

SONY

Network Surveillance Products

Quick Reference Guide 



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4K

A heightened sense of security

Sony 4K delivers maximum returns on your investment in video security and surveillance – in cities, public spaces, airports, roads and railways. Class-leading picture quality is teamed with powerful analytics and smart setup, allowing an exciting new range of video monitoring applications. You'll clearly see the difference that Sony 4K delivers in any environment, with dramatically increased efficiency and lower operational costs compared with conventional video security solutions.

SNC-VB770

Ultra High Sensitivity 4K Network Camera with 35 mm Full-frame Exmor™ CMOS Sensor
Thanks to ultra-high sensitivity of expandable ISO 409600, the SNC-VB770 4K network camera features top levels of minimum illumination of less than 0.004 lx - to capture exceptionally detailed 4K/30 fps colour video, even at night and in similar extreme lighting environments.



SNC-VM772R







With four times the resolution of Full HD, Sony's outdoor 4K network security camera brings industry-leading clarity and sensitivity to critical video monitoring and surveillance applications.








Specifications

Model Name	SNC-VB770	SNC-VM772R
Video Compression Format	H.264 (High/Main Profile), JPEG H.264 (B-picture) is supported for 3840 x 2160 and 2880 x 2160 resolution.	H.264 (High/Main Profile), JPEG H.264 (B-picture) is supported for 3840 x 2160 and 2880 x 2160 resolution.
Multi Streaming Capability	Yes (5)	Yes (5)
Maximum Resolution	4240 x 2832	5472 x 3648
IR Illuminator	No	Yes
Ingress Protection	No	IP66
Vandal Resistance	No	IK10
Horizontal Viewing Angle	Depends on the lens	70.7° to 27.5° (16:9 aspect ratio) 76.6° to 29.8° (3:2 aspect ratio)
Zoom Ratio	Optical zoom: Depends on the lens Clear Image Zoom 2.0x Digital zoom 2.0x	Optical zoom 2.9x Clear Image Zoom 2.0x Digital zoom 2.0x
Focal Length	Depends on the lens	f = 8.8 mm to 25.7 mm
Lens	E-mount FE lens (option)	Built-in zoom lens
Image Sensor	35mm full frame Exmor CMOS sensor	1.0-type progressive scan Exmor R CMOS sensor
Wide-D	View-DR	View-DR
Tone Correction	Visibility Enhancer	Visibility Enhancer
Dynamic Range	Equivalent to 100 dB with View-DR Technology	Equivalent to 90 dB with View-DR Technology
Minimum Illumination (30 IRE)	0.004 lx (F1.4, 1/30 s, ISO409,600)	Color: 0.06 lx (F1.8, 1/30 s) B/W: 0 lx (IR LED On, F1.8, 1/30 s)
Maximum Frame Rate	H264: 30 fps (3840 x 2160)/30 fps (1920 x 1080) JPEG: 2.5 fps (4240 x 2832)	H264: 30 fps (3840 x 2160)/10 fps (1920 x 1080) JPEG: 2.5 fps (5472 x 3648)
Day/Night	No	True D/N
Noise Reduction	XDNR	XDNR
Image Stabilizer	No	Optical
Intelligent Scene Capture	Yes	Yes
Intelligent Cropping	(Mode) Dynamic/Static (Number) 2 (1920 x 1080), 4 (640 x 480)	(Mode) Dynamic/Static (Number) 2 (1920 x 1080), 4 (640 x 480)
Intelligent Coding	(Mode) Auto/Manual (Number) Up to 8 (up to 4 for Auto mode)	(Mode) Auto/Manual (Number) Up to 8 (up to 4 for Auto mode)
Edge Storage	Yes	Yes
Card Slots	SD x1	SD x1
ONVIF Conformance	Profile S	Profile S
Power Requirements	IEEE 802.3af compliant (PoE) Class 3, DC 12 V ±25 %, AC 24 V ±20 %, 50/60 Hz	IEEE 802.3af compliant (PoE) Class 3, DC 12 V ±10%, AC 24 V ±20%, 50/60 Hz
Power Consumption	1.6 W max. (including E-mount FE lens)	12.95 W max.
Operating Temperature	-5 °C to +50 °C (23°F to 122°F)	-40°C to +50°C (-40°F to +122°F)
Dimensions	104 mm x 84.6 mm x 118 mm (4 1/8 inches x 3 3/8 inches x 4 3/4 inches) (without lens)	ø190 x 146.7 mm (ø7 1/2 inches x 5 7/8 inches)







Fixed Network Cameras

Series Name	V Series					
Model Name	SNC-VB642D	SNC-VB632D	SNC-VB640	SNC-VB635	SNC-VB630	SNC-VB600
						
