

SONY

SNC-EM632RC

Network Mini Dome Full HD Camera – E Series

Outdoor IR Ruggedized 1080p/30 fps Camera Powered by IPELA ENGINE™ EX Technology

- Maximum resolution of 1920 x 1080 pixels with the Exmor® CMOS sensor
- Dynamic range equivalent to 90 dB achieved with View-DR® technology
- Minimum illumination of 0.1 lx in Color mode at 50 IRE
- Built-in IR (infrared) illuminators to help provide clear B/W images in the dark even under 0 lx
- Advanced IR technology for high-quality IR images
- Image Stabilizer to help minimize the effect of camera shake or vibration
- IK10-rated vandal-resistant and IP66-rated water-resistant/dust-tight features
- Operating temperature ranging from -40°F to +122°F (-40°C to +50°C)



IPELA

KEY FEATURES

- IPELA ENGINE EX signal processing system developed based on Sony's unique signal processing and video analytics technologies to provide unique features such as View-DR, XDNR®, and DEPA™ Advanced technologies
- View-DR – Sony's innovative wide dynamic range technology – to capture objects clearly and adaptively even under very harsh, severe backlight or highlight conditions



OFF



ON

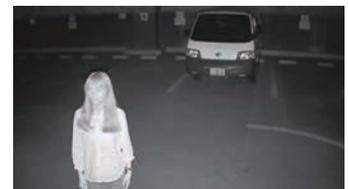
Actual images

- Visibility Enhancer (VE) technology optimizes contrast and makes a scene more visible. It's ideal for scenes where objects are hard to recognize due to severe backlight or shadows. VE optimizes the brightness and color reproduction of an image dynamically on a pixel-by-pixel basis while continuously adapting to the scene
- XDNR (eXcellent Dynamic Noise Reduction) technology for clear images with virtually no motion blur under low-light conditions
- DEPA Advanced Intelligent Video Analytics to trigger an alarm based on user-defined rules such as passing (virtual border)
- Easy Zoom/Easy Focus for easy installation
- Easy initial network settings by supplied SNC Easy IP Setup Guide application
- Powered by IEEE 802.3af/IEEE 802.3at-compliant PoE/PoE+ system for easy installation
- Built-in IR (infrared) illuminators to assist capturing objects in the dark even under 0 lx, up to 98 feet (30 m) (50 IRE) away

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



Conventional IR technology
(cannot identify close objects due to overexposure)



Advanced IR technology
(can identify close and distant objects)

Actual images

- Image Stabilizer to help minimize the effect of camera shake or vibration for less blurry images
- IK10-rated vandal-resistant feature to help protect the camera from destructive behaviors
- IP66-rated water-resistant and dust-tight feature for outdoor surveillance or indoor where water ingress may pose an issue
- True D/N (Day/Night) function to switch to Day or Night mode depending on the light level
- Picture mode feature allows users to easily adjust camera settings based on scene requirement
- VBR (variable bitrate) capable of maximum bitrate setting or CBR (constant bitrate) compression mode selectable to correspond with various network conditions
- Smartphone viewer to display an image of the camera on the smartphone's screen and control the camera's pan, tilt, and zoom functions by simple touch-panel manipulation
- ONVIF™ (Open Network Video Interface Forum) Profile S-conformance firmware that ensures greater interoperability and more flexibility in building multi-vendor systems

