



SNC-DH140



SNC-CH140



**HD**

## Network HD Cameras

SNC-CH140

SNC-DH140

### Vision with Precision for HD Security

Sony introduces two powerful additions to its network HD camera lineup, the SNC-CH140 and SNC-DH140. These dual-stream network HD cameras, supporting H.264, MPEG-4, and JPEG compression formats, deliver 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, these cameras feature state-of-the-art image-enhancement technology, such as View-DR which demonstrates an extremely wide dynamic range.

As a result, these cameras provide not only high-quality HD images, but also HD images with excellent sensitivity and visibility even in challenging lighting environments.

The SNC-CH140 Fixed Network Camera and the SNC-DH140 Mini Dome Network Camera are the ideal choice for the most demanding surveillance monitoring applications.

# FEATURES

## Clear and Bright HD Images

### Excellent HD Picture Quality at 30 fps

The SNC-CH140 and SNC-DH140 utilize H.264, MPEG-4, and JPEG compression formats to bring you clear and detailed HD images. Capable of streaming video in HD at 30 frames per second (fps), these cameras are ideal for wide-area surveillance applications.

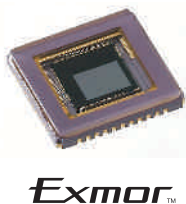


(Actual images taken by one of Sony's SD/HD cameras.)

### The new Exmor CMOS sensor

The Exmor CMOS sensor, newly designed for surveillance, features a high-speed readout capability that captures multiple HD resolution images at a very high speed.

Incorporating this advanced 1/3-type progressive Exmor CMOS sensor, the SNC-CH140 and SNC-DH140 realize high image quality and high sensitivity for surveillance in HD resolution.



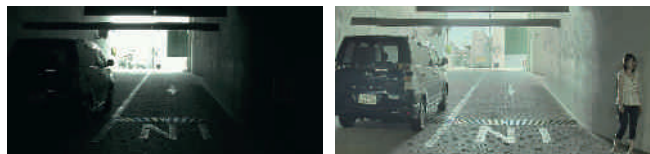
## Drastic Improvement in Visibility

### View-DR

#### (Visibility enhanced wide Dynamic Range)

The SNC-CH140 and SNC-DH140 include View-DR technology, which is a combination of Sony's full-capture Wide-D technology, high-speed Exmor CMOS sensor, and Visibility Enhancer technology. With close to 2X the sensitivity of cameras with conventional Wide-D technology alone, View-DR technology enable these cameras to capture images with very high visibility.

### View-DR



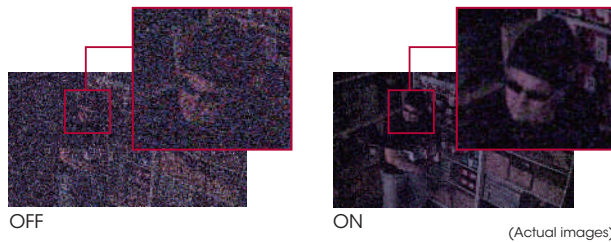
(Actual images)

### Visibility Enhancer\*1

Additionally, the SNC-CH140 and SNC-DH140 include Visibility Enhancer, a tone-correction technology that optimizes the visibility of a scene by increasing brightness in the darker areas, and compressing the brighter areas. The results are sharper, clearer images and a higher level of visibility – all of which are critical for security surveillance.

## XDNR (eXcellent Dynamic Noise Reduction)

Incorporating newly developed XDNR technology, these cameras provide clear images while at the same time minimizing motion blur under low illumination. This technology is ideal for surveillance in low-light conditions, such as night-time monitoring.



(Actual images)

## Intelligence

### DEPA Advanced – Intelligent Video and Audio Analytics

Incorporating DEPA™ Advanced technology, the SNC-CH140 and SNC-DH140 offer intelligent video and audio analytics. This allows users to further refine the criteria for triggering an alarm, making the overall system more efficient.

