

Designed
for security.

Sony Professional
Video Security
Product Catalogue.

VERSION 5



www.use-ip.co.uk

01304 827609

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Time to GO Hybrid

Our new Go Hybrid technology integrates analogue and IP, HD and standard definition products and provides a host of benefits:

- **Go Migrate**
Migrate from analogue to IP with hybrid recording solutions.
- **Go Advance**
Advance your capabilities. Forward thinkers use the number one software choice.
- **Go Capture**
You can capture everything with Sony Professional surveillance cameras.
- **Go Convert**
Convert your video security network with intelligent encoder solutions.



The future of video security is here.

Sony Professional has long been recognised as one of the world's leading video security providers in both analogue and IP solutions. Today, we bring both together, with our leading HYBRID technology.

As the video security world moves from analogue to superior IP, more and more end-users are looking for a solution to help them migrate. Up to 70% of the current market still uses analogue cameras, but the undeniable advantages of higher resolution, greater intelligence and flexibility through ease of installation is a major pull. If it weren't for legacy costs invested in their analogue equipment, many would make the switch tomorrow, enjoying all the inherent IP advantages of reduced overheads, fewer false alarms, more efficient monitoring and clearer imagery.

Sony Professional's hybrid video security solutions allow your clients to make that migration to IP without throwing away analogue systems. And it works generically, providing seamless integration of old and new across Sony Professional's entire range and other manufacturers' products.

Innovation you can rely on

Sony Professional products and solutions are developed on our unique Distributed Enhanced Processing Architecture (DEPA™) platform, harnessing technological intelligence to overcome practical challenges.

Each product in our range – recorders, cameras, software, encoders and monitors – bring technological benefits designed to provide effective, reliable and intuitive video security.

In addition, Sony Professional IP cameras utilise our unique IPELA concept: using the power of IP to deliver enhanced reality, intelligence and usability. These values mean that each Sony Professional video security camera is designed to use the advantages of IP to overcome challenging conditions and deliver spectacular results, 24/7.

A vision we can share

With technology creating outstanding benefits in security operations, our vision for an integrated analogue/IP solution provides a clear strategy for your clients. Based on future-proofed products and innovative solutions, Sony Professional offers a simple entry into the world of IP and a route forward as security demands change. From banks, transportation, education and government/public venues to industrial and corporate, retail and tourism, Sony Professional has a solution that will enhance your clients' security – right now.



View-DR.

View-DR technology from Sony offers an extremely wide dynamic range.

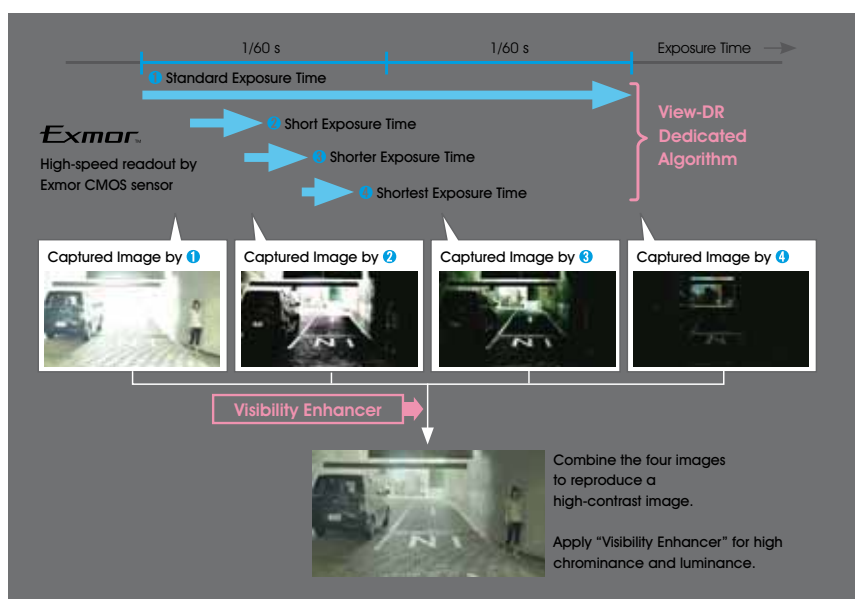
View-DR

Brilliant clarity even with strong backlighting

View-DR is one of Sony's strongest and most powerful features. Combining the power of our new Exmor CMOS sensor with Visibility Enhancer, we bring you the industry's best-in-class wide dynamic range at 130db.

Real time, within the camera, we can take up to 120 pictures per second. Four of these pictures, each taken with a different exposure time, are then combined using a complex algorithm. Visibility Enhancer is then applied to enhance the colour tones and brightness further.

Using this technology will not introduce motion blur and does not limit the camera's frame rates or resolution. You will still be able to encode HD video at full frame rate and can even dual stream too.



One image is taken using a standard exposure time and either one or three images are taken using very short exposure times, depending on the camera type.
(This illustration shows one standard exposure time and three very short exposure times.)



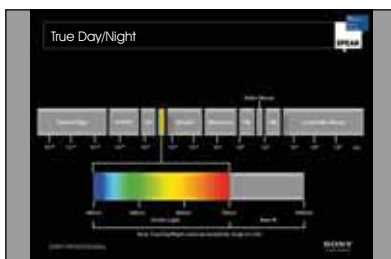
IR Illuminator.

Built-in Infrared (IR) Illuminator from Sony clearly captures objects in the dark up to 15m (49 feet) away with IR Illuminators, which allow the camera to operate in 0 lux lighting conditions.



Low visibility in dark scenes is one of the biggest challenges of HD/Megapixel camera for the industry. Because the visibility performance of an HD/Megapixel camera in dark scenes is worse than that of modern analogue camera, Sony has overcome or even outperformed this limitation by introducing cameras with embedded IR illuminators.

With embedded IR illuminator, you can enjoy clear visibility even under 0 lux, complete darkness. IR Illuminator has been designed to work seamlessly along side these technologies, True Day/Night, XDNR, Visibility Enhancer and View-DR and is able to capture clear pictures up to a distance of 15m.



The human eye can see between 400nm and 700nm, the Sony IR cameras are sensitive between 400nm and 1000nm.





H.264 – the latest industry standard... as standard.

Sony Professional has adopted H.264 – the latest compression standard – in all of its latest network cameras, providing enhanced images with reduced bandwidth.

Better quality, reduced bandwidth

H.264 (MPEG-4 Part 10) was developed to provide high-quality video at a much lower bit rate than standard MPEG-4 or JPEG. As a result, H.264 compression represents a significant benefit to network security camera operations, offering enhanced images with reduced bandwidth.

Less bandwidth

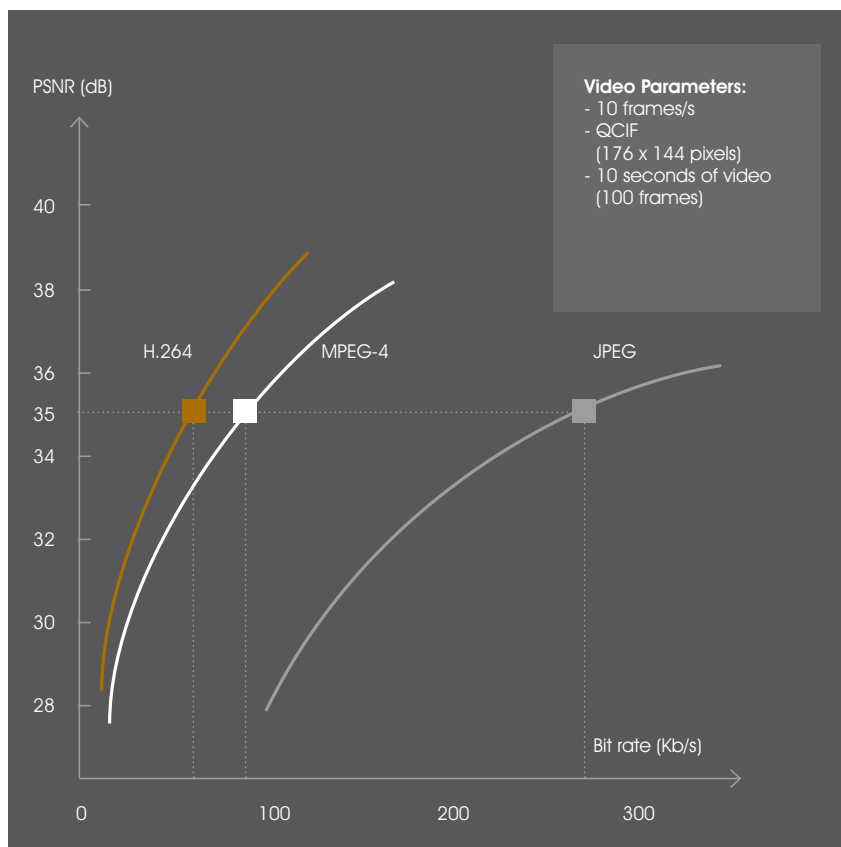
For network security users, H.264 offers all sorts of practical benefits. Using network cameras designed to work with H.264, your clients will need less bandwidth. MPEG-4 requires approximately one-third of the bandwidth used by JPEG; H.264 requires just one-fifth. That's a 40% saving between standard MPEG-4 and H.264.

Reduced storage

With better compression, stored files take up much less room on servers, potentially saving significant sums in network storage requirements.

Improved quality

The data capture elements of each frame in H.264 focus on the movement areas, which has the benefit of creating far more accurate images with more detail. In security applications, this can make a real difference to the identification of facial features, for example, or a vehicle registration plate.



H.264 requires less bandwidth, while delivering better picture quality.

IMD Intelligent Motion Detection – driving actions directly from the camera.

Intelligent Motion Detection (IMD) enables your clients to set up automatic actions based on specific movement parameters.

Automatic prevention and storage capabilities

The built-in IMD function can trigger a variety of actions for prevention, monitoring and apprehending. For example, a particular motion pattern could trigger the activation of lights, alarms or other local devices through its output relays. Alternatively, it could prompt the storage and transfer of images for later analysis. False alarms caused by noise and repeated motion patterns are minimised thanks to an advanced Sony algorithm.

Enhanced performance with DEPA

When used in conjunction with Sony Professional's DEPA™-enabled recorders or software, a multitude of filter functions are available. These allow your clients to initiate alarms based on more specific movements, such as passing a virtual borderline.





IP66 – Vandal Resistant cameras for tough applications.

Many of our models feature Vandal Resistant versions specifically designed for outdoor use.

Meeting IP66 standard for dust and water ingress

Our outdoor cameras are designed to cope with tough conditions. Many of our newest models comply with IP66 standards for protection against water and dust, enabling your clients to enjoy reliable security, regardless of weather conditions or installations in dusty alleys, streets or loading bays.

Vandal Resistant too

Our outdoor cameras are built to the highest standards. Vandal Resistant cameras are housed in aluminium die-cast enclosures. Robust mini-dome cameras feature impact-resistant polycarbonate domes.



Analogue Video Output – for fast installation and set-up.

While Sony Professional IP Cameras bring many advantages to users, some installers prefer analogue set-up. That's why we've retained analogue video output options on all our cameras.

Set up options to suit you

When it comes to setting up viewing angles and focus adjustment, we know that many installers prefer to use their tried and tested analogue monitors.

With Sony Professional, even with the latest IP cameras, we've retained the Analogue Video Output option. You can choose to install using PC-driven software or analogue technology – whichever suits you and the specific application.



HD for your security cameras.

The security market continues to demand higher quality video images, in response to these demands Sony has introduced a range of High Definition (HD) CCTV solutions. Sony HD CCTV solutions represent the next generation in video surveillance technology.



From a surveillance solutions perspective, the transition to HD CCTV provides significant benefits. HD CCTV technology delivers real time capture and delivery of highly detailed images over a wide field of view, highly accurate object detection, recognition, recording and display allow for forensic levels of image analysis not found in existing technology.

Sony HD CCTV solutions combine the benefits of digital technology with the ease of use of analogue to provide the optimum in video security systems performance.

HD CCTV is based upon technology designed for use in high quality broadcast television applications. Video is captured using specialist High Definition CMOS sensors, the sensors contain a pixel array far greater than that found in standard definition CCTV sensors, this results in vastly superior image quality and a greatly enhanced field of view.

Additionally the CMOS sensors utilise a progressive scan system which eliminates the image flicker and blurring associated with interlace scanning systems normally found in standard definition CCTV technology. The resulting images can be transmitted via a suitable network in

a variety of data formats. For maximum flexibility and optimum performance Sony HD CCTV solutions provides H.264, MPEG-4 and JPEG video compression formats.

Sony HD CCTV solutions deliver additional enhancements to image quality by utilising Sony's unique eXcellent Dynamic Noise Reduction (XDNR) and Visibility Enhancer (VE) technology.

XDNR provides clear images by drastically reducing the image noise and motion blur encountered under low light illumination. VE optimises scene visibility by improving wide dynamic ranges under conditions of high contrast illumination.

The superior image quality provided by Sony HD CCTV solutions delivers significant advantages when coupled with the powerful video analytics capability of Sony's Advanced Distributed Enhanced Processing Architecture (DEPA). DEPA technology offers advanced, intelligent alarm functionality whilst distributing and sharing image processing across the network. This powerful combination results in a reduced operator workload through vastly improved alarm handling, superior use of network resources and a security solution that's more flexible, scalable and economical.

Sony is the industry leader in the provision of HD CCTV technology, our portfolio provides for a full range of powerful HD CCTV solutions.

Camera's, SNT Encoder, NSR recording and RSM monitoring software solutions along with a comprehensive range of accessories combine to provide the complete HD CCTV systems solution package.

In addition, total flexibility through our Hybrid approach to seamless integration of new and existing video technology and maximum freedom of choice via our participation in the development of a global open standard for network video products via our Open Network Video Interface Forum (ONVIF) membership ensures that Sony HD solutions are the HD CCTV products of choice.



eXcellent Dynamic Noise Reduction (XDNR).

XDNR delivers superior noise and ghost free images under low light conditions.

The ability of a camera to deliver noise and ghost free images under low light conditions is fast becoming an essential requirement for IP CCTV imaging solutions.

The delivery of high quality images under low light conditions presents numerous technical challenges. Increased image noise levels resulting from signal amplification and image ghosting caused by slow shutter speeds are commonly encountered issues when using existing CCTV technology within a low light environment.

Recognising the importance of noise and ghost free images in low light, SONY has developed its unique eXcellent Dynamic Noise Reduction (XDNR) technology specifically for the IP CCTV environment.

XDNR utilises advanced 2DNR and 3DNR signal processing methods in order to remove random and fixed noise and image ghosting, eliminating the motion blur normally associated with the capture of moving images in low light. Delivering superior image quality in low light, SONY XDNR offers the optimum in noise reduction performance for IP CCTV solutions.

Sony HD SNC-RH PTZ cameras and SNT-EX/EP encoder solutions offer XDNR as a standard feature.

Using SNC-RH PTZ cameras combines the quality of high definition video with the superior noise and ghost free images offered by Sony's unique XDNR technology. By migrating to the Sony range of SNT-EX/EP encoders, XDNR performance can be added to any existing cameras and offers the perfect hybrid solution.

XDNR technology from Sony offers the optimum in low light imaging performance. Available from a range of products the technology is ideal for new or existing installations for superior image capture in low light conditions.





Distributed Enhanced Processing Architecture (DEPA) Advanced.

Building upon the success of DEPA, DEPA Advanced is an enhanced technology that offers high quality image analysis and detection.



Video surveillance has historically been dependent upon human intervention and control, the system operator often providing the interface between alarm activations and required actions. The inability of the operator to monitor and process multiple alarm events is often cited as the weak point in traditional surveillance systems.

The more recent introduction of intelligent video and alarm analysis has provided a reduction in operator workflow by the addition of pre-configured alarms, linked to pre-programmed actions. As a result of its processor intensive requirements video analysis can however be cost prohibitive for many systems, especially in the analogue environment.

Introduced in 2006 Sony's unique Distributed Enhanced Processing Architecture (DEPA) addresses this issue with an innovative design approach. SONY DEPA is an embedded technology providing pre-processing of image data within its camera technology and post of processing of image data within its recording and monitoring solutions. Alarm and image meta data generated by the camera is transmitted on demand to the recording solution where appropriate alarm actions may be initiated.

This distributed architecture allows for intelligent use of network bandwidth and reduces the bottlenecks associated with existing video analysis systems.

Operating a continuous product development policy SONY introduces DEPA Advanced technology. Building upon existing success, DEPA Advanced is an enhanced DEPA technology and now offers the highest quality image analysis and detection. SONY's embedded DEPA Advanced technology delivers unrivalled analytical performance within a range of imaging, recording and monitoring products.

Utilising SONY's unique Intelligent Motion Detection (IMD) to determine real or environmental movement and Intelligent Object Detection (IOD) to monitor the image for violation of a predetermined rule, DEPA Advanced provides highly accurate image meta data to the recording and monitoring solution for alarm activation and processing. A comprehensive range of enhanced predetermined alarm filters include, tamper alarm, virtual fence, trip wire, missing object, people counting and anti loiter options, audio analysis completes the range of advanced features on offer with DEPA advanced technology.

SONY offers a comprehensive range of embedded DEPA Advanced products from the Sony HD SNC-RH PTZ cameras and SNT-EX/EP encoders to NSR1000 recorders and RSM Advanced monitoring software solutions. A comprehensive range of accessories combine to provide the complete DEPA Advanced end to end solution.

Minimising false alarms whilst maximising operator workflow and bandwidth usage, SONY DEPA Advanced offers the optimum in cost effective, flexible and scalable video analysis solutions.

VE Visibility Enhancer (VE).

VE technology from Sony offers the optimum in wide dynamic range performance.

The ability of a camera to deliver optimised images under extreme lighting conditions is known as its wide dynamic range capability. Wide dynamic range is an essential feature when considering image capture under demanding lighting conditions.

Video surveillance technology has traditionally failed to deliver high quality images under the demanding conditions of high contrast scene illumination. Delivering wide dynamic range by resolving bright and dark areas of the image challenges traditional image processing technology.

Existing technology may be optimised for either bright or dark areas of the scene, but not simultaneously. The resulting effect is the reduced visibility of target objects.

In response to this problem Sony has developed its unique Visibility Enhancer (VE) technology. During image processing VE captures and dynamically monitors signal levels, reducing the extreme levels of brightness within the scene and increases levels within the darker areas. This simultaneous

processing and adjustment of both light and dark areas of the scene delivers improved wide dynamic range performance with enhanced scene visibility and superior image quality.

Sony HD SNC-RH PTZ cameras and SNT-EX/EP encoder solutions offer VE as a standard feature. Using SNC-RH PTZ cameras combines the quality of high definition video with the wide dynamic range capability offered by Sony's unique VE technology. By migrating to the Sony range of SNT-EX/EP encoders, VE performance can be added to any existing cameras and offers the perfect hybrid solution.

VE technology from Sony offers the optimum in wide dynamic range performance. Available from a range of products the technology is ideal for new or existing installations for superior image capture in all lighting conditions.





Open Network Video Interface Forum (ONVIF).

In recognising cross-manufacturing compatibility as the key to widespread adoption of network video solutions, Sony along with a number of leading manufacturers have pioneered the establishment of ONVIF (Open Network Video Interface Forum).



The global standards for analogue video are long established and deliver full interconnectivity and interoperability between manufacturer's products. IP cameras and network video solutions do not however currently benefit from a global interoperability standard. As a result the exciting potential for the migration from traditional analogue systems to IP network video solutions is restricted.

The proliferation of IP network video solutions presents a unique set of challenges for both end users and system integrators alike. At a systems integration level the wide range of product on offer can often be limited in its application by the differing standards for image compression and network video transmission found from manufacturer to manufacturer.

This lack of a unified standard defines an obvious limiting factor in the global deployment of fully integrated network video solutions. As a result we restrict customer choice and are unable to fully realise the clear benefits on offer from the wide spread use of this technology.

In recognising cross manufacturing compatibility as the key to wide spread adoption of network video solutions, SONY along with a number of leading manufacturers have pioneered the establishment of ONVIF (Open Network Video Interface Forum). Established in 2008, ONVIF is a worldwide industry forum encompassing manufacturers, developers, consultants, systems integrators, and end users and is open to any group interested in furthering the goals of the organisation.

ONVIF is committed to promoting the adoption of network video solutions within the global security market. Focusing on system interoperability, the development of a worldwide open standard is the forums primary mission.

SONY through its commitment to adoption of the open standard introduces simplicity and ease of use to the integration of solutions delivered by multiple manufacturers. The SONY range of network video solutions offers compatibility with a wide range of manufacturing platforms making it even easier for end users, integrators,

consultants and manufacturers to integrate with SONY products.

Using ONVIF-enabled SONY products unlocks freedom of customer choice and delivers the exciting opportunities available from integrating SONY's truly flexible and scalable network video solutions.

SNC-CH110

Compact and Affordable HD Security Camera. Excellent 720p HD picture quality, supporting H.264 at 30 fps. 1.3 Megapixel (1280 x 960) maximum resolution. Three codecs (H.264, MPEG-4, JPEG) and a dual streaming capability. 1/3.8 type progressive scan CMOS sensor incorporated to realize high image quality.



