



Product line-up

2nd Quarter 2017

WISeNET X series

Defining the new standard of excellence



Powerful chipset Wisenet 5

Wisenet X series is supercharged by the most powerful chipset ever incorporated into a full camera range. The Wisenet 5 chip uses an all-new architecture that enables faster processing. That means you get the best video performance just as you need it.





**WISENET X
XNB-8000**



**WISENET X
XNB-6000**



**WISENET X
XNO-8080R**



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



**WISENET X
XNO-6120R**



**WISENET X
XNO-6080R**



**WISENET X
XNO-6010R/6020R**

	5MP	2MP	5MP	5MP	2MP	2MP	2MP
Resolution	5MP	2MP	5MP	5MP	2MP	2MP	2MP
Imaging Device	1/1.8" 6M CMOS	1/2.8" 2M 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
Resolution / Max. Frame Rate	5M / 30fps	2M / 60fps	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)
Max. User Access	20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)
Min. Illumination	Color : 0.07Lux B/W : 0.007Lux	Color : 0.01Lux B/W : 0.001Lux	Color : 0.07Lux B/W : 0Lux (IR LED on)	Color : 0.2Lux B/W : 0Lux (IR LED on)	Color : 0.05 Lux B/W : 0 Lux (IR LED On)	Color : 0.015Lux B/W : 0Lux (IR LED on)	Color : 0.055Lux (XNO-6010R), 0.01Lux (XNO-6020R) B/W : 0Lux (IR LED on)
Video Output	CVBS 1.0Vpp, Micro USB type B	CVBS 1.0Vpp, Micro USB type B	CVBS 1.0Vpp, Micro USB type B	CVBS 1.0Vpp, Micro USB type B	CVBS 1.0Vpp, Micro USB type B	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)	5.18 ~ 62.47mm (Optical 12X)	2.8 ~ 12mm (4.3x) Motorized V/F (F1.4)	2.4mm Fixed (F2.0) (XNO-6010R) 4mm Fixed (F1.2) (XNO-6020R)
Angular Field of View	-	-	H : 100.2° ~ 38.7° / V : 72.7° ~ 29.0° / D : 132.0° ~ 48.6°	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 : 54.65° (Wide) ~ 5.31° (Tele) V : 32.23° (Wide) ~ 3.01° (Tele) D : 61.47° (Wide) ~ 6.08° (Tele)	H : 119.5° ~ 27.9° / V : 62.8° ~ 15.7° / D : 142.1° ~ 32.0°	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 / Manual	Simple Focus / Manual	Simple Focus (Motorized V/F) / Manual	-	Simple Focus (Motorized V/F) / Manual	Simple Focus (Motorized V/F) / Manual	-
IR Viewable Length	-	-	50m (164.04ft)	30m (98.43ft)	70m (229.66ft)	50m (164.04ft)	15m (49.21ft) (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 (150dB)	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)
Digital Image Stabilization	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, 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, Heatmap, People counting, Queue Management
Protocol	ONVIF Profile S & G, SUNAPI	ONVIF Profile S & G, SUNAPI	ONVIF Profile S & G, SUNAPI	ONVIF Profile S & G, SUNAPI	ONVIF Profile S & G, SUNAPI	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
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
Operating Temperature	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-40°C ~ +55°C (-40°F ~ +131°F) * Start up Above -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) Less than 90% RH * 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	AC 24V (Max. 8.5W) DC 12V (Max. 7.5W) PoE (Max. 8.5W)	AC 24V (Max. 8W) DC 12V (Max. 6.5W) PoE (Max. 7.5W)	AC 24V (Max. 14.5W) DC 12V (Max. 12.5W) PoE (Max. 8.5W)	DC 12V (Max. 8.8W) PoE (Max. 9.8W)	TBD	AC 24V (Max. 15W) DC 12V (Max. 12W) PoE (Max. 12.95W)	DC 12V (Max. 7.8W) PoE (Max. 8.8W)
Dimensions (WxHxD) / Weight	73.1 x 66.6 x 147.8mm (2.88" x 2.62" x 5.82") 420g (0.93lb)	73.1 x 66.6 x 147.8mm (2.88" x 2.62" x 5.82") 420g (0.93lb)	Ø91.0 x 368.6mm (Ø3.58" x 14.51") (Without Sunshield) 2.18Kg (4.81lb)	Ø120.0 x 296.0mm (Ø4.72" x 11.65") (Without Sunshield) 1.3Kg (2.87lb)	Ø147.5mm x 368.6mm (Ø5.81" x 14.51") 2.18Kg (4.81lb)	Ø91.0 x 368.6mm (Ø3.58" x 14.51") (Without Sunshield) 2.18Kg (4.81lb)	Ø70.0 x 296.0mm (Ø2.76" x 11.65") (Without Sunshield) 1.3Kg (2.87lb)
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	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, 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



WISENET X
NXD-8080R



WISENET X
NXD-8080RV



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



WISENET X
NXD-6080



WISENET X
NXD-6080R



WISENET X
NXD-6080V



WISENET X
NXD-6080RV

	5MP	5MP	5MP	2MP	2MP	2MP	2MP	
Resolution	5MP	5MP	5MP	2MP	2MP	2MP	2MP	
Imaging Device	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	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	5M / 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)	
Max. User Access	20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)	20 (Unicast)	
VIDEO	Min. Illumination	Color : 0.07Lux B/W : 0Lux (IR LED on)	Color : 0.07Lux B/W : 0Lux (IR LED on)	Color : 0.2Lux B/W : 0Lux (IR LED on)	Color : 0.015Lux B/W : 0.0015Lux	Color : 0.015Lux B/W : 0Lux (IR LED on)	Color : 0.015Lux B/W : 0.0015Lux	
	Video Output	CVBS 1.0Vpp, Micro USB type B	CVBS 1.0Vpp, Micro USB type B	CVBS 1.0Vpp, Micro USB type B	CVBS 1.0Vpp, Micro USB type B	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)	3.9 ~ 9.4mm (2.4x) Motorized V/F (F1.3)	3.7mm Fixed (F1.6) (XND-8020R) 4.6mm Fixed (F1.6) (XND-8030R) 7mm Fixed (F1.6) (XND-8040R)	2.8 ~ 12mm (4.3x) Motorized V/F (F1.4)	2.8 ~ 12mm (4.3x) Motorized V/F (F1.4)	2.8 ~ 12mm (4.3x) Motorized V/F (F1.4)	2.8 ~ 12mm (4.3x) Motorized V/F (F1.4)
	Angular Field of View	H : 92.1° ~ 38.7° / V : 67.2° ~ 29.0° / D : 119.9° ~ 48.6°	H : 92.1° ~ 38.7° / V : 67.2° ~ 29.0° / D : 119.9° ~ 48.6°	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 : 119.5° ~ 27.9° / V : 62.8° ~ 15.7° / D : 142.1° ~ 32.0°	H : 119.5° ~ 27.9° / V : 62.8° ~ 15.7° / D : 142.1° ~ 32.0°	H : 119.5° ~ 27.9° / V : 62.8° ~ 15.7° / D : 142.1° ~ 32.0°	H : 119.5° ~ 27.9° / V : 62.8° ~ 15.7° / D : 142.1° ~ 32.0°
	Focus Control	Simple Focus (Motorized V/F) / Manual	Simple Focus (Motorized V/F) / Manual	-	Simple Focus (Motorized V/F) / Manual	Simple Focus (Motorized V/F) / Manual	Simple Focus (Motorized V/F) / Manual	Simple Focus (Motorized V/F) / Manual
OPERATIONAL	IR Viewable Length	30m (98.43ft)	30m (98.43ft)	30m (98.43ft)	-	30m (98.43ft)	-	
	Pan / Tilt / Rotate	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	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)
	Backlight Compensation	WDR (120dB)	WDR (120dB)	WDR (120dB)	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)
	Digital Image Stabilization	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, 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
	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	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	
Environment Protection	IK08	IK08	IK08	IK08	IK08	IK08	IK08	
Operating Temperature	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	
Power	DC 12V (Max. 9W) PoE (Max. 10W)	DC 12V (Max. 9W) PoE (Max. 10W)	DC 12V (Max. 8W) PoE (Max. 9W)	DC 12V (Max. 6W) PoE (Max. 6.5W)	DC 12V (Max. 9W) PoE (Max. 6.5W)	DC 12V (Max. 6W) PoE (Max. 6.5W)	DC 12V (Max. 9W) PoE (Max. 10W)	
Dimensions (WxHxD) / Weight	Ø140.8 x 113.0mm (Ø5.54" x 4.45") 628g (1.39lb)	Ø140.8 x 113.0mm (Ø5.54" x 4.45") 732g (1.61lb)	Ø110.0 x 90.0mm (Ø4.33" x 3.54") 365g (0.80lb)	Ø140.8 x 113.0mm (Ø5.54" x 4.45") 610g (1.34lb)	Ø140.8 x 113.0mm (Ø5.54" x 4.45") 624g (1.38lb)	Ø140.8 x 113.0mm (Ø5.54" x 4.45") 714g (1.57lb)	Ø140.8 x 113.0mm (Ø5.54" x 4.45") 724g (1.60lb)	
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	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	



WISENET X
XND-6010



WISENET X
XND-6020R

New



WISENET X
XNV-8080R



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

Preliminary



WISENET X
XNV-6120/6120R

New



WISENET X
XNV-6080R



WISENET X
XNV-6080



WISENET X
XNV-6011

Preliminary

New



WISENET X
XNV-6010

	2MP	2MP	5MP	5MP	2MP	2MP	2MP	2MP	2MP
Resolution	2MP	2MP	5MP	5MP	2MP	2MP	2MP	2MP	2MP
Imaging Device	1/2.8" 2M CMOS	1/2.8" 2M 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	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	H.265, H.264, MJPEG
Resolution / Max. Frame Rate	2M / 60fps	2M / 60fps	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 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)	20 (Unicast)
Min. Illumination	Color: 0.055Lux B/W: 0.0055Lux	Color: 0.015Lux B/W: 0Lux (IR LED on)	Color: 0.07Lux B/W: 0Lux (IR LED on)	Color: 0.2Lux B/W: 0Lux (IR LED on)	Color: 0.05Lux B/W: 0Lux (IR LED on) Color: 0.05Lux B/W: 0Lux (IR LED on (XNV-6120R))	Color: 0.015Lux B/W: 0Lux (IR LED on)	Color: 0.015Lux B/W: 0.0015Lux	Color: 0.045Lux B/W: 0.045Lux	Color: 0.055Lux B/W: 0.0055Lux
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	CVBS 1.0Vpp, Micro USB type B
Lens	2.4mm Fixed (F2.0)	4mm Fixed (F1.4)	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)	5.18 ~ 62.47mm (Optical 12x)	2.8 ~ 12mm (4.3x) Motorized V/F (F1.4)	2.8 ~ 12mm (4.3x) Motorized V/F (F1.4)	2.8mm Fixed (F1.8)	2.4mm Fixed (F2.0)
Angular Field of View	H: 139.0° / V: 73.0° / D: 167.0°	H: 88.6° / V: 47.5° / D: 104.8°	H: 92.1° ~ 38.7° / V: 67.2° ~ 29.0° / D: 119.9° ~ 48.6°	H: 91.5° / V: 71.9° / D: 126.2° (XNV-8020R) H: 77.9° / V: 57.9° / D: 98.7° (XNV-8030R) H: 50.7° / V: 37.8° / D: 63.8° (XNV-8040R)	H: 54.65° / V: 32.23° / D: 61.47° H: 5.31° / V: 3.01° / D: 6.08°	H: 119.5° ~ 27.9° / V: 62.8° ~ 15.7° / D: 142.1° ~ 32.0°	H: 119.5° ~ 27.9° / V: 62.8° ~ 15.7° / D: 142.1° ~ 32.0°	H: 112° / V: 62° / D: 130°	H: 139.0° / V: 73.0° / D: 167.0°
Focus Control	-	-	Simple Focus (Motorized V/F) / Manual	-	Auto / Manual / One Push	Simple Focus (Motorized V/F) / Manual	Simple Focus (Motorized V/F) / Manual	Manual	-
IR Viewable Length	-	30m (98.43ft)	50m (164.04ft)	30m (98.43ft)	70m (229.66ft) (XNV-6120R)	50m (164.04ft)	-	-	-
Pan / Tilt / Rotate	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 354° / 0° ~ 75° / 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°
Day & Night	True (ICR)	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 (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)	SSNRV (2D+3D Noise Filter)
Digital Image Stabilization	Support	Support	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, 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, 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, Heatmap, People counting, Queue Management	Tampering, Loitering, Defocus Detection, Fog Detection, Virtual Line, Enter / Exit, (Dis)Appear, Motion Detection, Digital Auto Tracking, Face Detection, 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
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	ONVIF Profile S & G, SUNAPI
Alarm I/O	1 / 1	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	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	SD/SDHC/SDXC, NAS, Local PC
Environment Protection	IK08	IK08	IP67, IP66, NEMA 4X, IK10	IP67, IP66, IK10	IP67, IP66, NEMA 4X, IK10	IP67, IP66, NEMA 4X, IK10	IP67, IP66, NEMA 4X, IK10	IP66, IK10, NEMA4X	IP67, IP66, NEMA 4X, IK10
Operating Temperature	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-40°C ~ +55°C (-40°F ~ +131°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up Above -20°C (-4°F)	-40°C ~ +55°C (-22°F ~ +131°F) * Start up Above -35°C (-31°F)	-40°C ~ +55°C (-40°F ~ +131°F)	-40°C ~ +55°C (-40°F ~ +131°F)	-30°C ~ +55°C (-22°F ~ +131°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up Above -20°C (-4°F)
Power	DC 12V (Max. 5.5W) PoE (Max. 6W)	DC 12V (Max. 8W) PoE (Max. 9W)	AC 24V (Max. 14W) DC 12V (Max. 11.5W) PoE (Max. 12.95W)	DC 12V (Max. 8W) PoE (Max. 9W)	TBD	AC 24V (Max. 14W) DC 12V (Max. 11.5W) PoE (Max. 12.95W)	AC 24V (Max. 8.2W) DC 12V (Max. 7W) PoE (Max. 7.8W)	PoE (Max. 6.5W)	DC 12V (Max. 5.5W) PoE (Max. 6W)
Dimensions (WxHxD) / Weight	Ø110.0 x 90.0mm (Ø4.33" x 3.54") 365g (0.80lb)	Ø110.0 x 90.0mm (Ø4.33" x 3.54") 380g (0.84lb)	Ø160.0 x 118.5mm (Ø6.3" x 4.67") 1.01Kg (2.23lb)	Ø120.0 x 97.5mm (Ø4.72" x 3.84") 625g (1.38lb)	Ø160.0 x 130.0mm (Ø6.3" x 5.12") 995g (2.19lb)	Ø160.0 x 118.5mm (Ø6.3" x 4.67") 995g (2.19lb)	Ø160.0 x 118.5mm (Ø6.3" x 4.67") 985g (2.17lb)	Ø112.8 x 63.7mm (Ø4.44" x 2.51") 420g (0.93lb)	Ø120.0 x 97.5mm (Ø4.72" x 3.84") 625g (1.38lb)
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	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	Handover, WiseStream II, Advanced Video Analytics, Sound Classification (Explosion, Gunshot, Glass Breakage, Scream etc.), Hallway View



