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SNC-CH160

E Series bullet HD (720p) resolution network security camera with IR illuminators

The SNC-CH160 is a high definition (720p) 1.3 Megapixel (1280 x 1024 maximum resolution) bullet network security camera with Optical 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.

This product comes with the full PrimeSupport package. That's fast, hassle-free repairs, a helpline offering expert technical advice, and a free loan unit while yours is repaired. Plus the peace of mind that Sony is looking after your equipment – and your business.

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; MPEG-4, the format that provides clear moving images efficiently over limited-bandwidth networks; and H.264, the alternative for severely limited-bandwidth networks, providing twice the efficiency of MPEG-4. The camera can generate multiple streams simultaneously.

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.

Optical 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.

Technical Specifications

Camera	
Image device	1/3 type progressive scan "Exmor" CMOS sensor
Minimum illumination	0.50lx (Color), 0 lx (BW) (IR ON) (F1.2/AGC 42dB/50IRE [IP])
Number of effective pixels (H x V)	1.4 Megapixel (1329 x 1049)
Electronic shutter speed	1 s to 1/10000 s
Gain control	Auto
Exposure control	Auto, EV Compensation, Auto Slow Shutter
White balance mode	Auto (ATW, ATW-PRO), Preset, One-push WB, Manual
Lens type	Vari-focal lens
Zoom ratio	Optical 2.9X
Horizontal viewing angle	85.4 to 31.2 degrees
Focal length	f=3.1 to 8.9 mm
F-number	F1.2 (Wide), F2.1 (Tele)
Minimum objects distance	300 mm
Powered focus	Yes (Easy Focus)
Powered zoom	Yes (Easy Zoom)
IR illuminators	Yes (Wave Length: 850nm [Typical], IR LED: 21pcs)

Camera Features	
Day/Night *1	Yes
Noise reduction	Yes

Image	
Codec image size (H x V)	1280 x 1024, 1280 x 960, 1280 x 800, 1280 x 720, 1024 x 768, 1024 x 576, 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)
Video compression format	H.264, MPEG-4, JPEG
Codec streaming capability	Dual streaming
Maximum frame rate	H.264: 20fps (1280 x 1024) / 30 fps (1280 x 720) MPEG-4: 25fps (1280 x 1024) / 30 fps (1280 x 720) JPEG: 30fps (1280 x 1024) / 30 fps (1280 x 720)

Scene Analytics	
Intelligent motion detection	Yes

Network	
Protocols	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client only), SMTP, DHCP, DNS,NTP, RTP/RTCP, RTSP, SNMP (MIB-2)
ONVIF conformance	Yes
Number of clients	5
Authentication	IEEE802.1X

Analog Monitor Output	
Signal system	NTSC / PAL

Interface	
Ethernet	10BASE-T / 100BASE-TX (RJ-45)
Analog monitor output	Phono jack x 1
Sensor input	x 1, make contact, break contact
Alarm output	x 1, 24V AC/DC, 1A (Mechanical relay outputs electrically isolated from the camera)

General	
Mass	1520 g (3 lb 6 oz)
Dimensions	93 x 186 mm (3 3/4 x 7 3/8 inches) 140 x 334.8 mm (5 5/8 x 13 1/4 inches) (including arm)
Power requirements	PoE
Power consumption	12.9 W max
Starting temperature	-20 to +50 °C (-4 to +122°F)
Working temperature	-30 to +50 °C (-22 to +122°F)
Storage temperature	-20 to +60 °C (-4 to +140°F)
Ingress protection	IP66

Safety regulation	UL2044, FCC 15B Class A, IC Class A, IEC60950-1, EN55022(A)+EN55024+EN50130-4, VCCI Class A, C-Tick Class A

System Requirements

Operating system	Microsoft Windows XP, Windows Vista(32bit), Windows 7(32bit)
Processor	Intel Core2 Duo 2 GHz or higher
Memory	1 GB or more
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)

Supplied Accessories

Supplied Accessories	CD-ROM (User's Guide, SNC Toolbox) Installation manual Wire rope +M4x8 screw B&P Warranty Booklet Template

Notes

Notes	*1 Removable IR Cut Filter. *The SNC-CH160 includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/).