Key Features and Benefits

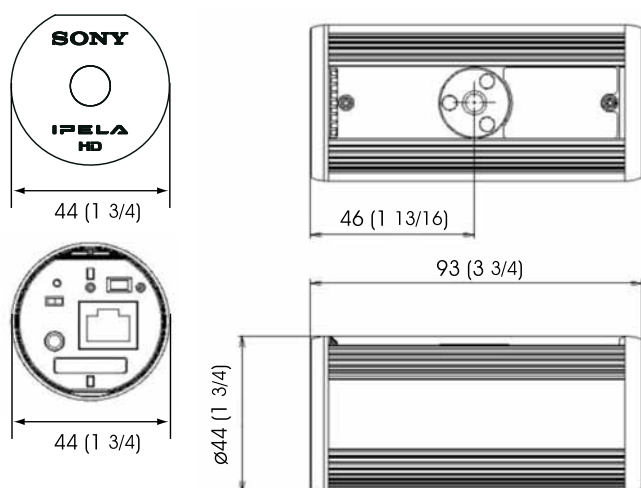
Innovative Design. Compact, slim and two body colours (Silver and Black); suitable for many applications where the bulky camera would be avoided

"Stream Squared" function. 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 field of view and resize to SD resolution or lower for each stream

Standard Features and Benefits

- **Intelligent Motion Detection** that supports DEPA
- **Analogue monitor output (AV mini jack)**
- **Powered by PoE (Power over Ethernet)** for simple installation
- **Recording software (RealShot Manager Lite)** is bundled to start recording and monitoring instantly
- **ONVIF (Open Network Video Interface Forum)** Version 1.01 conformance that ensures greater interoperability and more flexibility in building multiple-vendor systems

Dimensions



Specifications

Camera	
Image device	1/3.8 type CMOS sensor
Minimum illumination	5.0 lx / AGC 30dB / 50IRE [IP]
Number of effective pixels (HxV)	1.3Megapixel (1296×985)
Electronic shutter	1/2 s to 1/10000 s
Auto gain control (AGC)	Auto
Exposure control	Auto, EV Compensation, Auto Slow Shutter
White balance modes	Auto(ATW, ATW-PRO), Preset, One-push WB, Manual
Lens type	Fixed
Horizontal viewing angle	80.7 degrees
Focal length	f=2.34
F-number	F2.8
Minimum object distance	500 mm
Camera Features	
Day/Night	Yes (electrical D/N)
Noise reduction	Yes
Image	
Codec image size (H x V)	1280x960, 1280x720, 1024x768, 1024x576, 768x576, 720x576, 704x576, 800x480, 720x480, 640x480, 640x368, 384x288, 352x288, 320x240, 320x192, 176x144
Video compression format	H.264, MPEG-4, JPEG
Codec streaming capability	Dual streaming
Maximum frame rate	JPEG / MPEG-4 / H.264: 30fps (1280×960 / 1280x720)
Scene Analytics	
Intelligent motion detection	Yes
Network	
Protocols	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP (MIB-2)
ONVIF conformance	Yes (Version 1.01)
Number of clients	5
Authentication	IEEE802.1X
Interface	
Ethernet	10BASE-T / 100BASE-TX (RJ-45)
Analogue monitor output	AV Mini Jack
Sensor input	x 1
Analogue video output	
Signal system	NTSC / PAL
General	
Weight	100 g (3.5 oz)
Dimensions (ø x H)	ø 44 x 93 mm (ø 1 3/4 x 3 3/4 inches)
Power requirements	PoE
Power consumption	2.4W
Operating temperature	0 °C to 50 °C (32°F to 122°F)
Storage temperature	-20 °C to +60 °C (-4°F to +140°F)
Safety regulation	UL2044, FCC 15B Class B, IC Class B, IEC60950-1, EN55022(B)+EN55024+EN50130-4, VCCI Class B, C-Tick Class B
System Requirements	
Operating system	WindowsXP, WindowsVista (32bit), Windows7 (32bit)
Processor	Intel Core2 Duo 2 GHz or higher
Memory	1 GB or more
Web browser	Microsoft Internet Explorer Ver6.0, 7.0, or 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 Guide, SNC Toolbox-RSM-Lite), Installation manual, B&P warranty booklet, FrontSheet (with logo), FrontSheet (without logo), Sensor input cable	

The SNC-CH110 includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (www.openssl.org/).

SNC-CH210

Compact and Affordable Full HD Security Camera. Excellent 1080p Full HD picture quality, supporting H.264 at 30 fps. 3 Megapixels maximum resolution. Three codecs (H.264, MPEG-4, JPEG) and a dual streaming capability. 1/2.8 type progressive scan Exmor CMOS sensor incorporated to realize high image quality.



Key Features and Benefits

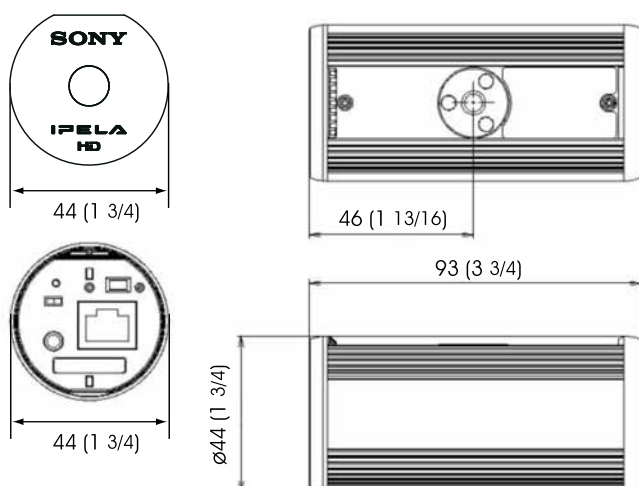
Innovative Design. Compact, slim and two body colours (Silver and Black); suitable for many applications where the bulky camera would be avoided

"Stream Squared" function. 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 field of view and resize to SD resolution or lower for each stream

Standard Features and Benefits

- **Intelligent Motion Detection** that supports DEPA
- **Analogue monitor output (AV mini jack)**
- **Powered by PoE (Power over Ethernet)** for simple installation
- **Recording software (RealShot Manager Lite)** is bundled to start recording and monitoring instantly
- **ONVIF (Open Network Video Interface Forum)** Version 1.01 conformance that ensures greater interoperability and more flexibility in building multiple-vendor systems

Dimensions



Specifications

Camera	
Image device	1/2.8 type progressive scan "Exmor" CMOS sensor
Minimum illumination	TBD
Number of effective pixels (HxV)	3 Megapixel (2096 x 1561)
Electronic shutter	1s to 1/10000s
Auto gain control (AGC)	Auto
Exposure control	Auto Slow Shutter
White balance modes	Auto, Preset, One-push WB, Manual
Lens type	Fixed
Horizontal viewing angle	Approx. 90 degree (TBD)
Focal length	f=3.3 mm
F-number	F2.8
Minimum object distance	TBD
Camera Features	
Day/Night	Yes (electrical D/N)
Image	
Codec image size (H x V)	2048x1536 (JPEG Only), 1920x1080, 1600x1200, 1680x1050, 1440x900, 1280x1024, 1280x960, 1366x768, 1280x800, 1280x720, 1024x768, 1024x576, 768x576, 720x576, 704x576, 800x480, 720x480, 640x480, 640x360, 384x288, 320x240, 320x180 (H.264, MPEG-4, JPEG)
Video compression format	H.264, MPEG-4, JPEG
Codec streaming capability	Dual streaming
Maximum frame rate	H.264: 12fps (1920x1080) (TBD) / 30 fps (1280 x 720) MPEG-4: 15fps (1920x1080) (TBD) / 30 fps (1280 x 720) JPEG: 7fps (2048x1536) (TBD) / 30 fps (1280 x 720)
Scene Analytics	
Motion detection	Yes (TBD)
Tamper alarm	Yes (TBD)
Network	
Protocols	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client/server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP (MIB-2)
ONVIF conformance	Yes
Number of clients	5 (TBD)
Authentication	IEEE802.1X
Interface	
Ethernet	10BASE-T / 100BASE-TX (RJ-45)
Serial interface	No
Card slots	No
Analogue video output	Mini Jack
Sensor input	x 1
Analogue video output	
Signal system	NTSC / PAL
Horizontal resolution	TBD
S/N ratio	TBD
General	
Weight	TBD
Dimensions (ø x H)	44 x 93 mm (1 3/4 x 3 3/4 inches)
Power requirements	PoE
Power consumption	TBD
Operating temperature	0 to 50 °C (32 to 122 °F)
Storage temperature	-20 to +60 °C (-4 to +140 °F)
System Requirements	
Operating system Windows XP, Windows Vista, Windows 7 Processor Intel Core2 Duo 2 GHz or higher Memory 1 GB or more Web browser Microsoft Internet Explorer Ver6.0, 7.0, or 8.0	

The SNC-CH210 includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (<http://www.openssl.org/>).

SNC-CH120

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.



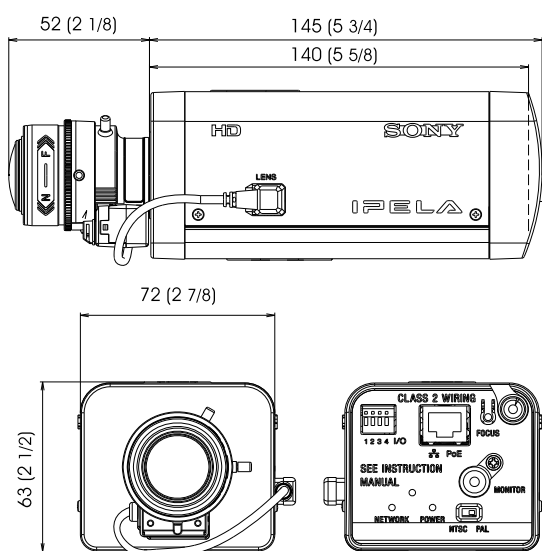
Key Features and Benefits

- Easy focus function.** Automatic adjustment of image focusing simplifies installation
- Day/night function.** Ideal for mechanical switching to monochrome in night conditions
- Recording software (RealShot Manager Lite)** is bundled to start recording and monitoring instantly
- "Stream Squared" function.** 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 field of view and resize to SD resolution or lower for each stream
- DEPA Advanced analytics.** Advanced, powerful intelligent video analytics deliver enhanced system performance

Standard Features and Benefits

- **Analogue 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

Dimensions



Specifications

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 (HxV)	1.4 Megapixel (1329 x 1049)
Electronic shutter	1s to 1/10000s
Auto gain control (AGC)	Auto
Exposure control	Auto, EV Compensation, Auto Slow Shutter
White balance modes	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	
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
Interface	
Ethernet	10BASE-T / 100BASE-TX (RJ-45)
Analogue 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)
Analogue video output	
Signal system	NTSC / PAL
General	
Weight	550 g (1 lb 3 oz) with lens
Dimensions (ø x H)	72 mm x 63 mm x 145 mm (2 7/8 inches x 2 1/2 inches x 5 3/4 inches) not including the projecting parts 72 mm x 63 mm x 197 mm (2 7/8 inches x 2 1/2 inches x 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)
Operating 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	
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 (Users Guides, and supplied programs) (1) Wire rope (1) Screw M4 (1) Installation Manual (1)	

¹ Removable IR Cut Filter.

* The SNC-CH120 includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (www.openssl.org/).

SNC-CH160

High-Quality 720p HD Security Camera with IR Illuminators.
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.



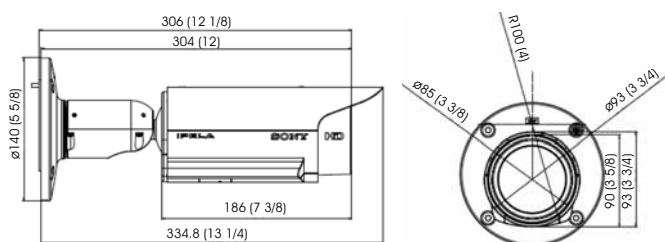
Key Features and Benefits

- IR Illuminator.** Clearly captures objects in the dark up to 15m (49 feet) away with IR illuminators, which allows the camera to operate in 0 lux lighting conditions
- IP66-rated** waterproof and dust-tight feature for outdoor surveillance, or indoor where water ingress may pose an issue
- Easy focus function.** Automatic adjustment of image focusing simplifies installation
- Easy zoom function.** Adjusts the focus relative to the zoom ratio
- Day/night function.** Ideal for mechanical switching to monochrome in night conditions
- Recording software (RealShot Manager Lite)** is bundled to start recording and monitoring instantly
- "Stream Squared" function.** 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 field of view and resize to SD resolution or lower for each stream

Standard Features and Benefits

- Intelligent Motion Detection** that supports DEPA
- Analogue monitor output (phono jack)**
- Powered by PoE (Power over Ethernet)** for simple installation
- Equipped with a built-in heater for continued camera operation in cold weather
- ONVIF (Open Network Video Interface Forum)** conformance that ensures greater interoperability and more flexibility in building multiplevendor systems

Dimensions



Specifications

Camera	
Image device	1/3 type progressive scan "Exmor" CMOS sensor
Minimum illumination	0.50lx (Color), 0 lx (BW) (IR ON) (F1.2/AGC 42dB/50IRE [IP])
Number of effective pixels (HxV)	1.4 Megapixel (1329 x 1049)
Electronic shutter	1 s to 1/10000 s
Auto gain control (AGC)	Auto
Exposure control	Auto, EV Compensation, Auto Slow Shutter
White balance modes	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 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)
IR illuminators	Yes (Wave Length: 850nm [Typical], IR LED: 21pcs)
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
Interface	
Ethernet	10BASE-T / 100BASE-TX (RJ-45)
Analogue monitor output	Phono jack x 1
Sensor input	x 1, make contact, break contact
Alarm output	x 1, 24V AC/DC, 1A (Mechanical relay outputs electrically isolated from the camera)
Analogue video output	
Signal system	NTSC / PAL
General	
Weight	1520 g (3 lb 6 oz)
Dimensions (ø x H)	ø93 x 186 mm (3 3/4 x 7 3/8 inches) ø140 x 334.8 mm (5 5/8 x 13 1/4 inches) (including arm)
Power requirements	PoE
Power consumption	12.9 W max
Starting temperature	-20 to +50 °C (-4 to +122°F)
Operating temperature	-30 to +50 °C (-22 to +122°F)
Storage temperature	-20 to +60 °C (-4 to +140°F)
Ingress protection	IP66
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 Guide, SNC Toolbox), Installation manual, Wire rope, +M4x8 screw, B&P Warranty Booklet, Template

*1 Removable IR Cut Filter.

*The SNC-CH160 includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (www.openssl.org).

SNC-CH220

High-Quality 1080p HD Security Camera. Excellent 1080p HD picture quality, supporting H.264 at 30 fps. 3 Megapixel (1920 x 1440) 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.



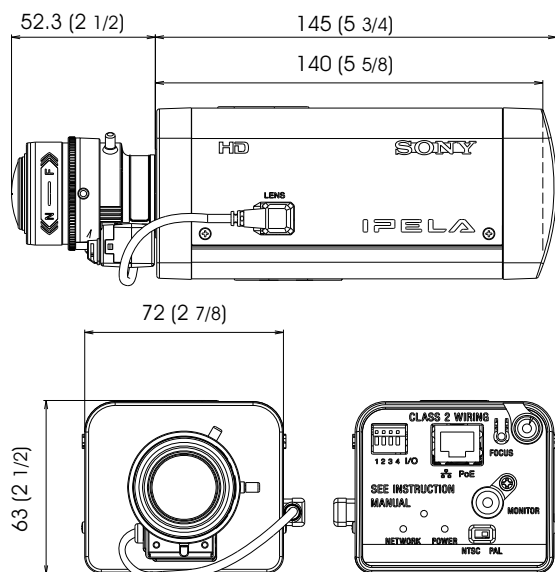
Key Features and Benefits

- Easy focus function.** Automatic adjustment of image focusing simplifies installation
- Day/night function.** Ideal for mechanical switching to monochrome in night conditions
- Recording software (RealShot Manager Lite)** is bundled to start recording and monitoring instantly
- "Stream Squared" function.** 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 field of view and resize to SD resolution or lower for each stream

Standard Features and Benefits

- Intelligent Motion Detection** that supports DEPA
- Equipped with a phono jack to instantly monitor the video while installing the camera
- 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

Dimensions



Specifications

Camera	
Image device	1/2.8 type progressive scan "Exmor" CMOS sensor
Minimum illumination	0.70lx (Color), 0.45lx (BW) (F1.2/ AGC 42dB/ 50IRE (IP))
Number of effective pixels (HxV)	Approx. 3.27Megapixel (2096x1561)
Electronic shutter	1 s to 1/10000 s
Auto gain control (AGC)	Auto
Exposure control	Auto, EV Compensation, Auto Slow Shutter
White balance modes	Auto (ATW, ATW-PRO), Preset, One-push WB, Manual
Lens type	CS Mount Vari-focal lens
Zoom ratio	Optical 2.1X
Horizontal viewing angle	101.2 degrees to 47.0 degrees
Focal length	f=2.8 mm to 6.0 mm
F-number	F1.3 (Wide), F1.9 (Tele)
Minimum objects distance	300 mm
Powered Focus	Yes (Easy Focus)
Camera Features	
Day/Night ^{*1}	Yes
Noise reduction	Yes
Image	
Codec image size (H x V)	1920 x 1440, 1600 x 1200, 1680 x 1056, 1920 x 1080, 1440 x 912, 1376 x 768, 1280 x 960, 1280 x 800, 1280 x 720, 1280 x 1024, 1024 x 768, 1024 x 576, 800 x 480, 768 x 576, 720 x 576, 704 x 576, 720 x 480, 640 x 480, 640x 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	H264: 20fps (1920 x 1440) / 30fps (1920 x 1080) MPEG-4: 15fps (1920 x 1440) / 25 fps (1920 x 1080) JPEG: 10fps (1920 x 1440) / 15fps (1920 x 1080)
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
Interface	
Ethernet	10BASE-T / 100BASE-TX (RJ-45)
Analogue 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)
Analogue video output	
Signal system	NTSC / PAL
General	
Weight	550 g (1 lb 3 oz) with lens
Dimensions (ø x H)	72 x 63 x 197.3 mm (2 7/8 x 2 1/2 x 7 3/4 inches)
Power requirements	PoE (IEEE802.3af compliant)
Power consumption	5.0 W Max.
Starting temperature	0 °C to 50 °C (32 °F to 122°F)
Operating 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	
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 (Users guides, and Supplied programs), Wire rope, Screw M4, Installation Manual	

*1 Removable IR Cut Filter.

* The SNC-CH220 includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (www.openssl.org).

SNC-CH260

High-Quality 1080p HD Security Camera with IR Illuminators.
Excellent 1080p HD picture quality, supporting H.264 at 30 fps.
3 Megapixel (1920 x 1440) 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.



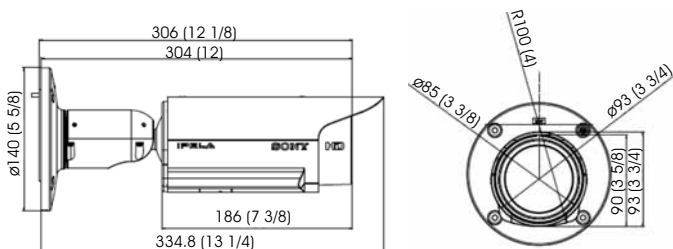
Key Features and Benefits

- IR Illuminator.** Clearly captures objects in the dark up to 15m (49 feet) away with IR illuminators, which allows the camera to operate in 0 lux lighting conditions
- IP66-rated** waterproof and dust-tight feature for outdoor surveillance, or indoor where water ingress may pose an issue
- Easy focus function.** Automatic adjustment of image focusing simplifies installation
- Easy zoom function.** Adjusts the focus relative to the zoom ratio
- Day/night function.** Ideal for mechanical switching to monochrome in night conditions
- Recording software (RealShot Manager Lite)** is bundled to start recording and monitoring instantly
- "Stream Squared" function.** 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 field of view and resize to SD resolution or lower for each stream

Standard Features and Benefits

- Intelligent Motion Detection** that supports DEPA
- Equipped with a phono jack to instantly monitor the video while installing the camera
- Powered by PoE (Power over Ethernet)** for simple installation
- Equipped with a built-in heater** for continued camera operation in cold whether supported (-30 °C to +50 °C / -22 °F to +122 °F)
- ONVIF (Open Network Video Interface Forum)** conformance that ensures greater interoperability and more flexibility in building multiplevendor systems

Dimensions



Specifications

Camera	
Image device	1/2.8 type progressive scan "Exmor" CMOS sensor
Minimum illumination	Color: 0.70lx lx, B/W: 0 lx (IR ON) (F1.2 / AGC 42dB / 50IRE [IP])
Number of effective pixels (HxV)	Approx. 3.27Megapixel (2096×1561)
Electronic shutter	1s to 1/10000 s
Auto gain control (AGC)	Auto
Exposure control	Auto, EV Compensation, Auto Slow Shutter
White balance modes	Auto (ATW, ATW-PRO), Preset, One-push WB, Manual
Lens type	Built-in Vari-focal lens
Zoom ratio	Optical 2.9X (x2 Digital Zoom)
Horizontal viewing angle	88.5 degrees to 32.3 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)
IR illuminators	Yes (Wave Length: 850nm [Typical], IR LED: 21pcs)
Camera Features	
Day/Night*1	Yes
Noise reduction	Yes
Image	
Codec image size (H x V)	1920 x 1440, 1600 x 1200, 1680 x 1056, 1920 x 1080, 1440 x 912, 1376 x 768, 1280 x 960, 1280 x 800, 1280 x 720, 1280 x 1024, 1024 x 768, 1024 x 576, 800 x 480, 768 x 576, 720 x 576, 704 x 576, 720 x 480, 640 x 480, 640x 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	H264: 20fps (1920 x 1440) / 30fps (1920 x 1080) MPEG-4: 15fps (1920 x 1440) / 20 fps (1920 x 1080) JPEG: 10fps (1920 x 1440) / 15fps (1920 x 1080)
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
Interface	
Ethernet	10BASE-T / 100BASE-TX (RJ-45)
Analogue 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)
Analogue video output	
Signal system	NTSC / PAL
General	
Weight	1520g (3 lb 6 oz)
Dimensions (ø x H)	ø93 x 186 mm (3 3/4 x 7 3/8 inches) ø140 x 334.8mm (5 3/8 x 13 1/4 inches) (including arm)
Power requirements	PoE
Power consumption	12.9 W max.
Starting temperature	-20 °C to +50 °C (-4 °F to +122 °F)
Operating temperature	-30 °C to +50 °C (-22 °F to +122 °F)*2
Storage temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Ingress protection	IP66
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 Guide, SNC Toolbox), Installation manual, Wire rope, +M4x8 screw, Warranty Booklet, Template

*1 Removable IR Cut Filter. *2 With a built-in heater.

*The SNC-CH260 includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (www.openssl.org).



SNC-CH140

Delivering HD resolution images in all lighting conditions and utilising state-of-the-art image enhancement with the View-DR wide dynamic range and XDNR noise reduction technologies, the SNC-CH140 from Sony represents the very latest in fixed, HD network camera technology.



