

Full-HD (1920 x 1080) Wide Dynamic Cameras from Sony Vision with Precision – HD Security

Sony is pleased to introduce its first full-HD (1920 x 1080) network HD cameras, the SNC-CH240 and SNC-DH240. These dual-stream network full-HD cameras, supporting H.264, MPEG-4, and JPEG compression formats, deliver excellent picture quality in 1080p HD 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 not only provide high-quality full-HD images but additionally deliver excellent sensitivity and visibility even in challenging lighting environments.

The SNC-CH240 Fixed Network Camera and SNC-DH240 Mini Dome Network Camera are ideal for the most demanding surveillance applications, especially airport and city surveillance.



SNC-DH240



SNC-CH240

HD

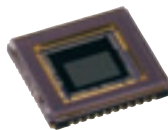
Network HD Cameras

SNC-CH240
SNC-DH240

Preliminary

FEATURES

- Full-HD 1080p resolution for advanced picture quality, supporting H.264 at 30 fps **HD**
- Three codecs (H.264, MPEG-4, JPEG) and dual streaming capability
- The new Exmor CMOS sensor realizes high image quality and low noise for surveillance
Exmor™
- Images with very high visibility with View-DR technology - the combination of Sony's cutting-edge technologies: (Images 1)
 - ▶ 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 **View-DR**
- XDNR (eXcellent Dynamic Noise Reduction) technology for clear images without motion blur under low illumination (Images 2)
- Easy Focus function/Easy Zoom function*1
- DEPA™ Advanced Intelligent Video and Audio Analytics trigger an alarm, based on user-defined rules
 - ▶ Intelligent Motion Detection with virtual borderline function
 - ▶ Tamper Alarm
 - ▶ Advanced Audio Detection
- Power over Ethernet (PoE) capability
- CompactFlash® slot for on-board recording/wireless capability – allows streaming of locally stored data using RTP/RTCP protocols for backup purposes and post-recording reviews, and supports 802.11g wireless capability with optional SNCA-CFW5*2 as well.
- ONVIF™ Software (Open Network Video Interface Forum) **ONVIF**



*1 The Easy Zoom function is available with the SNC-DH240 only.
*2 Available with the SNC-CH240 only.

Drastic Improvement in Visibility

View-DR (Visibility enhanced wide Dynamic Range)
(Images 1)

View-DR

OFF



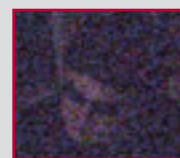
ON



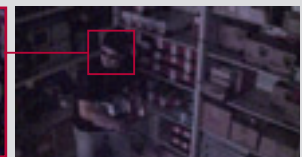
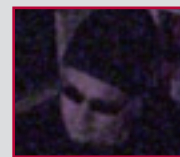
Simulated Images

XDNR (eXcellent Dynamic Noise Reduction)
(Images 2)

OFF



ON



Actual Images

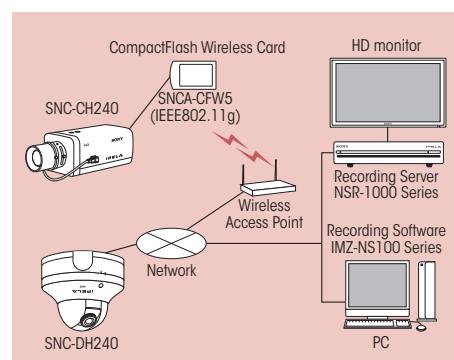
SPECIFICATIONS

	SNC-CH240	SNC-DH240
Camera		
Image device	1/2.8 type progressive scan Exmor CMOS sensor	
Minimum illumination	TBD	
Number of effective pixels (H x V)	Approx. 3.27 Megapixel (2096 x 1561) (Tentative)	
Electronic shutter speed	1s to 1/10000s	
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 Vari-focal lens	Vari-focal lens
Zoom ratio	TBD	
Horizontal viewing angle	101.2 to 47.0 degrees	88.5 to 32.3 degrees
Focal length	f=2.8 to 6.0 mm	f=3.1 to 8.9 mm
F-number	F1.3 (Wide), F1.9 (Tele)	F1.2 (Wide), F2.1 (Tele)
Minimum objects distance	300 mm	
Powered Focus	Yes (Easy Focus)	
Powered Zoom	No	Yes (Easy Zoom)
Camera Features		
Day/Night *3	Yes	
Wide-D	View-DR	
Image enhancement	Visibility Enhancer	
Noise reduction	XDNR	
Image		
Codec image size (H x V)	1920 x 1440, 1600 x 1200, 1680 x 1056, 1920 x 1088 (Tentative), 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, 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	H264: 30fps (1920 x 1080) (Tentative) MPEG-4: 23 fps (1920 x 1080) (Tentative) JPEG: 30fps (1920 x 1080) (Tentative)	
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	
Advanced audio detection	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 conformance	Yes	
Wireless network	Yes (with optional *4)	No
Number of clients	10	
Authentication	IEEE802.1X	
Analog Video Output		
Signal system	NTSC / PAL	
Horizontal resolution	TBD	
S/N ratio	More than 50 dB	
Interface		
Ethernet	10BASE-T / 100BASE-TX (RJ-45)	
Serial interface	No	
Card slots	CompactFlash card x1	No
Analog video output	BNC x 1	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	1 lb 6 oz (630g) (Tentative)	1 lb 10 oz (750g) (Tentative)
Dimensions (ø x H)	TBD	
Power requirements	PoE, AC24V, DC12V	
Power consumption	TBD	
Operating temperature *5	14 to 122 °F (-10 to +50 °C) (Tentative)	
Storage temperature	-4 to 140 °F (-20 to +60 °C)	
System Requirements		
Operating system	Windows XP™, Windows Vista™	
Processor	Intel Core2™ Duo 2GHz or higher	
Memory	1GB or more	
Web browser	Microsoft Internet Explorer® Ver6.0 or 7.0	

*1 VE off mode only. *2 View-DR off mode only. *3 Removable IR Cut Filter. *4 With optional SNCA-CFW5. *5 Cold start must be greater than -20 degree.

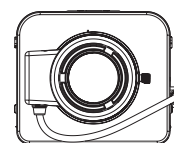
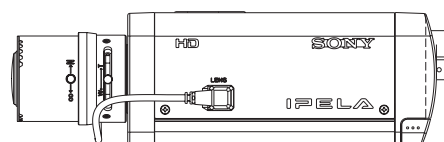
* The SNC-CH240 and SNC-DH240 include software developed by the OpenSSL Project for use in the OpenSSL Toolkit (<http://www.openssl.org/>).

SYSTEM CONFIGURATIONS

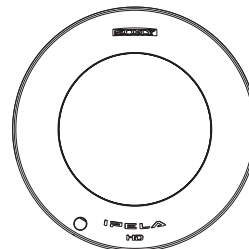
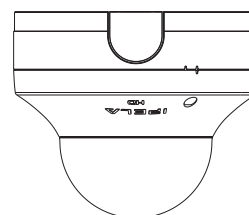


DIAGRAM

SNC-CH240



SNC-DH240



SONY

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