SONY

EMX Series
Indoor Minidome 5MP Camera (SNC-EMX50/EMX50R)

ISCS
Access Control Systems & CCTV Solutions

- Superior 5MP image at 30 fps with Easy Focus/ Easy Zoom capability (possible to downscale to 1.3MP).
- Wide Dynamic Range.
- Essential Video Analytics – detect, track and analyse objects, providing alerts in response to predefined alarm rules.
- Latest Data Security Technology including Trusted Platform Module.
- Intelligent bitrate management techniques and Intelligent Dynamic Noise Reduction combined with H.265 video compression.
- True Day/ Night.
- IR version (SNC-EMX50R) with a built in active infrared illuminator with 30m viewing distance.

Key Features

- Ideal for indoor use. The pan/tilt/rotation mechanism alllows installers to select the exact field of view. With Easy Focus/ Easy Zoom the zoom can be changed without opening the camera, using the automatic lens wizard. This makes it easy for an installer to accurately zoom and focus the camera for both day and night operation.

- This 5MP camera has Wide Dynamic Range. The multiple-exposure process dramatically improves the visibility of images in an extreme high-contrast environment.

- Built-in Essential Video Analytics allow the camera to reliably detect, track and analyse objects, providing alerts in response to predefined alarm rules.

- Edge Recording – The MicroSD card slot supports up to 2 TB of storage capacity and can be used for local alarm recording.

- The low-noise image and the efficient H.265 compression technology provide clear images while reducing bandwidth and storage by up to 80% compared to standard H.264 cameras.

- Data Security – The on-board Trusted Platform Module (TPM) and Public Key Infrastructure (PKI) support, guarantee superior protection from malicious attacks. The 802.1x network authentication with EAP/TLS, supports TLS 1.2 with updated cipher suites including AES 256 encryption.

- The integrated gyro/accelerometer sensor automatically corrects the image orientation in steps of 90° if the camera is mounted at right angles or upside down.

- True Day/Night switching – The camera incorporates mechanical filter technology for vivid daytime colour and exceptional night-time imaging while maintaining sharp focus under all lighting conditions.

- The camera conforms to ONVIF Profiles S, T and G, which guarantees interoperability between network video products regardless of manufacturer.

ONVIF® | **SGT**

The Perfection of Secure Identity.

SONY

EMX Series
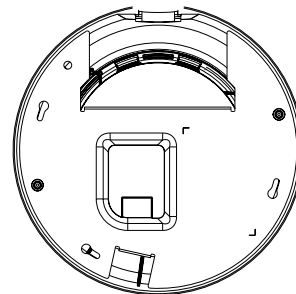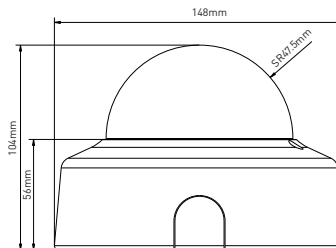Indoor Minidome 5MP Camera (SNC-EMX50/EMX50R)

Access Control Systems & CCTV Solutions

Technical specifications

Power

Power Supply	+12 VDC ±5%, 24 VAC ±10% or PoE (48 VDC nominal)
Power Consumption	7.15 W max. (SNC-EMX50), 10.8 W max. (SNC-EMX50R)
PoE	IEEE 802.3af (802.3 at Type 1) Power level: Class 3

Sensor

Type	1/2.9 -inch Exmor R CMOS
Effective pixels	3072 (H) x 1944 (V)

Video performance – Minimum Illumination

(F1.3, AGC On, 1/25 s, 30 fps, 30 IRE)

Colour	0.24 lx
B/W	0.03 lx
IR LED on	0.0 lx

Video performance – Dynamic range

Wide Dynamic Range	107 dB (measured according IEC 62676 Part 5)

Video streaming

Video compression	H.265; H.264; M-JPEG
Streaming	Multiple configurable streams in H.264 or H.265 and M-JPEG, configurable frame rate and bandwidth
Encoding regions/ Regions of Interest (ROI)	Up to 8 areas with encoder quality settings per area

Video resolution (H x V)

Maximum Video resolution (H x V)	3072 x 1728, 5MP (16:9)