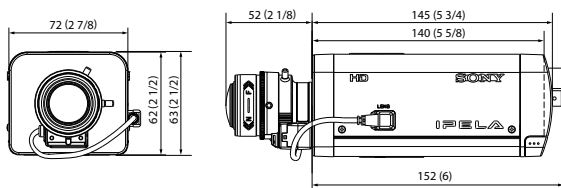
Key Features and Benefits

- 1/3" Sony 1/3" Exmor HD CMOS image sensor with mechanical IRC filter.** Designed for security with superior HD image resolution in all lighting conditions
- View-DR enhanced wide Dynamic range technology.** Superior performance in high contrast lighting conditions
- XDNR noise reduction technology.** Noise and Ghost free images with superior sensitivity in low light conditions
- Easy focus function.** Automatic adjustment of image focusing simplifies installation
- Advanced audio detection.** Monitors and stores ambient audio levels to deliver highly accurate audio alarm triggering
- Day/night function.** Ideal for mechanical switching to monochrome in night conditions
- Dual encoding.** Maximum flexibility when streaming video data
- Analogue video output.** Ideal for setting up of image during installation
- Bi-directional audio function.** Audio may be transmitted in both directions
- JPEG, MPEG-4 and H.264 streaming.** JPEG, MPEG-4, H.264 encoding allows maximum image transmission flexibility
- HD video at 30 fps.** Superior High Definition image quality with real time capture

Standard Features and Benefits

- **Triple codec support.** Delivers flexible image compression formats to overcome bandwidth limitations
- **DEPA Advanced analytics.** Advanced, powerful intelligent video analytics deliver enhanced system performance
- **Onvif support.** Maximum interoperability and flexibility with a wide range of manufacturers' network video products

Dimensions



Specifications

Camera	
Image device	1/3 type progressive scan CMOS
Minimum illumination	Day : 0.20 lx, Night : 0.10 lx (F1.2/View-DR OFF/XDNR ON-Middle/VE OFF/AGC High/50 IRE(IP))
Number of effective pixels (HxV)	Approx. 1.4 Megapixel
Electronic shutter speed	1s to 1/10,000s
Auto gain control (AGC)	Max gain setting LOW, MID, HIGH
Exposure control	Auto, EV Compensation*1, Auto Slow Shutter*2
White balance modes	Auto (ATW, ATW-Pro), Preset, One-push WB, Manual
Lens type	CS Mount lens
Zoom ratio	Approx. 2.9X
Horizontal viewing angle	33.9 to 96.5°
Focal length	f=2.8 to 8.0mm
F-number	F1.2 (wide), F1.9 (tele)
Easy Focus	Yes
Easy Zoom	No
Camera Features	
Day/Night*3	Yes
Wide-D	View-DR*4 (130 dB)
Image enhancement	Visibility Enhancer
Noise reduction	XDNR
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, 640 x 480, 640 x 368, 384 x 288, 320 x 240, 320 x 192
Video compression format	H.264, MPEG-4, JPEG
Maximum frame rate	H.264/MPEG-4/JPEG: 30 fps (1280 x 720)
Audio	
Audio compression	G.711/G.726
Scene analytics	
Intelligent motion detection	Yes (with built-in Post Filter)
Intelligent object detection	No
Advanced audio detection	Yes*5
Network	
Protocols	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client/server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP (MIB-2)
ONVIF conformance	Yes
Wireless network	Yes (with optional*6)
Number of clients	10
Authentication	IEEE802.1X
Interface	
Ethernet connectivity	10BASE-T / 100BASE-TX (RJ-45)
Serial interface	No
Card slots	CF card x1
Analogue video output	Composite video (1Vp-p)
Sensor input	x1
Alarm output	x2
External microphone input	Mini-jack (monaural), MIC IN/LINE IN: 2.47VDC plug-in power
Audio line output	Mini-jack (monaural), Max output level: 1 Vrms
Analogue video output	
Signal system	NTSC/PAL
Horizontal resolution	600 TV lines
S/N ratio	more than 50 dB
General	
Mass	Approx. 600 g (1 lb 2 oz)
Dimensions (W x H x D)	72 x 63 x 197 mm
Power requirements	PoE, AC24V, DC12V
Power consumption	9.0 W max.
Operating temperature	-10 to +50 °C*7 (-14 to 122 °F)
Storage temperature	-20 to +60 °C (-4 to 140 °F)
System requirements	
Operating system	Windows Vista®, Microsoft Windows XP
Processor	Intel Core2 Duo 2GHz or higher
Memory	1GB or more
Web browser	Microsoft Internet Explorer Ver6.0, Ver7.0
Supplied Accessories	
	CD-ROM (User's guides, SNC Toolbox), Installation manual, Wire rope, Warranty booklet

*1 Visibility Enhancer off mode only *2 View-DR off mode only *3 Removable IR Cut Filter

*4 View-DR technology is a combination of Sony's full-capture Wide-D technology, the high-speed "Exmor" CMOS sensor, and Visibility Enhancer. *5 Available with software version 1.1 or later *6 With optional SNCA-CFW5 *7 Cold start temperature must be greater than 0°C.



SNC-CH180

IP66-rated Network HD Bullet Camera with wide dynamic range with built-in infrared (IR) illuminators. This camera delivers quality images even in absolute darkness (0 lx), so is ideal for most demanding surveillance applications.



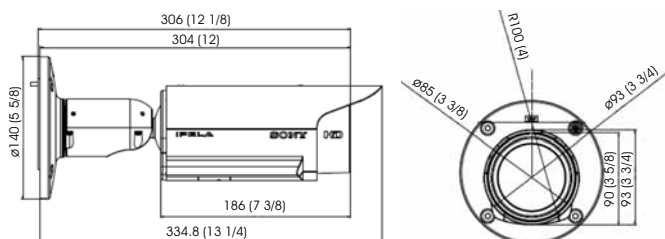
Key Features and Benefits

- IR Illuminator.** Clearly captures objects in the dark up to 15m (49 feet) away with IR illuminators, which allows the camera to operate in 0 lux lighting conditions
- Sony 1/3" Exmor HD CMOS image sensor with mechanical IRC filter.** Designed for security with superior HD image resolution in all lighting conditions
- View-DR enhanced wide Dynamic range technology.** Superior performance in high contrast lighting conditions
- XDNR noise reduction technology.** Noise and Ghost free images with superior sensitivity in low light conditions
- Easy focus function.** Automatic adjustment of image focusing simplifies installation
- Easy zoom function.** Adjusts the focus relative to the zoom ratio

Standard Features and Benefits

- Triple codec support.** Delivers flexible image compression formats to overcome bandwidth limitations
- DEPA Advanced analytics.** Advanced, powerful intelligent video analytics deliver enhanced system performance
- ONVIF support.** Maximum interoperability and flexibility with a wide range of manufacturers' network video products
- IP66 Rated.** Maximum environmental protection for heavy duty outdoor monitoring applications

Dimensions



Specifications

Camera	
Image device	1/3 type progressive scan "Exmor" CMOS sensor
Minimum illumination	0.2 lx (Color) 0 lx (B/W) - IR ON (F1.2 / View-DR Off/VE Off / AGC High(48dB max.) / XDNR Middle / 50IRE (IP))
Number of effective pixels (HxV)	1.4 Megapixel (1329 x 1049)
Electronic shutter	1s to 1/10000s
Auto gain control (AGC)	Auto (3 levels)
Exposure control	Auto, EV Compensation *, Auto Slow Shutter *
White balance modes	Auto (ATW, ATW-PRO), Preset, One-push WB, Manual
Lens type	Vari-focal lens

Specifications (continued)

Camera (continued)	
Horizontal viewing angle	85.4 to 31.2 degrees
Focal length	f=3.1 to 8.9mm
F-number	F1.2 (Wide), F2.1 (Tele)
Minimum object distance	300 mm
Powered Focus	Yes (Easy Focus)
Powered Zoom	Yes (Easy Zoom)
IR illuminators	Yes (Wave Length: 850nm [Typical], IR LED: 27pcs)
Camera Features	
Day/Night *	Yes
Wide-D	View-DR (130 dB)
Image enhancement	Visibility Enhancer
Noise reduction	XDNR
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)
Audio	
Audio compression	G.711/G.726
Scene Analytics	
Intelligent motion detection	Yes (with built-in Post Filter)
Intelligent object detection	No
Rule filter	Yes
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 clients	10
ONVIF conformance	Yes
Wireless network	Yes (with Option **)
Authentication	IEEE802.1X
Interface	
Ethernet	10BASE-T / 100BASE-TX (RJ-45)
Serial interface	No
Card slots	CF card x1
Analogue video output	BNC x 1, RCA x 1
Sensor input	x 1
Alarm output	x 2
External microphone input	Mini-jack (Monaural), MIC IN/LINE IN: 2.5VDC plug-in power
Audio line output	Mini-jack (Monaural), Max output level: 1 Vrms
Analogue video output	
Signal system	NTSC / PAL
Horizontal resolution	600 TV lines
S/N ratio	More than 50dB
General	
Zoom ratio	Optical 2.9X (x2 Digital Zoom)
Weight	1600 g (3 lb 8 oz)
Dimensions (W x H x D)	85 x 90 x 186 mm (3 3/8 x 3 5/8 x 7 3/8 inches) 140 x 140 x 334.8 mm (5 5/8 x 5 5/8 x 13 1/4 inches) (including arm)
Power requirements	PoE *, AC24V, DC12V
Power consumption	TBD
Operating temperature	AC24V/DC12V: -30 to +50 °C (-22 to +122°F) (Tentative) PoE (IEEE802.3af): -10 to +50 °C (23 to 122°F) (Tentative)
Starting temperature	AC24V/DC12V: -20 to +50 °C (-4 to +122°F) (Tentative) PoE (IEEE802.3af): 0 to 50 °C (32 to 122°F) (Tentative)
Storage temperature	-20 to +60 °C (-4 to +140°F)
Ingress protection	IP66
System requirements	
Operating system	Windows XP, Windows Vista, Windows 7
Processor	Intel Core2 Duo 2 GHz or higher
Memory	1 GB or more
Web browser	Microsoft Internet Explorer Ver6.0, 7.0, or 8.0
Supplied Accessories	
	CD-ROM (User's Guide, SNC Toolbox), Installation manual, Wire rope, M4 screw, B&P Warranty Booklet, Template

*1 VE off mode only. *2 View-DR off mode only. *3 Removable IR Cut Filter. *4 With optional SNCA-CFW5. *5 When used with PoE, SNC-CH180 cannot be used with a heater and a CF card slot. The SNC-CH180 includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (<http://www.openssl.org/>).

SNC-CH240

Full-HD Network Camera delivering excellent picture quality in 1080p HD resolution at 30 frames per second. Utilising state-of-the-art image enhancement with View-DR, XDNR and the "Exmor" CMOS sensor.



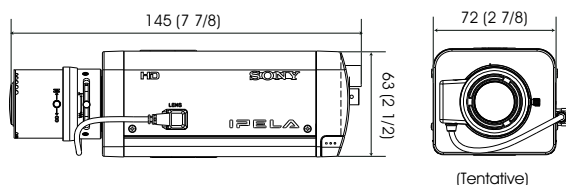
Key Features and Benefits

- 1/3" Sony 1/3" Exmor HD CMOS image sensor with mechanical IRC filter.** Designed for security with superior HD image resolution in all lighting conditions
- View-DR enhanced wide Dynamic range technology.** Superior performance in high contrast lighting conditions
- XDNR noise reduction technology.** Noise and Ghost free images with superior sensitivity in low light conditions
- Easy focus function.** Automatic adjustment of image focusing simplifies installation

Standard Features and Benefits

- DEPA Advanced analytics.** Advanced, powerful intelligent video analytics deliver enhanced system performance
- ONVIF support.** Maximum interoperability and flexibility with a wide range of manufacturers' network video products

Dimensions



Specifications

Camera	
Image device	1/2.8 type progressive scan "Exmor" CMOS sensor
Minimum illumination	TBD
Number of effective pixels (HxV)	3 Megapixel (2096 × 1561) (Tentative)
Electronic shutter	1s to 1/10000s
Auto gain control (AGC)	Auto (3 levels)
Exposure control	Auto, EV Compensation *1, Auto Slow Shutter *2
White balance modes	Auto (ATW, ATW-PRO), Preset, One-push WB, Manual
Lens type	CS mount lens

Specifications (continued)

Camera (continued)	
Horizontal viewing angle	101.2 to 47.0 degrees
Focal length	f=2.8 to 6.0 mm
F-number	F1.3 (Wide), F1.9 (Tele)
Minimum object distance	300 mm
Powered Focus	Yes (Easy Focus)
Powered Zoom	No
Camera Features	
Day/Night *3	Yes
Wide-D	View-DR (90 dB)
Image enhancement	Visibility Enhancer
Noise reduction	XDNR
Image	
Codec image size (H x V)	1920 x 1440, 1600 x 1200, 1680 x 1056, 1920 x 1080, 1440 x 912, 1376 x 768, 1280 x 960, 1280 x 800, 1280 x 720, 1280 x 1024, 1024 x 768, 1024 x 576, 800 x 480, 768 x 576, 720 x 576, 704 x 576, 720 x 480, 640 x 480, 640x 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	H264: 20fps (1920 x 1440) / 30fps (1920 x 1080) MPEG-4: 15fps (1920 x 1440) / 25 fps (1920 x 1080) JPEG: 10fps (1920 x 1440) / 15fps (1920 x 1080)
Audio	
Audio compression	G.711/G.726
Scene Analytics	
Intelligent motion detection	Yes (with built-in Post Filter)
Intelligent object detection	No
Rule filter	Yes
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 clients	10
ONVIF conformance	Yes
Wireless network	Yes (with option *4)
Authentication	IEEE802.1X
Interface	
Ethernet	10BASE-T / 100BASE-TX (RJ-45)
Serial interface	No
Card slots	CF card x1
Analogue video output	BNC x 1
Sensor input	x 1
Alarm output	x 2
External microphone input	Mini-jack (Monaural), MIC IN/LINE IN: 2.5VDC plug-in power
Audio line output	Mini-jack (Monaural), Max output level: 1 Vrms
Analogue video output	
Video system	NTSC / PAL
Horizontal resolution	TBD
S/N ratio	More than 50 dB
General	
Zoom ratio	Optical 2.1X (x2 Digital Zoom)
Weight	650g (1 lb 7 oz) (Tentative)
Dimensions (W x H x D)	72 x 63 x 145 mm (2 7/8 x 2 1/2 x 7 7/8 inches) (Tentative)
Power requirements	PoE, AC24V, DC12V
Power consumption	TBD
Operating temperature *5	-10 to +50 °C (14 to 122 °F) (Tentative)
Storage temperature	-20 to +60 °C (-4 to +140 °F)
Vandal resistant standard	No Yes
System requirements	
Operating system	Windows XP, Windows Vista, Windows 7
Processor	Intel Core2 Duo 2GHz or higher
Memory	1GB or more
Web browser	Microsoft Internet Explorer Ver6.0, 7.0, or 8.0

SNC-CH280

High-Quality 1080p HD Security Camera with IR Illuminators and View-DR. Excellent 1080p HD picture quality, supporting H.264 at 30 fps. 3 Megapixel (1920 x 1440) 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.



Key Features and Benefits



View-DR enhanced wide Dynamic range technology.

Superior performance in high contrast lighting conditions



Visibility Enhancer. Enhanced wide dynamic range improves performance in challenging lighting conditions



IR Illuminator. Clearly captures objects in the dark up to 15m (49 feet) away with IR illuminators, which allows the camera to operate in 0 lux lighting conditions



IP66-rated waterproof and dust-tight feature for outdoor surveillance, or indoor where water ingress may pose an issue



Easy focus function. Automatic adjustment of image focusing simplifies installation



Easy zoom function. Adjusts the focus relative to the zoom ratio



DEPA Advanced analytics. Advanced, powerful intelligent video analytics deliver enhanced system performance

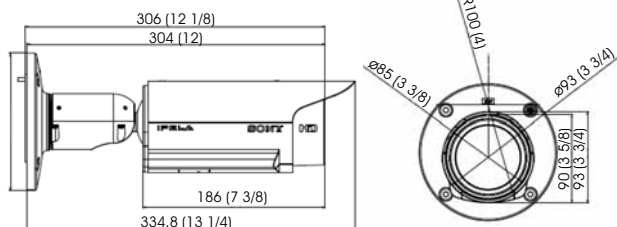


Equipped with a CF slot for on-board recording and wireless operation capability with the optional SNCA-CFW5 802.11g card

Standard Features and Benefits

- **Optical Day/Night function** to switch to Day or Night mode depending on the light level
- **XDNR (eXcellent Dynamic Noise Reduction)** technology for clear images without motion blur under low illumination
- **ONVIF (Open Network Video Interface Forum)** conformance that ensures greater interoperability and more flexibility in building multiple-vendor systems

Dimensions



Camera	
Image device	1/2.8 type progressive scan "Exmor" CMOS sensor
Minimum illumination	Color: 0.40 lx, B/W: 0 lx (IR ON) (F1.2/View-DR OFF/XDNR ON-Middle/VE OFF/AGC High/50 IRE [IP])
Number of effective pixels (HxV)	Approx. 3.27Megapixel (2096x1561)
Electronic shutter	1s to 1/10000 s
Auto gain control (AGC)	Auto (3 levels)
Exposure control	Auto, EV Compensation *1, Auto Slow Shutter *2
White balance modes	Auto (ATW, ATW-PRO), Preset, One-push WB, Manual
Lens type	Built-in Vari-focal lens
Zoom ratio	Optical 2.9X (x2 Digital Zoom)
Horizontal viewing angle	88.5 degrees to 32.3 degrees
Focal length	f=3.1mm to 8.9 mm
F-number	F1.2 (Wide), F2.1 (Tele)

Specifications (continued)

Camera (continued)	
Minimum objects distance	300 mm
Powered Focus	Yes (Easy Focus)
Powered zoom	Yes (Easy Zoom)
IR illuminators	Yes (Wave Length: 850nm [Typical], IR LED: 27pcs)
Camera Features	
Day/Night *3	Yes
Wide-D	View-DR (90dB)
Image enhancement	Image enhancement Visibility Enhancer
Noise reduction	XDNR
Image	
Codec image size (H x V)	1920 x 1440, 1600 x 1200, 1680 x 1056, 1920 x 1080, 1440 x 912, 1376 x 768, 1280 x 960, 1280 x 800, 1280 x 720, 1280 x 1024, 1024 x 768, 1024 x 576, 800 x 480, 768 x 576, 720 x 576, 704 x 576, 720 x 480, 640 x 480, 640x 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	H264: 20fps (1920 x 1440) / 30fps (1920 x 1080) MPEG-4: 15fps (1920 x 1440) / 20fps (1920 x 1080) JPEG: 10fps (1920 x 1440) / 15fps (1920 x 1080)
Audio	
Audio compression	G.711/G.726
Scene Analytics	
Intelligent motion detection	Yes (with built in Post Filter)
Rule filter	Yes
Network	
Protocols	IPv4, IPv6, UDP, TCP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP(client/server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP (MIB-2)
ONVIF conformance	Yes
Wireless network	Yes (with Option *4)
Number of clients	10
Authentication	IEEE802.1X
Analogue Monitor Output	
Signal system	NTSC / PAL
Horizontal resolution	600 TV lines
S/N ratio	more than 50dB
Interface	
Ethernet	10BASE-T / 100BASE-TX (RJ-45)
Analogue monitor output	Phono jack x 1 (1.0 Vp-p, 75 ohms, unbalanced, sync negative)
Serial interface	No
Card slots	CF card x1
Analogue video output	BNC x 1
Analogue monitor output	Phono jack x 1
Sensor input	x 1
Alarm output	x 2
External microphone input	Mini-jack (Monaural), MIC IN/LINE IN: 2.5VDC plug-in power
Audio line output	Mini-jack (Monaural), Max output level: 1 Vrms
General	
Weight	1690 g (3 lb 12 oz)
Dimensions (ø x H)	ø93 x 186 mm (3 3/4 x 7 3/8 inches) ø140 x 334.8mm (5 3/8 x 13 1/4 inches) (including arm)
Power requirements	PoE, AC24V, DC12V
Power consumption	33 W Max.
Starting temperature	AC24V/DC12V : -20 °C to +50 °C (-4 °F to +122 °F) PoE (IEEE802.3af) : 0 °C to 50 °C (32 °F to 122 °F)
Operating temperature	AC24V/DC12V : -30 °C to +50 °C (-22 °F to +122 °F) *5 PoE (IEEE802.3af) : -10 °C to +50 °C (14 °F to 122 °F)
Storage temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Ingress protection	IP66
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 Guide, SNC Toolbox), Installation manual, Wire rope, +M4x8 screw, Warranty Booklet, Template	

*1 VE off mode only. *2 View-DR off mode only. *3 Removable IR Cut Filter. *4 With optional SNCA-CFW5.

*5 With a built-in heater.

*The SNC-CH280 includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (www.openssl.org).

SNC-DH110 / DH110T

Compact and Affordable Full HD Security Camera. Vandal-Resistant HD Security Camera. Excellent 720p HD picture quality, supporting H.264 at 30 fps. 1.3 Megapixel (1280 x 960) maximum resolution. Three codecs (H.264, MPEG-4, JPEG) and a dual streaming capability. 1/3.8 type progressive scan CMOS sensor incorporated to realize high image quality.



