

SNC-VM642/ SNC-EM642R

Network Minidome FHD Camera – V & E Series

SONY

Outdoor Ruggedized Minidome Full HD IP Network Camera with IR

- **HIGH SENSITIVITY** - Equipped with the Exmor R CMOS sensor, achieves low-noise, superior full quality color images
- **Wide dynamic range** - 90 dB with View DR technology
- **Minimum illumination** of 0.006 lux, 30 IRE (0.01 lux, 50 IRE) color; 0 lux B/W (IR)
- **Good IR mode range** - up to 328 feet; 30 IRE
- **3-9mm varifocal auto iris** with remote zoom and focus
- **High frame rate** - 60 fps, dual FHD streams at 30 fps
- **Electronic image stabilization**
- **Intelligent motion detection** and DEPA Advanced analytics including face detection
- **Bi-directional audio**, Voice Alert capability
- **SD card slot** with edge notification capability*
- **IK10 rated vandal-resistant** and IP66 rated weather-resistant
- **Simultaneous analog video output and network video streaming**
- **PoE, AC 24V/ DC 12V** for V series only (PoE only for E series)
- **Alarm I/O** on V series only

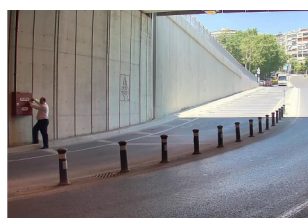


KEY FEATURES

- Exmor R CMOS sensor achieves 10x better sensitivity compared to the 630 series.
- Advanced IR technology captures both near and far objects with no overexposure. Both SNC-EM642R and SNC-VM642R can clearly capture objects with IR up to approximately 328 feet.
- View-DR expands dynamic range for significantly improved imaging in high-contrast and strongly backlit scenes, like sun-drenched offices or car park entrances.
- Image stabilisation keeps video images crisp and clear, even when the camera is subject to vibration on a mounting pole or bracket.
- Unique View DR allows both shutters to drop to same lower shutter speed for better sensitivity



OFF



ON

Actual Images

- **Visibility Enhancer (VE)** to optimize the brightness and color reproduction of an image dynamically on a pixel-by-pixel basis while continuously adapting to the scene within the given dynamic range.
- **DEPA Advanced Intelligent Video Analytics** to trigger an alarm based on user-defined rules like passing, intrusion, object removed/left behind, face detection

- **Picture Modes** for ease of installation. Depending on the scene and priority of the image capture, such as wide dynamic range during the day, and higher sensitivity at night, or reduce motion blur and sensitivity.
- **Electronic image stabilization** to minimize image shake (note that the viewing angle will be reduced)
- **Intelligent video motion detection** samples multiple images to minimize false positives such as leaves moving etc.
- **DEPA Advanced analytics** to fine tune detection based on criteria such as passing, intrusion, disappearance, object removed and object appear.
- **Face detection**
- **Tamper detection**
- **SD card edge storage** allows video/audio data to be recorded directly by the camera.
- **Remote zoom and focus setup** to ease installation.
- **Image Stabilizer** to minimize the effect of camera shake or vibration to achieve clearer images.
- **ONVIF (Open Network Video Interface Forum) Profile S** conformance.

* function supported by specific Sony SD cards SR-32UX ; SR-64UX



Sony Video Security driven by Bosch

SPECIFICATIONS

SNC-EVM642R/ SNC-VM642R	
Camera	
Image Sensor	1/2.8-type progressive scan Exmor R CMOS sensor
Number of Effective Pixels	Approx. 2.13 Megapixels
Signal System	NTSC/PAL (switchable)
Sync System	Internal synchronization
Minimum Illumination (50 IRE)	Color: 0.01 lx (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps) B/W: 0 lx (IR LED On)
Minimum Illumination (30 IRE)	Color: 0.006 lx (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps) B/W: 0 lx (IR LED On)
Wide Dynamic Range	Equivalent to 90 dB with View-DR technology
S/N Ratio	More than 50 dB
Gain	Auto
Shutter Speed	1/1 s to 1/10,000 s
Exposure Control	Exposure compensation, Shutter speed, Iris
White Balance	ATW, ATW-PRO, Fluorescent lamp, Mercury lamp, Sodium vapour lamp, Metal halide lamp, White LED, One push WB, Manual, Indoor, Outdoor
Lens	Variofocal lens
Easy Zoom	Yes
Zoom ratio	Optical zoom 3x Digital zoom 4x Total zoom 12x
Easy Focus for Setup	Yes
Horizontal Viewing Angle	105.3° to 35.6°
Vertical Viewing Angle	56.9° to 20.1°
Focal Length	f = 3.0 mm to 9.0 mm
F-Number	F1.2 (Wide) to F2.1 (Tele)
Minimum Object Distance	300 mm
Pan/Tilt/Rotation Angle (Manual)	±192° -7° to +75° -99° to +180°
IR Illuminator	Yes Wave length (typical): 850 nm , IR LED: 20 pieces)
White-light LED Illuminator	No
Camera Features	
Day/Night	True D/N
e-Flip	Yes
Wide-D	View-DR
Tone Correction	Visibility Enhancer
Noise Reduction	XDNR
Image Stabilizer	Electronic
Picture Mode	Yes
Privacy Masking (number)	20
Privacy Masking (shape)	Quadrangle formed by any four corner points
Privacy Masking (color/effect)	Opaque 14 colors (Black, White, Red, Green, Blue, Cyan, Yellow, Magenta, Gray (6 scales)), Mosaic
Edge Storage	Yes
Vandal Resistant	IK10
Ingress Protection	IP66
Superimpose Number	3 independent positions for characters (Codec, Date & Time, Event, Text (Max. 64 characters)), 1 independent position for a logo mark
Superimpose Language	English
Menu Language	English, Japanese, Chinese (simplified), Chinese (traditional), French, Spanish, German, Italian, Korean, Portuguese, Russian, Arabic, Hindi, Vietnamese, Thai
Video	
Resolution	1920 x 1080, 1280 x 720, 1024 x 576, 720 x 576, 720 x 480, 704 x 576, 640 x 480, 640 x 360, 352 x 288, 320 x 184 (H.264, JPEG)
Compression Format	H.264 (High/Main/Baseline Profile), JPEG
Maximum Frame Rate	H.264: 60 fps (1920 x 1080) JPEG: 60 fps (1280 x 720)
Bitrate Compression Mode	CBR/VBR (selectable)
Range of Bitrate Setting	64 Kbps to 32 Mbps
Solid PTZ	Yes
Adaptive Rate Control	H.264
Bandwidth Control	JPEG
Multi Streaming Capability	Yes (3)
Number of Clients	20
Intelligent Video Analytics	
Analytics Architecture	DEPA Advanced
Intelligent Motion Detection	Yes
Face Detection	Yes
Tamper Alarm	Yes
Scene Analytics	Passing, Intrusion, Left Object Detection, Removed Object Detection
Audio	
Compression Format	G.711/G.726/AAC (16 kHz, 48 kHz)