Video functions

Day/Night	Colour, Monochrome, Auto (adjustable switch points)
Adjustable picture settings	Contrast, Saturation, Brightness
White Balance	2500 to 10000K, 4 automatic modes (Basic, Standard, Sodium vapor, Dominant colour), Manual mode and Hold mode
Shutter	Automatic Electronic Shutter (AES); Fixed (1/25[30] to 1/15000) selectable; Default shutter
Backlight compensation	On /off / Intelligent Auto Exposure (BLC)
Noise reduction	Intelligent Dynamic Noise Reduction with separate temporal and spatial adjustments
Sharpness	Sharpness enhancement level selectable
Intelligent defog	Intelligent Defog automatically adjusts parameters for best picture in foggy or misty scenes (switchable)
Privacy Masking	Eight independent areas, fully programmable
Video Analytics	Essential Video Analytics
Other functions	Image mirror, Image flip, Pixel counter, Video watermarking, Display stamping, Location
Camera rotation	Automatic detection with manual override (0° / 90°/ 180°/ 270°)

Optical

Lens type	3 to 10 mm Easy Focus/ Easy Zoom lens, IR corrected DC Iris F1.3 - 360
Lens mount	Board mounted
Adjustment	Motorised zoom/focus
Iris control	Automatic iris control
Day/Night	Switched mechanical IR filter
Horizontal field of view	29° - 92°
Vertical field of view	18° - 50°

Night vision (IR version only)

Distance	30 m (98 ft)
LED	10 LED high efficiency array, 850 nm
IR intensity	Adjustable

Audio

Audio input	Built-in microphone (can be permanently disabled)
Audio line in	0.707 Vrms max, 10 kOhm typical, jack connector
Audio line out	0.707 Vrms max, 16 kOhm typical, jack connector
Audio streaming standard	G.711, 8 kHz sampling rate L16, 16 kHz sampling rate AAC-LC, 48 kbps at 16 kHz sampling rate AAC-LC, 80 kbps at 16 kHz sampling rate
Signal-to-Noise Ratio	→50 dB
Audio Streaming	Full-duplex / half duplex

Local storage

Internal RAM	60 s pre-alarm recording
Memory card slot	Supports up to 32 GB microSDHC / 2 TB microSDXC card. (A memory card of Class 6 or higher is recommended for HD recording)
Recording	Continuous recording, ring recording. alarm / events / schedule recording

Software

Unit discovery	SNC Toolbox
Unit configuration	Via web browser or SNC Toolbox
Firmware update	Remotely programmable
Software viewing	Web browser or third party software
Latest firmware and software	pro.sony/support/software

Network

Protocols	IPv4, IPv6, UDP, TCP, HTTP, HTTPS, RTP/ RTCP, IGMP V2/V3, ICMP, ICMPv6, RTSP, FTP, ARP, DHCP, APIPA (Auto-IP, link local address), NTP (SNTP), SNMP (V1, V3, MIB-II), 802.1x, DNS, DNSv6, SMTP, UPnP (SSDP), DiffServ (QoS), LLDP, SOAP, Dropbox™, CHAP, digest authentication
Encryption	TLS1.0/1.2, AES128, AES256
Ethernet	10/100 Base-T, auto-sensing, half/full duplex
Connectivity	Auto-MDIX
Interoperability	ONVIF Profile S; ONVIF Profile G; ONVIF Profile T; GB/T 28181

Mechanical

3-axis adjustment (pan/tilt/rotation)	350º / 130º / 330º
Dimensions (Ø x H)	148 x 104mm (5.81 x 4.09 in)
Weight	530 g (1.17 lb)

Environmental

Operating temperature (continuous)	-20 ºC to +50 ºC (-4 ºF to +122 ºF)
Storage temperature	-30 ºC to +70 ºC (-22 ºF to +158 ºF)
Humidity	5% to 93% relative humidity (non condensing)

Accessories

Wall bracket	UNI-UMB1
Pendant Cap	UNI-MDPDH120 or UNI-MDPEM600
Gooseneck wall mount	UNI-WMB4
Pole adapter	UNI-PMA1

Dimensions

All specifications are subject to change without notice.

The Perfection of **Secure Identity.**