

Network Surveillance Products

Quick Reference Guide 

New Lineup of IPELA ENGINE Network Cameras

Powered by the IPELA ENGINE™ signal precessing system*, Sony's new generation of cameras delivers excellent HD image quality with high sensitivity and wide dynamic range.

W Series

The W Series provides rapid dome cameras that adopt the top-end signal processing system, the IPELA ENGINE PRO™. It consists of four models – two indoor normal and two outdoor unitized models – all of which provide advanced features such as a 130 dB dynamic range in FHD with View-DR technology, 60p high frame rate, 30x optical zoom, pan speed of 700°/s, Gyroscopic Image Stabilizer, Defog Image Processing, and Focal Plane Distortion Correction. The SNC-WR630 and SNC-WR600 are 1080p and 720p normal models, while the SNC-WR632 and WR602 are 1080p and 720p unitized models.



V and E Series

V Series cameras are top-of-the-line models with value-added features, while E Series cameras are economical entry models, cost-reduced versions of V Series cameras. Both series provide a variety of features such as View-DR, picture mode, H.264 CBR/VBR with high/main profiles, Image Stabilizer, easy installation (Easy Zoom, Easy Focus), and DEPA Advanced Intelligent Video Analytics. The value-added features for the V Series include a 60p high frame rate and Edge Storage (onboard recording with SD cards). Both series offer a range of models with various form factors including normal, vandal-resistant, IR ruggedized mini dome, and box-type models.



IR Ruggedized Cameras

Sony's IR ruggedized mini dome cameras are designed for use in harsh outdoor environments, where lighting conditions during the night are poor, and dust/water ingress as well as vandalism may pose challenges. This type of camera features a minimum illumination of 0 lx in B/W mode using built-in IR illuminators, an operating temperature range from -40°C (-40°F) to +50°C (+122°F), and IK10-rated vandal resistant and IP66-rated waterproof/dust-tight features. There are four models in the product range: The V Series offers the SNC-VM632R 1080p and SNC-VM602 720p models, while the E Series offers the SNC-EM632R 1080p and SNC-EM602 720p models.

Half-inch Full HD CMOS Sensor Camera

The SNC-VB635 camera is designed for use in highly demanding conditions such as transportation, safe city, and energy applications. Thanks to the high sensitivity of its 1/1.9-type 1080p Exmor™ CMOS sensor, this camera can provide high picture quality even in very low-light conditions. Other key features include a 90 dB dynamic range with View-DR technology, True Day/Night, and RS-485 external control. This camera can operate in a temperature range from -10°C (14°F) to +60°C (140°F).

C Series

The C Series offers 720/30p compact cameras that adopt an all-in-one design, incorporating a passive IR sensor, white-light LED illuminators, a speaker, and a microphone. Another convenient feature is Edge Storage (onboard recording with micro SD cards). These cameras provide high picture quality with a wide horizontal viewing angle of 120°. There are two models in the C Series: The SNC-CX600W is a wireless network model that offers easy, reliable, and stable network operation thanks to the WPS (Wi-Fi Protected Setup) standard, Wi-Fi certification, and the WMM (Wi-Fi Multimedia) standard, while the SNC-CX600 is a PoE (Power over Ethernet) model that requires just one single network cable for data transmission and power supply.



X Series

X Series cameras are 1080/30p mini dome models that are primarily designed for use in vehicles and for outdoor applications such as retail, banking, and education. Key features include a 90 dB dynamic range with View-DR technology, IK08 vandal resistance, IP66 ingress protection, and an Image Stabilizer. There are three models in the X Series: The SNC-XM632 is a perfect choice for bus video surveillance, while the SNC-XM636 and SNC-XM637 are best for train surveillance, providing high picture quality with a wide horizontal viewing angle of approximately 83° (tentative) and 113° (tentative), respectively.



360° Hemispheric-view Camera (H Series)















The SNC-HM662 is a 360° hemispheric-view dome camera with a 5 megapixel CMOS sensor. It can be used for activity monitoring and situational awareness in various environments such as retail outlets, education, and office buildings. The SNC-HM662 provides a variety of 11 view modes that include a 360° hemispheric view, 180° panoramic view, and multiple view. Other key features include IP66 ingress protection, IK10 vandal resistance, two-way audio, and Edge Storage (onboard recording with micro SD cards).

* The SNC-HM662 is not equipped with an IPELA ENGINE processor.

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
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Network Fixed Cameras

Series Name	V Series with IPELA ENGINE EX				E Series with IPELA ENGINE EX				C Series with IPELA ENGINE EX	
Model Name	SNC-VB635	SNC-VB630	SNC-VB600	SNC-VB600B	SNC-EB630	SNC-EB600	SNC-EB630B	SNC-EB600B	SNC-CX600W	SNC-CX600
										
Video Compression Format	H.264 (High/Main/Baseline Profile)/JPEG				H.264 (High/Main/Baseline Profile)/JPEG				H.264 (High/Main/Baseline Profile)/JPEG	
Multi Streaming Capability	Triple streaming				Triple streaming				Triple streaming	
Computer Display Format	HD (*) 	HD (*) 	HD (*)	HD (*)	HD (*) 	HD (*)	HD (*) 	HD (*)	HD (*)	HD (*)
Maximum Resolution	1920 x 1080	1920 x 1080	1280 x 1024	1280 x 1024	1920 x 1080	1280 x 1024	1920 x 1080	1280 x 1024	1280 x 720	1280 x 720
IR Illuminator	No	No	No	No	No	No	No	No	No	No
White-light LED Illuminator	No	No	No	No	No	No	No	No	Yes	Yes
Built-in Speaker and Microphone	No	No	No	No	No	No	No	No	Yes	Yes
Ingress Protection	No	No	No	No	No	No	No	No	No	No
Vandal Resistance	No	No	No	No	No	No	No	No	No	No
Horizontal Viewing Angle	NA	114.2° to 40.0°	100.0° to 35.7°	100.0° to 35.7°	114.2° to 40.0°	100.0° to 35.7°	114.2° to 40.0°	100.0° to 35.7°	120°	120°
Zoom Ratio	NA	2.9x optical zoom	2.9x optical zoom	2.9x optical zoom	2.9x optical zoom	2.7x optical zoom	2.9x optical zoom	2.7x optical zoom	NA	NA
Focal Length	NA	f = 2.8 mm to 8.0 mm	f = 2.8 mm to 8.0 mm	f = 2.8 mm to 8.0 mm	f = 2.8 mm to 8.0 mm	f = 3.0 mm to 8.0 mm	f = 2.8 mm to 8.0 mm	f = 3.0 mm to 8.0 mm	f = 1.83 mm	f = 1.83 mm
Lens	C/CS mount lens (not included)	CS mount varifocal lens	CS mount varifocal lens	CS mount varifocal lens	CS mount varifocal lens	CS mount varifocal lens	CS mount varifocal lens	CS mount varifocal lens	Fixed lens	Fixed lens
Image Sensor	1/1.9-type progressive scan Exmor CMOS sensor	1/2.9-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/2.9-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/2.9-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/4-type progressive scan Exmor CMOS sensor	1/4-type progressive scan Exmor CMOS sensor
Wide-D	View-DR	View-DR	View-DR	View-DR	View-DR	View-DR	View-DR	View-DR LT	View-DR LT-C	View-DR LT-C
Tone Correction	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)
Dynamic Range	Equivalent to 90 dB with View-DR technology (30 fps)	Equivalent to 90 dB with View-DR technology (30 fps)	Equivalent to 130 dB with View-DR technology (30 fps)	Equivalent to 130 dB with View-DR technology (30 fps)	Equivalent to 90 dB with View-DR technology (30 fps)	Equivalent to 130 dB with View-DR technology (30 fps)	Equivalent to 90 dB with View-DR technology (30 fps)	Equivalent to 90 dB with View-DR technology (30 fps)	More than 60 dB	More than 60 dB
Minimum Illumination (50 IRE)	Color: 0.1 lx, B/W: 0.05 lx (tentative) (F1.4, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)	Color: 0.1 lx, B/W: 0.07 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)	Color: 0.05 lx, B/W: 0.04 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)	Color: 0.05 lx, B/W: 0.04 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)	Color: 0.1 lx, B/W: 0.07 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)	Color: 0.05 lx, B/W: 0.04 lx (F1.0, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)	Color: 0.1 lx, B/W: 0.1 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)	Color: 0.05 lx, B/W: 0.05 lx (F1.0, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)	Color: 1.0 lx (F2.0, VE OFF, AGC MAX, 1/30 s, 30 fps)	Color: 1.0 lx (F2.0, VE OFF, AGC MAX, 1/30 s, 30 fps)
Maximum Frame Rate	60 fps (tentative) (H.264/JPEG) at 1280 x 1024	60 fps (H.264) at 1920 x 1080, 60 fps (JPEG) at 1280 x 720	60 fps (H.264/JPEG) at 1280 x 1024	30 fps (H.264/JPEG) at 1280 x 1024	30 fps (H.264/JPEG) at 1920 x 1080	30 fps (H.264/JPEG) at 1280 x 1024	30 fps (H.264/JPEG) at 1920 x 1080	30 fps (H.264/JPEG) at 1280 x 1024	30 fps (H.264/JPEG) at 1280 x 720	30 fps (H.264/JPEG) at 1280 x 720
Day/Night	True D/N	True D/N	True D/N	True D/N	True D/N	True D/N	Electronic D/N	Electronic D/N	No	No
Noise Reduction	XDNR	XDNR	XDNR	XDNR	XDNR	XDNR	XDNR	XDNR	XDNR	XDNR
Image Stabilizer	Yes	Yes (*)	Yes (*)	Yes (*)	Yes	Yes	Yes	Yes	Yes	Yes
Edge Storage	Yes	Yes	Yes	Yes	No	No	No	No	Yes	Yes
Card Slots	SD card x1	SD card x1	SD card x1	SD card x1	No	No	No	No	micro SD card	micro SD card
Wireless Network	No	No	No	No	No	No	No	No	IEEE802.11b/g/n	No
Analog Video/Monitor Output	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
Analytics Architecture	DEPA Advanced	DEPA Advanced (*)	DEPA Advanced (*)	DEPA Advanced (*)	DEPA Advanced	DEPA Advanced	DEPA Advanced	DEPA Advanced	DEPA Advanced	DEPA Advanced
ONVIF Conformance	Profile S	Profile S (*)	Profile S (*)	Profile S (*)	Profile S	Profile S	Profile S	Profile S	Profile S	Profile S
Power Requirements	IEEE802.3af compliant (PoE system), AC 24 V, DC 12 V	IEEE802.3af compliant (PoE system), AC 24 V, DC 12 V	IEEE802.3af compliant (PoE system), AC 24 V, DC 12 V	IEEE802.3af compliant (PoE system), AC 24 V, DC 12 V	IEEE 802.3af compliant (PoE system)	IEEE 802.3af compliant (PoE system)	IEEE 802.3af compliant (PoE system)	IEEE 802.3af compliant (PoE system)	DC 5 V	IEEE802.3af compliant (PoE system)
Power Consumption	6 W max.	6 W max.	6 W max.	6 W max.	6 W max.	6 W max.	6 W max.	6 W max.	5.0 W max.	5.0 W max.
Operating Temperature	-10°C to +60°C (14°F to 140°F)	-10°C to +50°C (14°F to 122°F)	-10°C to +50°C (14°F to 122°F)	-10°C to +50°C (14°F to 122°F)	-10°C to +50°C (14°F to 122°F)	-10°C to +50°C (14°F to 122°F)	-10°C to +50°C (14°F to 122°F)	-10°C to +50°C (14°F to 122°F)	Wired: 0°C to 50°C (32°F to 122°F) Wireless: 0°C to 40°C (32°F to 104°F)	0°C to +50°C (32°F to 122°F)
Dimensions	Approx. 79 x 74 x 145 mm (3 1/8 x 3 x 5 3/4 inches) without lens	72 x 63 x 197 mm (2 7/8 x 2 1/2 x 7 7/8 inches) with lens	72 x 63 x 197 mm (2 7/8 x 2 1/2 x 7 7/8 inches) with lens	72 x 63 x 197 mm (2 7/8 x 2 1/2 x 7 7/8 inches) with lens	72 x 63 x 199 mm (2 7/8 x 2 1/2 x 7 7/8 inches) with lens	72 x 63 x 188 mm (2 7/8 x 2 1/2 x 7 1/2 inches) with lens	72 x 63 x 199 mm (2 7/8 x 2 1/2 x 7 7/8 inches) with lens	72 x 63 x 188 mm (2 7/8 x 2 1/2 x 7 1/2 inches) with lens	Approx. 61 x 95 x 41 mm (2 13/32 x 3 3/4 x 1 5/8 inches)	Approx. 61 x 95 x 41 mm (2 13/32 x 3 3/4 x 1 5/8 inches)









