SONY

Network Surveillance Products

Full Line and Accessory Guide

summer 2019

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Sony Naming Conventions

EB640

VM772R

SNC - X X 0 0 0 X

1 Letter Series Name · 2 Letter Format Factor · 3 Digit Generation · 4 Digit Resolution · 5 Digit Detailed Factor · 6 Letter Detailed Factor

Series Name		Form Factor		Generation		Resolution		Detailed Factor		Detailed Factor	
W value added	W	Box	B	Gen 6	6	HD	0	Indoor	0	IR illuminator	R
Value added	V	Landscape (Multi-sensor)	L	Gen 7	7	FHD	3	Indoor Vandal	1	Harden use	H
Entry level	E	Minidome	M	Gen 8	8	Exmor R FHD	4	Outdoor	2	Wireless	W
eXtreme value	X	Pan/Tilt/Zoom (PTZ)	P	Gen X	X	5M~	5/6	Half inch	5	Basic	B
Compact	C	Rapid dome	R			4K ~ 20MP	7	Train Normal	6	Dual Light	D
Hemispheric	H							Train Wide	7	Cold Weather	C

VM641

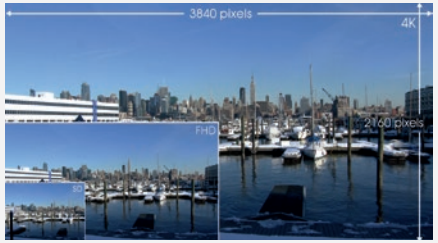
WR602C

Sony Network Security Cameras (SNC-models)

Indoor				Outdoor		
Fixed	Minidome	Pan Tilt Zoom		Fixed	Minidome	Pan Tilt Zoom
 **VB770** 12 MP	 **HMX70** 12 MP  **EMX50R** 5 MP  **EMX50** 5 MP		**5 MP ~ 20 MP**		 **VM772R** 20 MP  **WL862** 20 MP (4x5 MP)  **HMX72** 12 MP  **EMX52R** 5 MP	
 **VB640**  **EB640**	 **VM641**  **EM641**  **EMX30R**  **EMX30**  **XM631**	 **WR630**	**Full HD**	 **VB642D**  **EB642R**	 **VM642R**  **EM642R**  **EMX32R**  **XM632**  **XM636**  **XM637**	 **WR632C**
 **VB600**  **EB600/EB600B**	 **VM601**  **VM600**  **EM601**  **EM600**	 **WR600**	**HD**	 **EB602R**	 **VM602R**  **EM602RC**	 **WR602C**

See everything, miss nothing. With extraordinary 4K technology.

What is 4K?
Sony's 4K camera allows you to see everything and miss nothing. Quite simply, 4K means image resolution that is four times higher than full HD. That means much greater detail and better clarity than what you can see on current HDTVs.



Simulated image

Why 4K?
Because of the exceptional detail provided by 4K technology, security professionals can increase wide area surveillance, yet still capture, magnify, and examine the smallest parts of a scene.

This makes 4K cameras ideal for critical security applications like city surveillance, transportation, parking lots, and campuses.

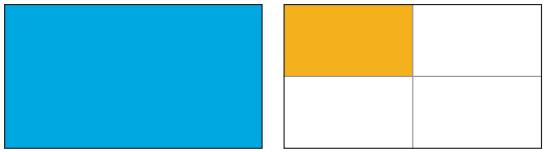
Why Sony?
As a leader in sensor technology and image processing, Sony has developed several unique technologies to address existing high megapixel imaging challenges, even enhance operation flow and efficiencies. One of the important capabilities required for outdoor installations is sensitivity.

On top of that, as the resolution increases, the handling of the larger size of image data and storage needs to be addressed as well.

Sony offers two 4K network cameras, SNC-VM772R and SNC-VB770, that address sensitivity, storage and bandwidth challenges and concerns.

Light Sensitivity

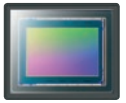
Generally, the larger the cell or sensor size to capture light, the more sensitive it is.

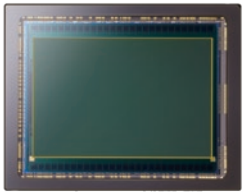

HD: Amount of light per pixel

4K: Amount of light per pixel

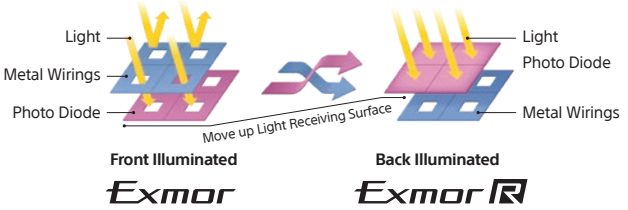
As the imaging sensor size becomes larger, so does the cell size.


1/2.9-type
(Conventional
Full HD)


1.0-type
(SNC-VM772R)
Exmor R


35mm Full-Frame
(SNC-VB770)
Exmor
CMOS Sensor

However, with innovative sensor design and manufacturing, such as using "on chip" lenses that the Exmor Sensor uses, or moving the sensing layer to the top of the imaging sensor as in Exmor R, greater sensitivity is achieved.



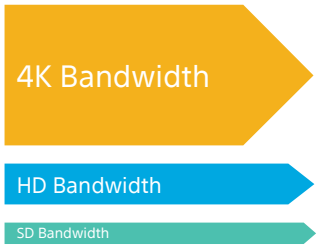
In the SNC-VM772R, there's a built-in infrared illuminator to capture clear 4K images even in near darkness. This camera also has an industry-leading 2.9x zoom lens that is perfectly matched to the image sensor.

With over 16x sensitivity to see color in low light compared to the SNC-VM772R, the ultrahigh-sensitivity SNC-VB770 enables smooth 4K/30 fps color video in almost pitch-black conditions.

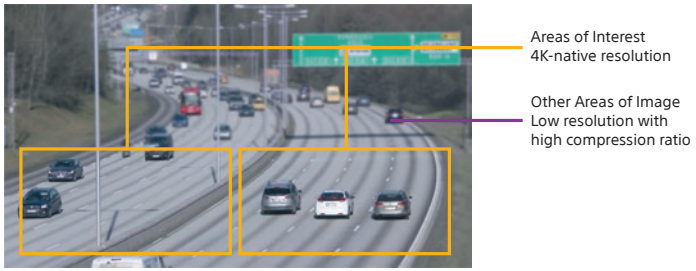
All of these advancements improve light sensitivity and provide better image quality in 4K.

Storage and Bandwidth Consumption

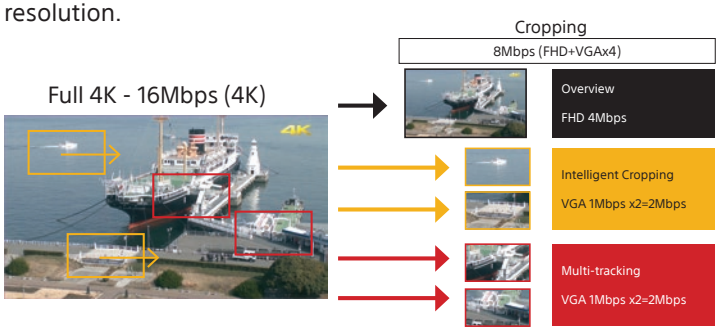
When resolution goes up, bandwidth consumption also increases. This makes deploying 4K cameras appear to be more expensive than deploying HD cameras. However it does not have to be the case.



Sony's Intelligent Coding uses H.264 dynamic and static region of interest coding techniques. This allows you to choose critical areas where resolution detail needs to be sharpest. In addition, dynamic region of interest automatically detects and tracks motion and applies lower compression to achieve clearer images.



For additional system efficiencies, the SNC-VM772R and SNC-VB770 utilize Intelligent Cropping and Multi-Tracking, so that you may select portions of the image (or regions of interest—ROI) that you want to see in 4K—up to four areas simultaneously with a 4K-native resolution, while viewing the overall image in Full HD resolution.



This results in lower bandwidth consumption by reducing the amount of video transmitted in 4K resolution.

Function to Improve Picture Quality

The 4K camera also provides a wide selection of settings for optimal picture quality. For instance, the Intelligent Scene Capture function automatically adjusts and adapts the picture's brightness and color, depending on the time of day, weather, and lighting conditions to achieve the best picture quality.

Beyond 4K

Sony's SNC-VM772R 4K camera also comes with a 20 megapixel sensor, and the SNC-VB770 4K camera uses a 12 megapixel sensor which includes the Evidence Shot feature. This feature can produce resolution beyond 4K and is ideal for the collection and analysis of high-quality forensic evidence in situations like city surveillance, parking lots, and garages.

Full HD 4K 20 megapixels

A wider world of 4K applications

Sony 4K delivers maximum return on your investment – in cities, transport networks, as well as critical infrastructure and smart buildings. A single 4K camera gives you the whole scene and every changing detail, all at the same time. Identify objects and people, and analyze their behavior with unprecedented confidence and accuracy in a wide range of environments.

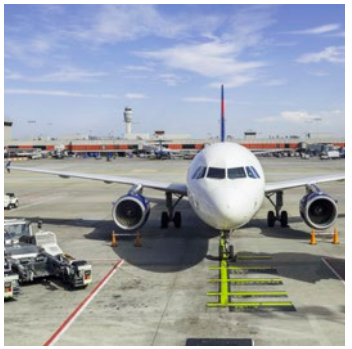
Class-leading image quality teamed with powerful analytics can help users – from retail stores to international airports – to better understand the large-scale movements of thousands of people, vehicles and goods. Harnessing this information with the latest development in Artificial Intelligence and machine learning can yield even better, more profitable customer experiences.