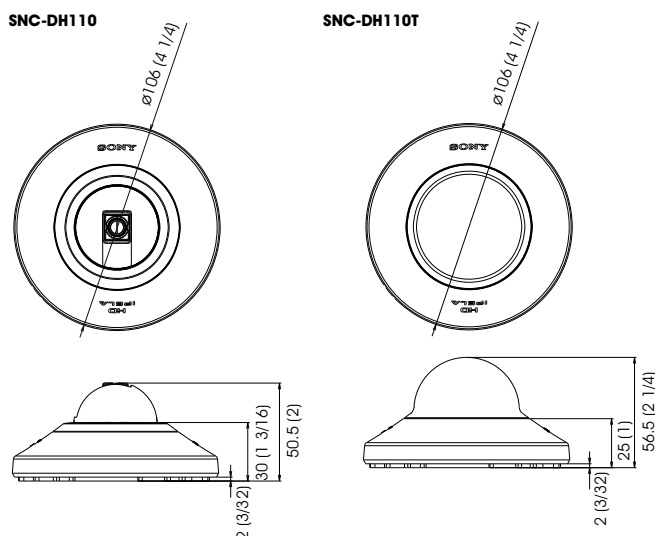
Key Features and Benefits

- Innovative Design.** Compact, slim and two body colours (Silver and Black); suitable for many applications where the bulky camera would be avoided
- "Stream Squared" function.** 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 field of view and resize to SD resolution or lower for each stream
- Day/night function.** Ideal for mechanical switching to monochrome in night conditions

Standard Features and Benefits

- Intelligent Motion Detection** that supports DEPA
- Analogue monitor output (AV mini jack)
- Powered by PoE (Power over Ethernet)** for simple installation
- Recording software (RealShot Manager Lite)** is bundled to start recording and monitoring instantly
- ONVIF (Open Network Video Interface Forum)** Version 1.01 conformance that ensures greater interoperability and more flexibility in building multiple-vendor systems

Dimensions



Specifications

Camera	SNC-DH110	SNC-DH110T
Image device	1/3.8 type CMOS sensor	
Minimum illumination	5.0lx / AGC 30dB / 50IRE(IP)	5.5lx / AGC 30dB / 50IRE(IP)
Number of effective pixels (HxV)	1.3 Megapixel (1296x985)	
Electronic shutter	1/2s to 1/10000s	
Auto gain control (AGC)	Auto	
Exposure control	Auto, EV Compensation, Auto Slow Shutter	
White balance modes	Auto(ATW, ATW-PRO) , Preset, One-push WB, Manual	
Lens type	fixed	
Horizontal viewing angle	80.7 degrees	79 degrees
Focal length	f=2.34	
F-number	F2.8	
Minimum objects distance	500 mm	
Pan angle	Approx. 340°	
Tilt angle	0° to 57°	
Camera Features		
Day/Night	Yes (electrical D/N)	
Noise reduction	Yes	
Image		
Codec image size (H x V)	1280x960, 1280x720, 1024x768, 1024x576, 768x576, 720x576, 704x576, 800x480, 720x480, 640x480, 640x368, 384x288, 352x288, 320x240, 320x192, 176x144	
Video compression format	H.264, MPEG-4, JPEG	
Codec streaming capability	Dual streaming	
Maximum frame rate	JPEG / MPEG-4 / H.264: 30fps (1280x960 / 1280x720)	
Scene Analytics		
Intelligent motion detection	Yes	
Network		
Protocols	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP (MIB-2)	
ONVIF conformance	Yes	
Wireless network	No	
Number of clients	5	
Authentication	IEEE802.1X	
Interface		
Ethernet	10BASE-T / 100BASE-TX (RJ-45)	
Analogue monitor output	AV MiniJack	
Sensor input	x 1	
Analogue video output		
Signal system	NTSC / PAL	
General		
Weight	160 g (5.6 oz) *Without cable ø 106 x 50.5 mm (ø 4 1/4 x 2 inches)	170 g (6 oz) *Without cable ø 106 x 56.5 mm (ø 4 1/4 x 2 1/4 inches)
Dimensions (ø x H)		
Power requirements	PoE IEEE802.3af compliant, class1	
Power consumption	2.4 W max.	
Operating temperature	0 °C to 50 °C (32°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 B, IC Class B, IEC60950-1, EN55022(B)+EN50130-4, VCCI Class B, C-Tick Class B	
System Requirements		
Operating system	WindowsXP, WindowsVista (32bit), Windows7(32bit)	
Processor	Intel Core2 Duo 2 GHz or higher	
Memory	1 GB or more	
Web browser	Microsoft Internet Explorer Ver6.0, 7.0, or 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 Guide, SNC Toolbox, RSM-Lite) Installation manual, B&P Warranty Booklet, Sensor input cable Template	

* The SNC-DH110 and SNC-DH110T include software developed by the OpenSSL Project for use in the OpenSSL Toolkit (www.openssl.org/).

SNC-DH210 / DH210T

Compact and Affordable Full HD Security Camera. Vandal-Resistant HD Security Camera. Excellent 1080p HD picture quality, supporting H.264 at 15 fps. 3 Megapixel (2048 x 1536) 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.



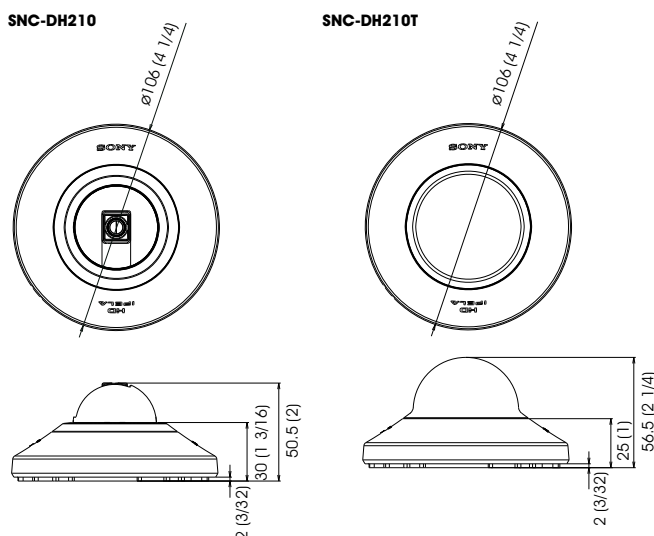
Key Features and Benefits

- Innovative Design.** Compact, slim and two body colours (Silver and Black); suitable for many applications where the bulky camera would be avoided
- "Stream Squared" function.** 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 field of view and resize to SD resolution or lower for each stream
- Day/night function.** Ideal for mechanical switching to monochrome in night conditions

Standard Features and Benefits

- Intelligent Motion Detection** that supports DEPA
- Analogue monitor output (AV mini jack)
- Powered by PoE (Power over Ethernet)** for simple installation
- Recording software (RealShot Manager Lite)** is bundled to start recording and monitoring instantly
- ONVIF (Open Network Video Interface Forum)** Version 1.01 conformance that ensures greater interoperability and more flexibility in building multiple-vendor systems

Dimensions



Specifications

Camera	SNC-DH210	SNC-DH210T
Image device	1/2.8 type progressive scan "Exmor" CMOS sensor	
Minimum illumination	2.0 lx / AGC(38db)/ 50IRE(IP) 2.3 lx / AGC(38db)/ 50IRE(IP)	
Number of effective pixels (HxV)	3Megapixel (2096×1561)	
Electronic shutter	1s to 1/10000 s	
Auto gain control (AGC)	Auto	
Exposure control	Auto, EV Compensation, Auto Slow Shutter	
White balance modes	Auto(ATW, ATW-PRO), Preset, One-push WB, Manual	
Lens type	fixed	
Horizontal viewing angle	88 degrees	86 degrees
Focal length	f=3.3	
F-number	F2.8	
Minimum objects distance	500 mm	
Pan angle	Approx. 340°	
Tilt angle	0° to 60°	
Camera Features		
Day/Night	Yes (electrical D/N)	
Noise reduction	Yes	
Image		
Codec image size (H x V)	2048×1536 (Jpeg Only), 1920x1080, 1600x1200, 1680x1056, 1440x912, 1280x1024, 1280x960, 1376x768, 1280x800, 1280x720, 1024x768, 1024x576, 768x576, 720x576, 704x576, 800x480, 720x480, 640x480, 640x368, 384x288, 352x288, 320x240, 320x192, 176x144	
Video compression format	H.264, MPEG-4, JPEG	
Codec streaming capability	Dual streaming	
Maximum frame rate	JPEG:12fps (2048×1536) /15fps(1920×1080) /30fps: (1280×720) MPEG-4 / H.264: 15fps (1920×1080) / 30fps (1280×720)	
Scene Analytics		
Intelligent motion detection	Yes	
Network		
Protocols	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client), SMTP, DHCP, DNS,NTP, RTP/RTCP, RTSP, SNMP (MIB-2)	
ONVIF conformance	Yes (Version 1.01)	
Number of clients	5	
Authentication	IEEE802.1X	
Interface		
Ethernet	10BASE-T / 100BASE-TX (RJ-45)	
Analogue monitor output	AV MiniJack	
Sensor input	x 1	
Analogue video output		
Signal system	NTSC / PAL	
General		
Weight	160 g (5.6 oz)	170 g (6 oz)
Dimensions (ø x H)	ø 106 x 50.5 mm (ø 4 1/4 x 2 inches)	ø 106 x 56.5 mm (ø 4 1/4 x 2 1/4 inches)
Power requirements	PoE	
Power consumption	2.4W	
Operating temperature	0 °C to 50 °C (32°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	WindowsXP, WindowsVista (32bit), Windows7(32bit)	
Processor	Intel Core2 Duo 2 GHz or higher	
Memory	1 GB or more	
Web browser	Microsoft Internet Explorer Ver6.0, 7.0, or 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 Guide, SNC Toolbox, RSM-Lite), Installation manual, B&P Warranty Booklet, Sensor input cable, Template	

* The SNC-DH210 and SNC-DH210T include software developed by the OpenSSL Project for use in the OpenSSL Toolkit (www.openssl.org/).

SNC-DH120 / DH120T

High-Quality 720p HD Security Camera. 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.



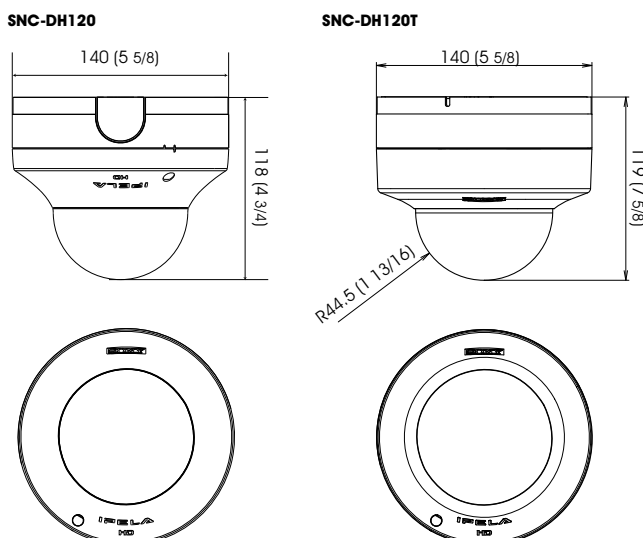
Key Features and Benefits

- Easy focus function.** Automatic adjustment of image focusing simplifies installation
- Easy zoom function.** Adjusts the focus relative to the zoom ratio
- Day/night function.** Ideal for mechanical switching to monochrome in night conditions
- Recording software (RealShot Manager Lite)** is bundled to start recording and monitoring instantly
- "Stream Squared" function.** 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 field of view and resize to SD resolution or lower for each stream

Standard Features and Benefits

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

Dimensions



Specifications

Camera	SNC-DH120	SNC-DH120T
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 (HxV)	1.4 Megapixel (1329 x 1049)	
Electronic shutter	1s to 1/10000s	
Auto gain control (AGC)	Auto	
Exposure control	Auto, EV Compensation, Auto Slow Shutter	
White balance modes	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	
Interface		
Ethernet	10BASE-T / 100BASE-TX (RJ-45)	
Analogue monitor output	Phono jack x 1 (1.0 Vp-p, 75 ohms, unbalanced, sync negative)	
Sensor input	-	x 1, make contact, break contact x 1, 24V AC/DC, 1A (mechanical relay outputs electrically isolated from the camera)
Alarm output	-	
Analogue video output		
Signal system	NTSC / PAL	
General		
Weight	715 g (1 lb 9 oz), not including the cables and bracket ø140 mm x 118 mm (5 5/8 inches x 4 3/4 inches)	945 g (2 lb 1 oz), not including the cables and bracket ø140 mm x 119 mm (5 5/8 inches x 4 3/4 inches)
Dimensions (ø x H)		
Power requirements	PoE (IEEE802.3af compliant)	
Power consumption	6.0 W max.	
Starting temperature	0°C to 50°C (32°F to 122°F)	
Operating 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), LAN cable (1), Installation Manual (1)	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.

* The SNC-DH120 and SNC-DH120T include software developed by the OpenSSL Project for use in the OpenSSL Toolkit (www.openssl.org).

SNC-DH160

IP66 Vandal-Resistant 720p HD Security Camera with IR Illuminators. 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.



Key Features and Benefits



IR Illuminator. Clearly captures objects in the dark up to 15m (49 feet) away with IR illuminators, which allows the camera to operate in 0 lux lighting conditions



IP66-rated waterproof and dust-tight feature for outdoor surveillance, or indoor where water ingress may pose an issue



IK10-rated vandal-resistant feature to protect the camera from destructive behaviors



Easy focus function. Automatic adjustment of image focusing simplifies installation



Easy zoom function. Adjusts the focus relative to the zoom ratio



Day/night function. Ideal for mechanical switching to monochrome in night conditions



Recording software (RealShot Manager Lite) is bundled to start recording and monitoring instantly

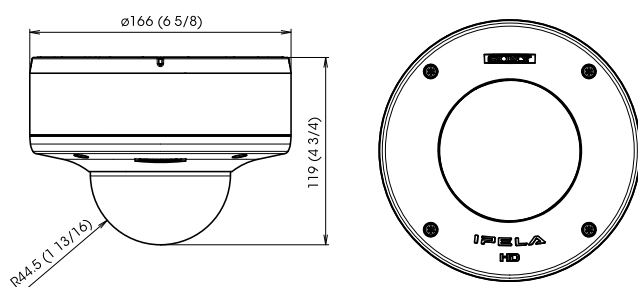


"Stream Squared" function. Allows simultaneous streaming of two 4:3 aspect ratio videos in user selectable SD resolutions. You can select the entire image or a portion of the image from the original field of view and resize to SD resolution or lower for each stream

Standard Features and Benefits

- **Intelligent Motion Detection** that supports DEPA
- Analogue monitor output (AV mini jack)
- **Powered by PoE (Power over Ethernet)** for simple installation
- Equipped with a built-in heater for continued camera operation in cold weather
- **ONVIF (Open Network Video Interface Forum)** conformance that ensures greater interoperability and more flexibility in building multiplevendor systems

Dimensions



Specifications

Camera	
Image device	1/3 type progressive scan "Exmor" CMOS sensor
Minimum illumination	0.50lx (Color), 0 lx (BW) (IR ON) (F1.2/AGC 42dB/50IRE [IP])
Number of effective pixels (HxV)	1.4 Megapixel (1329 x 1049)
Electronic shutter	1 s to 1/10000 s
Auto gain control (AGC)	Auto
Exposure control	Auto, EV Compensation, Auto Slow Shutter
White balance modes	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 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)
IR illuminators	Yes (Wave Length: 850nm [Typical], IR LED: 21pcs)
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
Interface	
Ethernet	10BASE-T / 100BASE-TX (RJ-45)
Analogue monitor output	Phono jack x 1
Sensor input	x 1, make contact, break contact
Alarm output	x 1, 24V AC/DC, 1A (Mechanical relay outputs electrically isolated from the camera)
Analogue video output	
Signal system	NTSC / PAL
General	
Weight	1320 g (2 lb 15 oz)
Dimensions (ø x H)	ø 166 x 119 mm (6 5/8 x 4 3/4 inches)
Power requirements	PoE
Power consumption	12.9 W max
Starting temperature	-20 to +50 °C (-4 to +122°F)
Operating temperature	-30 to +50 °C (-22 to +122°F)
Storage temperature	-20 to +60 °C (-4 to +140°F)
Ingress protection	IP66
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, SNC Toolbox), Installation Manual, Bracket, Template, Wire rope, Camera unit mounting screws (4), Shoulder screw M4, I/O cable, LAN cable, B&P Warranty Booklet	

*1 Removable IR Cut Filter.

*The SNC-DH160 includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (www.openssl.org).



SNC-DH220 / DH220T

High-Quality 1080p HD Security Camera. Vandal-Resistant 1080p HD Security Camera. Excellent 1080p HD picture quality, supporting H.264 at 30 fps. 3 Megapixel (1920 x 1440) 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.



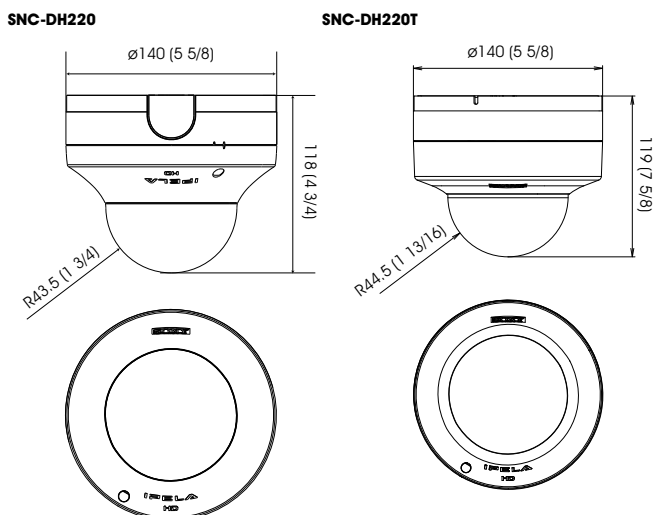
Key Features and Benefits

- Easy focus function.** Automatic adjustment of image focusing simplifies installation
- Easy zoom function.** Adjusts the focus relative to the zoom ratio
- Day/night function.** Ideal for mechanical switching to monochrome in night conditions
- Recording software (RealShot Manager Lite)** is bundled to start recording and monitoring instantly
- "Stream Squared" function.** 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 field of view and resize to SD resolution or lower for each stream

Standard Features and Benefits

- Intelligent Motion Detection** that supports DEPA
- Equipped with a phono jack to instantly monitor the video while installing the camera
- 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

Dimensions



Specifications









Camera	SNC-DH220	SNC-DH220T
Image device	1/2.8 type progressive scan "Exmor" CMOS sensor	
Minimum illumination	0.70 lx (Color), 0.45 lx (BW) (F1.2/ AGC 42dB/ 50IRE [IP])	
Number of effective pixels (HxV)	Approx. 3.27Megapixel (2096×1561)	
Electronic shutter	1 s to 1/10000 s	
Auto gain control (AGC)	Auto	
Exposure control	Auto, EV Compensation, Auto Slow Shutter	
White balance modes	Auto (ATW, ATW-PRO), Preset, One-push WB, Manual	
Lens type	Built-in Vari-focal lens	
Zoom ratio	Optical 2.9X	
Horizontal viewing angle	88.5 degrees to 32.3 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)	1920 x 1440, 1600 x 1200, 1680 x 1056, 1920 x 1080, 1440 x 912, 1376 x 768, 1280 x 960, 1280 x 800, 1280 x 720, 1280 x 1024, 1024 x 768, 1024 x 576, 800 x 480, 768 x 576, 720 x 576, 704 x 576, 720 x 480, 640 x 480, 640x 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	H264: 20fps (1920 x 1440) / 30fps (1920 x 1080) MPEG-4: 15fps (1920 x 1440) / 25 fps (1920 x 1080) JPEG: 10fps (1920 x 1440) / 15fps (1920 x 1080)	
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	
Interface		
Ethernet	10BASE-T / 100BASE-TX (RJ-45)	
Analogue monitor output	Phono jack x 1 (1.0 Vp-p, 75 ohms, unbalanced, sync negative)	
Sensor input	-	x 1, make contact, break contact x 1, 24V AC/DC, 1A (mechanical relay outputs electrically isolated from the camera)
Alarm output	-	
Analogue video output		
Signal system	NTSC / PAL	
General		
Weight	715 g (1 lb 9 oz), not including the cables and bracket ø140 mm × 118 mm (5 5/8 inches × 4 3/4 inches)	945 g (2 lb 1 oz), not including the cables and bracket ø140 mm × 119 mm (5 5/8 inches × 4 3/4 inches)
Dimensions (ø x H)		
Power requirements	PoE (IEEE802.3af compliant)	
Power consumption	6.0 W max.	
Starting temperature	0 °C to 50 °C (32 °F to 122 °F)	
Operating 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), Bracket, Template, Wire rope, Camera unit mounting screws (2), Shoulder screw M4, LAN cable, Installation Manual	CD-ROM (User's guides, and Supplied programs), Bracket, Template, Wire rope, Camera unit mounting screws, Shoulder screw M4, Wrench, I/O cable, LAN cable, Installation Manual

SNC-DH260

IP66 Vandal-Resistant 1080p HD Security Camera with IR Illuminators. Excellent 1080p HD picture quality, supporting H.264 at 30 fps. 3 Megapixel (1920 x 1440) 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.



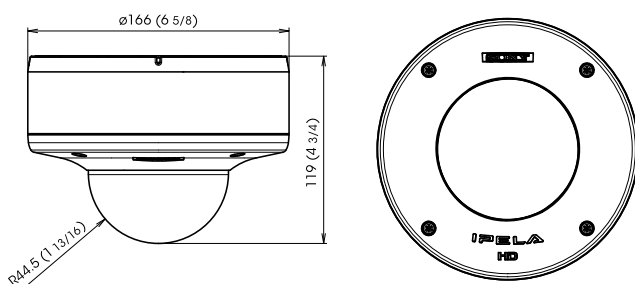
Key Features and Benefits

-  **IR Illuminator.** Clearly captures objects in the dark up to 15m (49 feet) away with IR illuminators, which allows the camera to operate in 0 lux lighting conditions
-  **IP66-rated** waterproof and dust-tight feature for outdoor surveillance, or indoor where water ingress may pose an issue
-  **IK10-rated** vandal-resistant feature to protect the camera from destructive behaviors
-  **Easy focus function.** Automatic adjustment of image focusing simplifies installation
-  **Easy zoom function.** Adjusts the focus relative to the zoom ratio
-  **Day/night function.** Ideal for mechanical switching to monochrome in night conditions
-  **Recording software (RealShot Manager Lite)** is bundled to start recording and monitoring instantly
-  **"Stream Squared" function.** 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 field of view and resize to SD resolution or lower for each stream

Standard Features and Benefits

- **Intelligent Motion Detection** that supports DEPA
- Equipped with a phono jack to instantly monitor the video while installing the camera
- **Powered by PoE (Power over Ethernet)** for simple installation
- Equipped with a built-in heater for continued camera operation in cold whether supported (-30 °C to +50 °C / -22 °F to +122 °F)
- **ONVIF (Open Network Video Interface Forum)** conformance that ensures greater interoperability and more flexibility in building multivendor systems.

