

SNC-EMX32R

Outdoor ruggedised minidome
Full HD video security camera
with Exmor CMOS sensor, IR
illumination and motorised
zoom



Overview

Superior Full HD imaging performance, indoors or outside

The SNC-EMX32R is a rugged, high performance minidome camera that offers richly detailed Full HD 1080p 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-EMX32R 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 Exmor sensor

The camera's high resolution Exmor CMOS image sensor captures smooth Full HD video 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.

Content Based Imaging Technology

Continually adjusts camera settings, taking into account changing lighting conditions and subject movement for optimised image quality while significantly reducing bandwidth requirements.

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.

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.

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.

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 CMOS sensor
Number of Effective Pixels	1920 x 1080 (FHD)
Minimum Illumination (30 IRE)	Color: 0.12 lx (F1.3) B/W: 0.018 lx (F1.3)

	IR mode: 0.0 lx (F1.3)
Dynamic Range	75 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	34° - 101°
Vertical Viewing Angle	19° - 54°
Focal Length	f = 3 mm - 10 mm
F-Number	F1.3 - F360

Camera Features

Day / Night	True D/N
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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	No
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	1920x1080, 1080x1920 upright, 1280x1024, 1024x1280 upright, 1280x720, 720x1280 upright, 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 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,
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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	9 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 (Φ x H) *1	Φ 164.9mm x 128.0 mm Φ 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

CLASS B

Safety Regulations 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

