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**SNC-CH120**

E-Series indoor fixed HD (720p) network security camera

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The SNC-CH120 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.

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.

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

### 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-CH120 can replace two SD cameras installed in the same line of view.

### DEPA
The SNC-CH120 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 cameraIntelligent 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-CH120 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.

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**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

## Camera

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| Image device | 1/3 type progressive scan "Exmor" CMOS sensor |
| Minimum illumination | Color: 0.50lx, BW: 0.30lx (F1.2/ AGC 42dB / 50IRE [IP]) |
| Number of effective pixels (H x V) | 1.4 Megapixel (1329 x 1049) |
| Electronic shutter speed | 1s to 1/10000s |
| Gain control | Auto |
| Exposure control | Auto, EV Compensation, Auto Slow Shutter |
| White balance mode | Auto (ATW, ATW-PRO), Preset, One-push WB, Manual |
| Lens type | Vari-focal lens |
| Zoom ratio | Optical 2.9X |
| Horizontal viewing angle | 96.5 to 33.9 degrees |
| Focal length | f=2.8 mm to 8 mm |
| F-number | F1.2 (Wide), F1.9 (Tele) |
| Minimum objects distance | 300 mm |
| Powered Focus | Yes (Easy Focus) |

## Camera Features

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| Day/Night *1 | Yes |
| Noise reduction | Yes |

## Image

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| Codec image size (H x V) | 1280 x 1024, 1280 x 960, 1280 x 800, 1280 x 720, 1024 x 768, 1024 x 576, 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 (H.264, MPEG-4, JPEG) |
| Video compression format | H.264, MPEG-4, JPEG |
| Codec streaming capability | Dual streaming |
| Maximum frame rate | H.264: 20fps (1280 x 1024) / 30 fps (1280 x 720) MPEG-4: 25fps (1280 x 1024) / 30 fps (1280 x 720) JPEG: 30fps (1280 x 1024) / 30 fps (1280 x 720) |

## Scene Analytics

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| Intelligent motion detection | Yes |

## Network

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| Protocols | IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client only), SMTP, DHCP, DNS,NTP, RTP/RTCP, RTSP, SNMP (MIB-2) |
| ONVIF conformance | Yes |
| Number of clients | 5 |
| Authentication | IEEE802.1X |

## Analog Video Output

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| Signal system | NTSC / PAL |

## Interface

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| Ethernet | 10BASE-T / 100BASE-TX (RJ-45) |
| Analog monitor output | Phono jack x 1 (1.0 Vp-p, 75 ohms, unbalanced, sync negative) |
| Sensor input | x 1, make contact, break contact |
| Alarm output | x 1, 24V AC/DC, 1A (mechanical relay outputs electrically isolated from the camera) |

## General

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| Mass | 550 g (1 lb 3 oz) with lens |
| Dimensions | 72 mm × 63 mm × 145 mm (2 7/8 inches × 2 1/2 inches × 5 3/4 inches) not including the projecting parts 72 mm × 63 mm × 197 mm (2 7/8 inches × 2 1/2 inches × 7 7/8 inches) with lens not including the projecting parts |
| Power requirements | PoE (IEEE802.3af compliant) |
| Power consumption | 5.0 W max. |
| Starting temperature | 0°C to 50°C (32°F to 122°F) |
| Working temperature | -10°C to +50°C (14°F to 122°F) |
| Storage temperature | -20°C to +60°C (-4°F to +140°F) |
| Safety regulation | UL2044, FCC 15B Class A, IC Class A, IEC60950-1, EN55022(A)+EN55024+EN50130-4, VCCI Class A, C-Tick Class A |

## System Requirements

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| Operating system | Microsoft Windows XP, Windows Vista(32bit), Windows 7(32bit) |
| 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) |

## Supplied Accessories

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| *1 Removable IR Cut Filter. <br /><br />* The SNC-CH120 includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/). | |

## Notes

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