Video Compression Format	H.264 (High/Main/Baseline Profile)/JPEG					
Multi Streaming Capability	Yes (3)	Yes (3)	Yes (3)	Yes (3)	Yes (3)	Yes (3)
Maximum Resolution	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1280 x 1024
IR Illuminator	Yes	Yes	No	No	No	No
White-light LED Illuminator	Yes	Yes	No	No	No	No
Built-in Speaker and Microphone	No	No	No	No	No	No
Ingress Protection	IP66	IP66	No	No	No	No
Vandal Resistance	IK08	IK08	No	No	No	No
Horizontal Viewing Angle	105.3° to 35.6°	105.3° to 35.6°	114.2° to 40.0°	NA	114.2° to 40.0°	100.0° to 35.7°
Zoom Ratio	3x optical zoom 4x digital zoom 12x total zoom	3x optical zoom	2.9x optical zoom 4x digital zoom 11.6x total zoom	NA	2.9x optical zoom	2.9x optical zoom
Focal Length	f = 3.0 mm to 9.0 mm	f = 3.0 mm to 9.0 mm	f = 2.8 mm to 8.0 mm	NA	f = 2.8 mm to 8.0 mm	f = 2.8 mm to 8.0 mm
Lens	Built-in varifocal lens	Built-in varifocal lens	CS-mount varifocal lens	C/CS mount lens (not included)	CS mount varifocal lens	CS mount varifocal lens
Image Sensor	1/2.8-type progressive scan Exmor R CMOS sensor	1/2.9-type progressive scan Exmor CMOS sensor	1/2.8-type progressive scan Exmor R CMOS 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
Wide-D	View-DR	View-DR	View-DR	View-DR	View-DR	View-DR
Tone Correction	Visibility Enhancer	Visibility Enhancer (VE)	Visibility Enhancer	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)
Dynamic Range	Equivalent to 90 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	Equivalent to 90 dB with View-DR technology	Equivalent to 130 dB with View-DR technology
Minimum Illumination (50 IRE)	Color: 0.01 lx, B/W: 0 lx (IR LED On) (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)	Color: 0.1 lx, B/W: 0 lx (IR illuminator ON) (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)	Color: 0.01 lx, B/W: 0.007 lx (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)	Color: 0.04 lx, B/W: 0.03 lx (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)
Maximum Frame Rate	60 fps (H.264) at 1920 x 1080, 60 fps (JPEG) at 1280 x 720	60 fps (H.264) at 1920 x 1080, 60 fps (JPEG) at 1280 x 720	60 fps (H.264) at 1920 x 1080, 60 fps (JPEG) at 1280 x 720	60 fps (H.264) at 1920 x 1080, 60 fps (JPEG) at 1280 x 720	60 fps (H.264) at 1920 x 1080, 60 fps (JPEG) at 1280 x 720	60 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
Noise Reduction	XDNR	XDNR	XDNR	XDNR	XDNR	XDNR
Image Stabilizer	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
Edge Storage	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
Wireless Network	No	No	No	No	No	No
Analog Video/Monitor Output	Yes	Yes	Yes	Yes	Yes	Yes
Analytics Architecture	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
Power Requirements	12 V DC ±10% 24 V AC ±20%, 50 Hz/60 Hz IEEE802.3af compliant (PoE/PoE+ system)	DC 12 V ±10% AC 24 V ±20%, 50 Hz/60 Hz IEEE802.3af compliant (PoE/PoE+ system)	IEEE 802.3af compliant (PoE system), DC 12 V ± 10%, AC 24 V ± 20%	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	21 W max. (AC 24 V/DC 12 V) 17 W max. (IEEE802.3af (PoE+)) 12.5 W max. (IEEE802.3af (PoE))	21 W max.	6.0 W max.	6 W max.	6 W max.	6 W max.
Operating Temperature	-40°C to +60°C (-40°F to +140°F) (LED Off, PoE+, AC 24 V, DC 12 V) -40°C to +50°C (-40°F to +122°F) (LED On, PoE+, AC 24 V, DC 12 V) -10°C to +60°C (14°F to +140°F) (LED Off, PoE) -10°C to +50°C (14°F to 122°F) (LED On, PoE)	-40°C to +60°C (-40°F to +140°F) (LED Off, PoE+, AC 24 V, DC 12 V)	-10°C to +50°C (14°F to 122°F)	-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)
Dimensions	93 x 93 x 180.9 mm (3 3/4 x 3 3/4 x 7 1/8 inches) ø140 x 313.4 mm (ø5 5/8 x 12 3/8 inches) including arm	ø140 x 313.4 mm (ø5 5/8 inches x 12 3/8 inches) including arm	72 x 63 x 145 mm (2 7/8 x 2 1/2 x 5 3/4 inches) without lens 72 x 63 x 199 mm (2 7/8 x 2 1/2 x 7 7/8 inches) with lens	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





Fixed Network Cameras

Series Name	E Series				
Model Name	SNC-EB642R	SNC-EB632R	SNC-EB602R	SNC-EB640	SNC-EB630
					
Video Compression Format	H.264 (High/Main/Baseline Profile)/JPEG				
Multi Streaming Capability	Yes (3)	Yes (3)	Yes (3)	Yes (3)	Yes (3)
Maximum Resolution	1920 x 1080	1920 x 1080	1280 x 1024	1920 x 1080	1920 x 1080
IR Illuminator	Yes (3)	Yes	Yes	No	No
White-light LED Illuminator	No	No	No	No	No
Built-in Speaker and Microphone	No	No	No	No	No
Ingress Protection	IP66	IP66	IP66	No	No
Vandal Resistance	IK08	No	No	No	No
Horizontal Viewing Angle	105.3° to 35.6°	105.3° to 35.6°	92.9° to 31.8°	114.2° to 40.0°	114.2° to 40.0°
Zoom Ratio	3x optical zoom 4x digital zoom 12x total zoom	3x optical zoom	3x optical zoom	2.9x optical zoom 4x digital zoom 11.6x total zoom	2.9x 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 = 2.8 mm to 8.0 mm	f = 2.8 mm to 8.0 mm
Lens	Built-in varifocal lens	Built-in varifocal lens	Built-in varifocal lens	CS-mount varifocal lens	CS mount varifocal lens
Image Sensor	1/2.8-type progressive scan Exmor R CMOS sensor	1/2.9-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/2.8-type progressive scan Exmor R CMOS sensor	1/2.9-type progressive scan Exmor CMOS sensor
Wide-D	View-DR	View-DR	View-DR	View-DR	View-DR
Tone Correction	Visibility Enhancer	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer	Visibility Enhancer (VE)
Dynamic Range	Equivalent to 90 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
Minimum Illumination (50 IRE)	Color: 0.01 lx, B/W: 0 lx (IR LED On) (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)	Color: 0.1 lx, B/W: 0 lx (IR LED ON) (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)	Color: 0.05 lx, B/W: 0 lx (IR LED ON) (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)	Color: 0.01 lx, B/W: 0.007 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)
Maximum Frame Rate	60 fps (H.264) at 1920 x 1080, 60 fps (JPEG) at 1280 x 720	30 fps (H.264/JPEG) at 1920 x 1080	30 fps (H.264/JPEG) at 1280 x 1024	60 fps (H.264) at 1920 x 1080, 60 fps (JPEG) at 1280 x 720	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
Noise Reduction	XDNR	XDNR	XDNR	XDNR	XDNR
Image Stabilizer	Electronic	Electronic	Electronic	Electronic	Electronic
Edge Storage	Yes	No	No	Yes	No
Card Slots	SD x 1	No	No	SD x 1	No
Wireless Network	No	No	No	No	No
Analog Video/Monitor Output	Yes	Yes	Yes	Yes	Yes
Analytics Architecture	DEPA Advanced	DEPA Advanced	DEPA Advanced	DEPA Advanced	DEPA Advanced
ONVIF Conformance	Profile S	Profile S	Profile S	Profile S	Profile S
Power Requirements	IEEE 802.3af compliant (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)
Power Consumption	Max. 12.5 W (IEEE802.3af (PoE))	11.4 W max.	10.0 W max.	6.0 W max.	6 W max.
Operating Temperature	-30°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)	-10°C to +50°C (14°F to 122°F)	-10°C to +50°C (14°F to 122°F)
Dimensions	93 x 93 x 180.9 mm (3 3/4 x 3 3/4 x 7 1/8 inches) ø140 x 313.4 mm (ø5 5/8 x 12 3/8 inches) including arm	93 x 93 x 160.9 mm (3 3/4 x 3 3/4 x 6 3/8 inches)	93 x 93 x 160.9 mm (3 3/4 x 3 3/4 x 6 3/8 inches)	72 x 63 x 145 mm (2 7/8 x 2 1/2 x 5 3/4 inches) without 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 199 mm (2 7/8 x 2 1/2 x 7 7/8 inches) with lens

