SONY
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IPELA

SNC-CH160
Network HD Bullet Camera

- Excellent 720p HD picture quality, supporting H.264 at 30 fps

- 1.3 Megapixel (1280 x 1024) maximum resolution

- Three codecs (H.264, MPEG-4, JPEG) and a dual streaming capability

- The "Exmor" CMOS sensor incorporated to realise high image quality and low noise

HD

Key Features

- Stream Squared function to send two 4:3 aspect ratio videos in user-selectable resolutions up to SD simultaneously.

Example

Dual Streaming

1st Streaming
VGA video of a whole

2nd Streaming
VGA video of a cropped area

- IP66-rated waterproof and dust-tight feature for outdoor surveillance, or indoor where water ingress may pose an issue.

- Easy Focus/Easy Zoom functions for easy installation.

- Optical Day/Night function to switch to Day or Night mode depending on the light level.

- Recording software (RealShot Manager Lite) is bundled to start recording and monitoring instantly.

- Intelligent Motion Detection that supports DEPA. **DEPA**

- Analog monitor output (phono jack).

- Powered by PoE (Power over Ethernet) for simple installation.

- Equipped with a built-in heater for continued camera operation in cold weather.

- ONVIF (Open Network Video Interface Forum) conformance that ensures greater interoperability and more flexibility in building multiple-vendor systems. **Onvif**

- Built-in IR (Infrared) illuminators to assist capturing objects in the dark even under 0 lx, up to 15 m (49 feet) away.

OFF   ON

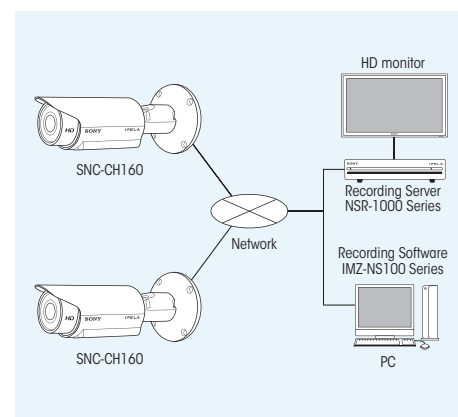Actual images of one of Sony's HD cameras with IR illuminators.

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SPECIFICATIONS

SNC-CH160

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*2, 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	ø93 x 186 mm (3 3/4 x 7 3/8 inches) ø140 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
	CD-ROM (User's Guide, SNC Toolbox) Installation manual Wire rope +M4x8 screw B&P Warranty Booklet Template

*1 Removable IR Cut Filter.   *2 Resolution defined by SMPTE 296M.
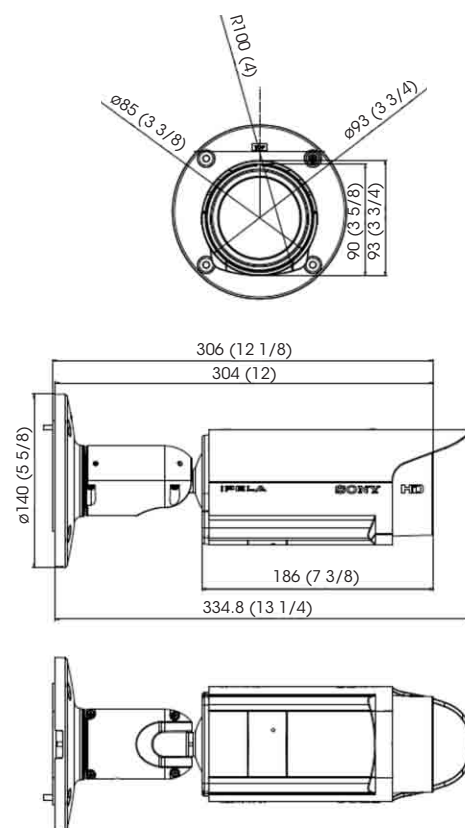
*The SNC-CH160 includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/).

SYSTEM CONFIGURATIONS

DIMENSIONS

Unit: mm (inches)

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