

SNC-CH140

Box-type 720p/30 fps
Camera - V Series



Overview

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.

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

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.

Specifications

Camera

Image Sensor	1/3-type Exmor CMOS
Number of Effective Pixels	Approx. 1.39 Megapixels
Signal System	NTSC color system/PAL color system (switchable)
Sync System	Internal synchronization
Minimum Illumination (50 IRE)	Color: 0.20 lx (F1.2, View-DR OFF, VE OFF, AGC High, XDNR Mid, 50 IRE) B/W: 0.10 lx (F1.2, View-DR OFF, VE OFF, AGC High, XDNR Mid, 50 IRE)
Minimum Illumination (30 IRE)	Color: 0.10 lx (F1.2, View-DR OFF, VE OFF, AGC High, XDNR Mid, 30 IRE) B/W: 0.05 lx (F1.2, View-DR OFF, VE OFF, AGC High, XDNR Mid, 30 IRE)

Dynamic Range	Equivalent to 130 dB by View-DR Technology
S/N Ratio (Gain 0 dB)	More than 50 dB (AGC 0 dB)
Gain	Auto (3 levels)
Shutter Speed	1/1 s to 1/10000 s
Exposure Control	Exposure compensation, AGC, Shutter speed
White Balance	ATW, ATW-PRO, Fluorescent lamp, Mercury lamp, Sodium vapour lamp, Metal halide lamp, White LED, One push WB, Manual
Lens	CS Mount varifocal lens
Powered Zoom	No
Easy Zoom	No
Zoom Ratio	Optical zoom 2.9x Digital zoom 4x Total zoom 11.6x
Powered Focus	Yes
Horizontal Viewing Angle	96.5° to 33.9°
Vertical Viewing Angle	76.2° to 33.9°
Focal Length	f = 2.8 mm to 8.0 mm
F-Number	F1.2 to F1.9

Minimum Object Distance	300 mm
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IR Illuminator	No
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Camera Features

Day/Night	True D/N
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Day/Night linked with Easy Focus	
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Wide-D	View-DR
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Tone Correction	VE (VE)
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Noise Reduction	XDNR
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Image Stabilizer	No
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Vandal Resistant	No
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Ingress Protection	No
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Video

Resolution	1280 x 1024, 1280 x 960, 1280 x 800, 1280 x 720, 1024 x 768, 1024 x 576, 800 x 600, 800 x 480, 768 x 576, 720 x 576, 720 x 480, 704 x 576, 640 x 480, 640 x 368, 384 x 288, 320 x 240, 320 x 192
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Compression Format	H.264, MPEG-4, JPEG
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Maximum Frame	H.264: 30 fps (1280 x 720)
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Rate	MPEG-4: 30 fps (1280 x 720) JPEG: 30 fps (1280 x 720)
Multi Streaming Capability	Dual streaming*1
Number of Clients	10

Intelligent Video/Audio Analytics

Analytics Architecture	DEPA Advanced
Intelligent Motion Detection	Yes

Audio

Compression Format	G.711/G.726
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System Requirements

Operating System	Windows XP (32 bit) Professional Edition Windows Vista (32 bit) Ultimate, Business Edition Windows 7 (32/64 bit) Ultimate, Professional Edition
Processor	Intel Core2 Duo 2 GHz or higher
Memory	1 GB or more
	Microsoft Internet Explorer

Web Browser	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)
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Network

Protocols	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client/server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP (MIB-2)
Number of IP Address/Mac ADDRESS	1
ONVIF Conformance	Profile S
Wireless Network	Yes (with optional SNCA-CFW5)
Authentication	IEEE 802.1X

Interface

Analog Video Output	BNC (x1), 1.0 Vp-p, 75 Ω, unbalance, sync negative 600 TV lines (analog video)
Microphone Input	Mini jack (monaural)
Line Input	Mini jack (monaural)

Line Output	Mini jack (monaural), Maximum output level: 1 Vrms
Network Port	10BASE-T/100BASE-TX (RJ-45)
Alarm Input (Sensor Input)	x1, make contact, break contact
Alarm Output	x2, AC/DC 24 V, 1 A
Card Slots	CF Type (x1)
USB Slots	No

General

Power Requirements	IEEE 802.3af compliant (PoE) Class 0, DC 12 V, AC 24 V
Power Consumption	9.0 W max.
Operating Temperature	-10°C to +50°C +14°F to +122°F
Cold Start Temperature	0 °C to +50°C +32°F to +122°F
Storage Temperature	-20°C to +60°C -4°F to +140°F
Operating Humidity	20% to 80%
Storage Humidity	20% to 95%

72 x 63 x 145 mm (without
lens)
2 7/8 x 2 5/8 x 5 3/4 inches

Dimensions*2	(without lens) 72 x 63 x 197 mm (with lens) 2 7/8 x 2 5/8 x 7 7/8 inches (with lens)
Mass	Approx. 600 g (with lens) Approx. 1 lb 5.2 oz (with lens)
Safety Regulations	JATE Technical standard (LAN) UL2044, IEC60950-1(CB) VCCI (Class A), FCC(Class A), IC (Class A) Emission: EN55022(Class A)+EN50130-4 Immunity: EN55022(Class A)+EN55024 Emission: AS/NZS CISPR22(Class A)
Supplied Accessories	CD-ROM (User's Guide, supplied programs) (1) Installation Manual (1) Wire rope (1) Screw M4 (1) Warranty booklet (1)

Footnotes

*1	Dual streaming (Any combination with JPEG/MPEG- 4/H.264, including multiple streams of the same format)
*2	The values for dimensions are approximate.

Related products



SNCA-CEILING

Mounting coupling for pendant applications



SNCA-POLE30

Mounting pipe for pendant mount applications



SNCA-WMFX10PC

Wall/Ceiling camera bracket



SNCA-WM40

Heavy duty outdoor wall mount for the SNC-RS84P, SNC-RS86P and SNC-RH164 rapid dome cameras



UNI-WMB3

Wall mount bracket for PTZ dome mount security camera housings



UNI-XBS1/T

Silver bracket for SNC-CH110S and SNC-CH210S



UNI-OPL7C3

Outdoor Pressurized dome camera housing



SNCA-HRX550EXT/W

Outdoor wireless dome camera housing



SNCA-HRX550/EXT12V

Robust, IP66 rated dome housing for Sony PTZ cameras

Gallery

