Vision with Precision for Demanding Outdoor HD Security

Sony is pleased to introduce a powerful addition to its network HD camera lineup, the SNC-DH180. This vandal-resistant, wide dynamic range camera is designed with a built-in infrared (IR) illuminator. As a dual-stream network camera, it supports H.264, MPEG-4, and JPEG compression formats, and delivers excellent picture quality in HD 720p resolution at 30 frames per second (fps).

Incorporating the new Exmor™ CMOS image sensor from Sony, which is specially designed for surveillance applications, this rugged camera features state-of-the-art image-enhancement technology, View-DR, which demonstrates an extremely wide dynamic range. The SNC-DH180 also features an IR illuminator to deliver quality images even in absolute darkness (0 lx)*. Along with a host of superb features such as DEPA™ Advanced, PoE, a built-in heater, and the Easy Focus/Easy Zoom function, the SNC-DH180 Mini Dome Network Camera is ideal for the most demanding surveillance applications.
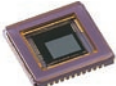
HD

* 0 lx requires the use of IR illuminators. IR rays are not visible to the human eye.

Network HD Mini Dome Camera
SNC-DH180

| Preliminary |

FEATURES

- Excellent HD[*1] picture quality, supporting H.264 at 30 fps **HD**

- The new Exmor CMOS sensor demonstrates high image quality and high sensitivity for surveillance *Exmor*™

- Clearly see objects in the dark up to 15 m (49 feet) away with IR Illuminators, which allow the camera to operate in 0 lx[*2] lighting conditions [*3] (Images 1)

- Superb dynamic range using newly developed View-DR (Visibility enhanced wide Dynamic Range) technology (Images 2) *View-DR*

- The Visibility Enhancer optimizes contrast and makes the subject more visible, even in severe backlight or shadow conditions

- XDNR (eXcellent Dynamic Noise Reduction) technology for clear images without motion blur under low illumination (Images 3)

- Easy Focus function/Easy Zoom function

- DEPA Advanced Intelligent Video and Audio Analytics trigger an alarm, based on user-defined rules
  - ▶ Intelligent Motion Detection
  - ▶ Tamper Alarm
  - ▶ Advanced Audio Detection[*4]

  DEPA Advanced

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

- Power over Ethernet (PoE) capability

- Built-in heater for use in cold

- IP66 Rating

- ONVIF™ Software (Open Network Video Interface Forum) **Onvif**
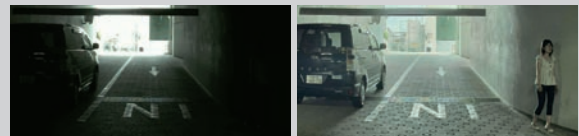
*1 1280 x 720   *2 0 lx requires the use of IR illuminators. IR rays are not visible to the human eye.   *3 When the IR illuminator is activated, the image is in black and white.   *4 Available with software version 1.1 or later.

Drastic Improvement in Visibility

IR Illuminator
(Images 1)

View-DR (Visibility enhanced wide Dynamic Range)
(Images 2) *View-DR*

OFF   ON   Actual Images

XDNR (eXcellent Dynamic Noise Reduction)
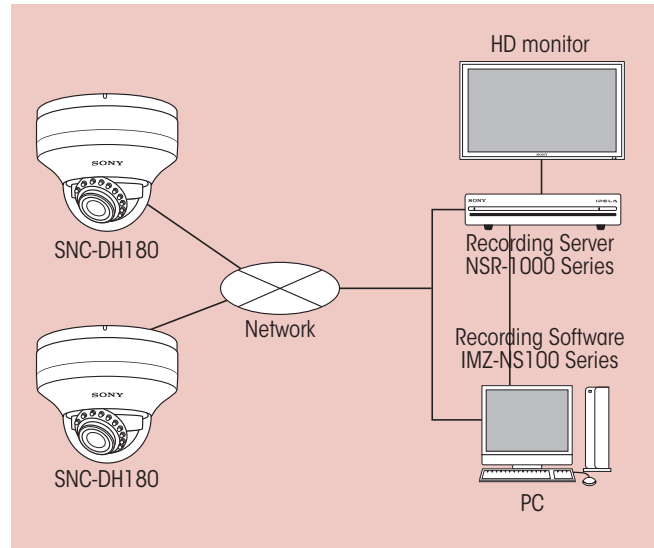(Images 3)

