

Product Information

# 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.

1-year PrimeSupport is included as standard within the EU, Norway and Switzerland. This gives users access to an expert helpdesk and, in the unlikely event of a failure, will arrange for an advance replacement unit to be delivered within a target time of one working day. An additional 2-years support is also available as an option.

## 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-DH220 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 1280 x 1024, 1280 x 960, 1280 x 800, 1280 x 720, 1024 x 768, 1024 x 576,  
 image size 800 x 480, 768 x 576, 720 x 576, 720 x 480, 704 x 576, 640 x 480, 640 x  
 (H x V) 368, 384 x 288, 320 x 240, 320 x 192 (H.264, MPEG-4, JPEG)

Video  
 compression H.264, MPEG-4, JPEG  
 format

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/>).

# **Accessories**

## **Warranty and Support Agreements**



### **PrimeSupport Plus VS2**

2 Year Extension for Video Security

[www.pro.sony.eu/videosecurity](http://www.pro.sony.eu/videosecurity)