

## 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.

## Specifications

### Camera

Image Sensor	1/2.9-type progressive scan Exmor-R CMOS sensor
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
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
Face Detection	No
Tamper Alarm	Yes
Advanced Audio	Yes



## Detection

Scene Analytics	Essential Video Analytics
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Multi Tracking	Yes, 8 objects
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## 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
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Memory	2GB or more
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Web Browser	Internet Explorer Ver. 11 or later
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SNC toolbox	Yes
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## 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,
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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
Confirmed SD Card Type	SDHC (~32GB), SDXC (~2TB)

## 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
	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

Safety Regulations	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
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*1	The values for dimensions are approximate.
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## Gallery