Fixed Network Cameras





Series Name	E Series			C Series		X Series
Model Name	SNC-EB600	SNC-EB630B	SNC-EB600B	SNC-CX600W	SNC-CX600	SNC-CH110
						
Video Compression Format	H.264 (High/Main/Baseline Profile)/JPEG					H.264/MPEG-4/JPEG
Multi Streaming Capability	Yes (3)	Yes (3)	Yes (3)	Yes (3)	Yes (3)	Yes (2)
Maximum Resolution	1280 x 1024	1920 x 1080	1280 x 1024	1280 x 720	1280 x 720	1280 x 960
IR Illuminator	No	No	No	No	No	No
White-light LED Illuminator	No	No	No	Yes	Yes	No
Built-in Speaker and Microphone	No	No	No	Yes	Yes	No
Ingress Protection	No	No	No	No	No	No
Vandal Resistance	No	No	No	No	No	No
Horizontal Viewing Angle	100.0° to 35.7°	114.2° to 40.0°	100.0° to 35.7°	120°	120°	80.7°
Zoom Ratio	2.7x optical zoom	2.9x optical zoom	2.7x optical zoom	NA	NA	NA
Focal Length	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	f = 2.3 mm
Lens	CS mount varifocal lens	CS mount varifocal lens	CS mount varifocal lens	Fixed lens	Fixed lens	Built-in fixed focal lens
Image 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	1/3.8-type progressive scan CMOS sensor
Wide-D	View-DR	View-DR	View-DR LT	View-DR LT-C	View-DR LT-C	No
Tone Correction	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	No
Dynamic Range	Equivalent to 130 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	More than 60 dB	NA
Minimum Illumination (50 IRE)	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)	5.0 lx (AGC 30 dB)
Maximum Frame Rate	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	30 fps (H.264/MPEG-4/JPEG) at 1280 x 720
Day/Night	True D/N	Electronic D/N	Electronic D/N	No	No	Electronic D/N
Noise Reduction	XDNR	XDNR	XDNR	XDNR	XDNR	Yes
Image Stabilizer	Electronic	Electronic	Electronic	Electronic	Electronic	No
Edge Storage	No	No	No	Yes	Yes	No
Card Slots	No	No	No	micro SD card	micro SD card	No
Wireless Network	No	No	No	IEEE802.11b/g/n	No	No
Analog Video/Monitor Output	Yes	Yes	Yes	No	No	Yes
Analytics Architecture	DEPA Advanced	DEPA Advanced	DEPA Advanced	DEPA Advanced	DEPA Advanced	DEPA
ONVIF Conformance	Profile S	Profile S	Profile S	Profile S	Profile S	Yes
Power Requirements	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)	IEEE802.3af compliant (PoE system)
Power Consumption	6 W max.	6 W max.	6 W max.	5.0 W max.	5.0 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)	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)	0°C to +50 °C (32°F to 122°F)
Dimensions	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)	ø44 x 93 mm (ø1 3/4 x 3 3/4 inches)

