

High-Quality 720p HD Security Camera

- Excellent 720p HD picture quality, supporting H.264 at 30 fps
- 1.3 Megapixel (1280 x 1024) maximum resolution
- Three codecs (H.264, MPEG-4, JPEG) and a dual streaming capability
- The "Exmor" CMOS sensor incorporated to realize high image quality and low noise



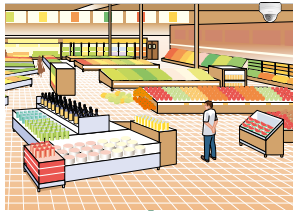
HD 1.3M

Key Features

- Easy Focus function for easy installation.
- Optical Day/Night function to switch to Day or Night mode depending on the light level.
- Recording software (RealShot Manager Lite) is bundled to start recording and monitoring instantly.
- Stream Squared function to send two 4:3 aspect ratio videos in user-selectable resolutions up to SD simultaneously (Low-cost solution to replace two SD cameras located in a line).
- DEPA Intelligent Video Analytics system can be set up with a DEPA-enabled recorder.
- Analog monitor output (phono jack).
- Powered by PoE (Power over Ethernet) for simple installation.
- ONVIF (Open Network Video Interface Forum) conformance that ensures greater interoperability and more flexibility in building multiple-vendor systems.



Example



Dual Streaming



1st Streaming
VGA video of a whole



2nd Streaming
VGA video of a cropped area

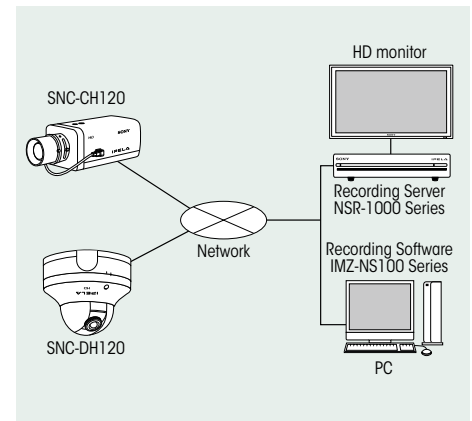
SPECIFICATIONS

SNC-DH120	
Camera	
Image device	1/3 type progressive scan "Exmor" CMOS sensor
Minimum illumination	Color: 0.50lx, BW: 0.30lx (F1.2/AGC 42dB / 50IRE (IP1))
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	85.4 to 31.2 degrees
Focal length	f=3.1 mm to 8.9 mm
F-number	F1.2 (Wide), F2.1 (Tele)
Minimum objects distance	300 mm
Powered focus	Yes (Easy Focus)
Powered zoom	Yes (Easy Zoom)
Camera Features	
Day/Night *1	Yes
Noise reduction	Yes
Image	
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	
Intelligent motion detection	Yes
Network	
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	
Signal system	NTSC / PAL
Interface	
Ethernet	10BASE-T / 100BASE-TX (RJ-45)
Analog monitor output	Phono jack x 1 (1.0 Vp-p, 75 ohms, unbalanced, sync negative)
General	
Mass	715 g (1 lb 9 oz), not including the cables and bracket
Dimensions	ø140 mm x 118 mm (5 5/8 inches x 4 3/4 inches)
Power requirements	PoE (IEEE802.3af compliant)
Power consumption	6.0 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)
Safely 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	
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	
CD-ROM (User's Guides, and supplied programs) (1), Bracket (1), Template (1), Wire rope (1), Camera unit mounting screws (2), Shoulder screw M4 (1), LAN cable (1), Installation Manual (1)	

*1 Removable IR Cut Filter.

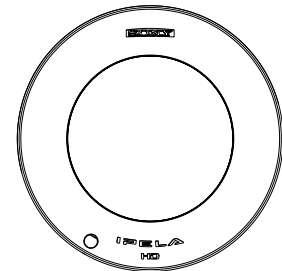
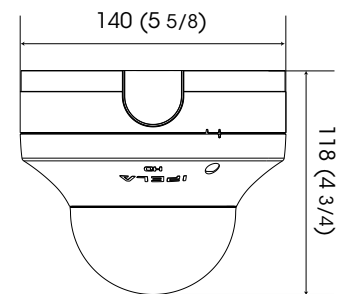
* The SNC-DH120 includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (<http://www.openssl.org>).