WISENET X
XNV-6020R



WISENET X
XNP-6370RH



WISENET P
PNO-9080R



WISENET P
PND-9080R



WISENET P
PNV-9080R



WISENET P
PNM-9020V



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



WISENET P
PNP-9200RH

	2MP	2MP	12MP	12MP	12MP	7.3MP	12MP	8MP
Resolution	2MP	2MP	12MP	12MP	12MP	7.3MP	12MP	8MP
Imaging Device	1/2.8" 2M CMOS	1/1.9" 2.42M CMOS	1/1.7" 12.4M CMOS	1/1.7" 12.4M CMOS	1/1.7" 12.4M CMOS	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	H.265, H.264, MJPEG
Resolution / Max. Frame Rate	2M / 60fps	2M / 60fps	12M / 20fps, 8M / 30fps	12M / 20fps, 8M / 30fps	12M / 20fps, 8M / 30fps	7.3M / 30fps (H.265, H.264)	12M / 20fps, 9M / 25fps	8M / 30fps (H.265, H.264)
Streaming Capacity	Multiple (Up to 10 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)	Multiple (Up to 3 Profiles)
Max. User Access	20 (Unicast)	15 (Unicast)	15 (Unicast)	15 (Unicast)	15 (Unicast)	15 (Unicast)	15 (Unicast)	15 (Unicast)
Min. Illumination	Color: 0.015Lux B/W: 0Lux (IR LED on)	Color: 0.05Lux B/W: 0Lux (IR LED on)	Color: 0.3Lux B/W: 0Lux (IR LED on)	Color: 0.3Lux B/W: 0Lux (IR LED on)	Color: 0.3Lux B/W: 0Lux (IR LED on)	Color: 0.3Lux B/W: 0.03Lux	Color: 0.3Lux B/W: 0Lux (IR LED on)	Color: 0.1Lux B/W: 0Lux (IR LED on)
Video Output	CVBS 1.0Vpp, Micro USB type B	CVBS 1.0Vpp	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
Lens	4mm Fixed (F1.4)	6~22mm (IR Corrected Optical 37x) F1.5 (Wide) / F4.6 (Tele)	4.5~10mm (2.2x) Motorized V/F (F1.6)	4.5~10mm (2.2x) Motorized V/F (F1.6)	4.5~10mm (2.2x) Motorized V/F (F1.6)	3.6mm fixed	2.1mm Fixed (F2.2)	4.8~96mm (IR Corrected Optical 20x) F1.8 (Wide) / F3.6 (Tele)
Angular Field of View	H: 88.6° / V: 47.5° / D: 104.8°	H: 59.3° (Wide) ~ 1.9° (Tele) / V: 35.8° (Wide) ~ 1.1° (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)	[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)	[Total 4 Sensor] H: 180.0° / V: 4.0°	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	-	AF / One-shot AF / Manual	Simple Focus (Motorized V/F) / Manual	Simple Focus (Motorized V/F) / Manual	Simple Focus (Motorized V/F) / Manual	-	Simple Focus	AF / One-shot AF
IR Viewable Length	30m (98.43ft)	350m (1,148.29ft)	40m (131.23ft)	30m (98.43ft)	40m (131.23ft)	-	15m (49.21ft)	200m (656.17ft)
Pan / Tilt / Rotate	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	360° Endless / 190° (-5° ~ 185°) / -	-	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 355° / 0° ~ 73° / -	-	360° Endless / 190° (-5° ~ 185°) / -
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 (120dB)	WDR (120dB)	WDR (120dB)
Digital Noise Reduction	SSNRV (2D+3D Noise Filter)	SSNR (2D+3D Noise Filter)	SSNR	SSNR	SSNR	SSNR	SSNR	SSNR
Digital Image Stabilization	Support	-	-	-	-	-	-	Support
Intelligent Video Analytics	Tampering, Littering, 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, Crossing, Enter / Exit, (Dis) Appear, Audio Detection, Face Detection - with Metadata	Tampering (Scene change), Virtual Line, Enter / Exit, (Dis) Appear, Audio Detection, Defocus Detection, Digital Auto Tracking - with Metadata	Tampering (Scene change), Virtual Line, Enter / Exit, (Dis) Appear, Audio Detection, Defocus Detection, Digital Auto Tracking - with Metadata	Tampering (Scene change), Virtual Line, Enter / Exit, (Dis) Appear, Audio Detection, Defocus Detection, Digital Auto Tracking - with Metadata	Tampering (Scene change), Virtual Line, Enter / Exit, (Dis) Appear, Audio Detection, Defocus Detection, Digital Auto Tracking - with Metadata	Tampering, Virtual Line, Enter / Exit, (Dis) Appear, Audio Detection, Defocus Detection	Tampering, Virtual Line, Enter / Exit, (Dis) Appear, Audio Detection - with Metadata
Protocol	ONVIF Profile S & G, SUNAPI	ONVIF Profile S & G, SUNAPI	ONVIF Profile S & G, SUNAPI	ONVIF Profile S & G, SUNAPI	ONVIF Profile S & G, SUNAPI	ONVIF Profile S & G, SUNAPI	ONVIF Profile S & G, SUNAPI	ONVIF Profile S & G, SUNAPI
Alarm I/O	1 / 1	4 / 2 (Relay)	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	4 / 2 (Relay)
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	IP67, IP66, IK10	IP66, IK10	IP66, IK10	IK08	IP66, IP67, IK10	IP66, IK10	IK10 (PNF-9010R), IP66, IK10 (PNF-9010RV/9010RVM)	IP66, IK10
Operating Temperature	-30°C ~ +55°C (-22°F ~ +131°F) *Start up Above -20°C (-4°F)	-50°C ~ +55°C (-58°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)	-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)	-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	DC 12V (Max. 8W) PoE (Max. 9W)	AC 24V (Max. 60.0W/90.0W - Heater Off / On, IR on)	AC 24V (Max. 12.43W / 14.08W - Heater on) DC 12V (Max. 11.77W / 12.95W - Heater on) PoE (Max. 10.43W) / 11.55W - Heater on)	DC 12V (Max. 9.5W) PoE (Max. 10.5W)	AC 24V (Max. 12.43W / 14.08W - Heater on) DC 12V (Max. 11.77W / 12.95W - Heater on) PoE (Max. 10.43W) / 11.55W - Heater on)	Max 25.5W (PoE+DC, Heater on)	DC 12V (Max. 11W), PoE (Max. 12W) (PNF-9010R) DC 12V (Max. 12W), PoE (Max. 12.95W) (PNF-9010RV/RVM)	AC 24V (Max. 60.0W/90.0W - Heater Off / On, IR on)
Dimensions (WxHxD) / Weight	Ø120.0 x 97.5mm (Ø4.72" x 3.84") 615g (1.36lb)	Ø236.9 x 407.7mm (Ø9.33" x 16.05") 7.1Kg (15.65lb)	82.4 x 87.0 x 348.3mm (3.24" x 3.43" x 13.71") (Without Sunshield) 1.4Kg (3.09lb)	Ø140.8 x 113.0mm (Ø5.54" x 4.45") 610g (1.34lb)	Ø160.0 x 118.5mm (Ø6.3" x 4.67") 990g (2.18lb)	Ø199.0 x 143.5mm (Ø7.83" x 5.65") 2.03Kg (4.48lb)	Ø146.0mm x 63.4mm (Ø5.75" x 2.5") 805g (1.77lb) (PNF-9010R), 810g (1.79lb) (PNF-9010RV), 815g (1.8lb) (PNF-9010RVM)	Ø236.9 x 407.7mm (Ø9.33" x 16.05") 7.1Kg (15.65lb)
Additional Features	Handover, WiseStream II, Advanced Video Analytics, Sound Classification (Explosion, Gunshot, Glass Breakage, Scream etc), Hallway View	Handover, Defog, WiseStream, Auto tracking, Hallway View	Handover, Hallway View, P-Iris, Defog, WiseStream	Hand over, Hallway View, P-Iris, Defog, WiseStream	Handover, Hallway View, P-Iris, Defog, WiseStream	Handover, Lens Distortion Correction, Multi Sensor, WiseStream	M12 Connector (PNF-9010RVM), Built-in mic, On Board Dewarping, Handover, WiseStream, Heatmap, People Counting	Hand over, Defog, Auto tracking, WiseStream



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



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

	4MP	4MP	2MP	2MP	4MP	4MP	2MP	2MP
Resolution	4MP	4MP	2MP	2MP	4MP	4MP	2MP	2MP
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	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	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	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)	Multiple (Up to 3 Profiles)
Max. User Access	6 (Unicast)	6 (Unicast)	6 (Unicast)	6 (Unicast)	6 (Unicast)	6 (Unicast)	6 (Unicast)	6 (Unicast)
Min. Illumination	Color : 0.15Lux B/W : 0Lux (IR LED on)	Color : 0.5Lux (QNO-7010R), 0.4Lux (QNO-7020R), 0.3Lux (QNO-7030R) B/W : 0Lux (IR LED on)	Color : 0.095Lux B/W : 0Lux (IR LED on)	Color : 0.15Lux B/W : 0Lux (IR LED on)	Color : 0.15Lux B/W : 0Lux (IR LED on)	Color : 0.5Lux (QND-7010R), 0.4Lux (QND-7020R), 0.3Lux (QND-7030R) B/W : 0Lux (IR LED on)	Color : 0.095Lux B/W : 0Lux (IR LED on)	Color : 0.15Lux B/W : 0Lux (IR LED on)
VIDEO								
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)	2.8mm Fixed (F2.0) (QND-6010R) 3.6mm Fixed (F1.8) (QND-6020R) 6mm Fixed (F1.8) (QND-6030R)
Angular Field of View	H : 109.7° ~ 26.0° / V : 60.8° ~ 15.2° / D : 131.3° ~ 30.1°	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° ~ 32.4° / V : 53.7° ~ 18.4° / D : 121.9° ~ 37.1°	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° ~ 26.0° / V : 60.8° ~ 15.2° / D : 131.3° ~ 30.1°	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° ~ 32.4° / V : 53.7° ~ 18.4° / D : 121.9° ~ 37.1°	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)
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)	20m (65.62ft)
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)	True (ICR)	True (ICR)
Backlight Compensation	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)
Digital Noise Reduction	SSNR	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	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	ONVIF Profile S & G, SUNAPI
Alarm I/O	1 / 1	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	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	Micro SD/SDHC/SDXC, NAS
Environment Protection	IP66, IK10	IP66, IK10	IP66, IK10	IP66, IK10	-	IK08	-	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)	-10°C ~ +55°C (+14°F ~ +131°F)
Power	DC 12V (Max. 7.0W) PoE (Max. 8.0W)	DC 12V (Max. 6.0W) PoE (Max. 7.0W)	DC 12V (Max. 7.0W) PoE (Max. 8.0W)	DC 12V (Max. 6.0W) PoE (Max. 7.0W)	DC 12V (Max. 6.4W) PoE (Max. 7.2W)	DC 12V (Max. 5.8W) PoE (Max. 7.0W) (QND-7010R) DC 12V (Max. 5.43W) PoE (Max. 6.5W) (QND-7020R/7030R)	DC 12V (Max. 5.5W) PoE (Max. 6.7W)	DC 12V (Max. 5.8W) PoE (Max. 7.0W) (QND-6010R) DC 12V (Max. 5.43W) PoE (Max. 6.5W) (QND-6020R/6030R)
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)	Ø110.0 x 86.0mm (Ø4.33" x 3.39") 290g (0.64 lb)
Additional Features	Lens Distortion Correction, Hallway View, WiseStream	Lens Distortion Correction, Hallway View, WiseStream	Lens Distortion Correction, Hallway View, WiseStream	Lens Distortion Correction, Hallway View, WiseStream	Lens Distortion Correction, Hallway View, WiseStream	Lens Distortion Correction, Hallway View, WiseStream	Lens Distortion Correction, Hallway View, WiseStream	Lens Distortion Correction, Hallway View, WiseStream



WISENET Q
QNV-7080R



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



WISENET Q
QNV-6070R



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



WISENET T
TNO-6320E



WISENET T
TNU-6320E



WISENET T
TNO-1050T

Preliminary

	4MP	4MP	2MP	2MP	2MP	2MP	VGA
Resolution	4MP	4MP	2MP	2MP	2MP	2MP	VGA
Imaging Device	1/3" 4M CMOS	1/3" 4M 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	Uncooled FPA Microbolometer, Pixel size: 17µm, Spectral range: 8 ~ 14µm
Video Compression Format	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
Resolution / Max. Frame Rate	4M / 20fps, 2M / 30fps	4M / 20fps, 2M / 30fps	2M / 30fps	2M / 30fps	2M / 60fps	2M / 60fps	VGA / 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 10 Profiles)	Multiple (Up to 10 Profiles)	Multiple (Up to 3 Profiles)
Max. User Access	6 (Unicast)	6 (Unicast)	6 (Unicast)	6 (Unicast)	10 (Unicast)	10 (Unicast)	10 (Unicast)
Min. Illumination	Color: 0.15Lux B/W: 0Lux (IR LED on)	Color: 0.5Lux (QNV-7010R), 0.4Lux (QNV-7020R), 0.3Lux (QNV-7030R) B/W: 0Lux (IR LED on)	Color: 0.095Lux B/W: 0Lux (IR LED on)	Color: 0.15Lux B/W: 0Lux (IR LED on)	Color: 0.15Lux B/W: 0.015Lux	Color: 0.15Lux B/W: 0.015Lux	-
Video Output	-	-	-	-	-	-	CVBS 1.0Vpp
Lens	2.8 ~ 12mm (4.3x) Motorized V/F (F1.4)	2.8mm Fixed (F2.0) (QNV-7010R) 3.6mm Fixed (F2.2) (QNV-7020R) 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 ~ 142.6mm (Optical 32x) F1.6 (Wide) / F4.4 (Tele)	4.44 ~ 142.6mm (Optical 32x) F1.6 (Wide) / F4.4 (Tele)	37mm Fixed (F1.1)
Angular Field of View	H: 109.7° ~ 26.0° / V: 60.8° ~ 15.2° / D: 131.3° ~ 30.1°	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° ~ 32.4° / V: 53.7° ~ 18.4° / D: 121.9° ~ 37.1°	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: 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: 16.8° / V: 12.6°
Focus Control	Simple Focus (Motorized V/F) / Manual	-	Manual	-	Auto / Manual / One push	Auto / Manual / One push	fixed focus
IR Viewable Length	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°	-	360° Endless / 180° (-90° ~ 90°) / -	-
Day & Night	True (ICR)	True (ICR)	True (ICR)	True (ICR)	Auto (ICR)	Auto (ICR)	-
Backlight Compensation	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)	-
Digital Noise Reduction	SSNR	SSNR	SSNR	SSNR	SSNR/III (2D+3D Noise Filter)	SSNR/III (2D+3D Noise Filter)	SSNR
Digital Image Stabilization	-	-	-	-	Support	Support	-
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, Virtual Line, Enter / Exit, (Dis)Appear, Audio Detection, Face Detection	Motion Detection, Virtual Line, Enter / Exit, (Dis)Appear, Audio Detection, Face Detection	Motion Detection, Loss network, IP Conflict, Storage full / Error, Tripwire, Intrusion
Protocol	ONVIF Profile S & G, SUNAPI	ONVIF Profile S & G, SUNAPI	ONVIF Profile S & G, SUNAPI	ONVIF Profile S & G, SUNAPI	ONVIF Profile S, SUNAPI	ONVIF Profile S, SUNAPI	ONVIF Profile S
Alarm I/O	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1 (Relay)	1 / 1 (Relay)	-
Audio	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	NAS	NAS	SD/SDHC/SDXC, NAS
Environment Protection	IP66, IK10	IP66, IK10	IP66, IK10	IP66, IK10	IP67, IK10	IP67, IK10	IP66, IK10
Operating Temperature	-30°C ~ +55°C (-22°F ~ +131°F) * Start up Above -20°C (-4°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up Above -20°C (-4°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up Above -20°C (-4°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up Above -20°C (-4°F)	-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 ~ +60°C (-40°F ~ +140°F)
Power	DC 12V (Max. 6.4W), PoE (Max. 7.2W)	DC 12V (Max. 5.8W), PoE (Max. 7.0W) (QNV-7010R) DC 12V (Max. 5.7W), PoE (Max. 6.8W) (QNV-7020R/7030R)	DC 12V (Max. 5.5W), PoE (Max. 6.7W)	DC 12V (Max. 5.8W), PoE (Max. 7.0W) (QNV-6010R) DC 12V (Max. 5.7W), PoE (Max. 6.8W) (QNV-6020R/6030R)	AC 24V: Max. 28.0W (24V AC heater on)	AC 24V: Max. 49.0W (24V AC heater on)	DC 12V (Max. 8.0W), PoE (Max. 30.0W) (With heater)
Dimensions (WxHxD) / Weight	Ø137.0 x 106.1mm (Ø5.39" x 4.18") 680g (1.5 lb)	Ø120.3 x 91.7mm (Ø4.74" x 3.61") 490g (1.08 lb)	Ø137.0 x 106.1mm (Ø5.39" x 4.18") 660g (1.46 lb)	Ø120.3 x 91.7mm (Ø4.74" x 3.61") 490g (1.08 lb)	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)	Ø90.2 x 312.7mm (Ø2.76" x 12.31") (Without Sunshield) 1.25kg (2.76 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	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	Max. 1.3km Detection Available (Human)



WISENET P
PRN-4011



WISENET X
XRN-3010



WISENET X
XRN-2011



WISENET X
XRN-2010



WISENET X
XRN-1610S

	Linux	Linux	Linux	Linux	Linux
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

	Linux	Linux	Linux	Linux	Linux
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



	SNB-9000	SNB-8000	WISENET III SNB-7004	WISENET III SNB-6011B	WISENET III SNB-6010B	WISENET III SNB-6005	WISENET III SNB-6004	WISENET III SNB-6004F	WISENET III SNB-6003	WISENET III SNB-5004
Resolution	4K UHD & 12MP	5MP	3MP	2MP	2MP	2MP	2MP	2MP	2MP	1.3MP
Imaging Device	1/2.3" 12M CMOS	1/1.8" 6M CMOS	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	1/2.8" 2.38M CMOS	1/3" 1.3M 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	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
Resolution / Max. Frame Rate	8M / 30fps, 12M / 20fps	5M / 20fps	3M / 30fps	2M / 30fps	2M / 30fps	2M / 60fps	2M / 60fps	2M / 60fps	2M / 60fps	1.3M / 60fps
Streaming Capacity	Multiple (Up to 3 Profiles)	Multiple (Up to 6 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)	Multiple (Up to 10 Profiles)
Max. User Access	15 (Unicast)	10 (Unicast)	15 (Unicast)	15 (Unicast)	15 (Unicast)	15 (Unicast)	15 (Unicast)	15 (Unicast)	15 (Unicast)	15 (Unicast)
Min. Illumination	Color : 0.28Lux B/W : 0.03Lux	Color : 0.1Lux B/W : 0.01Lux	Color : 0.06Lux B/W : 0.006Lux	* Color : 0.3Lux	* Color : 0.3Lux	Color : 0.015Lux B/W : 0.0015Lux	Color : 0.03Lux B/W : 0.002Lux	Color : 0.03Lux B/W : 0.002Lux	Color : 0.03Lux B/W : 0.002Lux	Color : 0.008Lux B/W : 0.002Lux
Video Output	CVBS 1.0Vpp BNC 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	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)	-	-	-	-	-
Angular Field of View	-	-	-	H: 134.3° / V: 70.9°	H: 71° / V: 38°	-	-	-	-	-
Focus Control	Simple Focus / Manual	Simple Focus / Manual	Simple Focus / Manual	-	-	Simple Focus / Manual	Simple Focus / Manual	Simple Focus / Manual	Manual	Simple Focus / Manual
IR Viewable Length	-	-	-	-	-	-	-	-	-	-
Pan / Tilt / Rotate	-	-	-	-	-	-	-	-	-	-
Day & Night	True (ICR)	True (ICR)	True (ICR)	Electrical	Electrical	True (ICR)	True (ICR)	True (ICR)	Electrical	True (ICR)
Backlight Compensation	BLC / HLC	BLC	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (130dB)
Digital Noise Reduction	SSNRIII (2D+3D Noise Filter)	SSNR (2D+3D Noise Filter)	SSNRIII (2D+3D Noise Filter)	SSNRIII (2D+3D Noise Filter)	SSNRIII (2D+3D Noise Filter)	SSNRIII (2D+3D Noise Filter)	SSNRIII (2D+3D Noise Filter)	SSNRIII (2D+3D Noise Filter)	SSNRIII (2D+3D Noise Filter)	SSNRIII (2D+3D Noise Filter)
Digital Image Stabilization	-	-	Support	Support	Support	Support	Support	Support	Support	Support
Intelligent Video Analytics	Tampering, Virtual Line, Enter / Exit, (Dis)Appear, Audio Detection, Face Detection with Metadata	Tampering, Audio Detection	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 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 with Metadata
Protocol	ONVIF Profile S, SUNAPI	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, Open Platform	ONVIF Profile S, SUNAPI, Open Platform	ONVIF Profile S, SUNAPI, Open Platform
Alarm I/O	2 / 1	1 / 1	1 / 1	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	Bi-Directional	Bi-Directional	Bi-Directional
Edge Storage	Micro SD/SDHC/SDXC	Micro SD/SDHC/SDXC, NAS	Micro SD/SDHC/SDXC, NAS	Micro SD/SDHC/SDXC, NAS	Micro SD/SDHC/SDXC, NAS	SD/SDHC/SDXC, NAS	SD/SDHC/SDXC, NAS	Micro 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)	-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)	-10°C ~ +55°C (+14°F ~ +131°F)
Power	AC 24V (Max. 12.5W) DC 12V (Max. 12.0W) PoE (Max. 12.0W)	AC 24V (Max. 12.65W) DC 12V (Max. 10.68W) PoE (Max. 12.14W)	AC 24V (Max. 13.1W) DC 12V (Max. 11.1W) PoE (Max. 12.6W)	DC 12V (Max. 6.5W) PoE (Max. 7.5W)	DC 12V (Max. 6.5W) PoE (Max. 7.5W)	AC 24V (Max. 11.44W) DC 12V (Max. 10.1W) PoE (Max. 11.1W)	AC 24V (Max. 11.44W) DC 12V (Max. 10.1W) PoE (Max. 11.1W)	AC 24V (Max. 12.5W) DC 12V (Max. 10.5W)	AC 24V (Max. 9.5W) DC 12V (Max. 8.38W) PoE (Max. 9.18W)	AC 24V (Max. 11.53W) DC 12V (Max. 9.5W) PoE (Max. 11.0W)
Dimensions (WxHxD) / Weight	78.3 x 67.3 x 130.4mm (3.08" x 2.65" x 5.13") 493g (1.09 lb)	73.1 x 66.6 x 147.0mm (2.88" x 2.62" x 5.79") 566g (1.25 lb)	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)	73.1 x 66.6 x 147.8mm (2.88" x 2.62" x 5.82") 385g (0.85 lb)	73.1 x 66.6 x 136.2mm (2.88" x 2.62" x 5.36") 330g (0.73 lb)	73.1 x 66.6 x 147.8mm (2.88" x 2.62" x 5.82") 395g (0.87 lb)
Additional Features	RS-485	P-Iris, RS-485	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	P-Iris, Defog, RS-485, SFP, LC type	P-Iris, RS-485, Defog	P-Iris, RS-485, Defog