Mini Dome Network Cameras





Series Name	V Series			
Model Name	SNC-VM642R	SNC-VM632R	SNC-VM602R	SNC-VM641
				
Video Compression Format	H.264 (High/Main/Baseline Profile)/JPEG			
Multi Streaming Capability	Yes (3)	Yes (3)	Yes (3)	Yes (3)
Maximum Resolution	1920 x 1080	1920 x 1080	1280 x 1024	1920 x 1080
IR Illuminator	Yes	Yes	Yes	No
Built-in Speaker and Microphone	No	No	No	No
Ingress Protection	IP66	IP66	IP66	-
Vandal Resistance	IK10	IK10	IK10	IK10
Horizontal Viewing Angle	105.3° to 35.6°	105.3° to 35.6°	92.9° to 31.8°	105.3° to 35.6°
Zoom Ratio	3x optical zoom 4x digital zoom 12x total zoom	3.0x optical zoom	3.0x optical zoom	3x optical zoom 4x digital zoom 12x total 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
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
Image Sensor	1/2.8-type progressive scan Exmor R CMOS sensor	1/2.9-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/2.8-type progressive scan Exmor R CMOS sensor
Wide-D	View-DR	View-DR	View-DR	View-DR
Tone Correction	Visibility Enhancer	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer
Dynamic Range	Equivalent to 90 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
Minimum Illumination (50 IRE)	Color: 0.01 lx, B/W: 0 lx (IR LED On) (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)	Color: 0.1 lx, B/W: 0 lx (IR LED On) (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)	Color: 0.05 lx, B/W: 0 lx (IR LED On) (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)	Color: 0.01 lx, B/W: 0.007 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) 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
Day/Night	True D/N	True D/N	True D/N	True D/N
Noise Reduction	XDNR	XDNR	XDNR	XDNR
Image Stabilizer	Electronic	Electronic	Electronic	Electronic
Edge Storage	Yes	Yes	Yes	Yes
Card Slots	SD card x1	SD card x1	SD card x1	SD card x1
Wireless Network	No	No	No	No
Analog Video/Monitor Output	Yes	Yes	Yes	Yes
Analytics Architecture	DEPA Advanced	DEPA Advanced	DEPA Advanced	DEPA Advanced
ONVIF Conformance	Profile S	Profile S	Profile S	Profile S
Power Requirements	1IEEE802.3af compliant (PoE/PoE+ system), AC 24 V ± 20%, 50 Hz/60 Hz, DC 2 V ± 10%	IEEE 802.3af compliant (PoE/PoE+ system), AC 24V, DC 12V	IEEE 802.3af compliant (PoE/PoE+ system), AC 24V, DC 12V	IEEE 802.3af compliant (PoE system), AC 24 V ± 20%, DC 12 V ± 10%
Power Consumption	22 W max. (AC 24 V/DC 12 V) 18 W max. (IEEE802.3af (PoE+)) 12.8 W max. (IEEE802.3af(PoE))	22 W max. (AC 24 V/DC 12 V, heater ON) 18 W max. (IEEE802.3af (PoE+), heater ON) 12.8 W max. (IEEE802.3af/at (PoE/PoE+), heater OFF)	22 W max. (AC 24 V/DC 12 V, heater ON) 18 W max. (IEEE802.3af (PoE+), heater ON) 12.8 W max. (IEEE802.3af/at (PoE/PoE+), heater OFF)	6.0 W max.
Operating Temperature	-40°C to +60°C (-40°F to +140°F) (IR Off, PoE+, AC 24 V, DC 12 V) -40°C to +50°C (-40°F to +122°F) (IR On, PoE+, AC 24 V, DC 12 V) -10°C to +60°C (14°F to +140°F) (IR Off, PoE) -10°C to +50°C (14°F to 122°F) (IR On, PoE)	-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)
Dimensions	ø166 x 128 mm (ø6 5/8 x 5 1/8 inches)	ø166 x 128 mm (ø6 5/8 x 5 1/8 inches)	ø166 x 128 mm (ø6 5/8 x 5 1/8 inches)	ø148 x 108 mm (ø5 7/8 x 4 3/8 inches)

^(*) 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.

Mini Dome Network Cameras





Series Name	V Series			
Model Name	SNC-VM631	SNC-VM601	SNC-VM630	SNC-VM600
				
Video Compression Format	H.264 (High/Main/Baseline Profile)/JPEG			
Multi Streaming Capability	Yes (3)	Yes (3)	Yes (3)	Yes (3)
Maximum Resolution	1920 x 1080	1280 x 1024	1920 x 1080	1280 x 1024
IR Illuminator	No	No	No	No
Built-in Speaker and Microphone	No	No	No	No
Ingress Protection	No	No	No	No
Vandal Resistance	IK10	IK10	No	No
Horizontal Viewing Angle	105.3° to 35.6°	92.9° to 31.8°	105.3° to 35.6°	92.9° to 31.8°
Zoom Ratio	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
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
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
Wide-D	View-DR	View-DR	View-DR	View-DR
Tone Correction	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
Minimum Illumination (50 IRE)	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)
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
Day/Night	True D/N	True D/N	True D/N	True D/N
Noise Reduction	XDNR	XDNR	XDNR	XDNR
Image Stabilizer	Electronic	Electronic	Electronic	Electronic
Edge Storage	Yes	Yes	Yes	Yes
Card Slots	SD card x1	SD card x1	SD card x1	SD card x1
Wireless Network	No	No	No	No
Analog Video/Monitor Output	Yes	Yes	Yes	Yes
Analytics Architecture	DEPA Advanced	DEPA Advanced	DEPA Advanced	DEPA Advanced
ONVIF Conformance	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
Power Consumption	6.0 W max.	6.0 W max.	6.0 W max.	6.0 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)
Dimensions	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)