IPELA
ENGINE EX

View-DR

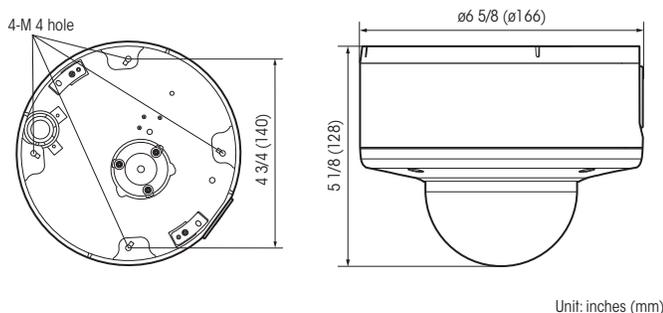
DEPA
Advanced

ONVIFS

SPECIFICATIONS

SNC-EM632RC	
Camera	
Image Sensor	1/2.9-type progressive scan Exmor CMOS sensor
Number of Effective Pixels	Approx. 2.14 Megapixels
Signal System	NTSC/PAL (switchable)
Sync System	Internal synchronization
Minimum Illumination (50 IRE)	Color: 0.1 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps) B/W: 0 lx (IR LED ON)
Minimum Illumination (30 IRE)	Color: 0.06 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps) B/W: 0 lx (IR LED ON)
Dynamic Range	Equivalent to 90 dB with View-DR technology
S/N Ratio (Gain 0 dB)	More than 50 dB
Gain	Auto
Shutter Speed	1 s to 1/10,000 s
Exposure Control	Exposure compensation, AGC, Shutter speed
White Balance	ATW, ATW-PRO, Fluorescent lamp, Mercury lamp, Sodium vapour lamp, Metal halide lamp, White LED, One push WB, Manual, Indoor, Outdoor
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°
Viewing Tilt Angle	127.6°
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°
IR Illuminator	Yes (Wave length: 850 nm [typical], IR LED 20 pieces)
IR Working Distance	98 feet (30 m) (50 IRE)
Camera Features	
Day/Night	True D/N
Day/Night linked with Easy Focus	Yes
e-Flip	Yes
Wide-D	View-DR
Tone Correction	Visibility Enhancer (VE)
Noise Reduction	XDNR
Image Stabilizer	Yes
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
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 logo marks
Superimpose Language	English
Menu Language	English, Japanese, Chinese (simplified), Chinese (traditional), French, Spanish, German, Italian, Korean, Portuguese, Russian, Arabic, Hindi, Vietnamese, Thai, Turkish, Polish
Smartphone viewer	Yes
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: 30 fps (1920 x 1080) JPEG: 30 fps (1920 x 1080)
Bitrate Compression Mode	CBR/VBR/VBR with Cap (selectable)
Range of Bit Rate Setting	64 Kbps to 32 Mbps
Solid PTZ	Yes
e-Varifocal	Yes
Adaptive Rate Control	H.264
Bandwidth Control	JPEG
Multi streaming Capability	Triple streaming
Number of Clients	20

DIMENSIONS



Intelligent Video/Audio 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
System Requirements	
Operating System	Windows XP® (32 bit) Professional Edition Windows Vista® (32 bit) Ultimate, Business Edition Windows 7 (32/64 bit) Ultimate, Professional Edition Windows 8 Pro® (32/64 bit), Windows 8.1 Pro (32/64 bit)
Processor	Intel Core i7 2.8 GHz or higher
Memory	2 GB or more
Web Browser	Microsoft Internet Explorer® Ver. 7.0, Ver. 8.0, Ver. 9.0, Ver. 10.0, Ver. 11.0 Firefox® Ver. 19.02 (plug-in free viewer only) Safari® Ver. 5.1 (plug-in free viewer only) Google Chrome® Ver. 25.0 (plug-in free viewer only)
Network	
Protocols	IPv4, TCP, UDP, ARP, ICMP, IGMP*, HTTP, DHCP, DNS, NTP, RTP/RTCP, RTSP over TCP, RTSP over HTTP, SMTP, IPv6, HTTPS, SNMP (v1, v2c, v3), FTP (client only), SSL
QoS	DSCP
Multicast Streaming Support	Yes
ONVIF Conformance	Profile S
Authentication	IEEE 802.1X
Interface	
Analog Monitor Output for Setup	Phono jack x1
Network Port	10BASE-T/100BASE-TX (RJ-45)
General	
Power Requirements	IEEE802.3at compliant (PoE/PoE+ system)
Power Consumption	Max. 17 W (IEEE802.3at-compliant (PoE+ system)) Max. 12.95 W (IEEE802.3at/at-compliant (PoE/PoE+ system))
Operating Temperature*2	-40°F to +122°F (-40°C to +50°C) (PoE+) -22°F to +122°F (-30°C to +50°C) (PoE)
Cold Start Temperature	-22°F (-30°C) (PoE+) -4°F (-20°C) (PoE)
Storage Temperature	-4°F to +140°F (-20°C to +60°C)
Operating Humidity	20% to 90% (no condensation)
Storage Humidity	20% to 95% (no condensation)
Built-in Heater	Yes
Dimensions (W x H x D)	ø 6 5/8 inches x 5 1/8 inches (ø 166 x 128 mm)
Weight	3 lb 7.7 oz (1580 g)
External Material	Upper case: ADC12 Lower case: ADC12 Dome cover: PC Cap: PC
External Color	White
UL Listing	UL2044
Supplied Accessories	CD-ROM (supplied programs) (1) Bracket (1) Template (1) Wire rope (1) Wrench (1) Camera unit mounting screws (4) Screw (M4 x 8) (2) Installation Manual (1 set) Safety Regulations (1 set) Cable holder (for conduit) (1)
Optional Accessories	YT-ICB45 (In-ceiling Bracket) SNCA-WP602 (Weather Protector) UNI-MDB3 (Pendant Cap with Wall Mount Bracket)

*1 *SSM (Source Specific Multicast) is supported.

*2 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.

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