* Min. Illumination (50 IRE)

NETWORK



WISENET III SNB-5003
WISENET III SNZ-6320
SNO-8081R
WISENET III SNO-7084R
WISENET III SNO-6084R
WISENET III SNO-6011R
WISENET Lite SNO-L6083R
WISENET Lite SNO-L6013R
WISENET III SNO-5084R
WISENET Lite SNO-L5083R

	1.3MP	2MP	5MP	3MP	2MP	2MP	2MP	2MP	1.3MP	1.3MP
Resolution	1.3MP	2MP	5MP	3MP	2MP	2MP	2MP	2MP	1.3MP	1.3MP
Imaging Device	1/3" 1.3M CMOS	1/2.8" 2.38M CMOS	1/1.8" 6M CMOS	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	1/3" 1.37M CMOS	1/3" 1.37M CMOS
Video Compression Format	H.264, MJPEG	H.264, MJPEG	H.265, H.264, MJPEG	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	1.3M / 60fps	2M / 60fps	5M / 30fps	3M / 30fps	2M / 60fps	2M / 30fps	2M / 30fps	2M / 30fps	1.3M / 60fps	1.3M / 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)	Multiple (Up to 10 Profiles)	Multiple (Up to 3 Profiles)
Max. User Access	15 (Unicast)	10 (Unicast)	10 (Unicast)	15 (Unicast)	15 (Unicast)	15 (Unicast)	6 (Unicast)	6 (Unicast)	15 (Unicast)	6 (Unicast)
Min. Illumination	Color : 0.008Lux B/W : 0.008Lux	Color : 0.15Lux B/W : 0.015Lux	Color : 0.12Lux B/W : 0Lux (IR LED on)	Color : 0.06Lux B/W : 0Lux (IR LED on)	Color : 0.03Lux B/W : 0Lux (IR LED on)	Color : 0.08Lux B/W : 0Lux (IR LED on)	Color : 0.095Lux B/W : 0Lux (IR LED on)	Color : 0.15Lux B/W : 0Lux (IR LED on)	Color : 0.005Lux B/W : 0Lux (IR LED on)	Color : 0.04Lux B/W : 0Lux (IR LED on)
VIDEO										
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	CVBS 1.0Vpp	-	CVBS 1.0Vpp DIP Connector Type	-
Lens	-	4.44 ~ 142.6mm (Optical 32x) F1.6 (Wide) / F4.4 (Tele)	3.93 ~ 9.4mm (2.4x) Motorized V/F (F1.3)	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)	3 ~ 8.5mm (2.8x) Motorized V/F (F1.2)	2.8 ~ 12mm (4.3x) V/F (F1.4)
Angular Field of View	-	H: 62.8° (Wide) ~ 223° (Tele) / V: 36.8° (Wide) ~ 1.26° (Tele)	H: 93.4° (Wide) ~ 39.2° (Tele) / V: 68.1° (Wide) ~ 29.3° (Tele)	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: 93.4° (Wide) ~ 33.1° (Tele) / V: 73.8° (Wide) ~ 26.5° (Tele)	H: 88.2° (Wide) ~ 28.6° (Tele) / V: 69.4° (Wide) ~ 23.0° (Tele) / D: 117.3° (Wide) ~ 36.2° (Tele)
Focus Control	Manual	Auto / Manual / One push	Simple Focus (Motorized V/F) / Manual	Simple Focus (Motorized V/F) / Manual	Simple Focus (Motorized V/F) / Manual	Manual	Manual	-	Simple Focus (Motorized V/F) / Manual	Manual
OPERATIONAL										
IR Viewable Length	-	-	30m (98.43ft)	30m (98.43ft)	30m (98.43ft)	15m (49.21ft)	20m (65.62ft)	20m (65.62ft)	30m (98.43ft)	20m (65.62ft)
Pan / Tilt / Rotate	-	-	-	-	-	-	-	-	-	-
Day & Night	Electrical	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)
Backlight Compensation	WDR (130dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB, 15fps)	BLC, DWDR	BLC, DWDR	WDR (130dB)	BLC, DWDR
Digital Noise Reduction	SSNRIII (2D+3D Noise Filter)	SSNRIII (2D+3D Noise Filter)	SSNR (2D+3D Noise Filter)	SSNRIII (2D+3D Noise Filter)	SSNRIII (2D+3D Noise Filter)	SSNRIII (2D+3D Noise Filter)	SSNR	SSNR	SSNRIII (2D+3D Noise Filter)	SSNR
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	Motion Detection, Tampering, Audio 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	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	Motion Detection with Metadata, Tampering
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 & G, SUNAPI	ONVIF Profile S & G, SUNAPI	ONVIF Profile S, SUNAPI, Open Platform	ONVIF Profile S & G, SUNAPI
Alarm I/O	1 / 1	1 / 1 (Relay)	1 / 1	1 / 1	1 / 1	1 / 0	-	-	1 / 1	-
Audio	Bi-Directional	Bi-Directional	Bi-Directional	Bi-Directional	Bi-Directional	-	Uni-Directional	Uni-Directional	Bi-Directional	Uni-Directional
Edge Storage	SD/SDHC/SDXC, NAS	SD/SDHC/SDXC, NAS	SD/SDHC/SDXC, NAS, Local PC	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	Micro SD/SDHC, NAS
Environment Protection	-	-	IP66, IK10	IP66, IK10	IP66, IK10	IP66	IP66, IK10	IP66	IP66, IK10	IP66, IK10
Operating Temperature	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-40°C ~ +55°C (-40°F ~ +131°F) / * Start up Above -35°C (-31°F)	AC 24V: -50°C ~ +55°C (-58°F ~ +131°F) / DC 12V, PoE: -20°C ~ +55°C (-4°F ~ +131°F) * Start up Above -10°C (+14°F)	AC 24V: -50°C ~ +55°C (-58°F ~ +131°F) / DC 12V, PoE: -20°C ~ +55°C (-4°F ~ +131°F) * Start up Above -10°C (+14°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up Above -10°C (+14°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up Above -20°C (-4°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up Above -20°C (-4°F)	-30°C ~ +55°C (-22°F ~ +131°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up Above -20°C (-4°F)
Power	AC 24V (Max. 9.8W) DC 12V (Max. 8.32W) PoE (Max. 9.14W)	DC 12V (Max. 9.0W) PoE (Max. 10.0W)	AC 24V (Max. 12.0W / 13.5W - Heater on) DC 12V (Max. 10.0W) / 11.5W - Heater on) PoE (Max. 11.5W) / 12.95W - Heater on)	AC 24V (Max. 13.0W / 19.0W - Heater on) DC 12V (Max. 11.5W) PoE (Max. 12.5W)	Max. 11.0W - Heater off AC 24V (Max. 17.0W - Heater on)	PoE (Max. 8.5W)	PoE (Max. 5.9W)	PoE (Max. 5.7W)	AC 24V (Max. 12.0W, 13.5W - Heater on) DC 12V (Max. 10.0W, 11.5W - Heater on) PoE (Max. 1.5.0W, 12.95W - Heater on)	PoE (Max. 5.9W)
Dimensions (WxHxD) / Weight	73.1 x 66.6 x 136.2mm (2.88" x 2.62" x 5.36") 330g (0.73 lb)	72.0 x 59.9 x 135.4mm (2.83" x 2.36" x 5.33") 540g (1.19 lb)	82.4 x 87.0 x 348.3mm (3.24" x 3.43" x 13.71") (Without Sunshield) 1.42Kg (3.13 lb)	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)	82.4 x 82.4 x 312.6mm (3.24" x 3.24" x 12.31") (With sunshield) 1.17Kg (2.58 lb)	Ø70.0 x 246.0mm (Ø2.76" x 9.69") (Without Sunshield) 650g (1.43 lb)
Additional Features	P-Iris, RS-485, Defog	RS-485, Defog	Lens Distortion Correction, Hallway View, P-Iris	P-Iris, Defog	P-Iris, Defog	Defog	Lens Distortion Correction, Hallway View	Lens Distortion Correction, Hallway View	P-Iris, Defog	Lens Distortion Correction, Hallway View

NETWORK



SNF-8010/8010VM
**WISENET III
SND-7084**
**WISENET III
SND-6084**
**WISENET III
SND-6083**
**WISENET Lite
SND-L6013**
**WISENET Lite
SND-L6012**
**WISENET III
SND-5084**
**WISENET III
SND-5083**
**WISENET Lite
SND-L5013**

	5MP	3MP	2MP	2MP	2MP	2MP	1.3MP	1.3MP	1.3MP	
Resolution	5MP	3MP	2MP	2MP	2MP	2MP	1.3MP	1.3MP	1.3MP	
Imaging Device	1/1.8" 6M CMOS	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	1/3" 1.3M CMOS	1/3" 1.3M CMOS	1/3" 1.37M 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	H.264, MJPEG	H.264, MJPEG	
Resolution / Max. Frame Rate	5M / 20fps	3M / 30fps	2M / 60fps	2M / 60fps	2M / 30fps	2M / 30fps	1.3M / 60fps	1.3M / 60fps	1.3M / 30fps	
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 3 Profiles)	Multiple (Up to 3 Profiles)	Multiple (Up to 10 Profiles)	Multiple (Up to 10 Profiles)	Multiple (Up to 3 Profiles)	
Max. User Access	10 (Unicast)	15 (Unicast)	15 (Unicast)	15 (Unicast)	6 (Unicast)	6 (Unicast)	15 (Unicast)	15 (Unicast)	6 (Unicast)	
Min. Illumination	Color: 0.2Lux B/W: 0.02Lux	Color: 0.06Lux B/W: 0.006Lux	Color: 0.03Lux B/W: 0.002Lux	Color: 0.03Lux B/W: 0.03Lux	Color: 0.15Lux B/W: 0.15Lux	Color: 0.15Lux B/W: 0.15Lux	Color: 0.008Lux B/W: 0.002Lux	Color: 0.008Lux B/W: 0.002Lux	Color: 0.085Lux B/W: 0.085Lux	
Video Output	CVBS 1.0Vpp	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	1.14mm Fixed (F2.5)	3 ~ 8.5mm (2.8x) Motorized V/F (F1.2)	3 ~ 8.5mm (2.8x) Motorized V/F (F1.2)	3 ~ 8.5mm (2.8x) V/F (F1.2)	3.6mm Fixed (F1.8)	2.8mm Fixed (F1.8)	3 ~ 8.5mm (2.8x) Motorized V/F (F1.2)	2.8 ~ 10mm (3.6x) V/F (F1.2)	3.6mm Fixed (F1.8)	
Angular Field of View	H: 187.0° / V: 187.0° / D: 187.0°	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)	H: 106.18° (Wide) ~ 37.1° (Tele) / V: 58.42° (Wide) ~ 20.94° (Tele)	H: 86.5° / V: 47.8° / D: 101.2°	H: 110.0° / V: 61.0° / D: 125.0°	H: 93.3° (Wide) ~ 33.2° (Tele) / V: 73.7° (Wide) ~ 26.6° (Tele)	H: 94.6° (Wide) ~ 28.8° (Tele) / V: 68.4° (Wide) ~ 21.6° (Tele)	H: 74.0° / V: 58.0° / D: 97.0°	
Focus Control	Manual	Simple Focus (Motorized V/F) / Manual	Simple Focus (Motorized V/F) / Manual	Manual	-	-	Simple Focus (Motorized V/F) / Manual	Manual	-	
IR Viewable Length	-	-	-	-	-	-	-	-	-	
Pan / Tilt / Rotate	-	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	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°	0° ~ 350° / 0° ~ 67° / 0° ~ 355°	
Day & Night	True (ICR)	True (ICR)	True (ICR)	Electrical	Electrical	Electrical	True (ICR)	True (ICR)	Electrical	
Backlight Compensation	WDR (60dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)	BLC, DWDR	BLC, DWDR	WDR (130dB)	WDR (130dB)	BLC, DWDR	
Digital Noise Reduction	SSNRIII (2D+3D Noise Filter)	SSNRIII (2D+3D Noise Filter)	SSNRIII (2D+3D Noise Filter)	SSNRIII (2D+3D Noise Filter)	SSNR	SSNR	SSNRIII (2D+3D Noise Filter)	SSNRIII (2D+3D Noise Filter)	SSNR	
Digital Image Stabilization	-	Support	Support	Support	-	-	Support	Support	-	
Intelligent Video Analytics	Motion Detection, Audio Detection, Tampering	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	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	Motion Detection with Metadata, Tampering	
Protocol	ONVIF Profile S, SUNAPI	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, Open Platform	ONVIF Profile S, SUNAPI, Open Platform	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	Uni-Directional	Uni-Directional	Bi-Directional	Bi-Directional	Uni-Directional	
Edge Storage	Micro SD/SDHC/SDXC, NAS IP66, IK10 / EN-61373/50155 (SNF-8010VM)	Micro SD/SDHC/SDXC, NAS	SD/SDHC/SDXC, NAS	SD/SDHC/SDXC, NAS	Micro SD/SDHC, NAS	Micro SD/SDHC, NAS	SD/SDHC/SDXC, NAS	SD/SDHC/SDXC, NAS	Micro SD/SDHC, NAS	
Environment Protection	-	-	-	-	-	-	-	-	-	
Operating Temperature	-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)	-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)	-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	DC 12V (Max. 8.7W), PoE (Max. 10.3W) mode A only (SNF-8010VM)	DC 12V (Max. 9.6W) PoE (Max. 11.6W)	DC 12V (Max. 8.79W) PoE (Max. 9.57W)	DC 12V (Max. 8.09W) PoE (Max. 8.94W)	PoE (Max. 2.4W)	PoE (Max. 2.4W)	DC 12V (Max. 9.0W) PoE (Max. 11.0W)	DC 12V (Max. 9.0W) PoE (Max. 11.0W)	PoE (Max. 2.4W)	
Dimensions (WxHxD) / Weight	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)	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)	Ø132.1 x 107.6mm (Ø5.2" x 4.24") 485g (1.07 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") 525g (1.16 lb)	Ø132.1 x 107.6mm (Ø5.2" x 4.24") 500g (1.1 lb)	Ø110.0 x 86.0mm (Ø4.33" x 3.39") 240g (0.53 lb)	
Additional Features	Various Viewing Compositions, M12 Connector (SNF-8010VM)	P-Iris, Defog	P-Iris, Defog	Defog	Lens Distortion Correction, Hallway View	Lens Distortion Correction, Hallway View	P-Iris, Defog	Defog	Lens Distortion Correction, Hallway View	

NETWORK



WISENET III
SND-7084R



WISENET III
SND-6084R



WISENET III
SND-6011R



WISENET Lite
SND-L6083R



WISENET Lite
SND-L6013R



WISENET III
SND-5084R



WISENET Lite
SND-L5083R



SNV-8080



WISENET III
SNV-7084

	3MP	2MP	2MP	2MP	2MP	1.3MP	1.3MP	5MP	3MP
Resolution	3MP	2MP	2MP	2MP	2MP	1.3MP	1.3MP	5MP	3MP
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	1/3" 1.3M CMOS	1/3" 1.37M CMOS	1/1.8" 6M CMOS	1/2.8" 3.2M 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	H.264, MJPEG	H.264, MJPEG
Resolution / Max. Frame Rate	3M / 30fps	2M / 60fps	2M / 30fps	2M / 30fps	2M / 30fps	1.3M / 60fps	1.3M / 30fps	5M / 20fps	3M / 30fps
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 10 Profiles)	Multiple (Up to 3 Profiles)	Multiple (Up to 6 Profiles)	Multiple (Up to 10 Profiles)
Max. User Access	15 (Unicast)	15 (Unicast)	15 (Unicast)	6 (Unicast)	6 (Unicast)	15 (Unicast)	6 (Unicast)	10 (Unicast)	15 (Unicast)
Min. Illumination	Color : 0.06Lux B/W : 0Lux (IR LED on)	Color : 0.03Lux B/W : 0Lux (IR LED on)	Color : 0.08Lux B/W : 0Lux (IR LED on)	Color : 0.095Lux B/W : 0Lux (IR LED on)	Color : 0.15Lux B/W : 0Lux (IR LED on)	Color : 0.005Lux B/W : 0Lux (IR LED on)	Color : 0.04Lux B/W : 0Lux (IR LED on)	Color : 0.1Lux B/W : 0.01Lux	Color : 0.06Lux B/W : 0.006Lux
Video Output	CVBS 1.0Vpp DIP Connector Type	CVBS 1.0Vpp DIP Connector Type	CVBS 1.0Vpp	-	-	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)	3.8mm 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)	2.8 ~ 12mm (4.3x) V/F (F1.4)	3.6 ~ 9.4mm (2.6x) 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 : 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 : 93.4° (Wide) ~ 33.1° (Tele) / V : 73.8° (Wide) ~ 26.5° (Tele)	H : 88.2° (Wide) ~ 28.6° (Tele) / V : 69.4° (Wide) ~ 23.0° (Tele) / D : 117.3° (Wide) ~ 36.2° (Tele)	H : 104.0° (Wide) ~ 39.2° (Tele) / V : 75.2° (Wide) ~ 29.3° (Tele)	H : 100.12° (Wide) ~ 35.38° (Tele) / V : 73.76° (Wide) ~ 26.58° (Tele)
Focus Control	Simple Focus (Motorized V/F) / Manual	Simple Focus (Motorized V/F) / Manual	-	Manual	-	Simple Focus (Motorized V/F) / Manual	Manual	Simple Focus / Manual	Simple Focus (Motorized V/F) / Manual
IR Viewable Length	25m (82.02ft)	15m (49.21ft)	10m (32.81ft)	15m (49.21ft)	15m (49.21ft)	30m (98.43ft)	15m (49.21ft)	-	-
Pan / Tilt / Rotate	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	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° ~ 350° / 0° ~ 67° / 0° ~ 355°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°
Day & Night	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)
Backlight Compensation	WDR (120dB)	WDR (120dB)	WDR (120dB)	BLC, DWDR	BLC, DWDR	WDR (130dB)	BLC, DWDR	BLC	WDR (120dB)
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)	SSNR	SSNR (2D+3D Noise Filter)	SSNRIII (2D+3D Noise Filter)
Digital Image Stabilization	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	Motion Detection with Metadata, Tampering	Motion Detection with Metadata, Tampering	Tampering, Virtual Line, Enter / Exit, (Dis)Appear, Audio Detection, Face Detection	Motion Detection with Metadata, Tampering	Motion Detection, Tampering, Audio Detection	Tampering, Virtual Line, Enter / Exit, (Dis)Appear, Audio Detection, Face Detection
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, Open Platform	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 / 0	-	-	1 / 1	-	1 / 1	1 / 1
Audio	Bi-Directional	Bi-Directional	-	Uni-Directional	Uni-Directional	Bi-Directional	Uni-Directional	Bi-Directional	Bi-Directional
Edge Storage	Micro SD/SDHC/SDXC, NAS	SD/SDHC/SDXC, NAS	Micro SD/SDHC/SDXC	Micro SD/SDHC, NAS	Micro SD/SDHC, NAS	Micro SD/SDHC/SDXC, NAS	Micro SD/SDHC, NAS	Micro SD/SDHC/SDXC, NAS	Micro SD/SDHC/SDXC, NAS
Environment Protection	-	-	-	-	-	-	-	IP66, IK10	IP66, IK10
Operating Temperature	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-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) *Start up Above -35°C (-31°F)
Power	DC 12V (Max. 10.0W) PoE (Max. 11.0W)	DC 12V, PoE (Max. 9.0W)	PoE (Max. 8.0W)	PoE (Max. 5.4W)	PoE (Max. 5.9W)	DC 12V, PoE (Max. 10.5W)	PoE (Max. 5.4W)	AC 24V (Max. 14.2W) DC 12V (Max. 11.5W) PoE (Max. 12.95W)	AC 24V (Max. 11.0W, 13.0W - Heater on) DC 12V (Max. 9.0W, 11.5W - Heater on) PoE (Max. 10.0W, 12.5W - Heater on)
Dimensions (WxHxD) / Weight	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)	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)	Ø132.1 x 107.6mm (Ø5.2" x 4.24") 585g (1.29 lb)	Ø119.8 x 98.8mm (Ø4.72" x 3.89") 290g (0.64 lb)	Ø160.0 x 118.5mm (Ø6.3" x 4.67") 980g (2.16 lb)	Ø160.0 x 118.5mm (Ø6.3" x 4.67") 960g (2.12 lb)
Additional Features	P-Iris, Defog	P-Iris, Defog	Defog	Lens Distortion Correction, Hallway View	Lens Distortion Correction, Hallway View	P-Iris, Defog	Lens Distortion Correction, Hallway View	-	P-Iris, Defog