(*) Definition of HD: Vertical resolution of more than 720 pixels, and streaming capability of more than 30/25 fps at 1280 x 720 pixels. (*) This is supported by the firmware version 1.2 or later. (*) This is supported by the firmware version 1.4 or later.

Network Fixed Cameras

Series Name	V Series				E Series					X Series	
Model Name	SNC-CH280	SNC-CH180	SNC-CH240	SNC-CH140	SNC-CH260	SNC-CH160	SNC-CH220	SNC-CH120	SNC-EB520	SNC-CH210	SNC-CH110
											
Video Compression Format	H.264/MPEG-4/JPEG				H.264/MPEG-4/JPEG					H.264/MPEG-4/JPEG	
Multi Streaming Capability	Dual streaming				Dual streaming					Dual streaming	
Computer Display Format	HD (*) 	HD (*)	HD (*) 	HD (*)	HD (*) 	HD (*)	HD (*) 	HD (*)	SD	HD (*) 	HD (*)
Maximum Resolution	1920 x 1440	1280 x 1024	1920 x 1440	1280 x 1024	1920 x 1440	1280 x 1024	1920 x 1440	1280 x 1024	800 x 600	2048 x 1536	1280 x 960
IR Illuminator	Yes	Yes	No	No	Yes	Yes	No	No	No	No	No
White-light LED Illuminator	No	No	No	No	No	No	No	No	No	No	No
Built-in Speaker and Microphone	No	No	No	No	No	No	No	No	No	No	No
Ingress Protection	IP66	IP66	No	No	IP66	IP66	No	No	No	No	No
Vandal Resistance	No	No	No	No	No	No	No	No	No	No	No
Horizontal Viewing Angle	88.5° to 32.3°	85.4° to 31.2°	101.2° to 47.0°	96.5° to 33.9°	88.5° to 32.3°	85.4° to 31.2°	101.2° to 47.0°	96.5° to 33.9°	89.2° to 34.6°	89°	80.7°
Zoom Ratio	2.9x optical zoom	2.9x optical zoom	2.1x optical zoom	2.9x optical zoom	2.9x optical zoom	2.9x optical zoom	2.1x optical zoom	2.9x optical zoom	2.9x optical zoom	NA	NA
Focal Length	f=3.1 mm to 8.9 mm	f=3.1 mm to 8.9 mm	f=2.8 mm to 6.0 mm	f = 2.8 mm to 8.0 mm	f=3.1 mm to 8.9 mm	f=3.1 mm to 8.9 mm	f = 2.8 mm to 6.0 mm	f = 2.8 mm to 8.0 mm	f = 3.0 mm to 8.0 mm	f = 3.3 mm	f = 2.3 mm
Lens	Built-in varifocal lens	Built-in varifocal lens	CS mount varifocal lens	CS mount varifocal lens	Built-in varifocal lens	Built-in varifocal lens	CS mount varifocal lens	CS mount varifocal lens	CS mount varifocal lens	Built-in fixed focal lens	Built-in fixed focal lens
Image Sensor	1/2.8-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/2.8-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/2.8-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/2.8-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/2.8-type progressive scan Exmor CMOS sensor	1/3.8-type progressive scan CMOS sensor
Wide-D	View-DR	View-DR	View-DR	View-DR	No	No	No	No	No	No	No
Tone Correction	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	No	No	No	No	No	No	No
Dynamic Range	Equivalent to 90 dB with View-DR technology	Equivalent to 130 dB with View-DR technology	Equivalent to 90 dB with View-DR technology	Equivalent to 130 dB with View-DR technology	More than 60 dB	More than 60 dB	More than 60 dB	More than 60 dB	More than 60 dB	NA	NA
Minimum Illumination (50 IRE)	Color: 0.40 lx, B/W: 0 lx (IR illuminator ON) (F1.2, View-DR OFF, XDNR ON-Middle, VE OFF, AGC High)	Color: 0.22 lx, B/W: 0 lx (IR illuminator ON) (F1.2, View-DR OFF, XDNR ON-Middle, VE OFF, AGC High)	Color: 0.40 lx, B/W: 0.25 lx (F1.2, View-DR OFF, XDNR ON-Middle, VE OFF, AGC High)	Color: 0.20 lx, B/W: 0.1 lx (F1.2, View-DR OFF, XDNR ON-Middle, VE OFF, AGC High)	Color: 0.7 lx, B/W: 0 lx (IR illuminator ON) (F1.2, AGC 42 dB)	Color: 0.5 lx, B/W: 0 lx (IR illuminator ON) (F1.2, AGC 42 dB)	Color: 0.7 lx, B/W: 0.45 lx (F1.2, AGC 42 dB)	Color: 0.5 lx, B/W: 0.3 lx (F1.2, AGC 42 dB)	Color: 0.47 lx, B/W: 0.27 lx (F1.0, AGC ON)	2.0 lx (AGC 38 dB)	5.0 lx (AGC 30 dB)
Maximum Frame Rate	30 fps (H.264)/20 fps (MPEG-4)/16 fps (JPEG) at 1920 x 1080	30 fps (H.264/MPEG-4/JPEG) at 1280 x 720	30 fps (H.264)/20 fps (MPEG-4)/16 fps (JPEG) at 1920 x 1080	30 fps (H.264/MPEG-4/JPEG) at 1280 x 720	30 fps (H.264)/20 fps (MPEG-4)/16 fps (JPEG) at 1920 x 1080	30 fps (H.264/MPEG-4/JPEG) at 1280 x 720	30 fps (H.264)/20 fps (MPEG-4)/16 fps (JPEG) at 1920 x 1080	30 fps (H.264/MPEG-4/JPEG) at 1280 x 720	30 fps (H.264/MPEG-4/JPEG)	30 fps (H.264/MPEG-4/JPEG) at 1280 x 720, 15 fps (H.264/MPEG-4/JPEG) at 1920 x 1080	30 fps (H.264/MPEG-4/JPEG) at 1280 x 720
Day/Night	True D/N	True D/N	True D/N	True D/N	True D/N	True D/N	True D/N	True D/N	True D/N	Electronic D/N	Electronic D/N
Noise Reduction	XDNR	XDNR	XDNR	XDNR	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Image Stabilizer	No	No	No	No	No	No	No	No	No	No	No
Edge Storage	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No
Card Slots	CF card x1	CF card x1	CF card x1	CF card x1	No	No	No	No	No	No	No
Wireless Network	Yes (option)	Yes (option)	Yes (option)	Yes (option)	No	No	Yes (option)	No	No	No	No
Analog Video/Monitor Output	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Analytics Architecture	DEPA Advanced	DEPA Advanced	DEPA Advanced	DEPA Advanced	DEPA	DEPA	DEPA	DEPA	DEPA	DEPA	DEPA
ONVIF Conformance	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Power Requirements	IEEE 802.3af compliant (PoE system), AC 24 V, DC 12 V	IEEE 802.3af compliant (PoE system), AC 24 V, DC 12 V	IEEE 802.3af compliant (PoE system), AC 24 V, DC 12 V	IEEE 802.3af compliant (PoE system), AC 24 V, DC 12 V	IEEE802.3af compliant (PoE system)	IEEE802.3af compliant (PoE system)	IEEE802.3af compliant (PoE system)	IEEE802.3af compliant (PoE system)	IEEE802.3af compliant (PoE system)	IEEE802.3af compliant (PoE system)	IEEE802.3af compliant (PoE system)
Power Consumption	33 W max.	30 W max.	11.2 W max.	9 W max.	12.9 W max.	12.9 W max.	5 W max.	5 W max.	5 W max.	2.4 W max.	2.4 W max.
Operating Temperature	-30°C to +50°C (14°F to 122°F) for AC 24 V/DC 12 V, -10°C to +50°C (14°F to 122°F) for PoE	-30°C to +50°C (14°F to 122°F) for AC 24 V/DC 12 V, -10°C to +50°C (14°F to 122°F) for PoE	-10°C to +50°C (14°F to 122°F)	-10°C to +50°C (14°F to 122°F)	-30°C to +50°C (14°F to 122°F)	-30°C to +50°C (14°F to 122°F)	-10°C to +50°C (14°F to 122°F)	-10°C to +50°C (14°F to 122°F)	-10°C to +50°C (14°F to 122°F)	0°C to +50°C (32°F to 122°F)	0°C to +50°C (32°F to 122°F)
Dimensions	ø93 x 186 mm (ø3 3/4 x 7 3/8 inches)	ø93 x 186 mm (ø3 3/4 x 7 3/8 inches)	ø72 x 63 x 197.3 mm (ø2 7/8 x 2 1/2 x 7 3/4 inches) with lens	72 x 63 x 197 mm (2 7/8 x 2 1/2 x 7 7/8 inches) with lens	ø93 x 186 mm (ø3 3/4 x 7 3/8 inches)	ø93 x 186 mm (ø3 3/4 x 7 3/8 inches)	ø72 x 63 x 197.3 mm (2 7/8 x 2 1/2 x 7 3/4 inches) with lens	72 x 63 x 197 mm (2 7/8 x 2 1/2 x 7 7/8 inches) with lens	72 x 63 x 187.8 mm (2 7/8 x 2 1/2 x 7 3/8 inches) with lens	ø44 x 93 mm (ø1 3/4 x 3 3/4 inches)	ø44 x 93 mm (ø1 3/4 x 3 3/4 inches)

(*) Definition of HD: Vertical resolution of more than 720 pixels, and streaming capability of more than 30/25 fps at 1280 x 720 pixels.