Mini Dome Network Cameras

Series Name	E Series			
Model Name	SNC-EM642R	SNC-EM632RC	SNC-EM602RC	SNC-EM641
				
Video Compression Format	H.264 (High/Main/Baseline Profile)/JPEG			
Multi Streaming Capability	Yes (3)	Yes (3)	Yes (3)	Yes (3)
Maximum Resolution	1920 x 1080	1920 x 1080	1280 x 1024	1920 x 1080
IR Illuminator	Yes	Yes	Yes	No
Built-in Speaker and Microphone	No	No	No	No
Ingress Protection	IP66	IP66	IP66	-
Vandal Resistance	IK10	IK10	IK10	IK10
Horizontal Viewing Angle	105.3° to 35.6°	105.3° to 35.6°	92.9° to 31.8°	105.3° to 35.6°
Zoom Ratio	3x optical zoom 4x digital zoom 12x total zoom	3.0x optical zoom	3.0x optical zoom	3x optical zoom 4x digital zoom 12x total 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
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
Image Sensor	1/2.8-type progressive scan Exmor R CMOS sensor	1/2.9-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/2.8-type progressive scan Exmor R CMOS sensor
Wide-D	View-DR	View-DR	View-DR	View-DR
Tone Correction	Visibility Enhancer	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer
Dynamic Range	Equivalent to 90 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
Minimum Illumination (50 IRE)	Color: 0.01 lx, B/W: 0 lx (IR LED On) (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)	Color: 0.1 lx, B/W: 0 lx (IR illuminator ON) (F1.2, View-DR Off, VE Off, AGC ON, 1/30 s, 30 fps)	Color: 0.05 lx, B/W: 0 lx (IR illuminator ON) (F1.2, View-DR Off, VE Off, AGC ON, 1/30 s, 30 fps)	Color: 0.01 lx, B/W: 0.007 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	30 fps (H.264) at 1920 x 1080, 30 fps (JPEG) at 1280 x 720	30 fps (H.264/JPEG) at 1280 x 1024	60 fps (H.264) at 1920 x 1080, 60 fps (JPEG) at 1280 x 720
Day/Night	True D/N	True D/N	True D/N	True D/N
Noise Reduction	XDNR	XDNR	XDNR	XDNR
Image Stabilizer	Electronic	Electronic	Electronic	Electronic
Edge Storage	Yes	No	No	Yes
Card Slots	SD x 1	No	No	SD x 1
Wireless Network	No	No	No	No
Analog Video/Monitor Output	Yes	Yes	Yes	Yes
Analytics Architecture	DEPA Advanced	DEPA Advanced	DEPA Advanced	DEPA Advanced
ONVIF Conformance	Profile S	Profile S	Profile S	Profile S
Power Requirements	IEEE802.3at compliant (PoE/PoE+ system)	EEE 802.3at compliant (PoE/PoE+ system)	IEEE 802.3at compliant (PoE/PoE+ system)	IEEE 802.3af compliant (PoE system)
Power Consumption	18 W max. (IEEE802.3at (PoE+)) 12.8 W max. (IEEE802.3af (PoE))	17 W max. (IEEE802.3at (PoE+)) 12.95 W max. (IEEE802.3af/at (PoE/PoE+))	17 W max. (IEEE802.3at (PoE+)) 12.95 W max. (IEEE802.3af/at (PoE/PoE+))	6.0 W max.
Operating Temperature	-40°C to +50°C (-40°F to +122°F) (PoE+) ^(*) -30°C to +50°C (-22°F to +122°F) (PoE) ^(*)	-40°C to +50°C (-40°F to 122°F) (PoE+) ^(*) -30°C to +50°C (-22°F to 122°F) (PoE) ^(*)	-40°C to +50°C (-40°F to 122°F) (PoE+) ^(*) -30°C to +50°C (-22°F to 122°F) (PoE) ^(*)	-10°C to +50°C (14°F to 122°F)
Dimensions	ø166 x 128 mm (ø6 5/8 x 5 1/8 inches)	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)

(*) 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.

Mini Dome Network Cameras



Series Name	E Series			
Model Name	SNC-EM631	SNC-EM601	SNC-EM630	SNC-EM600
				
Video Compression Format	H.264 (High/Main/Baseline Profile)/JPEG			
Multi Streaming Capability	Yes (3)	Yes (3)	Yes (3)	Yes (3)
Maximum Resolution	1920 x 1080	1280 x 1024	1920 x 1080	1280 x 1024
IR Illuminator	No	No	No	No
Built-in Speaker and Microphone	No	No	No	No
Ingress Protection	No	No	No	No
Vandal Resistance	IK10	IK10	No	No
Horizontal Viewing Angle	105.3° to 35.6°	92.9° to 31.8°	105.3° to 35.6°	92.9° to 31.8°
Zoom Ratio	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
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
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
Wide-D	View-DR	View-DR	View-DR	View-DR
Tone Correction	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
Minimum Illumination (50 IRE)	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)
Maximum Frame Rate	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
Day/Night	True D/N	True D/N	True D/N	True D/N
Noise Reduction	XDNR	XDNR	XDNR	XDNR
Image Stabilizer	Electronic	Electronic	Electronic	Electronic
Edge Storage	No	No	No	No
Card Slots	No	No	No	No
Wireless Network	No	No	No	No
Analog Video/Monitor Output	Yes	Yes	Yes	Yes
Analytics Architecture	DEPA Advanced	DEPA Advanced	DEPA Advanced	DEPA Advanced
ONVIF Conformance	Profile S	Profile S	Profile S	Profile S
Power Requirements	IEEE 802.3af compliant (PoE system)	IEEE 802.3af compliant (PoE system)	IEEE 802.3af compliant (PoE system)	IEEE 802.3af compliant (PoE system)
Power Consumption	6 W max.	6 W max.	6 W max.	6 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)
Dimensions	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)

Mini Dome Network Cameras

Series Name	X Series				H Series	X Series	
Model Name	SNC-XM631	SNC-XM632	SNC-XM636	SNC-XM637	SNC-HM662	SNC-DH110T	SNC-DH110
							
