

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° |
|------------------------|-----------|

| | |
|--------------|------------------|
| Focal Length | f = 3 mm - 10 mm |
|--------------|------------------|

| | |
|----------|-------------|
| F-Number | F1.3 - F360 |
|----------|-------------|

Camera Features

| | |
|-----------|----------|
| Day/Night | True D/N |
|-----------|----------|

| | |
|----------------------------------|-----|
| Day/Night linked with Easy Focus | Yes |
|----------------------------------|-----|

| | |
|--------------|----|
| Night Vision | No |
|--------------|----|

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

| | |
|--------------------------|---------------------------|
| 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) |
|--------------------|--|

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

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

| | |
|-----------------------------|---|
| 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) |
| General | |
| 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 (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 |

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

*1 The values for dimensions are approximate.

Gallery