Network Mini Dome Cameras

Series Name	V Series with IPELA ENGINE EX							
Model Name	SNC-VM632R	SNC-VM602R	SNC-VM631	SNC-VM601	SNC-VM601B	SNC-VM630	SNC-VM600	SNC-VM600B
								
Video Compression Format	H.264 (High/Main/Baseline Profile)/JPEG							
Multi Streaming Capability	Triple streaming							
Computer Display Format	HD (*) Full HD 1080	HD (*)	HD (*) Full HD 1080	HD (*)	HD (*)	HD (*) Full HD 1080	HD (*)	HD (*)
Maximum Resolution	1920 x 1080	1280 x 1024	1920 x 1080	1280 x 1024	1280 x 1024	1920 x 1080	1280 x 1024	1280 x 1024
IR Illuminator	Yes	No	No	No	No	No	No	No
Built-in Speaker and Microphone	No	No	No	No	No	No	No	No
Ingress Protection	IP66	IP66	No	No	No	No	No	No
Vandal Resistance	IK10	IK10	IK10	IK10	IK10	No	No	No
Horizontal Viewing Angle	105.2° to 35.4°	105.0° to 31.6°	105.2° to 35.4°	93.0° to 31.6°	93.0° to 31.6°	105.2° to 35.4°	93.0° to 31.6°	93.0° to 31.6°
Zoom Ratio	3.0x optical zoom	3.0x optical zoom	3.0x optical zoom	3.0x optical zoom	3.0x optical zoom	3.0x optical zoom	3.0x optical zoom	3.0x optical zoom
Focal Length	f=3.0 mm to 9.0 mm	f=3.0 mm to 9.0 mm	f=3.0 mm to 9.0 mm	f=3.0 mm to 9.0 mm	f=3.0 mm to 9.0 mm	f=3.0 mm to 9.0 mm	f=3.0 mm to 9.0 mm	f=3.0 mm to 9.0 mm
Lens	Built-in varifocal lens	Built-in varifocal lens	Built-in varifocal lens	Built-in varifocal lens	Built-in varifocal lens	Built-in varifocal lens	Built-in varifocal lens	Built-in varifocal lens
360° Hemispheric/180° Panoramic View Modes	No	No	No	No	No	No	No	No
Image Sensor	1/2.9-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/2.9-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/2.9-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor
Wide-D	View-DR	View-DR	View-DR	View-DR	View-DR	View-DR	View-DR	View-DR
Tone Correction	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)
Dynamic Range	Equivalent to 90 dB with View-DR technology	Equivalent to 130 dB with View-DR technology	Equivalent to 90 dB with View-DR technology	Equivalent to 130 dB with View-DR technology	Equivalent to 130 dB with View-DR technology	Equivalent to 130 dB with View-DR technology	Equivalent to 130 dB with View-DR technology	Equivalent to 130 dB with View-DR technology
Minimum Illumination (50 IRE)	Color: 0.1 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps) B/W: 0 lx (IR Illuminator ON)	Color: 0.05 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps) B/W: 0 lx (IR Illuminator ON)	Color: 0.1 lx, B/W: 0.07 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)	Color: 0.05 lx, B/W: 0.04 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)	Color: 0.05 lx, B/W: 0.04 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)	Color: 0.1 lx, B/W: 0.07 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)	Color: 0.05 lx, B/W: 0.04 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)	Color: 0.05 lx, B/W: 0.04 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)
Maximum Frame Rate	60 fps (H.264) at 1920 x 1080, 60 fps (JPEG) at 1280 x 720	60 fps (H.264/JPEG) at 1280 x 1024	60 fps (H.264) at 1920 x 1080, 60 fps (JPEG) at 1280 x 720	60 fps (H.264/JPEG) at 1280 x 1024	30 fps (H.264/JPEG) at 1280 x 1024	60 fps (H.264) at 1920 x 1080, 60 fps (JPEG) at 1280 x 720	60 fps (H.264/JPEG) at 1280 x 1024	30 fps (H.264/JPEG) at 1280 x 1024
Day/Night	True D/N	True D/N	True D/N	True D/N	True D/N	True D/N	True D/N	True D/N
Noise Reduction	XDNR	XDNR	XDNR	XDNR	XDNR	XDNR	XDNR	XDNR
Image Stabilizer	Yes	Yes	Yes (*)	Yes (*)	Yes (*)	Yes (*)	Yes (*)	Yes (*)
Edge Storage	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Card Slots	SD card x1	SD card x1	SD card x1	SD card x1	SD card x1	SD card x1	SD card x1	SD card x1
Wireless Network	No	No	No	No	No	No	No	No
Analog Video/Monitor Output	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ONVIF Conformance	Profile S	Profile S	Profile S (*)	Profile S (*)	Profile S (*)	Profile S (*)	Profile S (*)	Profile S (*)
Power Requirements	IEEE 802.3at compliant (PoE/PoE+ system), AC 24V, DC 12V	IEEE 802.3at compliant (PoE/PoE+ system), AC 24V, DC 12V	IEEE802.3af compliant (PoE system), AC 24 V, DC 12 V	IEEE802.3af compliant (PoE system), AC 24 V, DC 12 V	IEEE802.3af compliant (PoE system), AC 24 V, DC 12 V	IEEE802.3af compliant (PoE system), AC 24 V, DC 12 V	IEEE802.3af compliant (PoE system), AC 24 V, DC 12 V	IEEE802.3af compliant (PoE system), AC 24 V, DC 12 V
Power Consumption	Max. 22 W (AC 24 V/DC 12 V, heater ON) Max. 18 W (IEEE802.3at (PoE+), heater ON) Max. 12.8 W (IEEE802.3af/at (PoE/PoE+), heater OFF)	Max. 22 W (AC 24 V/DC 12 V, heater ON) Max. 18 W (IEEE802.3at (PoE+), heater ON) Max. 12.8 W (IEEE802.3af/at (PoE/PoE+), heater OFF)	6.0 W max.	6.0 W max.	6.0 W max.	6.0 W max.	6.0 W max.	6.0 W max.
Operating Temperature	-40°C to +60°C (*) (-40°F to 140°F) (*)	-40°C to +60°C (*) (-40°F to 140°F) (*)	-10°C to +50°C (14°F to 122°F)	-10°C to +50°C (14°F to 122°F)	-10°C to +50°C (14°F to 122°F)	-10°C to +50°C (14°F to 122°F)	-10°C to +50°C (14°F to 122°F)	-10°C to +50°C (14°F to 122°F)
Dimensions	ø166 x 128 mm (ø5 7/8 x 5 1/8 inches)	ø166 x 128 mm (ø5 7/8 x 5 1/8 inches)	ø148 x 109 mm (ø5 7/8 x 4 3/8 inches)	ø148 x 109 mm (ø5 7/8 x 4 3/8 inches)	ø148 x 109 mm (ø5 7/8 x 4 3/8 inches)	ø148 x 109 mm (ø5 7/8 x 4 3/8 inches)	ø148 x 109 mm (ø5 7/8 x 4 3/8 inches)	ø148 x 109 mm (ø5 7/8 x 4 3/8 inches)

(*) Definition of HD: Vertical resolution of more than 720 pixels, and streaming capability of more than 30/25 fps at 1280 x 720 pixels. (*) This is supported by the firmware version 1.2 or later. (*) This is supported by the firmware version 1.4 or later.













(*) If the camera is installed in high-temperature environments and subjected to direct sunlight, it is highly recommended to use the optional SNCA-WP602 Weather Protector.

Network Mini Dome Cameras

Series Name	E Series with IPELA ENGINE EX						X Series with IPELA ENGINE EX			H Series
Model Name	SNC-EM632R	SNC-EM602R	SNC-EM631	SNC-EM601	SNC-EM630	SNC-EM600	SNC-XM632	SNC-XM636	SNC-XM637	SNC-HM662
										
