

SNC-EMX30R

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



Overview

Excellent image quality in all lighting conditions

The SNC-EMX30R is a high performance indoor 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-EMX30R an ideal choice for demanding security, surveillance and monitoring applications.

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.

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.

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 features 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
	2500 to 10000K, 4 automatic modes (basic, standard, sodium

White Balance	vapor, dominant color), Manual mode and Hold mode
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Lens	Automatic Varifocal (AVF)
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Horizontal Viewing Angle	34° - 101°
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Vertical Viewing Angle	19° - 54°
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Focal Length	f = 3 mm - 10 mm
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F-Number	F1.3 - F360
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Camera Features

Day/Night	True D/N
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Day/Night linked with Easy Focus	Yes
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Night Vision	850 nm, 30 m (98 ft), intensity adjustable
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Auto-rotation Mode	No
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e-Flip	Yes
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Image Rotate	Yes
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Mirroring	Yes
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Wide-D	No
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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
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
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Intelligent Video/Audio Analytics

Analytics Architecture	Yes
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Intelligent Motion Detection	Yes
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Face Detection	No
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Tamper Alarm	Yes
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Advanced Audio Detection	Yes
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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, Dropbox™, CHAP, Digest Authentication.
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QoS	DiffServ
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Multicast Streaming Support	Yes
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ONVIF Conformance	Profile S, Profile G, Profile T
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Microphone Input	No
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Built-in Microphone	Yes
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Line Input	Yes
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Line Output	Yes
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Network Port	10Base-T, 100Base-T
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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	-20 °C to + 50 °C -4°F to + 122°F
Cold Start Temperature	-20 °C
Storage Temperature	-30 °C to + 70 °C -22 °F to + 158 °F
Operating Humidity	20% to 90% RH non condensing

Storage Humidity	up to 98 %
Built-in Heater	No
Dimensions (Φ x H) *1	Φ147.6mm x 104.2 mm Φ5.81 inches x 4.09 inches
Mass	Approx. 0.530 kg Approx. 1.17 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