Track goods seamlessly along the entire logistics chain

Keep traffic and crowds moving

Ensure fluent operations 24/7

Manage building resources efficiently



Control transport flow more efficiently than ever before

Discover more 4K solutions for security and beyond at www.boschsecurity.com/sonyvideosecurity > Solutions

4K Network Cameras

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 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 (Streams)	■ (5)	■ (5)
Maximum Resolution	4240 x 2832	5472 x 3648
IR Illuminator	–	■
Built-in microphone	–	–
Audio in/Audio out	■ / ■	■ / ■
I/O ports	2/2	2/2
Ingress Protection	–	IP66
Vandal Resistance	–	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
WDR / Tone correction	View-DR / Visibility Enhancer (VE)	View-DR / Visibility Enhancer (VE)
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	–	True D/N
Noise Reduction	XDNR	XDNR
Image Stabilizer	–	Optical
Intelligent Scene Capture	■	■
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	SD card slot	SD card slot
ONVIF Conformance	Profile S	Profile S
Power Requirements	12V DC/ 24V AC/ PoE **	12V DC/ 24V AC/ PoE **
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") (without lens)	ø190 x 146.7 mm (ø7 1/2 inches x 5 7/8")

■ Available – Not available
* Please refer to the website specifications area
** PoE = IEEE-802.3af; PoE+ = IEEE-802.3at; HPoE+ = IEEE-802.3at extended

Fixed Network Cameras

Series Name	V Series		
Model Name	SNC-VB642D	SNC-VB640	SNC-VB600
			
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 (Streams)	■ (3)	■ (3)	■ (3)
Maximum Resolution	1920 x 1080	1920 x 1080	1280 x 1024
IR Illuminator / White-light LED Illuminator	■ / ■	– / –	– / –
Built-in microphone	–	–	–
Audio in/Audio out	■ / ■	■ / ■	■ / ■
I/O ports	2 / 2	2 / 2	2 / 2
Vandal Resistant/ Ingress Protection	IP66 / IK08	–	–
Horizontal Viewing Angle	105.3° to 35.6°	114.2° to 40.0°	100.0° to 35.7°
Zoom Ratio	3x optical zoom 4x digital zoom 12x total zoom	2.9x optical zoom 4x digital zoom 11.6x total zoom	2.9x optical zoom 4x digital zoom 11.6x total zoom
Focal Length	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	CS-mount varifocal lens	CS mount varifocal lens
Image Sensor	1/2.8-type progressive scan Exmor R CMOS sensor	1/2.8-type progressive scan Exmor R CMOS sensor	1/3-type progressive scan Exmor CMOS sensor
WDR / Tone correction	View-DR / Visibility Enhancer (VE)	View-DR / Visibility Enhancer (VE)	View-DR / 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
Minimum Illumination (30 IRE)	Color: 0.006 lx, B/W: 0 lx (IR LED On) (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)	Color: 0.006 lx, B/W: 0.005 lx (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)	Color: 0.03 lx, B/W: 0.02 lx (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)
Maximum Frame Rate	Up to 60 fps *	Up to 60 fps *	Up to 60 fps *
Day/Night	True D/N	True D/N	True D/N
Noise Reduction	XDNR	XDNR	XDNR
Image Stabilizer	Electronic	Electronic	Electronic
Edge storage	SD card slot	SD card slot	SD card slot
Analog Video/Monitor Output	■	■	■
Analytics Architecture	DEPA Advanced	DEPA Advanced	DEPA Advanced
ONVIF Conformance	Profile S	Profile S	Profile S
Power Requirements	12V DC/ 24V AC/ PoE / PoE+ **	12V DC/ 24V AC/ PoE **	12V DC/ 24V AC/ PoE **
Operating Temperature	-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) *
Dimensions	93 × 93 × 180.9 mm (3 3/4 x 3 3/4 x 7 1/8") ø140 x 313.4 mm (ø5 5/8 x 12 3/8") including arm	72 x 63 x 145 mm (2 7/8 x 2 1/2 x 5 3/4") without lens 72 x 63 x 199 mm (2 7/8 x 2 1/2 x 7 7/8") with lens	72 x 63 x 197 mm (2 7/8 x 2 1/2 x 7 7/8") with lens

■ Available – Not available
* Please refer to the website specifications area
** PoE = IEEE-802.3af; PoE+ = IEEE-802.3at; HPoE+ = IEEE-802.3at extended

Fixed Network Cameras

Series Name	E Series				
Model Name	SNC-EB642R	SNC-EB602R	SNC-EB640	SNC-EB600	SNC-EB600B
					
Video Compression Format	H.264 (High/Main/Baseline Profile)/JPEG				
Multi Streaming Capability (Streams)	■ (3)	■ (3)	■ (3)	■ (3)	■ (3)
Maximum Resolution	1920 x 1080	1280 x 1024	1920 x 1080	1280 x 1024	1280 x 1024
IR Illuminator / White-light LED Illuminator	■ / –	■ / –	– / –	– / –	– / –
Built-in microphone	–	–	–	–	–
Audio in/Audio out	■ / ■	– / –	■ / ■	– / –	– / –
I/O ports	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0
Vandal Resistant/ Ingress Protection	IP66 / IK08	IP66 / –	– / –	– / –	– / –
Horizontal Viewing Angle	105.3° to 35.6°	92.9° to 31.8°	114.2° to 40.0°	92.5° to 35.7°	92.5° to 35.7°
Zoom Ratio	3x optical zoom 4x digital zoom 12x total zoom	3x optical zoom 4x digital zoom 12x total zoom	2.9x optical zoom 4x digital zoom 11.6x total zoom	2.7x optical zoom 4x digital zoom 10.8x total zoom	2.7x optical zoom 4x digital zoom 10.8x total 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	f = 3.0 mm to 8.0 mm	f = 3.0 mm to 8.0 mm
Lens	Built-in varifocal lens	Built-in varifocal lens	CS-mount varifocal lens	CS mount varifocal lens	CS mount varifocal lens
Image Sensor	1/2.8-type progressive scan Exmor R CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/2.8-type progressive scan Exmor R CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor
WDR / Tone correction	View-DR / Visibility Enhancer (VE)	View-DR / Visibility Enhancer (VE)	View-DR / Visibility Enhancer (VE)	View-DR / Visibility Enhancer (VE)	View-DR LT / 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 90 dB with View-DR technology
Minimum Illumination (30 IRE)	Color: 0.006 lx, B/W: 0 lx (IR LED On) (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)	Color: 0.03 lx, B/W: 0 lx (IR LED On) (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)	Color: 0.006 lx, B/W: 0.005 lx (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)	Color: 0.03 lx, B/W: 0.02 lx (F1.0, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)	Color: 0.03 lx, B/W: 0.02 lx (F1.0, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)
Maximum Frame Rate	Up to 60 fps *	Up to 30 fps *	Up to 60 fps *	Up to 30 fps *	Up to 30 fps *
Day/Night	True D/N	True D/N	True D/N	True D/N	Electronic D/N
Noise Reduction	XDNR	XDNR	XDNR	XDNR	XDNR
Image Stabilizer	Electronic	Electronic	Electronic	Electronic	Electronic
Edge Storage	SD card slot	–	SD card slot	–	–
Analog Video/Monitor Output	■	■	■	■	■
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	PoE **	PoE **	PoE **	PoE **	PoE **
Operating Temperature	-30°C to +50°C (14°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) *	-10°C to +50°C (14°F to 122°F) *
Dimensions	93 × 93 × 180.9 mm (3 3/4 x 3 3/4 x 7 1/8") ø140 x 313.4 mm (ø5 5/8 x 12 3/8") including arm	93 × 93 × 160.9 mm (3 3/4 x 3 3/4 x 6 3/8")	72 x 63 x 145 mm (2 7/8 x 2 1/2 x 5 3/4") without lens 72 x 63 x 199 mm (2 7/8 x 2 1/2 x 7 7/8") with lens	72 x 63 x 188 mm (2 7/8 x 2 1/2 x 7 1/2") with lens	72 x 63 x 188 mm (2 7/8 x 2 1/2 x 7 1/2") with lens

■ Available – Not available
* Please refer to the website specifications area
** PoE = IEEE-802.3af; PoE+ = IEEE-802.3at; HPoE+ = IEEE-802.3at extended

Minidome Network Cameras

Series Name	V Series				
Model Name	SNC-VM642R	SNC-VM602R	SNC-VM641	SNC-VM601	SNC-VM600
					