Video Compression Format	H.264 (High/Main/Baseline Profile)/JPEG						H.264 (High/Main/Baseline Profile)/JPEG			
Multi Streaming Capability	Triple streaming						Triple streaming			Triple streaming
Computer Display Format	HD (*) Full HD 1080	HD (*)	HD (*) Full HD 1080	HD (*)	HD (*) Full HD 1080	HD (*)	HD (*) Full HD 1080	HD (*) Full HD 1080	HD (*) Full HD 1080	5MP
Maximum Resolution	1920 x 1080	1280 x 1024	1920 x 1080	1280 x 1024	1920 x 1080	1280 x 1024	1920 x 1080	1920 x 1080	1920 x 1080	2560 x 1920
IR Illuminator	Yes	Yes	No	No	No	No	No	No	No	No
Built-in Speaker and Microphone	No	No	No	No	No	No	Yes (built-in microphone)	Yes (built-in microphone)	Yes (built-in microphone)	Yes (built-in microphone)
Ingress Protection	IP66	IP66	No	No	No	No	IP66	IP66	IP66	IP66
Vandal Resistance	IK10	IK10	IK10	IK10	No	No	IK08	IK08	IK08	IK10
Horizontal Viewing Angle	105.2° to 35.4°	93.0° to 31.6°	105.2° to 35.4°	93.0° to 31.6°	105.2° to 35.4°	93.0° to 31.6°	113° (tentative)	83° (tentative)	113° (tentative)	182°
Zoom Ratio	3.0x optical zoom	3.0x optical zoom	3.0x optical zoom	3.0x optical zoom	3.0x optical zoom	3.0x optical zoom	3x digital zoom	3x digital zoom	3x digital zoom	12x digital zoom
Focal Length	f=3.0 mm to 9.0 mm	f=3.0 mm to 9.0 mm	f=3.0 mm to 9.0 mm	f=3.0 mm to 9.0 mm	f=3.0 mm to 9.0 mm	f=3.0 mm to 9.0 mm	f = 2.8 mm	f = 3.8 mm	f = 2.8 mm	f= 0.98 mm to 1.12 mm
Lens	Built-in varifocal lens	Built-in varifocal lens	Built-in varifocal lens	Built-in varifocal lens	Built-in varifocal lens	Built-in varifocal lens	Fixed lens	Fixed lens	Fixed lens	Fixed lens
360° Hemispheric/180° Panoramic View Modes	No	No	No	No	No	No	No	No	No	Yes
Image Sensor	1/2.9-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/2.9-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/2.9-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/2.9-type progressive scan Exmor CMOS sensor	1/2.9-type progressive scan Exmor CMOS sensor	1/2.9-type progressive scan Exmor CMOS sensor	1/2.5-type progressive scan CMOS sensor
Wide-D	View-DR	View-DR	View-DR	View-DR	View-DR	View-DR	View-DR	View-DR	View-DR	Yes
Tone Correction	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Yes
Dynamic Range	Equivalent to 90 dB with View-DR technology	Equivalent to 130 dB with View-DR technology	Equivalent to 90 dB with View-DR technology	Equivalent to 130 dB with View-DR technology	Equivalent to 90 dB with View-DR technology	Equivalent to 130 dB with View-DR technology	Equivalent to 90 dB with View-DR technology	Equivalent to 90 dB with View-DR technology	Equivalent to 90 dB with View-DR technology	More than 60 dB
Minimum Illumination (50 IRE)	Color: 0.1 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps) B/W: 0 lx (IR illuminator ON)	Color: 0.05 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps) B/W: 0 lx (IR illuminator ON)	Color: 0.1 lx, B/W: 0.07 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)	Color: 0.05 lx, B/W: 0.04 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)	Color: 0.1 lx, B/W: 0.07 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)	Color: 0.05 lx, B/W: 0.04 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)	Color: 0.2 lx (tentative) B/W: 0.125 lx (tentative)	Color: 0.2 lx (tentative) B/W: 0.125 lx (tentative)	Color: 0.2 lx (tentative) B/W: 0.125 lx (tentative)	Color: 0.7 lx, B/W: 0.01 lx (F2.0, AGC ON, 1/30 s, 10 fps)
Maximum Frame Rate	30 fps (H.264) at 1920 x 1080, 30 fps (JPEG) at 1280 x 720	30 fps (H.264/JPEG) at 1280 x 1024	30 fps (H.264/JPEG) at 1920 x 1080	30 fps (H.264/JPEG) at 1280 x 1024	30 fps (H.264/JPEG) at 1920 x 1080	30 fps (H.264/JPEG) at 1280 x 1024	30 fps (H.264/JPEG) at 1920 x 1080	30 fps (H.264/JPEG) at 1920 x 1080	30 fps (H.264/JPEG) at 1920 x 1080	30 fps (H.264/JPEG) at 1920 x 1080
Day/Night	True D/N	True D/N	True D/N	True D/N	True D/N	True D/N	Electronic D/N	Electronic D/N	Electronic D/N	Yes
Noise Reduction	XDNR	XDNR	XDNR	XDNR	XDNR	XDNR	XDNR	XDNR	XDNR	No
Image Stabilizer	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Edge Storage	No	No	No	No	No	No	TBD	TBD	TBD	Yes
Card Slots	No	No	No	No	No	No	TBD	TBD	TBD	micro SD card x1
Wireless Network	No	No	No	No	No	No	No	No	No	No
Analog Video/Monitor Output	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No
ONVIF Conformance	Profile S	Profile S	Profile S	Profile S	Profile S	Profile S	Profile S	Profile S	Profile S	Profile S
Power Requirements	IEEE 802.3at compliant (PoE/PoE+ system)	IEEE 802.3at compliant (PoE/PoE+ system)	IEEE 802.3af compliant (PoE system)	IEEE 802.3af compliant (PoE system)	IEEE 802.3af compliant (PoE system)	IEEE 802.3af compliant (PoE system)	IEEE802.3af compliant (PoE system)	IEEE802.3af compliant (PoE system)	IEEE802.3af compliant (PoE system)	IEEE802.3af compliant (PoE system), DC 12 V
Power Consumption	Max. 17 W (IEEE802.3at (PoE+), heater ON) Max. 11 W (IEEE802.3af/ at (PoE/PoE+), heater OFF)	Max. 17 W (IEEE802.3at (PoE+), heater ON) Max. 11 W (IEEE802.3af/ at (PoE/PoE+), heater OFF)	6 W max.	6 W max.	6 W max.	6 W max.	7.0 W max. (tentative)	7.0 W max. (tentative)	7.0 W max. (tentative)	6.0 W max.
Operating Temperature	-40°C to +50°C (*) (-40°F to 122°F) (*)	-40°C to +50°C (*) (-40°F to 122°F) (*)	-10°C to +50°C (14°F to 122°F)	-10°C to +50°C (14°F to 122°F)	-10°C to +50°C (14°F to 122°F)	-10°C to +50°C (14°F to 122°F)	-30°C to +50°C (-22°F to +122°F)	-30°C to +50°C (-22°F to +122°F)	-30°C to +50°C (-22°F to +122°F)	-30°C to +50°C (-22°F to +122°F)
Dimensions	ø166 x 129 mm (ø6 5/8 x 5 1/8 inches)	ø166 x 129 mm (ø6 5/8 x 5 1/8 inches)	ø148 x 108 mm (ø5 7/8 x 4 3/8 inches)	ø148 x 108 mm (ø5 7/8 x 4 3/8 inches)	ø148 x 108 mm (ø5 7/8 x 4 3/8 inches)	ø148 x 108 mm (ø5 7/8 x 4 3/8 inches)	Approx. ø114 x 47 mm (ø4 1/2 x 1 27/32 inches)	Approx. ø114 x 47 mm (ø4 1/2 x 1 27/32 inches)	Approx. ø114 x 47 mm (ø4 1/2 x 1 27/32 inches)	Approx. 145 x 145 x 36.3 mm (5.71 x 5.71 x 1.43 inches)















(*) Definition of HD: Vertical resolution of more than 720 pixels, and streaming capability of more than 30/25 fps at 1280 x 720 pixels. (**) If the camera is installed in high-temperature environments and subjected to direct sunlight, it is highly recommended to use the optional SNCA-WP602 Weather Protector.

Network Mini Dome Cameras

Series Name	V Series						E Series	
Model Name	SNC-DH280	SNC-DH180	SNC-DH240T	SNC-DH140T	SNC-DH240	SNC-DH140	SNC-DH260	SNC-DH160
								
Video Compression Format	H.264/MPEG-4/JPEG						H.264/MPEG-4/JPEG	
Multi Streaming Capability	Dual streaming						Dual streaming	
Computer Display Format	HD (*) 	HD (*)	HD (*) 	HD (*)	HD (*) 	HD (*)	HD (*) 	HD (*)
Maximum Resolution	1920 x 1440	1280 x 1024	1920 x 1440	1280 x 1024	1920 x 1440	1280 x 1024	1920 x 1440	1280 x 1024
IR Illuminator	Yes	No	No	No	No	No	Yes	Yes
Built-in Speaker and Microphone	No	No	No	No	No	No	No	No
Ingress Protection	IP66	IP66	No	No	No	No	IP66	IP66
Vandal Resistance	IK10	IK10	IK10	IK10	No	No	IK10	IK10
Horizontal Viewing Angle	88.5° to 32.3°	85.4° to 31.2°	88.5° to 32.3°	85.4° to 31.2°	88.5° to 32.3°	85.4° to 31.2°	88.5° to 32.3°	85.4° to 31.2°
Zoom Ratio	2.9x optical zoom	2.9x optical zoom	2.9x optical zoom	2.9x optical zoom	2.9x optical zoom	2.9x optical zoom	2.9x optical zoom	2.9x optical zoom
Focal Length	f = 3.1mm to 8.9 mm	f = 3.1mm to 8.9 mm	f = 3.1mm to 8.9 mm	f = 3.1mm to 8.9 mm	f = 3.1mm to 8.9 mm	f = 3.1mm to 8.9 mm	f=3.1 mm to 8.9 mm	f=3.1 mm to 8.9 mm
Lens	Built-in varifocal lens	Built-in varifocal lens	Built-in varifocal lens	Built-in varifocal lens	Built-in varifocal lens	Built-in varifocal lens	Built-in varifocal lens	Built-in varifocal lens
360° Hemispheric/180° Panoramic View Modes	No	No	No	No	No	No	No	No
Image Sensor	1/2.8-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/2.8-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/2.8-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/2.8-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor
Wide-D	View-DR	View-DR	View-DR	View-DR	View-DR	View-DR	No	No
Tone Correction	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	No	No
Dynamic Range	Equivalent to 90 dB with View-DR technology	Equivalent to 130 dB with View-DR technology	Equivalent to 90 dB with View-DR technology	Equivalent to 130 dB with View-DR technology	Equivalent to 90 dB with View-DR technology	Equivalent to 130 dB with View-DR technology	More than 60 dB	More than 60 dB
Minimum Illumination (50 IRE)	Color: 0.40 lx, B/W: 0 lx (IR illuminator ON) (F1.2, View-DR OFF, XDNR ON-Middle, VE OFF, AGC High)	Color: 0.22 lx, B/W: 0 lx (IR illuminator ON) (F1.2, View-DR OFF, XDNR ON-Middle, VE OFF, AGC High)	Color: 0.40 lx, B/W: 0.25 lx (F1.2, View-DR OFF, XDNR ON-Middle, VE OFF, AGC High)	Color: 0.20 lx, B/W: 0.10 lx (F1.2, View-DR OFF, XDNR ON-Middle, VE OFF, AGC High)	Color: 0.40 lx, B/W: 0.25 lx (F1.2, View-DR OFF, XDNR ON-Middle, VE OFF, AGC High)	Color: 0.20 lx, B/W: 0.10 lx (F1.2, View-DR OFF, XDNR ON-Middle, VE OFF, AGC High)	Color: 0.7 lx, B/W: 0 lx (IR illuminator ON) (F1.2, AGC 42 dB)	Color: 0.5 lx, B/W: 0 lx (IR illuminator ON) (F1.2, AGC 42 dB)
Maximum Frame Rate	30 fps (H.264)/20 fps (MPEG-4)/16 fps (JPEG) at 1920 x 1080	30 fps (H.264/MPEG-4/JPEG) at 1280 x 720	30 fps (H.264)/20 fps (MPEG-4)/16 fps (JPEG) at 1920 x 1080	30 fps (H.264/MPEG-4/JPEG) at 1280 x 720	30 fps (H.264)/20 fps (MPEG-4)/16 fps (JPEG) at 1920 x 1080	30 fps (H.264/MPEG-4/JPEG) at 1280 x 720	30 fps (H.264)/20 fps (MPEG-4)/16 fps (JPEG) at 1920 x 1080	30 fps (H.264/MPEG-4/JPEG) at 1280 x 720
Day/Night	True D/N	True D/N	True D/N	True D/N	True D/N	True D/N	True D/N	True D/N
Noise Reduction	XDNR	XDNR	XDNR	XDNR	XDNR	XDNR	Yes	Yes
Image Stabilizer	No	No	No	No	No	No	No	No
Edge Storage	No	No	No	No	No	No	No	No
Card Slots	No	No	No	No	No	No	No	No
Wireless Network	No	No	No	No	No	No	No	No
Analog Video/Monitor Output	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ONVIF Conformance	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Power Requirements	IEEE 802.3af compliant (PoE system), AC 24 V, DC 12 V	IEEE 802.3af compliant (PoE system), AC 24 V, DC 12 V	IEEE 802.3af compliant (PoE system), AC 24 V, DC 12 V	IEEE 802.3af compliant (PoE system), AC 24 V, DC 12 V	IEEE 802.3af compliant (PoE system), AC 24 V, DC 12 V	IEEE 802.3af compliant (PoE system), AC 24 V, DC 12 V	IEEE802.3af compliant (PoE system)	IEEE802.3af compliant (PoE system)
Power Consumption	29 W max.	28 W max.	10.2 W max.	8.0 W max.	10.2 W max.	8 W max.	12.9 W max.	12.9 W max.
Operating Temperature	-30°C to +50°C (14°F to 122°F) for AC 24 V/DC 12 V, -10°C to +50°C (14°F to 122°F) for PoE	-30°C to +50°C (14°F to 122°F) for AC 24 V/DC 12 V, -10°C to +50°C (14°F to 122°F) for PoE	-10°C to +50°C (14°F to 122°F)	-10°C to +50°C (14°F to 122°F)	-10°C to +50°C (14°F to 122°F)	-10°C to +50°C (14°F to 122°F)	-30 to +50°C (-22 to +122°F)	-30 to +50°C (-22 to +122°F)
Dimensions	ø166 x 119 mm (ø6 5/8 x 4 3/4 inches)	ø166 x 119 mm (ø6 5/8 x 4 3/4 inches)	ø140 x 119 mm (ø5 5/8 x 4 3/4 inches)	ø140 x 119 mm (ø5 5/8 x 4 3/4 inches)	ø140 x 118 mm (ø5 5/8 x 4 3/4 inches)	ø140 x 118 mm (ø5 5/8 x 4 3/4 inches)	ø166 x 119 mm (ø6 5/8 x 4 3/4 inches)	ø166 x 119 mm (ø6 5/8 x 4 3/4 inches)

(*) Definition of HD: Vertical resolution of more than 720 pixels, and streaming capability of more than 30/25 fps at 1280 x 720 pixels.

















