

SNC-CH160

Outdoor IR Bullet 720p/30
fps Camera - E Series



Overview

The SNC-CH160 is a high definition (720p) 1.3 Megapixel (1280 x 1024 maximum resolution) bullet network security camera with True Day/Night function, Intelligent Motion Detection and DEPA. It comes equipped with IR Illumination to assist with capturing objects in the dark, and is IP66-rated for outdoor protection against dust and water ingress.

Sony's Exmor CMOS sensor provides excellent pictures and event detection for effective evidence gathering.

Sony's E-Series cameras have outstanding picture quality and a range of features at an affordable price.

Features

DEPA

The SNC-CH160 offers intelligent video analytics, based on the Sony DEPA platform. DEPA is a combined function of the intelligence built in to the camera and rules/filters that determine which images should be recorded or when an alarm should be triggered.

EXMOR® and CMOS Sensor®

High resolution CMOS sensor® with low noise characteristics for improved image acquisition. Derived

from Sony's broadcast product range, EXMOR® is one of the highest quality image sensors available.

Power over Ethernet (PoE) capability

Supporting Power over Ethernet (PoE), the camera can be powered using the same Ethernet cable it uses for data transfer. This feature greatly reduces the physical infrastructure costs and speed of deployment.

ONVIF (Open Network Video Interface Forum) compliance

The ONVIF (Open Network Video Interface Forum) defines a common protocol for the exchange of information between network video devices including automatic device discovery and video streaming. Allows interoperability between network video devices.

HD (720p) resolution

Detailed 720p HD progressive images. Progressive acquisition (as opposed to interlace) means that images are more stable to view, contain more information and compress more efficiently - without "interlace artefacts".

Supports multiple industry standard codecs: H264, MPEG-4 and JPEG with dual streaming capability

This multi-codec camera supports three compression formats: JPEG, the best choice of high-quality still images

Stream Squared Function

An incredibly useful function that allows simultaneous streaming of two 4:3 aspect ratio videos in user-selectable SD resolutions. You can select the entire image or a portion of the image from the original view and resize to SD resolution. With this feature the SNC-CH160 can replace two SD cameras installed in the same line of view.

True Day/Night

Optimises sensitivity in day and night conditions. As night falls, an infra-red filter is automatically removed and the camera switches to monochrome. In this mode, the camera can acquire images extremely low light conditions.

IR Illuminators

Built-in IR (Infrared) illuminators provide assistance to the camera when capturing objects in the dark.

Easy Focus/Easy Zoom

Easy Focus/Easy Zoom simplifies installation by making it easy to set up the focus and zoom settings of the camera.

Built-in heater

Ensures that the camera will operate correctly in cold weather.

Analogue Monitor Output

This allows an analogue video monitor to be connected directly to the camera.

Specifications

Camera

Image Sensor	1/3 type progressive scan "Exmor" CMOS sensor
Number of Effective Pixels	Approx. 1.4 Megapixels
Signal System	NTSC color system/PAL color system (switchable)
Sync System	Internal synchronization

Minimum Illumination (50 IRE)	Color: 0.50 lx (F1.2/ AGC 42 dB / 50 IRE) BW: 0 lx((IR ON) (F1.2/ AGC 42 dB / 50 IRE)
Minimum Illumination (30 IRE)	Color: 0.30 lx (F1.2, AGC 42 dB, 1/30 s) B/W: 0.00 lx (F1.2, AGC 42 dB, 1/30 s)
Dynamic Range	More than 60 dB
Gain	Auto
Shutter Speed	1 s to 1/10000 s
Exposure Control	Auto, EV Compensation*1, Auto Slow Shutter*2
White Balance	Auto (ATW, ATW-PRO), Preset, One-push WB, Manual
Lens	Built-in varifocal lens
Powered Zoom	No
Easy Zoom	Yes
Zoom Ratio	Optical 2.9x Digital zoom 3x Total zoom 8.7x
Powered Focus	Yes (Easy Focus)
Horizontal Viewing Angle	85.4° to 31.2°
Focal Length	f =3.1 mm to 8.9 mm
F-Number	F1.2 (Wide), F2.1 (Tele)

