Connections	USB	2 Ports	2 Ports	2 Ports	2 Ports
	e-SATA	2 External SATA Ports	2 External SATA Ports	2 External SATA Ports	-
	DVD Writer (Backup)	Yes	Yes	Yes	Yes
	Mouse	Yes	Yes	Yes	Yes
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
	Transmission	4CIF, 2CIF, CIF	4CIF, 2CIF, CIF	4CIF, 2CIF, CIF	4CIF, 2CIF, CIF
	Monitoring	SmartViewer, WebViewer, SSM	SmartViewer, WebViewer, SSM	SmartViewer, WebViewer, SSM	SmartViewer, WebViewer, SSM
Removable BNC Panel		-	-	-	-
PTZ Control	Coax Protocol	Samsung CCVC, Pelco-C	Samsung CCVC, Pelco-C	Samsung CCVC, Pelco-C	Samsung CCVC, Pelco-C
	RS-485 Protocol	Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, VICON, ELMO, GE	Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, VICON, ELMO, GE	Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, VICON, ELMO, GE	Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, VICON, ELMO, GE

• Option : Audio extension cable * Coaxial communication not supported

MONITOR / CONTROLLER

LED Monitor



SMT-4933



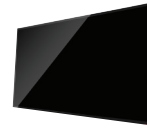
SMT-4032A



SMT-4033



SMT-3233



SMT-3232A



SMT-2731



SMT-2233



SMT-1935



SMT-1931

Screen Size	49" (UHD)	40"	40"	32"	32"	27"	22"	19"	19"
Resolution (pixels HxV)	3,840 x 2,160	1,920 x 1,080	1,920 x 1,080	1,920 x 1,080	1,920 x 1,080	1,920 x 1,080	1,920 x 1,080	1,280 x 1,024	1,366 x 768
Video In/Out	-	1	1	1	1	2 / 2	2 / 2	2 / 2	2 / 2
VGA	1	1	1	1	1	1	1	1	1
DVI / HDMI	2 / 4	1 / 1	1 / 1	1 / 1	1 / 1	0 / 1	0 / 1	0 / 1	0 / 1
USB	Yes (S/W Update Only)	Yes	-	-	Yes	-	-	-	-
Audio In (Stereo)	1	2	1	1	2	2	2	2	2
Contrast Ratio	4,700 : 1	5,000 : 1	5,000 : 1	5,000 : 1	5,000 : 1	1,000 : 1	1,000 : 1	1,000 : 1	1,000 : 1
Aspect Ratio	16 : 9	16 : 9	16 : 9	16 : 9	16 : 9	16 : 9	16 : 9	4 : 3	16 : 9
Response Time	8ms	8ms	8ms	8ms	8ms	5ms	5ms	5ms	5ms
Brightness	500cd/m ²	350cd/m ²	350cd/m ²	350cd/m ²	350cd/m ²	300cd/m ²	250cd/m ²	250cd/m ²	250cd/m ²
Tempered Glass Screen	-	-	-	-	-	Yes	Yes	Yes	Yes
Picture In Picture	-	Yes	-	-	Yes	-	-	-	-
Built-in Speakers	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Stand	General (Optional)	General (Optional)	General (Optional)	General (Optional)	General (Optional)	Standard	Standard	Standard	Standard
Power	100V ~ 240V AC	100V ~ 240V AC	100V ~ 240V AC	100V ~ 240V AC	100V ~ 240V AC	100V ~ 240V AC	100V ~ 240V AC	100V ~ 240V AC	100V ~ 240V AC
Additional Features	Temperature Sensor, 24/7 (50,000 hour), Full HD 4 Picture by Picture Support	Wi-Fi module Embedded	Remote Controller	Remote Controller	Wi-Fi module Embedded	-	-	-	-

Controller / PoE Extender



SPC-7000



SPC-2000



SPC-2010









SPC-1010



SPO-100

Features	Network/Analog Cameras / NVR / DVR / SSM Controller <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 	Network Controller <ul style="list-style-type: none"> Superior System Compatibility 3D Joystick Control Quick and Easy Installation SSM Support 	PTZ / DVR System Controller <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 	PTZ Control Keyboard <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 	PoE Extender <ul style="list-style-type: none"> Simultaneous Transmission of Power and IP Data with the cat 5 Cable Supporting TCP Speed of 100Mbps Full Duplex The Maximum Transmission Distance for Ethernet Data Can be Extended More than 100m Depending on the Camera and Power Source A Camera with up to 11.7W Power Consumption Can be Connected as Power is Supplied Through the PoE Hub Built-in Surge Protection Curcuit for Safety
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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")	5.88	F1.6	64.0° ~ 6.9°	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 (0.3" ~ 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				82.1g (0.18 lb)	
	SLA-2812DN			1/3"	520K pixel	2.8 ~ 12mm (0.11" ~ 0.47")	20.2 ~ 8.1mm (0.8" ~ 0.32")	4.2	1.3	133.0° ~ 29.7°	DC			37.5 x 48.0 x 56.0mm (1.48" x 1.89" x 2.2")	71g (0.16 lb)
	SLA-550DV					5 ~ 50mm (0.2" ~ 1.97")	10.5 ~ 10.6mm (0.41" ~ 0.42")	10	1.3	64.0° ~ 6.9°				45.0 x 56.2 x 57.8mm (1.77" x 2.21" x 2.28")	100g (0.22 lb)
	DV2.2X4.1SR 4A-SA2L				6 Megapixel	4.1 - 9mm 0.16" ~ 0.35"		2.2	1.6	44.21°~24.59°				62.9 x 67.5 x 54.3 mm 2.48" x 2.66" x 2.14"	135g 0.23 lb