Video Compression Format	H.264 (High/Main/Baseline Profile)/JPEG				
Multi Streaming Capability (Streams)	■ (3)	■ (3)	■ (3)	■ (3)	■ (3)
Maximum Resolution	1920 x 1080	1280 x 1024	1920 x 1080	1280 x 1024	1280 x 1024
IR Illuminator	■	■	–	–	–
Built-in microphone	–	–	–	–	–
Audio in/Audio out	■ / ■	■ / ■	■ / ■	■ / ■	■ / ■
I/O ports	2 / 2	2 / 2	2 / 2	2 / 2	2 / 2
Vandal Resistant/ Ingress Protection	IP66 / IK10	IP66 / IK10	– / IK10	– / IK10	–
Horizontal Viewing Angle	105.3° to 35.6°	92.9° to 31.8°	105.3° to 35.6°	92.9° to 31.8°	92.9° to 31.8°
Zoom Ratio	3x optical zoom 4x digital zoom 12x total zoom	3x optical zoom 4x digital zoom 12x total zoom	3x optical zoom 4x digital zoom 12x total zoom	3x optical zoom 4x digital zoom 12x total 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	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
360° View	–	–	–	–	–
Image Sensor	1/2.8-type progressive scan Exmor R CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/2.8-type progressive scan Exmor R CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor
WDR / Tone correction	View-DR / Visibility Enhancer (VE)	View-DR / Visibility Enhancer (VE)	View-DR / Visibility Enhancer (VE)	View-DR / Visibility Enhancer (VE)	View-DR / 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
Minimum Illumination (30 IRE)	Color: 0.006 lx, B/W: 0 lx (IR LED On) (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)	Color: 0.03 lx, B/W: 0 lx (IR LED On) (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)	Color: 0.006 lx, B/W: 0.005 lx (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)	Color: 0.03 lx, B/W: 0.02 lx (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)	Color: 0.03 lx, B/W: 0.02 lx (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)
Maximum Frame Rate	Up to 60 fps *	Up to 60 fps *	Up to 60 fps *	Up to 60 fps *	Up to 60 fps *
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	SD card slot	SD card slot	SD card slot	SD card slot	SD card slot
Analog Video/Monitor Output	■	■	■	■	■
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	12V DC / 24V AC/ PoE / PoE+ **	12V DC / 24V AC/ PoE / PoE+ **	12V DC / 24V AC/ PoE / PoE+ **	12V DC / 24V AC / PoE **	12V DC / 24V AC / PoE **
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) *
Dimensions	ø166 x 128 mm (ø6 5/8 x 5 1/8")	ø166 x 128 mm (ø6 5/8 x 5 1/8")	ø148 x 108 mm (ø5 7/8 x 4 3/8")	ø148 x 109 mm (ø5 7/8 x 4 3/8")	ø148 x 109 mm (ø5 7/8 x 4 3/8")

■ Available – Not available

* Please refer to the website specifications area

** PoE = IEEE-802.3af; PoE+ = IEEE-802.3at; HPoE+ = IEEE-802.3at extended

*** 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.

Minidome Network Cameras

Series Name	E Series					
Model Name	SNC-EM642R	SNC-EM602RC	SNC-EM641	SNC-EM601	SNC-EM630	SNC-EM600
						
Video Compression Format	H.264 (High/Main/Baseline Profile)/JPEG					
Multi Streaming Capability (Streams)	■ (3)	■ (3)	■ (3)	■ (3)	■ (3)	■ (3)
Maximum Resolution	1920 x 1080	1280 x 1024	1920 x 1080	1280 x 1024	1920 x 1080	1280 x 1024
IR Illuminator	■	■	–	–	–	–
Built-in microphone	–	–	–	–	–	–
Audio in/Audio out	■ / ■	– / –	■ / ■	– / –	– / –	– / –
I/O ports	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0
Vandal Resistant/ Ingress Protection	IP66 / IK10	IP66 / IK10	– / IK10	– / IK10	– / –	– / –
Horizontal Viewing Angle	105.3° to 35.6°	92.9° to 31.8°	105.3° to 35.6°	92.9° to 31.8°	105.3° to 35.6°	92.9° to 31.8°
Zoom Ratio	3x optical zoom 4x digital zoom 12x total zoom	3x optical zoom 4x digital zoom 12x total zoom	3x optical zoom 4x digital zoom 12x total zoom	3x optical zoom 4x digital zoom 12x total zoom	3x optical zoom 4x digital zoom 12x total 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	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
360° View	–	–	–	–	–	–
Image Sensor	1/2.8-type progressive scan Exmor R CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/2.8-type progressive scan Exmor R 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
WDR / Tone correction	View-DR / Visibility Enhancer (VE)	View-DR / Visibility Enhancer (VE)	View-DR / Visibility Enhancer (VE)	View-DR / Visibility Enhancer (VE)	View-DR / Visibility Enhancer (VE)	View-DR / 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 90 dB with View-DR technology	Equivalent to 130 dB with View-DR technology
Minimum Illumination (30 IRE)	Color: 0.006 lx, B/W: 0 lx (IR LED On) (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)	Color: 0.03 lx, B/W: 0 lx (IR illuminator On) (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)	Color: 0.006 lx, B/W: 0.005 lx (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)	Color: 0.03 lx, B/W: 0.02 lx (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)	Color: 0.06 lx, B/W: 0.05 lx (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)	Color: 0.03 lx, B/W: 0.02 lx (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)
Maximum Frame Rate	Up to 60 fps *	Up to 30 fps *	Up to 60 fps *	Up to 30 fps *	Up to 30 fps *	Up to 30 fps *
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	SD card slot	–	SD card slot	–	–	–
Analog Video/Monitor Output	■	■	■	■	■	■
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	PoE **	PoE **	PoE **	PoE **	PoE **	PoE **
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) *, ***	-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 (ø6 5/8 x 5 1/8")	ø166 x 129 mm (ø6 5/8 x 5 1/8")	ø148 x 108 mm (ø5 7/8 x 4 3/8")	ø148 x 108 mm (ø5 7/8 x 4 3/8")	ø148 x 108 mm (ø5 7/8 x 4 3/8")	ø148 x 108 mm (ø5 7/8 x 4 3/8")

■ Available – Not available
* Please refer to the website specifications area
** PoE = IEEE-802.3af; PoE+ = IEEE-802.3at; HPoE+ = IEEE-802.3at extended
*** 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.

Minidome Network Cameras

Series Name	EMX Series					
Model Name	SNC-EMX30	SNC-EMX30R	SNC-EMX32R	SNC-EMX50	SNC-EMX50R	SNC-EMX52R
						
Video Compression Format	H.265; H.264; M-JPEG					
Multi Streaming Capability (Streams)	■ (3)	■ (3)	■ (3)	■ (3)	■ (3)	■ (3)
Maximum Resolution	1920 x 1080 (FHD)	1920 x 1080 (FHD)	1920 x 1080 (FHD)	3072 x 1728 (5MP)	3072 x 1728 (5MP)	3072 x 1728 (5MP)
IR Illuminator	–	10 LED 850 nm	10 LED 850 nm	–	10 LED 850 nm	10 LED 850 nm
Built-in speaker and microphone	■	■	–	■	■	–
Audio In / Audio out	■ / ■	■ / ■	■ / ■	■ / ■	■ / ■	■ / ■
I/O ports	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
Vandal Resistant / Ingress Protection	– / –	– / –	IP66 / IK10	– / –	– / –	IP66 / IK10
Horizontal Viewing Angle	34° to 101°	34° to 101°	34° to 101°	29° to 92°	29° to 92°	29° to 92°
Zoom Ratio	3.3 x Motorized zoom/focus	3.3 x Motorized zoom/focus	3.3 x Motorized zoom/focus	3.3 x Motorized zoom/focus	3.3 x Motorized zoom/focus	3.3 x Motorized zoom/focus
Focal Length	f = 3 to 10 mm	f = 3 to 10 mm	f = 3 to 10 mm	f = 3 to 10 mm	f = 3 to 10 mm	f = 3 to 10 mm
Lens	Easy vari-focal lens, IR corrected DC Iris F1.3	Easy vari-focal lens, IR corrected DC Iris F1.3	Easy vari-focal lens, IR corrected DC Iris F1.3	Easy vari-focal lens, IR corrected DC Iris F1.3	Easy vari-focal lens, IR corrected DC Iris F1.3	Easy vari-focal lens, IR corrected DC Iris F1.3
360° View	–	–	–	–	–	–
Image Sensor	1/2.9" Exmor CMOS sensor	1/2.9" Exmor CMOS sensor	1/2.9" Exmor CMOS sensor	1/2.9" Exmor R CMOS sensor	1/2.9" Exmor R CMOS sensor	1/2.9" Exmor R CMOS sensor
WDR / Tone correction	– / ■	– / ■	– / ■	■ / ■	■ / ■	■ / ■
Dynamic Range	85 dB (measured according IEC 62676 Part 5)	85 dB (measured according IEC 62676 Part 5)	85 dB (measured according IEC 62676 Part 5)	107 dB (measured according IEC 62676 Part 5)	107 dB (measured according IEC 62676 Part 5)	107 dB (measured according IEC 62676 Part 5)
Minimum Illumination (30 IRE)	Color: 0.12 lx, B/W: 0.02 lx, IR LED on: 0.0 lx (F1.3, AGC On, 1/25 s, 30 fps)	Color: 0.12 lx, B/W: 0.02 lx, IR LED on: 0.0 lx (F1.3, AGC On, 1/25 s, 30 fps)	Color: 0.12 lx, B/W: 0.02 lx, IR LED on: 0.0 lx (F1.3, AGC On, 1/25 s, 30 fps)	Color: 0.24 lx, B/W: 0.03 lx, IR LED on: 0.0 lx (F1.3, AGC On, 1/25 s, 30 fps)	Color: 0.24 lx, B/W: 0.03 lx, IR LED on: 0.0 lx (F1.3, AGC On, 1/25 s, 30 fps)	Color: 0.24 lx, B/W: 0.03 lx, IR LED on: 0.0 lx (F1.3, AGC On, 1/25 s, 30 fps)
Maximum Frame Rate	Up to 30 fps	Up to 30 fps	Up to 30 fps	Up to 30 fps	Up to 30 fps	Up to 30 fps
Day/Night	True D/N	True D/N	True D/N	True D/N	True D/N	True D/N
Noise Reduction	Intelligent Dynamic Noise Reduction with separate temporal and spatial adjustments					
Image Stabilizer	–	–	–	–	–	–
Edge Storage	SD card slot	SD card slot	SD card slot	SD card slot	SD card slot	SD card slot
Analog Video/Monitor Output	■	■	■	■	■	■
Analytics Architecture	Essential Video Analytics	Essential Video Analytics	Essential Video Analytics	Essential Video Analytics	Essential Video Analytics	Essential Video Analytics
ONVIF Conformance	Profile S, G, T	Profile S, G, T	Profile S, G, T	Profile S, G, T	Profile S, G, T	Profile S, G, T
Power Requirements	+12 VDC ±5%, 24 VAC ±10% or Power-over-Ethernet (48 VDC nominal)					
Operating Temperature	-20°C to +50°C (-4°F to +122°F)	-20°C to +50°C (-4°F to +122°F)	-40°C to +50°C (-40°F to +122°F)	-20°C to +50°C (-4°F to +122°F)	-20°C to +50°C (-4°F to +122°F)	-40°C to +50°C (-40°F to +122°F)
Dimensions	ø148 x 104 mm (5.81 x 4.09")	ø148 x 104 mm (5.81 x 4.09")	ø165 x 128 mm (6.50 x 5.04")	ø148 x 104 mm (5.81 x 4.09")	ø148 x 104 mm (5.81 x 4.09")	ø165 x 128 mm (6.50 x 5.04")