NETWORK



WISENET III
SNV-6084



WISENET III
SNV-6013



WISENET III
SNV-6012M



WISENET III
SNV-5084



SNV-8081R



WISENET III
SNV-7084R



WISENET III
SNV-6085R



WISENET III
SNV-6084R



WISENET Lite
SNV-L6083R



WISENET Lite
SNV-L6013R

	2MP	2MP	2MP	1.3MP	5MP	3MP	2MP	2MP	2MP	2MP
Resolution	2MP	2MP	2MP	1.3MP	5MP	3MP	2MP	2MP	2MP	2MP
Imaging Device	1/2.8" 2.38M CMOS	1/2.8" 2.38M CMOS	1/2.8" 2.38M CMOS	1/3" 1.3M CMOS	1/1.8" 6M CMOS	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
Video Compression Format	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	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	1.3M / 60fps	5M / 30fps	3M / 30fps	2M / 60fps	2M / 60fps	2M / 30fps	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 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	15 (Unicast)	15 (Unicast)	15 (Unicast)	15 (Unicast)	10 (Unicast)	15 (Unicast)	15 (Unicast)	15 (Unicast)	6 (Unicast)	6 (Unicast)
Min. Illumination	Color : 0.03Lux B/W : 0.002Lux	Color : 0.15Lux B/W : 0.15Lux	Color : 0.15Lux B/W : 0.15Lux	Color : 0.008Lux B/W : 0.002Lux	Color : 0.15Lux B/W : 0Lux (IR LED on)	Color : 0.06Lux B/W : 0Lux (IR LED on)	Color : 0.09Lux B/W : 0Lux (IR LED on)	Color : 0.03Lux B/W : 0Lux (IR LED on)	Color : 0.095Lux B/W : 0Lux (IR LED on)	Color : 0.15Lux B/W : 0Lux (IR LED on)
VIDEO	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	CVBS 1.0Vpp DIP Connector Type	-	-
Lens	3 ~ 8.5mm (2.8x) Motorized V/F (F1.2)	2.8mm Fixed (F1.8)	3mm Fixed (F2.0)	3 ~ 8.5mm (2.8x) Motorized V/F (F1.2)	3.93 ~ 9.4mm (2.4x) Motorized V/F (F1.3)	3 ~ 8.5mm (2.8x) Motorized V/F (F1.2)	10 ~ 23mm (2.3x) Motorized V/F (F1.6)	3 ~ 8.5mm (2.8x) Motorized V/F (F1.2)	2.8 ~ 12mm (4.3x) V/F (F1.4)	3.6mm Fixed (F1.8)
Angular Field of View	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°	H : 93.3° (Wide) ~ 33.2° (Tele) / V : 73.7° (Wide) ~ 26.6° (Tele)	H : 93.4° (Wide) ~ 39.2° (Tele) / V : 68.1° (Wide) ~ 29.3° (Tele)	H : 100.12° (Wide) ~ 35.38° (Tele) / V : 73.7° (Wide) ~ 26.58° (Tele)	H : 31.3° (Wide) ~ 13.9° (Tele) / V : 17.1° (Wide) ~ 7.8° (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°
Focus Control	Simple Focus (Motorized V/F) / Manual	-	-	Simple Focus (Motorized V/F) / Manual	Simple Focus (Motorized V/F) / Manual	Simple Focus (Motorized V/F) / Manual	Simple Focus (Motorized V/F) / Manual	Simple Focus (Motorized V/F) / Manual	Manual	-
IR Viewable Length	-	-	-	-	30m (98.43ft)	25m (82.02ft)	20m (65.62ft)	15m (49.21ft)	20m (65.62ft)	15m (49.21ft)
Pan / Tilt / Rotate	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	-	-10° ~ 10° / 0° ~ 90° / -	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 350° / 0° ~ 67° / 0° ~ 355°	-5° ~ 5° / 0° ~ 67° / 90°
Day & Night	True (ICR)	Electrical	Electrical	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)
Backlight Compensation	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (130dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)	BLC, DWDR	BLC, DWDR
Digital Noise Reduction	SSNRIII (2D+3D Noise Filter)	SSNRIII (2D+3D Noise Filter)	SSNRIII (2D+3D Noise Filter)	SSNRIII (2D+3D Noise Filter)	SSNR (2D+3D Noise Filter)	SSNRIII (2D+3D Noise Filter)	SSNRIII (2D+3D Noise Filter)	SSNRIII (2D+3D Noise Filter)	SSNR	SSNR
Digital Image Stabilization	Support	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, Face Detection, People counting, Zone analyzing	Tampering, Virtual Line, Enter / Exit, (Dis)Appear, Face Detection	Tampering, Virtual Line, Enter / Exit, (Dis)Appear, Audio Detection, Face Detection	Motion Detection, Tampering, Audio 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	Tampering, Virtual Line, Enter / Exit, (Dis)Appear, Audio Detection, Face Detection	Motion Detection with Metadata, Tampering	Motion Detection with Metadata, Tampering
OPERATIONAL	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, Open Platform	ONVIF Profile S & G, SUNAPI	ONVIF Profile S, 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	Uni-Directional	Uni-Directional
Edge Storage	SD/SDHC/SDXC, NAS	SD/SDHC/SDXC, NAS	SD/SDHC/SDXC, NAS	SD/SDHC/SDXC, NAS	SD/SDHC/SDXC, NAS, Local PC	Micro SD/SDHC/SDXC, NAS	Micro SD/SDHC, NAS, Local PC	SD/SDHC/SDXC, NAS	Micro SD/SDHC, NAS	Micro SD/SDHC, NAS
Environment Protection	IP66, IK10	IP66, IK10	IP66, IK10 / EN50155, EN50121	IP66, IK10	IP66, IK10	IP66, IK10	IP66, IK10	IP66, IK10	IP66, IK10	IP66, IK10
Operating Temperature	-40°C ~ +55°C (-40°F ~ +131°F) * Start up Above -35°C (-31°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up Above -10°C (+14°F)	-30°C ~ +55°C (-22°F ~ +131°F)	-40°C ~ +55°C (-40°F ~ +131°F) * Start up Above -35°C (-31°F)	-40°C ~ +55°C (-40°F ~ +131°F) * Start up Above -35°C (-31°F)	AC 24V : -40°C ~ +55°C (-40°F ~ +131°F) DC 12V, PoE : -20°C ~ +55°C (-4°F ~ +131°F) * Start up Above -10°C (+14°F)	-40°C ~ +55°C (-40°F ~ +131°F) * Start up Above -35°C (-31°F)	AC 24V : -40°C ~ +55°C (-40°F ~ +131°F) DC 12V, PoE : -20°C ~ +55°C (-4°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)
Power	DC 12V, AC 24V (Max. 14.0W - Heater on), PoE (Max. 12.95W - Heater on)	PoE (Max. 7.5W)	PoE (Max. 7.5W)	DC 12V, AC 24V (Max. 14.0W - Heater on), PoE (Max. 12.95W - Heater on)	AC 24V (Max. 12.0W / 13.5W - Heater on) / DC 12V (Max. 10.0W) / 11.5W - Heater on) / PoE (Max. 11.5W) / 12.95W - Heater on)	AC 24V (Max. 12.0W, 15.0W - Heater on) / DC 12V (Max. 10.5W), PoE (Max. 11.5W)	AC 24V, DC 12V, PoE (Max. 11.0W - Heater off), (Max. 12.95W - Heater on)	Max. 9.5W, AC 24V (Max. 13.5W - Heater on)	PoE (Max. 5.8W)	PoE
Dimensions (WxHxD) / Weight	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)	Ø160.0 x 118.5mm (Ø6.3" x 4.67") 985g (2.17 lb)	Ø160.0 x 118.5mm (Ø6.3" x 4.67") 955g (2.11 lb)	Ø160.0 x 118.5mm (Ø6.3" x 4.67") 975g (2.15 lb)	Ø160.0 x 118.5mm (Ø6.3" x 4.67") 970g (2.14 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)
Additional Features	P-Iris, Defog	Defog	Defog, M12 connector	P-Iris, Defog	Lens Distortion Correction, Hallway View, P-Iris	P-Iris, Defog	P-Iris, Defog	P-Iris, Defog	Lens Distortion Correction, Hallway View	Lens Distortion Correction, Hallway View
FEATURES										

NETWORK



WISENET Lite
SNV-L6014RM/L6014RBM



WISENET III
SNV-5084R



WISENET Lite
SNV-L5083R



WISENET III
SNP-6321H



WISENET III
SNP-6321



WISENET III plus
SNP-6320H



WISENET III plus
SNP-6320



WISENET Lite
SNP-L6233H

	2MP	1.3MP	1.3MP	2MP	2MP	2MP	2MP	2MP
Resolution	2MP	1.3MP	1.3MP	2MP	2MP	2MP	2MP	2MP
Imaging Device	1/2.9" 2.19M CMOS	1/3" 1.37M CMOS	1/3" 1.37M 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	H.264, MJPEG
Resolution / Max. Frame Rate	2M / 30fps	1.3M / 60fps	1.3M / 30fps	2M / 60fps	2M / 60fps	2M / 60fps	2M / 60fps	2M / 30fps
Streaming Capacity	Multiple (Up to 3 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 10 Profiles)	Multiple (Up to 10 Profiles)
Max. User Access	6 (Unicast)	15 (Unicast)	6 (Unicast)	10 (Unicast)	10 (Unicast)	15 (Unicast)	15 (Unicast)	10 (Unicast)
Min. Illumination	Color: 0.15Lux B/W: 0Lux (IR LED on)	Color: 0.005Lux B/W: 0Lux (IR LED on)	Color: 0.04Lux B/W: 0Lux (IR LED on)	Color: 0.15Lux B/W: 0.015Lux	Color: 0.15Lux B/W: 0.015Lux	Color: 0.2Lux B/W: 0.01Lux	Color: 0.2Lux B/W: 0.01Lux	Color: 0.15Lux B/W: 0.015Lux
VIDEO								
Video Output	-	CVBS 1.0Vpp DIP Connector Type	-	CVBS 1.0Vpp	CVBS 1.0Vpp	CVBS 1.0Vpp	CVBS 1.0Vpp	CVBS 1.0Vpp
Lens	3.6mm Fixed (F1.8)	3 ~ 8.5mm (2.8x) Motorized V/F (F1.2)	2.8 ~ 12mm (4.3x) V/F (F1.4)	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 ~ 142.6mm (Optical 32x) F1.6 (Wide) / F4.4 (Tele)	4.44 ~ 102.1mm (Optical 23x)
Angular Field of View	H: 86.5° / V: 47.8° / D: 101.2°	H: 93.4° (Wide) ~ 33.1° (Tele) / V: 73.8° (Wide) ~ 26.5° (Tele)	H: 88.2° (Wide) ~ 28.6° (Tele) / V: 69.4° (Wide) ~ 23.0° (Tele) / D: 117.3° (Wide) ~ 36.2° (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) ~ 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)
Focus Control	-	Simple Focus (Motorized V/F) / Manual	Manual	Auto / Manual / One push	Auto / Manual / One push	Auto / Manual / One push	Auto / Manual / One push	Auto / Manual / One push
OPERATIONAL								
IR Viewable Length	15m (49.21ft)	30m (98.43ft)	20m (65.62ft)	-	-	-	-	-
Pan / Tilt / Rotate	-5° ~ 5° / 0° ~ 67° / 90°	0° ~ 354° / 0° ~ 67° / 0° ~ 355°	0° ~ 350° / 0° ~ 67° / 0° ~ 355°	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 / 210° (-15° ~ 195°) / True (ICR)
Day & Night	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)
Backlight Compensation	BLC, DWDR	WDR (130dB)	BLC, DWDR	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (120dB)	WDR (100dB)
Digital Noise Reduction	SSNR	SSNRIII (2D+3D Noise Filter)	SSNR	SSNRIII (2D+3D Noise Filter)	SSNRIII (2D+3D Noise Filter)	SSNRIII (2D+3D Noise Filter)	SSNRIII (2D+3D Noise Filter)	SSNRIII (2D+3D Noise Filter)
Digital Image Stabilization	-	Support	-	Support	Support	Support	Support	Support
Intelligent Video Analytics	Motion Detection with Metadata, Tampering	Tampering, Virtual Line, Enter / Exit, (Dis)Appear, Audio Detection, Face Detection	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	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	ONVIF Profile S, SUNAPI, Open Platform	ONVIF Profile S & G, SUNAPI	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	-	4 / 2 (Relay)	4 / 2 (Relay)	4 / 2 (Relay)	4 / 2 (Relay)	4 / 2 (Relay)
Audio	Uni-Directional	Bi-Directional	Uni-Directional	Bi-Directional	Bi-Directional	Bi-Directional	Bi-Directional	Bi-Directional
Edge Storage	Micro SD/SDHC, NAS	Micro SD/SDHC/SDXC, NAS	Micro SD/SDHC, NAS	SD/SDHC/SDXC, NAS	SD/SDHC/SDXC, NAS	SD/SDHC/SDXC, NAS	Micro SD/SDHC/SDXC, NAS	SD/SDHC/SDXC, NAS
Environment Protection	IP66, IK10	IP66, IK10	IP66, IK10	IP66, IK10	IK10 (With SHP-3701H)	IP66, IK10	IK10 (With SHP-3701H)	IP66, IK10
Operating Temperature	-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)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up Above -20°C (-4°F)	AC 24V: -50°C ~ +55°C (-58°F ~ +131°F) PoE+: -30°C ~ +55°C (-22°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	AC 24V: -50°C ~ +55°C (-58°F ~ +131°F) PoE+: -30°C ~ +55°C (-22°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	AC 24V: -50°C ~ +55°C (-58°F ~ +131°F) PoE+: -30°C ~ +55°C (-22°F ~ +131°F)
Power	PoE	AC 24V, DC 12V, PoE (Max. 11.0W, 12.95W - Heater on)	PoE (Max. 5.8W)	AC 24V (Max. 65.0W - AC & PoE heater on) PoE+ (Max. 25.0W - PoE heater on)	AC 24V, PoE+ (Max. 20.0W)	AC 24V, PoE+ (Max. 65.0W - Heater on)	AC 24V, PoE+ (Max. 20.0W)	AC 24V (Max. 65.0W - AC & PoE heater on) PoE+ (Max. 25.0W - PoE heater on)
Dimensions (WxHxD) / Weight	99.0 x 52.0 x 100.0mm (3.9" x 2.05" x 3.94") 300g (0.66 lb)	Ø160.0 x 118.5mm (Ø6.3" x 4.67") 985g (2.17 lb)	Ø137.0 x 106.1mm (Ø5.39" x 4.18") 670g (1.48 lb)	Ø223.4 x 293.6mm (Ø8.8" x 11.56") 3.2Kg (7.05 lb)	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)
Additional Features	M12 connector, Lens Distortion Correction, Hallway View, Built-in mic	P-Iris, Defog	Lens Distortion Correction, Hallway View	RS-485, Defog	RS-485, Defog	Auto tracking, RS-485, Defog	Auto tracking, RS-485, Defog	RS-485, Defog

