SONY

SNC-EM632RC

Network Mini Dome Full HD Camera - E Series

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

- 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 provide clear B/W images in the dark even under 0 lx
- Advanced IR technology for high-quality IR images
- Image Stabilizer effective for use in vibration
- IK10-rated vandal-resistant and IP66-rated water-resistant/dust-tight features
- Operating temperature ranging from -40°C to +50°C (-40°F to +122°F)





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





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
- XDNR (eXcellent Dynamic Noise Reduction) technology for clear images without introducing motion blur under low illumination
- DEPA Advanced Intelligent Video Analytics to trigger an alarm based on user-defined rules
- 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 30 m (98 feet) (50 IRE) away

 Advanced IR technology to provide high-quality IR images without overexposure, delivering 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 to achieve less blurry images
- IK10-rated vandal-resistant feature to protect the camera from destructive behaviors
- IP66-rated water-resistant and dust-tight feature for outdoor surveillance and 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 selectable from a range of camera scenes in the setting menu to optimize picture quality in various applications
- 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





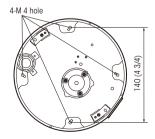


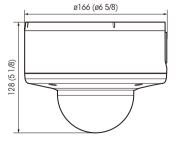


SPECIFICATIONS

Camora	SNC-EM632RC
Camera Image Sensor	1/2 0 type progressive scan Eymer CMOS copeer
Number of Effective Pixels	1/2.9-type progressive scan Exmor CMOS sensor 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)
Willimum illuminumon (50 ike)	B/W: 0 Ix (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	1/1 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 105 20 to 25 (0)
Horizontal Viewing Angle	105.3° to 35.6°
Vertical Viewing Angle Viewing Tilt Angle	56.9° to 20.1° 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	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, Victoryanea, Thai, Turkish, Policie
Menu Language	Spanish, German, Italian, Korean, Portuguese, Russian, Arabic, Hindi, Vietnamese, Thai, Turkish, Polish
Menu Language Smartphone viewer	Spanish, German, Italian, Korean, Portuguese, Russian, Arabic, Hindi,
Menu Language Smartphone viewer Video	Spanish, German, Italian, Korean, Portuguese, Russian, Arabic, Hindi, Vietnamese, Thai, Turkish, Polish Yes
Menu Language Smartphone viewer Video Resolution	Spanish, German, Italian, Korean, Portuguese, Russian, Arabic, Hindi, Vietnamese, Thai, Turkish, Polish Yes 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)
Menu Language Smartphone viewer Video Resolution Compression Format	Spanish, German, Italian, Korean, Portuguese, Russian, Arabic, Hindi, Vietnamese, Thai, Turkish, Polish Yes 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) H.264 (High/Main/Baseline Profile), JPEG
Menu Language Smartphone viewer Video Resolution	Spānish, German, Italian, Korean, Portuguese, Russian, Arabic, Hindi, Vietnamese, Thai, Turkish, Polish Yes 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) H.264 (High/Main/Baseline Profile), JPEG H.264: 30 fps (1920 x 1080)
Menu Language Smartphone viewer Video Resolution Compression Format Maximum Frame Rate	Spanish, German, Italian, Korean, Portuguese, Russian, Arabic, Hindi, Vietnamese, Thai, Turkish, Polish Yes 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) H.264 (High/Main/Baseline Profile), JPEG H.264: 30 fps (1920 x 1080) JPEG: 30 fps (1920 x 1080)
Menu Language Smartphone viewer Video Resolution Compression Format Maximum Frame Rate Bitrate Compression Mode	Spanish, German, Italian, Korean, Portuguese, Russian, Arabic, Hindi, Vietnamese, Thai, Turkish, Polish Yes 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) H.264 (High/Main/Baseline Profile), JPEG H.264: 30 fps (1920 x 1080) JPEG: 30 fps (1920 x 1080) CBR/VBR (selectable)
Menu Language Smartphone viewer Video Resolution Compression Format Maximum Frame Rate Bitrate Compression Mode Range of Bit Rate Setting	Spanish, German, Italian, Korean, Portuguese, Russian, Arabic, Hindi, Vietnamese, Thai, Turkish, Polish Yes 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) H.264 (High/Main/Baseline Profile), JPEG H.264: 30 fps (1920 x 1080) JPEG: 30 fps (1920 x 1080) CBR/VBR (selectable) 64 Kbps to 32 Mbps
Menu Language Smartphone viewer Video Resolution Compression Format Maximum Frame Rate Bitrate Compression Mode Range of Bit Rate Setting Solid PTZ	Spānish, German, Italian, Korean, Portuguese, Russian, Arabić, Hindi, Vietnamese, Thai, Turkish, Polish Yes 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) H.264 (High/Main/Baseline Profile), JPEG H.264: 30 fps (1920 x 1080) JPEG: 30 fps (1920 x 1080) CBR/VBR (selectable) 64 Kbps to 32 Mbps
Menu Language Smartphone viewer Video Resolution Compression Format Maximum Frame Rate Bitrate Compression Mode Range of Bit Rate Setting Solid PTZ e-Varifocal	Spanish, German, Italian, Korean, Portuguese, Russian, Arabic, Hindi, Vietnamese, Thai, Turkish, Polish Yes 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) H.264 (High/Main/Baseline Profile), JPEG H.264: 30 fps (1920 x 1080) JPEG: 30 fps (1920 x 1080) CBR/VBR (selectable) 64 Kbps to 32 Mbps Yes
Menu Language Smartphone viewer Video Resolution Compression Format Maximum Frame Rate Bitrate Compression Mode Range of Bit Rate Setting Solid PTZ e-Varifocal Adaptive Rate Control	Spanish, German, Italian, Korean, Portuguese, Russian, Arabic, Hindi, Vietnamese, Thai, Turkish, Polish Yes 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) H.264 (High/Main/Baseline Profile), JPEG H.264: 30 fps (1920 x 1080) JPEG: 30 fps (1920 x 1080) CBR/VBR (selectable) 64 Kbps to 32 Mbps Yes H.264
Menu Language Smartphone viewer Video Resolution Compression Format Maximum Frame Rate Bitrate Compression Mode Range of Bit Rate Setting Solid PTZ e-Varifocal	Spanish, German, Italian, Korean, Portuguese, Russian, Arabic, Hindi, Vietnamese, Thai, Turkish, Polish Yes 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) H.264 (High/Main/Baseline Profile), JPEG H.264: 30 fps (1920 x 1080) JPEG: 30 fps (1920 x 1080) CBR/VBR (selectable) 64 Kbps to 32 Mbps Yes