Dimensions



Specifications

Camera	
Image device	1/2.8 type progressive scan "Exmor" CMOS sensor
Minimum illumination	Color: 0.70lx lx, B/W: 0 lx (IR ON) (F1.2 / AGC 42dB / 50IRE (IP))
Number of effective pixels (HxV)	Approx. 3.27 Megapixel (2096 x 1561)
Electronic shutter	1 s to 1/10000 s
Auto gain control (AGC)	Auto
Exposure control	Auto, EV Compensation, Auto Slow Shutter
White balance modes	Auto (ATW, ATW-PRO), Preset, One-push WB, Manual
Lens type	Built-in Vari-focal lens
Zoom ratio	Optical 2.9X
Horizontal viewing angle	88.5 degrees to 32.3 degrees
Focal length	f=3.1mm 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)
IR illuminators	Yes (Wave Length: 850nm [Typical], IR LED: 21pcs)
Camera Features	
Day/Night *1	Yes
Noise reduction	Yes
Image	
Codec image size (H x V)	1920 x 1440, 1600 x 1200, 1680 x 1056, 1920 x 1080, 1440 x 912, 1376 x 768, 1280 x 960, 1280 x 800, 1280 x 720, 1280 x 1024, 1024 x 768, 1024 x 576, 800 x 480, 768 x 576, 720 x 576, 704 x 576, 720 x 480, 640 x 480, 640x 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	H264: 20fps (1920 x 1440) / 30fps (1920 x 1080) MPEG-4: 15fps (1920 x 1440) / 20 fps (1920 x 1080) JPEG: 10fps (1920 x 1440) / 15fps (1920 x 1080)
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
Interface	
Ethernet	10BASE-T / 100BASE-TX (RJ-45)
Analogue 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)
Analogue video output	
Signal system	NTSC / PAL
General	
Weight	1320g (2 lb 15 oz)
Dimensions (ø x H)	ø 166 x 119 mm (6 5/8 x 4 3/4 inches)
Power requirements	PoE
Power consumption	12.9 W Max.
Starting temperature	-20 °C to +50 °C (-4 °F to +122 °F)
Operating temperature	-30 °C to +50 °C (-22 °F to +122 °F)*2
Storage temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Ingress protection	IP66
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 Guide, SNC Toolbox), Installation manual, Wire rope, M4 screw, Warranty Booklet, Template	

*1 Removable IR Cut Filter. *2 With a built-in heater.

*The SNC-DH260 includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (www.openssl.org/).



SNC-DH140 / DH140T

Delivering HD resolution images in all lighting conditions and utilising state-of-the-art image enhancement with the View-DR wide dynamic range and XDNR noise reduction technologies, the SNC-DH140 from Sony represents the very latest in mini-dome, HD network camera technology.



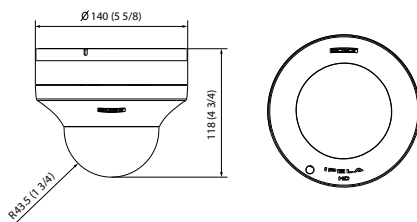
Key Features and Benefits

- 1/3" Sony 1/3" Exmor HD CMOS image sensor with mechanical IRC filter.** Designed for security with superior HD image resolution in all lighting conditions
- View-DR enhanced wide Dynamic range technology.** Superior performance in high contrast lighting conditions
- XDNR noise reduction technology.** Noise and Ghost free images with superior sensitivity in low light conditions
- Easy focus function.** Automatic adjustment of image focusing simplifies installation
- Easy zoom function.** Adjusts the focus relative to the zoom ratio
- Advanced audio detection.** Monitors and stores ambient audio levels to deliver highly accurate audio alarm triggering

Standard Features and Benefits

- Triple codec support.** Delivers flexible image compression formats to overcome bandwidth limitations
- DEPA Advanced analytics.** Advanced, powerful intelligent video analytics deliver enhanced system performance
- Onvif support.** Maximum interoperability and flexibility with a wide range of manufacturers' network video products

Dimensions



Specifications

Camera	SNC-DH140	SNC-DH140T
Image device	1/3 type progressive scan CMOS	
Minimum illumination	Day : 0.20 lx, Night : 0.10 lx (F1.2/View-DR OFF/XDNR ON-Middle/VE OFF/AGC High/50 IRE[IP])	
Number of effective pixels (HxV)	Approx. 1.4 Megapixel	
Electronic shutter speed	1s to 1/10,000s	
Auto gain control (AGC)	Max gain setting LOW, MID, HIGH	
Exposure control	Auto, EV Compensation*1, Auto Slow Shutter*2	
White balance modes	Auto (ATW, ATW-Pro), Preset, One-push WB, Manual	
Lens type	Vari-focal lens	
Zoom ratio	Approx. 2.9X	

Specifications (continued)

Camera (continued)	SNC-DH140	SNC-DH140T
Horizontal viewing angle	31.2 to 85.4°	
Focal length	f=3.1 to 8.9mm	
F-number	F1.2 (wide), F2.1 (tele)	
Easy Focus	Yes	
Easy Zoom	Yes	
Camera Features		
Day/Night*3	Yes	
Wide-D	View-DR**4 (130 dB)	
Image enhancement	Visibility Enhancer	
Noise reduction	XDNR	
Vandal resistant standard	No	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, 640 x 480, 640 x 368, 384 x 288, 320 x 240, 320 x 192	
Video compression format	H.264, MPEG-4, JPEG	
Maximum frame rate	H.264/MPEG-4/JPEG: 30 fps (1280 x 720)	
Audio		
Audio compression	G.711/G.726	
Scene analytics		
Intelligent motion detection	Yes (with built-in Post Filter)	
Intelligent object detection	No	
Advanced audio detection	Yes*5	
Network		
Protocols	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client/server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP (MIB-2)	
ONVIF conformance	Yes	
Wireless network	No	
Number of clients	10	
Authentication	IEEE802.1X	
Interface		
Ethernet connectivity	10BASE-T / 100BASE-TX (RJ-45)	
Serial interface	No	
Card slots	No	
Analogue video output	Composite video (1Vp-p)	
Sensor input	x1	
Alarm output	x2	
External microphone input	Mini-jack (monaural), MIC IN/LINE IN: 2.47VDC plug-in power	
Audio line output	Mini-jack (monaural), Max output level: 1 Vrms	
Analogue video output		
Signal system	NTSC/PAL	
Horizontal resolution	600 TV lines	
S/N ratio	more than 50 dB	
General		
Mass	Approx. 750 g (1 lb 10 oz)	
Dimensions (W x H x D)	140 x 118 mm	
Power requirements	PoE, AC24V, DC12V	
Power consumption	8.0 W max.	
Operating temperature	-10 to +50 °C*7 (-14 to 122 °F)	
Storage temperature	-20 to +60 °C (-4 to 140 °F)	
System requirements		
Operating system	Windows Vista®, Microsoft Windows XP	
Processor	Intel Core2 Duo 2GHz or higher	
Memory	1GB or more	
Web browser	Microsoft Internet Explorer Ver6.0, Ver7.0	
Supplied Accessories		
	CD-ROM (User's guides, SNC Toolbox), Installation manual, Template, Wire rope, Bracket, LAN cable, BNC cable, Power input cable, I/O cable, Audio Cable, Warranty booklet, M4 shoulder screw, M4 screws (2)	

*1 Visibility Enhancer off mode only *2 View-DR off mode only *3 Removable IR Cut Filter

*4 View-DR technology is a combination of Sony's full-capture Wide-D technology, the high-speed "Exmor" CMOS sensor, and Visibility Enhancer. *5 Available with software version 1.1 or later *6 With optional SNCA-CFW5 *7 Cold start temperature must be greater than 0°C.



SNC-DH180

Vandal-resistant HD Mini-dome camera, with wide dynamic range and built-in infrared (IR) illuminators. This rugged camera features state-of-the-art image enhancement technology, View-DR and XDNR.



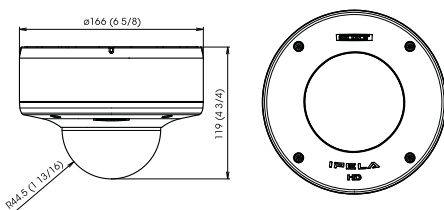
Key Features and Benefits

- IR Illuminator.** Clearly captures objects in the dark up to 15m (49 feet) away with IR illuminators, which allows the camera to operate in 0 lux lighting conditions
- Sony 1/3" Exmor HD CMOS image sensor with mechanical IRC filter.** Designed for security with superior HD image resolution in all lighting conditions
- View-DR enhanced wide Dynamic range technology.** Superior performance in high contrast lighting conditions
- XDNR noise reduction technology.** Noise and Ghost free images with superior sensitivity in low light conditions
- Easy focus function.** Automatic adjustment of image focusing simplifies installation
- Easy zoom function.** Adjusts the focus relative to the zoom ratio

Standard Features and Benefits

- Triple codec support.** Delivers flexible image compression formats to overcome bandwidth limitations
- DEPA Advanced analytics.** Advanced, powerful intelligent video analytics deliver enhanced system performance
- ONVIF support.** Maximum interoperability and flexibility with a wide range of manufacturers' network video products
- IP66 Rated.** Maximum environmental protection for heavy duty outdoor monitoring applications

Dimensions



Specifications

Camera	SNC-DH180
Image device	1/3 type progressive scan "Exmor" CMOS sensor
Minimum illumination	0.2 lx (Color) 0 lx (B/W) - IR ON (F1.2 / View-DR Off/VE Off / AGC High(48dB max.) / XDNR Middle / S0IRE [IP])
Number of effective pixels (HxV)	1.4 Megapixel (1329 x 1049)
Electronic shutter	1s to 1/10000s
Auto gain control (AGC)	Auto (3 levels)
Exposure control	Auto, EV Compensation *1, Auto Slow Shutter *2
White balance modes	Auto (ATW, ATW-PRO), Preset, One-push WB, Manual
Lens type	Vari-focal lens
Horizontal viewing angle	85.4 to 31.2 degrees
Focal length	f=3.1 to 8.9 mm

Specifications (continued)

Camera (continued)	SNC-DH180
F-number	F1.2 (wide), F2.1 (tele)
Minimum object distance	300 mm
Powered Focus	Yes (Easy Focus)
Powered Zoom	Yes (Easy Zoom)
IR illuminators	Yes (Wave Length: 850nm [Typical], IR LED: 21 pcs)
Camera Features	
Day/Night *3	Yes
Wide-D	View-DR (130 dB)
Image enhancement	Visibility Enhancer
Noise reduction	XDNR
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, 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) MPEG-4: 25fps (1280 x 1024) JPEG: 30fps (1280 x 1024) H.264/MPEG-4/JPEG: 30 fps (1280 x 720)
Audio	
Audio compression	G.711/G.726
Scene Analytics	
Intelligent motion detection	Yes (with built-in Post Filter)
Intelligent object detection	No
Rule filter	Yes
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 clients	10
ONVIF conformance	Yes
Wireless network	No
Authentication	IEEE802.1X
Interface	
Ethernet	10BASE-T / 100BASE-TX (RJ-45)
Serial interface	No
Card slots	No
Analogue video output	BNC x 1, RCA x 1
Sensor input	x 1
Alarm output	x 2
External microphone input	Mini-jack (Monaural), MIC IN/LINE IN: 2.5VDC plug-in power
Audio line output	Mini-jack (Monaural), Max output level: 1 Vrms
Analogue video output	
Video system	NTSC / PAL
Horizontal resolution	600 TV lines
S/N ratio	More than 50 dB
General	
Zoom ratio	Optical 2.9X (x2 Digital Zoom)
Weight	1380 g (3 lb 10 oz)
Dimensions (W x H x D)	166 x 119 mm (6 5/8 x 4 3/4 inches)
Power requirements	PoE *4, AC24V, DC12V
Power consumption	28 W max.
Operating temperature	AC24V/DC12V: -30 to 50 °C (-22 to 122°F) PoE (IEEE802.3af): -10 to 50 °C (23 to 122°F)
Storage temperature	AC24V/DC12V: -20 to 50 °C (-4 to 122°F) PoE (IEEE802.3af): 0 to 50 °C (32 to 122°F)
Vandal resistant standard	Yes
System requirements	
Operating system	Windows XP, Windows Vista
Processor	Intel Core2 Duo 2 GHz or higher
Memory	1 GB or more
Web browser	Microsoft Internet Explorer Ver 6.0 or 7.0
Supplied Accessories	
	CD-ROM (User's Guide, SNC Toolbox), Installation manual, Wire rope, Bracket, BNC cable, I/O cable, Audio cable, M4 shoulder screw, M4 screw x 4, Flyer, L-wrench, B&P Warranty Booklet, Template

*1 VE off mode only. *2 View-DR off mode only. *3 Removable IR Cut Filter. *4 When used with PoE, SNC-DH180 cannot be used with a heater. The SNC-DH180 includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (<http://www.openssl.org/>).

SNC-DH240 / DH240T

Full-HD Network Camera delivering excellent picture quality in 1080p HD resolution at 30 frames per second. Utilising state-of-the-art image enhancement with View-DR, XDNR and the "Exmor" CMOS sensor.



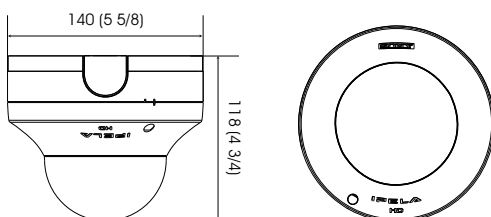
Key Features and Benefits

- 1/3" Sony 1/3" Exmor HD CMOS image sensor with mechanical IRC filter.** Designed for security with superior HD image resolution in all lighting conditions
- View-DR enhanced wide Dynamic range technology.** Superior performance in high contrast lighting conditions
- XDNR noise reduction technology.** Noise and Ghost free images with superior sensitivity in low light conditions
- Easy focus function.** Automatic adjustment of image focusing simplifies installation
- Easy zoom function.** Adjusts the focus relative to the zoom ratio

Standard Features and Benefits

- DEPA Advanced analytics.** Advanced, powerful intelligent video analytics deliver enhanced system performance
- ONVIF support.** Maximum interoperability and flexibility with a wide range of manufacturers' network video products
- Ruggedised design.** Ideal for hostile indoor conditions. (on SNC-DH240T only)

Dimensions



Specifications

Camera	SNC-DH240	SNC-DH240T
Image device	1/2.8 type progressive scan "Exmor" CMOS sensor	
Minimum illumination	TBD	
Number of effective pixels (HxV)	3 Megapixel (2096 x 1561) (tentative)	
Electronic shutter	1s to 1/10000s	
Auto gain control (AGC)	Auto (3 levels)	
Exposure control	Auto, EV Compensation *1, Auto Slow Shutter *2	
White balance modes	Auto (AIW, AIW-PRO), Preset, One-push WB, Manual	
Lens type	Vari-focal lens	

Specifications (continued)

Camera (continued)	SNC-DH240	SNC-DH240T
Horizontal viewing angle	88.5 to 32.3 degrees	
Focal length	f=3.1 to 8.9 mm	
F-number	F1.2 (Wide), F2.1 (Tele)	
Minimum object distance	300 mm	
Powered Focus	Yes (Easy Focus)	
Powered Zoom	Yes (Easy Zoom)	
Camera Features		
Day/Night *3	Yes	
Wide-D	View-DR (90 dB)	
Image enhancement	Visibility Enhancer	
Noise reduction	XDNR	
Vandal resistant standard	No	Yes
Image		
Codec image size (H x V)	1920 x 1440, 1600 x 1200, 1680 x 1056, 1920 x 1080, 1440 x 912, 1376 x 768, 1280 x 960, 1280 x 800, 1280 x 720, 1280 x 1024, 1024 x 768, 1024 x 576, 800 x 480, 768 x 576, 720 x 576, 704 x 576, 720 x 480, 640 x 480, 640x 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	H264: 20fps (1920 x 1440) / 30fps (1920 x 1080) MPEG-4: 15fps (1920 x 1440) / 25 fps (1920 x 1080) JPEG: 10fps (1920 x 1440) / 15fps (1920 x 1080)	
Audio		
Audio compression	G.711/G.726	
Scene Analytics		
Intelligent motion detection	Yes (with built-in Post Filter)	
Intelligent object detection	No	
Rule filter	Yes	
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 clients	10	
ONVIF conformance	Yes	
Wireless network	No	
Authentication	IEEE802.1X	
Interface		
Ethernet	10BASE-T / 100BASE-TX (RJ-45)	
Serial interface	No	
Card slots	No	
Analogue video output	BNC x 1, RCA x 1	
Sensor input	x 1	
Alarm output	x 2	
External microphone input	Mini-jack (Monaural), MIC IN/LINE IN: 2.5VDC plug-in power	
Audio line output	Mini-jack (Monaural), Max output level: 1 Vrms	
Analogue video output		
Video system	NTSC / PAL	
Horizontal resolution	TBD	
S/N ratio	More than 50 dB	
General		
Zoom ratio	Optical 2.9X (x2 Digital Zoom)	
Weight	750g (1 lb 10 oz)	
Dimensions (W x H x D)	140 x 118 mm (5 5/8 x 4 3/4 inches)	
Power requirements	PoE, AC24V, DC12V	
Power consumption	TBD	
Operating temperature *5	-10 to +50 °C (14 to 122 °F) (Tentative)	
Storage temperature	-20 to +60 °C (-4 to +140 °F)	
System requirements		
Operating system	Windows XP, Windows Vista, Windows 7	
Processor	Intel Core2 Duo 2GHz or higher	
Memory	1GB or more	
Web browser	Microsoft Internet Explorer Ver6.0, 7.0, or 8.0	

*1 VE off mode only. *2 View-DR off mode only. *3 Removable IR Cut Filter. *4 With optional SNCA-CFW5.
*5 Cold start must be greater than -20 degree. * The SNC-DH240 and SNC-DH240T include software developed by the OpenSSL Project for use in the OpenSSL Toolkit (<http://www.openssl.org/>).

SNC-DH280

IP66 Vandal-Resistant 1080p HD Security Camera with IR Illuminators and View-DR. Excellent 1080p HD picture quality, supporting H.264 at 30 fps. 3 Megapixel (1920 x 1440) 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.



Key Features and Benefits



View-DR enhanced wide Dynamic range technology. Superior performance in high contrast lighting conditions



Visibility Enhancer. Enhanced wide dynamic range improves performance in challenging lighting conditions



IR Illuminator. Clearly captures objects in the dark up to 15m (49 feet) away with IR illuminators, which allows the camera to operate in 0 lux lighting conditions



IP66-rated waterproof and dust-tight feature for outdoor surveillance, or indoor where water ingress may pose an issue



IK10-rated vandal-resistant feature to protect the camera from destructive behaviors



Easy focus function. Automatic adjustment of image focusing simplifies installation



Easy zoom function. Adjusts the focus relative to the zoom ratio

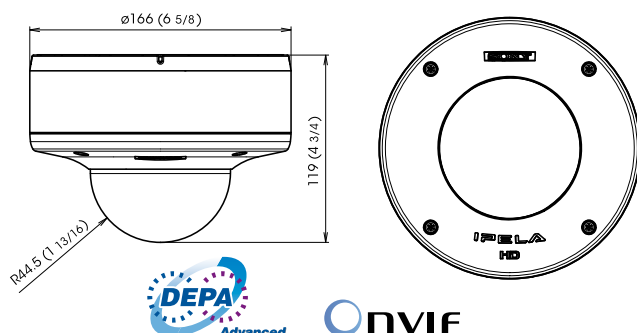


DEPA Advanced analytics. Advanced, powerful intelligent video analytics deliver enhanced system performance

Standard Features and Benefits

- **Optical Day/Night function** to switch to Day or Night mode depending on the light level
- **XDNR (eXcellent Dynamic Noise Reduction)** technology for clear images without motion blur under low illumination
- **Powered by either AC 24V, DC 12V, or PoE (Power over Ethernet)** for easy installation
- Equipped with a built-in heater for continued camera operation in cold weather supported (-30 °C to +50 °C / -22 °F to +122 °F)
- Equipped with a BNC connector and a phono jack to instantly monitor the video while installing the camera
- **ONVIF (Open Network Video Interface Forum)** conformance that ensures greater interoperability and more flexibility in building multiple-vendor systems

Dimensions



Specifications

Camera	
Image device	1/2.8 type progressive scan "Exmor" CMOS sensor
Minimum illumination	Color: 0.40 lx, B/W: 0 lx (IR ON) (F1.2/View-DR Off/XDNR ON-Middle/VE Off/AGC High/50 IRE [IP])
Number of effective pixels (HxV)	Approx. 3.27Megapixel (2096x1561)
Electronic shutter	1 s to 1/10000 s
Auto gain control (AGC)	Auto (3 levels)
Exposure control	Auto, EV Compensation *1, Auto Slow Shutter *2
White balance modes	Auto (ATW, ATW-PRO), Preset, One-push WB, Manual
Lens type	Built-in Vari-focal lens
Zoom ratio	Optical 2.9X (x2 Digital Zoom)
Horizontal viewing angle	88.5 degrees to 32.3 degrees
Focal length	f=3.1mm 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)
IR illuminators	Yes (Wave Length: 850nm [Typical], IR LED: 21pcs)
Camera Features	
Day/Night *3	Yes
Wide-D	View-DR (90dB)
Image enhancement	Image enhancement Visibility Enhancer
Noise reduction	Yes
Image	
Codec image size (H x V)	1920 x 1440, 1600 x 1200, 1680 x 1056, 1920 x 1080, 1440 x 912, 1376 x 768, 1280 x 960, 1280 x 800, 1280 x 720, 1280 x 1024, 1024 x 768, 1024 x 576, 800 x 480, 768 x 576, 720 x 576, 704 x 576, 720 x 480, 640 x 480, 640x 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	H264: 20fps (1920 x 1440) / 30fps (1920 x 1080) MPEG-4: 15fps (1920 x 1440) / 20fps (1920 x 1080) JPEG: 10fps (1920 x 1440) / 15fps (1920 x 1080)
Audio	
Audio compression	G.711/G.726
Scene Analytics	
Intelligent motion detection	Yes (with built-in Post Filter)
Rule filter	Yes
Network	
Protocols	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client/server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP (MIB-2)
ONVIF conformance	Yes
Number of clients	10
Authentication	IEEE802.1X
Interface	
Ethernet	10BASE-T / 100BASE-TX (RJ-45)
Analogue video output	BNC x 1
Analogue monitor output	Phono jack x 1
Sensor input	x 1
Alarm input	x 2
External microphone input	Mini-jack (Monaural), MIC IN/LINE IN: 2.5VDC plug-in power
Audio line output	Mini-jack (Monaural), Max output level: 1 Vrms
Analogue Monitor Output	
Signal system	NTSC / PAL
Horizontal resolution	600 TV lines
S/N ratio	More than 50 dB
General	
Weight	1400g (3 lb 1 oz)
Dimensions (ø x H)	ø 166 x 119 mm (6 5/8 x 4 3/4 inches)
Power requirements	PoE, AC24V, DC12V
Power consumption	29 W Max.
Starting temperature	AC24V/DC12V : -20 °C to +50 °C (-4 °F to +122 °F) PoE (IEEE802.3af) : 0 °C to 50 °C (32 °F to 122 °F)
Operating temperature	AC24V/DC12V : -30 °C to +50 °C (-22 °F to +122 °F)*4 PoE (IEEE802.3af) : -10 °C to +50 °C (14 °F to 122 °F)
Storage temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Ingress protection	IP66
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 Guide, SNC Toolbox), Installation manual, Wire rope, M4 screw, Warranty Booklet, Template	







*1 VE off mode only, *2 View-DR off mode only, *3 Removable IR Cut Filter, *4 With a built-in heater.
The SNC-DH280 includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (www.openssl.org/).

