

SNC-CH115

Box-type 720p/30 fps Camera



Overview

The SNC-CH115 is a high definition (720p) fixed network security camera with true Day/Night, Intelligent Motion Detection, DEPA analysis and is ONVIF compliant. It supports dual streaming of H.264, MPEG-4 and JPEG at full frame-rate. (Lenses are not included.)

Sony's Exmor™ CMOS sensor provides excellent pictures and event detection for effective evidence gathering.

Sony's E-Series cameras have outstanding picture quality and a range of features at an affordable price.

Features

HD (720p) resolution

Detailed 720p 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.

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.

Intelligent Motion Detection

The built-in IMD function can trigger a variety of actions, such as the storage and transfer of images or the activation of an external device through its output relays. False alarms caused by noise and repeated motion patterns are minimized thanks to an advanced Sony algorithm. Plus, when used in conjunction with DEPA-enabled recorders or software, a multitude of filter functions are available. These allow you to initiate alarms based on more specific movements, such as passing a virtual borderline.

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-CH115 can replace two SD cameras installed in the same line of view.

DEPA

The SNC-CH115 offers intelligent video analytics, based on the Sony DEPA platform. DEPA is a combined function of the intelligence built in to the camera and rules/filters that determine which images should be recorded or when an alarm should be triggered. Using the network camera Intelligent Motion Detection (IMD) function, 'tagged' objects and their associated metadata, including object position, are sent either to the NSR Series

recorder or the IMZ-RS400 Series software. These products then use the metadata, together with filters, to analyse object movement and to perform a predefined action, such as image recording or alarm triggering. This method of distributed processing minimizes server workload, network bandwidth, and storage requirements.

Power Over Ethernet (PoE) capability

Supporting Power over Ethernet (PoE), the SNC-CH115 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.

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.

Specifications

Camera

Image Sensor	1/3-type Exmor CMOS
Number of Effective Pixels	Approx. 1.43 Megapixels
Signal System	NTSC color system/PAL color system (switchable)
Sync System	Internal synchronization
	Color: 0.50 lx (F1.2, AGC 42 dB, 50

Minimum Illumination (50 IRE)	IRE) B/W: 0.30 lx (F1.2, AGC 42 dB, 50 IRE)
Minimum Illumination (30 IRE)	Color: 0.30 lx (F1.2, AGC 42 dB, 30 IRE) B/W: 0.20 lx (F1.2, AGC 42 dB, 30 IRE)
Dynamic Range	More than 60 dB
Gain	Auto
Shutter Speed	1/1 s to 1/10000 s
Exposure Control	Auto, EV Compensation, Auto Slow Shutter
White Balance	Auto (ATW, ATW-PRO), Preset, One-push WB, Manual
Lens	CS Mount varifocal lens
Powered Zoom	No
Easy Zoom	No
Zoom Ratio	Optical zoom 2.9x
Powered Focus	Yes
Horizontal Viewing Angle	96.5° to 33.9°

Vertical Viewing Angle	76.2° to 33.9°
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Focal Length	f = 2.8 mm to 8.0 mm
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F-Number	F1.2 to F1.9
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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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Wide-D	No
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Tone Correction	No
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Noise Reduction	NR
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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,
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	640 x 368, 384 x 288, 320 x 240, 320 x 192
Compression Format	H.264, MPEG-4, JPEG
Maximum Frame Rate	H.264: 20 fps (1280 x 1024)/30 fps (1280 x 720) MPEG-4: 25 fps (1280 x 1024)/30 fps (1280 x 720) JPEG: 30 fps (1280 x 1024)/30 fps (1280 x 720)
Multi streaming Capability	Dual streaming*1
Number of Clients	5

Intelligent Video/Audio Analytics

Analytics Architecture DEPA

Intelligent Motion Detection No

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
Web Browser	Microsoft Internet Explorer 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)

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	No
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Authentication	IEEE 802.1X
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Interface

Analog Monitor Output for Setup	Phono jack (x1) (1.0 Vp-p, 75 Ω, unbalance, sync negative)
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Network Port	10BASE-T/100BASE-TX (RJ-45)
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Alarm Input (Sensor Input)	x1, make contact, break contact
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Alarm Output	x1, AC/DC 24 V, 1 A
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USB Slots	No
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General

Power Requirements	IEEE 802.3af compliant (PoE) Class 2
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Power Consumption	5.0 W max.
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Operating Temperature	-10°C to +50°C +14°F to +122°F
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Cold Start Temperature	0°C to +50°C +32°F to +122°F
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Storage Temperature	-20°C to +60°C
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	-4°F to +140°F
Operating Humidity	20% to 80%
Storage Humidity	20% to 95%
Dimensions*2	72 x 63 x 145 mm (without lens) 2 7/8 x 2 5/8 x 5 3/4 inches (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. 490 g
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)

Notes

*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.

Gallery