- **Intelligent Motion Detection**

In using the camera's intelligent motion detection, users can also define up to three rules for alarm activation, such as creating virtual borders, or detection areas in the camera's field of view. Additionally, these cameras feature a beam intrusion detector\*2 that can create a virtual beam - if anybody passes through this beam, an alarm is triggered.

- **Tamper Alarm**

When an attempt is made to tamper with the camera, such as spray-painting the lens, the camera detects this and triggers an alarm. This event can be used to activate the alarm output relays, or even to start the Voice Alert function.

- **Advanced Audio Detection\*2**

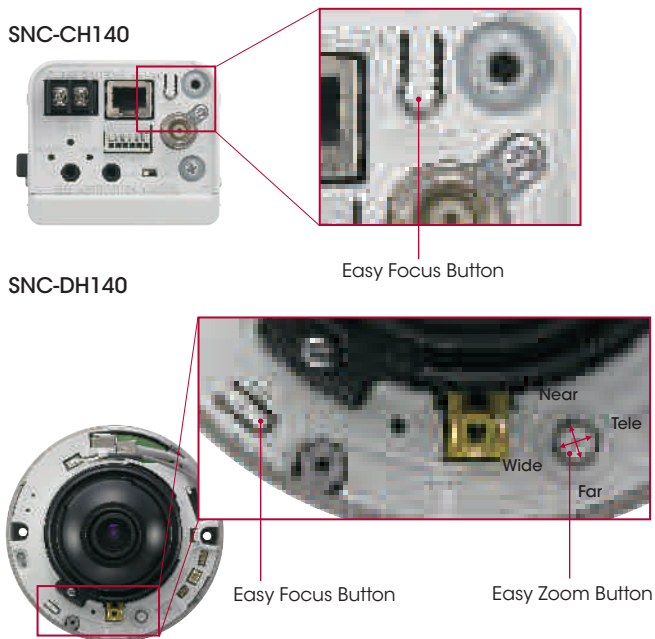
Unlike conventional audio detection, where an alarm is triggered based on a flat, preset audio level, the new cameras periodically ingest the ambient sound level and frequencies, to establish a threshold over the ambient level. Any sounds above this threshold would trigger an alarm.



## Flexible and Easy Installation

### Easy Focus Function/Easy Zoom Function\*3

The SNC-CH140 and SNC-DH140 can be installed quickly and easily by the newly developed Easy Focus function and Easy Zoom function\*3. The Easy Focus function is an automatic focus function activated by a dedicated button on the camera body or the remote control, and the Easy Zoom function\*3 is an automatic focus function to adjust focus relative to the zoom ratio.



### Power-over-Ethernet (PoE) Capability

Supporting Power-over-Ethernet (PoE), the SNC-CH140 and SNC-DH140 can be powered using the same Ethernet cable as the camera uses for data transfer. This greatly reduces the physical infrastructure costs and speed of deployment.

### Local Storage and Wireless Capability\*4

The SNC-CH140 has a CompactFlash® slot. This can be used either with a CompactFlash memory card for local video storage using RTP/RTCP protocol for backup purposes, or the optional SNCA-CFW5 (802.11g) CompactFlash type wireless LAN card which can be used to provide a wireless capability.

## System Flexibility

### Three Codecs – H.264, MPEG-4, and JPEG Support

The SNC-CH140 and SNC-DH140 support three compression formats: JPEG, MPEG-4, and H.264. The industry-standard JPEG compression format is the best choice for high-quality still images. MPEG-4 provides clear moving images efficiently over networks when bandwidth is limited. And H.264 provides twice the efficiency of MPEG-4, which is ideal when bandwidth is even more limited.

## Dual-streaming Capability

With a dual-streaming capability, the SNC-CH140 and SNC-DH140 can simultaneously stream any two formats from MPEG-4, JPEG, and H.264. For example, HD images can be streamed to the recording software, while the user views live VGA sized images at the same time. This flexibility allows users to maximize network and storage resources.

## ONVIF Software

(Open Network Video Interface Forum)



In line with Sony's commitment to open standards, the SNC-CH140 and SNC-DH140 conform to ONVIF™ specifications. ONVIF defines a common protocol for the exchange of information between different network video devices from different manufacturers, to allow greater interoperability in multi-vendor network video systems.