■ Available – Not available

* Please refer to the website specifications area

** PoE = IEEE-802.3af; PoE+ = IEEE-802.3at; HPoE+ = IEEE-802.3at extended

*** 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.

Minidome Network Cameras

Series Name	X Series				H Series		W Series
Model Name	SNC-XM631	SNC-XM632	SNC-XM636	SNC-XM637	SNC-HMX70	SNC-HMX72	SNC-WL862
							
Video Compression Format	H.264 (High/Main/Baseline Profile)/JPEG				H.264/JPEG	H.264/JPEG	H.265, H.264; M-JPEG
Multi Streaming Capability (Streams)	■ (3)	■ (3)	■ (3)	■ (3)	■ (3)	■ (3)	■ (3)
Maximum Resolution	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	2640 x 2640	2640 x 2640	2560 x 1920 (5MP) x 4
IR Illuminator	–	–	–	–	–	–	–
Built-in microphone	–	■	■	■	■	–	■
Audio In / Audio out	– / –	– / –	– / –	– / –	– / –	– / –	■ / ■
I/O ports	1 / 1	0 / 0	0 / 0	0 / 0	1 / 1	1 / 1	1 / 1
Vandal Resistant/ Ingress Protection	– / IK10	IP66 / IK10	IP66 / IK10	IP66 / IK10	– / –	IP66 / IK10	IP66/IK10
Horizontal Viewing Angle	113°	113°	83°	113°	360°	360°	360˚
Zoom Ratio	4x digital zoom	4x digital zoom	4x digital zoom	4x digital zoom	Digital zoom (depend on operating mode)	Digital zoom (depend on operating mode)	12x digital zoom
Focal Length	f = 2.8 mm	f = 2.8 mm	f = 3.8 mm	f = 2.8 mm	f = 1.6 mm	f = 1.6 mm	f = 3.7 – 7.7 mm
Lens	Fixed lens	Fixed lens	Fixed lens	Fixed lens	Fixed-focus lens (IR corrected), F2.8	Fixed-focus lens (IR corrected), F2.8	3.7 to 7.7 mm Easy focus/ Easy zoom F1.9 vari-focal lens
360° View	–	–	–	–	■ with onboard dewarping	■ with onboard dewarping	4x90° Adjustable view***
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	1/2.3" Exmor R CMOS sensor	1/2.3" Exmor R CMOS sensor	1/2.3" CMOS sensor
WDR / Tone correction	View-DR / Visibility Enhancer (VE)	View-DR / Visibility Enhancer (VE)	View-DR / Visibility Enhancer (VE)	View-DR / 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	92dB	92 dB	WDR
Minimum Illumination (30 IRE)	Color: 0.18 lx, B/W: 0.18 lx (F2.0, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)	Color: 0.18 lx, B/W: 0.18 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: 0.18 lx, B/W: 0.18 lx (F2.0, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)	Color 0.55 lx, B/W 0.18 lx	Color 0.55 lx, B/W 0.18 lx	Color 0.17 lx, B/w 0.035 lx, (F1.9)
Maximum Frame Rate	Up to 30 fps *	Up to 30 fps *	Up to 30 fps *	Up to 30 fps *	30 fps in 360 mode, 12.5 fps dewarped in camera	Up to 30 fps *	Up to 30 fps *
Day/Night	Electronic D/N	Electronic D/N	Electronic D/N	Electronic D/N	True D/N	True D/N	True D/N
Noise Reduction	XDNR	XDNR	XDNR	XDNR	Intelligent Dynamic Noise Reduction	Intelligent Dynamic Noise Reduction	Intelligent Dynamic Noise Reduction
Image Stabilizer	Electronic	Electronic	Electronic	Electronic	–	–	–
Edge Storage	SD card slot	SD card slot	SD card slot	SD card slot	SD card slot	SD card slot	MicroSD card slot
Analog Video/Monitor Output	–	–	–	–	–	–	–
Analytics Architecture	DEPA Advanced	DEPA Advanced	DEPA Advanced	DEPA Advanced	Essential Video Analytics	Essential Video Analytics	Motion Detection
ONVIF Conformance	Profile S	Profile S	Profile S	Profile S	Profile S, G, T	Profile S, G, T	Profile S
Power Requirements	PoE **	PoE **	PoE **	PoE **	PoE **	PoE+ **	PoE+ **
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) *	-20°C to +40°C (-4°F to 104°F) *	-30°C to +45°C (-22°F to 113°F)	-40°C to +50°C (-40°F to 122°F)
Dimensions	ø104.5 x 56.5 mm (ø4 1/8 x 2 1/4")	Approx. ø114 x 47 mm (ø4 1/2 x 1 7/8")	Approx. ø114 x 47 mm (ø4 1/2 x 1 7/8")	Approx. ø114 x 47 mm (ø4 1/2 x 1 7/8")	158mm (6.22") dia. 34mm (1.34") flush mount height / 68mm (2.68") total height.	174.9 x 108.4 mm (6.886 x 4.267")	Ø 210 x 110.4 mm (8.268 x 4.346") with cover plate Ø 210 x 96.7 mm (8.268 x 3.807 in) without cover plate

■ Available – Not available

* Please refer to the website specifications area

** PoE = IEEE-802.3af; PoE+ = IEEE-802.3at; HPoE+ = IEEE-802.3at extended

*** Pan: "pan - track" 90 to 120° each lens; Tilt: 0° to 105° each lens; Rotation: -90° to +90° each lens

Rapid Dome and PTZ Network Cameras

P/T/Z: Pan/Tilt/Zoom

Series Name	W Series			
Model Name	SNC-WR632C	SNC-WR602C	SNC-WR630	SNC-WR600
				
Video Compression Format	H.264 (High/Main/Baseline Profile)/JPEG			
Multi Streaming Capability	■ (3)	■ (3)	■ (3)	■ (3)
Maximum Resolution	1920 x 1080	1280 x 720	1920 x 1080	1280 x 720
Built-in microphone	–	–	–	–
Audio In / Audio out	■ / ■	■ / ■	■ / ■	■ / ■
I/O ports	4 / 2	4 / 2	4 / 2	4 / 2
Vandal Resistant/ Ingress Protection	IP66 / IK10	IP66 / IK10	– / –	– / –
Horizontal Viewing Angle	63.7° to 2.3°	58.3° to 2.1°	63.7° to 2.3°	58.3° to 2.1°
Zoom Ratio	30x optical zoom 12x digital zoom 360x total zoom	30x optical zoom 12x digital zoom 360x total zoom	30x optical zoom 12x digital zoom 360x total zoom	30x optical zoom 12x digital zoom 360x total 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
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
WDR / Tone correction	View-DR / Visibility Enhancer (VE)	View-DR / Visibility Enhancer (VE)	View-DR / Visibility Enhancer (VE)	View-DR / Visibility Enhancer (VE)
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)
Minimum Illumination (30 IRE)	Color: 0.24 lx, B/W: 0.018 lx (F1.6, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)	Color: 0.12 lx, B/W: 0.009 lx (F1.6, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)	Color: 1.0 lx, B/W: 0.1 lx (F1.6, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)	Color: 0.4 lx, B/W: 0.01 lx (F1.6, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)
Maximum Frame Rate	Up to 60 fps *	Up to 60 fps *	Up to 60 fps *	Up to 60 fps *
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
Defog Image Processing	■	■	■	■
Edge Storage	SD card slot	SD card slot	SD card slot	SD card slot
Analog Video/Monitor Output	■	■	■	■
"Rapid Dome" or "PTZ"	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°
Pan Speed	700°/s (max.)	700°/s (max.)	700°/s (max.)	700°/s (max.)
Analytics Architecture	DEPA Advanced	DEPA Advanced	DEPA Advanced	DEPA Advanced
ONVIF Conformance	Profile S	Profile S	Profile S	Profile S
Power Requirements	HPoE+ (*1), AC 24 V **	HPoE+ (*1), AC 24 V **	12V DC / 24V AC/ PoE+ **	12V DC / 24V AC/ PoE+ **
Operating Temperature	AC 24 V: -40°C to +50°C (-40°F to +122°F) *	AC 24 V: -40°C to +50°C (-40°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")	ø222.0 x 324.1 mm (ø8 3/4 x 12 7/8")	ø146.3 x 204.5 mm (ø5 7/8 x 8 1/8")	ø146.3 x 204.5 mm (ø5 7/8 x 8 1/8")

■ Available – Not available

* Please refer to the website specifications area

** PoE = IEEE-802.3af; PoE+ = IEEE-802.3at; HPoE+ = IEEE-802.3at extended

(*1) Power supply can be generated from the Bosch NPD-6001A which is a High Power, 60W Single Port POE Midspan with AC in.

Seamless integration to meet any challenge

Sony video security cameras integrate seamlessly with a wide range of leading security technology vendors and solutions. Our cameras are interoperable with most video management systems via native Sony integration as well as the ONVIF protocol, ensuring flexible and robust solutions in any environment. You'll benefit from cutting edge imaging, analytics and operability with your existing systems, other preferred vendor products and best in class security solutions from an expanding network of technology partners.