OFF   ON   Actual Images

IPELA™

SPECIFICATIONS

SNC-DH180	
Camera	
Image device	1/3 type progressive scan Exmor CMOS sensor
Minimum illumination	TBD
Number of effective pixels (H x V)	Approx. 1.4 Megapixel (1329 x 1049)
Electronic shutter speed	1s to 1/10000s
Gain control	Auto (3 levels)/Manual
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 8.9 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 Illuminator	Yes (Wave Length: 850nm (Typical), IR LED: 21pcs)
Camera Features	
Day/Night *3	Yes
Wide-D	View-DR (approx. 125dB: Theatrical)
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, 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/MPEG-4/JPEG: 30 fps (1280 x 720)
Audio	
Audio compression	G.711/G.726
Scene Analytics	
Intelligent motion detection	Yes (with built-in Video Motion Filter)
Intelligent object detection	No
Rule filter	Yes
Intelligent audio detection	Yes *4
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 software	Yes
Wireless network	No
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	No
Analog video output	BNC x 1, RCA x 1
Sensor input	x 1
Alarm output	x 2
External microphone input	Mini-jack (Monaural), MIC IN/LINE IN: 2.47VDC plug-in power
Audio line output	Mini-jack (Monaural), Max output level: 1 Vrms
General	
Weight	3 lb 2 oz (1420 g)
Dimensions (ø x H)	6 5/8 x 4 3/4 inches (166 x 119 mm)
Power requirements	PoE *5, AC24V, DC12V
Power consumption	23 W max.
Operating temperature *6	-22°F to 122 °F (-30°C to +50°C) (with built in heater)
Storage temperature	-4°F to 140 °F (-20°C to +60°C)
System Requirements	
Operating system	Windows® XP™, Windows Vista™
Processor	Intel Core2 Duo 2 GHz or higher
Memory	1 GB or more
Web browser	Microsoft Internet Explorer® Ver6.0 or 7.0
Supplied Accessories	
	CD-ROM (User's Guide, SNC Toolbox), Installation manual, Wire rope, Bracket, BNC cable, I/O cable, Audio cable, M4 shoulder screw, M4 screw x 4, Flyee, L-wranch, B&P Warranty Booklet, Template

*1 VE off mode only. *2 View-DR off mode only. *3 Removable IR Cut Filter.
*4 Available with software version 1.1 or later. *5 When used with PoE, SNC-DH180 cannot be used with a heater.
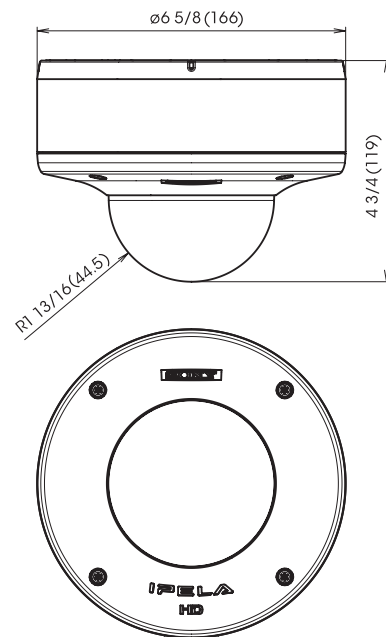*6 Cold start must be greater than -4°F (-20°C) degree.

The SNC-DH180 includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/).

SYSTEM CONFIGURATIONS

HD monitor

SNC-DH180

Network

SNC-DH180

Recording Server NSR-1000 Series

Recording Software IMZ-NS100 Series

PC

DIMENSIONS

Unit: inches (mm)

ø6 5/8 (166)

4 3/4 (119)

R1 13/16 (44.5)

IPELA
HD