

SNC-HMX72

360-degree outdoor Hemispheric-view
Camera



Overview

Robust housing with all-round vision

The SNC-HMX72 is an outdoor 360-degree Hemispheric-view Camera. The camera's fixed lens and high-resolution 12 megapixel CMOS sensor offer full 360-degree panoramic surveillance with excellent image quality and complete area coverage - providing full situational awareness plus simultaneous Electronic pan/tilt/zoom (ePTZ) views in high resolution.

The camera lens captures a circular image that can be transformed using in-camera dewarping into several different distortion-free rectangular views.

Built-in Essential Video Analytics can trigger relevant alerts and quickly retrieve data on full hemispheric overview, making the SNC-HMX72 ideal for applications such as people counting, wrong way detection or smart data for other use cases.

The camera is suitable for outdoor installation where movement is a constant, such as parking lots, school areas and shopping mall.

Features

High resolution 12 megapixel sensor

The camera's high resolution CMOS sensor captures smooth, detailed panoramic video images at 30fps.

Electronic pan/tilt/zoom (ePTZ) and Regions of Interest

Remote Electronic pan/tilt/zoom (ePTZ) allows selection and monitoring of specific Regions of Interest (ROI) at high resolution, ensuring that important details aren't lost even when using electronic zoom. Wide area situational awareness is still retained even when zoomed in on a particular object of interest.

Choice of view modes

Enjoy greater monitoring flexibility with choice of Panoramic, Quad, ePTZ and Corridor viewing modes.

Great pictures in any environment

Nine configurable scene modes optimise exposure settings for wide range of daytime or night applications.

In-camera dewarping

In-camera edge dewarping provides three simultaneous video channels (full image circle, dewarped view, ePTZ).

Essential video analytics

Built-in analytics allow the camera to reliably detect, track and analyse objects, providing alerts in response to predefined alarm rules. Since the camera continuously monitors the full image circle, alarms are still generated even when the viewer is zoomed in on a different region of the image.

Support Detect, Observe, Recognize and Identify

Complies with Detect, Observe, Recognize and Identify specifying the camera's ability to distinguish parking in a no parking zone or restricted area.

Record exactly what you want

The full resolution circular image is always recorded, even if only a portion of the scene is being viewed. Retrospective dewarping can be performed on the entire area, with zooming in on any region of interest. Alternatively, only relevant parts of the scene can be recorded to reduce bitrates significantly.

Intelligent Dynamic Noise Reduction

Intelligently distinguishes between noise and relevant image information, reducing bitrate without compromising video quality.

Area-based encoding

Adjust compression for user-definable regions, prioritising bandwidth for important parts of the scene.

Outstanding dynamic range

Wide 92dB dynamic range (plus additional 16dB combined with Intelligent Auto Exposure) captures crucial image detail, even in high-contrast scenes with extreme lighting levels.

Priority exposure control

Optimise image quality by prioritising exposure calculation on selected image areas.

Intelligent Auto Exposure

Get perfect pictures in every situation, with front light and backlight compensation that adapts to changing light conditions.

Ideal for outdoor installation

The camera's robust design is ideal for outdoor installation. It gives a single solution for outdoor environments with an integrated IP66 and IK10 design. Multiple mounting accessories are available for fitting on the wall, pipe or eave. Power-over-Ethernet connection simplifies integration.

Edge recording

Insert an optional memory card and store up to 2TB of local alarm recording. Pre-alarm recording reduces network bandwidth.

Secure access

Supports password protection with three levels and 802.1x authentication.

Seamless system integration

Conforms to ONVIF Profile S, ONVIF Profile T, ONVIF Profile G specifications, guaranteeing interoperability with other network video. Third-party integrators can directly access the camera's internal features.

Specifications

Camera	
Image Sensor	1/2.3-type progressive scan CMOS sensor

Number of Effective Pixels	Approx. 12 Megapixels
Minimum Illumination (30 IRE)	Color: 0.55 lx (F2.8) B/W: 0.18 lx (F2.8)
Dynamic Range	92 db WDR (+16 db IAE)
S/N Ratio (Gain 0 dB)	More than 50 dB
Gain	Auto
Shutter Speed	1/30 s to 1/15,000 s
Exposure Control	Automatic exposure, Shutter speed
White Balance	2500 to 10000K, 4 automatic modes (basic, standard, sodium vapor, dominant color), Manual
lens	Fixed lens
Horizontal Viewing Angle	180°
Vertical Viewing Angle	180°
Focal Length	f = 1.6 mm
F-Number	F2.8
Minimum Object Distance	100 mm
Number of Preset Positions	6

Camera Features

Day/Night	True D/N
360°Hemispheric / 180°Panoramic View Modes	Yes / Yes
Auto-rotation Mode	Yes
Wide-D	Yes
Defog Image Processing	Yes
Noise Reduction	Yes
Privacy Masking (number)	8
Privacy Masking (shape)	Shape formed by any five corner points
Privacy Masking (color/effect)	Opaque 1 colors (Black)
Edge Storage	Yes
Vandal Resistant	IK10
Ingress Protection	IP66
Menu Language	English, Japanese, Chinese (simplified), French, Spanish, German, Italian, Portuguese,

Video

Resolution	2640 x 2640, 3584 x 504, 1536 x 864, 2688 x 800, 1920 x 1080, 1600 x 1200, 1280 x 720
Compression Format	H.264, M-JPEG
Maximum Frame Rate	30/25 fps
Bitrate Control Mode	VBR
Solid PTZ	Yes
Multi streaming Capability	Yes (3)

Intelligent Video / Audio Analytics

Intelligent Motion Detection	Yes
Tamper Alarm	Yes

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
Web Browser	Internet Explorer Ver. 11 or later
SNC toolbox	Yes

Network

Protocols	IPv4, IPv6, UDP, TCP, HTTP, HTTPS, RTP/RTCP, IMGP V2/V3, ICMP, ICMPv6, RTSP, FTP, Telnet, ARP, DHCP, APIPA (Auto-IP, link local address), NTP(SNTP), SNMP(V1, MIB-2), 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

Interface

Microphone Input	Built-in Microphone
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Network Port	10Base-T, 100Base-T
Card Slots	SD x1
Confirmed SD Card Type	SDHC (up to 32GB), SDXC (up to 2TB)

General

Power Requirements	IEEE 802.3af compliant (PoE system)
Power Consumption	6.72 W
Operating Temperature	-30 °C to + 45 °C -22°F to + 113°F
Storage Temperature	-20 °C to + 60 °C -4 °F to + 140 °F
Operating Humidity	20 % to 93 %
Storage Humidity	up to 98 %
Dimensions (W x H x D) *1	Φ174.9 x 108.4 mm Φ6.886 x 4.267 inches
Mass	Approx. 2.06 kg Approx. 4.54 lb

*1

The values for dimensions are approximate.

Gallery