NETWORK



WISENET Lite
SNP-L6233



WISENET III
SNP-5321H/5321



WISENET Lite
SNP-L5233H



WISENET Lite
SNP-L5233



WISENET III plus
SNP-5430H/5430



WISENET III plus
SNP-6320RH



WISENET III plus
SNP-6230RH



WISENET Lite
SNP-L6233RH

	2MP	1.3MP	1.3MP	1.3MP	1.3MP	2MP	2MP	2MP
Resolution	2MP	1.3MP	1.3MP	1.3MP	1.3MP	2MP	2MP	2MP
Imaging Device	1/2.8" 2.38M CMOS	1/3" 1.3M CMOS	1/3" 1.3M CMOS	1/3" 1.3M CMOS	1/4" 1.3M 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	H.264, MJPEG
Resolution / Max. Frame Rate	2M / 30fps	1.3M / 60fps	1M / 30fps	1M / 30fps	1.3M / 60fps	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)	Multiple (Up to 10 Profiles)
Max. User Access	10 (Unicast)	10 (Unicast)	10 (Unicast)	10 (Unicast)	15 (Unicast)	15 (Unicast)	15 (Unicast)	15 (Unicast)
Min. Illumination	Color: 0.15Lux B/W: 0.015Lux	Color: 0.05Lux B/W: 0.005Lux	Color: 0.05Lux B/W: 0.005Lux	Color: 0.05Lux B/W: 0.005Lux	Color: 0.3Lux B/W: 0.006Lux	Color: 0.1Lux B/W: 0Lux (IR LED on)	Color: 0.1Lux B/W: 0Lux (IR LED on)	Color: 0.1Lux B/W: 0Lux (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	CVBS 1.0Vpp
Lens	4.44 ~ 102.1mm (Optical 23x)	4.44 ~ 142.6mm (Optical 32x) F1.6 (Wide) / F4.4 (Tele)	4.44 ~ 102.1mm (Optical 23x)	4.44 ~ 102.1mm (Optical 23x)	3.5 ~ 150.5mm (Optical 43x) F1.4 (Wide) / F4.9 (Tele)	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) ~ 3.14° (Tele) / V: 36.8° (Wide) ~ 1.76° (Tele)	H: 56.8° (Wide) ~ 1.99° (Tele) / V: 46.3° (Wide) ~ 1.6° (Tele)	H: 56.8° (Wide) ~ 2.8° (Tele) / V: 46.3° (Wide) ~ 2.24° (Tele)	H: 56.8° (Wide) ~ 2.8° (Tele) / V: 46.3° (Wide) ~ 2.24° (Tele)	H: 53.92° (Wide) ~ 1.396° (Tele) / V: 44.08° (Wide) ~ 1.12° (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	Auto / Manual / One push	AF / One-shot AF / Manual	AF / One-shot AF / Manual	AF / One-shot AF / Manual
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 / 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)
Day & Night	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)
Backlight Compensation	WDR (100dB)	WDR (120dB)	WDR (100dB)	WDR (100dB)	WDR (120dB)	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 III (2D+3D Noise Filter)	SSNR
Digital Image Stabilization	Support	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	Tampering, Virtual Line, Enter / Exit, (Dis)Appear, Audio Detection, Face Detection
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, Open Platform	ONVIF Profile S, SUNAPI
Alarm I/O	4 / 2 (Relay)	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	Bi-Directional
Edge Storage	SD/SDHC/SDXC, NAS	SD/SDHC/SDXC, NAS	SD/SDHC/SDXC, NAS	SD/SDHC/SDXC, NAS	SD/SDHC/SDXC, NAS Micro SD/SDHC/SDXC (SNP-5430H) 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 (SNP-5321H), IK10 (With SHP-3701H) (SNP-5321)	IP66, IK10	IK10 (With SHP-3701H)	IP66, IK10 (SNP-5430H), IK10 (With SHP-3701H) (SNP-5430)	IP66, IK10	IP66, IK10	IP66, IK10
Operating Temperature	-10°C ~ +55°C (+14°F ~ +131°F)	AC 24V: -50°C ~ +55°C (-58°F ~ +131°F) PoE+: -30°C ~ +55°C (-22°F ~ +131°F) (SNP-5321H), -10°C ~ +55°C (+14°F ~ +131°F) (SNP-5321)	AC 24V: -50°C ~ +55°C (-58°F ~ +131°F) PoE+: -30°C ~ +55°C (-22°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	AC 24V: -50°C ~ +55°C (-58°F ~ +131°F) PoE+: -30°C ~ +55°C (-22°F ~ +131°F) (SNP-5430H), -10°C ~ +55°C (+14°F ~ +131°F) (SNP-5430)	-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	AC 24V, PoE+ (Max. 20.0W)	AC 24V (Max. 65.0W - AC & PoE heater on) PoE+ (Max. 25.0W - PoE heater on) (SNP-5321H), AC 24V, PoE+ (Max. 20.0W) (SNP-5321)	AC 24V (Max. 65.0W - AC & PoE heater on) PoE+ (Max. 25.0W - PoE heater on)	AC 24V, PoE+ (Max. 20.0W)	AC 24V, PoE+ (Max. 24.0W), AC 24V (Max. 65.0W - Heater on) (SNP-5430H), AC 24V, PoE+ (Max. 20.0W) (SNP-5430)	AC 24V (Max. 30.0W - heater off Max. 35.0W/90.0W - Heater Off / On, IR on)	AC 24V (Max. 30.0W - heater off Max. 35.0W/90.0W - Heater Off / On, IR on)	AC 24V (Max. 30.0W - heater off Max. 35.0W/90.0W - Heater Off / On, IR on)
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") 3.2Kg (7.05 lb) (SNP-5321H), Ø152.0 x 218.0mm (Ø5.98" x 8.58") 1.8Kg (3.97 lb) (SNP-5321)	Ø223.4 x 293.6mm (Ø8.8" x 11.56") 3.2Kg (7.05 lb)	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") 3.4Kg (7.5 lb) (SNP-5430H), Ø152.0 x 218.0mm (Ø5.98" x 8.58") 2.2Kg (4.85 lb) (SNP-5430)	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	RS-485, Defog	RS-485, Defog	RS-485, Defog	Auto tracking, RS-485, Defog	Auto tracking, RS-485/422, Defog	Auto tracking, RS-485/422, Defog	RS-485/422, Defog



SRN-1673S

SRN-873S

SRN-473S

	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



SRN-472S

SRM-872

	SRN-472S	SRM-872
OS	Linux	Linux
Supported Compression	H.264, MJPEG	H.264, MJPEG
Max. Recording Bit Rate	32Mbps	64Mbps
Max # of Cameras	4	8
Internal Storage	Up to 2 SATA	Up to 1 SATA (2.5")
External Storage	-	-
RAID	-	-
Hot Swap	-	Yes
Isolated Networks for Cameras / Source	Yes	Yes
Network Viewer Software	SSM, SmartViewer, iPOLIS Mobile	SmartViewer AUTO, iPOLIS Mobile AUTO
Local Monitor	HDMI / VGA	HDMI / VGA
Camera Support	Samsung, ONVIF	Samsung, ONVIF
Features	<ul style="list-style-type: none"> • Plug & Play by 4 PoE Ports • WebViewer Supported 	<ul style="list-style-type: none"> • Plug & Play by 8 PoE Ports • GPS Supported • Standards Approval for Transportation (EN50155, EN61373)



IP Network Knowledge?
Not necessary!
JUST PLUG and PLAY!

SRN-1673S/873S/473S

Real-Time Storage of All Channels

- Max. 2MP 16CH Realtime Recording (Max. 80Mbps Recording)

Easy Install & Enhanced User Convenience

- Replaceable HDD 4ea, e-SATA Support (SRN-1673S)
- PoE/PoE+ Support for all Channels
- Installation Wizard Function with Easy Setup Without PC

Meet Retail Vertical Needs and Enhanced System Scalability

- Compact Design
- POS Integration
- Compatible with PoE Extender (SPO-100), Controller (SPC-2000), PoE Switch



NETWORK

Encoder / Decoder



SPE-400



SPE-101



SPE-100



SPE-400B

	SPE-400	SPE-101	SPE-100	SPE-400B
Max. # of Cameras	4	1	1	4
Supported Compression	H.264, MJPEG, MPEG-4	H.264, MJPEG, MPEG-4	H.264, MJPEG, MPEG-4	H.264, MJPEG, MPEG-4
Max. Resolution	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	30/25fps (NTSC / PAL)	30/25fps (NTSC / PAL)	30/25fps (NTSC / PAL)	30/25fps (NTSC / PAL)
Bi-Directional Audio	Yes	-	Yes	-
RS-485	4	1	1	4
Alarm I/O	4 / 4	-	1 / 1	4 / 4
SD Card	SD/SDHC	-	SD/SDHC	-
ONVIF	Yes	Yes	Yes	Yes
Power	DC 12V	DC 12V / PoE	DC 12V / PoE	DC 5V



SPD-400



SPD-150

	SPD-400	SPD-150
Video Out	HDMI, VGA, CVBS	HDMI, VGA, CVBS
Resolution	H.264 : up to 2M / Quad View-up to 720p	HDMI up to 4K, VGA up to 1080p
Display	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 Split Mode, Halfway 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	DC 12V	DC 12V, PoE
Additional Features	-	Up to 48CH, H.265 / H.264 / MJPEG Codec, Layout Sequence Support

Encoder Rack



SPE-1600R

# of Slots	4 slots for SPE-400B
Max. # of Channels	16
Network	RJ-45 (10 / 100 / 1000BASE-T)
Rack Size	1U
Power	AC 100V ~ 240V

SSM

SSM is a video management software that provides features for surveillance operation such as live Monitoring, video recording, playback and event management.

It consists of server software and client software. Server software separated by function module such as recording purpose server, video wall display purpose server and so on.

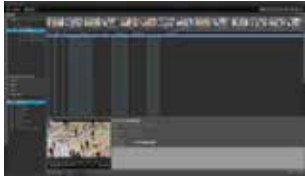
SSM Clients



Live Monitoring



Playback



Event Management

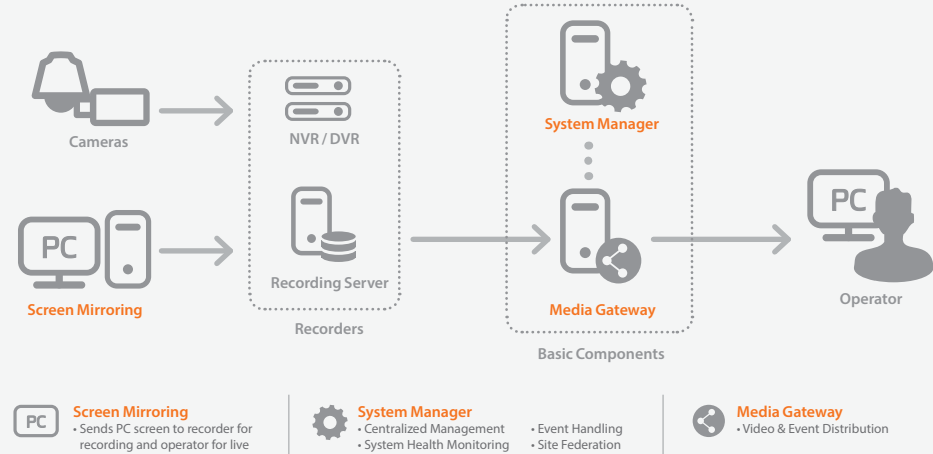


Video Wall Control

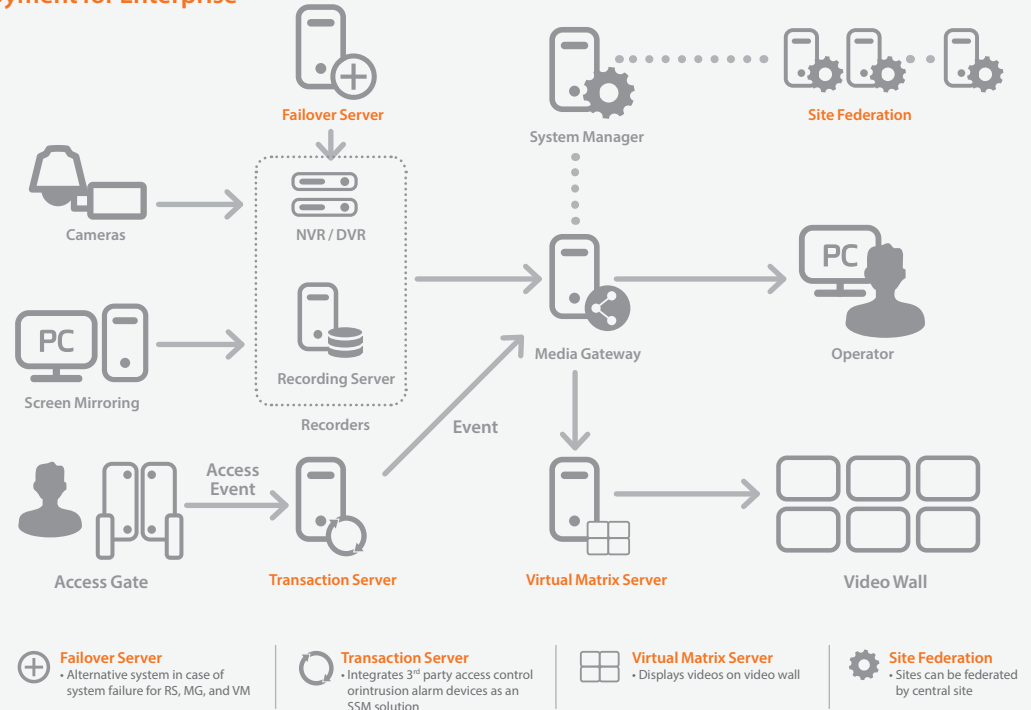
SSM Server Components and Main Features

SSM V1.6	PROFESSIONAL	ENTERPRISE	
Maximum Number of Cameras	288	Unlimited	
Maximum Number of Clients	5	Unlimited	
Architecture	Multi-server	Multi-server	
SUMMARY			
Basic Components	System Manager	Yes	Yes
	Media Gateway	Yes	Yes
Add-on Components	Recording Server	Yes	Yes
	Virtual Matrix	-	Yes
	Screen Mirroring	Yes	Yes
	Transaction Server	-	Yes
	Transcoder	-	Yes
Features	Failover Server	-	Yes
	Live Monitoring	Yes	Yes
	Search and Playback	Yes	Yes
	Event Monitoring	Yes	Yes
	Map Monitoring	Yes	Yes
	Wall Management	-	Yes
	POS Monitoring	Yes	Yes
	Google Map Monitoring	-	Yes
	Video Analytics Monitoring	-	Yes
	Advanced Health Monitoring	-	Yes
	Access Control Monitoring	-	Yes
	Video Summary Search	-	Yes
Active Directory Integration	-	Yes	
Site Federation	-	Yes	

Deployment for Professional



Deployment for Enterprise



Reader



Wisenet Access
R10/R10 Elite/R10 Elite Mobile



Wisenet Access
R40/R40 Elite/R40 Elite Mobile



Wisenet Access
RK40/RK40 Elite/RK40 Elite Mobile



Wisenet Access
BioEntry W2



Wisenet Access
5427CK



Wisenet Access
BioMini

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

Controller



Wisenet Access
V2000



Wisenet Access
EH400K



Wisenet Access
V1000



Wisenet Access
V100



Wisenet Access
V200



Wisenet Access
V300

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

Card



iCLASS SE



iCLASS SEOS Elite



Mobile ID

<ul style="list-style-type: none"> • 13.56Mhz • Compatible with R10 / R40 / RK40 	<ul style="list-style-type: none"> • 13.56Mhz • Compatible with R10 Elite / R40 Elite / RK40 Elite • Encoded by Hanwha Techwin unique format 	<ul style="list-style-type: none"> • Bluetooth / NFC via Mobile device (Android, iOS) • Compatible with R10 Elite Mobile / R40 Elite Mobile / RK40 Elite Mobile
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Peripheral



Wisenet Access
SSA-X300

Controller/Interface On Board	Max 2EA Boards in Enclosure
Input Power	100 ~ 240VAC (50Hz/60Hz) / 2.0A
Power Consumption	13.5V±5%, 4.7A (Strobe, Horn DC 12.5V±5%)
Charging Current	700mA
Back up Battery	12V, 18Ah, Rechargeable
SMPS Status Transmission	AC Loss, Battery Fail (Non Battery)
AC Input Protection	by Fuse in Input Port
Operation Temperature	0°C ~ +45°C (+32°F ~ +113°F)
Case Lock	Lock on Front Door with Keys
Dimension (mm)	410 x 410 x 97mm (16.14" x 16.14" x 3.82")

Wisenet Access Software

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

Key Features



Configuration



Mustering Report



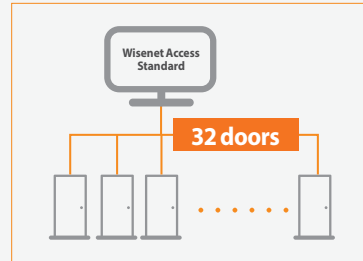
Monitoring



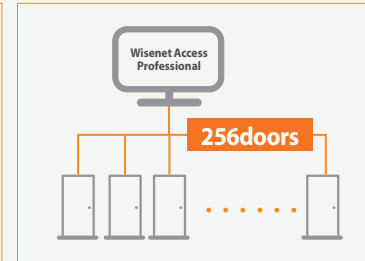
Card Design

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

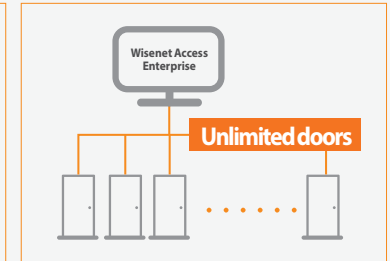
Wisenet Access Standard / Professional / Enterprise Version



