

SNC-DH180

A vandal-resistant, wide dynamic range mini-dome camera with built-in infrared (IR) illuminators.



An important addition to Sony's superlative range of network security systems, the SNC-DH180 is an HD camera that can see in absolute darkness (0 lx), with its built-in infrared (IR) illuminator. It captures clear pictures even without any visible light.

This feature-rich HD mini-dome 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-DH180's IR Illuminator, and you have a powerful HD network security camera.

The SNC-DH180 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-DH180 delivers crystal-clear images and automatic alarm triggers and alerts - based on user-defined rules. The SNC-DH180 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

Features

Captures images in complete darkness using IR Illuminators.

Outstanding HD picture quality: 720p at 30fps

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

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

XDNR eXcellent Dynamic Noise Reduction to improve pictures in low illumination

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

Power over Ethernet (PoE) capability

Built-in heater for cold weather

IP66 rating against water ingress/damage

IK10 rating against external impact/vandalism

ONVIF (Open Network Video Interface Forum) compliance

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-DH180 still gets the picture

Outstanding HD picture quality: 720p at 30fps

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-DH180 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-DH180 will work in temperatures from -20 to 50°C (does not work with PoE).

IP66 rating against water ingress/damage

The SNC-DH180 is rain and splash-proof – essential for serious outdoor use

IK10 rating against external impact/vandalism

The SNC-DH180 withstands severe impacts from thrown objects and other types of vandalism

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	
Mass	1380G (3lb 1oz)
Dimension (W x H x D)	166 x 119 mm (6 5/8 x 4 3/4 inches)
Power requirements	PoE *5, AC24V, DC12V
Starting Temperatures	AC24V/DC12V: -20 to +50 °C (-4 to +122°F) PoE (IEEE802.3af): 0 to 50 °C (32 to 122°F)
Working Temperature	AC24V/DC12V: -30 to +50 °C (-22 to +122°F) PoE (IEEE802.3af): -10 to +50 °C (23 to 122°F)
Storage Temperature	-20°C to +60°C (-4°F to 140 °F)
Ingress protection	IP66
Vandal Resistant	IK10

Camera	
Image Device	1/3 type progressive scan "Exmor" CMOS sensor
Minimum illumination	0.2 lx (Color) 0 lx (B/W) - IR ON, (F1.2 / View-DR Off/VE Off / AGC High(48dB max.) / XDNR Middle / 50IRE [IP])
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 Focus)
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) H.264/MPEG-4/JPEG: 30 fps (1280 x 720)

Audio

Audio Compression	G.711/G.726
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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 compliance	Yes
Wireless network	No
Number of clients	10
Authentication	IEEE802.1x

Analog Video Output

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

Interface

Ethernet	10BASE-T / 100BASE-TX (RJ-45)
Serial interface	No
Card Slots	No
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, Window Vista
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 When used with PoE, SNC-DH180 cannot be used with a heater.

Supplied Accessories

CD-ROM (User's Guide, SNC Toolbox)	
Installation manual	
Wire rope, Bracket, BNC cable	
I/O cable, Audio Cable, M\$ Shoulder Screw,	
M4 Screw x4, Flyee, L-Wrench	
B&P Warranty Booklet, Template	

Accessories**Warranty and Support Agreements****PrimeSupport Plus VS2**

2 Year Extension for Video Security