

## SNC-EMX30

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



### Overview

#### **Excellent image quality in all lighting conditions**

The SNC-EMX30 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.

With the additional benefits of smart analytics, convenient installation and powerful security features, the SNC-EMX30 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.

## **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 memory card. Pre-alarm recording 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.

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°
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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	No
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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
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Defog Image Processing	Yes
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Highlight Compensation	Yes
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Flicker Reduction	Yes
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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

1920x1080, 1080x1920 upright,

Resolution	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

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

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## Audio

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

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

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## Network

IPv4, IPv6, UDP, TCP, HTTP, HTTPS,

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Protocols	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	Yes
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)
<b>General</b>	
Power Requirements	+12 VDC $\pm 5\%$ , 24 VAC $\pm 10\%$ or IEEE 802.3af compliant (PoE system)
Power Consumption	6 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 ( $\Phi$ x H) *1	$\Phi 147.6\text{mm} \times 104.2 \text{ mm}$ $\Phi 5.81 \text{ inches} \times 4.09 \text{ inches}$
Mass	Approx. 0.530 kg Approx. 1.17 lb

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	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
Safety Regulations	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

