SNC-CH280
Network HD Bullet Camera — V series

SONY
make.believe

High-Quality 1080p HD Security Camera with IR Illuminators and View-DR Technology

- Excellent 1080p HD picture quality, supporting H.264 at 30 fps

- 3 Megapixel (1920 x 1440) maximum resolution

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

- The Exmor™ CMOS sensor incorporated to deliver high image quality and low noise

Full HD 1080   3M MEGAPIXEL

KEY FEATURES

- View-DR™ – Sony's innovative Wide Dynamic Range technology – to capture objects clearly and adaptively even under very severe backlit or highlight conditions.

OFF   ON   *View-DR*   Actual Images

- Visibility Enhancer to optimize the brightness and color reproduction of an image dynamically on a pixel-by-pixel basis while continuously adapting to the scene, within the given dynamic range.

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

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

- 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.

- DEPA™ Advanced Intelligent Video and Audio Analytics to trigger an alarm, based on user-defined rules.

DEPA Advanced

- Equipped with a CompactFlash® slot for on-board recording and wireless operation capability with the optional SNCA-CFW5 802.11g card.

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

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

OFF
ON   Actual Images

- Powered by either AC 24V, DC 12V, or PoE (Power over Ethernet) for easy installation.

- Equipped with a built-in heater for continued camera operation in cold weather supported (-22°F to +122°F/ -30°C to +50°C)

- Equipped with a BNC connector and a phono jack to instantly monitor the video while installing the camera.

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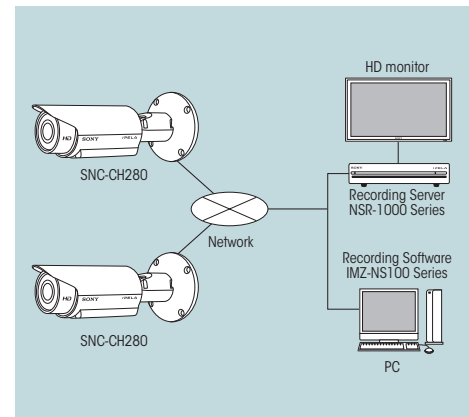
ONVIF

IPELA™

SPECIFICATIONS

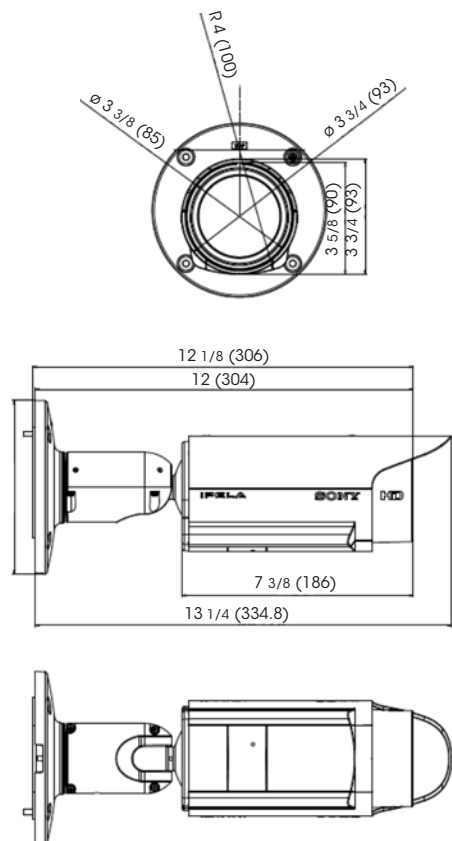| SNC-CH280	
Camera	
Image device	1/2.8 type progressive scan Exmor CMOS sensor
Minimum illumination	Color: 0.40 lx, B/W: 0 lx (IR ON) (F1.2/View-DR OFF/XDNR ON-Middle/VE OFF/AGC High/50 IRE [IP])
Number of effective pixels (H x V)	Approx. 3.27Megapixel (2096×1561)
Electronic shutter speed	1s to 1/10000 s
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	Built-in Vari-focal lens
Zoom ratio	Optical 2.9X (x2 Digital Zoom)
Horizontal viewing angle	88.5 degrees to 32.3 degrees
Focal length	f=3.1mm 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: 27pcs)
Camera Features	
Day/Night *³	Yes
Wide-D	View-DR technology (90dB)
Image enhancement	Image enhancement Visibility Enhancer
Noise reduction	XDNR Technology
Image	
Codec image size (H x V)	1920 x 1440, 1600 x 1200, 1680 x 1056, 1920 x 1080, 1440 x 912, 1376 x 768, 1280 x 960, 1280 x 800, 1280 x 720, 1280 x 1024, 1024 x 768, 1024 x 576, 800 x 480, 768 x 576, 720 x 576, 704 x 576, 720 x 480, 640 x 480, 640x 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	H264: 20fps (1920 x 1440) / 30fps (1920 x 1080) MPEG-4: 15fps (1920 x 1440) / 20fps (1920 x 1080) JPEG: 10fps (1920 x 1440) / 15fps (1920 x 1080)
Audio	
Audio compression	G.711/G.726
Scene Analytics	
Intelligent motion detection	Yes (with built in Post Filter)
Rule filter	Yes
Network	
Protocols	IPv4, IPv6, UDP, TCP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP(client/server), SMTP,DHCP, DNS,NTP, RTP/RTCP, RTSP, SNMP (MIB-2)
ONVIF software	Yes
Wireless network	Yes (with Option *⁴)
Number of clients	10
Authentication	IEEE802.1X
Analog Monitor 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
Analog monitor output	Phono jack 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 12 oz (1690 g)
Dimensions	ø 3 3/4 x 7 3/8 inches (93 x 186 mm) ø 5 3/8 x 13 1/4 inches (140 x 334.8mm) (including arm)
Power requirements	PoE, AC24V, DC12V
Power consumption	33 W Max.
Starting temperature	AC24V/DC12V : -4°F to +122°F (-20°C to +50°C) PoE (IEEE802.3af) : 32°F to 122°F (0°C to 50°C)
Working temperature	AC24V/DC12V : -22°F to +122°F (-30°C to +50°C) *⁵ PoE (IEEE802.3af) : 14°F to 122°F (-10°C to +50°C)
Storage temperature	-4°F to +140°F (-20°C to +60°C)
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, Warranty Booklet, Template

*1 VE off mode only. *2 View-DR off mode only. *3 Removable IR Cut Filter. *4 With optional SNCA-CFW5. *5 With a built-in heater.
*The SNC-CH280 includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/).

SYSTEM CONFIGURATIONS

HD monitor

SNC-CH280

Network

Recording Server
NSR-1000 Series

Recording Software
IMZ-NS100 Series

SNC-CH280

PC

DIMENSIONS

Unit: inches (mm)

R 4 (100)

Ø 3 3/8 (85)   Ø 3 3/4 (93)

3 5/8 (90)   3 3/4 (93)

12 1/8 (306)
12 (304)

7 3/8 (186)
13 1/4 (334.8)