SNC-RZ25P

Effective and efficient remote network monitoring – the SNC-RZ25NP offers MPEG-4 or JPEG compression and PTZ (Pan/Tilt/Zoom) in a single package.



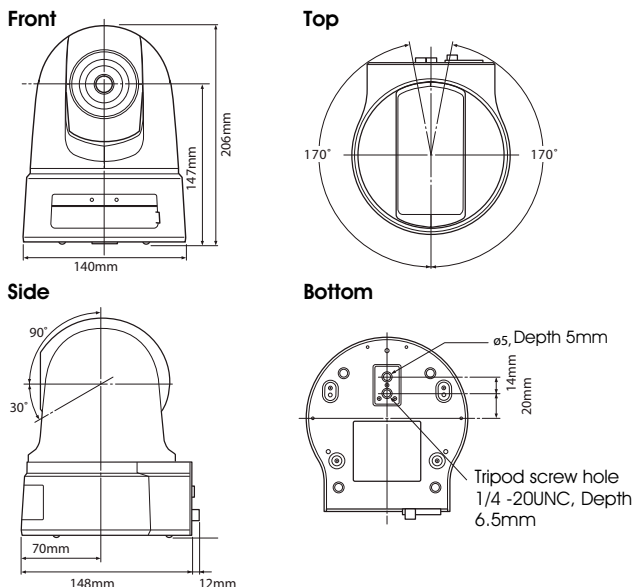
Key Features and Benefits

-  **1/4-type CCD with Exwave HAD™ technology.**
High quality images with superior sensitivity
-  **Dual encoding.** Maximum flexibility when streaming video data
-  **Day/night function.** Ideal for mechanical switching to monochrome in night conditions
-  **Bi-directional audio.** Audio may be transmitted in both directions
-  **Motion detection alarm handling with pre-alarm function.**
Alarms generated on image motion, can be used to trigger external alarm device
-  **Analogue video output.** Ideal for assisting in image set-up during installation

Standard Features and Benefits

- **Manual and electronic zoom functions.** 18x optical, 216x with electronic function
- **Accessory expansion slot.** Allows for addition of external image storage accessories
- **Image Flip function.**

Dimensions



Specifications








Camera	
Image device	1/4-type CCD ExwaveHAD CCD
Number of effective pixels (HxV)	444,000 (752 x 582)
Electronic shutter	1/1 to 1/10,000s
Auto gain control (AGC)	Auto/Manual (-3dB to 28dB)
Exposure control	Auto, Shutter priority, Iris priority, Manual
White balance modes	Auto, Indoor, Outdoor, One-push, ATW, Manual
Lens type	Auto Focus Zoom Lens
Focal length	f = 4.1mm to 73.8mm
F-number	F1.4 (Wide), F3.0 (Tele)
Minimum object distance	300mm (wide), 800mm (tele)
Image	
Image size (H x V) MPEG-4	640 x 480, 480 x 360, 384 x 288, 320 x 240, 256 x 192, 160 x 120
Image size (H x V) JPEG	640 x 480, 480 x 360, 384 x 288, 320 x 240, 256 x 192, 160 x 120
MPEG-4 frame rate	25fps (320x240), 15fps (640 x 480)
JPEG frame rate	25fps (320x240), 18fps (640 x 480)
Audio	
Audio compression	G.711 (64kbps) / G.726 (40, 32, 24, 16kbps)
Network	
Protocols	TCP/IP, ARP, ICMP, DHCP, DNS, HTTP, FTP, SMTP, NTP, SNMP (MIB-2), RTP/RTCP, PPPoE
Number of clients	10 (MPEG4), 20 (JPEG)
Interface	
Analogue connectivity	BNC x1, composite video 1.0Vp-p, 75Ω
Ethernet connectivity	10 Base-T/100Base-TX (RJ-45)
I/O port connectivity	Sensor in 2, Alarm out 2
Audio connectivity	External Microphone Input: Mini-Jack, 2.4V DC plug-in power, 4.7k ohm. Line Output: Mini-Jack (Monaural), Max output level: 0.9Vrms
Analogue video output	
Video system	PAL
Horizontal resolution	More than 460 TV lines
S/N ratio	More than 50dB
Sensitivity colour	0.7lx (50IRE, F1.4, AGC ON)
General	
Zoom ratio	x18 optical zoom (x216 with digital zoom)
Weight	Approx. 1.3kg
Dimensions (W x H x D)	140 x 206 x 148mm
Power requirements	AC 24V/DC 12V
Power consumption	18W max.
Operating temperature	0 to 40°C (32 to 104°F)
Storage temperature	-20 to 60°C (-4 to 140°F)
System requirements	
Operating system	Microsoft Windows 2000/XP/Vista®
System requirements	CPU: Intel® Pentium® IV 1.5GHz or higher. RAM: 256MB or more, (Vista) Intel® Pentium® IV 3GHz or higher/Core2 Duo 2GHz or higher, RAM: 1GB or more
Supplied Accessories	
Ceiling Mount-Kit, CD-ROM (User's Guide, Setup and SNC Panorama Creator Software), Installation Manual	

SNC-RZ50P

The SNC-RX series, SNC-RZ50 and SNC-CS50 third-generation network cameras are the latest in a series of Sony network cameras that support Intelligent Video Analytics. This efficient and intelligent processing method can provide greater operational efficiency and a high level of security.



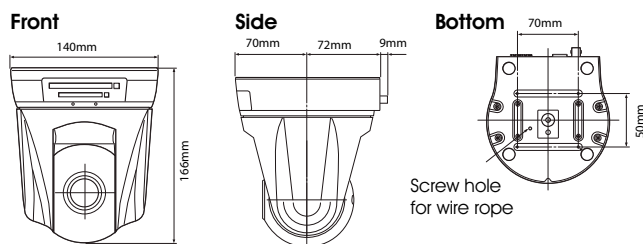
Key Features and Benefits

-  **1/4-type CCD with Exwave HAD™ technology.** Clear high performance images
-  **Dynamic frame integration.** Reduces motion blur from high speed images
-  **H.264, JPEG, MPEG-4 and H.264 streaming.** JPEG, MPEG-4, H.264 encoding allows maximum image transmission flexibility
-  **Day/night function.** Switches automatically to mono in night conditions
-  **Dual encoding.** Maximum flexibility when streaming video data
-  **In-built pre and post alarm image storage.** On-board storage of alarm images
-  **Analogue video output.** Ideal for assisting in image set-up during installation

Standard Features and Benefits

- **Pan/Tilt/Zoom capability.** Wide coverage of image scene with motorised pan, tilt and zoom functions
- **Image stabilizer.** Reduces image shake
- **DEPA compatible.** Powerful image analytics available
- **PC card expansion slot.** Wide range of expansion accessories available
- **Compact Flash expansion slot.**
- **Privacy masking.** Ideal for masking sensitive areas of the video image
- **Voice alerts.** Voice preset can store pre-recorded warning messages

Dimensions



Specifications

Camera	
Image device	1/4-type Super HAD CCD
Number of total pixels	740,000
Number of effective pixels (HxV)	400,000 (702 x 575)
Electronic shutter	1 to 1/10,000s
Auto gain control (AGC)	Auto/Manual (-3dB to 28dB)
Exposure control	Auto, Shutter-priority, Iris-priority, Manual, EV compensation, Backlight compensation
White balance modes	Auto, Indoor, Outdoor, One-push, WB, ATW, Manual
Lens type	Auto-focus zoom lens
Horizontal viewing angle	1.7° to 42.0°
Focal length	f=3.5 to 91.0mm
F-number	F1.6 (wide), F3.8 (tele)
Minimum object distance	320mm (wide), 1,500mm (tele)
Image	
Image size (H x V) MPEG-4	704 x 576, 640 x 480, 384 x 288, 320 x 240, 160 x 120
Image size (H x V) JPEG	704 x 576, 640 x 480, 384 x 288, 320 x 240, 160 x 120
Image size (H x V) H.264	704 x 576, 640 x 480, 384 x 288, 320 x 240, 160 x 120
MPEG-4 frame rate	25fps (640 x 480)
JPEG frame rate	25fps (640 x 480)
H.264 frame rate	16fps (640 x 480), 25fps (320 x 240)
Audio	
Audio compression	G.711 (64kbps) / G.726 (40, 32, 24, 16kbps)
Network	
Protocols	TCP/IP, HTTP, ARP, ICMP, DHCP, FTP, SMTP, SNMP, RTP/RTCP, SSL (HTTPS), DNS, NTP, RITS
Number of clients	20
Authentication	IEEE802.1X
Interface	
Analogue connectivity	x1 BNC, 1.0Vp-p, 75Ω
Ethernet connectivity	10Base-T/100Base-TX (RJ-45)
I/O port connectivity	Sensor in 2, Alarm out 2
Audio connectivity	External Microphone Input: Mini-jack (monaural, 2.2K 2.5V plug-in power). Line Output: Mini-jack (monaural), max output level: 1Vrms
Analogue video output	
Video system	PAL
Horizontal resolution	450 TV lines
S/N ratio	More than 50dB
Sensitivity colour	2.2lx (50IRE, F1.6, AGC ON),
Sensitivity monochrome	0.3lx (50IRE, F1.6, AGC ON)
General	
Zoom ratio	x26 optical zoom (x312 with digital zoom)
Weight	1.2kg
Dimensions (W x H x D)	140 x 166 x 142mm
Power requirements	DC 12V
Power consumption	20W max.
Operating temperature	0 to 40°C (32 to 104°F)
Storage temperature	-20 to 60°C (-4 to 140°F)
System requirements	
Operating system	Microsoft Windows 2000/XP/Vista®
System requirements	CPU: Intel® Pentium® IV 1.5GHz or higher. RAM: 256MB or more, (Vista) Intel® Pentium® IV 3GHz or higher/Core2 Duo 2GHz or higher, RAM: 1GB or more
Supplied Accessories	
Ceiling-Mount Bracket (A), Ceiling-Mount Bracket (B), Screws x6, Wire Rope, AC Adaptor, AC Cable, CD-ROM (Setup Software), Operation Manual, Installation Manual, Mount Bracket Cover, Shoulder Screw, Plug Retainer, Rubber Feet x4	











SNC-RX530

Intelligent and feature rich – Sony high-performance multi-codec network cameras deliver efficient 24/7 performance.



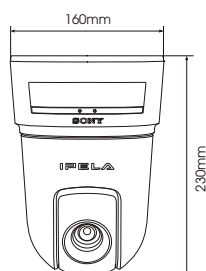
Key Features

-  **1/4-type CCD with Exwave HAD™ technology.** Clear high performance images
-  **Dynamic frame integration.** Reduces motion blur from high speed images
-  **JPEG, MPEG-4 and H.264 streaming.** JPEG, MPEG-4, H.264 encoding allows maximum image transmission flexibility
-  **Day/night function.** Switches automatically to mono in night conditions
-  **Dual encoding.** Maximum flexibility when streaming video data
-  **In-built pre and post alarm image storage.** On-board storage of alarm images
-  **Bi-directional audio with voice alert.** Audio may be transmitted in both directions. Voice preset can store pre-recorded warning messages
-  **Analogue video output.** Ideal for assisting in image set-up during installation

Standard Features and Benefits

- **Pan/Tilt/Zoom capability.** Wide coverage of image scene with motorised pan, tilt and 18x zoom functions
- **Image stabilizer.** Reduces image shake
- **DEPA compatible.** Powerful image analytics available
- **PC card expansion slot.** Wide range of expansion accessories available
- **Memory stick slot.**
- **Privacy masking.** Ideal for masking sensitive areas of the video image
- **Voice alerts.** Voice preset can store pre-recorded warning messages

Dimensions



Specifications










Camera	
Image device	1/4-type Exwave HAD CCD
Number of effective pixels (HxV)	440,000 (752 x 582)
Electronic shutter	1 to 1/10,000s
Auto gain control (AGC)	Auto/Manual (-3dB to +28dB)
Exposure control	Auto (Full auto, Shutter-priority, Iris-priority), Manual, EV compensation, Backlight compensation
White balance modes	Auto, Indoor, Outdoor, One-push, ATW, Manual
Lens type	Auto-focus zoom lens
Horizontal viewing angle	Horizontal 2.2° to 48°
Focal length	f=4.1 to 73.8mm
F-number	F1.4 (wide), F3.0 (tele)
Minimum object distance	290mm (wide), 800mm (tele)
Image	
Image size (H x V) MPEG-4	704 x 576, 640 x 480, 384 x 288, 160 x 120
Image size (H x V) JPEG	704 x 576, 640 x 480, 384 x 288, 160 x 120
Image size (H x V) H.264	704 x 576, 640 x 480, 384 x 288, 160 x 120
MPEG-4 frame rate	25fps (640 x 480)
JPEG frame rate	25fps (640 x 480)
H.264 frame rate	16fps (640 x 480)
Audio	
Audio compression	G.711 (64kbps) / G.726 (40, 32, 24, 16kbps)
Network	
Protocols	TCP/IP, HTTP, ARP, ICMP, DHCP, FTP, SMTP, SNMP, RTP/RTCP, RTSP
Number of clients	20
Authentication	IEEE802.1X
Interface	
Analogue connectivity	BNC x1, 1.0Vp-p, 75Ω
Ethernet connectivity	10Base-T/100Base-TX (RJ-45)
I/O port connectivity	Sensor in 2, Alarm out 2
Audio connectivity	External Microphone Input: Mini-jack (monaural, 2.2K 2.5V plug-in power). Line Output: Mini-jack (monaural), max output level: 1Vrms
Analogue video output	
Video system	PAL
Horizontal resolution	460 TV lines
S/N ratio	More than 50dB
Sensitivity colour	0.7lx (50IRE, F1.4, AGC ON)
Sensitivity monochrome	0.15lx (50IRE, F1.4, AGC ON)
General	
Zoom ratio	x18 optical zoom (x21.6 with digital zoom)
Weight	2.2kg
Dimensions (W x H x D)	160 x 160 x 230mm (Excluding cover equipment)
Power requirements	AC 24V, DC 12V
Power consumption	24W max.
Operating temperature	0 to 50°C (32 to 122°F)
Storage temperature	-20 to 60°C (-4 to 140°F)
System requirements	
Operating system	Microsoft Windows 2000/XP/Vista®
System requirements	CPU: Intel® Pentium® IV 1.5GHz or higher. RAM: 256MB or more, (Vista) Intel® Pentium® IV 3GHz or higher/Core2 Duo 2GHz or higher, RAM: 1GB or more
Supplied Accessories	
	Ceiling-Mount Bracket (A), Ceiling-Mount Bracket (B), Screws x6, Wire Rope, CD-ROM (Setup Software), Operation Manual, Installation Manual

SNC-RX550

Intelligent and feature rich – Sony high-performance multi-codec network cameras deliver efficient 24/7 monitoring.



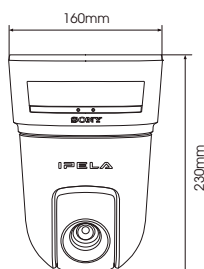
Key Features and Benefits

-  **1/4-type CCD with Exwave HAD™ technology.** Clear high performance images
-  **Dynaview wide dynamic range technology.** Exceptional images even in high contrast scenes
-  **Dynamic frame integration.** Reduces motion blur from high speed images
-  **JPEG, MPEG-4 and H.264 streaming.** JPEG, MPEG-4, H.264 encoding allows maximum image transmission flexibility
-  **Day/night function.** Switches automatically to mono in night conditions
-  **Dual encoding.** Maximum flexibility when streaming video data
-  **In-built pre and post alarm image storage.** On-board storage of alarm images
-  **Bi-directional audio with voice alert.** Audio may be transmitted in both directions. Voice preset can store pre-recorded warning messages
-  **Analogue video output.** Ideal for assisting in image set-up during installation

Standard Features and Benefits

- **Pan/Tilt/Zoom capability.** Wide coverage of image scene with motorised pan, tilt and 36x zoom functions
- **Image stabilizer.** Reduces image shake
- **DEPA compatible.** Powerful image analytics available
- **Memory stick slot**
- **Serial Interface (VISCA)**
- **Privacy masking.** Ideal for masking sensitive areas of the video image
- **Voice alerts.** Voice preset can store pre-recorded warning messages

Dimensions



Specifications

Camera	
Image device	1/4-type Exwave HAD CCD
Number of effective pixels (HxV)	440,000 (752 x 582)
Electronic shutter	1 to 1/10,000s
Auto gain control (AGC)	Auto/Manual (-3dB to +28dB)
Exposure control	Auto, Shutter-priority, Iris-priority, Manual, EV compensation, Backlight compensation
White balance modes	Auto, Indoor, Outdoor, One-push, ATW, Manual
Lens type	Auto-focus zoom lens
Horizontal viewing angle	Horizontal 2.2° to 54.2°
Focal length	f=3.5 to 91.0mm
F-number	F1.6 (wide), F3.8 (tele)
Minimum object distance	320mm (wide), 1,500mm (tele)
Image	
Image size (H x V) MPEG-4	704 x 576, 640 x 480, 384 x 288, 160 x 120
Image size (H x V) JPEG	704 x 576, 640 x 480, 384 x 288, 160 x 120
Image size (H x V) H.264	704 x 576, 640 x 480, 384 x 288, 160 x 120
MPEG-4 frame rate	25fps (640 x 480)
JPEG frame rate	25fps (640 x 480)
H.264 frame rate	16fps (640 x 480), 25fps (320 x 240)
Audio	
Audio compression	G.711 (64kbps) / G.726 (40, 32, 24, 16kbps)
Network	
Protocols	TCP/IP, HTTP, ARP, ICMP, DHCP, FTP, SMTP, SNMP, RTP/RTCP, RTSP
Number of clients	20
Authentication	IEEE802.1X
Interface	
Analogue connectivity	x1 BNC, 1.0Vp-p, 75Ω
Ethernet connectivity	10Base-T/100Base-TX (RJ-45)
I/O port connectivity	Sensor in 2, Alarm out 2
Audio connectivity	External Microphone Input: Mini-jack (monaural, 2.2K 2.5V plug-in power). Line Output: Mini-jack (monaural), max output level: 1Vrms
Analogue video output	
Video system	PAL
Horizontal resolution	460 TV lines
S/N ratio	More than 50dB
Sensitivity colour	1lx at (50IRE, F1.6, AGC ON)
General	
Zoom ratio	x26 optical zoom (x312 with digital zoom)
Weight	2.2kg
Dimensions (W x H x D)	160 x 160 x 230mm (excluding cover equipment)
Power requirements	AC 24V, DC 12V
Power consumption	25W max.
Operating temperature	0 to 50°C (32 to 122°F)
Storage temperature	-20 to 60°C (-4 to 140°F)
System requirements	
Operating system	Microsoft Windows 2000/XP/Vista®
System requirements	CPU: Intel® Pentium® IV 1.5GHz or higher. RAM: 256MB or more, (Vista) Intel® Pentium® IV 3GHz or higher/Core2 Duo 2GHz or higher, RAM: 1GB or more
Supplied Accessories	
	Ceiling-Mount Bracket (A), Ceiling-Mount Bracket (B), Screws x6, Wire Rope, CD-ROM (Setup Software), Operation Manual, Installation Manual

SNC-RX570

The SNC-RX Series has a high-speed 360° endless panning (or rotation) capability, which allows users to capture precisely almost any object surrounding the camera. In addition, by employing a 1/4-type Exwave HAD™ CCD, the camera delivers exceptional picture quality for any remote monitoring application, even in low-light conditions.