Wisenet Access Standard : Up to 32 doors

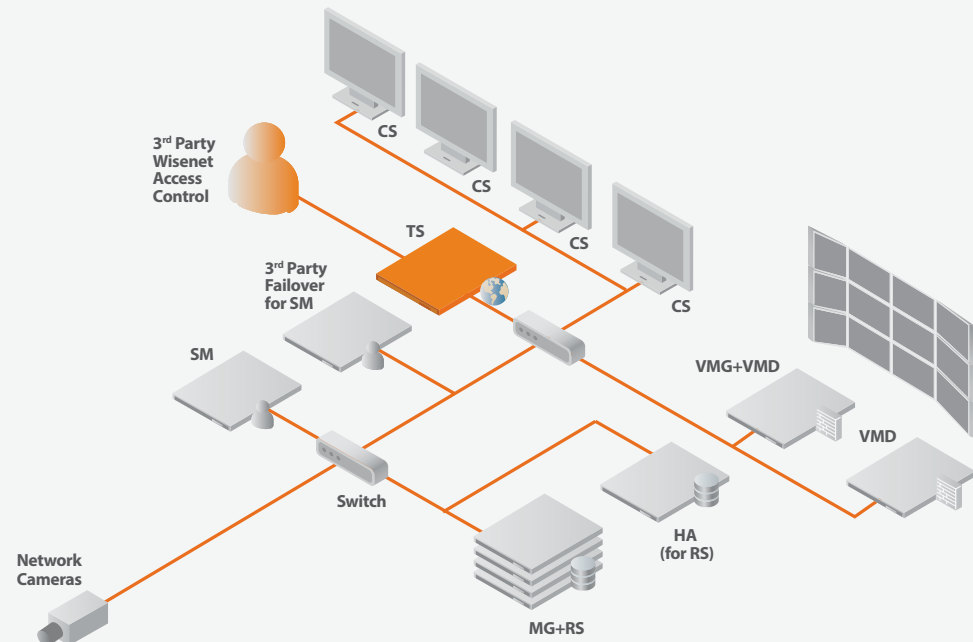


Wisenet Access Professional : Up to 256 doors



Wisenet Access Enterprise : Unlimited doors

SSM Enterprise Integration





	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
TV Lines / Resolutions	4MP	4MP	4MP	4MP	4MP	4MP	4MP
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: TBD B/W: 0.009Lux (F1.2)	Color: TBD B/W: 0Lux (IR LED on)	Color: 0.15Lux (F1.4) B/W: 0Lux (IR LED on)	Color: TBD B/W: 0Lux (IR LED on)	Color: 0.15Lux (F1.4) B/W: 0Lux (IR LED on)	Color: TBD B/W: 0Lux (IR LED on)	Color: 0.15Lux (F1.4) B/W: 0Lux (IR LED on)
Lens	-	2.7 ~ 12mm (4.3x) varifocal	2.8mm Fixed (F1.8) (HCO-7010R) 4.0mm Fixed (F2.0) (HCO-7020R) 6.0mm Fixed (F2.0) (HCO-7030R)	2.7 ~ 12mm (4.3x) varifocal	2.8mm Fixed (F1.8) (HCD-7010R) 4.0mm Fixed (F2.0) (HCD-7020R) 6.0mm Fixed (F2.0) (HCD-7030R)	2.7 ~ 12mm (4.3x) varifocal	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)	20m (65.62ft)	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	-	TBD	H: 110.0° / V: 63.0° / D: 128.0° (HCO-7010R) H: 81.0° / V: 45.0° / D: 95.0° (HCO-7020R) H: 53.0° / V: 31.0° / D: 62.0° (HCO-7030R)	TBD	H: 110.0° / V: 63.0° / D: 128.0° (HCD-7010R) H: 81.0° / V: 45.0° / D: 95.0° (HCD-7020R) H: 53.0° / V: 31.0° / D: 62.0° (HCD-7030R)	TBD	H: 110.0° / V: 63.0° / D: 128.0° (HCV-7010R) H: 81.0° / V: 45.0° / D: 95.0° (HCV-7020R) H: 53.0° / V: 31.0° / D: 62.0° (HCV-7030R)
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)	True (ICR)
Backlight Compensation	BLC / HLC	BLC / HLC	BLC / HLC	BLC / HLC	BLC / HLC	BLC / HLC	BLC / HLC
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	2 Zones	2 Zones	2 Zones rectangle	2 Zones	2 Zones rectangle	2 Zones	2 Zones rectangle
Intelligent Video Analytics	-	-	-	-	-	-	-
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	NTSC/PAL : Pelco-C (Coaxitron) AHD : ACP (AHD Coax Protocol) RS-485 (SAMSUNG-T / PELCO-D / PELCO-P)	NTSC/PAL : Pelco-C (Coaxitron) AHD : ACP (AHD Coax Protocol)	NTSC/PAL : Pelco-C (Coaxitron) AHD : ACP (AHD Coax Protocol)	NTSC/PAL : Pelco-C (Coaxitron) AHD : ACP (AHD Coax Protocol)	NTSC/PAL : Pelco-C (Coaxitron) AHD : ACP (AHD Coax Protocol)	NTSC/PAL : Pelco-C (Coaxitron) AHD : ACP (AHD Coax Protocol)	NTSC/PAL : Pelco-C (Coaxitron) AHD : ACP (AHD Coax Protocol)
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)	-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	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Dimensions (WxHxD) / Weight	68.4 x 59.6 x 92.7mm (2.69" x 2.35" x 3.65") TBD	Ø78.0 x 87.0 x 260.0mm (Ø3.07" x 3.43" x 10.24") (Without SunShield) TBD	Ø70.0 x 77.6 x 246.0 mm (Ø2.76" x 3.06" x 9.69") (Without SunShield) TBD	Ø119.8 x 98.5mm (Ø4.72" x 3.88") TBD	Ø110.1 x 86mm (Ø4.33" x 3.39") 922g (2.03 lb)	Ø137 x 106.1mm (Ø5.39" x 4.18") 922g (2.03 lb)	Ø120.3 x 91.7mm (Ø4.74" x 3.61") TBD
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)



TV Lines / Resolutions	2MP	2MP	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	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	1920 x 1080
Min. Illumination	Color: 0.09Lux B/W: 0.009Lux	Color: 0.04Lux B/W: 0.004Lux	Color: 0.11Lux B/W: 0Lux (IR LED on)	Color: 0.11Lux B/W: 0Lux (IR LED on)	Color: 0.11Lux B/W: 0Lux (IR LED on)	Color: 0.11Lux B/W: 0Lux (IR LED on)	Color: 0.11Lux B/W: 0Lux (IR LED on)	Color: 0.11Lux B/W: 0Lux (IR LED on)
Lens	-	-	2.7 ~ 12m (4.4x) Motorized V/F (F1.3)	2.7 ~ 12m (4.4x) V/F (F1.3)	2.7 ~ 12m (4.4x) Motorized V/F (F1.3)	2.7 ~ 12m (4.4x) V/F (F1.3)	2.7 ~ 12m (4.4x) Motorized V/F (F1.3)	2.7 ~ 12m (4.4x) V/F (F1.3)
IR Viewable Length	-	-	30m (98.43ft)	30m (98.43ft)	20m (65.62ft)	20m (65.62ft)	30m (98.43ft)	30m (98.43ft)
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: 103.8° (Wide) ~ 32.4° (Tele) / V: 53.7° (Wide) ~ 18.4° (Tele) / D: 121.9° (Wide) ~ 37.1° (Tele)	H: 103.8° (Wide) ~ 32.4° (Tele) / V: 53.7° (Wide) ~ 18.4° (Tele) / D: 121.9° (Wide) ~ 37.1° (Tele)	H: 103.8° (Wide) ~ 32.4° (Tele) / V: 53.7° (Wide) ~ 18.4° (Tele) / D: 121.9° (Wide) ~ 37.1° (Tele)	H: 103.8° (Wide) ~ 32.4° (Tele) / V: 53.7° (Wide) ~ 18.4° (Tele) / D: 121.9° (Wide) ~ 37.1° (Tele)	H: 103.8° (Wide) ~ 32.4° (Tele) / V: 53.7° (Wide) ~ 18.4° (Tele) / D: 121.9° (Wide) ~ 37.1° (Tele)
Pan / Tilt / Rotate	-	-	-	-	0° ~ 350° / 0° ~ 67° / 0° ~ 355°	0° ~ 350° / 0° ~ 67° / 0° ~ 355°	0° ~ 350° / 0° ~ 67° / 0° ~ 355°	0° ~ 350° / 0° ~ 67° / 0° ~ 355°
OPERATIONAL								
Day & Night	True (ICR)	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)	WDR (120dB)
Digital Noise Reduction	SSNRIV	SSNRIV	SSNRIV	SSNRIV	SSNRIV	SSNRIV	SSNRIV	SSNRIV
Motion Detection	Support	Support	Support	Support	Support	Support	Support	Support
Privacy Masking	4 Zones	4 Zones	4 Zones	4 Zones	4 Zones	4 Zones	4 Zones	4 Zones
Intelligent Video Analytics	-	-	-	-	-	-	-	-
FEATURES								
Alarm I/O	0 / 1, External D/N I	0 / 1, External D/N I	MD Output 1	MD Output 1	MD Output 1	MD Output 1	MD Output 1	MD Output 1
Communication	Coax: Pelco-C (Coaxitron) AHD: ACP (AHD Coax Protocol), RS-485	Coax: Pelco-C (Coaxitron) AHD: ACP (AHD Coax Protocol), RS-485	NTSC/PAL: Pelco-C (Coaxitron) AHD: ACP (AHD Coax Protocol)	NTSC/PAL: Pelco-C (Coaxitron) AHD: ACP (AHD Coax Protocol)	NTSC/PAL: Pelco-C (Coaxitron) AHD: ACP (AHD Coax Protocol)	NTSC/PAL: Pelco-C (Coaxitron) AHD: ACP (AHD Coax Protocol)	NTSC/PAL: Pelco-C (Coaxitron) AHD: ACP (AHD Coax Protocol)	NTSC/PAL: Pelco-C (Coaxitron) AHD: ACP (AHD Coax Protocol)
Environment Protection	-	-	IP66, IK10	IP66, IK10	-	-	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)	-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	AC 24V & DC 12V (Max. 6W)	AC 24V & DC 12V (Max. 3.5W)	AC 24V & DC 12V (Max. 6.0W)	AC 24V & DC 12V (Max. 6.0W)	AC 24V & DC 12V (Max. 4.2W)	AC 24V & DC 12V (Max. 4.2W)	AC 24V & DC 12V (Max. 4.2W)	AC 24V & DC 12V (Max. 4.2W)
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 (3.07" x 10.24") (Without SunShield) 922g (2.03 lb)	Ø78.0 x 260.0mm (3.07" 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)	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)	Video transmission up to 500m (75-5 Coaxial Cable)	Video transmission up to 500m (75-5 Coaxial Cable)



WISENET HD+
HCM-9020VQ



WISENET HD+
HCP-6320HA/6320A



WISENET HD+
HCP-6230H/6230



WISENET HD+
SCB-6003



WISENET HD+
SCO-6083R



WISENET HD+
SCO-6023R

TV Lines / Resolutions	2MP	2MP	2MP	2MP	2MP	2MP
VIDEO						
Imaging Device	1/3" 2M CMOS Sensor x 4ea	1/2.8" 2.38M CMOS	1/2.8" 2.38M 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: 0.1Lux (4mm) / 0.01Lux (6mm) B/W: 0.01Lux (4mm) / 0.01Lux (6mm)	Color: 0.2Lux B/W: 0.01Lux	Color: 0.2Lux B/W: 0.01Lux	Color: 0.04Lux B/W: 0.004Lux	Color: 0.11Lux B/W: 0Lux (IR LED on)	Color: 0.25Lux B/W: 0Lux (IR LED on)
Lens	4mm x 2ea, 6mm x 2ea	4.44 ~ 142.6mm (Optical 32x) F1.6 (Wide) / F4.4 (Tele)	4.44 ~ 101.2mm (Optical 23x) F1.6 (Wide) / F3.63 (Tele)	-	2.8 ~ 12mm (4.3x) V/F (F1.4)	4mm Fixed (F 2.1)
IR Viewable Length	-	-	-	-	30m (98.43ft)	20m (65.62ft)
Angular Field of View	[4mm] H: 80.20° / V: 43.50° / D: 95.24° [6mm] H: 51.66° / V: 30.46° / D: 60.78°	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: 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°
Pan / Tilt / Rotate	20° ~ 60° / 0° / 355°	360° Endless / 210° (-15° ~ 195°) / -	360° Endless / 210° (-15° ~ 195°) / -	-	-	-
OPERATIONAL						
Day & Night	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)
Backlight Compensation	WDR (100dB)	WDR (120dB)	WDR (120dB)	BLC / DWDR	BLC / DWDR	BLC / DWDR
Digital Noise Reduction	Off / Low / Middle / High	SSNR III	SSNR III	SSNR IV	SSNR IV	SSNR IV
Motion Detection	Support	Support	Support	Support	Support	Support
Privacy Masking	16ea	32 Zones	32 Zones	4 Zones	4 Zones	4 Zones
Intelligent Video Analytics	-	Tampering, Virtual Line, Enter / Exit, (Dis)Appear,	Tampering, Virtual Line, Enter / Exit, (Dis)Appear,	-	-	-
FEATURES						
Alarm I/O	0 / 4	4 / 2 (Relay)	4 / 2 (Relay)	0 / 1	0 / 1	-
Communication	Pelco-C (Coaxitron), Pelco-D (RS485)	RS-485 : Samsung-T/E, Pelco-P/D, Sungjin, Panasonic, Honeywell, AD, Vicon, Bosch, GE	RS-485 : Samsung-T/E, Pelco-P/D, Sungjin, Panasonic, Honeywell, AD, Vicon, Bosch, GE AHD : ACP (AHD Coax Protocol)	NTSC/PAL : Samsung CCVC, Pelco-C (Coaxitron) AHD : ACP (AHD Coax Protocol), RS-485	NTSC/PAL : Samsung CCVC, Pelco-C (Coaxitron) AHD : ACP (AHD Coax Protocol)	NTSC/PAL : Samsung CCVC, Pelco-C (Coaxitron) AHD : ACP (AHD Coax Protocol)
Environment Protection	IP66, IK10	IP66, IK10 (HCP-6320HA), IK10 (With SHP-3701H) (HCP-6320A)	IP66, IK10 (HCP-6230H), IK10 (With SHP-3701H) (HCP-6230)	-	IP66, IK10	IP66
Operating Temperature	-30°C ~ +50°C (-22°F ~ +122°F) * Start up Above -10°C (+14°F)	-50°C ~ +55°C (-58°F ~ +131°F) (HCP-6320HA), -10°C ~ +55°C (+14°F ~ +131°F) (HCP-6320A)	-50°C ~ +55°C (-58°F ~ +131°F) (HCP-6230H), -10°C ~ +55°C (+14°F ~ +131°F) (HCP-6230)	-10°C ~ +55°C (+14°F ~ +131°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up Above -10°C (+14°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up Above -10°C (+14°F)
Power	AC 24V (Max. 7.3W, TDN On) DC 12V (Max. 6.7W, TDN On)	AC 24V (Max. 24.0W/65.0W - Heater off/on) (HCP-6320HA), (Max. 20.0W) (HCP-6320A)	AC 24V (Max. 24.0W/65.0W - Heater off/on) (HCP-6230H), (Max. 20.0W) (HCP-6230)	AC 24V & DC 12V (Max. 3.5W)	AC 24V & DC 12V (Max. 6.0W)	DC 12V (Max. 4.2W)
Dimensions (WxHxD) / Weight	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)	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)	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 (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)
Additional Features	Multi Imager	Defog	Defog	Defog	Defog	Defog



WISENET HD+
SCD-6083R



WISENET HD+
SCD-6023R



WISENET HD+
SCD-6013

Preliminary

New



WISENET HD+
SCV-6083R



WISENET HD+
SCV-6023R

	2MP	2MP	2MP	2MP	2MP	
TV Lines / Resolutions	2MP	2MP	2MP	2MP	2MP	
VIDEO	Imaging Device	1/2.9" 2M CMOS	1/2.9" 2M CMOS	1/3" 2M CMOS	1/2.9" 2M CMOS	
	Horizontal Resolution	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	
	Min. Illumination	Color: 0.11Lux B/W: 0Lux (IR LED on)	Color: 0.25Lux B/W: 0Lux (IR LED on)	TBD	Color: 0.11Lux B/W: 0Lux (IR LED on)	Color: 0.25Lux B/W: 0Lux (IR LED on)
	Lens	2.8 ~ 12mm (4.3x) V/F (F1.4)	4mm Fixed (F 2.1)	2.8mm Fixed (F1.8)	2.8 ~ 12mm (4.3x) V/F (F1.4)	4mm Fixed (F 2.1)
	IR Viewable Length	20m (65.62ft)	20m (65.62ft)	-	30m (98.43ft)	20m (65.62ft)
	Angular Field of View	H: 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: 100° / V: 62° / D: 120°	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°
	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)	
	Backlight Compensation	BLC / DWDR	BLC / DWDR	DWDR / BLC / HLC	BLC / DWDR	BLC / DWDR
	Digital Noise Reduction	SSNRIV	SSNRIV	SSNRIV	SSNRIV	SSNRIV
	Motion Detection	Support	Support	Support	Support	Support
	Privacy Masking	4 Zones	4 Zones	4 Zones	4 Zones	4 Zones
	Intelligent Video Analytics	-	-	-	-	-
FEATURES	Alarm I/O	0 / 1	-	-	0 / 1	-
	Communication	NTSC/PAL : Samsung CCVC, Pelco-C (Coaxitron) AHD : ACP (AHD Coax Protocol)	NTSC/PAL : Samsung CCVC, Pelco-C (Coaxitron) AHD : ACP (AHD Coax Protocol)	AHD : ACP (AHD Coax Protocol) CVBS : Pelco-C (Coaxitron)	NTSC/PAL : Samsung CCVC, Pelco-C (Coaxitron) AHD : ACP (AHD Coax Protocol)	NTSC/PAL : Samsung CCVC, Pelco-C (Coaxitron) AHD : ACP (AHD 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)	-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	AC 24V & DC 12V (Max. 4.2W)	DC 12V (Max. 4.2W)	DC 12V (Max. 2.5W)	AC 24V & DC 12V (Max. 4.2W)	DC 12V (Max. 4.2W)
	Dimensions (WxHxD) / Weight	Ø119.8 x 98.8mm (Ø4.72" x 3.89") 304g (0.67 lb)	Ø110.0 x 86.0mm (Ø4.33" x 3.39") 242g (0.53 lb)	Ø110.0 x 86.0mm (Ø4.33" x 3.39") 242g (0.53 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



		WISENET HD+ HRD-1642	WISENET HD+ SRD-1694	WISENET HD+ SRD-1685	WISENET HD+ SRD-1684/893/493	WISENET HD+ HRD-842	WISENET HD+ SRD-894	WISENET HD+ SRD-494	WISENET HD+ HRD-442
Channel		16CH	16CH	16CH	16CH/8CH/4CH	8CH	8CH	4CH	4CH
OS	Embedded	Linux	Linux	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	120fps / 100fps	120fps / 100fps
	Max. Record Rate / NTSC	240fps@2560 x 1440 480fps@1920 x 1080	480fps@1920 x 1080	480fps@1280 x 720 192fps@1080p	240fps@1920 x 1080 (SRD-1684/893) 120fps@1920 x 1080 (SRD-493)	120fps@2560 x 1440 240fps@1920 x 1080	240fps@1920 x 1080	120fps@1920 x 1080	60fps@2560 x 1440 120fps@1920 x 1080
Recording	Max. Record Rate / PAL	200fps@2560 x 1440 400fps@1920 x 1080	400fps@1920 x 1080	400fps@1280 x 720 192fps@1080p	200fps@1920 x 1080 (SRD-1684/893) 100fps@1920 x 1080 (SRD-493)	100fps@2560 x 1440 200fps@1920 x 1080	200fps@1920 x 1080	100fps@1920 x 1080	50fps@2560 x 1440 100fps@1920 x 1080
	Compression	H.264	H.264	H.264	H.264	H.264	H.264	H.264	H.264
Video	Inputs	16CH, AHD, TVI, CVI, NTSC, PAL	16CH, AHD, NTSC, PAL	16CH, AHD, NTSC, PAL	16CH, AHD, NTSC, PAL (SRD-1684) 8CH, AHD, NTSC, PAL (SRD-893) 4CH, AHD, NTSC, PAL (SRD-493)	8CH, AHD, TVI, CVI, NTSC, PAL	8CH, AHD, NTSC, PAL	4CH, AHD, NTSC, PAL	4CH, AHD, HDTVI, HDCVI, NTSC, PAL
	Audio	16CH (Built-in 4CH)	16CH (Built-in 4CH)	16CH (Built-in 4CH)	1CH	8CH (Built-in 4CH)	8CH (Built-in 4CH)	4CH	4CH
Storage	Internal HDD	Up to 8 SATA HDDs	Up to 8 SATA HDDs	Up to 4 SATA HDDs	1 SATA HDD	Up to 4 SATA HDDs	Up to 4 SATA HDDs	Up to 2 SATA HDDs	Up to 2 SATA HDDs
	External HDD	Up to 2 Expansion Bays	Up to 2 Expansion Bays	Up to 2 Expansion Bays	-	Up to 2 Expansion Bays	Up to 2 Expansion Bays	-	-
Monitors	VGA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	HDMI	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Spot Composite	1CH (BNC)	1CH (Digital)	1CH (Digital)	-	1CH (BNC)	2CH (Digital)	2CH (Digital)	1CH (BNC)
Connections	USB	2 Ports	2 Ports	2 Ports	2 Ports	2 Ports	2 Ports	2 Ports	2 Ports
	e-SATA	1 External SATA port	2 External SATA Ports	2 External SATA Ports	-	1 External SATA port	2 External SATA Ports	-	-
	Mouse	Yes	Yes	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	Search 3 / Live Unicast 10 / Live Multicast 20	Search 3 / Live Unicast 10 / Live Multicast 20
	Transmission	4MP, 1080p, 720p, 4CIF, 2CIF, CIF	1080p, 720p, 4CIF, 2CIF, CIF	1080p, 720p, 4CIF, 2CIF, CIF	4CIF, 2CIF, CIF	4MP, 1080p, 720p, 4CIF, 2CIF, CIF	1080p, 720p, 4CIF, 2CIF, CIF	1080p, 720p, 4CIF, 2CIF, CIF	4MP, 1080P, 720P, WD1, 4CIF, CIF
	Monitoring	SmartViewer, WebViewer, Mobile Viewer, SSM	SmartViewer, WebViewer, SSM	SmartViewer, WebViewer, SSM	SmartViewer, WebViewer, Mobile Viewer, SSM	SmartViewer, WebViewer, Mobile Viewer, SSM	SmartViewer, WebViewer, SSM	SmartViewer, WebViewer, SSM	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 : 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 : 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)
	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	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



