SNC-DH180
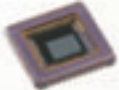## Network HD Mini Dome Camera — V Series

SONY
make.believe

HD Security Camera with IR Illuminators and View-DR Technology

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) illuminators. 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 delivers an extremely wide dynamic range. The SNC-DH180 also features an IR illuminators to deliver quality images even in absolute darkness (0 lx)[*1]. Along with a host of superb features such as DEPA™ Advanced, PoE, a built-in heater, and the Easy Focus/Easy Zoom functions, the SNC-DH180 Mini Dome Network Camera is ideal for the most demanding surveillance applications.
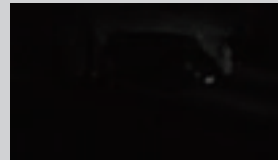
HD

FEATURES

- Excellent picture quality in HD 720p resolution, supporting H.264 at 30 fps HD
- 1.3 Megapixel (1280 x 1024) maximum resolution
- The Exmor CMOS sensor delivers high image quality and high sensitivity for surveillance *Exmor*™
- Clearly captures objects in the dark up to 49 feet (15 m) away with IR illuminators, which allow the camera to operate in 0 lx lighting conditions [*1] (Images 1)
- Wide dynamic range achieved by the innovative View-DR (Visibility enhanced wide Dynamic Range) technology (Images 2) *View-DR*
  - ▶ Full-capture Wide-D technology – all of the electrons converted from the captured light are fully used
  - ▶ High-speed Exmor CMOS sensor
  - ▶ Visibility enhancer technology
- 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 / Easy Zoom functions for easy installation
- DEPA Advanced Intelligent Video and Audio Analytics trigger an alarm, based on user-defined rules
  - ▶ Intelligent Motion Detection
  - ▶ Tamper Alarm
  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-rated
- ONVIF™ software (Open Network Video Interface Forum) ONVIF

Drastic Improvement in Visibility
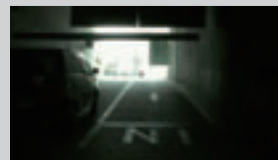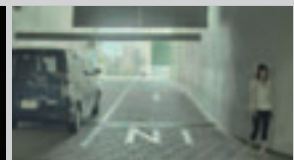
IR Illuminators
(Images 1)

OFF   ON
Actual Images

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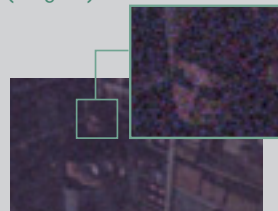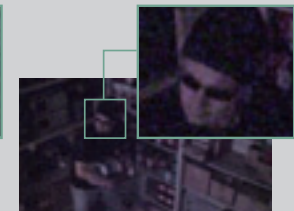(Images 2) *View-DR*

OFF   ON
Actual Images

XDNR™ Technology (eXcellent Dynamic Noise Reduction)
(Images 3)

OFF   ON
Actual Images

[*1] 0 lx requires the use of IR illuminators.
IR rays are not visible to the human eye.
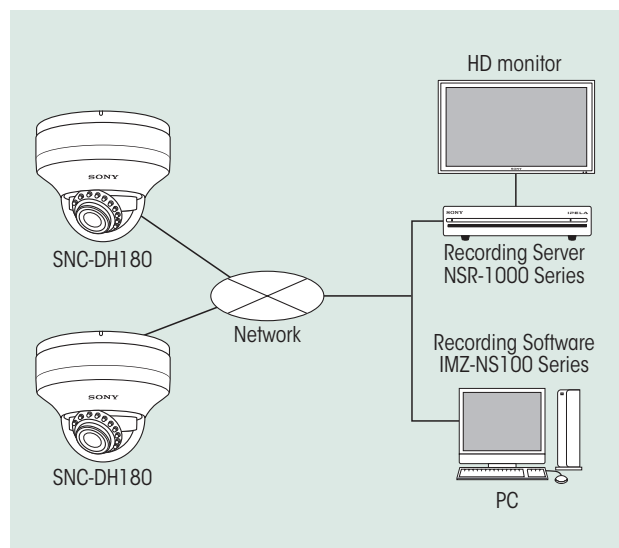When the IR illuminators is activated, the image is in black and white.

IPELA™

SPECIFICATIONS

SNC-DH180	
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 8.9 mm
F-number	F1.2 (wide), F2.1 (tele)
Minimum object 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 *3	Yes
Wide-D	View-DR Technology (130 dB)
Image enhancement	Visibility Enhancer
Noise reduction	XDNR Technology
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: 20fps (1280 x 1024) MPEG-4: 25fps (1280 x 1024) JPEG: 30fps (1280 x 1024) 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 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 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: 2.5VDC plug-in power
Audio line output	Mini-jack (Monaural), Max output level: 1 Vrms
General	
Weight	3 lb 1 oz (1380 g)
Dimensions (ø x H)	6 5/8 x 4 3/4 inches (166 x 119 mm)
Power requirements	PoE *4, AC24V, DC12V
Power consumption	28 W max.
Starting temperature	AC24V/DC12V: -4 to 122°F (-20 to 50 °C) PoE (IEEE802.3af): 32 to 122°F (0 to 50 °C)
Working temperature	AC24V/DC12V: -22 to 122°F (-30 to 50 °C) PoE (IEEE802.3af): 23 to 122°F (-10 to 50 °C)
Storage temperature	-4°F to 140 °F (-20°C to +60°C)
Ingress Protection	IP66
Vandal Resistant	IK10
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® Ver 6.0 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 When used with PoE, SNC-DH180 cannot be used with a heater.
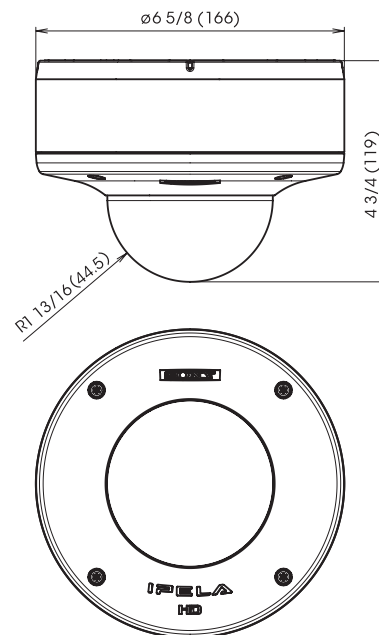
The SNC-DH180 includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/).

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)