SNC-EVM642R/ SNC-VM642R	
System Requirements	
Operating System	Windows 7 (32/64 bit) Ultimate, Professional Edition Windows 8.1 Pro (32/64 bit) Windows 10 Pro (32/64 bit)
Processor	Intel Core i7 2.8 GHz or higher
Memory	2 GB or more
Web Browser	Microsoft Internet Explorer Ver. 11.0 Firefox Ver. 50.1 (plug-in free viewer only) Google Chrome Ver. 55.0 (plug-in free viewer only)
Network	
Protocols	IPv4, TCP, UDP, ARP, ICMP, IGMP*, HTTP, DHCP, DNS, NTP, RTP/RTCP, RTSP over TCP, SMTP over HTTP, IPv6, HTTPS, FTP (client), SNMP (v1, v2c, v3), SSL*1
QoS	DSCP
Multicast Streaming Support	Yes
ONVIF Conformance	Profile S
Authentication	IEEE802.1X
Interface	
Analog Video Output	BNC x1, 1.0 Vp-p, 75 Ω, unbalance, sync negative 700 TV lines (analog video)*2
Analog Monitor Output for Setup	Phono jack x1
Line Input	Mini jack (monaural)
Line Output	Mini jack (monaural) Maximum output level: 1 Vrms
Network Port	10BASE-T/100BASE-TX (RJ-45)
Card Slots	SD x1
Confirmed SD Card Type	Max. 256GB *3
General	
Power Requirements	IEEE802.3at compliant (PoE/PoE+ system)
Power Consumption	Max. 18 W (IEEE802.3at (PoE+)) Max. 12.8 W (IEEE802.3af (PoE))
Operating Temperature*4	-40°C to +50°C (PoE+) (-40°F to +122°F (PoE+)) -30°C to +50°C (PoE) (-22°F to +122°F (PoE)) -40 C to +50 C (AC 24V) (-22 F to 122 F (AC24V)) -10 C to +60 C (IR OFF), PoE+ or (AC 24V) SNC-VM642R only
Cold Start Temperature	-30°C to +50°C (PoE+) (-22°F to +122°F (PoE+)) -20°C to +50°C (PoE) (-4°F to +122°F (PoE))
Storage Temperature	-20°C to +60°C (-4°F to +140°F)
Operating Humidity	20 % to 90 % (no condensation)
Storage Humidity	20 % to 80 % (no condensation)
Dimensions (W x H x D)*5	φ166 x 128 mm φ6 5/8 inches x 5 1/8 inches
Mass	Approx. 1830 g (4 lb 0.6 oz) V series Approx. 1740 g (3 lb 13 oz) E series
Supplied Accessories	Bracket (1) Template (1) Wire rope (1) Wrench (1) Camera unit mounting screws (4) Screw (M4 x 8) (2) Safety Regulations (1) Cable holder (for conduit) (1) LAN cable holder (1) Operating Instructions - Download site Information (1)
Optional Accessories	YT-ICB45 (In-ceiling Bracket) UNI-MDB3 (pendant cap with wall mount bracket); UNI-MDPDH180 (Pendant cap only 1" threaded top)

*1: SSM (Source Specific Multimedia) is supported.

*2: Monitor display ratio 4:3

*3: The maximum number of event recording in the SD card is 4000. It may not use the full capacity of the SD card, depending on the limitation set for the event recording.

*4: 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

*5: The values for dimensions are approximate.

DIMENSIONS