PERIPHERALS



SHP-1680F



SHP-3701H



SHP-3701F



SHD-3000F1



SHD-3000F2



SHD-3000F3

<p>In-Ceiling Housing for PTZ & Dome</p> <ul style="list-style-type: none"> For indoor applications Polycarbonate Can be used with XNP-6120H XNV-6120/6120R/6085 XND-6085/6085V 	<p>Outdoor Housing for PTZ Dome</p> <ul style="list-style-type: none"> For outdoor applications Weatherproof rated to IP66 Aluminium + Polycarbonate IK10 vandal resistant Can be used with SNP-3300A/3301/3302/3350/3370/3371/3750/5200/5300/5320/5321/5430/6200/6201/6320/6321/L5233/L6233 SCP-2250/2251/2270/2271/2273/2330/2370/2371/2373/2430/3250/3370/3371/3430 	<p>In-Ceiling Housing for Dome</p> <ul style="list-style-type: none"> For indoor applications Polycarbonate Can be used with SNP-3300A/3301/3302/3350/3370/3371/3750/5200/5300/5320/5321/5430/6200/6201/6320/6321/L5233/L6233 SCP-2250/2251/2270/2271/2273/2330/2370/2371/2373/2430/3250/3370/3371/3430 	<p>In-Ceiling Housing for PTZ Dome</p> <ul style="list-style-type: none"> For indoor applications Polycarbonate Can be used with PNV-9080R XNV-6080/6080R/8080R SND-5083/5084/5084R/6083/6084/6084R/7084/7084R SNV-5084/5084R/6084/6084R/6085R/7084/7084R/8080/8081R SCD-6081R SCV-6081R 	<p>In Ceiling Housing for Dome</p> <ul style="list-style-type: none"> For indoor applications Polycarbonate Can be used with QND-6070R/7080R SND-6011R/L5083R/L6083R SCD-5080/5082/5083/5083R/6021/6083R SUD-5082 HCD-7070R/6080R/6070R 	<p>In Ceiling Housing for Dome</p> <ul style="list-style-type: none"> For indoor applications Polycarbonate Can be used with QNV-6070R/7080R SNV-L5083R/L6083R SCV-5082/5082R/5083/5083R/5085/6023R/6083R HCV-7070R/7010R/7020R/7030R/6080R/6070R
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SHD-3000F4



SHF-1500F



SBP-300HM1



SBP-301HM2



SBP-301HM3



SBP-301HM4/300HM5

<p>In Ceiling Housing for Dome</p> <ul style="list-style-type: none"> For indoor applications Polycarbonate Can be used with PND-9080R XND-6080/6080R/6080RV/6080V/8080R/8080RV 	<p>In-Ceiling Housing for Dome</p> <ul style="list-style-type: none"> For indoor applications Polycarbonate Can be used with PNF-9010R XNF-8010R 	<p>Hanging Mount</p> <ul style="list-style-type: none"> Aluminum Can be used with SNP-3300A/3301/3302/3350/3370/3371/3750/5200/6200/3120 SCP-2250/2251/2430/3250/3430/2120/3120/2270/2330/2370/3370 SBP-300CM/300LM/300WM/300WM1 	<p>Hanging Mount</p> <ul style="list-style-type: none"> Aluminum Can be used with QNV-6070R/7080R SNV-1080/1080R/L5083R/L6083R SND-5083/5084/5084R/6083/6084/6084R/7084/7084R SCV-2081/2081R/208 2R/3081/3082/3083/5082/5082R/5083/5083R/5085/6023R/6083R SCD-6081R HCV-7070R/6080R/6070R SBP-300CM/300LM/300WM/300WM1 	<p>Hanging Mount</p> <ul style="list-style-type: none"> Aluminum Can be used with SNV-3080/3082/3120/5080/5080R/7080/7080R/7082 SNP-5300/5320/5321/5430/6201/6320/6321/L5233/L6233 SCV-2060/2080/3080/3120 SCP-2271/2273/2371/2373/3371 SBP-300CM/300LM/300WM/300WM1 	<p>Hanging Mount for 3M / 5M Fisheye Cameras</p> <ul style="list-style-type: none"> Aluminum Can be used with SNF-7010/7010V/7010VM SBP-300CM/300LM/300WM/300WM1 (SBP-301HM4) Can be used with SNF-8010/8010VM SBP-300CM/300LM/300WM/300WM1 (SBP-301HM5)
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SBP-300HM6