Network Mini Dome Cameras

Series Name	E Series						X Series			
	SNC-DH220T	SNC-DH120T	SNC-EM521	SNC-DH220	SNC-DH120	SNC-EM520	SNC-DH210T	SNC-DH110T	SNC-DH210	SNC-DH110
Model Name										
Video Compression Format	H.264/MPEG-4/JPEG						H.264/MPEG-4/JPEG			
Multi Streaming Capability	Dual streaming						Dual streaming			
Computer Display Format	HD (*) 	HD (*)	SD	HD (*) 	HD (*)	SD	HD (*) 	HD (*)	HD (*) 	HD (*)
Maximum Resolution	1920 x 1440	1280 x 1024	800 x 600	1920 x 1440	1280 x 1024	800 x 600	2048 x 1536	1280 x 960	2048 x 1536	1280 x 960
IR Illuminator	No	No	No	No	No	No	No	No	No	No
Built-in Speaker and Microphone	No	No	No	No	No	No	No	No	No	No
Ingress Protection	No	No	No	No	No	No	No	No	No	No
Vandal Resistance	IK10	IK10	IK10	No	No	No	IK10	IK10	No	No
Horizontal Viewing Angle	88.5° to 32.3°	85.4° to 31.2°	85.4° to 31.2°	88.5° to 32.3°	85.4° to 31.2°	85.4° to 31.2°	86°	79°	88°	80.7°
Zoom Ratio	2.9x optical zoom	2.9x optical zoom	2.9x optical zoom	2.9x optical zoom	2.9x optical zoom	2.9x optical zoom	NA	NA	NA	NA
Focal Length	f=3.1 mm to 8.9 mm	f=3.1 mm to 8.9 mm	f=3.1 mm to 8.9 mm	f=3.1 mm to 8.9 mm	f=3.1 mm to 8.9 mm	f=3.1 mm to 8.9 mm	f = 3.3 mm	f = 2.34 mm	f = 3.3 mm	f = 2.34 mm
Lens	Built-in varifocal lens	Built-in varifocal lens	Built-in varifocal lens	Built-in varifocal lens	Built-in varifocal lens	Built-in varifocal lens	Built-in fixed focal lens	Built-in fixed focal lens	Built-in fixed focal lens	Built-in fixed focal lens
360° Hemispheric/180° Panoramic View Modes	No	No	No	No	No	No	No	No	No	No
Image Sensor	1/2.8-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/2.8-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/2.8-type progressive scan Exmor CMOS sensor	1/3.8-type progressive scan CMOS sensor	1/2.8-type progressive scan Exmor CMOS sensor	1/3.8-type progressive scan CMOS sensor
Wide-D	No	No	No	No	No	No	No	No	No	No
Tone Correction	No	No	No	No	No	No	No	No	No	No
Dynamic Range	More than 60 dB	More than 60 dB	More than 60 dB	More than 60 dB	More than 60 dB	More than 60 dB	NA	NA	NA	NA
Minimum Illumination (50 IRE)	Color: 0.7 lx, B/W: 0.45 lx (F1.2, AGC 42 dB)	Color: 0.5 lx, B/W: 0.3 lx (F1.2, AGC 42 dB)	Color: 0.5 lx, B/W: 0.3 lx (F1.2, AGC 42 dB)	Color: 0.7 lx, B/W: 0.45 lx (F1.2, AGC 42 dB)	Color: 0.5 lx, B/W: 0.3 lx (F1.2, AGC 42 dB)	Color: 0.5 lx, B/W: 0.3 lx (F1.2, AGC 42 dB)	2.3 lx (AGC 38 dB)	5.5 lx (AGC 30 dB)	2.0 lx (AGC 38 dB)	5.0 lx (AGC 30 dB)
Maximum Frame Rate	30 fps (H.264)/20 fps (MPEG-4)/16 fps (JPEG) at 1920 x 1080	30 fps (H.264/MPEG-4/JPEG) at 1280 x 720	30 fps (H.264/MPEG-4/JPEG)	30 fps (H.264)/20 fps (MPEG-4)/16 fps (JPEG) at 1920 x 1080	30 fps (H.264/MPEG-4/JPEG) at 1280 x 720	30 fps (H.264/MPEG-4/JPEG)	30 fps (H.264/MPEG-4/JPEG) at 1280 x 720, 15 fps (H.264/MPEG-4/JPEG) at 1920 x 1080	30 fps (H.264/MPEG-4/JPEG) at 1280 x 960/720	30 fps (H.264/MPEG-4/JPEG) at 1280 x 720, 15 fps (H.264/MPEG-4/JPEG) at 1920 x 1080	30 fps (H.264/MPEG-4/JPEG) at 1280 x 960/720
Day/Night	True D/N	True D/N	True D/N	True D/N	True D/N	True D/N	Electronic D/N	Electronic D/N	Electronic D/N	Electronic D/N
Noise Reduction	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Image Stabilizer	No	No	No	No	No	No	No	No	No	No
Edge Storage	No	No	No	No	No	No	No	No	No	No
Card Slots	No	No	No	No	No	No	No	No	No	No
Wireless Network	No	No	No	No	No	No	No	No	No	No
Analog Video/Monitor Output	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ONVIF Conformance	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Power Requirements	IEEE802.3af compliant (PoE system)	IEEE802.3af compliant (PoE system)	IEEE802.3af compliant (PoE system)	IEEE802.3af compliant (PoE system)	IEEE802.3af compliant (PoE system)	IEEE802.3af compliant (PoE system)	IEEE802.3af compliant (PoE system)	IEEE802.3af compliant (PoE system)	IEEE802.3af compliant (PoE system)	IEEE802.3af compliant (PoE system)
Power Consumption	6.0 W max.	6.0 W max.	6.0 W max.	6.0 W max.	6.0 W max.	6.0 W max.	2.4 W max.	2.4 W max.	2.4 W max.	2.4 W max.
Operating Temperature	-10°C to +50°C (14°F to 122°F)	-10°C to +50°C (14°F to 122°F)	-10°C to +50°C (14°F to 122°F)	-10°C to +50°C (14°F to 122°F)	-10°C to +50°C (14°F to 122°F)	-10°C to +50°C (14°F to 122°F)	0°C to +50°C (32°F to 122°F)	0°C to +50°C (32°F to 122°F)	0°C to +50°C (32°F to 122°F)	0°C to +50°C (32°F to 122°F)
Dimensions	ø140 x 119 mm (ø5 5/8 x 4 3/4 inches)	ø140 x 119 mm (ø5 5/8 x 4 3/4 inches)	ø140 x 119 mm (ø5 5/8 x 4 3/4 inches)	ø140 x 118 mm (ø5 5/8 x 4 3/4 inches)	ø140 x 118 mm (ø5 5/8 x 4 3/4 inches)	ø140 x 118 mm (ø5 5/8 x 4 3/4 inches)	ø106 x 56.5 mm (ø4 1/4 x 2 1/4 inches)	ø106 x 56.5 mm (ø4 1/4 x 2 1/4 inches)	ø106 x 50.5 mm (ø4 1/4 x 2 inches)	ø106 x 50.5 mm (ø4 1/4 x 2 inches)

(*) Definition of HD: Vertical resolution of more than 720 pixels, and streaming capability of more than 30/25 fps at 1280 x 720 pixels.

Network Rapid Dome and PTZ Cameras







P/T/Z: Pan/Tilt/Zoom

Series Name	W Series with IPELA ENGINE PRO				E Series					
Model Name	SNC-WR632	SNC-WR602	SNC-WR630	SNC-WR600	SNC-ER585	SNC-ER585H	SNC-ER580	SNC-EP580	SNC-ER550	SNC-EP550
										