**BEYOND
SCB-5005**



**BEYOND
SCB-5003**



**BEYOND
SCB-5000**



**BEYOND
SCO-5083R**



**W7
SCO-5081R**



**BEYOND
SCD-5083**



**BEYOND
SCD-5082**



**BEYOND
SCD-5080**

	BEYOND SCB-5005	BEYOND SCB-5003	BEYOND SCB-5000	BEYOND SCO-5083R	W7 SCO-5081R	BEYOND SCD-5083	BEYOND SCD-5082	BEYOND SCD-5080
TV Lines	1000TVL	1000TVL	1000TVL	1000TVL	1000TVL	1000TVL	1000TVL	1000TVL
Imaging Device	1/3" 1.3M CMOS	1/3" 1.3M CMOS	1/3" 1.3M CMOS	1/3" 1.3M CMOS	1/3" 2M CMOS	1/3" 1.3M 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	Color: 1000TV lines	Color: 1000TV lines	Color: 1000TV lines
Min. Illumination	Color: 0.01Lux B/W: 0.001Lux	Color: 0.01Lux B/W: 0.001Lux	Color: 0.01Lux	Color: 0.02Lux B/W: 0Lux (IR LED on)	Color: 0.02Lux B/W: 0Lux (IR LED on)	Color: 0.01Lux B/W: 0.001Lux	Color: 0.02Lux B/W: 0.002Lux	Color: 0.02Lux
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)	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)	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°	0° ~ 354° / 0° ~ 68° / 0° ~ 355°
Day & Night	True (ICR)	True (ICR)	Electrical	True (ICR)	True (ICR)	True (ICR)	True (ICR)	Electrical
Backlight Compensation	WDR (120dB)	WDR (120dB)	BLC / HLC	WDR (120dB)	BLC / HLC	WDR (120dB)	BLC / HLC	BLC / HLC
Digital Noise Reduction	SSNRIV	SSNRIV	SSNRIV	SSNRIV	SSNRIV	SSNRIV	SSNRIV	SSNRIV
Motion Detection	Support	Support	Support	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)	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	Fence, (Dis)Appear, Counting	Fence, (Dis)Appear, Counting	-	-
Alarm I/O	0 / 1	0 / 1	-	0 / 1	0 / 1	0 / 1	-	-
Communication	Coax: Pelco-C (Coaxitron), RS-485	Coax: Pelco-C (Coaxitron), RS-485	Coax: Pelco-C (Coaxitron)	Coax: Pelco-C (Coaxitron), RS-485	Coax: Pelco-C (Coaxitron), RS-485	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)	-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)	-10°C ~ +55°C (+14°F ~ +131°F)
Power	AC 24V & DC 12V (Max. 6.0W)	N/P: AC 24V & DC 12V (Max. 6.0W), PH: AC 230V (Max. 6.0W)	N/P: AC 24V & DC 12V (Max. 3.7W), ND/PD: DC 12V (Max. 2.7W) PH: AC 230V (Max. 4.6W)	AC 24V & DC 12V (Max. 9.5W)	AC 24V & DC 12V (Max. 9.5W)	AC 24V & DC 12V (Max. 5.6W)	AC 24V & DC 12V (Max. 5.6W)	AC 24V & DC 12V (Max. 3.5W)
Dimensions (WxHxD) / Weight	73.1 x 67.2 x 123.9mm (2.88" x 2.65" x 4.88") 300g (0.66 lb)	N/P: 68.4 x 59.6 x 92.7mm (2.69" x 2.35" x 3.65") 210g (0.46 lb) PH: 68.3 x 59.6 x 116.6mm (2.69" x 2.35" x 4.59") 411g (0.91 lb)	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 lb)	Ø78.0 x 272.8mm (3.07" x 10.74") (Without SunShield) 1.5Kg (3.3 lb)	Ø119.8 x 101.8mm (Ø4.72" x 4.01") 535g (1.18 lb)	Ø119.8 x 98.8mm (Ø4.72" x 3.89") 420g (0.93 lb)	Ø119.8 x 101.8mm (Ø4.72" x 4.01") 520g (1.15 lb)
Additional Features	Simple Focus, P-iris, 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	Digital Image Stabilization, Defog, Tampering	Digital Image Stabilization, Defog, Tampering	Digital Image Stabilization, Defog, Tampering



BEYOND
SCD-5030



BEYOND
SCD-5020



BEYOND
SCD-5083R



W7
SCD-5081R



BEYOND
SCV-5085



BEYOND
SCV-5083



BEYOND
SCV-5082



BEYOND
SCV-5083R



W7
SCV-5081R

	BEYOND SCD-5030	BEYOND SCD-5020	BEYOND SCD-5083R	W7 SCD-5081R	BEYOND SCV-5085	BEYOND SCV-5083	BEYOND SCV-5082	BEYOND SCV-5083R	W7 SCV-5081R
TV Lines	1000TVL	1000TVL	1000TVL	1000TVL	1000TVL	1000TVL	1000TVL	1000TVL	1000TVL
Imaging Device	1/3" 1.3M CMOS	1/3" 1.3M CMOS	1/3" 1.3M CMOS	1/3" 2M CMOS	1/3" 1.3M CMOS	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	Color : 1000TV lines	Color : 1000TV lines	Color : 1000TV lines	Color : 1000TV lines	Color : 1000TV lines
Min. Illumination	Color : 0.05Lux	Color : 0.05Lux	Color : 0.02Lux B/W : 0Lux (IR LED on)	Color : 0.02Lux B/W : 0Lux (IR LED on)	Color : 0.01Lux B/W : 0.001Lux	Color : 0.01Lux B/W : 0.001Lux	Color : 0.02Lux B/W : 0.002Lux	Color : 0.02Lux B/W : 0Lux (IR LED on)	Color : 0.02Lux B/W : 0Lux (IR LED on)
Lens	6mm Fixed (F1.8)	3.6mm Fixed (F1.8)	3 ~ 10mm (3.3x) V/F (F1.4)	3 ~ 10mm (3.3x) V/F (F1.4)	3 ~ 8.5mm (2.8x) Motorized V/F (F1.2)	2.8 ~ 10.5mm (3.8x) V/F (F1.2)	3 ~ 10mm (3.3x) V/F (F1.4)	3 ~ 10mm (3.3x) V/F (F1.4)	3 ~ 10mm (3.3x) V/F (F1.4)
IR Viewable Length	-	-	30m (98.43ft)	30m (98.43ft)	-	-	-	30m (98.43ft)	30m (98.43ft)
Angular Field of View	H: 46.5° / V: 34.5° / D: 59.3°	H: 78.0° / V: 62.5° / D: 100.0°	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: 105.5° (Wide) ~ 37.1° (Tele) / V: 57.5° (Wide) ~ 21° (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)	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)
Pan / Tilt / Rotate	0° ~ 352° / 0° ~ 75° / 0° ~ 348°	0° ~ 352° / 0° ~ 75° / 0° ~ 348°	0° ~ 354° / 0° ~ 68° / 0° ~ 355°	0° ~ 354° / 0° ~ 68° / 0° ~ 355°	0° ~ 354° / 0° ~ 68° / 0° ~ 355°	0° ~ 354° / 0° ~ 68° / 0° ~ 355°	0° ~ 354° / 0° ~ 68° / 0° ~ 355°	0° ~ 354° / 0° ~ 68° / 0° ~ 355°	0° ~ 354° / 0° ~ 68° / 0° ~ 355°
Day & Night	Electrical	Electrical	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)	True (ICR)
Backlight Compensation	BLC / HLC	BLC / HLC	WDR (120dB)	BLC / HLC	WDR (120dB)	WDR (120dB)	BLC / HLC	WDR (120dB)	BLC / HLC
Digital Noise Reduction	SSNRIV	SSNRIV	SSNRIV	SSNRIV	SSNRIV	SSNRIV	SSNRIV	SSNRIV	SSNRIV
Motion Detection	Support	Support	Support	Support	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)	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	Fence, (Dis)Appear, Counting	-	Fence, (Dis)Appear, Counting	Fence, (Dis)Appear, Counting
Alarm I/O	-	-	0 / 1	0 / 1	0 / 1	0 / 1	-	0 / 1	0 / 1
Communication	Coax : Pelco-C (Coaxitron)	Coax : Pelco-C (Coaxitron)	Coax : Pelco-C (Coaxitron)	Coax : Pelco-C (Coaxitron)	Coax : Pelco-C (Coaxitron)	Coax : Pelco-C (Coaxitron)	Coax : Pelco-C (Coaxitron)	Coax : Pelco-C (Coaxitron)	Coax : Pelco-C (Coaxitron)
Environment Protection	-	-	-	-	IP66, IK10	IP66, IK10	IP66, IK10	IP66, IK10	IP66, IK10
Operating Temperature	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-30°C ~ +55°C (-22°F ~ +131°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up Above -10°C (+14°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up Above -10°C (+14°F)	-30°C ~ +55°C (-22°F ~ +131°F) * Start up Above -10°C (+14°F)	-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	DC 12V (Max. 2.8W)	DC 12V (Max. 2.8W)	AC 24V & DC 12V (Max. 6.0W)	AC 24V & DC 12V (Max. 6.0W)	AC 24V & DC 12V (Max. 5.0W)	AC 24V & DC 12V (Max. 5.6W)	AC 24V & DC 12V (Max. 5.6W)	AC 24V & DC 12V (Max. 6.0W)	AC 24V & DC 12V (Max. 6.0W)
Dimensions (WxHxD) / Weight	Ø107.6 x 84.0mm (Ø4.24" x 3.31") 371g (0.82 lb)	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)	Ø119.8 x 101.8mm (Ø4.72" x 4.01") 550g (1.21 lb)	Ø137.0 x 106.1mm (Ø5.39" x 4.18") 772g (1.7 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") 730g (1.61 lb)	Ø137.0 x 106.1mm (Ø5.39" x 4.18") 750g (1.65 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	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

DVR



**HD-SDI
SRD-1680D**

**BEYOND
SRD-1676D**

**BEYOND
SRD-1656D**

**BEYOND
SRD-876D**

**BEYOND
SRD-476D**

		16CH	16CH	16CH	8CH	4CH
Channel		16CH	16CH	16CH	8CH	4CH
OS	Embedded	Linux	Linux	Linux	Linux	Linux
Live	Frame Rate (NTSC / PAL)	480fps / 400fps	480fps / 400fps	480fps / 400fps	240fps / 200fps	120fps / 100fps
Recording	Max. Record Rate / NTSC	480fps@960H / 240fps@1080p	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@960H / 200fps@1080p	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	H.264
Video	Inputs	16CH	16CH	16CH	8CH	4CH
	Loop Outputs	-	Yes	Yes	Yes	Yes
Audio	Inputs	16CH (Built-in 4CH)	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 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	Up to 2 Expansion Bays	-
Monitors	VGA	Yes	Yes	Yes	Yes	Yes
	HDMI	Yes	Yes	Yes	Yes	Yes
	Main Composite	-	-	-	-	-
	Spot Composite	2CH (Digital)	2CH (Digital)	2CH (Digital)	2CH (Digital)	2CH (Digital 1CH / Analog 1CH)
Connections	USB	2 Ports	2 Ports	2 Ports	2 Ports	2 Ports
	e-SATA	2 External SATA Ports	2 External SATA Ports	2 External SATA Ports	2 External SATA Ports	-
	DVD Writer (Backup)	Yes	Yes	Yes	Yes	Yes
	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	4CIF, 2CIF, CIF	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	SmartViewer, WebViewer, SSM
Removable BNC Panel	Yes	-	-	-	-	
PTZ Control	Coax Protocol	Samsung CCVC, Pelco-C	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	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-3232A



SMT-2731



SMT-2233



SMT-1935



SMT-1931



SMT-1914

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

Controller / PoE Extender



SPC-7000



SPC-2000



SPC-2010



SPC-1010



SPC-300







SPC-200



SPO-100






















Features	SPC-7000	SPC-2000	SPC-2010	SPC-1010	SPC-300	SPC-200	SPO-100
	<p>Network/Analog Cameras / NVR / DVR / SSM Controller</p> <ul style="list-style-type: none"> • 5" TFT Touch LCD • Network Camera / SSM / Analog Camera / DVR Control • User-Friendly Design and Easy-to-Use Keypad • 3 Axis Joystick to Control PTZ Function • Detachable Joystick / Jogshuttle for Universe Use (Right / Left Hand Use) • USB Interface Support (1ea for SSM, 1ea for Image Snapshot / Upgrade) • Fast Camera-Tile Mapping, Config Import / Export 	<p>Network Controller</p> <ul style="list-style-type: none"> • Superior System Compatibility • 3D Joystick Control • Quick and Easy Installation • SSM Support 	<p>PTZ / DVR System Controller</p> <ul style="list-style-type: none"> • Control up to 255 PTZ Cameras / DVRs • Built-in 3 Axis Twist Zoom Joystick • Built-in Jog Shuttle • 16 x 2 Character LCD Display • RS-485 and RS-422 Interface 	<p>PTZ Control Keyboard</p> <ul style="list-style-type: none"> • Control up to 255 PTZ Cameras • Multi Protocols Supports • OSD Menu, 3D Joystick Control • RS-485 and RS-422 Interface 	<p>Coaxial Remote Controller</p> <ul style="list-style-type: none"> • Control Via Coaxial Cable or RS-485 • Camera Connected : 1 unit • Cable Extension : Max. 500m (with 5C-2V Cable) • RS-485 and RS-232C Interface 	<p>Camera Zoom & OSD Controller</p> <ul style="list-style-type: none"> • Camera Zoom In/Out, OSD Control • RS-485 Communication • Zoom Camera RJ-45 Connector Control 	<p>PoE Extender</p> <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 Circuit for Safety

LENS

Lens Description	Model	Image	Mount	Image Format	Resolution	Focal Length	Back Focal Length	Zoom Ratio	F. No	Minimum Angle of View	Operation			Dimensions (WxHxD)mm / inch	Weight (g / lb)
											Iris	Focus	Zoom		
Varifocal Lens	SLA-M2890DN		CS	1/2.8"	3Megapixel	2.8 ~ 9mm 0.11" ~ 0.35"	7.5 ~ 15.9mm 0.3" ~ 0.63"	3.2	1.2	134.2° ~ 42.7°	DC	Manual	Manual	45.0 x 51.5 x 54.3mm (1.77" x 2.03" x 2.14")	84.0g (0.19 lb)
	SLA-M2890PN										P-Iris				82.1g (0.18 lb)
	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	Manual	Manual	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"

PERIPHERALS

PTZ / Dome / Fisheye Camera housings / Mounts

 <p>SHP-3701H</p>	 <p>SHP-3701F</p>	 <p>SHD-3000F1</p>	 <p>SHD-3000F2</p>	 <p>SHD-3000F3</p>	 <p>SHD-3000F4</p>	 <p>SBP-300HM1</p>
<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 	<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>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>SBP-301HM2</p>	 <p>SBP-301HM3</p>	 <p>SBP-301HM4/300HMS</p>	 <p>SBP-300HM6</p>	 <p>SBP-300HM7</p>	 <p>SBP-300HM8</p>	 <p>SBP-122HM</p>
<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/2082R/3081/3082/3083/5082/5082R/5083/5083R/5085/6023R/6083R SCD-6081R SBP-300CM/300LM/300WM/300WM1 HCV-7070R/7010R/7020R/7030R/6080R/6070R 	<p>Hanging Mount</p> <ul style="list-style-type: none"> Aluminum Can be used with SNV-3080/3082/3120/5080/5080RV/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-301HMS) 	<p>Hanging Mount</p> <ul style="list-style-type: none"> Aluminum Can be used with PNV-9080R XNV-6080/6080R/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 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/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 SBP-300CM/300LM/300WM/300WM1 HCD-7070R/6080R/6070R
 <p>SBP-201HM</p>	 <p>SBP-300HF/301HF/302HF</p>	 <p>SBP-300TM/300TM1</p>	 <p>SBP-160TM</p>	 <p>SBP-300CM</p>	 <p>SBP-300WM1/300WM</p>	 <p>SBP-300LM</p>
<p>Hanging Mount</p> <ul style="list-style-type: none"> Aluminum Can be used with PNM-9020V 	<p>Built-in SFP Install Base for PTZ Cameras</p> <ul style="list-style-type: none"> Aluminum LC SFP port type 100Mbps Ethernet speed (Default speed : 1000Mbps) IEEE 802.3u, IEEE 802.3z Support Audio input/output, 3.5mm type 24V AC, IP66, IK10, -50°C to +55°C Can 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) 	<p>Tilt Mount for 3M/5M Fisheye Cameras</p> <ul style="list-style-type: none"> Poly Carbonate Can be used with SNF-7010VM/7010V/7010 (SBP-300TM) SNF-8010/8010VM (SBP-300TM1) 	<p>Tilt Mount</p> <ul style="list-style-type: none"> Aluminum Can be used with PNV-9080R XNV-6080/6080R/8080R SNV-5084/5084R/6084/6084R/6085R/7084/7084R/8080/8081R SCV-6081R 	<p>Ceiling Mount</p> <ul style="list-style-type: none"> Aluminum + SECC Can be used with hanging mount and outdoor PTZ 	<p>Wall Mount</p> <ul style="list-style-type: none"> Aluminum + SECC Can be used with SBP-300NB/300B/300PM/300KM 	<p>Parapet Mount</p> <ul style="list-style-type: none"> Aluminum + SECC Can be used with hanging mount and outdoor PTZ