SBP-300HM7



SBP-300HM8



SBP-122HM



SBP-168HM



SBP-201HM/317HM

<p>Hanging Mount</p> <ul style="list-style-type: none"> Aluminum Can be used with PNV-9080R XNV-6080/6080R/6120/6120R/8080R SNV-5084/5084R/6084/6084R/6085R/7084/7084R/8080/8081R SCV-6081R SBP-300CM/300LM/300WM/300WM1 	<p>Hanging Mount</p> <ul style="list-style-type: none"> Aluminum Can be used with XND-6010/6020/8020R/8030R/8040R QND-6010R/6020R/6030R/7010R/7020R/7030R SND-L5013/L6012/L6013/L6013R/L6014R SNV-6013 SCD-6023R HCD-7010R/7020R/7030R SBP-300CM/300LM/300WM/300WM1 	<p>Hanging Mount</p> <ul style="list-style-type: none"> Aluminum Can be used with PND-9080R XND-6080/6080R/6080RV/6080V/6085/6085V/8080R/8080RV SND-6084R/6084/6083/5084R/5084/5083 SCD-6081R SBP-300CM/300LM/300WM/300WM1 	<p>Hanging Mount</p> <ul style="list-style-type: none"> Aluminum Can be used with XNV-6010/6020/8020R/8030R/8040R QNV-6010R/6020R/6030R/7010R/7020R/7030R QND-6070R/7080R SCD-5080/5082/5083/5083R/6021/6083R SND-6011R/L5083R/L6083R SUD-5082 HCD-7070R/6080R/6070R HCV-7010R/7020R/7030R SBP-300CM/300LM/300WM/300WM1 	<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 (SBP-201HM) Can be used with PNM-9080V/9081VQ (SBP-317HM)
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PERIPHERALS

						
SBP-300HF/301HF/302HF	SBP-300TM/300TM1	SBP-160TM	SBP-300CM	SBP-300WM1/300WM	SBP-300LM	SBP-SCP/SN
<div>Built-in SFP Install Base for PTZ Cameras</div> <div><ul style="list-style-type: none">AluminumLC SFP port type100Mbps Ethernet speed (Default speed : 1000Mbps)IEEE 802.3u, IEEE 802.3z SupportAudio input/output, 3.5mm type24V AC, IP66, IK10, -50°C to +55°CCan use with SNP-6320H/5430H (SBP-300HF)Can use with SNP-6321H/5321H/L6233H/L5233H (SBP-301HF)Can use with PNP-9200RH/XNP-6370RH (SBP-302HF)</div>	<div>Tilt Mount for 3M/5M Fisheye Cameras</div> <div><ul style="list-style-type: none">Poly CarbonateCan be used with SNF-7010VM/7010V/7010 (SBP-300TM)Can be used with SNF-8010/8010VM (SBP-300TM1)</div>	<div>Tilt Mount</div> <div><ul style="list-style-type: none">AluminumCan be used with PNV-9080R XNV-6080/6080R/8080R SNV-5084/5084R/6084/6084R/6085R/7084/7084R/8080/8081R SCV-6081R</div>	<div>Ceiling Mount</div> <div><ul style="list-style-type: none">Aluminum + SECCCan be used with hanging mount and outdoor PTZ</div>	<div>Wall Mount</div> <div><ul style="list-style-type: none">Aluminum + SECCCan be used with SBP-300NB/300B/300PM/300KM</div>	<div>Parapet Mount</div> <div><ul style="list-style-type: none">Aluminum + SECCCan be used with hanging mount and outdoor PTZ</div>	<div>Swan Neck Bracket</div> <div><ul style="list-style-type: none">Swan Neck BracketIvory</div>
						
SBP-137WM	SBP-300WM0/120WM	SBP-300PM/302PM	SBP-300KM	SBP-300PMS	SBP-300KMS	
<div>Smoked Dome Cover</div> <div><div>Wall Mount</div><div><ul style="list-style-type: none">Alluminum and Poly CarbonateCan be used with QNV-6010R/6020R/6030R/6070R/7010R/7020R/7030R/7080R XNV-6010/602/8020R/8030R/8040R HCV-6070R/6080R/7010R/7020R/7030R/7070R/SCV-5082/5082R/5083/5083R/5085/6023R/6083R SNV-L5083R/L6083R</div></div>	<div>Wall Mount</div> <div><ul style="list-style-type: none">Poly Carbonate<ul style="list-style-type: none">Can be used with SCD-2060E/2080/2080R/2081/2082/3080/3081/3082/3083/2020/2022/2022R/5020/5030 SND-5061/7061/5011 SUD-5020 (SBP-300WM0)Plastic<ul style="list-style-type: none">Can be used with QND-7080R/7030R/7020R/7010R/6070R/6030R/6020R/6010R, XND-6010/6020 SND-L6083R/L6014R/L6013R/L6013/L6012/L5083R/L5013 SCD-6083R/6023R/6021/5083R/5083/5082/5080 (SBP-120WM)</div>	<div>Pole Mount</div> <div><ul style="list-style-type: none">SECC<ul style="list-style-type: none">Can be used with SBP-300B/300WM1/300WM/300LM (SBP-300PM)Can be used with PNO-9080R/SNO-8081R/SBO-100B1 QNO-7080R/6070R/7010R/7020R/7030R/6010R/6020R/6030R (SBP-302PM)</div>	<div>Corner Mount Base</div> <div><ul style="list-style-type: none">SECC<ul style="list-style-type: none">Can be used with SBP-300B/300WM1/300WM/300LM</div>	<div>Pole Mount</div> <div><ul style="list-style-type: none">Stainless Steel 316<ul style="list-style-type: none">Can be used with SBP-300B/300WM1/300WM/300LM</div>	<div>Corner Mount Base</div> <div><ul style="list-style-type: none">Stainless Steel 316<ul style="list-style-type: none">Can be used with SBP-300B/300WM1/300WM/300LM</div>	
						