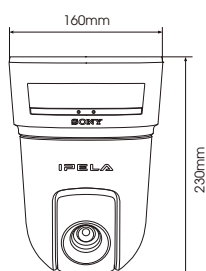
Key Features and Benefits

- 1/4-type CCD with Exwave HAD™ technology.** Clear high performance images
- Dynaview wide dynamic range technology.** Exceptional images even in high contrast scenes
- Dynamic frame integration.** Reduces motion blur from high speed images
- H.264 JPEG, MPEG-4 and H.264 streaming.** JPEG, MPEG-4, H.264 encoding allows maximum image transmission flexibility
- Day/night function.** Switches automatically to mono in night conditions
- Dual encoding.** Maximum flexibility when streaming video data
- In-built pre and post alarm image storage.** On-board storage of alarm images
- Bi-directional audio with voice alert.** Audio may be transmitted in both directions. Voice preset can store pre-recorded warning messages
- Analogue video output.** Ideal for assisting in image set-up during installation

Standard Features and Benefits

- **Pan/Tilt/Zoom capability.** Wide coverage of image scene with motorised pan, tilt and 36x zoom functions
- **Image stabilizer.** Reduces image shake
- **DEPA compatible.** Powerful image analytics available
- **Memory stick slot**
- **Serial Interface (VISCA)**
- **Privacy masking.** Ideal for masking sensitive areas of the video image
- **Voice alerts.** Voice preset can store pre-recorded warning messages

Dimensions



Specifications

Camera	
Image device	1/4-type Exwave HAD CCD
Number of effective pixels (HxV)	440,000 (752 x 582)
Electronic shutter	1 to 1/10,000s
Auto gain control (AGC)	Auto/Manual (-3dB to +28dB)
Exposure control	Auto (Full auto, Shutter-priority, Iris-priority), Manual, EV compensation, Backlight Compensation
White balance modes	Auto, Indoor, Outdoor, One-push, ATW, Manual
Lens type	Auto-focus zoom lens
Horizontal viewing angle	Horizontal 1.7° to 57.8°
Focal length	f=3.4 to 122.4mm
F-number	F1.6 (wide), F4.5 (tele)
Minimum object distance	320mm (wide), 1,500mm (tele)
Image	
Image size (H x V) MPEG-4	704 x 576, 640 x 480, 384 x 288, 160 x 120
Image size (H x V) JPEG	704 x 576, 640 x 480, 384 x 288, 160 x 120
Image size (H x V) H.264	704 x 576, 640 x 480, 384 x 288, 160 x 120
MPEG-4 frame rate	25fps (640 x 480)
JPEG frame rate	25fps (640 x 480)
H.264 frame rate	Max. 16fps
Audio	
Audio compression	G.711 (64kbps) / G.726 (40, 32, 24, 16kbps)
Network	
Protocols	TCP/IP, HTTP, ARP, ICMP, DHCP, FTP, SMTP, SNMP, RTP/RTCP, DNS, RTSP
Number of clients	20
Authentication	IEEE802.1X
Interface	
Analogue connectivity	x1 BNC, 1.0Vp-p, 75Ω
Ethernet connectivity	10Base-T/100Base-TX (RJ-45)
I/O port connectivity	Sensor in 2, Alarm out 2
Audio connectivity	External Microphone Input: Mini-jack (monaural, 2.2K 2.5V plug-in power). Line Output: Mini-jack (monaural), max output level: 1Vrms
Analogue video output	
Video system	PAL
Horizontal resolution	530 TV lines
S/N ratio	More than 50dB
Sensitivity colour	1.4lx (50IRE, F1.6, AGC ON),
Sensitivity monochrome	0.15lx (50IRE, F1.6, AGC ON)
General	
Zoom ratio	x36 optical zoom (x432 with digital zoom)
Weight	2.2kg
Dimensions (W x H x D)	160 x 160 x 230mm (excluding cover equipment)
Power requirements	AC 24V, DC 12V
Power consumption	27W max.
Operating temperature	0 to 50°C (32 to 122°F)
Storage temperature	-20 to 60°C (-4 to 140°F)
System requirements	
Operating system	Microsoft Windows 2000/XP/Vista®
System requirements	CPU: Intel® Pentium® IV 1.5GHz or higher. RAM: 256MB or more, (Vista) Intel® Pentium® IV 3GHz or higher/Core2 Duo 2GHz or higher, RAM: 1GB or more
Supplied Accessories	
	Ceiling-Mount Bracket (A), Ceiling-Mount Bracket (B), Screws x6, Wire Rope, CD-ROM (Setup Software), Operation Manual, Installation Manual

SNC-RH124

The SNC-RH124 indoor rapid dome camera delivers unrivalled image quality at HD resolution.



Key Features and Benefits

HD **HD video at 30 fps.** Superior High Definition image quality with real time capture

XDNR **XDNR noise reduction technology.** Noise and Ghost free images with superior sensitivity in lowlight conditions

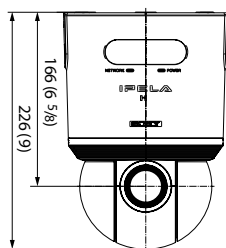
VE **Visibility Enhancer.** Enhanced wide dynamic range improves performance in challenging lighting conditions

DEPA **Advanced analytics.** Advanced, powerful intelligent video analytics deliver enhanced system performance

Standard Features and Benefits

- **210 degree tilt angle.** Greater image capture at high angles of tilt
- **Quick Release Mechanism.** Quick and easy to install and maintain
- **ONVIF Compliant.** Maximum interoperability and flexibility with a wide range of manufacturers' network video products

Dimensions



Specifications

Camera	
Image device	HD CMOS
Day/Night	Yes
Wide-D	No
Number of effective pixels	(H x V) Approx. 2 Megapixel
Electronic shutter speed	1/2 to 1/10,000s
Auto gain control	Auto/Manual (-3dB to +18dB)
Exposure control	Auto, Full auto, Shutter-priority, Iris-priority, Manual, EV compensation, Backlight compensation
White balance mode	Auto, Indoor, Outdoor, One-push WB, Manual
Lens type	Auto-focus zoom lens
Zoom ratio	10x
Horizontal viewing angle	5.4 to 50 degrees
Focal length	f=5.1 to 51mm
F-number	F1.8 (wide), F2.1 (tele)
Pan angle	360 degrees endless rotation
Pan speed	400 degrees/s (max.)
Tilt angle	210 degrees (with e-flip)
Tilt speed	400 degrees/s (max.)
Image	
Codec image size	(H x V) 1280 x 720, 1024 x 576, 800 x 480, 768 x 576, 640 x 480 (VGA), 640 x 368, 384 x 288, 320 x 240 (QVGA), 320 x 192
Video compression format	H.264, MPEG-4, JPEG
Maximum frame rate	H264/MPEG-4: 30 fps (1280 x 720)
JPEG	10 fps (1280 x 720)
Audio	
Audio compression	G.711/G.726
Scene Analytics	
Simple activity detection	No
Intelligent motion detection	Yes (with built-in Post Filter)
Intelligent object detection	No
Network	
Protocols	TCP/IP, ARP, ICMP, HTTP, FTP (client/server), SMTP, DHCP, DNS, NTP, RTP/RTCP, SNMP (MIB-2)
Wireless network	Yes (Optional card)
Number of clients	10
Authentication	IEEE802.1X
Interface	
Ethernet	10BASE-T/100BASE-TX (RJ-45)
Serial interface	RS-232C/RS-422 (PELCO D protocol)
Card slots	CF card x1
Analogue video output	Composite video (1Vp-p)
Sensor input	x 4
Alarm output	x 2
External microphone input	Mini-jack (Monaural), MIC IN/LINE IN: 2.2k ohm, 2.45VDC plug-in power
Audio line output	Mini-jack (Monaural), Max output level: 1 Vrms
Analogue video output	
Signal system	PAL
S/N ratio	more than 50 dB
Sensitivity colour	1.9 (50IRE, AGC ON)
Sensitivity monochrome	0.17 (50IRE, AGC ON)
General	
Weight	Approx. 2.1 kg (4 lb 10 oz)
Dimensions	(ø x H) 154 x 226 mm (6 1/8 x 9 inches)
Power requirements	hPoE, AC24V, DC12V
Power consumption	27 W max
Operating temperature	0 to 50 °C
Storage temperature	-20 to 60 °C
System requirements	
Operating system	Windows XP/Vista®
System requirements	CPU: Intel® Pentium® IV 3GHz, Intel® Core™2 Duo 2GHz or higher, RAM: 1GB or more
Web browser	Microsoft Internet Explorer Ver6.0 or higher
Supplied Accessories	
Base unit, Mounting bracket, Screws, Cables (Power input, BNC, I/O, Serial), Installation manual, CD-ROM (User's guide, SNC toolbox), Mounting template, Wire rope	

SNC-RH164

Ideal for heavy duty, outdoor monitoring applications, the SNC-RH164 rapid dome camera delivers unrivalled image quality at HD resolution.



Key Features and Benefits

HD **HD video at 30 fps.** Superior High Definition image quality with real time capture

XDNR **XDNR noise reduction technology.** Noise and Ghost free images with superior sensitivity in lowlight conditions

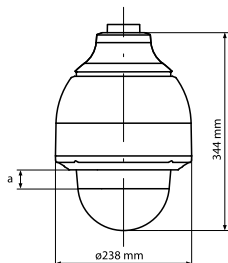
VE **Visibility Enhancer.** Enhanced wide dynamic range improves performance in challenging lighting conditions

DEPA **Advanced analytics.** Advanced, powerful intelligent video analytics deliver enhanced system performance

Standard Features and Benefits

- **IP66 Rated.** Maximum environmental protection for heavy duty outdoor monitoring applications
- **Sunshade Ventilation Mechanism.** Delivering optimum performance in hot weather conditions the camera benefits from a special ventilation mechanism
- **210 degree tilt angle.** Greater image capture at high angles of tilt
- **Quick Release Mechanism.** Quick and easy to install and maintain
- **ONVIF Compliant.** Maximum interoperability and flexibility with a wide range of manufacturers' network video products

Dimensions



Specifications

Camera	
Image device	HD CMOS
Day/Night	Yes
Wide-D	Yes
Number of effective pixels	(H x V) Approx. 2 Megapixel
Electronic shutter speed	1/2 to 1/10,000s
Auto gain control	Auto/Manual (-3 to +18dB)
Exposure control	Auto, Full auto, Shutter-priority, Iris-priority, Manual, EV compensation, Backlight compensation
White balance mode	Auto, Indoor, Outdoor, One-push WB, Manual
Lens type	Auto-focus zoom lens
Zoom ratio	10x
Horizontal viewing angle	5.4 to 50 degrees
Focal length	f=5.1 to 51 mm
F-number	F1.8 (wide), F2.1 (tele)
Pan angle	360 degrees endless rotation
Pan speed	400 degrees/s (max.)
Tilt angle	210 degrees (with e-flip)
Tilt speed	400 degrees/s (max.)
Image	
Codec image size	(H x V) 1280 x 720, 1024 x 576, 800 x 480, 768 x 576, 640 x 480 (VGA), 640 x 368, 384 x 288, 320 x 240 (QVGA), 320 x 192
Video compression format	H.264, MPEG-4, JPEG
Maximum frame rate	H264/MPEG-4: 30 fps (1280 x 720)
JPEG	10 fps (1280 x 720)
Audio	
Audio compression	G.711/G.726
Scene Analytics	
Simple activity detection	No
Intelligent motion detection	Yes (with built-in Post Filter)
Intelligent object detection	No
Network	
Protocols	TCP/IP, ARP, ICMP, HTTP, FTP (client/server), SMTP, DHCP, DNS, NTP, RTP/RTCP, SNMP (MIB-2) (Tentative)
Wireless network	Yes (With Optional card)
Number of clients	10
Authentication	IEEE802.1X
Interface	
Ethernet	10BASE-T/100BASE-TX (RJ-45)
Serial interface	RS-232C/RS-422 (PELCO D protocol)
Card slots	CF card x1
Analogue video output	Composite video (1Vp-p)
Sensor input	x 4
Alarm output	x 2
External microphone input	Mini-jack (Monaural), MIC IN/LINE IN: 2.2k ohm, 2.45VDC plug-in power
Audio line output	Mini-jack (Monaural), Max output level: 1 Vrms
Analogue video output	
Signal system	PAL
S/N ratio	more than 50 dB
Sensitivity colour	2.1 (50IRE, AGC ON)
Sensitivity monochrome	0.19 (50IRE, AGC ON)
General	
Weight	Approx. 4.5 kg (9 lb 15 oz)
Dimensions	(ø x H) 238 x 346 mm (9 3/8 x 13 5/8 inches)
Power requirements	AC24V
Power consumption	82 W max. (Tentative)
Operating temperature	-40 to 50 °C
Storage temperature	-20 to 60 °C
System requirements	
Operating system	Windows XP/Vista®
System requirements	CPU: Intel® Pentium® IV 3GHz, Intel® Core™2 Duo 2GHz or higher, RAM: 1GB or more
Web browser	Microsoft Internet Explorer Ver6.0 or higher
Supplied Accessories	
Base unit, Top sunshade, Rotate-and-lock coupling, Waterproof plug, Screws, Installation manual, CD-ROM (User's guide, SNC toolbox), Wire rope	



SNC-RS44P

The SNC-RS44P indoor rapid dome camera delivers high image quality coupled feature-rich performance.



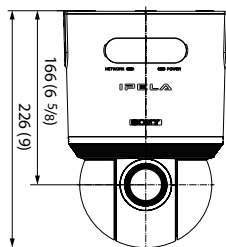
Key Features and Benefits

- 1/4" CCD with Exwave HAD™ technology.** Superior image quality with extended infra red response
- XDNR noise reduction technology.** Noise and Ghost free images with superior sensitivity in lowlight conditions
- VE Visibility Enhancer.** Enhanced wide dynamic range improves performance in challenging lighting conditions
- DEPA Advanced analytics.** Advanced, powerful intelligent video analytics deliver enhanced system performance

Standard Features and Benefits

- 18 x optical zoom.** Powerful optical zoom capability delivers flexible image capture and tracking
- 210 degree tilt angle.** Greater image capture at high angles of tilt
- Quick Release Mechanism.** Quick and easy to install and maintain
- ONVIF Compliant.** Maximum interoperability and flexibility with a wide range of manufacturers' network video products

Dimensions



Specifications

Camera	
Image device	1/4-type CCD with Exwave HAD technology
Day/Night	Yes
Wide-D	Yes
Number of effective pixels	(H x V) 440,000
Electronic shutter speed	1/2 to 1/10,000s
Auto gain control	Auto/Manual (-3dB to +28dB)
Exposure control	Auto, Full auto, Shutter-priority, Iris-priority, Manual, EV compensation, Backlight compensation
White balance mode	Auto, Indoor, Outdoor, One-push WB, ATW, Manual
Lens type	Auto-focus zoom lens
Zoom ratio	18x
Horizontal viewing angle	2.8 to 48 degrees
Focal length	f=4.1 to 73.8mm
F-number	F1.4 (wide), F3.0 (tele)
Pan angle	360 degrees endless rotation
Pan speed	400 degrees/s (max.)
Tilt angle	210 degrees (with e-flip)
Tilt speed	400 degrees/s (max.)
Image	
Codec image size	(H x V) 720 x 576, 640 x 480 (VGA), 384 x 288, 320 x 240 (QVGA)
Video compression format	H.264, MPEG-4, JPEG
Maximum frame rate	H264/MPEG-4/JPEG, 25 fps (720 x 576)
Audio	
Audio compression	G.711/G.726
Scene Analytics	
Simple activity detection	No
Intelligent motion detection	Yes (with built-in Post Filter)
Intelligent object detection	No
Network	
Protocols	TCP/IP, ARP, ICMP, HTTP, FTP (client/server), SMTP, DHCP, DNS, NTP, RTP/RTCP, SNMP (MIB-2)
Wireless network	Yes (Optional card)
Number of clients	10 (Tentative)
Authentication	IEEE802.1X
Interface	
Ethernet	10BASE-T/100BASE-TX (RJ-45)
Serial interface	RS-232C/RS-422 (PELCO D protocol) (Tentative)
Card slots	CF card x1
Analogue video output	Composite video (1Vp-p)
Sensor input	x 4
Alarm output	x 2
External microphone input	Mini-jack (Monaural), MIC IN/LINE IN: 2.2k ohm, 2.45VDC plug-in power
Audio line output	Mini-jack (Monaural), Max output level: 1 Vrms
Analogue video output	
Signal system	PAL
Horizontal resolution	530 TV lines
S/N ratio	more than 50 dB
Sensitivity colour	0.4 (50IRE, AGC ON)
Sensitivity monochrome	0.08 (50IRE, AGC ON)
General	
Weight	Approx. 2.1 kg (4 lb 10 oz)
Dimensions	(ø x H) 154 x 226 mm (6 1/8 x 9 inches)
Power requirements	hPoE, AC24V, DC12V
Power consumption	25 W max.
Operating temperature	0 to 50 °C
Storage temperature	-20 to 60 °C
System requirements	
Operating system	Windows XP/Vista®
System requirements	CPU: Intel® Pentium® IV 3GHz, Intel® Core™2 Duo 2GHz or higher, RAM: 1GB or more
Web browser	Microsoft Internet Explorer Ver6.0 or higher
Supplied Accessories	
Base unit, Mounting bracket, Screws, Cables (Power input, BNC, I/O, Serial), Installation manual, CD-ROM (User's guide, SNC toolbox), Mounting template, Wire rope	

SNC-RS46P

The SNC-RS46P indoor rapid dome camera delivers high image quality and feature-rich performance with an enhanced optical zoom range capability.



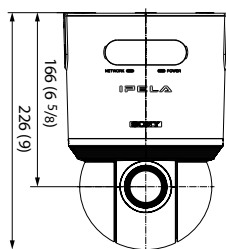
Key Features and Benefits

- 1/4" CCD with Exwave HAD™ technology.** Superior image quality with extended infra red response
- XDNR noise reduction technology.** Noise and Ghost free images with superior sensitivity in lowlight conditions
- VE Visibility Enhancer.** Enhanced wide dynamic range improves performance in challenging lighting conditions
- DEPA Advanced analytics.** Advanced, powerful intelligent video analytics deliver enhanced system performance

Standard Features and Benefits

- 36 x optical zoom.** Powerful optical zoom capability delivers flexible image capture and tracking
- 210 degree tilt angle.** Greater image capture at high angles of tilt
- Quick Release Mechanism.** Quick and easy to install and maintain
- ONVIF Compliant.** Maximum interoperability and flexibility with a wide range of manufacturers' network video products

Dimensions



Specifications

Camera	
Image device	1/4-type CCD with Exwave HAD technology
Day/Night	Yes
Wide-D	Yes
Number of effective pixels	(H x V) 440,000
Electronic shutter speed	1 to 1/10,000s
Auto gain control	Auto/Manual (-3dB to +28dB)
Exposure control	Auto, Full auto, Shutter-priority, Iris-priority, Manual, EV compensation, Backlight compensation
White balance mode	Auto, Indoor, Outdoor, One-push WB, ATW, Manual
Lens type	Auto-focus zoom lens
Zoom ratio	36x
Horizontal viewing angle	1.7 to 57.8 degrees
Focal length	f=3.4 to 122.4mm
F-number	F1.6 (wide), F4.5 (tele)
Pan angle	360 degrees endless rotation
Pan speed	400 degrees/s (max.)
Tilt angle	210 degrees (with e-flip)
Tilt speed	400 degrees/s (max.)
Image	
Codec image size	(H x V) 720 x 576, 640 x 480 (VGA), 384 x 288, 320 x 240 (QVGA)
Video compression format	H.264, MPEG-4, JPEG
Maximum frame rate	H264/MPEG-4/JPEG, 25 fps (720 x 576)
Audio	
Audio compression	G.711/G.726
Scene Analytics	
Simple activity detection	No
Intelligent motion detection	Yes (with built-in Post Filter)
Intelligent object detection	No
Network	
Protocols	TCP/IP, ARP, ICMP, HTTP, FTP (client/server), SMTP, DHCP, DNS, NTP, RTP/RTCP, SNMP (MIB-2)
Wireless network	Yes (Optional card)
Number of clients	10 (tentative)
Authentication	IEEE802.1X
Interface	
Ethernet	10BASE-T/100BASE-TX (RJ-45)
Serial interface	RS-232C/RS-422 (PELCO D protocol) (tentative)
Card slots	CF card x1
Analogue video output	Composite video (1Vp-p)
Sensor input	x 4
Alarm output	x 2
External microphone input	Mini-jack (Monaural), MIC IN/LINE IN: 2.2k ohm, 2.45VDC plug-in power
Audio line output	Mini-jack (Monaural), Max output level: 1 Vrms
Analogue video output	
Signal system	PAL
Horizontal resolution	530 TV lines
S/N ratio	more than 50 dB
Sensitivity colour	0.7 (50IRE, AGC ON)
Sensitivity monochrome	0.08 (50IRE, AGC ON)
General	
Weight	Approx. 2.1 kg (4 lb 10 oz)
Dimensions	(ø x H) 154 x 226 mm (6 1/8 x 9 inches)
Power requirements	hPoE, AC24V, DC12V
Power consumption	25 W max.
Operating temperature	0 to 50 °C
Storage temperature	-20 to 60 °C
System requirements	
Operating system	Windows XP/Vista®
System requirements	CPU: Intel® Pentium® IV 3GHz, Intel® Core™2 Duo 2GHz or higher, RAM: 1GB or more
Web browser	Microsoft Internet Explorer Ver6.0 or higher
Supplied Accessories	
Base unit, Mounting bracket, Screws, Cables (Power input, BNC, I/O, Serial), Installation manual, CD-ROM (User's guide, SNC toolbox), Mounting template, Wire rope	

SNC-RS84P

Ideal for outdoor, heavy duty monitoring applications, the SNC-RS84P rapid dome camera delivers high image quality coupled with feature-rich performance.



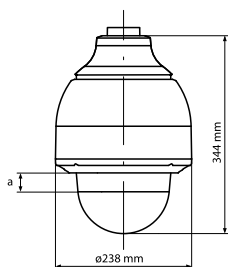
Key Features and Benefits

- 1/4" CCD with Exwave HAD™ technology.** Superior image quality with extended infra red response
- XDNR noise reduction technology.** Noise and Ghost free images with superior sensitivity in lowlight conditions
- VE Visibility Enhancer.** Enhanced wide dynamic range improves performance in challenging lighting conditions
- DEPA Advanced analytics.** Advanced, powerful intelligent video analytics deliver enhanced system performance

Standard Features and Benefits

- 18 x optical zoom.** Powerful optical zoom capability delivers flexible image capture and tracking
- IP66 Rated.** Maximum environmental protection for heavy duty outdoor monitoring applications
- 210 degree tilt angle.** Greater image capture at high angles of tilt
- Quick Release Mechanism.** Quick and easy to install and maintain
- ONVIF Compliant.** Maximum interoperability and flexibility with a wide range of manufacturers' network video products

Dimensions



Specifications

Camera	
Image device	1/4-type CCD with Exwave HAD technology
Day/Night	Yes
Wide-D	Yes
Number of effective pixels	(H x V) 440,000
Electronic shutter speed	1 to 1/10,000s
Auto gain control	Auto/Manual (-3 to +28dB)
Exposure control	Auto, Full auto, Shutter-priority, Iris-priority, Manual, EV compensation, Backlight compensation
White balance mode	Auto, Indoor, Outdoor, One-push WB, ATW, Manual
Lens type	Auto-focus zoom lens
Zoom ratio	18x
Horizontal viewing angle	2.8 to 48 degrees
Focal length	f=4.1 to 73.8mm
F-number	F1.4 (wide), F3.0 (tele)
Pan angle	360 degrees endless rotation
Pan speed	400 degrees/s (max.)
Tilt angle	210 degrees (with e-flip)
Tilt speed	400 degrees/s (max.)
Image	
Codec image size	(H x V) 720 x 576, 640 x 480 (VGA), 384 x 288, 320 x 240 (QVGA)
Video compression format	H.264, MPEG-4, JPEG
Maximum frame rate	H264/MPEG-4/JPEG, 25 fps (720 x 576)
Audio	
Audio compression	G.711/G.726
Scene Analytics	
Simple activity detection	No
Intelligent motion detection	Yes (with built-in Post Filter)
Intelligent object detection	No
Network	
Protocols	TCP/IP, ARP, ICMP, HTTP, FTP (client/server), SMTP, DHCP, DNS, NTP, RTP/RTCP, SNMP (MIB-2)
Wireless network	Yes (Optional card)
Number of clients	10 (tentative)
Authentication	IEEE802.1X
Interface	
Ethernet	10BASE-T/100BASE-TX (RJ-45)
Serial interface	RS-232C/RS-422 (PELCO D protocol) (tentative)
Card slots	CF card x1
Analogue video output	Composite video (1Vp-p)
Sensor input	x 4
Alarm output	x 2
External microphone input	Mini-jack (Monaural), MIC IN/LINE IN: 2.2k ohm, 2.45VDC plug-in power
Audio line output	Mini-jack (Monaural), Max output level: 1 Vrms
Analogue video output	
Signal system	PAL
Horizontal resolution	530 TV lines
S/N ratio	more than 50 dB
Sensitivity colour	0.4 (50IRE, AGC ON)
Sensitivity monochrome	0.09 (50IRE, AGC ON)
General	
Weight	Approx. 4.5 kg (9 lb 15 oz)
Dimensions	(ø x H) 238 x 346 mm (9 3/8 x 15 5/8 inches)
Power requirements	AC24V
Power consumption	80 W max.
Operating temperature	-40 to 50 °C
Storage temperature	-20 to 60 °C
System requirements	
Operating system	Windows XP/Vista®
System requirements	CPU: Intel® Pentium® IV 3GHz, Intel® Core™2 Duo 2GHz or higher, RAM: 1GB or more
Web browser	Microsoft Internet Explorer Ver6.0 or higher
Supplied Accessories	
Base unit, Top Sunshade, rotate and lock coupling, Waterproof plug, Screws, Cables (Power input, BNC, I/O, Serial), Installation manual, CD-ROM (User's guide, SNC toolbox), Wire rope	

SNC-RS86P

Ideal for outdoor, heavy duty monitoring applications, the SNC-RS86P rapid dome camera delivers high image quality and feature-rich performance with an enhanced optical zoom range capability.



