

## 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)<br>B/W: 0.018 lx (F1.3)<br>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,<br>1280x720, 720x1280 upright,<br>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<br>Capability | Yes (3)  |
| Number of Clients             | No hard limit  |
| Letter Box                    | No   |

## Intelligent Video/Audio Analytics

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|------------------------|-----|
| 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<br>-4°F to + 122°F                                      |
| Cold Start Temperature | -20 °C  |
| Storage Temperature    | -30 °C to + 70 °C<br>-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<br>Φ5.81 inches x 4.09 inches                         |
| Mass                   | Approx. 0.530 kg<br>Approx. 1.17 lb                                       |

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|--------------------|---|
|                    | VCCI: V-2/2015.04 & V-3/2015.04<br>UL 60950-1 CAN/CSA-C22.2 No.<br>60950-1-07 CFR 47 FCC part 15<br>Class B<br>AS/NZS CISPR 32 equal to CISPR<br>32   |
| Safety Regulations | CE-EMC-Directive :EN55032 Class<br>B, EN 50130-4: 2011+ A1: 2014, EN<br>50121-4: 2006 / AC: 2008<br>EN 60950-1:2006 + A11:2009 +<br>A1:2010 + A12:2011 + A2:2013<br>EN 55032: 2012 / AC: 2013 EN<br>55024: 2010+ A1: 2015 |

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\*1 The values for dimensions are approximate.

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## Gallery