Video Compression Format	H.264 (High/Main/Baseline Profile)/JPEG				H.264 (High/Main/Baseline Profile)/JPEG	H.264/MPEG-4/JPEG	
Multi Streaming Capability	Yes (3)	Yes (3)	Yes (3)	Yes (3)	Yes (3)	Yes (2)	Yes (2)
Maximum Resolution	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	2560 x 1920	1280 x 960	1280 x 960
IR Illuminator	No	No	No	No	No	No	No
Built-in Speaker and Microphone	No	Yes (built-in microphone)	Yes (built-in microphone)	Yes (built-in microphone)	Yes (built-in microphone)	No	No
Ingress Protection	No	IP66	IP66	IP66	IP66	No	No
Vandal Resistance	IK10	IK10	IK10	IK10	IK10	IK10	IK10
Horizontal Viewing Angle	113°	113°	83°	113°	182°	79°	80.7°
Zoom Ratio	3x digital zoom	3x digital zoom	3x digital zoom	3x digital zoom	12x digital zoom	NA	NA
Focal Length	f = 2.8 mm	f = 2.8 mm	f = 3.8 mm	f = 2.8 mm	f = 0.98 mm to 1.12 mm	f = 2.34 mm	f = 2.34 mm
Lens	Fixed lens	Fixed lens	Fixed lens	Fixed lens	Fixed lens	Built-in fixed focal lens	Built-in fixed focal lens
360° Hemispheric/180° Panoramic View Modes	No	No	No	No	Yes	No	No
Image 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	1/2.9-type progressive scan Exmor CMOS sensor	1/2.5-type progressive scan CMOS sensor	1/3.8-type progressive scan CMOS sensor	1/3.8-type progressive scan CMOS sensor
Wide-D	View-DR	View-DR	View-DR	View-DR	Yes	No	No
Tone Correction	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Yes	No	No
Dynamic Range	Equivalent to 90 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	NA	NA
Minimum Illumination (50 IRE)	Color: 0.3 lx, B/W: 0.3 lx (F2.0, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)	Color: 0.3 lx, B/W: 0.3 lx (F2.0, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)	Color: 0.3 lx, B/W: 0.3 lx (F2.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)	Color: 0.3 lx, B/W: 0.3 lx (F2.0, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)	Color: 0.7 lx, B/W: 0.01 lx (F2.0, AGC ON, 1/30 s, 10 fps)	5.5 lx (AGC 30 dB)	5.0 lx (AGC 30 dB)
Maximum Frame Rate	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	30 fps (H.264/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 960/720
Day/Night	Electronic D/N	Electronic D/N	Electronic D/N	Electronic D/N	Yes	Electronic D/N	Electronic D/N
Noise Reduction	XDNR	XDNR	XDNR	XDNR	No	Yes	Yes
Image Stabilizer	Electronic	Electronic	Electronic	Electronic	No	No	No
Edge Storage	Yes	Yes	Yes	Yes	Yes	No	No
Card Slots	SD card x1	SD card x1	SD card x1	SD card x1	micro SD card x1	No	No
Wireless Network	No	No	No	No	No	No	No
Analog Video/Monitor Output	No	No	No	No	No	Yes	Yes
Analytics Architecture	DEPA Advanced	DEPA Advanced	DEPA Advanced	DEPA Advanced	No	DEPA	DEPA
ONVIF Conformance	Profile S	Profile S	Profile S	Profile S	Profile S	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), DC 12 V	IEEE802.3af compliant (PoE system)	IEEE802.3af compliant (PoE system)
Power Consumption	4.0 W max.	10 W max. (heater ON) 3.8 W max. (heater OFF) (equivalent to PoE Class 1)	10 W max. (heater ON) 3.8 W max. (heater OFF) (equivalent to PoE Class 1)	10 W max. (heater ON) 3.8 W max. (heater OFF) (equivalent to PoE Class 1)	6.0 W max.	2.4 W max.	2.4 W max.
Operating Temperature	-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)	0°C to +50°C (32°F to 122°F)	0°C to +50°C (32°F to 122°F)
Dimensions	ø104.5 x 56.5 mm (ø4 1/8 x 2 1/4 inches)	Approx. ø114 x 47 mm (ø4 1/2 x 1 7/8 inches)	Approx. ø114 x 47 mm (ø4 1/2 x 1 7/8 inches)	Approx. ø114 x 47 mm (ø4 1/2 x 1 7/8 inches)	Approx. 145 x 145 x 36.3 mm (5.71 x 5.71 x 1.43 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)

Rapid Dome and PTZ Network Cameras







P/T/Z: Pan/Tilt/Zoom

Series Name	W Series				E Series	
Model Name	SNC-WR632C	SNC-WR602C	SNC-WR630	SNC-WR600	SNC-ER585	SNC-ER585H
						
Video Compression Format	H.264 (High/Main/Baseline Profile)/JPEG				H.264/MPEG-4/JPEG	
Multi Streaming Capability	Yes (3)	Yes (3)	Yes (3)	Yes (3)	Yes (2)	Yes (2)
Maximum Resolution	1920 x 1080	1280 x 720	1920 x 1080	1280 x 720	1920 x 1080	1920 x 1080
Ingress Protection	IP66	IP66	No	No	IP66	IP66
Vandal Resistance	IK10	IK10	No	No	IK10	IK10
Horizontal Viewing Angle	63.7° to 2.3°	58.3° to 2.1°	63.7° to 2.3°	58.3° to 2.1°	59.5° to 2.1°	59.5° to 2.1°
Zoom Ratio	30x optical zoom	30x optical zoom	30x optical zoom	30x optical zoom	30x optical zoom	30x 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
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
Wide-D	View-DR	View-DR	View-DR	View-DR	DynaView™	DynaView
Tone Correction	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	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	86 dB (theoretical) with DynaView technology
Minimum Illumination (50 IRE)	Color: 0.4 lx, B/W: 0.03 lx (F1.6, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)	Color: 0.2 lx, B/W: 0.015 lx (F1.6, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)	Color: 0.4 lx, B/W: 0.03 lx (F1.6, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)	Color: 0.2 lx, B/W: 0.015 lx (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)
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 720	60 fps (H.264) at 1920 x 1080, 60 fps (JPEG) at 1280 x 720	60 fps (H.264/JPEG) at 1280 x 720	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
Day/Night	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
Image Stabilizer	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
Defog Image Processing	Yes	Yes	Yes	Yes	No	No
Edge Storage	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
Wireless Network	No	No	No	No	No	No
Analog Video/Monitor Output	Yes	Yes	Yes	Yes	No	No
"Rapid Dome" or "PTZ"	Rapid Dome	Rapid Dome	Rapid Dome	Rapid Dome	Rapid Dome	Rapid Dome
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°
Pan Speed	700°/s (max.)	700°/s (max.)	700°/s (max.)	700°/s (max.)	300°/s (max.)	300°/s (max.)
Analytics Architecture	DEPA Advanced	DEPA Advanced	DEPA Advanced	DEPA Advanced	DEPA	DEPA
ONVIF Conformance	Profile S	Profile S	Profile S	Profile S	Profile S	Profile S
Power Requirements	HPoE+ (*2), AC 24 V	HPoE+ (*2), 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
Power Consumption	Max. 30 W (AC 24 V/HPoE+, heater OFF) Max. 80 W (AC 24 V, heater ON) Max. 55 W (HPoE+, heater ON)	Max. 30 W (AC 24 V/HPoE+, heater OFF) Max. 80 W (AC 24 V, heater ON) Max. 55 W (HPoE+, heater ON)	25 W max.	25 W max.	75 W max. (heater ON)/ 25 W max. (heater OFF)	25 W max.
Operating Temperature	AC 24 V: -40°C to +50°C (-40°F to +122°F) HPoE+ (*2): -30°C to +50°C (-22°F to +122°F)	AC 24 V: -40°C to +50°C (-40°F to +122°F) HPoE+ (*2): -30°C to +50°C (-22°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)
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 204.5 mm (ø5 7/8 x 8 1/8 inches)	ø146.3 x 204.5 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)

