

SONY

SNC-EM602RC

Network Mini Dome HD Camera – E Series

Outdoor IR Ruggedized 720p/30 fps Camera Powered by IPELA ENGINE EX™

- Maximum resolution of 1280 x 1024 pixels with the Exmor™ CMOS sensor
- Dynamic range equivalent to 130 dB achieved with View-DR technology
- Minimum illumination of 0.05 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 (-42°F to +122°F)



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

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



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
- 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 25 m (82 feet, tentative) (50 IRE) away



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

IPELA
ENGINE EX

View-DR

DEPA
Advanced

ONVIFS

SPECIFICATIONS

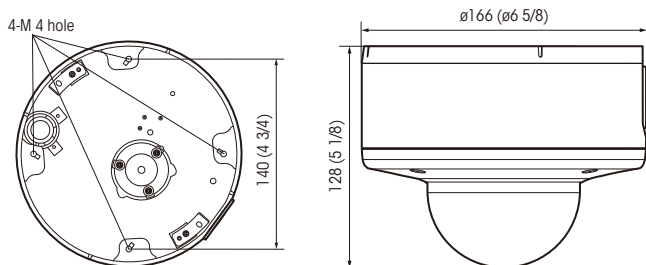
| SNC-EM602RC | |
|----------------------------------|---|
| Camera | |
| Image Sensor | 1/3-type progressive scan Exmor CMOS |
| Number of Effective Pixels | Approx. 1.37 Megapixels |
| Signal System | NTSC/PAL (switchable) |
| Sync System | Internal synchronization |
| Minimum Illumination (50 IRE) | Color: 0.05 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: 0.03 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 130 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 | |
| Easy Zoom | Yes |
| Zoom Ratio | Optical zoom 3x Digital zoom 4x Total zoom 12x |
| Easy Focus for Setup | Yes |
| Horizontal Viewing Angle | 92.9° to 31.8° |
| Vertical Viewing Angle | 73.1° to 25.5° |
| Viewing Tilt Angle | 121.5° |
| 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, Vietnamese, Thai, Turkish, Polish |
| Smartphone viewer | Yes |
| Video | |
| Resolution | 1280 x 1024, 1280 x 960, 1024 x 768, 1280 x 720, 800 x 600, 720 x 576, 720 x 480, 704 x 576, 640 x 480, 352 x 288, 320 x 240 (H.264, JPEG) |
| Compression Format | H.264 (High/Main/Baseline Profile), JPEG |
| Maximum Frame Rate | H.264: 30 fps (1280 x 1024) JPEG: 30 fps (1280 x 1024) |
| Bitrate Compression Mode | CBR/VBR (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 |

| | |
|--|--|
| 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 Corei7 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 *SSM (Source Specific Multicast) is supported. |
| 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°C to +50°C (-40°F to +122°F) (PoE+) -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 | 20% to 90% (no condensation) |
| Storage Humidity | 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 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) |

*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.

DIMENSIONS



Unit: mm (inches)

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Features and specifications are subject to change without notice.

The values for mass and dimension are approximate.

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