Video Compression Format	H.264 (High/Main/Baseline Profile)/JPEG				H.264/MPEG-4/JPEG					
Multi Streaming Capability	Triple streaming				Dual streaming					
Computer Display Format	HD (*) 	HD (*)	HD (*) 	HD (*)	HD (*) 	HD (*) 	HD (*) 	HD (*) 	HD (*)	HD (*)
Maximum Resolution	1920 x 1080	1280 x 1024	1920 x 1080	1280 x 1024	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1280 x 720	1280 x 720
Ingress Protection	IP66	IP66	No	No	IP66	IP66	No	No	No	No
Vandal Resistance	IK10	IK10	No	No	IK10	IK10	No	No	No	No
Horizontal Viewing Angle	65.0° to 2.3°	65.0° to 2.3°	65.0° to 2.3°	65.0° to 2.3°	59.5° to 2.1°	59.5° to 2.1°	55.4° to 2.9°	55.4° to 2.9°	55.9° to 2.1°	55.9° to 2.1°
Zoom Ratio	30x optical zoom	30x optical zoom	30x optical zoom	30x optical zoom	30x optical zoom	30x optical zoom	20x optical zoom	20x optical zoom	28x optical zoom	28x optical zoom
Focal Length	f = 4.3 mm to 129.0 mm	f = 4.3 mm to 129.0 mm	f = 4.3 mm to 129.0 mm	f = 4.3 mm to 129.0 mm	f = 4.3 mm to 129.0 mm	f = 4.3 mm to 129.0 mm	f = 4.7 mm to 94.0 mm	f = 4.7 mm to 94.0 mm	f = 3.5 mm to 98 mm	f = 3.5 mm to 98 mm
Lens	Auto-focus zoom lens	Auto-focus zoom lens	Auto-focus zoom lens	Auto-focus zoom lens	Auto-focus zoom lens	Auto-focus zoom lens	Auto-focus zoom lens	Auto-focus zoom lens	Auto-focus zoom lens	Auto-focus zoom lens
Image Sensor	1/2.8-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/2.8-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/2.8-type progressive scan Exmor CMOS sensor	1/2.8-type progressive scan Exmor CMOS sensor	1/2.8-type progressive scan Exmor CMOS sensor	1/2.8-type progressive scan Exmor CMOS sensor	1/4-type progressive scan Exmor CMOS sensor	1/4-type progressive scan Exmor CMOS sensor
Wide-D	View-DR	View-DR	View-DR	View-DR	DynaView™	DynaView	DynaView	DynaView	DynaView	DynaView
Tone Correction	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	No	No	No	No	No	No
Dynamic Range	Equivalent to 130 dB with View-DR technology (30 fps)	Equivalent to 130 dB with View-DR technology (30 fps)	Equivalent to 130 dB with View-DR technology (30 fps)	Equivalent to 130 dB with View-DR technology (30 fps)	86 dB (theoretical) with DynaView technology (30 fps)	86 dB (theoretical) with DynaView technology (30 fps)	86 dB (theoretical) with DynaView technology (30 fps)	86 dB (theoretical) with DynaView technology (30 fps)	86 dB (theoretical) with DynaView technology (30 fps)	86 dB (theoretical) with DynaView technology (30 fps)
Minimum Illumination (50 IRE)	Color: 1.4 lx, B/W: 0.15 lx (F1.6, View-DR OFF/VE OFF, AGC ON, 1/30 s, 30 fps)	Color: 1.0 lx, B/W: 0.1 lx (tentative) (F1.6, View-DR OFF/VE OFF, AGC ON, 1/30 s, 30 fps)	Color: 1.4 lx, B/W: 0.15 lx (F1.6, View-DR OFF/VE OFF, AGC ON, 1/30 s, 30 fps)	Color: 1.0 lx, B/W: 0.1 lx (tentative) (F1.6, View-DR OFF/VE OFF, AGC ON, 1/30 s, 30 fps)	Color: 1.7 lx, B/W: 0.3 lx (F1.6, AGC ON, 1/30 s)	Color: 1.7 lx, B/W: 0.3 lx (F1.6, AGC ON, 1/30 s)	Color: 1.7 lx, B/W: 0.3 lx (F1.6, AGC ON, 1/30 s)	Color: 1.7 lx, B/W: 0.3 lx (F1.6, AGC ON, 1/30 s)	Color: 1.0 lx, B/W: 0.1 lx (F1.35, AGC ON, 1/30 s)	Color: 1.0 lx, B/W: 0.1 lx (F1.35, AGC ON, 1/30 s)
Maximum Frame Rate	60 fps (H.264/JPEG) at 1920 x 1080	60 fps (H.264/JPEG) at 1920 x 1080	60 fps (H.264/JPEG) at 1920 x 1080	60 fps (H.264/JPEG) at 1920 x 1080	30 fps (H.264)/20 fps (MPEG-4)/16 fps (JPEG) (*) at 1920 x 1080	30 fps (H.264)/20 fps (MPEG-4)/16 fps (JPEG) (*) at 1920 x 1080	30 fps (H.264)/20 fps (MPEG-4)/16 fps (JPEG) (*) at 1920 x 1080	30 fps (H.264)/20 fps (MPEG-4)/16 fps (JPEG) (*) at 1920 x 1080	30 fps (H.264/MPEG-4/JPEG) at 1280 x 720	30 fps (H.264/MPEG-4/JPEG) at 1280 x 720
Day/Night	True D/N	True D/N	True D/N	True D/N	True D/N	True D/N	True D/N	True D/N	True D/N	True D/N
Noise Reduction	XDNR	XDNR	XDNR	XDNR	Yes	Yes	Yes	Yes	Yes	Yes
Image Stabilizer	Gyroscopic Image Stabilizer	Gyroscopic Image Stabilizer	Gyroscopic Image Stabilizer	Gyroscopic Image Stabilizer	Yes	Yes	No	No	No	No
Defog Image Processing	Yes	Yes	Yes	Yes	No	No	No	No	No	No
Edge Storage	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Card Slots	SD card x1	SD card x1	SD card x1	SD card x1	SD/SDHC card x1	SD/SDHC card x1	SD/SDHC card x1	SD/SDHC card x1	SD/SDHC card x1	SD/SDHC card x1
Wireless Network	No	No	No	No	No	No	No	No	No	No
Analog Video/Monitor Output	Yes	Yes	Yes	Yes	No	No	No	No	No	No
"Rapid Dome" or "PTZ"	Rapid Dome	Rapid Dome	Rapid Dome	Rapid Dome	Rapid Dome	Rapid Dome	Rapid Dome	PTZ	Rapid Dome	PTZ
Pan/Tilt Angle (Powered)	360° endless rotation/220°	360° endless rotation/220°	360° endless rotation/220°	360° endless rotation/220°	360° endless rotation/210°	360° endless rotation/210°	360° endless rotation/210°	340°/105°	360° endless rotation/210°	340°/105°
Pan Speed	700°/s (max.)	700°/s (max.)	700°/s (max.)	700°/s (max.)	300°/s (max.)	300°/s (max.)	300°/s (max.)	300°/s (max.)	300°/s (max.)	300°/s (max.)
Analytics Architecture	DEPA Advanced	DEPA Advanced	DEPA Advanced	DEPA Advanced	DEPA	DEPA	DEPA	DEPA	DEPA	DEPA
ONVIF Conformance	Profile S	Profile S	Profile S	Profile S	Profile S	Profile S	Yes	Yes	Yes	Yes
Power Requirements	HPoE+ (*), AC 24 V	HPoE+ (*), AC 24 V	IEEE802.3at compliant (HPoE system), AC 24 V, DC 12 V	IEEE802.3at compliant (HPoE system), AC 24 V, DC 12 V	AC 24 V	AC 24 V	IEEE 802.3at compliant (HPoE system), AC 24 V	IEEE 802.3at compliant (HPoE system), AC 24 V	IEEE 802.3at compliant (HPoE system), AC 24 V	IEEE 802.3at compliant (HPoE system), AC 24 V
Power Consumption	80 W max.	80 W max.	25 W max.	25 W max.	75 W max. (heater ON)/25 W max. (heater OFF)	25 W max.	25 W max.	25 W max.	25 W max.	25 W max.
Operating Temperature	AC 24 V: -40°C to +50°C (-40°F to +122°F) HPoE+ (*): -5°C to +50°C (23°F to 122°F)	AC 24 V: -40°C to +50°C (-40°F to +122°F) HPoE+ (*): -5°C to +50°C (23°F to 122°F)	-5°C to +50°C (23°F to 122°F)	-5°C to +50°C (23°F to 122°F)	-40°C to +60°C (-40°F to +140°F)	-5°C to +65°C (23°F to 149°F)	-5°C to +50°C (23°F to 122°F)	-5°C to +50°C (23°F to 122°F)	-5°C to +50°C (23°F to 122°F)	-5°C to +50°C (23°F to 122°F)
Dimensions	ø222.0 x 324.1 mm (ø8 3/4 x 12 7/8 inches)	ø222.0 x 324.1 mm (ø8 3/4 x 12 7/8 inches)	ø146.3 x 205.0 mm (ø5 7/8 x 8 1/8 inches)	ø146.3 x 205.0 mm (ø5 7/8 x 8 1/8 inches)	ø222.0 x 323.9 mm (ø8 3/4 x 12 7/8 inches)	ø222.0 x 323.9 mm (ø8 3/4 x 12 7/8 inches)	ø147.4 x 190.9 mm (ø5 7/8 x 7 5/8 inches)	ø147.4 x 190.9 mm (ø5 7/8 x 7 5/8 inches)	ø147.4 x 190.9 mm (ø5 7/8 x 7 5/8 inches)	ø147.4 x 190.9 mm (ø5 7/8 x 7 5/8 inches)

(*) Definition of HD: Vertical resolution of more than 720 pixels, and streaming capability of more than 30/25 fps at 1280 x 720 pixels. (**) When using DynaView technology, the maximum frame rate becomes 15 fps. (***) Power supply is generated from PowerDesine® 9501G by using 4 wires.

Network Rapid Dome and PTZ Cameras






P/T/Z: Pan/Tilt/Zoom

Series Name	E Series					
Model Name	SNC-ER520/ER521 ^(**)	SNC-EP520/EP521 ^(**)	SNC-RH164	SNC-RH124	SNC-RS86N/RS86P ^(**)	SNC-RS46N/RS46P ^(**)
						