SYSTEM CONFIGURATION



DIMENSIONS

Unit: mm (inches)



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Vandal-Resistant 720p HD Security Camera

- Excellent 720p HD picture quality, supporting H.264 at 30 fps
- 1.3 Megapixel (1280 x 1024) maximum resolution
- Three codecs (H.264, MPEG-4, JPEG) and a dual streaming capability
- The "Exmor" CMOS sensor incorporated to realize high image quality and low noise



HD 1.3M

Key Features

- IK10-rated vandal-resistant feature to protect the camera from destructive behaviors.
- Easy Focus/Easy Zoom functions for easy installation.
- Optical Day/Night function to switch to Day or Night mode depending on the light level.
- Recording software (RealShot Manager Lite) is bundled to start recording and monitoring instantly.
- Stream Squared function to send two 4:3 aspect ratio videos in user-selectable resolutions up to SD simultaneously (Low-cost solution to replace two SD cameras located in a line).

- DEPA Intelligent Video Analytics system can be set up with a DEPA-enabled recorder.



- Analog monitor output (phono jack).
- Powered by PoE (Power over Ethernet) for simple installation.
- ONVIF (Open Network Video Interface Forum) conformance that ensures greater interoperability and more flexibility in building multiple-vendor systems.



Example



Dual Streaming



1st Streaming
VGA video of a whole



2nd Streaming
VGA video of a cropped area

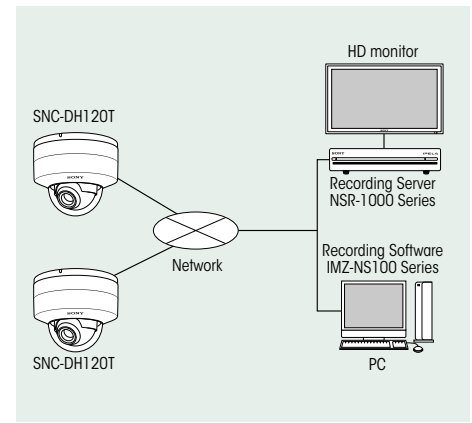
SPECIFICATIONS

SNC-DH120T	
Camera	
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	85.4 to 31.2 degrees
Focal length	f=3.1 mm to 8.9 mm
F-number	F1.2 (Wide), F2.1 (Tele)
Minimum objects distance	300 mm
Powered focus	Yes (Easy Focus)
Powered zoom	Yes (Easy Zoom)
Camera Features	
Day/Night*1	Yes
Noise reduction	Yes
Image	
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	
Intelligent motion detection	Yes
Network	
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	
Signal system	NTSC / PAL
Interface	
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	
Mass	945 g (2 lb 1 oz), not including the cables and bracket
Dimensions	ø140 mm x 119 mm (5 5/8 inches x 4 3/4 inches)
Power requirements	PoE (IEEE802.3af compliant)
Power consumption	6.0 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)
Vandal Resistant	IK10
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	
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	
CD-ROM (User's Guides, and supplied programs) (1), Bracket (1), Template (1), Wire rope (1), Camera unit mounting screws (2), Shoulder screw M4 (1), Wrench (1), I/O cable (1), LAN cable (1), Installation Manual (1)	

*1 Removable IR Cut Filter.

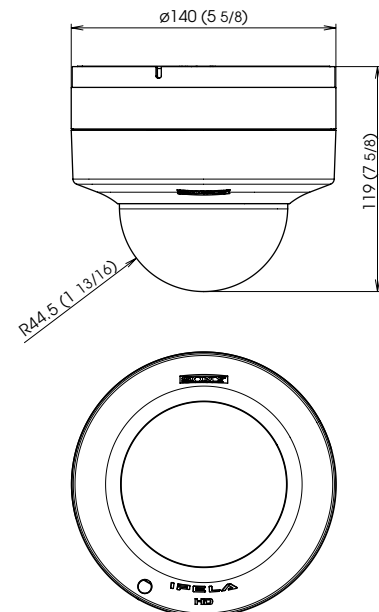
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SYSTEM CONFIGURATION



DIMENSIONS

Unit: mm (inches)



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