SBP-300B	SBP-300NB	SBV-160WC	SBV-120WC	SBV-136B/158G	SBF-100B1/SBO-100B1	
<div>Wall Mount Base</div> <div><ul style="list-style-type: none">Aluminum + SECCCan be used with SBP-300PM/300KM</div>	<div>Installation Box</div> <div><ul style="list-style-type: none">SteelCan be used with SBP-300WM/300WM1/300KM/300PM</div>	<div>Weather Cap</div> <div><ul style="list-style-type: none">Alluminum and Poly CarbonateCan be used with PNV-9080R XNV-6080/6080R/8080R SCV-6081R/5084/5084R SNV-6084/6084R/6085R/7084/7084R/8080/8081R</div>	<div>Weather Cap</div> <div><ul style="list-style-type: none">Alluminum and Poly CarbonateCan be used with XNV-6010/6020/8020R/8030R/8040R QNV-6010R/6020R/6030R/7010R/7020R/7030R</div>	<div>Back Box</div> <div><ul style="list-style-type: none">AluminumCan be used with SCV-5082/5082R/5083/5083R/5085/6023R/6083R SNV-L5083R/L6083R QNV-6070R/7080R (SBV-136B)Can be used with PNV-9080R SNV-5084/5084R/6084/6084R/6085R/7084/7084R/8080/8081R SCV-6081R (SBV-158G)</div>	<div>Back Box</div> <div><ul style="list-style-type: none">AluminumCan be used with PNF-9010R/9010RV/9010RVM SNF-8010/8010VM (SBF-100B1)Can be used with QNO-7080R/6070R/7010R/7020R/7030R/6010R/6020R/6030R SNO-L6083R/L5083R SCO-6083R (SBO-100B1) HCO-7070R/7010R/7020R/7030R/6080R/6070R</div>	

PERIPHERALS



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

fixed Housing

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



SHB-4200/4200H

fixed Housing

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



STH-200

fixed Housing

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



STB-400

fixed Mount

- Bracket for STH-500/200
- Alluminum and Steel material



STB-4150V

fixed Mount

- Bracket for box cameras
- Alluminum and Steel material



SPB-IND5

Smoked Dome Cover

- Poly Carbonate + Poly Carbonate
- Can be used with SCD-6081R
- SND-5083/5084/6083/6084/6084R/7084



SPB-IND6

Smoked Dome Cover

- Poly Carbonate + Poly Carbonate
- Can be used with SCD-5080/5082/5083/5083R/6021/6083R
- SND-6011R
- SUD-5082



SPB-IND11

Smoked Dome Cover

- Poly Carbonate + Poly Carbonate
- Can be used with XND-6010/6020/8020R/8030R/8040R



SPB-IND12

Smoked Dome Cover

- Poly Carbonate + Poly Carbonate
- Can be used with QND-6010R/6020R/6030R/7010R/7020R/7030R



SPB-IND72

Smoked Dome Cover

- Poly Carbonate + Poly Carbonate
- Can be used with QND-6070R/7080R



SPB-IND81

Smoked Dome Cover

- Poly Carbonate + Poly Carbonate
- Can be used with XND-6080/6080R/8080R



SPB-IND81V

Smoked Dome Cover

- Aluminium + Poly Carbonate
- Can be used with XND-6080V/6080RV/8080RV



SPB-VAN3

Smoked Dome Cover

- Aluminium + Poly Carbonate
- Can be used with PNV-9080R
- SCV-6081R
- SNV-5084/5084R/6084/6084R/6085R/7084/7084R/8080/8081R
- XNV-8080R/6080/6080R



SPB-VAN4

Smoked Dome Cover

- Aluminium + Poly Carbonate
- Can be used with SCV-5082/5082R/5083/5083R/5085/6023R/6083R
- SNV-L5083R/L6083R



SPB-VAN11

Smoked Dome Cover

- Aluminium + Poly Carbonate
- Can be used with XNV-6010/6020/8020R/8030R/8040R



SPB-VAN12

Smoked Dome Cover

- Aluminium + Poly Carbonate
- Can be used with QNV-6010R/6020R/6030R/7010R/7020R/7030R








SPB-VAN72

Smoked Dome Cover

- Aluminium + Poly Carbonate
- Can be used with QNV-6070R/7080R

PERIPHERALS







PTZ Cameras

Type	Outdoor PTZ						Indoor PTZ				
Shape											
Color	Ivory										
Model	SCP-2270H/2330H/ 2370H/2370TH/ 3370H/3370TH/ SNP-3301H/3302H/ 3370TH/3371H/ 3371TH/ 5200H/5200TH/ 6200H/6200TH	SCP-2250H/2251H/ 2430H/3250H/ 3430H	SCP-3120VH SNP-3120VH	SCP-2271H/2273H/ 2371H/2373H/ 3371H SNP-5300H/5320H/ 5321H/5430H/ 6201H/6320H/ 6321H/L5233H/ L6233H HCP-6230H/6320HA	SCP-2370RH SNP-6200RH/6230RH/ L6233RH/6320RH	XNP-6370RH PNP-9200RH	SCP-2270/2330/ 2370/3370 SNP-3300A/3301/ 3302/3350/ 3370/3371/ 3750/5200/ 6200	SCP-2250/2251/2430/ 3250/3430	SCP-3120/2120 SNP-3120	SCP-2271/2273/ 2371/2373/ 3371 SNP-5300/5320/ 5321/5430/ 6201/6320/ 6321/L5233/ L6233 HCP-6230/6320A	XNP-6120