Video Compression Format	H.264/MPEG-4/JPEG		H.264/MPEG-4/JPEG		H.264/MPEG-4/JPEG	
Multi Streaming Capability	Dual streaming		Dual streaming		Triple streaming	
Computer Display Format	SD	SD	HD ^(*)	HD ^(*)	SD	SD
Maximum Resolution	720 x 480/720 x 576 ^(**)	720 x 480/720 x 576 ^(**)	1280 x 720	1280 x 720	720 x 480/720 x 576 ^(**)	720 x 480/720 x 576 ^(**)
Ingress Protection	No	No	IP66	No	IP66	No
Vandal Resistance	No	No	IK10	No	IK10	No
Horizontal Viewing Angle	57.8° to 1.7°	57.8° to 1.7°	50° to 5.4°	50° to 5.4°	57.8° to 1.7°	57.8° to 1.7°
Zoom Ratio	36x optical zoom	36x optical zoom	10x optical zoom	10x optical zoom	36x optical zoom	36x optical zoom
Focal Length	f = 3.4 mm to 122.4 mm	f = 3.4 mm to 122.4 mm	f = 5.1 mm to 51 mm	f = 5.1 mm to 51 mm	f = 3.4 mm to 122.4 mm	f = 3.4 mm to 122.4 mm
Lens	Auto-focus zoom lens	Auto-focus zoom lens	Auto-focus zoom lens	Auto-focus zoom lens	Auto-focus zoom lens	Auto-focus zoom lens
Image Sensor	1/4-type EXview HAD CCD	1/4-type EXview HAD CCD	1/3-type HD CMOS sensor	1/3-type HD CMOS sensor	1/4-type EXview HAD CCD	1/4-type EXview HAD CCD
Wide-D	DynaView	DynaView	Yes	Yes	DynaView	DynaView
Tone Correction	No	No	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)
Dynamic Range	92 dB (theoretical) with DynaView technology	92 dB (theoretical) with DynaView technology	NA	NA	NA	NA
Minimum Illumination (50 IRE)	Color: 1.4 lx, B/W: 0.15 lx (F1.6, AGC ON, 1/60 s/1/50 s)	Color: 1.4 lx, B/W: 0.15 lx (F1.6, AGC ON, 1/60 s/1/50 s)	Color: 2.1 lx, B/W: 0.19 lx (XDNR ON, VE ON, Slow Shutter Off)	Color: 1.9 lx, B/W: 0.17 lx (XDNR ON, VE ON, Slow Shutter Off)	Color: 0.8 lx, B/W: 0.09 lx (XDNR ON, VE ON, Slow Shutter Off)	Color: 0.7 lx, B/W: 0.08 lx (XDNR ON, VE ON, Slow Shutter Off)
Maximum Frame Rate	30 fps/25 fps (H.264/MPEG-4/JPEG) ^(**)	30 fps/25 fps (H.264/MPEG-4/JPEG) ^(**)	30 fps (H.264/MPEG-4/JPEG) at 1280 x 720	30 fps (H.264/MPEG-4/JPEG) at 1280 x 720	30 fps/25 fps (H.264/MPEG-4/JPEG) ^(**)	30 fps/25 fps (H.264/MPEG-4/JPEG) ^(**)
Day/Night	True D/N	True D/N	True D/N	True D/N	True D/N	True D/N
Noise Reduction	Yes	Yes	XDNR	XDNR	XDNR	XDNR
Image Stabilizer	No	No	No	No	No	No
Defog Image Processing	No	No	No	No	No	No
Edge Storage	Yes	Yes	Yes	Yes	Yes	Yes
Card Slots	SD/SDHC card x1	SD/SDHC card x1	CF card x1	CF card x1	CF card x1	CF card x1
Wireless Network	No	No	Yes (option)	Yes (option)	Yes (option)	Yes (option)
Analog Video/Monitor Output	No	No	Yes	Yes	Yes	Yes
"Rapid Dome" or "PTZ"	Rapid Dome	PTZ	Rapid Dome	Rapid Dome	Rapid Dome	Rapid Dome
Pan/Tilt Angle (Powered)	360° endless rotation/210°	340°/105°	360° endless rotation/210°	360° endless rotation/210°	360° endless rotation/210°	360° endless rotation/210°
Pan Speed	300°/s (max.)	300°/s (max.)	400°/s (max.)	400°/s (max.)	400°/s (max.)	400°/s (max.)
Analytics Architecture	DEPA	DEPA	DEPA Advanced	DEPA Advanced	DEPA Advanced	DEPA Advanced
ONVIF Conformance	Yes	Yes	Yes	Yes	Yes	Yes
Power Requirements	IEEE 802.3at compliant (HPoE system), AC 24 V	IEEE 802.3at compliant (HPoE system), AC 24 V	AC 24 V	IEEE 802.3at compliant (HPoE), AC 24 V, DC 12 V	AC 24 V	IEEE 802.3at compliant (HPoE), AC 24 V, DC 12 V
Power Consumption	25 W max.	25 W max.	80 W max.	25 W max.	78 W max.	23 W max.
Operating Temperature	-5°C to +50°C (23°F to 122°F)	-5°C to +50°C (23°F to 122°F)	-40°C to +50°C (-40°F to +122°F)	0°C to +50°C (32°F to 122°F)	-40°C to +50°C (-40°F to +122°F)	0°C to +50°C (32°F to 122°F)
Dimensions	ø147.4 x 190.9 mm (ø5 7/8 x 7 5/8 inches)	ø147.4 x 190.9 mm (ø5 7/8 x 7 5/8 inches)	ø238 x 344 mm (ø9 3/8 x 13 5/8 inches)	ø154 x 226 mm (ø6 1/8 x 9 inches)	ø238 x 344 mm (ø9 3/8 x 13 5/8 inches)	ø154 x 226 mm (ø6 1/8 x 9 inches)

(*) Definition of HD: Vertical resolution of more than 720 pixels, and streaming capability of more than 30/25 fps at 1280 x 720 pixels.

(**) When "/" (slash) is included in the model name, please read as the model name for NTSC and PAL, respectively. Likewise, when "P" is included in the maximum resolution and maximum frame rate, please read the value for NTSC model and PAL, respectively.

Hybrid Cameras


Series Name	Z Series				
Model Name	SNC-ZB550	SNC-ZM551	SNC-ZM550	SNC-ZR550	SNC-ZP550
	Hybrid Fixed HD Camera	Hybrid Vandal-resistant Mini Dome HD Camera	Hybrid Mini Dome HD Camera	Hybrid Rapid Dome HD Camera	Hybrid PTZ HD Camera
					
Video Compression Format	H.264/MPEG-4/JPEG				
Multi Streaming Capability	Dual streaming ^(*)				
Computer Display Format	HD ^(*)	HD ^(*)	HD ^(*)	HD ^(*)	HD ^(*)
Maximum Resolution (IP)	1280 x 1024	1280 x 1024	1280 x 1024	1280 x 720	1280 x 720
Signal System	NTSC/PAL (switchable)				
Vandal Resistance	No	IK10	No	No	No
Horizontal Viewing Angle	96.5° to 33.9°	85.4° to 31.2°	85.4° to 31.2°	55.9° to 2.1°	55.9° to 2.1°
Zoom Ratio	2.9x optical zoom	2.9x optical zoom	2.9x optical zoom	28x optical zoom	28x optical zoom
Focal Length	f=2.8 mm to 8 mm	f=3.1 mm to 8.9 mm	f=3.1 mm to 8.9 mm	f=3.5 mm to 98 mm	f=3.5 mm to 98 mm
Lens	CS mount lens	Built-in varifocal lens	Built-in varifocal lens	Auto-focus zoom lens	Auto-focus zoom lens
Image Sensor	1/3-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/4-type progressive scan Exmor CMOS sensor	1/4-type progressive scan Exmor CMOS sensor
Wide-D	No	No	No	DynaView	DynaView
Dynamic Range	More than 60 dB	More than 60 dB	More than 60 dB	More than 60 dB	More than 60 dB
Minimum Illumination (50 IRE)	Color: 0.50 lx, B/W: 0.30 lx (F1.2, shutter 1/30 s, AGC 42 dB by IP)	Color: 0.50 lx, B/W: 0.30 lx (F1.2, shutter 1/30 s, AGC 42 dB by IP)	Color: 0.50 lx, B/W: 0.30 lx (F1.2, shutter 1/30 s, AGC 42 dB by IP)	Color: 1.0 lx, B/W: 0.10 lx (F1.35, AGC ON, shutter 1/30 s by IP)	Color: 1.0 lx, B/W: 0.10 lx (F1.35, AGC ON, shutter 1/30 s by IP)
Maximum Frame Rate	30 fps (H.264/MPEG-4/JPEG) at 1280 x 720	30 fps (H.264/MPEG-4/JPEG) at 1280 x 720	30 fps (H.264/MPEG-4/JPEG) at 1280 x 720	30 fps (H.264/MPEG-4/JPEG) at 1280 x 720	30 fps (H.264/MPEG-4/JPEG) at 1280 x 720
Day/Night	True D/N	True D/N	True D/N	True D/N	True D/N
Noise Reduction	Yes	Yes	Yes	Yes	Yes
Card Slots	No	No	No	SD/SDHC card x1	SD/SDHC card x1
Analog Video Output	Yes	Yes	Yes	Yes	Yes
"Rapid Dome" or "PTZ"	No	No	No	Rapid Dome	PTZ
Pan/Tilt Angle (Powered)	No	No	No	360° endless rotation/210°	340°/105°
Pan Speed	No	No	No	300°/s (max.)	300°/s (max.)
Analytics Architecture	DEPA	DEPA	DEPA	DEPA	DEPA
ONVIF Conformance	Yes	Yes	Yes	Yes	Yes
Power Requirements	AC 24 V, DC 12 V	AC 24 V, DC 12 V	AC 24 V, DC 12 V	IEEE 802.3at compliant (HPoE system) ^(**) , AC 24 V	IEEE 802.3at compliant (HPoE system) ^(**) , AC 24 V
Power Consumption	6 W max.	7 W max.	7 W max.	25 W max.	25 W max.
Operating Temperature	-10°C to +50°C (14°F to 122°F)	-10°C to +50°C (14°F to 122°F)	-10°C to +50°C (14°F to 122°F)	-5°C to +50°C (23°F to 122°F)	-5°C to +50°C (23°F to 122°F)
Dimensions	72 x 63 x 197 mm (2 7/8 x 2 1/2 x 7 7/8 inches)	ø140 x 118 mm (ø5 5/8 x 4 3/4 inches)	ø140 x 118 mm (ø5 5/8 x 4 3/4 inches)	ø147.4 x 190.9 mm (ø5 7/8 x 7 5/8 inches)	ø147.4 x 190.9 mm (ø5 7/8 x 7 5/8 inches)

^(*) Dual streaming is not available when an analog video signal is output from the SLOC port.

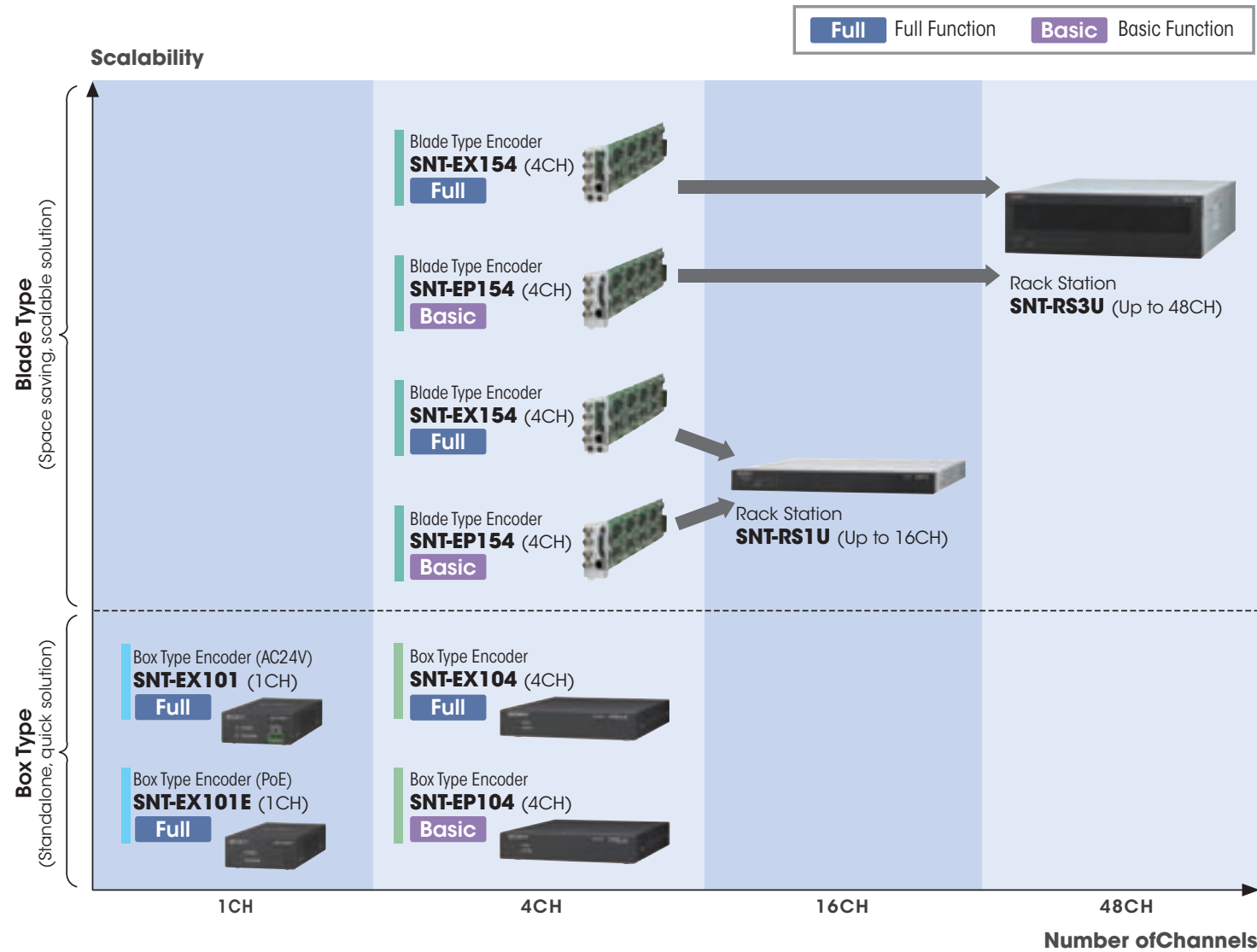
^(**) Definition of HD: Vertical resolution of more than 720 pixels, and streaming capability of more than 30/25 fps at 1280 x 720 pixels.