(*) When using DynaView technology, the maximum frame rate becomes 15 fps. (*2) Power supply is generated from PowerDsine® 9501G/B by using 4 wires.

Rapid Dome and PTZ Network Cameras

P/T/Z: Pan/Tilt/Zoom

Series Name	E Series					
Model Name	SNC-ER580	SNC-EP580	SNC-ER550	SNC-EP550	SNC-ER520/ER521 ^(*)	SNC-EP520/EP521 ^(*)
						
Video Compression Format	H.264/MPEG-4/JPEG					
Multi Streaming Capability	Yes (2)	Yes (2)	Yes (2)	Yes (2)	Yes (2)	Yes (2)
Maximum Resolution	1920 x 1080	1920 x 1080	1280 x 720	1280 x 720	720 x 480/720 x 576 ^(*)	720 x 480/720 x 576 ^(*)
Ingress Protection	No	No	No	No	No	No
Vandal Resistance	No	No	No	No	No	No
Horizontal Viewing Angle	55.4° to 2.9°	55.4° to 2.9°	55.9° to 2.1°	55.9° to 2.1°	57.8° to 1.7°	57.8° to 1.7°
Zoom Ratio	20x optical zoom	20x optical zoom	28x optical zoom	28x optical zoom	36x optical zoom	36x optical zoom
Focal Length	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	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	1/2.8-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	1/4-type EXview HAD CCD	1/4-type EXview HAD CCD
Wide-D	DynaView	DynaView	DynaView	DynaView	DynaView	DynaView
Tone Correction	No	No	No	No	No	No
Dynamic Range	86 dB (theoretical) with DynaView technology	86 dB (theoretical) with DynaView technology	86 dB (theoretical) with DynaView technology	86 dB (theoretical) with DynaView technology	92 dB (theoretical) with DynaView technology	92 dB (theoretical) with DynaView technology
Minimum Illumination (50 IRE)	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)	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)
Maximum Frame Rate	30 fps (H264)/20 fps (MPEG-4)/16 fps (JPEG) ^(*) at 1920 x 1080	30 fps (H264)/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	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	Yes	Yes	Yes	Yes
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	SD/SDHC card x1	SD/SDHC card x1	SD/SDHC card x1	SD/SDHC card x1
Wireless Network	No	No	No	No	No	No
Analog Video/Monitor Output	No	No	No	No	No	No
"Rapid Dome" or "PTZ"	Rapid Dome	PTZ	Rapid Dome	PTZ	Rapid Dome	PTZ
Pan/Tilt Angle (Powered)	360° endless rotation/210°	340°/105°	360° endless rotation/210°	340°/105°	360° endless rotation/210°	340°/105°
Pan Speed	300°/s (max.)	300°/s (max.)	300°/s (max.)	300°/s (max.)	300°/s (max.)	300°/s (max.)
Analytics Architecture	DEPA	DEPA	DEPA	DEPA	DEPA	DEPA
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	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	25 W max.	25 W max.	25 W max.	25 W max.	25 W max.	25 W max.
Operating Temperature	-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)	-5°C to +50°C (23°F to 122°F)	-5°C to +50°C (23°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)	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)