Dome Cameras

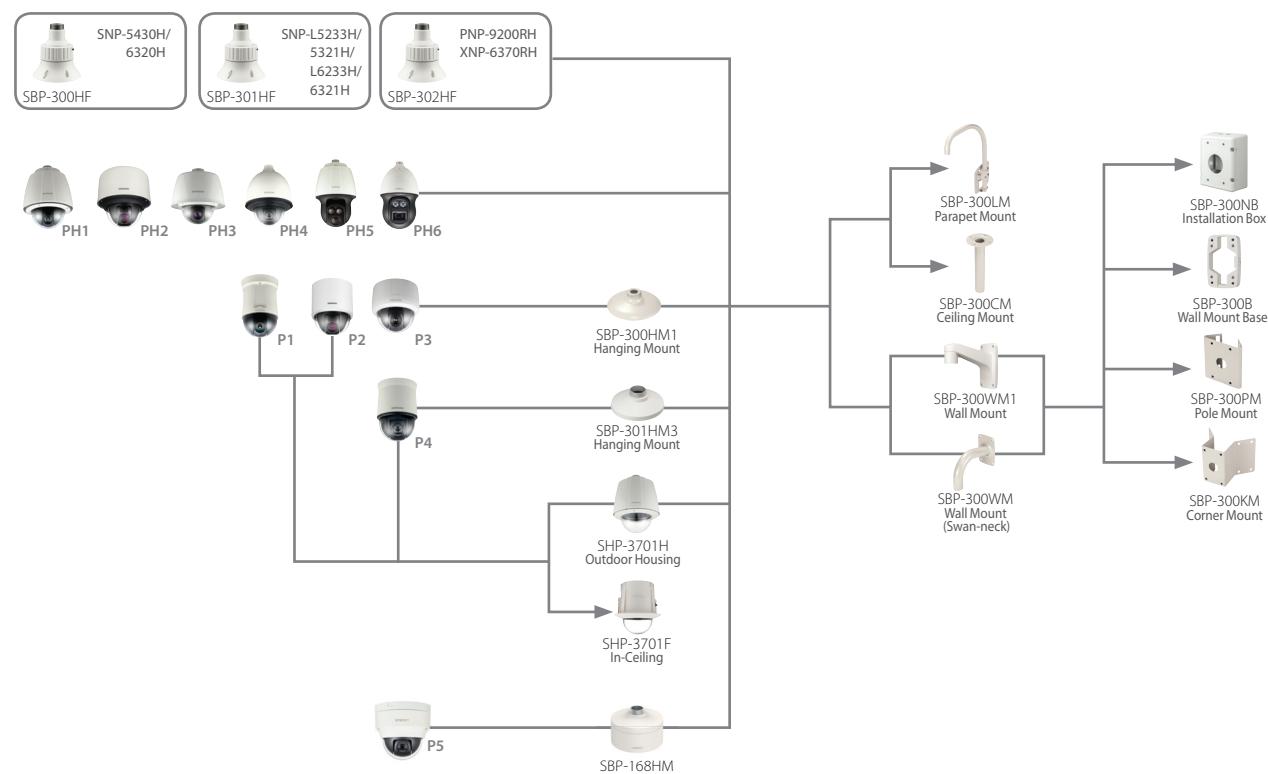
Type	Vandal-Resistant						Indoor Dome					
Shape												
Color	Ivory											
Model	SCV-2060/2080/ 3080/3120 SNV-3080/3082/ 3120/5080/ 5080R/7080/ 7080R/7082	SCV-2081/2081R/ 2082R/3081/ 3082/3083 SNV-1080/1080R	PNV-9080R XNV-6080/6080R/ 8080R SCV-6081R SNV-5084/5084R/ 6084/6084R/ 6085R/7084/ 7084R/8080/ 8081R	SNV-6013 XNV-6011	QNV-6070R/7080R SCV-5082/5082R/ 5083/5083R/ 5085/6023R/ 6083R SNV-L5083R/L6083R HCV-6080R/6070R/ 7070R	QNV-6010R/6020R/ 6030R/7010R/ 7020R/7030R XNV-6010/6020/ 8020R/8030R/ 8040R HCV-7010R/7020R/ 7030R	SCD-2060E/2080/ 2080R/2081/ 2082/3080/ 3081/3082/ 3083 SND-1080/5061/ 7061	SCD-2020/2020R/ 2021/2022/ 2022R/2040/ 2042R/5010/ 5020/5030 SND-1011/5011/ 7011 SUD-2020/2022/ 5020	SCD-6081R SND-5083/5084/ 5084R/6083/ 6084/6084R/ 7084/7084R	QND-6070R/7080R SND-L5083R/6011R/ L6083R SCD-5080/5081R/ 5082/6021/ 6083R SUD-5082 HCD-6070R/6080R/ 7070R	QND-6010R/6020R/6030R/ 7010R/7020R/7030R/ SCD-6023R SND-L5013/L6012/ L6013/L6013R/ L6014R/ XND-6010/6020R/ 8020R/8030R/8040R HCD-7010R/7020R/7030R	XND-9080R XND-6080/6080R/ 6080RV/6080V/ 8080R/8080RV

