

## 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)<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 |
|                               | 2500 to 10000K, 4 automatic modes (basic, standard, sodium                       |

|               |   |
|---------------|---|
| White Balance | 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

|           |          |
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| 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 |
|--------|----|

| 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 |
|------------|----|

## Intelligent Video/Audio Analytics

|                        |     |
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| 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 |
|-----------------|---------------------------|

|                |                |
|----------------|----------------|
| Multi Tracking | Yes, 8 objects |
|----------------|----------------|

## Audio

|                    |  |
|--------------------|--|
| 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 |
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|--------|-------------|
| Memory | 2GB or more |
|--------|-------------|



|             |                                    |
|-------------|------------------------------------|
| Web Browser | Internet Explorer Ver. 11 or later |
|-------------|------------------------------------|

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|-------------|-----|
| 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, Dropbox™, CHAP, Digest Authentication. |
|-----------|--|

|     |          |
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| QoS | DiffServ |
|-----|----------|

|                             |     |
|-----------------------------|-----|
| Multicast Streaming Support | Yes |
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|                   |                                 |
|-------------------|---------------------------------|
| ONVIF Conformance | Profile S, Profile G, Profile T |
|-------------------|---------------------------------|

|                  |    |
|------------------|----|
| 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 |
|--------------|---------------------|

|                            |   |
|----------------------------|---|
| Alarm Input (Sensor Input) | Yes   |
| Alarm Output               | 1 Relay output  |
| <b>Interface</b>           |   |
| 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          | 9 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   |
| Safety Regulations    | VCCI: V-2/2015.04 & V-3/2015.04<br>UL 60950-1 CAN/CSA-C22.2 No. 60950-1-07 CFR 47 FCC part 15 Class B<br>AS/NZS CISPR 32 equal to CISPR 32<br>CE-EMC-Directive: EN55032 Class B, EN 50130-4: 2011+ A1: 2014, EN 50121-4: 2006 / AC: 2008<br>EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013<br>EN 55032: 2012 / AC: 2013 EN 55024: 2010+ A1: 2015 |
| *1                    | The values for dimensions are approximate.  |

## Gallery

