

## SNC-EMX52R

Outdoor ruggedised minidome video security camera with 5 megapixel resolution, IR illumination and motorised zoom



### Overview

#### **Superior imaging performance, indoors or outside**

The SNC-EMX52R is a rugged, high performance minidome camera, combining Sony's advanced Exmor R CMOS sensor and advanced image processing technologies for high quality 5 megapixel images with wide dynamic range, excellent low-light sensitivity and true day/night capability.

The camera's integral active infrared illuminator delivers clear B/W images even in conditions of complete darkness.

With the additional benefits of smart analytics, convenient installation and powerful security features, the SNC-EMX52R is an ideal choice for demanding security, surveillance and monitoring applications.

Ideal for outdoor use, the camera's IK10-rated design is suitable for tough environments and installations where vandal resistance is important. It is also protected against water and dust to IP66 standards.

### Features

#### **1/2.9-inch 5MP Exmor R CMOS sensor**

The camera's very high resolution 5 megapixel Exmor R CMOS sensor captures exceptionally smooth, detailed video images at 30fps.

#### **Automatic Varifocal Lens**

High quality Automatic Varifocal lens provides 3-10mm focal length range and makes it easy for an installer to quickly and accurately adjust the image for best results.

#### **Better images in high-contrast conditions**

Wide dynamic range technology ensures evenly-exposed video footage, even in harshly-lit high contrast scenes where ordinary cameras struggle to accommodate bright highlights and dark shadow detail.

#### **Powerful video analytics**

Advanced in-built video analytics allow the camera to reliably detect, track and analyse objects, providing alerts and alarm triggers in response to a comprehensive range of pre-defined rules.

#### **IR illuminator**

An integral active infrared source illuminates nearby subjects, delivering clear B/W images even in conditions of complete darkness.

#### **Day & Night function**

The camera's switchable IR cut filter ensures best colour accuracy in daylight, while boosting sensitivity for exceptional night-time while maintaining sharp focus under all lighting conditions.

### **Support Detect, Observe, Recognize and Identify**

Complies with Detect, Observe, Recognize, Identify standard, defining camera's ability to distinguish persons or objects in a specified area.

### **Area-based encoding**

Allows separate compression parameters to be set for up to eight user-definable image areas, reducing bandwidth while ensuring optimum quality for most important parts of the scene.

### **Encoding Regions of Interest (ROI)**

Up to eight regions of interest can be specified in the camera's field of view, with separate encoding quality settings for each area.

### **Intelligent Dynamic Noise Reduction**

Distinguishes between noise and relevant image information, reducing network bandwidth requirements without compromising video quality.

### **Intelligent Auto Exposure**

Automatically adjusts camera exposure and compensates for backlighting, assuring accurately exposed images in a changing lighting conditions.

### **Intelligent streaming**

Advanced encoding technology is combined with the efficient H.265 compression codec and Intelligent Dynamic Noise Reduction, reducing network bandwidth requirements by up to 80% while maintaining excellent image quality compared with conventional streaming using H.264 compression.

### **Edge recording**

Store up to 2TB of local alarm recording on an optional microSD card. Pre-alarm recording in RAM reduces network bandwidth.

### **Cut through fog and haze**

Intelligent Defog automatically optimises picture quality in foggy, hazy or misty conditions.

### **Latest data security technology**

The camera's on-board Trusted Platform Module (TPM) and Public Key Infrastructure (PKI) offer superior protection against malicious attacks. 802.1x network authentication with EAP/TLS supports TLS 1.2 with updated cipher suites including AES 256 encryption.

### **Rugged design for outdoor operation**

Ideal for outdoor use, the camera's IK10-rated design is suitable for tough environments and installations where vandal resistance is important. It is also protected against water and dust to IP66 standards.

### **Automatic calibration**

Integration is simplified by the camera's internal gyro/accelerometer that automatically senses orientation, flipping the image in increments of 90° if the camera is mounted on its side or upside down.

### **Seamless system integration**

Conformance to ONVIF Profile S, Profile T and Profile G specifications ensures interoperability with other network video products and systems. The camera's internal feature set can be accessed directly by third-party integrators.

## Camera

Number of Effective Pixels	3072 x 1728 (5MP)
Minimum Illumination (30 IRE)	Color: 0.24 lx (F1.3) B/W: 0.03 lx (F1.3) IR mode: 0.0 lx (F1.3)
Dynamic Range	119 dB
S/N Ratio (Gain 0 dB)	More than 55 dB
Gain	Auto
Shutter Speed	1/25[30] s to 1/15,000 s
Exposure Control	Automatic exposure, Fixed Shutter speed, Default shutter, Automatic iris control
White Balance	2500 to 10000K, 4 automatic modes (basic, standard, sodium vapor, dominant color), Manual mode and Hold mode
Lens	Automatic Varifocal (AVF)
Horizontal Viewing Angle	29° - 92°
Vertical Viewing Angle	18° - 50°
Focal Length	f = 3 mm - 10 mm
F-Number	F1.3 - F360