Fisheye / Panoramic Cameras

Type	Fisheye				Multi Imager	
Shape						
Color	Ivory					
Model	SNF-7010	SNF-8010	SNF-7010V/ 7010VM	PNF-9010R/ 9010RV/ 9010RVM SNF-8010VM	PNM-9020V HCM-9020VQ	PNM-9081VQ/ 9080VQ

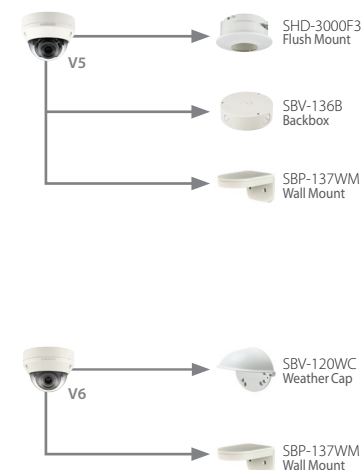
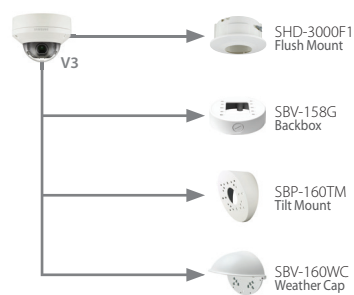
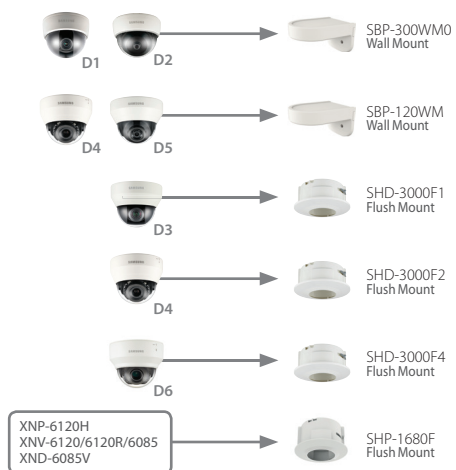
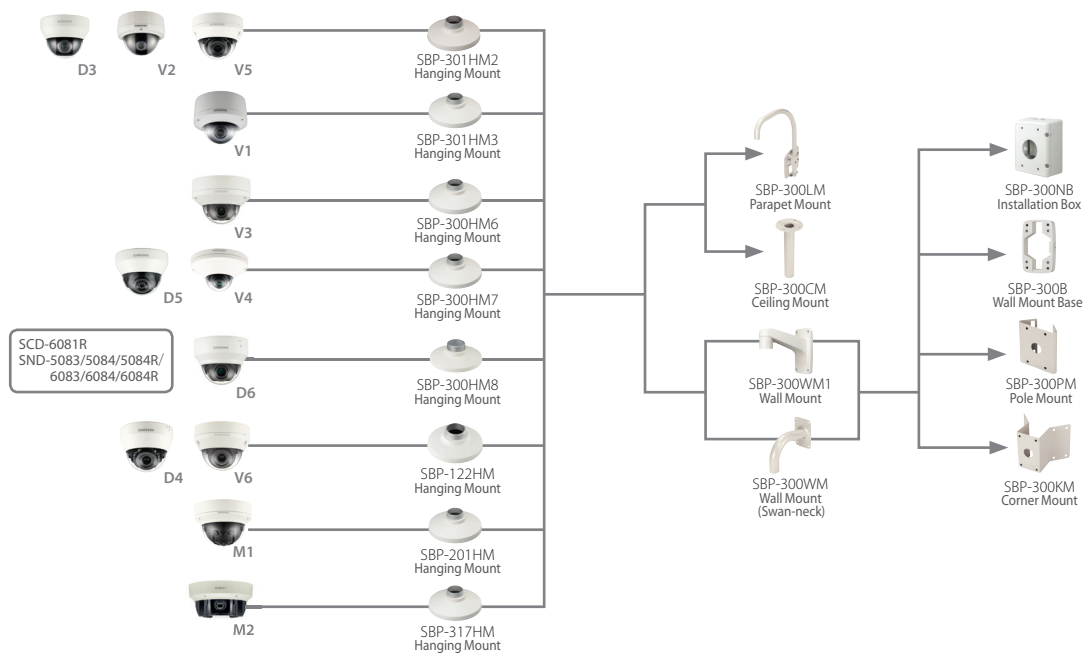
ACCESSORIES CONFIGURATION