Minimum Object Distance	300 mm
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IR Illuminator	Yes (Wave Length: 850 nm [Typical], IR LED: 21 pieces)
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Camera Features

Day/Night	True D/N
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Wide-D	No
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Tone Correction	No
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Noise Reduction	NR
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Image Stabilizer	No
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Vandal Resistant	No
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Ingress Protection	IP66
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Video

Resolution	1280 x 1024, 1280 x 960, 1280 x 800, 1280 x 720, 1024 x 768, 1024 x 576, 800 x 600, 800 x 480, 768 x 576, 720 x 576, 720 x 480, 704 x 576, 640 x 480, 640 x 368, 384 x 288, 320 x 240, 320 x 192 (H.264, MPEG-4, JPEG)
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Compression Format	H.264, MPEG-4, JPEG
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	H.264: 20 fps (1280 x 1024)/30 fps (1280 x 720)
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Maximum Frame Rate	MPEG-4: 25 fps (1280 x 1024)/30 fps (1280 x 720) JPEG: 30 fps (1280 x 1024)/30 fps (1280 x 720)
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Multi streaming Capability	Dual streaming*3
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Number of Clients	5
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Intelligent Video/Audio Analytics

Analytics Architecture	DEPA
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Intelligent Motion Detection	Yes
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System Requirements

Operating System	Microsoft Windows XP Windows Vista (32 bit) Windows 7 (32 bit, 64 bit)
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Processor	Intel Core2 Duo 2 GHz or higher
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Memory	1 GB or more
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Web Browser	Microsoft Internet Explorer Ver. 6.0, Ver. 7.0, Ver. 8.0 Firefox Ver. 3.5 (plug-in free viewer only) Safari Ver. 4.0 (plug-in free viewer only) Google Chrome Ver.4.0 (plug-in free viewer only)
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Network

Protocols	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client only), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP (MIB-2)
Number of IP Address/Mac ADDRESS	1
ONVIF Conformance	Profile S
Wireless Network	No
Authentication	IEEE802.1X

Interface

Analog Monitor Output for Setup	Phono jack x1 (1.0 Vp-p, 75 Ω, unbalanced, sync negative)
Network Port	10BASE-T/100BASE-TX (RJ-45)
Alarm Input (Sensor Input)	x1, make contact, break contact
Alarm Output	x1, AC/DC 24 V, 1 A (mechanical relay outputs electrically isolated from the camera)
USB Slots	No

General

Power Requirements	IEEE 802.3af compliant (PoE) Class 0
Power Consumption	12.9W max.
Operating Temperature	-30 to +50°C -22 to +122°F
Cold Start Temperature	PoE (IEEE802.3af): -20 to +50°C (-4 to +122°F)
Storage Temperature	-20°C to +60°C -4°F to +140°F
Operating Humidity	20% to 80%
Storage Humidity	20% to 95%
Dimensions*4	φ93 x 186 mm φ3 3/4 x 7 3/8 inches φ140 x 334.8 mm (including arm) φ5 3/8 x 13 1/4 inches (including arm)
Mass	Approx.1520g Approx. 3 lb 5.6 oz
Safety Regulations	UL2044, FCC Class A Digital Device, IC Class A Digital Device, IEC60950-1, EN55022(A)+EN55024+EN50130-4, VCCI Class A, AN/NZS CISPR22
	CD-ROM (User's Guide, SNC)

Supplied Accessories	Toolbox) (1) Installation Manual (1) Wire rope (1) +M4x8 screw (1) B&P warranty booklet (1) Template (1)
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Notes

*1	VE off mode only.
*2	View-DR off mode only.
*3	Dual streaming (Any combination with JPEG/MPEG-4/H.264, including multiple streams of the same format)
*4	The values for dimensions are approximate.

Gallery