PERIPHERALS

PTZ / Dome Camera Mounts

			 New	 New		
SBP-300WM0/120WM	SBP-300PM/302PM	SBP-300KM	SBP-310PM	SBP-310KM	SBP-300B	SBP-300NB
<p>Wall Mount</p> <ul style="list-style-type: none"> • Poly Carbonate • 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 • 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) 	<p>Pole Mount</p> <ul style="list-style-type: none"> • SECC • 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) 	<p>Corner Mount Base</p> <ul style="list-style-type: none"> • SECC • Can be used with SBP-300B/300WM1/300WM/300LM 	<p>Pole Mount</p> <ul style="list-style-type: none"> • SUS316 • Can be used with SBP-300B/300WM1/300WM/300LM 	<p>Corner Mount Base</p> <ul style="list-style-type: none"> • SUS316 • Can be used with SBP-300B/300WM1/300WM/300LM 	<p>Wall Mount Base</p> <ul style="list-style-type: none"> • Aluminum + SECC • Can be used with SBP-300PM/300KM 	<p>Installation Box</p> <ul style="list-style-type: none"> • Steel • Can be used with SBP-300WM/300WM1/300KM/300PM

Dome / Box Camera Mounts / Box Camera Housings







						
SBV-136B/158G	SBF-100B1/SBO-100B1	SHB-4300H/4300H1/4300H2/4300HP	SHB-4200/4200H	STH-200	STB-400	STB-4150V
<p>Back Box</p> <ul style="list-style-type: none"> • Aluminum • Can 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) 	<p>Back Box</p> <ul style="list-style-type: none"> • Aluminum • Can 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 	<p>Fixed Housing</p> <ul style="list-style-type: none"> • Aluminum diecasting construction • Fully cable managed bracket • Built-in fan & heater • Support three cable glands, IP66 	<p>Fixed Housing</p> <ul style="list-style-type: none"> • Support two cable glands • Built-in fan & heater : SHB-4200H 	<p>Fixed Housing</p> <ul style="list-style-type: none"> • For fixed camera application • Wall/ceiling installations • Easy to install side open type 	<p>Fixed Mount</p> <ul style="list-style-type: none"> • Bracket for STH-500/200 • Steel material 	<p>Fixed Mount</p> <ul style="list-style-type: none"> • Bracket for box cameras • Steel material

IR Illuminator / Smoked Dome Cover

				
SPI-10A/30A	SPB-IND5	SPB-IND6	SPB-VAN3	SPB-VAN4
<p>IR Illuminator</p> <ul style="list-style-type: none"> • Viewable length of 100m (328.1ft) : SPI-10A 70m (229.66ft) : SPI-30A • Radiation angle of 10° : SPI-10A / 30° : SPI-30A • IP66 	<p>Smoked Dome Cover</p> <ul style="list-style-type: none"> • Poly Carbonate + Poly Carbonate • Can be used with SCD-6081R SND-5083/5084/6083/6084/6084R/7084 	<p>Smoked Dome Cover</p> <ul style="list-style-type: none"> • Poly Carbonate + Poly Carbonate • Can be used with SCD-5080/5082/5083/5083R/6021/6083R SND-6011R SUD-5082 	<p>Smoked Dome Cover</p> <ul style="list-style-type: none"> • 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 	<p>Smoked Dome Cover</p> <ul style="list-style-type: none"> • Aluminium + Poly Carbonate • Can be used with SCV-5082/5082R/5083/5083R/5085/6023R/6083R SNV-L5083R/L6083R 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 SCP-2251H SCP-2430H SCP-3250H SCP-3430H	SCP-3120VH SNP-3120VH	SCP-2271H/2273H/ 2371H/2373H/ 3371H SNP-5300H/5320H/ 5321H/5430H/ 6201H/6320H/ 6321H/L5233H/ L6233H	SCP-2370RH SNP-6200RH SNP-6230RH SNP-6320RH SNP-L6233RH	XNP-6370RH PNP-9200RH	SCP-2270/2330/ 2370/3370 SNP-3300A/3301/ 3302/3350/ 3370/3371/ 3750/5200/ 6200	SCP-2250 SCP-2251 SCP-2430 SCP-3250 SCP-3430	SCP-2120 SCP-3120 SNP-3120	SCP-2271/2273/ 2371/2373/ 3371 SNP-5300/5320/ 5321/5430/ 6201/6320/ 6321/L5233/ L6233

Dome Cameras

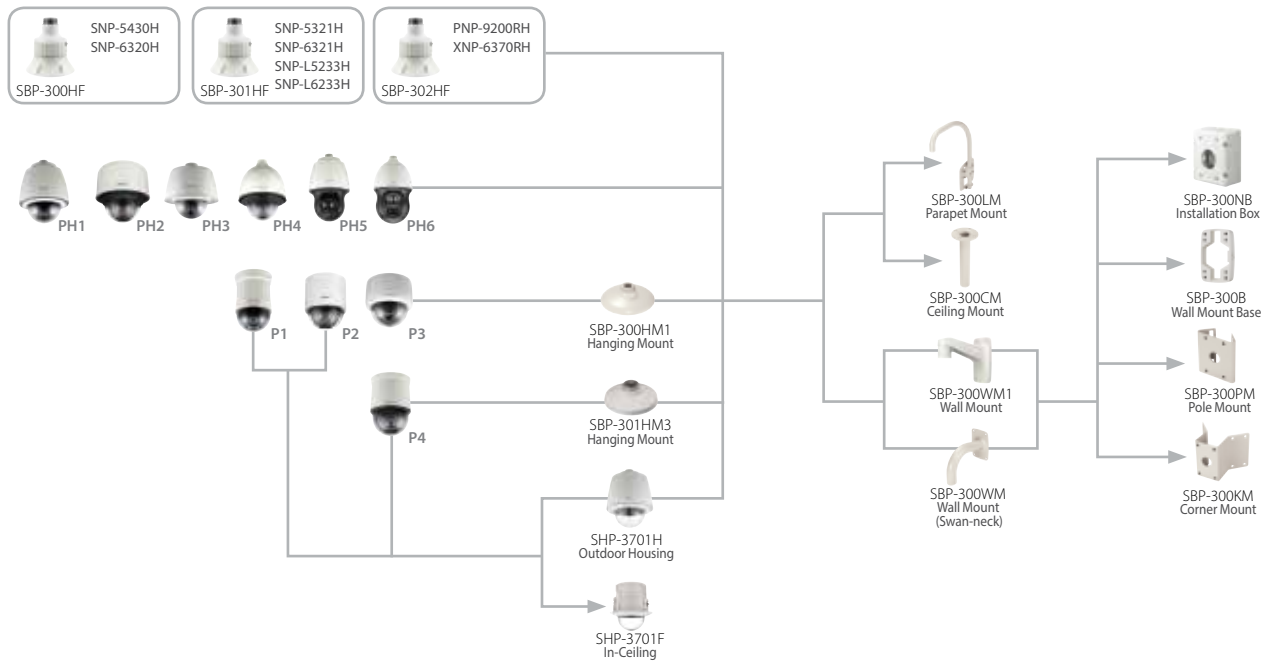
Type	Vandal-Resistant						Indoor Dome					
Shape												
Color	Ivory											
Model	SCV-2060/2080/ 3080/3120 SNV-3080/3082/ 3120/5080/ 5080R/7080/ 7080R/7082	SCV-2081/2081R/ 2082R/3081/ 3082/3083 SNV-1080/1080R	PNV-9080R XNV-6080/6080R/ 8080R SCV-6081R SNV-5084/5084R/ 6084/6084R/ 6085R/7084/ 7084R/8080/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

Fisheye / Panoramic Cameras

Type	Fisheye				Panoramic
Shape					
Color	Ivory				
Model	SNF-7010	SNF-8010	SNF-7010V SNF-7010VM	PNF-9010R PNF-9010RV PNF-9010RVM SNF-8010VM	PNM-9020V

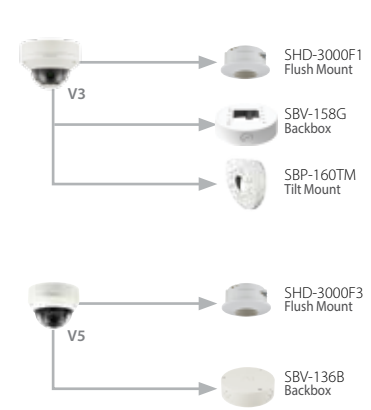
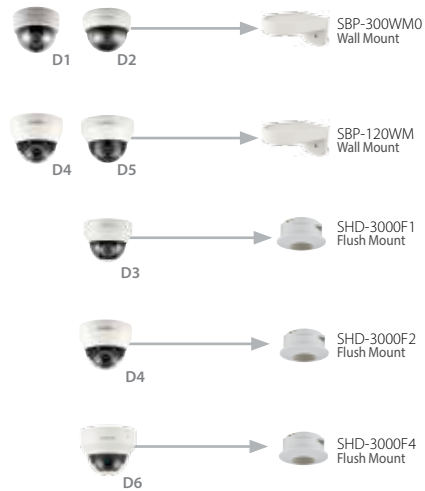
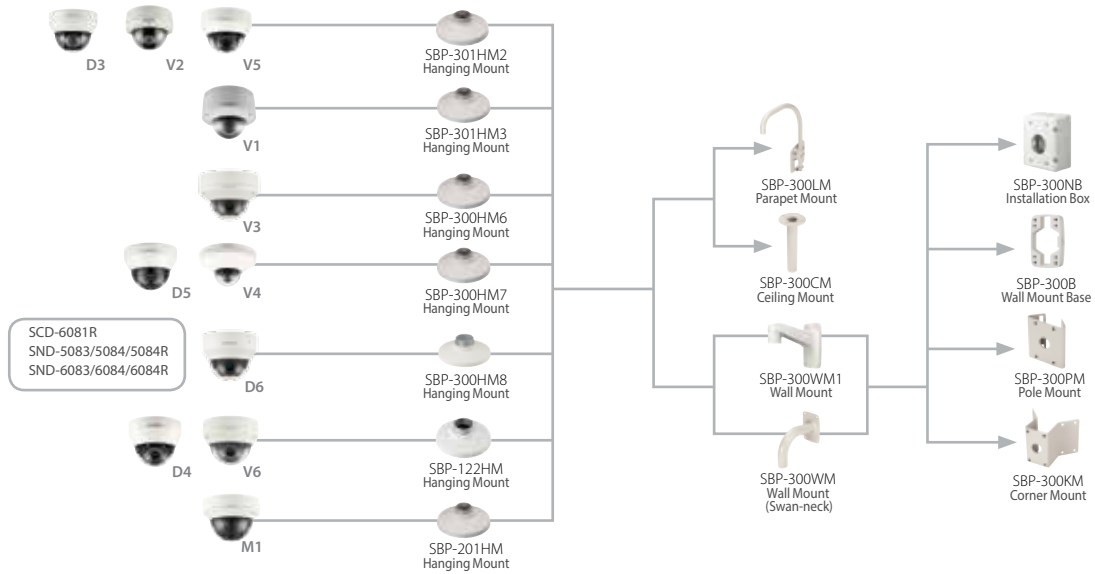
ACCESSORIES CONFIGURATION

**PTZ
ACC**



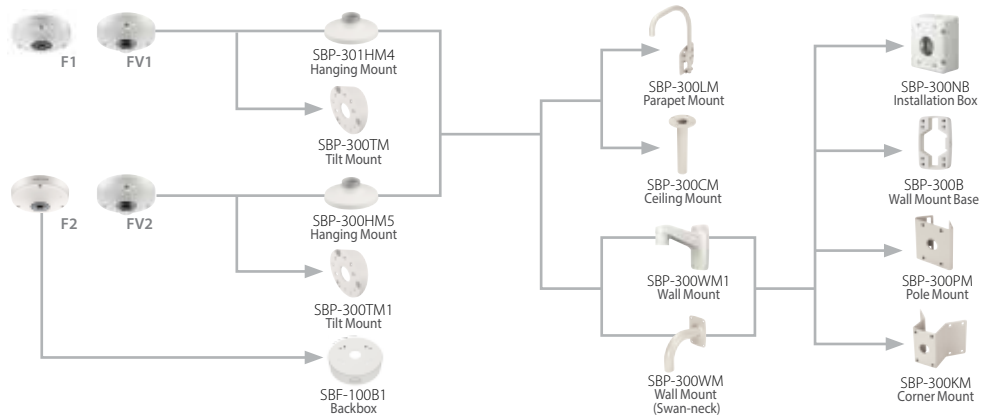
ACCESSORIES CONFIGURATION

DOME ACC



ACCESSORIES CONFIGURATION

FISHEYE ACC



BULLET ACC



PNO-9080R
XNO-8020R/8030R/8040R/
6010R/6020R/6080R
SNO-8081R



SBP-302PM
Pole Mount



Wisenet Light & Q Series
QNO-7080R/6070R/
7010R/7020R/7030R/
6010R/6020R/6030R
SNO-L6083R/L5083R
SCO-6083R
HCO-7070R/7010R/7020R/
7030R/6080R/6070R



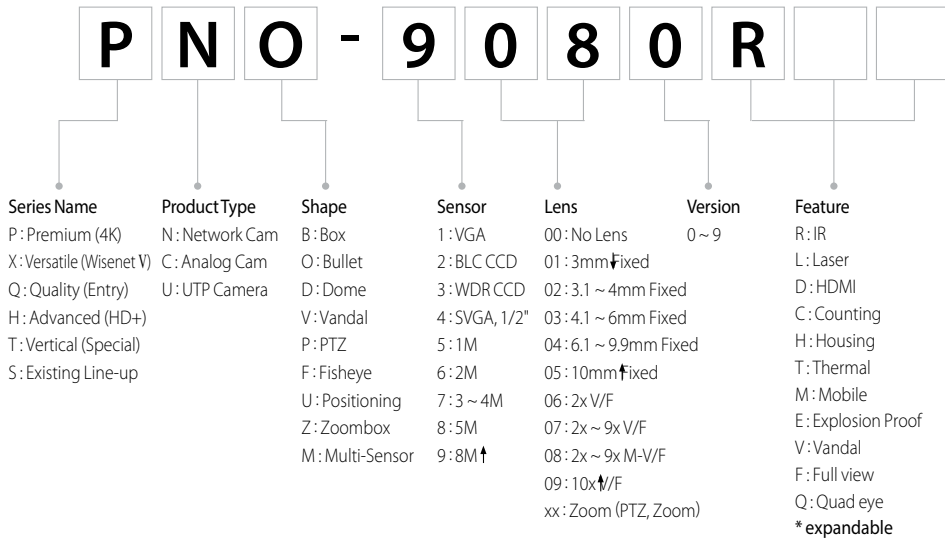
SBO-100B1
Back Box



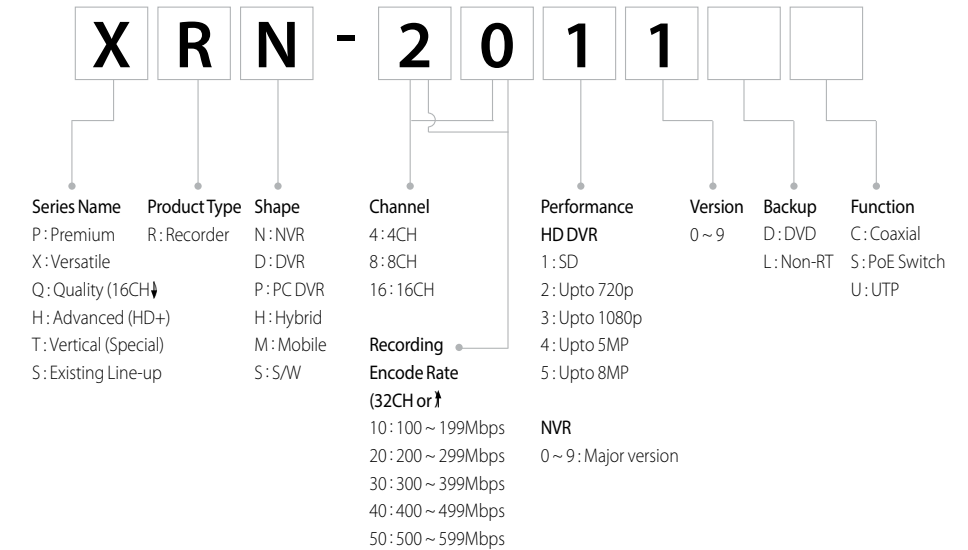
SBP-302PM
Pole Mount

PRODUCT NAMING RULE

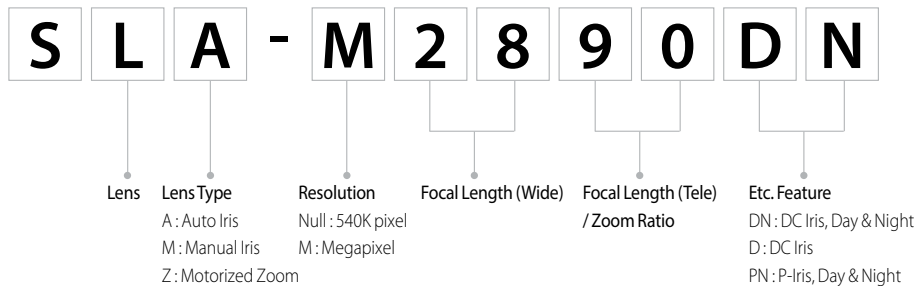
Camera



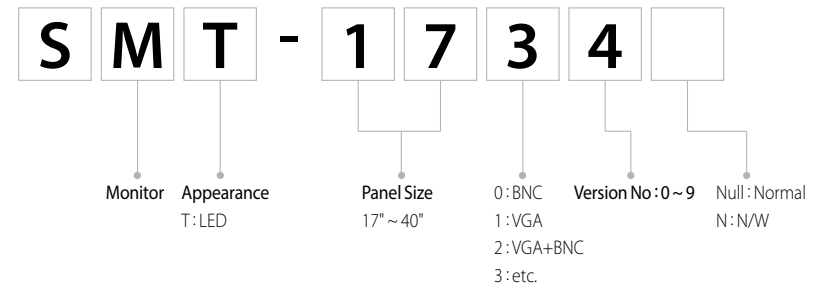
Recorder



Lens



Monitor





MEMO

A large rectangular area with rounded corners, containing 20 horizontal lines for writing a memo.

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