PTZ ACC



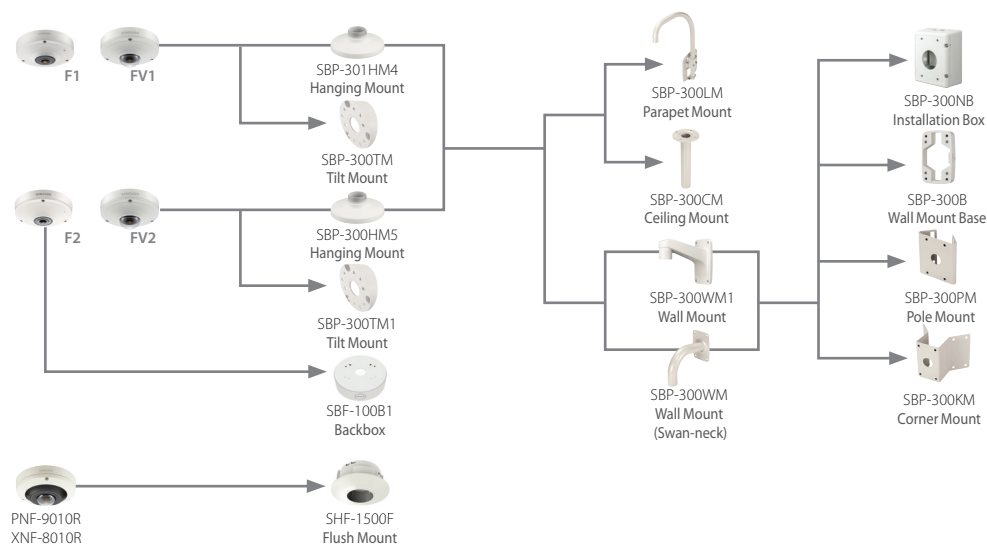
ACCESSORIES CONFIGURATION

DOME ACC

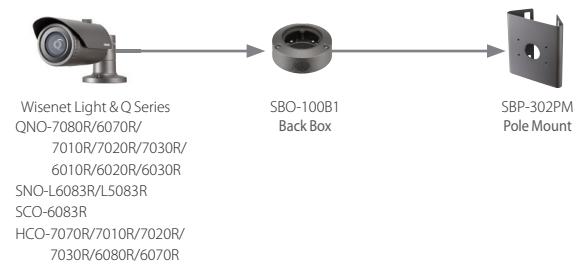


ACCESSORIES CONFIGURATION

FISHEYE ACC

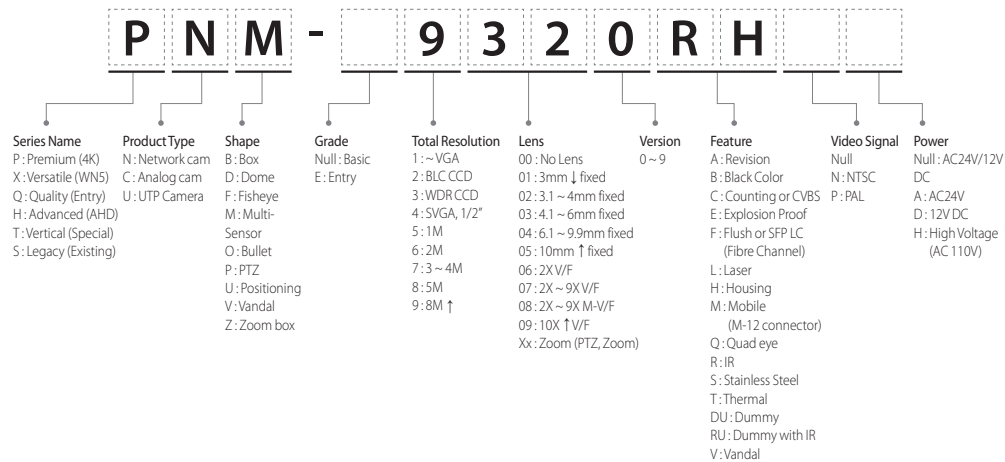


BULLET ACC

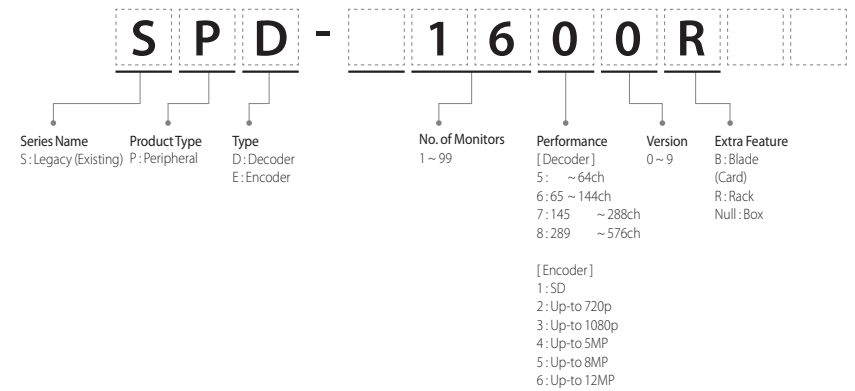