\*1 When the View-DR function is set to On, the Visibility Enhancer function is fixed to On and unchangeable.

\*2 Available with software version 1.1 or later

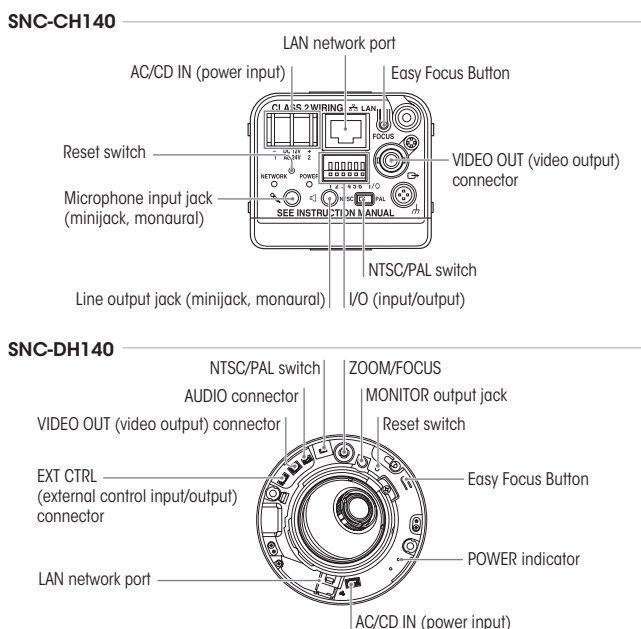
\*3 The Easy Zoom function is available with the SNC-DH140 only.