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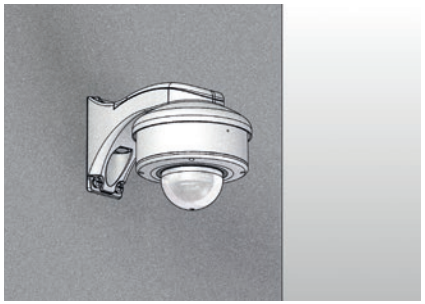
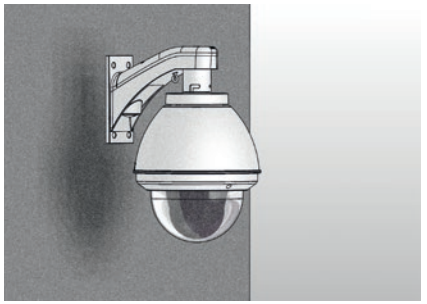
Mount Options and Enclosures



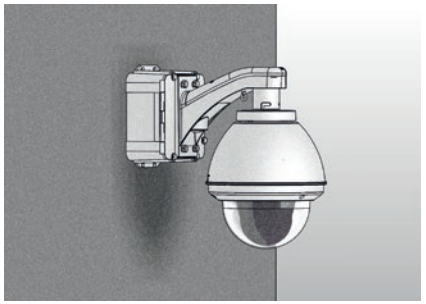
Wall Mount Bracket

- SNC-VM772R, with UNI-MDPVM722 pendant cap, mounted on UNI-WMB7 wall bracket



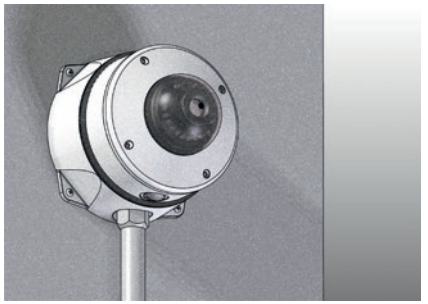
Wall Mount Bracket

- UNI-WMB3 - low profile wall mount for outdoor PTZ models and PTZ housings



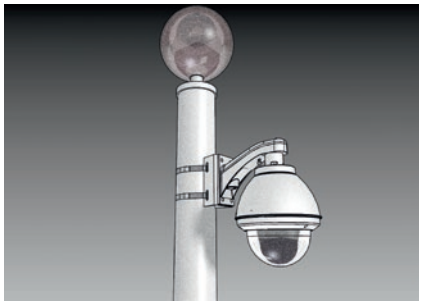
Power Block Unit (Wall/Pole Mount)

- UNI-PBU1 power box, shown with UNI-WMB3 and UNI-ONL7C2 PTZ housing



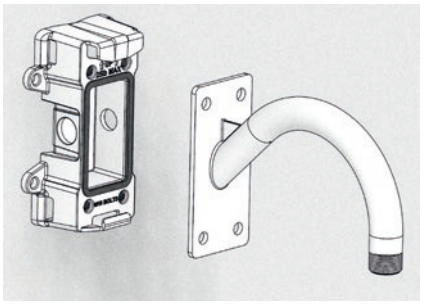
Wall/Pole Mount

- UNI-BBB2 back box for outdoor minidome cameras, shown with SNC-EM642R



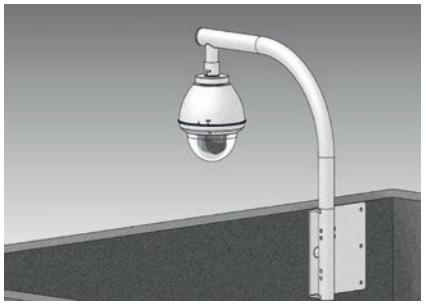
Pole Mount Adapter

- UNI-PMA1 pole-mount adaptor, shown with UNI-WMB3 and UNI-ONL7C2 PTZ housing



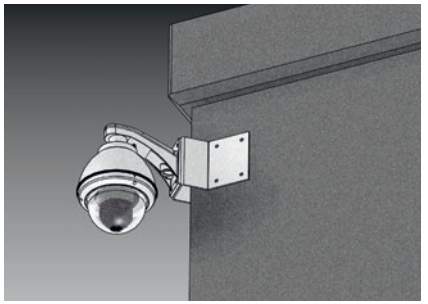
Surface/Pole Mount Adapter

- UNI-WMBB1 back-box for use with UNI-WMB3 or UNI-WMB4, suitable for pole or wall mounting



Roof Mount (Parapet)

- UNI-RMB1 parapet mount for use with Outdoor PTZ and PTZ housings



Corner Mount

- UNI-CMA1 corner mount adaptor, compatible with UNI-WMB3 or UNI-WMB4 (Not available in EMEA region, use UNI-CMA3 instead)


UNI-MDP2


UNI-MDP3


UNI-PBU24
UNI-PBU120
UNI-PBU230


UNI-PMA2L


UNI-PMA2S


UNI-WMB4


UNI-WMB15

IP Minidome Cameras Enclosures and Mounts

How to select a camera and mount: Choose a Camera → Select Outdoor or Indoor Use → If you select Outdoor, select the type of Wall Mount → If you select the Gooseneck Wall Mount you can stop or continue to select an adapter (ie: Conduit Box, Corner Adapter, or Pole Adapter). → If you select Indoor, select the type of Enclosure: → If you choose Pendant Enclosures, select a type of mount – Gooseneck Wall, Conduit Box or Corner Adapter → If you choose Flush/Recessed, then select Plenum Enclosure or Bracket Mounting Kit (selection is complete)

IP Minidome CAMERAS		OUTDOOR						INDOOR								OPTIONAL DOME COVER	LENS	AUDIO		STORAGE
		SURFACE	PENDANT WALL MOUNT and ADAPTERS					WALL	PENDANT	PENDANT WALL MOUNT and ADAPTERS				FLUSH / RECESSED						
SERIES	MODEL NAME	BACKBOX	PENDANT CAP	GOOSENECK WALL	CONDUIT BOX	CORNER ADAPTER	POLE/ADAPTER	WALL BRACKET	PENDANT CAP ONLY	GOOSENECK WALL	CONDUIT BOX	CORNER ADAPTER	POLE ADAPTER	PLENUM ENCLOSURE	BRACKET - MOUNTING KIT	SMOKE DOME COVER		MICRO-PHONE	SPEAKER	SD CARDS
G6 X Series	SNC-XM631	–	–	–	–	–	–	–	–	UNI-WMB4 (requires UNI-MDPDH120 [*1] or UNI-MDPEM600 cap sold separately)	UNI-WMBB1 (can be pole mounted with included straps)	UNI-CMA1	UNI-PMA1	–	–	–	SNCA-L038MF SNCA-L060MF SNCA-L120MF	Built-in	–	SR-32VMA SR-64VMA SR-G1VMA
	SNC-XM632		UNI-MDPDH120 and UNI-XMPLATE [*1]	UNI-WMB4	UNI-WMBB1 (can be pole mounted with included straps) UNI-MDPBK-BOX1/2 [*2]	UNI-CMA1	UNI-PMA1 UNI-PMA2D/T [*2]													
	SNC-XM636																			
	SNC-XM637																			
G6 E&V Series Indoor Minidome	SNC-EM600	–	–	–	–	–	–	UNI-UMB1	UNI-MDPDH120 [*1] or UNI-MDPEM600	UNI-WMB4 (requires UNI-MDPDH120 [*1] or UNI-MDPEM600 cap sold separately)	–	UNI-CMA1	UNI-PMA1	–	YT-ICB600	YT-LD600S	–	–	–	–
	SNC-EM630																			
	SNC-VM600																	SCA-M30 (for indoor use)	SCA-S30 (requires separate 24VAC power)	SR-32VMA SR-64VMA SR-G1VMA
G6 E&V Series Indoor Vandal Minidome	SNC-EM601															YT-LD601S		–	–	–
	SNC-EM641																			
	SNC-VM601																	SCA-M30 (for indoor use)	SCA-S30 (requires separate 24VAC power)	SR-32VMA SR-64VMA SR-G1VMA
	SNC-VM641																			
EMX-Series (Indoor)	SNC-EMX30	–	–	–	–	–	–	UNI-UMB1	UNI-MDPDH120 [*1] or UNI-MDPEM600	UNI-WMB4 (requires UNI-MDPDH120 [*1] or UNI-MDPEM600 cap sold separately)	–	UNI-CMA1	UNI-PMA1	–	Coming soon	–	–	–	SCA-S30 (requires separate 24VAC power)	SR-32VMA SR-64VMA SR-G1VMA
	SNC-EMX30R																			
	SNC-EMX50																			
	SNC-EMX50R																			
EMX-Series (Outdoor)	SNC-EMX32R	UNI-BBB2 (can also be pole mounted with included hardware)	UNI-MDPDH180	UNI-WMB4 (requires UNI-MDPDH180 cap sold separately) UNI-MDB3 UNI-MDW1/T [*2]	UNI-WMBB1 (can be pole mounted with included straps) UNI-MDPBKBOX1/2 [*2]	UNI-CMA1	UNI-PMA1 UNI-PMA2D/T [*2]	–	–	–	–	–	–	–	Coming soon	–	–	–		SR-32VMA SR-64VMA SR-G1VMA
	SNC-EMX52R																			
G6 E&V Series Outdoor Dome	SNC-EM602RC	UNI-BBB2 (can also be pole mounted with included hardware)	UNI-MDPDH180	UNI-WMB4 (requires UNI-MDPDH180 cap sold separately) UNI-MDB3 UNI-MDW1/T [*2]	UNI-WMBB1 (can be pole mounted with included straps) UNI-MDPBKBOX1/T [*2]	UNI-CMA1	UNI-PMA1 UNI-PMA2D/T [*2]	–	UNI-MDPDH180	UNI-WMB4 (requires UNI-MDPDH180 cap sold separately) UNI-MDB3 UNI-MDW1/T [*2]	UNI-WMBB1 (can be pole mounted with included straps) UNI-MDPBKBOX1/T [*2]	UNI-CMA1	UNI-PMA1 UNI-PMA2D/T [*2]	–	YT-ICB45	UNI-LD280	–	–	–	–
	SNC-EM642R																			
	SNC-VM602R																	–	SCA-S30 (requires separate 24VAC power)	SR-32VMA SR-64VMA SR-G1VMA
	SNC-VM642R																			
360° View	SNC-HMX70	–	–	–	–	–	–	–	UNI-C1CHMX70	UNI-WMB15	UNI-OBBP1 (requires UNI-P1C15 or UNI-WMB15) or UNI-PBU24 UNI-PBU120 UNI-PBU230	–	UNI-P1C15 UNI-PMTEXT20 (optional; only with UNI-P1C15)	UNI-ILDHMX	–	–	–	Built-in	–	SR-32VMA SR-64VMA SR-G1VMA
	SNC-HMX72		UNI-MDP3	UNI-WMB15	UNI-OBBP1 (requires UNI-P1C15 or UNI-WMB15) OR UNI-PBU24 UNI-PBU120 UNI-PBU230	–	UNI-PMTEXT20 (only with UNI-P1C15) UNI-PMA2S (requires UNI-WMB15) UNI-PMA2L (requires UNI-PMA2L)	–	UNI-MDP2	–	–	–	–	–				–		
Multi-sensor	SNC-WL862		UNI-MDP4						–									SCA-M30 (for indoor use)	SCA-S30 (requires separate 24VAC power)	

