SONY
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SNC-CH140

HD network fixed network camera, utilising state-of-the-art image enhancement with View-DR, and XDNR noise reduction.

The SNC-CH140 HD fixed network camera delivers excellent picture quality at HD resolution (1280x720, 30 fps) in 16:9 aspect ratio. This level of clarity combined with state-of-the-art image processing make the CH140 one of the most effective CCTV cameras on the market.. This capability makes it an obvious choice for mission critical CCTV applications including airport/border and traffic surveillance.

Installation is quick and easy, thanks to the newly developed Easy Focus function which automatically adjusts to the native surroundings.

PoE (Power over Ethernet) capability and support for multiple codecs provides ultimate flexibility for system design, integration and installation.

SNC-CH140 also features ONVIF (Open Network Video Interface Forum) compliance for easy interoperability with IP monitoring products from a variety of manufacturers.

This product comes with the full PrimeSupport package. That's fast, hassle-free repairs, a helpline offering expert technical advice, and a free loan unit while yours is repaired. Plus the peace of mind that Sony is looking after your equipment – and your business.

Features

CMOS image sensor for HD picture quality
Sony's HD CMOS image sensor provides excellent picture quality at all resolutions up to 1280x1024 including HD resolution (1280 x 720 pixels) in 16:9 aspect ratio. The full potential for sharp, clear HD images is ensured thanks to XDNR noise reduction,visibility enhancer (VE) and View –DR systems.

View-DR technology for a high contrast ratio
With Sony's View-DR 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.

Visibility Enhancer for improved performance in challenging lighting conditions
Sony's visibility enhancer technology (VE) improves performance in challenging lighting conditions, for example high-contrast environments, such as casinos and highways, that had previously been difficult to monitor. The visibility enhancer's advanced system suppresses extreme whites and boosts dark areas in a scene simultaneously and dynamically, to produce clearer images on the screen.

XDNR technology for clear low-light images
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.

Easy Focus function
The Easy Focus function is an automatic focus function activated by a dedicated button on the camera body/web interface.

Power over Ethernet capability (IEEE802.3af)
Supporting Power over Ethernet (PoE), the SNC-CH140 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.

Triple Codec Network Operation
This multi-codec camera supports three compression formats: JPEG, the best choice of high-quality still images; MPEG-4, the format that provides clear moving images efficiently over limited-bandwidth networks; and H.264, the alternative for severely limited-bandwidth networks, providing twice the efficiency of MPEG-4. The camera can generate multiple streams simultaneously.

ONVIF Compliant

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.

Tamper Alarm

When an attempt is made to tamper with the camera, such as spray-painting the lens, the SNC-CH140 detects this and triggers an alarm. This event can also be used to activate the camera relays, or even to start the Voice Alert function.

Advanced Audio Detection

Unlike conventional audio detection where an alarm is triggered based on a preset audio level, the SNC-CH140 triggers its alarms based on ambient sound conditions as the threshold. The camera stores and updates ambient audio levels and frequencies, and when the threshold level based on this data, is surpassed, an alarm is triggered. (Available with version 1.1 or later software.)

Support for IPv6

The SNC-CH140 supports Internet Protocol Version 6 (IPv6).

Local Storage / Wireless Capability

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

Technical Specifications

Camera	
Image device	1/3-type progressive scan "Exmor" CMOS sensor
Minimum illumination	Color : 0.20 lx, B/W : 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
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 lens
Zoom ratio	Approx. 2.9X
Horizontal viewing angle	33.9 to 96.5 degrees
Focal length	f=2.8 to 8.0 mm
F-number	F1.2 (wide), F1.9 (tele)
Powered Focus	Yes (Easy Focus)
Powered Zoom	No

Camera Features	
Day/Night*3	Yes
Wide −D	View-DR*4 (125 dB: Theoretical
Image enhancement	Visibility Enchancer
Noise reduction	XDNR

Image	
Codec image size (H x V)	1280 x 1024, 1280 x 800, 1280 x 720, 1024 x 768, 1024 x 576, 800 x 480, 768 x 576, 640 x 480, 640x 368, 384 x 288, 320 x 240, 320 x 192
Video compression format	H.264, MPEG-4, JPEG
Maximum frame rate	H264/MPEG-4: 30 fps (1280 x 720)JPEG: TBD (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

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*5)
Number of clients	10
Authentication	IEEE802.1X

Analog video output	
Signal system	NTSC/PAL
Horizontal resolution	600 TVL
S/N ratio	more than 50 dB

Interface

Ethernet	10BASE-T / 100BASE-TX (RJ-45)
Serial interface	No
Card slots	CF card x1
Analog video output	Composite video (1Vp-p)
Sensor input	x 1
Alarm output	x 2
External microphone input	Mini-jack (monaural), MIC IN/LINE IN: 2.5V DC plug-in power
Audio line output	Mini-jack (monaural), Max output level: 1 Vrms

General

Mass	Approx. 600 g (1 lb 2 oz)
Dimensions (W x H x D)	72 x 63 x 197 mm (2 7/8 x 2 1/2 x 7 7/8 inches)
Power requirements	PoE, AC24V, DC12V

Power consumption	9W max
Operating temperature	-10 to +50 °C*6 (-14 to 122 °F)
Storage temperature	-20 to +60 °C (-4 to 140 °F)

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, Ver7.0

Supplied Accessories

	CD-ROM (User's guides, SNC Toolbox), Installation manual, Wire rope, Warranty booklet.