

SNC-EM641/ SNC-VM641

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 0.005 lx in B/W and 0.006 lx in Color mode at 30 IRE (0.01lx in Color, 0.007 lx in B/W at 50 IRE)
- **3-9mm varifocal auto iris lens** with remote zoom and focus
- **High frame rate** – 60 fps, dual FHD streams at 30fps
- **Electronic image stabilization**
- **Intelligent motion detection** and DEPA Analytics
- **Bi-directional Audio**, Voice Alert capabilities
- **SD card slot** with edge notification capability*
- **IK10-rated vandal-resistant**
- **Simultaneous analog video output** and network video streaming
- **True day/night function**
- **PoE, AC 24V/ DC 12V** for V series only (PoE only for E series)
- **Alarm I/O** on V series only



KEY FEATURES

- Sony's new 640 series offers 10x better sensitivity compared to current 630 series. With increased sensitivity, higher shutter speeds can be used to capture moving objects or people on the scene edge definition. Even where normal shutter speeds are used, increased sensitivity means less AGC levels are required which translates to better overall picture quality.
- View-DR – Sony's innovative wide dynamic range technology to capture objects clearly and adaptively even under very harsh, severe backlight or highlight conditions. Utilizing Visibility Enhancer (VE) in conjunction with multi shutter for wide dynamic range, enhances darker areas of the scene to be more visible.

- XDNR (eXcellent Dynamic Noise Reduction) technology for clear images without motion blur under low illumination.
- VBR (variable bitrate) or CBR (constant bitrate) compression mode selectable to correspond with various network conditions.
- Voice Alert function to play back a user created audio file, which can be triggered by an alarm.
- SD card edge storage allows video/audio data to be recorded directly by the camera.
- Edge Notification - sends alerts when SD card starts to fail
- Image Stabilizer to minimize the effect of camera shake or vibration to achieve clearer images.
- Remote zoom and focus setup to ease installation.
- Powered by IEEE 802.3af (PoE) for easy installation.

* function supported by specific Sony SD cards SR-32VMA, SR-64VMA, SR-G1VMA



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



Sony Video Security driven by Bosch

SPECIFICATIONS

	SNC-EVM641/ SNC-VM641
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: 0.007 lx (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)
Minimum Illumination (30 IRE)	Color: 0.006 lx (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps) B/W: 0.005 lx (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)
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
Lens	Built-in varifocal 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)	Pan: ±192° Tilt: -7° to +75° Rotation: -99° to +180°
Camera Features	
Day/Night	True D/N
e-Flip	Yes
Image Rotation & Mirror	90/180/270
Wide-D	View-DR
Tone Correction	Visibility Enhancer
Noise Reduction	XDNR
Image Stabilizer	Electronic
Picture Mode	Yes, 6 plus custom
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
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-EVM641/ SNC-VM641
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
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)
Analog Monitor Output for Setup	Phono jack x1
Alarm I/O	Yes, 2/2 for V series
Line Input	Mini jack (monaural) for V series only
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 **
General	
Power Requirements	IEEE 802.3af compliant (PoE system) (DC 12 V ± 10%, AC 24 V ± 20% - V series only)
Power Consumption	6.0 W max.
Operating Temperature	-10°C to +50°C (14°F to 122°F)
Cold Start Temperature	0°C to +50°C (32°F to 122°F)
Storage Temperature	-20°C to +60°C (-4°F to +140°F)
Operating Humidity	20 % to 80%
Storage Humidity	20 % to 80 % (no condensation)
Dimensions (W x H x D)**	ø148 mm x 108 mm (ø5 7/8 inches x 4 3/8 inches)
Mass	Approx. 835 g (Approximate 1 lb 13 oz)
External Material	Top cover: PC Dome cover: PC
External Color	Top cover: Munsell 4.4BG 8.4/0.2
Safety Regulations	JATE Technical standard (LAN) V series only UL2044, IEC60950-1 (CB) VCCI (Class A), FCC (Class A), IC (Class A) Emission: EN55032 (Class A) Immunity: EN55024 + EN50130-4 Emission: AS/NZS CISPR32 (Class A) KC EMC-TR
Supplied Accessories	Template (1) Audio cable (1) I/O cable (1) - V series only BNC cable (1) Power input cable (1) - V series only Screw M3 (1) Wrench (1) Bracket (1) Wire rope (1) Safety regulations (1) Operating Instructions - Download site Information (1)
Optional Accessories	YT-ICB600 (In-ceiling Bracket) YT-LD601S (Smoke Dome Cover)

*1: SSM (Source Specific Multicast) 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.

DIMENSIONS