■ Available – Not available [*1] Items are only available in North and Latin America [*2] Items are only available in Europe, Middle East and Africa


UNI-MDPDH180


UNI-MDPX


UNI-MDPDH120
UNI-MDPEM600


UNI-MDB3


UNI-MDW1/T


UNI-UMB1


UNI-P1C15
UNI-OBBP1
UNI-C1CHMX70
UNI-PMTEXT20


UNI-PMA1


UNI-PMA2D/T


UNI-CMA1


YT-ICB45
YT-ICB600


UNI-ILDHMX


UNI-BBB2


UNI-WMBB1


UNI-MDPBKBOX1/T


UNI-IBBHMX70


SNCA-L038MF
SNCA-L060MF
SNCA-L120MF

IP Rapid Dome and PTZ Cameras Enclosures and Mounts

How to select a camera and mount: Choose a Camera > Select Outdoor or Indoor Use > If you select Outdoor, select the type of Enclosure: > If you choose one of the following: – Flush/Recessed (selection is complete) – Surface (selection is complete) > If you choose one of the Pendant Enclosures: – Pressurized, Ruggedized, or Normal, select a type of mount – Parapet, Low Profile Wall or Gooseneck > If you select the Low Profile Wall Mount or the Gooseneck Wall Mount you can stop or continue to select an adapter (ie: Wall Surface Conduit Box, Corner Adapter, Pole Adapter or Power Block). Adapters not needed for Parapet Roof Mount.

IP RAPID DOME AND PTZ		OUTDOOR											
		SURFACE	PENDANT ENCLOSURES			PENDANT MOUNTS AND ADAPTERS (FOR ENCLOSURES AND OUTDOOR MODELS)							DOME COVER
SERIES	MODEL NAME	FLUSH / RECESSED	PRESSURIZED	RUGGEDIZED	NORMAL	PARAPET ROOF	LOW PROFILE WALL MOUNT	GOOSENECK WALL	WALL SURFACE (CONDUIT) BOX	CORNER ADAPTER	POLE/ADAPTER	POWER BLOCK	OPTIONAL / REPLACEMENT DOME COVER
G6 Indoor PTZ -SNC-WR600/630	SNC-WR600	UNI-OFL7C2	UNI-OPL7C2	UNI-ORL7C2	UNI-ONL7C2	UNI-RMB1 UNI-RMB2 [*1]	UNI-WMB3	UNI-WMB1	UNI-WMBB1	UNI-CMA1	UNI-PMA1 (does not include pole straps) or UNI-WMBB1 (includes pole straps)	UNI-PBU1	
	SNC-WR630												
Outdoor PTZ - SNC-WR602C/632C - SNC-ER585 - UNION Series	SNC-WR602C	–	–	–	–								YT-LDR632S
	SNC-WR632C												
	UNI-ONEP520C7 [*1]												UNI-RD7C UNI-RD7T
	UNI-ONEP550C7 [*1]												
	UNI-ONEP580C7 [*1]												
	UNI-ONER520C7 [*1]												
	UNI-ONER550C7 [*1]												
	UNI-ONER580C7 [*1]												
	UNI-ONEP520C2 [*1]												
	UNI-ONEP550C2 [*1]												
	UNI-ONEP580C2 [*1]												
	UNI-ONER520C2 [*1]												
	UNI-ONER550C2 [*1]												
	UNI-ONER580C2 [*1]												

■ Available – Not available
[*1] Items are only available in North and Latin America

If you select Indoor, select the type of Enclosure:

If you choose Flush/Recessed, then select Normal Enclosure or Bracket Mounting Kit (selection is complete)

If you choose one of the Pendant Enclosures:
– Ruggedized or Normal, select a type of mount – Gooseneck Wall or Low Profile Wall and stop or select either the Conduit Box or Corner Adapter

INDOOR									AUDIO		STORAGE
FLUSH / RECESSED		PENDANT ENCLOSURES		PENDANT MOUNTS AND ADAPTERS (FOR ENCLOSURES AND OUTDOOR MODELS)				WALL MOUNT			
NORMAL ENCLOSURE	BRACKET - MOUNTING KIT	RUGGEDIZED	NORMAL	GOOSENECK WALL	LOW PROFILE WALL MOUNT	CONDUIT BOX	CORNER ADAPTER	NON-PENDANT WALL BRACKET	MICROPHONE	SPEAKER	SD CARDS
UNI-ID7C3 (Clear) / UNI-ID7T3 (Tinted)	YT-ICB630	UNI-IRL7C2 (Clear) / UNI-IRL7T2 (Tinted) [*1]	UNI-INL7C2 (Clear) / UNI-INL7T2 (Tinted) [*1]	UNI-WMB1	UNI-WMB3	UNI-WMBB1	UNI-CMA1	UNI-UMB1	SCA-M30 (for indoor use)	SCA-S30 (requires separate 24VAC power)	SR-32VMA SR-64VMA SR-G1VMA
–	–	–	–	–	–	–	–	–	–	SCA-S30 (requires separate 24VAC power)	


UNI-OFL7C2 (clear)
UNI-OFL7T2 (tinted)


UNI-ONL7C2 (clear)
UNI-ONL7T2 (tinted)


UNI-OPL7C2 (clear)
UNI-OPL7T2 (tinted)


UNI-IRL7C2 (clear)
UNI-IRL7T2 (tinted)


UNI-ID7C3 (clear)
UNI-ID7T3 (tinted)

C2 - AC24V input, AC24V output inside dome.
C3 - no electronics. Cables are direct feed to camera.


UNI-RD7C


UNI-RD7T


YT-LDR632S

UNI-RMB1
UNI-RMB2


UNI-WMB1


UNI-WMB3


UNI-CMA1


UNI-PMA1


UNI-WMBB1


UNI-PBU1


YT-ICB124
YT-ICB630


UNI-UMB1

IP Fixed Cameras Enclosures and Mounts

How to select a camera and mount: Choose a Camera ▶ Select Outdoor or Indoor Use ▶ If you select Outdoor, select the type of Enclosure: ▶ If you select Indoor, select the type of Enclosure: ▶ If you choose Flush/Recessed, then select Normal Enclosure or Bracket Mounting Kit (selection is complete)

IP FIXED CAMERAS		OUTDOOR		INDOOR			AUDIO		STORAGE
		SURFACE	ENCLOSURES / MOUNTS	WALL MOUNT		FLUSH / RECESSED	MICROPHONE	SPEAKER	SD CARDS
Series	MODEL NAME	BACKBOX	ENCLOSURE W/WALL MOUNT	WALL MOUNT W/ ENCLOSURE	WALL MOUNT ONLY	PLENUM ENCLOSURE			
Indoor Fixed Box Cameras	SNC-EB600	–	UNI-ORBC2 UNI-ORBC6 UNI-OTBC2 UNI-OTBC6 UNI-OPBC6 SNC-UNIHB/1 [*1]	SNC-UNI [*1]	–	UNI-IFF7C3 (clear) UNI-IFF7T3 (tinted)	–	–	–
	SNC-EB640						SCA-M30 (for indoor use)	SCA-S30 (requires separate 24VAC power)	SR-32VMA SR-64VMA SR-G1VMA
	SNC-VB600								
	SNC-VB640								
Outdoor Bullet Cameras	SNC-EB602R	Bullet Cameras can use optional UNI-BBB1 back box suitable for surface wall or pole mount. Includes pole mounting straps.	Bullet Cameras can use optional UNI-BBB1 back box suitable for surface wall or pole mount. Includes pole mounting straps.	Bullet Cameras can use optional UNI-BBB1 back box suitable for surface wall or pole mount. Includes pole mount-ing straps.	Bullet Cameras can use optional UNI-BBB1 back box suitable for surface wall or pole mount. Includes pole mounting straps.	–	–	–	–
	SNC-EB642R						SCA-M30 (for indoor use)	SCA-S30 (requires separate 24VAC power)	SR-32VMA SR-64VMA SR-G1VMA
	SNC-VB642D								