DIMENSIONS





Unit: mm (inches)

1.00 000 400 000	
Intelligent Video/Audio Analytics	DEDA Advanced
Analytics Architecture Intelligent Motion Detection	DEPA Advanced 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
Dranger	Windows 8 Pro (32/64 bit), Windows 8.1 Pro (32/64 bit)
Processor Memory	Intel Corei7 2.8 GHz or higher 2 GB or more
Web Browser	Microsoft Internet Explorer Ver. 7.0, Ver. 8.0, Ver. 9.0, Ver. 10.0, Ver. 11.0
Trop Bronce.	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*1, HTTP, DHCP, DNS, NTP, RTP/RTCP,
	RTSP over TCP, RTSP over HTTP, SMTP, IPv6, HTTPS, SNMP (v1, v2c, v3),
QoS	FTP (client only), SSL 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 Power Consumption	IEEE802.3at compliant (PoE/PoE+ system) Max. 17 W (IEEE802.3at-compliant (PoE+ system)
Power Consumption	Max. 12.95 W (IEEE802.3af/at-compliant (PoE+ system)
Operating Temperature*2	-40°C to +50°C (-40°F to +122°F) (PoE+)
- Faramag tampatanana	-30°C to +50°C (-22°F to +122°F) (PoE)
Cold Start Temperature	-30°C (-22°F) (PoE+)
	-20°C (-4°F) (PoE)
Storage Temperature	-20°C to +60°C (-4°F to +140°F)
Operating Humidity Storage Humidity	20% to 90% (no condensation) 20% to 95% (no condensation)
Built-in Heater	Yes
Dimensions (W x H x D)	ø 166 x 128 mm (ø 6 5/8 inches x 5 1/8 inches)
Mass	1580 g (3 lb 7.7 oz)
External Material	Upper case: ADC12
	Lower case: ADC12
	Dome cover: PC
	Cap: PC
External Color	White
Fire Retardant	UL2044
Safety Regulations	JATE Technical Standard (LAN) UL2044, IEC60950-1 (CB)
	VCCI (Class A), FCC (Class A), IC (Class A)
	Emission: EN55022 (Class A) + EN50130-4
	Immunity: EN55022 (Class A) + EN55024
	Emission: AS/NZS CISPR22 (Class A)
	KCC
	EMC-TR
Supplied Accessories	CD-ROM (supplied programs) (1)
	Bracket (1)
	Template (1) Wire rope (1)
	Wrench (1)
	Camera unit mounting screws (4)
	Screw (M4 × 8) (2)
	Installation Manual (1 set)
	Safety Regulations (1 set)
	Cable holder (for conduit) (1)
Optional Accessories	YT-ICB45 (In-ceiling Bracket)
*1 *SSM (Source Specific Multicas	SNCA-WP602 (Weather Protector)
1 SOM (SOURCE Specific Millificas	D IS SUDDODED

*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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