^(***) HPoE is available when the camera is connected to HPoE-compatible equipment via an Ethernet cable.

Hybrid Camera Receiver

Model Name	SNCA-ZX104
	
Camera Connection	
Number of Cameras Supported	4
Supported Serial PTZ Control Protocol	Pelco-D
Interface	
Network Port	100BASE-TX, 10BASE-T (RJ-45 x1)
Serial Interface	RS-485 x1 (I/O port for PTZ camera control)
SLOC Port	BNC x4 (75 Ω)
Analog Video Output	BNC x4 (1.0 Vp-p, 75 Ω, NTSC or PAL)
General	
Power Requirements	DC 12 V (AC 100 V to AC 240 V, 50/60 Hz for AC adaptor)
Power Consumption	Approx. 12.0 W Approx. 0.22 A/0.12 A (AC adaptor, AC 100 V to AC 240 V)
Dimensions (W x H x D)	Approx. 210 mm x 44 mm x 250 mm (without projecting parts) (Approx. 8 3/8 inches x 1 3/4 inches x 9 7/8 inches, without projecting parts)

Surveillance Video Encoders



Rack Station



SNT-RS1U

Accepts up to 4 blade encoders (up to 16 ch)
Universal power capability
AC 100V - AC240V, 50/60 Hz



SNT-RS3U

Accepts up to 12 blade encoders (up to 48 ch)
Universal power capability
AC 100V - AC240V, 50/60 Hz







Optional Accessory



SNTA-RP1

Redundant Power Supply Unit (for SNT-RS3U only)


Surveillance Video Encoders

	Full Function				Basic Function	
	1CH Box		4CH Box	4CH Blade	4CH Box	4CH Blade
	SNT-EX101	SNT-EX101E	SNT-EX104	SNT-EX154	SNT-EP104	SNT-EP154
						
Video Resolution	D1 (NTSC: 720 x 480, PAL: 720 x 576), VGA (640 x 480), CIF (384 x 288), QVGA (320 x 240)	D1 (NTSC: 720 x 480, PAL: 720 x 576), VGA (640 x 480), CIF (384 x 288), QVGA (320 x 240)	D1 (NTSC: 720 x 480, PAL: 720 x 576), VGA (640 x 480), CIF (384 x 288), QVGA (320 x 240)	D1 (NTSC: 720 x 480, PAL: 720 x 576), VGA (640 x 480), CIF (384 x 288), QVGA (320 x 240)	D1 (NTSC: 720 x 480, PAL: 720 x 576), VGA (640 x 480), CIF (384 x 288), QVGA (320 x 240)	D1 (NTSC: 720 x 480, PAL: 720 x 576), VGA (640 x 480), CIF (384 x 288), QVGA (320 x 240)
Video Compression Format	H.264, MPEG-4, JPEG	H.264, MPEG-4, JPEG	H.264, MPEG-4, JPEG	H.264, MPEG-4, JPEG	H.264, MPEG-4, JPEG	H.264, MPEG-4, JPEG
Multi Streaming Capability	Dual streaming (Any combination with JPEG/MPEG-4/H.264, including multiple streams of the same format)	Dual streaming (Any combination with JPEG/MPEG-4/H.264, including multiple streams of the same format)	Dual streaming (Any combination with JPEG/MPEG-4/H.264, including multiple streams of the same format)	Dual streaming (Any combination with JPEG/MPEG-4/H.264, including multiple streams of the same format)	Dual streaming (Any combination with JPEG/MPEG-4/H.264, including multiple streams of the same format)	Dual streaming (Any combination with JPEG/MPEG-4/H.264, including multiple streams of the same format)
Maximum Frame Rate	H.264/MPEG-4/JPEG: 30fps (NTSC: 720 x 480, PAL: 720 x 576)	H.264/MPEG-4/JPEG: 30fps (NTSC: 720 x 480, PAL: 720 x 576)	H.264/MPEG-4/JPEG: 30fps (NTSC: 720 x 480, PAL: 720 x 576)	H.264/MPEG-4/JPEG: 30fps (NTSC: 720 x 480, PAL: 720 x 576)	H.264/MPEG-4/JPEG: 30fps (NTSC: 720 x 480, PAL: 720 x 576)	H.264/MPEG-4/JPEG: 30fps (NTSC: 720 x 480, PAL: 720 x 576)
PTZ Control	Yes	Yes	Yes	Yes	No	No
Tone Correction	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)
Noise Reduction	XDNR	XDNR	XDNR	XDNR	XDNR	XDNR
Coaxitron Control	Yes	Yes	Yes	Yes	No	No
Serial Interface	RS-422/RS-485	RS-422/RS-485	RS-485	RS-485	-	-
USB Slots	x 1 (*)	x 1 (*)	x 4 (*)	-	-	-
Sensor Input	x 2	x 2	x 4	x 4	-	-
Alarm Output	x 2	x 2	x 4	x 4	-	-
Audio Interface (IN/OUT)	IN x 1, OUT x 1	IN x 1, OUT x 1	IN x 4, OUT x 4	IN x 1, OUT x 1	-	-
Audio Support	Full Duplex	Full Duplex	Full Duplex	Full Duplex	No	No
Analytics Architecture	DEPA Advanced	DEPA Advanced	DEPA Advanced	DEPA Advanced	No	No
ONVIF Conformance	Yes	Yes	Yes	Yes	Yes	Yes
Dimensions (W x H x D)	73 x 34 x 155 mm (2 7/8 x 1 3/8 x 6 1/8 inches)	73 x 34 x 155 mm (2 7/8 x 1 3/8 x 6 1/8 inches)	210 x 44 x 250 mm (8 3/8 x 1 3/4 x 9 7/8 inches)	78 x 34 x 382 mm (3 1/8 x 1 3/8 x 15 1/8 inches)	210 x 44 x 250 mm (8 3/8 x 1 3/4 x 9 7/8 inches)	78 x 34 x 382 mm (3 1/8 x 1 3/8 x 15 1/8 inches)
Power Requirements	AC 24V in, with loop through output Input: AC 24V, +/- 20%	PoE (Class 2)	DC12 V	From Rack Station	DC12 V	From Rack Station

(*) USB slots are inside the chassis, not on the front or rear panels.

These products include software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (<http://www.openssl.org/>)

Network Surveillance Recording Servers

NSR-500	
	
Video/Recording	
Number of Cameras Supported	Max. 16 (Max. 24 channels with NSBK-CL05) (IP/Analog total)
Number of Analog Cameras	Max. 16 with NSBK-EB05
Video Recording Format (IP Camera)	H.264 / MPEG-4 / JPEG
Total Recording Frame Rate	480fps (at H.264, Full-HD, 4Mbps)
Hard Disk Drives (Physical Capacity)	Expandable up to 12TB (2TB x 6)
Hard Disk Drives (RAID Level)	RAID 0, RAID 1, RAID 10 (1+0), RAID 5, RAID 5 with hot spare
Expansion Storage	iSCSI storage (max. 16TB)
Video Output	
Monitor OUT 1	Analog RGB (D-sub 15-pin) x 1 *
Audio Output	
Audio OUT	Stereo mini jack x 1
Sensor Input/Alarm Output	
Sensor Input	Terminal connector x 8
Alarm Output	Terminal connector x 8
Other Interfaces	
Network Port	1000BASE-T/100BASE-TX/10BASE-T x 2
USB	USB2.0 x 2 (Front), USB2.0 x 2 (Rear)
Serial Interface (for UPS)	RS-232C : D-sub 9-pin x 1
General	
Dimensions (W x H x D)	440 x 89 x 392mm (17 3/8 x 3 1/2 x 15 1/2 inches) excluding protrusions
Mass	Approx. 6.8 kg (15 lb) (without HDD unit)
Power Requirements	100V to 127V AC / 200V to 240V (50/60Hz)
Power Consumption	max. 250W (100-240V 3.5-1.5A)
Operating Temperature	5 to 40°C (41 to 104°F)
Operation Humidity	20 to 80% (no condensing)
Optional Accessories	NSBK-EB05, NSBK-DH05, NSBK-CL05, NSBK-HS05:01, NSBK-HS05:02, RM-NS1000

*: Monitor Output is designed for use in system configuration settings, not for live monitoring applications. Display frame rates for live viewing and playback vary according to system configurations.

Intelligent Monitoring Software

RealShot Manager Advanced and RealShot Manager Lite



	IMZ-NS101	IMZ-NS104	IMZ-NS109	IMZ-NS116	IMZ-NS132	RSM Lite (Free Software)
	RSM Advanced with 1 camera license	RSM Advanced with 4 camera licenses	RSM Advanced with 9 camera licenses	RSM Advanced with 16 camera licenses	RSM Advanced with 32 camera licenses	RSM Lite with 9 camera licenses
Specifications						
Video Compression Format	H.264/MPEG-4/JPEG					
Audio Compression Format	G.711/G.726					
Number of Clients (Recommendation) *1	10					3
Number of Cameras Supported	1 *2	4 *2	9 *2	16 *2	32	9
Number of Audio Supported	1	4	9	16	32	9
System Requirements						
Operating System	Windows 7 Professional, Windows 7 Enterprise, Windows Vista® Business SP2 (32 bit), Windows Vista® Enterprise SP2 (32 bit), Windows® XP Professional SP3 (32 bit), Windows® Server 2003 Standard Edition SP2(32bit), Windows® Server 2008 Standard Edition SP2 (32 bit), Windows Server 2008 R2 Standard					
CPU	Intel Core™ 2Duo 2.0-GHz or higher					
Main Memory	1 GB or more (2 GB Recommended)					
HDD	2 GB spare capacity					
Video Card	1024 x 768, 16/24 bit color					
Network Interface Card (NIC)	100BASE-TX or higher					
Display Resolution	1024 x 768 or higher					
Optional Accessories	RM-NS1000 (System Controller)					

*1: The figures in the table are recommended numbers of clients to assure high performance. It is technically possible to connect more clients to a server, but such increase may deteriorate the overall performance.

*2: It is possible to operate with combining multiple licenses.



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