■ Available – Not available
[*1] Items are only available in North and Latin America

UNI-IFF7C3 (clear)
UNI-IFF7T3 (tinted)

UNI-BBB1

UNI-ORBC2
UNI-ORBC6
UNI-OTBC2
UNI-OTBC6

UNI-OPBC6

SNC-UNI
SNC-UNIHB/1

4K Cameras Enclosures, Mounts, Lens Bundles and SD Cards

4K CAMERAS		OUTDOOR			INDOOR		AUDIO		STORAGE
SERIES	MODEL NAME	PENDANT	WALL MOUNT	POLE MOUNT	PENDANT	WALL MOUNT	MICROPHONE	SPEAKER	SD CARDS
4K Indoor/Outdoor Dome	SNC-VM772R	UNI-MDPVM772	UNI-WMB7 with pendant cap from UNI-MDPVM772	UNI-WMBB1 or UNI-PMA1	UNI-MDPVM772	UNI-WMB7 with pendant cap from UNI-MDPVM772	–	SCA-S30 (requires separate 24VAC power)	SR-32VMA SR-64VMA SR-G1VMA
4K Fixed Ultra-Low Light Box Camera	SNC-VB770	–	UNI-E2DG8	UNI-E2DG8	–	UNI-E2DG8	SCA-M30 (for indoor use)		
	SNC-VB770/K4								
	SNC-VB770/K5								

■ Available – Not available

UNI-MDPVM772

UNI-WMB7

UNI-WMBB1

UNI-PMA1

UNI-E2DG8

SNC-VB770 LENS BUNDLES		
	SNC-VB770/K4	SNC-VB770/K5
		
SNC-VB770 4K Fixed Ultra-Low Light Box Camera	Sony Fixed camera 4K with SELP28135G	Sony Fixed camera 4K with SEL70200GM

SD Cards		
SR-32VMA	SR-64VMA	SR-G1VMA
		
Sony IP Security microSD card 32GB	Sony IP Security microSD card 64GB	Sony IP Security microSD card 128GB

UNI series is a third-party item. For more details, availability or any other questions on accessories please contact your regional Sony Video Security Sales at Bosch.
www.boschsecurity.com/sonyvideosecurity

Glossary

Adaptive IR

Adaptive IR analyzes camera's captured images and adjusts the intensity of brightness of the camera's built-in IR LEDs to prevent overexposure of close object images. The SNC-VM772R 4K camera adopts a new version of Advanced IR, which is equipped with two types of IR LED, each for short and long distances, and adjusts them independently to match the zoom setting providing the best IR images with the appropriate exposure even for near and far objects.

Advanced IR

Advanced IR technology provides high-quality IR images without overexposure, providing clear B/W images of close and distant objects.

Bit Rate Control Mode

Constant Bit Rate (CBR)

Sony's constant bit rate (CBR) algorithm helps to optimize the image quality while maintaining a constant bit rate from the camera. It allows users to easily predict required data storage and network capacity since the amount of data can be calculated based on the predefined bit rate value.

Variable Bit Rate (VBR)

Variable bit rate (VBR) is an encoding method where the bit rate varies proportionally to the amount of movement and detail in the scene. In a simple scene (such as an empty corridor), the compression ratio can be higher, providing a lower bit rate. As the level of detail and movement increases, the compression ratio can be reduced to maintain high image quality; this creates much higher bit rates, and helps to provide the best image.

Variable Bit Rate with Cap (VBR with Cap)

Sony's variable bit rate with cap (VBR with cap) is an advanced version of the VBR method. Users can set a maximum target bit rate (cap) for encoding, but the bit rate is unrestricted and can vary, responding to changes in image complexity. When the bit rate exceeds the cap value, the compression ratio is automatically adjusted to drop the bit rate below the target value, reducing network load while maintaining high picture quality. For planning purposes, by referring to the cap value, users can plan storage resources in a similar manner as with CBR encoding.

Clear Image Zoom

Thanks to Sony's proprietary By Pixel Super Resolution Technology, the Clear Image Zoom feature can enlarge an image by up to 2x without degrading picture quality (a problem that is often seen with a conventional digital zoom.) Combine the SNC-VM772R 4K camera with its optical 2.9x lens, and you can achieve a high-quality zoom of up to 5.8x.

Defog Image Processing

The Defog Image Processing feature is capable of clearing up fog, mist, and haze in a scene, resulting in better image visibility.

DEPA™ System

With a DEPA system from Sony, DEPA-enabled cameras send not only video images but also related metadata (including object size and position data) to a DEPA-enabled recorder. Since part of the image processing is done on the camera side, the load to the recorder is reduced, enabling camera expansion. Conventional video analytic systems, on the other hand, process images solely on the recorder side often causing CPU overload.

DEPA Advanced

DEPA Advanced is an enhanced DEPA technology. Unlike DEPA, a camera incorporating DEPA Advanced completes the entire DEPA analysis (such as intrusion detection with a virtual borderline) on the camera side, and sends only an alarm to the recorder. Since analytic processing is completed in the camera, end users can benefit from DEPA Advanced because it can be easily integrated with a variety of recorders and/or video management solutions.

Distortion Correction

Distortion Correction is a camera function that compensates for image distortion that occurs mainly at the periphery of the lens typically appearing as barrel distortion by using the camera's image processing engine, and provides high picture quality with less distortion.

Dual-light System

The dual-light system offers effective surveillance and crime deterrence/safety with a combination of IR and white-light illuminators. When darkness falls, the camera's on-board infrared (IR) illuminator switches on automatically to capture clear black and white images. Then if there's movement within its field of view, the camera automatically triggers its integrated white LED illuminator, bathing the immediate scene in light. The illuminator can also be spotted clearly from far away. The illuminator's sudden switch-on also provides a powerful visual warning to unexpected visitors. At the same time, the camera switches automatically to color video mode, capturing detail-packed images in color to assist with positive identification of the subject.

Easy Focus

The feature allows the installer or user the ability to focus the camera remotely using a PC or locally.

Easy Zoom

This feature allows the installer or user the ability to change the field of view locally or remotely using a PC.

Edge Storage (onboard recording with memory cards)

The Edge Storage function records video and audio data with memory cards (such as SD and micro SD cards) attached to the camera. It can be used for fail-over data backup if the network is disconnected due to unstable network conditions or other difficulties. It can also be used for event recording when the recording is started by an alarm signal triggered by the camera's video analytics functions (such as Intelligent Motion Detection and Tamper Alarm), as well as by user-defined rules of DEPA™ and DEPA Advanced technologies. This function also enables scheduled recording, for convenient local storage.

The recorded data can be transmitted to network video recorders (NVR)/video management software (VMS) and merged with data saved on the NVR/VMS storage. SD cards capable of an Edge Storage Maintenance Notification function* are recommended for these applications.

* Memory cards have a finite lifespan that is reduced over time by recording. With the Edge Storage Maintenance Notification function, users can obtain remotely the lifespan information of cards attached to the camera.

Edge Storage Maintenance Notification

When using SD cards with an Edge Storage Maintenance Notification function, users can obtain the lifespan information of an SD card attached to the camera via various methods such as web browsers, e-mail notification, alarm output, CGI commands, and system logs in a timely manner.

Electronic D/N

This function allows the camera to automatically switch to Day or Night mode depending on the light level.

Electronic Image Stabilizer

Electronic Image Stabilizer electronically compensates for movement in captured images using image processing. Two images captured back and forth by the camera are recorded to its buffer memory, calculated their distance and compensated for movement. This helps to minimize the effect of camera shake or vibration and achieve less blurry images.

e-Varifocal

The e-Varifocal feature allows the installer to adjust the fixed-lens camera's field of view in a similar way to adjusting the field of view on a varifocal lens camera at installation. The fixed-lens camera maintains the selected resolution, while also allowing digital zoom, pan and tilt operation to fine tune the angle of view. After installation, precise adjustments can be made to the fixed-lens camera's field of view. This can be done on a remote basis, reducing the cost of maintenance.

Essential Video Analytics (EVA)

Essential Video Analytics (EVA) from Bosch allows the operator to decide on which video stream is captured based on video content analysis (VCA). Bandwidth and storage can be reduced by recording alarm situations only or by selecting the best video encoding quality and frame rates exclusively for alarms. The software produces metadata to add sense and structure to video footage already at the point of capture, thus reducing streaming requirements to relevant content, as well as speeding up evidence retrieval. Advanced tasks like multiple line crossing, loitering, crowd density estimation, and people counting are available. EVA is integrated in selected Sony network security cameras, including EMX- and HMX-Series.

Evidence Shot

Evidence Shot records high quality JPEG images with the camera's maximum resolution at a low frame rate, simultaneously providing an overview video stream at smaller size images in H.264. This function is useful for applications where forensic analysis is required to identify people's faces and car license plates in city streets and car parks. The high resolution (20 megapixels with SNC-VM772R) allows for enlargement of specific areas of interest in the scene to examine details more precisely.

Flicker Reduction

Flicker Reduction minimizes flicker phenomena that are seen as blinks or horizontal stripes caused by differences in brightness on the monitor when shooting video under fluorescent, sodium, or mercury lamps. This function analyzes brightness of the captured images and compensates for the differences in brightness with image processing to maintain picture quality with fewer flickers.

Gyroscopic Image Stabilizer

The Gyroscopic Image Stabilizer helps to minimize effect of camera shake or vibration, reducing image blur. Thanks to an advanced gyroscopic sensor technology, this stabilizer is capable of detecting camera vibration precisely and compensating for blurred images effectively.of withstanding the impact of 5 joules; this is equivalent to withstanding the impact of a 1.7 kg weight dropped from a height of 29.5 cm.