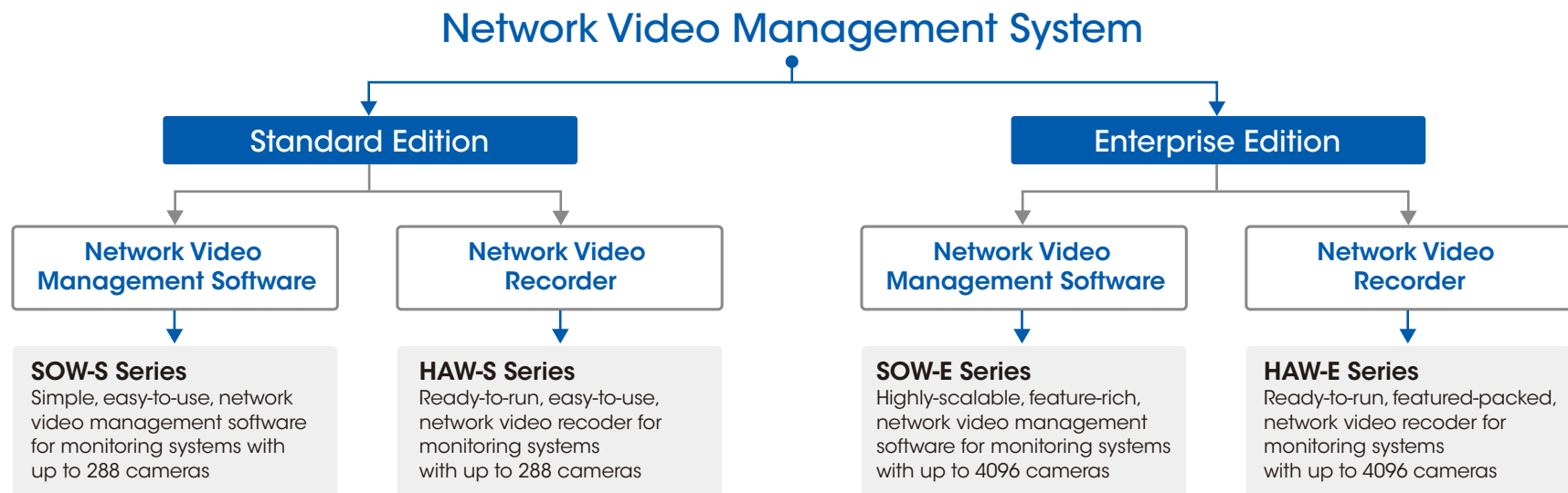
^(*) When using DynaView technology, the maximum frame rate becomes 15 fps.

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

Network Video Management System

Network Video Management System enhances Recording, Content Management and Monitoring

The new Video Management System comprises server-based video management software (VMS) and network video recorders (NVRs). It offers monitoring professionals a flexible, fully customizable solution for managing, storing and analyzing video footage from your fleet of network cameras, including 4K.



Note: The SOW-S and SOW-E Series network video management software and HAW-S and HAW-E Series network video recorders are not compatible with each other, and cannot be used in the same system.

Network Video Management System

SOW Series/HAW Series – Software Specification

Software Feature	Standard Edition	Enterprise Edition
Number of connected cameras per system	288	4096
Max number of camera per server	32	4096
Max number of server per system	9	64
Multiple Monitor Support	Yes	Yes
Interactive Playback	Yes	Yes
Mobile Client	Yes	Yes
Web Client	Yes	Yes
Video Push from Mobile Client	Yes	Yes
Alarm Manager	Yes*	Yes
Map	Yes	Yes
Multiple video export formats	Yes	Yes
Dual stream (live and recording) per camera	Yes	Yes
Archiving to network storage	Yes	Yes
Device group	-	Yes
Microsoft Active Directory support	-	Yes
Centralized management	-	Yes
Flexible event rule engine	-	Yes
System Monitor	-	Yes
Edge Storage	-	Yes
Smart Wall	-	Option

* With limited function



HAW Series - Hardware Specification

	Standard Edition	Enterprise Edition
Number of Drives	6 Drives (3.5")	8 Drives (3.5")
Max number of camera	32*	100**
OS	Windows Embedded Standard 7 Runtime (WS7P)	Windows Embedded Standard 7 Runtime (WS7P)
RAID	Levels: RAID0, RAID1, RAID3, RAID5, RAID10, RAID1E, RAID30, RAID50, RAID6	Levels: RAID0, RAID1, RAID3, RAID5, RAID10, RAID1E, RAID30, RAID50, RAID6, RAID60
Drive Type	SATA (6G/s), Hot Swappable	SATA (6G/s), Hot Swappable
Network	2x Gigabit Ethernet (RJ45)	2x Gigabit Ethernet (RJ45)
USB Ports	2x USB2.0 (Rear), 4x USB3.0 (2x Front, 2x Rear)	6x USB3.0 (2x Front, 4x Rear), 2x USB2.0 (2x Rear)
HDMI	1x HDMI (max. resolution: 1920 x 1200)	1x HDMI (max. resolution: 4096 x 2160)
VGA	1x HD15 (max. resolution: 1920 x 1200)	1x HD15 (max. resolution: 2048 x 1536)
Display Port	N/A	1x DisplayPort
PS/2	1x Keyboard, 1x Mouse	N/A
Audio	Mic-in, Line-out	Mic-in, Line-in, Line-out, S/PDIF-out
AC Input	100-240 V, 50-60 Hz	100-240 V, 50-60 Hz
Dimensions (H x W x D)	88.5 x 440 x 395 mm	88.5 x 447 x 410 mm

* 720P, 30fps, H.264, RAID5+hot spare, 690KB/s 1 stream per camera, 16ch remote live view, No remote playback, No mobile device, No recording data overwrite, Use 6 HDD (ST4000NM0033)

** 720P, 30fps, H.264, RAID5+hot spare, 1350KB/s, 1 stream per camera, 16ch remote live view, No remote playback, No mobile device, No recording data overwrite, Use 8 HDD (ST4000NM0033)

Surveillance Video Encoders

	Full Function	
	1CH Box	4CH Box
	SNT-EX101E	SNT-EX104
		
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)
Video Compression Format	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)
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)
PTZ Control	Yes	Yes
Tone Correction	Visibility Enhancer (VE)	Visibility Enhancer (VE)
Noise Reduction	XDNR	XDNR
Coaxitron Control	Yes	Yes
Serial Interface	RS-422/RS-485	RS-485
USB Slots	x 1 (*)	x 4 (*)
Sensor Input	x 2	x 4
Alarm Output	x 2	x 4
Audio Interface (IN/OUT)	IN x 1, OUT x 1	IN x 4, OUT x 4
Audio Support	Full Duplex	Full Duplex
Analytics Architecture	DEPA Advanced	DEPA Advanced
ONVIF Conformance	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)	210 x 44 x 250 mm (8 3/8 x 1 3/4 x 9 7/8 inches)
Power Requirements	PoE (Class 2)	DC12V

(*) 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/>)

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