

SNC-CH135

Box-type 720p/30 fps Camera



Overview

The SNC-CH135 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. (Lenses are not included.)

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-CH135 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-CH135 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-CH135 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-CH135 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-CH135 supports Internet Protocol Version 6 (IPv6).

Local Storage / Wireless Capability

The SNC-CH135 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 | |
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| 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 |
| 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 |

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| 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 | 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 Digital zoom 3x Total zoom 8.7x |
| 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 | |

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| Distance | 300 mm |
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| IR Illuminator | No |
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Camera Features

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| Day/Night | True D/N |
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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

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| 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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| | H.264: 20 fps (1280 x 1024)/30 fps |
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| Maximum Frame Rate | (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) |
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| Multi streaming Capability | Dual streaming*1 |
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| Number of Clients | 10 |
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Intelligent Video/Audio Analytics

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| Analytics Architecture | DEPA Advanced |
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| Intelligent Motion Detection | No |
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Audio

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| Compression Format | G.711/G.726 |
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System Requirements

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| Operating System | Windows XP (32 bit) Professional Edition Windows Vista (32 bit) Ultimate, Business Edition Windows 7 (32/64 bit) Ultimate, Professional Edition |
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| 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

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| 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

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| 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) | x2, make contact, break contact |
| Alarm Output | x1, AC/DC 24 V, 1 A |
| Card Slots | CF Type (x1) |
| USB Slots | No |

General

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| Power Requirements | IEEE 802.3af compliant (PoE) Class 0, DC 12 V, AC 24 V |
| Power Consumption | 9.0 W max. |

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| 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% |
| 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. 540 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) |

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| Supplied Accessories | <p>CD-ROM (User's Guide, supplied programs) (1)</p> <p>Installation Manual (1)</p> <p>Wire rope (1)</p> <p>Screw M4 (1)</p> <p>Warranty booklet (1)</p> |
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Notes

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| *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

