

SNC-CH240

Full-HD fixed network security camera combines pristine HD images with Sony's unique dynamic range enhancements



Better pictures mean more incident detection and better evidence, and with Sony's Exmor™ Full-HD (1920x1080) image sensor the SNC-CH240 captures more detail than ever.

This feature-rich Full HD fixed network security camera comes with Sony's image enhancement expertise. It includes View-DR for a very wide dynamic range in difficult lighting conditions, and XDNR for incredibly powerful noise reduction.

The SNC-CH240 supports Power over Ethernet (PoE) for easy installation with only one cable, and it conforms to the Open Network Video Interface Forum (ONVIF) for compatibility with other network video devices – even from other manufacturers

1-year PrimeSupport is included as standard within the EU, Norway and Switzerland. This gives users access to an expert helpdesk and, in the unlikely event of a failure, will arrange for an advance replacement unit to be delivered within a target time of one working day. An additional 2-years support is also available as an option.

Features

Full HD 1080p Resolution

Exmor CMOS Sensor

View-DR for an enhanced dynamic range

XDNR for powerful noise reduction

DEPA video analytics

Power Over Ethernet (PoE) capability

CF slot for onboard recording/wireless capability (with Optional SNCA-CFW5 card)

ONVIF (Open Network Video Interface Forum) compliance

Benefits

Full HD (1920x1080) resolution

Detailed Full HD progressive images. Progressive acquisition (as opposed to interlace) means that images are more stable to view, contain more information and compress more efficiently - without "interlace artefacts".

Exmor CMOS Sensor

High resolution CMOS sensor with low noise characteristics for improved image acquisition. Derived from Sony's broadcast product range, Exmor is one of the highest quality image sensors available

Stream Squared function

An incredibly useful function that allows simultaneous streaming of two 4:3 aspect ratio videos in user-selectable SD resolutions. You can select the entire image or a portion of the image from the original view and resize to SD resolution. With this feature the SNC-CH240 can replace two SD cameras installed in the same line of view.

Triple Codec Network Operation

Three industry-standard codecs for compatibility with the widest possible range of players. The SNC-CH240 can stream in two different formats simultaneously. For example: one codec at a low bit rate for internet use and another at a higher rate for analysis and archiving.

Enhanced Dynamic Range with Sony's View-DR

With Sony's View-DR (Visibility Enhanced Wide Dynamic Range) innovation, you can achieve a high contrast ratio of 125dB. This ensures realistic tonal detail, and state-of-the-art image enhancement with a wide, dynamic range capability.

Powerful noise reduction with Sony's XDNR

XDNR (Excellent Dynamic Noise Reduction) technology virtually eliminates image blur in low-light conditions, enabling users to clearly capture images that have not been easy to portray in the past. It also overcomes the problems associated with many competitor camera models. What's more, when both XDNR and Visibility Enhancer are turned on, the cameras can achieve four times the sensitivity compared

to when they are off. This technology is ideal for any outdoor surveillance monitoring, such as in a car park at night.

DEPA Advanced video analytics

DEPA Advanced Intelligent Video and Audio Analytics can analyse images to detect whether pre-selected objects have moved, raising an alarm if an event is detected. Users create a set of rules that determine exactly how and when this happens

Power Over Ethernet (PoE) capability

Supporting Power over Ethernet (PoE), the SNC-CH240 can be powered using the same Ethernet cable it uses for data transfer. This feature greatly reduces

the physical infrastructure costs and speed of deployment

CF card slot

Compact Flash card slot for onboard recording or wireless networking (with optional SNCA-CFW5 card)

ONVIF (Open Network Video Interface Forum) compliance

The ONVIF (Open Network Video Interface Forum) defines a common protocol for the exchange of information between network video devices including automatic device discovery and video streaming. Allows interoperability between network video devices.

Technical Specifications

General	
Mass	650g (1lb 7oz)
Dimension (W x H x D)	72 x 63 x 145 mm (2 7/8 x 2 1/2 x 7 7/8 inches)
Power requirements	PoE, AC24V, DC12V
Working Temperature	-10 to +50 °C (14 to 122 °F) (Tentative)
Storage Temperture	-20 to +60 °C (-4 to +140 °F)

Camera	
Image Device	1/2.8 type progressive scan "Exmor" CMOS sensor
Number of effective pixels (H x V)	3 Megapixel, (2096 x 1561) (Tentative)
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	CS mount lens
Zoom ratio	Optical 2.1X (x2 Digital Zoom)
Horizontal viewing angle	101.2 to 47.0 degrees
Focal length	f=2.8 to 6.0 mm
F-number	F1.3 (Wide), F1.9 (Tele)
Minimum objects distance	300 mm
Powered Focus	Yes (Easy Focus)
Powered Zoom	No

Camera Features	
Day/Night *3	Yes
Wide -D	View-DR (84dB: Theoretical)
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 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, 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: 20fps (1920 x 1440) / 30fps (1920 x 1080), MPEG-4: 15fps (1920 x 1440) / 25 fps (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)
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 compliance	Yes
Wireless network	Yes (with option *4)
Number of clients	10

Authentication	IEEE802.1x
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Analog Video Output

Signal system	NTSC/PAL
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
Sensor Input	x1
Alarm output	x2
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
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System requirements

Operating system	Windows XP, Windows Vista, Windows 7
Processor	Intel Core2 Duo 2 GHz or higher
Memory	1 GB or more
Web browser	Microsoft Internet Explorer Ver6.0, 7.0, or 8.0
Notes	*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