\*4 Available with the SNC-CH140 only

## OPTIONAL ACCESSORIES



## CONNECTORS



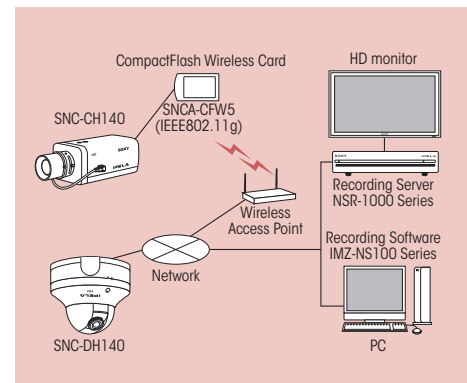
## SPECIFICATIONS

	SNC-CH140	SNC-DH140
<b>Camera</b>		
Image device	1/3 type progressive scan Exmor CMOS Sensor	
Minimum illumination	Day : 0.20 lx, Night : 0.10 lx (F1.2/View-DR OFF/XDNR ON-Middle/VE OFF/AGC High/50 IRE[IP])	
Number of effective pixels (H x V)	Approx. 1.4 Megapixel (1329 x 1049)	
Electronic shutter speed	1 s to 1/10000 s	
Auto gain control	Max gain setting LOW, MID, HIGH	
Exposure control	Auto, EV Compensation*1, Auto Slow Shutter*2	
White balance mode	Auto(ATW, ATW-Pro), Preset, One-push WB, Manual	
Lens type	CS Mount lens	Vari-focal lens
Zoom ratio	Approx. 2.9X	
Horizontal viewing angle	33.9 to 96.5 degrees	31.2 to 85.4 degrees
Focal length	f=2.8 to 8.0mm	f=3.1 to 8.9mm
F-number	F1.2 (wide), F1.9 (tele)	F1.2 (wide), F2.1 (tele)
Easy Focus	Yes	
Easy Zoom	No	Yes
<b>Camera Features</b>		
Day/Night*3	Yes	
Wide-D	Wide D = View-DR** (125 db) approximate	
Image enhancement	Visibility Enhancer	
Noise reduction	XDNR	
<b>Image</b>		
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	
Video compression format	H.264, MPEG-4, JPEG	
Maximum frame rate	H.264/MPEG-4/JPEG: 30 fps (1280 x 720)	
<b>Audio</b>		
Audio compression	G.711/G.726	
<b>Scene analytics</b>		
Intelligent motion detection	Yes (with built-in Video Motion Filter)	
Intelligent object detection	No	
Advanced audio detection	Yes*5	
<b>Network</b>		
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	Yes (with optional*6)	No
Number of clients	10	
Authentication	IEEE802.1X	
<b>Analog video output</b>		
Signal system	NTSC/PAL	
Horizontal resolution	600 TVL	
S/N ratio	more than 50 dB	
<b>Interface</b>		
Ethernet	10BASE-T / 100BASE-TX (RJ-45)	
Serial interface	No	
Card slots	CompactFlash card x1	No
Analog video output	Composite video (1Vp-p)	
Sensor input	x1	
Alarm output	x2	
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	
<b>General</b>		
Weight	Approx. 1 lb 2 oz (600 g)	Approx. 1 lb 10 oz (750 g)
Dimensions (W x H x D) (ø x H)	2 7/8 x 2 1/2 x 7 7/8 inches (72 x 63 x 197 mm)	5 5/8 x 4 3/4 inches (140 x 118 mm)
Power requirements	PoE, AC24V, DC12V	
Power consumption	9.0 W max.	
Operating temperature	-14 to 122 °F (-10 to +50 °C*)	
Storage temperature	-4 to 140 °F (-20 to +60 °C)	
<b>System requirements</b>		
Operating system	Windows® XP, Windows Vista®	
Processor	Intel Core2 Duo 2GHz or higher	
Memory	1GB or more	
Web browser	Microsoft Internet Explorer® Ver6.0, Ver7.0	
<b>Supplied accessories</b>		
	CD-ROM (User's guides, SNC Toolbox), Installation manual, Wire rope, Warranty booklet	CD-ROM (User's guides, SNC Toolbox), Installation manual, Template, Wire rope, Bracket, LAN cable, BNC cable, Power input cable, I/O cable, Audio Cable, Warranty booklet, M4 shoulder screw, M4 screws (2)

\*1 Visibility Enhancer off mode only \*2 View-DR off mode only \*3 Removable IR Cut Filter \*4 View-DR technology is a combination of Sony's full-capture Wide-D technology, the high-speed "Exmor" CMOS sensor, and Visibility Enhancer. \*5 Available with software version 1.1 or later \*6 With optional SNCA-CFW5  
\*7 Cold start temperature must be greater than 0°C.

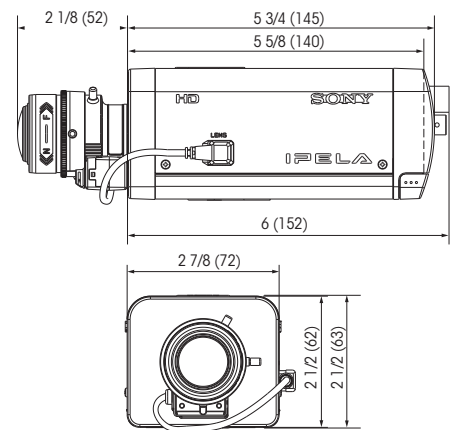
\* The SNC-CH140 and SNC-DH140 include software developed by the OpenSSL Project for use in the OpenSSL Toolkit (<http://www.openssl.org/>).

## SYSTEM CONFIGURATIONS

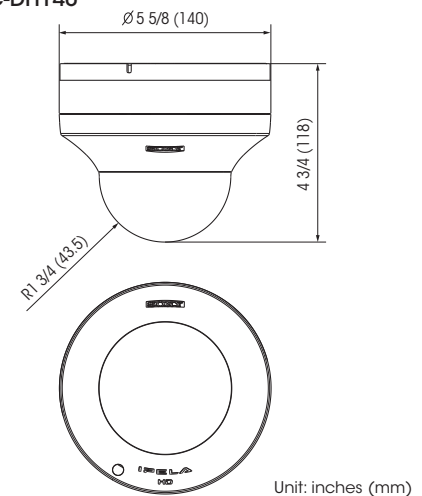


## DIMENSIONS

### SNC-CH140



### SNC-DH140



Unit: inches (mm)

# SONY

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S-IP2053 (MK10647V1)

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