

SNC-EB642R

Network Fixed Full HD Camera – E Series

SONY

Outdoor IR Bullet 1080p/60 fps Camera

- **HIGH SENSITIVITY** - Equipped with the Exmor R CMOS sensor, achieves low-noise, superior full quality color images
- **Wide dynamic range of 90 dB**, achieved with View-DR® technology
- **Minimum illumination of 0.006 lux, 30 IRE (0.01 lux, 50 IRE) color; 0 lux B/W (IR)**
- **Excellent IR mode range – up to 328 feet; 30 IRE**
- **E3-9mm 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 capabilities**
- **SD card slot with edge notification capability***
- **IP66 rated for outdoor use**
- **Simultaneous analog and network video streaming**
- **PoE 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 little to no overexposure, with a range of up to 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 stabilization keeps video images crisp and clear, even when the camera is subject to vibration on a mounting pole or bracket.



OFF



ON

Actual Images

- Unique View DR allows both shutters to drop to same lower shutter speed for better sensitivity
- 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 like passing, intrusion, object removed/left behind, face detection



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



Without Advanced IR mode
(cannot identify close objects due
to overexposure)



Advanced IR mode
(View-DR ON)

Actual Images

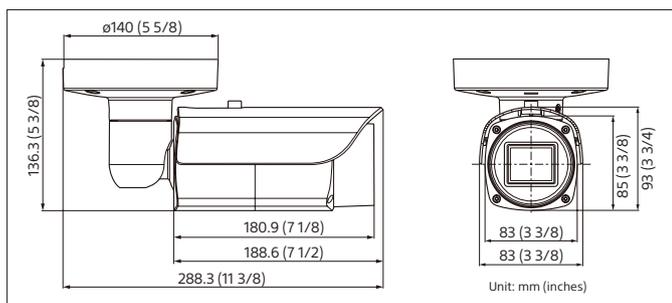
- Unique camera arm design to easily install the camera and easily adjust the viewing angle
- Easy Zoom/Easy Focus for easy installation
- Power over ethernet capability – IEEE 802.3af compliant
- SD card slot with edge notification capability*
- IP66 rated weather-resistant, IK08 impact resistance
- Picture mode feature allows users to easily adjust camera settings based on scene requirements
- 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

* Sony mSD Card models: SR-32VMA, SR-64VMA, SR-G1VMA

SPECIFICATIONS

| | SNC-EB642R |
|--|--|
| 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 illuminator 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 illuminator 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, Iris |
| White Balance | ATW, ATW-PRO, Fluorescent lamp, Mercury lamp, Sodium vapour lamp, Metal halide lamp, White LED, One push WB, Manual |
| 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 |
| IR Illuminator | Yes (Wave length: 850 nm [typical], IR LED: 20 pieces) |
| IR Working Distance | 328 ft. (100m) (30 IRE) |
| Camera Features | |
| Day/Night | True D/N |
| 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 |
| 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 |
| 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: 60 fps (1920 x 1080) JPEG: 60 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 |
| 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 |

DIMENSIONS



| | SNC-EB642R |
|-----------------------------|--|
| 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) |
| SNC toolbox | Yes |
| SNC toolbox mobile | Yes |
| Network | |
| Protocols | IPv4, TCP, UDP, ARP, ICMP, IGMP*, HTTP, DHCP, DNS, NTP, RTP/RTCP, RTSP over TCP, RTSP over HTTP, SMTP, IPv6, HTTPS, FTP (client only), SNMP (v1, v2c, v3), SSL |
| QoS | DSCP |
| Multicast Streaming Support | Yes |
| ONVIF Conformance | Profile S |
| Authentication | IEEE 802.1X |
| Interface | |
| Analog Video Output | BNC x1 |
| Microphone Input | Mini jack (monaural) |
| 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 | IEEE 802.3af compliant (PoE system) |
| Power Consumption | Max. 12.5 W |
| Operating Temperature | -22°F to +122°F (-30°C to +50°C) |
| Cold Start Temperature | -4°F (-20°C) |
| 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) | 3 3/4 inches x 3 3/4 inches x 6 3/8 inches (93 mm x 93 mm x 160.9 mm) ø5 3/8 inches x 12 3/8 inches (ø140 mm x 313.4 mm) (including the arm) |
| Weight | Approx. 3 lb 3 oz (1450 g) |
| External Color | White 4.4BG 8.4/0.2 Black 3.9PB 0.3/1.0 |
| UL Listing | UL2044 |
| Supplied Accessories | CD-ROM (supplied programs) (1) Template (1) Wrench (1) Installation Manual (1 set) Safety Regulations (1 set) Waterproof Tape (1) |

*: SSM (Source Specific Multicast) is supported.

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.

| Optional Accessory | |
|--------------------|--------------------------|
| Model: | |
| UNI-BBB1 | Wall/pole Mount Back Box |



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