## Camera Features

Day / Night	True D/N
Day / Night linked with Easy Focus	Yes
Night Vision	850 nm, 30 m (98 ft), intensity adjustable
Auto-rotation Mode	No
e-Flip	Yes
Image Rotate	Yes
Mirroring	Yes
Wide-D	Yes
Tone Correction	Global Tone Mapping
Defog Image Processing	Yes
Highlight Compensation	Yes
Flicker Reduction	Yes
Distortion Correction	No
Noise Reduction	Yes

## Camera Features

Image Stabilizer	No
Intelligent Scene Capture	Yes
Privacy Masking (number)	Yes (8 areas)
Privacy Masking (shape)	Polygon
Privacy Masking (color/effect)	Opaque 1 color
Edge Storage	Yes
Voice Alert	No
Vandal Resistant	IK10
Ingress Protection	IP66
Hours Meter	No
Superimpose Number	Yes
Superimpose Language	Roman characters

## Video

Resolution	3072x1728, 1728x3072 (upright), 2688x1512, 1512x2688 (upright), 2304x1296, 1296x2304 (upright), 1920x1080, 1080x1920 (upright), 1280x1024, 1280x720, 640x480, 320x240
Compression Format	H.265, H.264, M-JPEG
Maximum Frame Rate	30/25 fps
Bitrate Control Mode	VBR
Solid PTZ	No
e-Varifocal	No
Adaptive Rate Control	Yes
Bandwidth Control	Yes
Evidence Shot	No
Multi streaming Capability	Yes (3)
Number of Clients	No hard limit
Letter Box	No

## Intelligent Video/Audio Analytics

Analytics Architecture	Yes
Intelligent Motion Detection	Yes

## Intelligent Video/Audio Analytics

Face Detection	No
Tamper Alarm	Yes
Advanced Audio Detection	Yes
Scene Analytics	Essential Video Analytics
Multi Tracking	Yes, 8 objects

## Audio

Compression Format	G.711.8 (8 kHz) / L16 (16kHz) / AAC-LC (16kHz)
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## System Requirements

Operating System	Windows 7 or later operating system
Memory	2GB or more
Web Browser	Internet Explorer Ver. 11 or later
SNC toolbox	Yes

## 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.
QoS	DiffServ
Multicast Streaming Support	Yes
ONVIF Conformance	Profile S, Profile G, Profile T
Microphone Input	No
Built-in Microphone	No
Line Input	Yes
Line Output	Yes
Network Port	10Base-T, 100Base-T
Alarm Input (Sensor Input)	Yes
Alarm Output	1 Relay output

## Interface

Card Slots	microSD x 1
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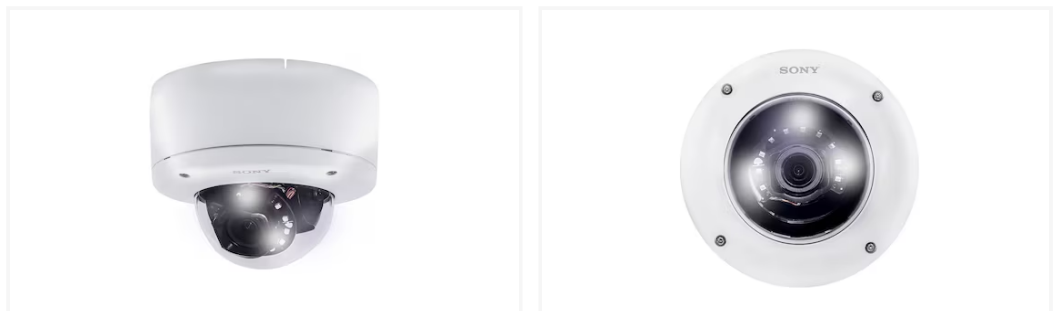
## Interface

Confirmed SD Card Type	SDHC (~32GB), SDXC (~2TB)
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## General

Power Requirements	+12 VDC $\pm$ 5%, 24 VAC $\pm$ 10% or IEEE 802.3af compliant (PoE system)
Power Consumption	10.8 W max
Operating Temperature	-40 °C to + 50 °C -40°F to + 122°F
Cold Start Temperature	-20 °C
Storage Temperature	-40 °C to + 70 °C -40 °F to + 158 °F
Operating Humidity	5% to 93% RH non condensing
Storage Humidity	Up to 98 %
Built-in Heater	No
Dimensions ( $\Phi$ x H) *1	$\Phi$ 164.9mm x 128.0 mm $\Phi$ 6.50 inches x 5.04 inches
Mass	Approx. 1.500 kg Approx. 3.31 lb
Safety Regulations	VCCI: V-2/2015.04 & V-3/2015.04 UL 60950-1 CAN/CSA-C22.2 No. 60950-1-07 CFR 47 FCC part 15 Class B AS/NZS CISPR 32 equal to CISPR 32 CE-EMC-Directive :EN55032 Class B, EN 50130-4: 2011+ A1: 2014, EN 50121-4: 2006 / AC: 2008 EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013 EN 55032: 2012 / AC: 2013 EN 55024: 2010+ A1: 2015
*1	The values for dimensions are approximate.

## Gallery



specifications are subject to change without notice. The values for mass and dimension are approximate. All trademarks are the property of their respective owners.