

**SNC-CH180**

Fixed HD camera that can see in the dark; capturing clear pictures even in absolute darkness (0 lx)

An important addition to Sony's superlative range of network security systems, the SNC-CH180 is an HD camera that can see in the dark, with infra-red IR Illuminator. It captures clear pictures even without any visible light.

This feature-rich HD fixed security camera comes with Sony's image enhancement expertise. It includes View-DR for a very wide dynamic range in difficult lighting conditions, and XDNR for incredibly powerful noise reduction. Couple these with the SNC-CH180's IR Illuminator, and you have a powerful HD network security camera.

The SNC-CH180 projects infra-red light 15 metres from the lens and beyond, effortlessly capturing clear images where other devices would see only darkness\*.

Sony's DEPA Advanced Intelligent Video and Audio Analytics means the SNC-CH180 delivers crystal-clear images and automatic alarm triggers and alerts - based on user-defined rules. The SNC-CH180 also offers excellent protection against vandals and the weather.

This is a camera that's ready for anything.

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.

\*Infra Red light is monochromatic (single colour), so images captured in Infra Red light will appear to be black and white

## Benefits

### **Captures images in complete darkness using IR illuminators.**

Captures clear images in complete darkness, up to 15m from the lens, and often beyond. In low light, or even in no light, the SNC-CH180 still gets the picture

### **High Definition image capture**

Resolve smaller details in images thanks to 720p 30fps capture resolution

### **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.

### **View-DR (Visibility Enhanced Wide Dynamic Range) for extra dynamic range in images captured by the camera**

With Sony's View-DR (Visibility Enhanced Wide Dynamic Range) innovation, you can achieve a high contrast ratio of 125dB. This ensures realistic tonal detail, and state-of-the-art image enhancement with a wide, dynamic range capability.

### **XDNR eXcellent Dynamic Noise Reduction to improve pictures in low illumination**

XDNR (Excellent Dynamic Noise Reduction) technology virtually eliminates image blur in low-light conditions, enabling users to clearly capture images that have not been easy to portray in the past. It also overcomes the problems associated with many competitor camera models. What's more, when both XDNR and Visibility Enhancer are turned on, the cameras can achieve four times the sensitivity compared to when they are off. This technology is ideal for any outdoor surveillance monitoring, such as in a car park at night.

### DEPA Advanced analytics triggers alarms and alerts based on user-created rules

DEPA Advanced Intelligent Video and Audio Analytics can analyse images to detect whether pre-selected objects have moved, raising an alarm if an event is detected. Users create a set of rules that determine exactly how and when this happens

### Power over Ethernet (PoE) capability

Supporting Power over Ethernet (PoE), the SNC-CH180 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

### Built-in heater for cold weather

With a built-in heater, the SNC-CH180 will work in temperatures from -20 to 50°C (does not work with PoE).

### IP66 rating against water ingress/damage

The SNC-CH180 is rain and splash-proof – essential for serious outdoor use

### ONVIF (Open Network Video Interface Forum) compliance

Compliance with ONVIF Open Network Video Interface Forum) ensures interoperability and maximum flexibility between a wide range of manufacturers' network video products.

## Technical Specifications

General	
Starting Temperatures	AC24V/DC12V: -20 to +50 °C (-4 to +122°F) (Tentative) PoE (IEEE802.3af): 0 to 50 °C (32 to 122°F) (Tentative)
Working Temperature	AC24V/DC12V: -30 to +50 °C (-22 to +122°F) (Tentative) PoE (IEEE802.3af): -10 to +50 °C (23 to 122°F) (Tentative)
Storage Temperature	-20 to +60 °C (-4 to +140°F)
Ingress protection	IP66
Mass	1600g (3lb 8oz)
Dimension (W x H x D)	85 x 90 x 186 mm (3 3/8 x 3 5/8 x 7 3/8 inches) 140 x 140 x 334.8 mm (5 5/8 x 5 5/8 x 13 1/4 inches) (including arm)
Power requirements	PoE *5, AC24V, DC12V

Camera	
Image Device	1/3 type progressive scan "Exmor" CMOS sensor
Number of effective pixels (H x V)	1.4 Megapixel (1329 x 1049)
Electronic shutter speed	1s to 1/10000s
Gain control	Auto (3 levels)
Exposure control	Auto, EV Compensation *1, Auto Slow Shutter *2
White balance mode	Auto (ATW, ATW-PRO), Preset, One-push WB, Manual
Lens type	Vari-focal lens
Zoom ratio	Optical 2.9X (x2 Digital Zoom)
Horizontal viewing angle	85.4 to 31.2 degrees
Focal length	f=3.1 to 8.9mm
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: 27pcs)

Camera Features	
Day/Night *3	Yes
Wide -D	View-DR (125dB: Theoretical)
Image enhancement	Visibility Enhancer
Noise reduction	XDNR

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)

Audio	
Audio Compression	G.711/G.726

Scene Analytics	
Intelligent motion detection	Yes( with built in Post Filter)
Intelligent object detection	No
Rule filter	Yes

**Network**

Protocols	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client/server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP (MIB-2)
ONVIF conformance	Yes
Wireless network	Yes (with Option *4)
Number of clients	10
Authentication	IEEE802.1x

**Analog Video Output**

Signal system	NTSC/PAL
Horizontal resolution	600 TV lines
S/N ratio	More than 50dB

**Interface**

Ethernet	10BASE-T / 100BASE-TX (RJ-45)
Serial interface	No
Card Slots	CF card x1
Analog Video Output	BNC x 1, RCA x 1
Sensor Input	x1
Alarm output	x2
External microphone input	Mini-jack (Monaural), MIC IN/LINE IN: 2.5VDC plug-in power

Audio line output

Mini-jack (Monaural), Max output level: 1 Vrms

**System requirements**

Operating system	Windows XP, Windows Vista, Windows 7
Processor	Intel Core2 Duo 2 GHz or higher
Memory	1 GB or more
Web browser	Microsoft Internet Explorer Ver6.0, 7.0, or 8.0
Notes	*1 VE off mode only. *2 View-DR off mode only. *3 Removable IR Cut Filter. *4 With optional SNCA-CFW5. *5 When used with PoE, SNC-CH180 cannot be used with a heater and a CF card slot.

**Supplied Accessories**

CD-ROM (User's Guide, SNC Toolbox)	
Installation manual	
Wire rope	
M4 screw	
B&P Warranty Booklet	
Template	