Highlight Compensation (HLC)

The HLC function detects any strong light spots such as car headlights and flashlights in the dark and masks them in the captured images. This can relieve operator eye strain, making the monitoring task easier.

HPoE+ (HPoE Plus)

HPoE+ enables devices to receive power (up to 60 W) from HPoE+-enabled equipment such as a PowerDsine® 9501G/B power injector from Microsemi Corporation through the same Ethernet cable that transports data by using 4 wires. HPoE+ is useful especially for PTZ/Rapid Dome cameras that require motor control, and outdoor dome cameras that operate a heater in low-temperature conditions.

PoE+ (PoE Plus, IEEE 802.3at)

PoE+ enables networked devices to receive power (up to 25.5 W) from PoE+-enabled equipment through the same Ethernet cable that transports data. PoE+ is useful especially for PTZ/Rapid Dome cameras that require motor control, and outdoor dome cameras that operate a heater in low-temperature conditions.

IK8 Rated

The IK rating system (defined in the IEC 62262 standard) classifies the level of protection provided by electrical appliances against external impacts (i.e., physical impact on the outside of the camera). An IK8-rated camera is capable of withstanding the impact of 5 joules; this is equivalent to withstanding the impact of a 1.7 kg weight dropped from a height of 29.5 cm.

IK10 Rated

The IK rating system (defined in the IEC 62262 standard) classifies the level of protection provided by electrical appliances against external impacts (i.e., physical impact on the outside of the camera). An IK10-rated camera is capable of withstanding the impact of 20 joules; this is equivalent to withstanding the impact of a 5 kg weight dropped from a height of 40 cm.

Image Stabilizer

The Image Stabilizer helps to minimize the effect of camera shake or vibration to reduce image blur. This function adopts a motion vector to compensate for blurry images, which is calculated based on image data obtained from the camera's image sensor.

Intelligent Coding

Intelligent Coding is a function to efficiently manage your network bandwidth and storage costs. It keeps specific area of interest[*1] in the scene clear and crisp with original high image quality, while encoding the other parts of the image with a higher compression ratio, reducing the data size by up to 50%[*2]. Auto mode can be selected to scale areas of interest according to the size of an object.

[*1] The specific areas of interest can be selected from Static (fixed area), or Dynamic (movable area in combined use with a Multi Tracking function).

[*2] The conditions: 4K/30 fps video footage with 30% of areas of interest.

Intelligent Cropping

Intelligent Cropping is a function to efficiently manage your network bandwidth and storage costs. It observes specific areas of interest* in any captured image with a 4K resolution, while overviewing the entire image with a lower Full HD resolution, reducing the data size by up to 50%. This function provides a Full HD resolution overview, in parallel with four separate close-ups at a VGA-cropped view or two separate close-ups at Full HD with an original 4K resolution.

* The specific areas of interest can be selected from Static (fixed area), or Dynamic (movable area in combined use with a Multi Tracking function).

Intelligent Scene Capture

Intelligent Scene Capture is a function to provide the best picture quality for the scene, 24/7. It analyzes captured images and automatically adjusts parameters such as shutter speed and gain, responding to environmental factors such as weather, time, and lighting conditions. In addition to Standard mode, you can select Motion Priority mode (ideal for capturing moving objects) and Low Noise Priority mode (ideal for noise reduction). You can use a scheduling function to switch Intelligent Scene Capture modes and manual setting modes.

IP-66 Rated

The "IP" of IP66 stands for ingress protection (defined in the IEC 605292 standard), and its two-digit number shows the durability rating of equipment for outdoor use. The first digit of IP66 relates to ingress protection against dust, and "6" means "dust tight". The second digit of IP66 relates to ingress protection against water, and "6" means protected against "heavy jet sprays", such as conditions encountered during hurricanes.

IR Illuminator

The IR illuminators built into Sony's cameras consist of multiple high-performance IR LEDs located around the camera lens. This enables each camera to project a powerful and uniform IR light over a great distance. Combined with the True D/N function, IR illuminators enable each camera to produce clear B/W images even in complete darkness (0 lx), up to 164 feet (50m) (50 IRE) away.

Multi Tracking*

Multi Tracking is a useful function to chase and observe multiple moving objects in the image captured with a single 4K camera. It can chase moving objects such as people or cars in the captured image from the position designated with Intelligent Cropping or Intelligent Coding. The operation starts with a trigger from the camera's VMD (video motion detection) function. This allows a single 4K camera to track and follow up to four moving objects – useful for a scene in which multiple PTZ cameras are used. Thanks to Sony's proprietary technology, this function realizes a precise tracking capability; for example, it can keep tracking two moving objects even if they cross each other.
*Multi Tracking is used in combination with Intelligent Coding or Intelligent Tracking

ONVIF Profile

ONVIF profiles make it easy to recognize how ONVIF conformant devices and clients are compatible with one another. Each ONVIF profile has a fixed set of features that must be supported by a conformant device and client. It ensures that a client that conforms to Profile S, for example, will work with a device that also conforms to Profile S. More information at www.onvif.org/profiles

Optical Image Stabilizer

Optical Image Stabilizer incorporates a lens element with gyroscopic sensors in the camera's lens unit and optically compensates for movement in captured images. After detection of camera shake and vibration with the gyroscopic sensors, this function makes the lens element shift to the direction to cancel the camera's movement so that the optical axis can be kept in a proper position. This helps to minimize the effect of camera shake or vibration, achieving less blurry images. Unlike some Electronic Image Stabilizers this function maintains original picture quality without reducing image resolution.

Picture Mode

Picture mode feature allows users to easily adjust camera settings based on scene requirements.

PoE (Power-over-Ethernet, IEEE 802.3af)

Enables networked devices to receive power (up to 12.95 W) from PoE-enabled equipment through the same Ethernet cable that transports data. It provides substantial installation cost savings, and can simplify the installation process.

Smartphone Viewer

The Smartphone Viewer enables an image of the camera to be displayed on a smartphone screen. In addition, the camera's pan, tilt, and zoom functions can be controlled by simple touch-panel manipulation.

SNC Toolbox Mobile

SNC toolbox mobile is a convenient smartphone/tablet app (supported by Android and iOS) that is intended for use in installation of a camera. It allows you to view[*1] live camera images and adjust the filed of view with your camera's zoom and focus control buttons. In addition to live image viewing, this app allows you to control[*2] zoom and focus as well as other view-related features of the SNC-VM772R 4K camera on your smartphone touchscreen.

[*1] A Wi-Fi router must be installed in the network

[*2] The optional IFU-WLM3 USB wireless LAN module must be attached to the camera.

Solid PTZ

Solid PTZ can navigate the camera's visible area in the captured images by its digital pan, tilt, and zoom functionalities. This can be used to monitor particular points of interest during the operation.

True D/N (Day/Night)

A True D/N camera has two modes of operation: a day mode and a night mode. The camera switches from day mode (color) to night mode (B/W), depending on the light level, by replacing its infrared-cut filter with a clear filter. In night mode, the camera becomes sensitive to near-IR light and is capable of reproducing images even when the scene is not visible to the naked eye.

View-DR® Technology

View-DR is Sony's innovative technology to produce images with an extremely wide dynamic range. View-DR is a combination of Sony's full-capture Wide-D technology, the high-speed Exmor® CMOS sensor, and Visibility Enhancer (VE) technology.
The full-capture Wide-D technology in View-DR uses an electronic shutter to capture multiple images and reproduce each frame. One image is taken using a standard exposure time and either one or three images are taken using very short exposure times, depending on the camera type. With the newly developed View-DR algorithm, all of the electrons converted from the captured light are fully used by the imager, which is quite different to some other Wide-D technologies in the industry that discard approximately half of these electrons. As a result, View-DR nearly doubles sensitivity compared to conventional Wide-D technologies. To capture multiple HD resolution images at a very high speed, the Exmor® CMOS sensor is used because of its high-speed readout characteristics. During the process of combining multiple images, the Visibility Enhancer (VE) is employed to provide a high level of chrominance and luminance. With View-DR technology, the monitored image become very visible – sometimes it is even more visible than when viewed with the naked eye.

Visibility Enhancer (VE)

VE is one of Sony's advanced technologies that optimizes contrast and makes a scene more visible. It is ideal for scenes in which objects are difficult to recognize due to severe backlight or shadows. VE helps to optimize the brightness and color reproduction of an image dynamically on a pixel-by-pixel basis, while continuously adapting to the scene. Technically, VE stretches the contrast in both the backlit portions and the shadows within a given dynamic range, which is different to Wide-D. VE also contributes to the camera's high sensitivity. By combining VE with XDNR, the camera can reproduce clear and bright images in very low-light conditions, while keeping noise at a minimal level.

White-light LED Illuminator

The white-light LED illuminators built in Sony's cameras emit visible light; they illuminate a scene in an extremely wide range, enabling each camera to capture clear color images in low-light conditions.

Wide-D Technology

Sony's Wide-D technology is a powerful feature that helps expand a camera's video dynamic range. It helps to improve the visibility of images in extremely high-contrast environment.

XDNR® Technology (eXcellent Dynamic Noise Reduction)

XDNR is Sony's noise reduction technology for network security cameras. XDNR utilizes 2D and 3D noise reduction methods adaptively to scenes. 2D noise reduction (2DNR) reduces noise on the image by maintaining a smooth edge on moving objects, while 3D noise reduction (3DNR) drastically reduces noise on the image of still objects. Under low-light conditions, XDNR provides clear images for both moving objects and still portions of the image, using 2DNR and 3DNR respectively. This method provides clear images while minimizing motion blur, which is a typical challenge in outdoor surveillance monitoring applications such as in parking lots.

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