PRODUCT NAMING RULE

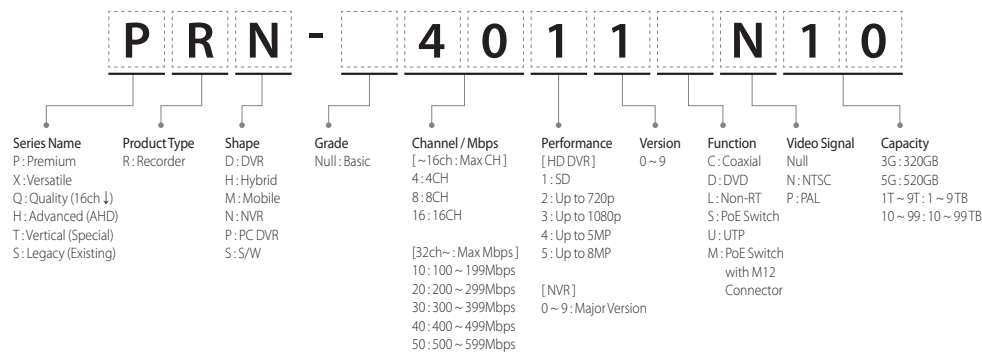
Camera



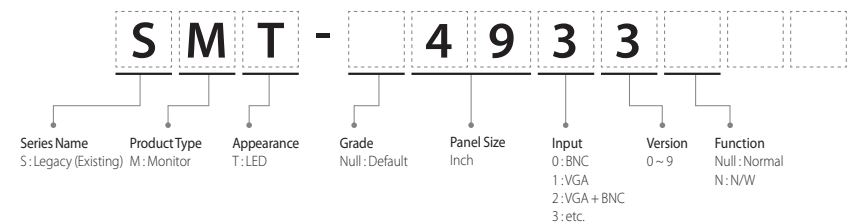
Decoder/Encoder

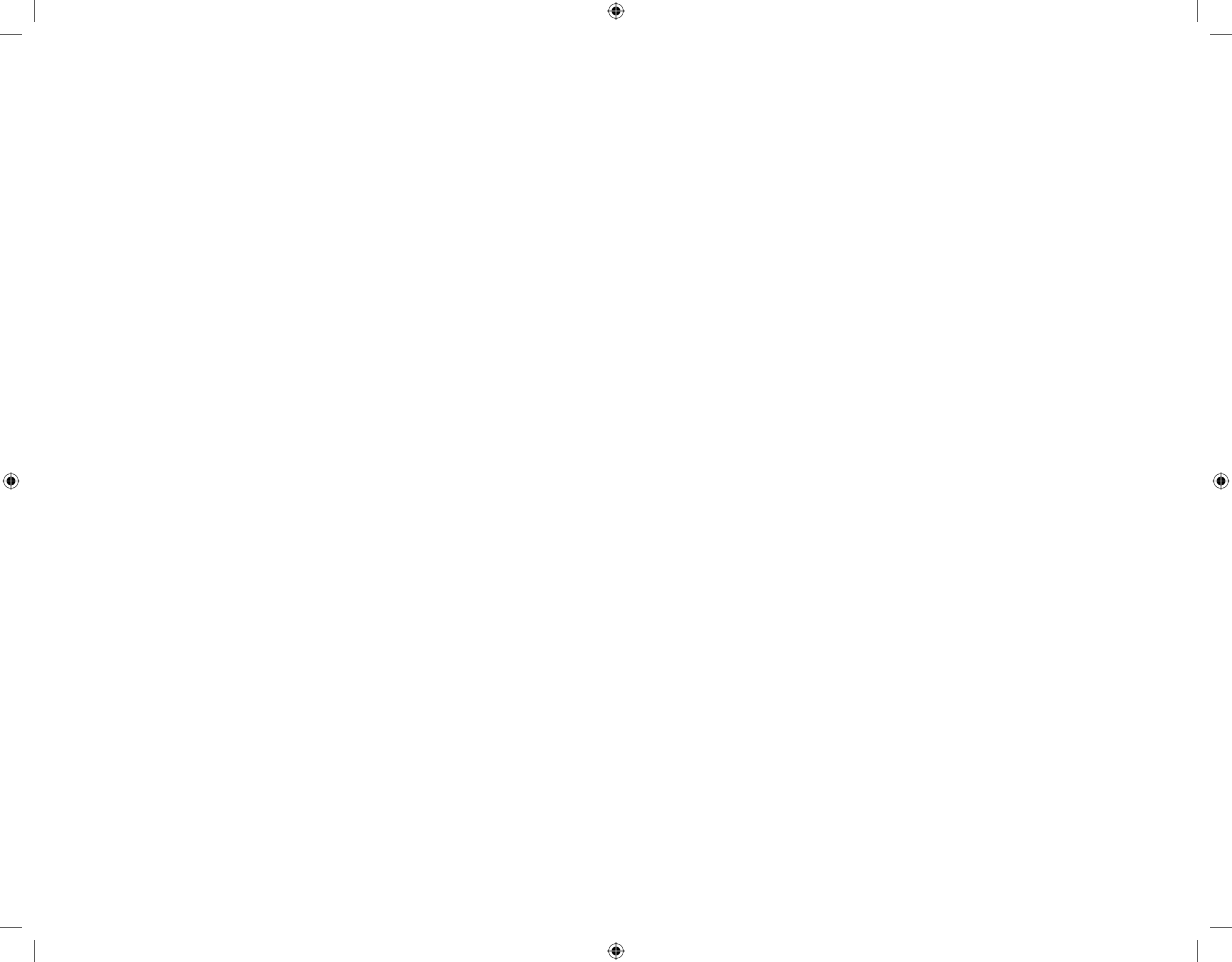


Recorder



Monitor





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