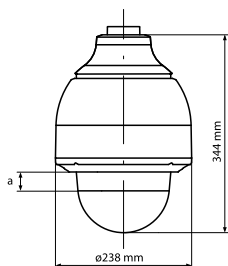
Key Features and Benefits

- 1/4" CCD with Exwave HAD™ technology.** Superior image quality with extended infra red response
- XDNR noise reduction technology.** Noise and Ghost free images with superior sensitivity in lowlight conditions
- VE Visibility Enhancer.** Enhanced wide dynamic range improves performance in challenging lighting conditions
- DEPA Advanced analytics.** Advanced, powerful intelligent video analytics deliver enhanced system performance

Standard Features and Benefits

- 36 x optical zoom.** Powerful optical zoom capability delivers flexible image capture and tracking
- IP66 Rated.** Maximum environmental protection for heavy duty outdoor monitoring applications
- 210 degree tilt angle.** Greater image capture at high angles of tilt
- Quick Release Mechanism.** Quick and easy to install and maintain
- ONVIF Compliant.** Maximum interoperability and flexibility with a wide range of manufacturers' network video products

Dimensions



Specifications

Camera	
Image device	1/4-type CCD with Exwave HAD technology
Day/Night	Yes
Wide-D	Yes
Number of effective pixels	(H x V) 440,000
Electronic shutter speed	1 to 1/10,000s
Auto gain control	Auto/Manual (-3dB to +28dB)
Exposure control	Auto, Full auto, Shutter-priority, Iris-priority, Manual, EV compensation, Backlight compensation
White balance mode	Auto, Indoor, Outdoor, One-push WB, ATW, Manual
Lens type	Auto-focus zoom lens
Zoom ratio	36x
Horizontal viewing angle	2.8 to 48.0 degrees
Focal length	f=4.1 to 73.8mm
F-number	F1.4 (wide), F3.0 (tele)
Pan angle	360 degrees endless rotation
Pan speed	400 degrees/s (max.)
Tilt angle	210 degrees (with e-flip)
Tilt speed	400 degrees/s (max.)
Image	
Codec image size	(H x V) 720 x 576, 640 x 480 (VGA), 384 x 288, 320 x 240 (QVGA)
Video compression format	H.264, MPEG-4, JPEG
Maximum frame rate	H264/MPEG-4/JPEG, 25 fps (720 x 576)
Audio	
Audio compression	G.711/G.726
Scene Analytics	
Simple activity detection	No
Intelligent motion detection	Yes (with built-in Post Filter)
Intelligent object detection	No
Network	
Protocols	TCP/IP, ARP, ICMP, HTTP, FTP (client/server), SMTP, DHCP, DNS, NTP, RTP/RTCP, SNMP (MIB-2)
Wireless network	Yes (Optional card)
Number of clients	10 (tentative)
Authentication	IEEE802.1X
Interface	
Ethernet	10BASE-T/100BASE-TX (RJ-45)
Serial interface	RS-232C/RS-422 (PELCO D protocol) (tentative)
Card slots	CF card x1
Analogue video output	Composite video (1Vp-p)
Sensor input	x 4
Alarm output	x 2
External microphone input	Mini-jack (Monaural), MIC IN/LINE IN: 2.2k ohm, 2.45VDC plug-in power
Audio line output	Mini-jack (Monaural), Max output level: 1 Vrms
Analogue video output	
Signal system	PAL
Horizontal resolution	530 TV lines
S/N ratio	more than 50 dB
Sensitivity colour	0.8 (50IRE, AGC ON)
Sensitivity monochrome	0.09 (50IRE, AGC ON)
General	
Weight	Approx. 4.5 kg (9 lb 15 oz)
Dimensions	(ø x H) 238 x 346 mm (9 3/8 x 15 5/8 inches)
Power requirements	AC24V
Power consumption	80 W max.
Operating temperature	-40 to 50 °C
Storage temperature	-20 to 60 °C
System requirements	
Operating system	Windows XP/Vista®
System requirements	CPU: Intel® Pentium® IV 3GHz, Intel® Core™2 Duo 2GHz or higher, RAM: 1GB or more
Web browser	Microsoft Internet Explorer Ver6.0 or higher
Supplied Accessories	
Base unit, Top Sunshade, rotate and lock coupling, Waterproof plug, Screws, Cables (Power input, BNC, I/O, Serial), Installation manual, CD-ROM (User's guide, SNC toolbox), Wire rope	



SNT-EX/EP Series

Offering single channel, four channel and highly flexible and scalable blade solutions, the SONY SNT-EX/EP series delivers a unique encoding concept which adds significant value and performance advantages not previously available to traditional analogue camera systems. By simply adding SNT-EX/EP encoders to an existing analogue system, users can immediately benefit from Sony's unique image-enhancing and advanced analytics technology. Converting analogue video signals into digital video streams for transmission via IP-based networks, the SNT-EX/EP encoders offer unrivalled network flexibility coupled with D1 resolution support.



Key Features

- D1 resolution support
- XDNR noise reduction technology
- Visibility Enhancer
- DFI (Dynamic Frame Integration)
- DEPA Advanced analytics
- Triple codec support
- Advanced audio detection
- Voice alert
- Versatile telemetry interface
- External storage solutions
- Onvif support

Benefits

- Delivers the highest possible image quality
- Existing analogue cameras benefit from noise and ghost-free images with superior sensitivity in lowlight conditions
- Enhanced wide dynamic range improves performance for existing analogue cameras in challenging lighting conditions
- Produces superior images from dynamic scenes containing both still and moving objects
- Advanced, powerful intelligent video analytics deliver enhanced system performance to existing analogue systems
- Delivers flexible image compression formats to overcome bandwidth limitations. The encoders generate JPEG/MPEG and H.264 images at 30FPS.
- Monitors and stores ambient audio levels to deliver highly accurate audio alarm triggering
- Stores up to three pre-recorded messages which may be replayed via manual or alarm activation
- Flexible support for third-party telemetry cameras via RS-422, RS-485 and Coaxitron interfaces
- Continuous, pre-and post-event recording may be stored using USB memory devices
- Maximum interoperability and flexibility with a wide range of manufacturers' network video products

Peripherals



SNT-RS3U

3U rack station, houses up to 12 SNT-EX/EP154 blade encoders to provide a maximum of 48 analogue input channels

Optional Accessories



SNTA-RP1

Rack station power supply unit, provides a redundant power supply system for the SNT-RS3U

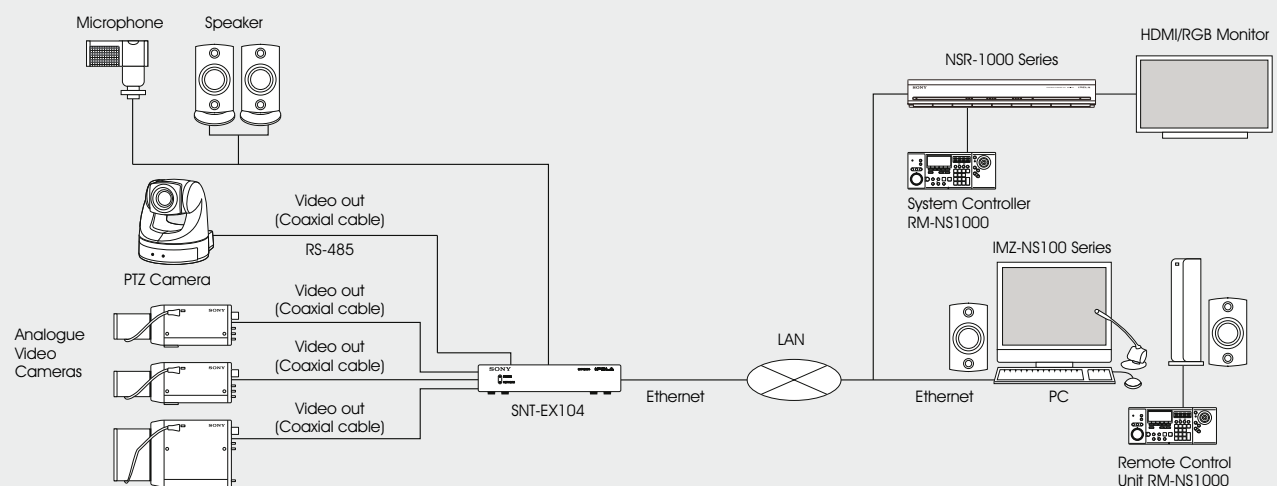


SNT-RS1U

3U rack station, houses up to 4 SNT-EX154/EP154 blade encoders to provide a maximum of 16 analogue input channels.

Configurations

System Configuration



Sony's unique XDNR (eXcellent Dynamic Noise Reduction), VE (Visibility Enhancer), DFI (Dynamic Frame Integration) technology and DEPA Advanced (Distributed Enhanced Processing Architecture), combine with RS-485 and Coaxitron telemetry options to deliver superior image quality, powerful video and audio analytics and advanced telemetry support to existing analogue systems. Delivering advanced features, superior image quality from existing analogue video signals and the significant benefits of intelligent video and audio analytics, the SONY SNT-EX/EP series encoders are the obvious choice when migrating from an existing analogue system, to an IP based surveillance solution.

Specifications

	SNT-EX101	SNT-EX101E	SNT-EX104	SNT-EP104	SNT-EX154	SNT-EP154
Encoder Features						
Visibility enhancer	Yes					
XDNR	Yes					
Coaxitron control	Yes			No	Yes	No
Interface						
Analogue video input	x1		x4			
Composite buffered throughout	x1		–			
Ethernet	10Base-T/100Base-TX (RJ-45)					
Serial interface	RS-422/RS-485		RS-485	–	RS-485	–
USB Memory slots	x1		x4	–		
Sensor input	x2		x4	–	x4	–
Alarm output	x2		x4	–	x4	–
Audio interface (IN/OUT)	IN x1, OUT x1		IN x4, OUT x4		IN x1, OUT x1	–
External microphone input	Mini-jack (monaural), MIC IN/LINE IN: over 2.2kohm, 2.45VDC plug-in power			–	Mini-jack (monaural), MIC IN/LINE IN: over 2.2kohm, 2.45VDC plug-in power	–
Audio line output	Mini-jack (monaural), Max output level: 1.5Vp-p			–	Mini-jack (monaural), Max output level: 1.5Vp-p	–
Image						
Codec image size (HxV)	D1 (NTSC: 720 x 480, PAL: 720 x 576), VGA (640 x 480), CIF (384 x 288), QVGA (320 x 240)					
Video compression format	H.264, MPEG-4, JPEG					
Maximum frame rate	H264/MPEG-4/JPEG: 30 fps (NTSC: 720 x 480, PAL: 720 x 576)					
Audio						
Audio compression	G.711/G.726		G.711/G.726			
Scene Analytics						
Intelligent motion detection	Yes (with built-in Post Filter)			No	Yes (with built-in Post Filter)	No
Motion detection	No			Yes	No	Yes
Advanced audio detection	Yes			No	Yes	No
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 clients	10					
Authentication	IEEE802.1X					
Number of IP address/Mac address	x1		x4			
General						
Weight	Approx. 0.4kg (14 oz)		Approx. 1.4kg (2 lb 3 oz)	Approx. 1.3kg (2 lb 3 oz)	Approx. 0.4kg (14 oz)	
Dimensions (W x H x D)	73 x 34 x 155 mm 2 7/8 x 1 3/8 x 6 1/8 inches		210 x 44 x 250 mm 8 3/8 x 1 3/4 x 9 7/8 inches		78 x 34 x 382 mm 3 1/8 x 1 3/8 x 15 1/8 inches	
Power requirements	AC 24V (In ±20%, Out)	PoE (802.af)	DC 12V		From Rack Station	
Power consumption	9.6W max.		14.4W max.	12W max.		
Operating temperature	0 to 50°C		0 to 45°C			
Storage temperature	-20 to 60°C					
System requirements						
Operating system	Microsoft Windows Vista®					
Processor	Intel® Core™2 Duo, 1.8GHz or higher.					
Memory	1GB or more					
Web browser	Microsoft Internet Explorer Ver. 6.0, Ver. 7.0					
Supplied Accessories						
	CD-ROM (User's Guide and supplied programs) (1), Installation Manual (1), B&P Warranty Booklet (1), I/O port connector (1), 24V AC connector (1), Attachment brackets (4), Attachment screws (8)		CD-ROM (User's Guide and supplied programs) (1), Installation Manual (1), B&P Warranty Booklet (1), AC adaptor (AC-NB 12A) (1), Power cord (1), I/O port connector (SNT-EX104 only) (1)		Installation Manual (1), B&P Warranty Booklet (1), I/O port connector (Only SNT-EX154) (1), Attachment screws (2)	

IMZ-NS100 Series

Real Shot Manager Advanced: simple, flexible, powerful and scalable – HD-ready Intelligent Monitoring Software from Sony Professional.



Key Features

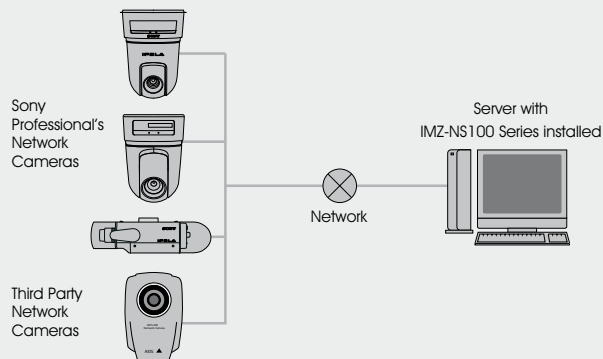
- Easy to use and understand graphical user interface
- Automatic camera registration
- Simple yet powerful recording capabilities
- Advance image search functions
- Hot spot monitoring function
- Flexible custom screen layouts
- Totally scalable with multiple camera options
- Open platform

Benefits

- Minimal operator training required
- Quick and easy set up of Sony IP cameras
- Manual, event and scheduled recording available
- Locate required images quickly and easily
- Provides detailed view for area of interest
- Allows user defined graphical interface options
- System expansion to meet your requirement via IMZ-NS101, NS104, NS109 and NS116, 1, 4, 9 and 32 channels options
- Powerful system flexibility via support of third-party IP cameras

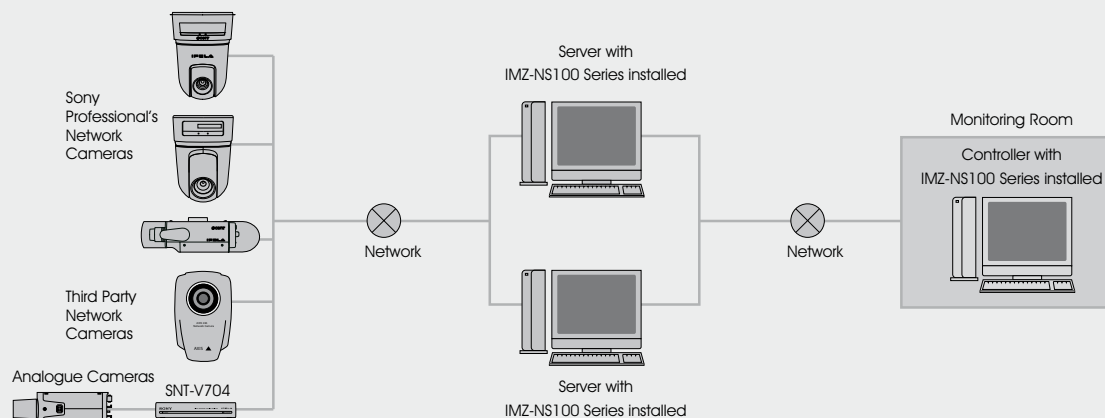
Configurations

Standalone Configuration



	RSM Lite	RSM AD
Support device	Sony IP camera / Encoder	Open platform
Max ch number	9	Unlimited
Max client number	3	20
Master / Slave structure (Multiple servers connection from client)	No	Yes
VMD (Recorder)	No	Yes
Object Search	No	Yes
DEPA (VMF)	No	Yes
Manual Action	No	Yes

Client-Server Configuration





Post VMD Search



VMF Search

Specifications

System Requirements		
Operating system ^{*1}	Windows 7 Professional (32bit or 64bit) Windows 7 Enterprise (32bit or 64bit) Windows Vista Business Service Pack 2 (32bit only) Windows Vista Enterprise Service Pack 2 (32bit only) Windows XP Professional Service Pack 3 (32bit only) Windows Server 2003 Service Pack 2 (32bit only) Windows Server 2008 R2 Standard Edition (32bit or 64bit)	
CPU	Intel® Core™ 2Duo 2.0-GHz or higher	
Main memory	1 GB or more	
HDD 2	10GB spare capacity (or more depending on the video that is to be stored)	
Video card	1024 x 768, 16/24 bit colour	
Network interface card (NIC)	100BASE-TX or higher	
Display (Resolution)	1024 x 768 or higher	
Specifications	Server	Client
Video compression	JPEG/MPEG-4	JPEG/MPEG-4
Audio compression	G711/G726	G711/G726
Number of cameras to be connected ^{*2}	32	—
Number of clients to be connected ^{*3}	10	—
Maximum number of layouts	100	100
Maximum number of users	100	100
Maximum number of servers to a client ^{*4}	—	64

^{*1} x 64 edition is not supported.

^{*2} This is a recommended value to assure high performance. It is technically possible to connect more than 32 units by installing on the PC a corresponding number of licences. Display/recording performance basically depends on PC performance, but an increase in cameras may deteriorate overall performance.

^{*3} This is a recommended value to assure high performance. It is technically possible to connect more than 10 clients, but this increase may deteriorate overall performance.

^{*4} This is a recommended value to assure high performance. It is technically possible to connect more than 64 servers, but this increase may deteriorate overall performance.

Easy-to-use monitoring functions



Double-clicking a Frame

Hot spot monitoring/Dual monitor support



Monitor 1

Monitor 2 (Hot spot)

RSM Advanced Series software packages

IMZ-NS101

Control PC software for one networked video source.

IMZ-NS104

Control PC software for up to four networked video sources.

IMZ-NS109

Control PC software for up to nine networked video sources.

IMZ-NS116

Control PC software for up to 16 networked video sources.

IMZ-NS132

Control PC software for up to 32 networked video sources images to be searched quickly.

RSM Lite

Free of charge monitoring software provided with all Sony IP products. Control PC software for up to 9 cameras. Please see RSM Advanced vs RSM Lite table for more information.

NSR-1000 Series

The NSR 1000 series offers a highly scalable range of hybrid network recording solutions. Simplified operation and set up coupled with an open platform offers the maximum in flexibility and ease of use.

Key Features

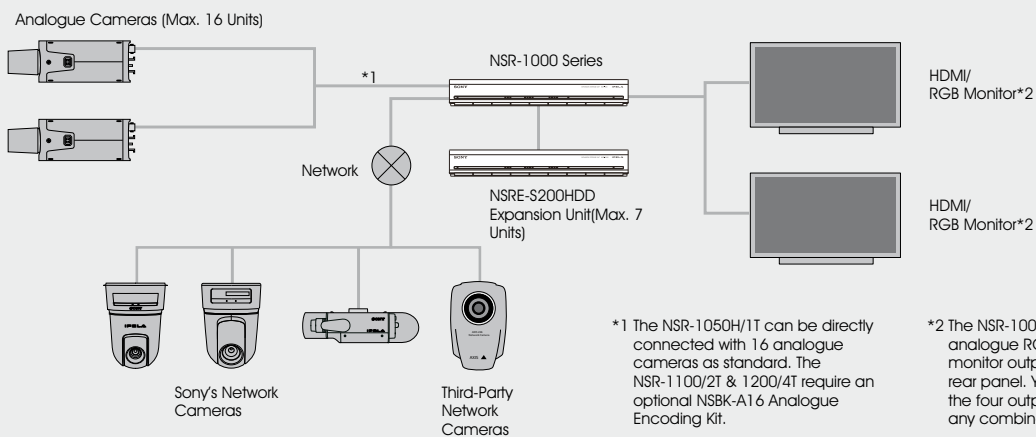
- MPEG-4/JPEG dual stream
- DEPA compatible
- HDMI outputs
- Additional storage of 2TB x 7
- Remote viewing by controller software
- IMZ-NS100 Series compatible
- Flexible hybrid connectivity and recording

Benefits

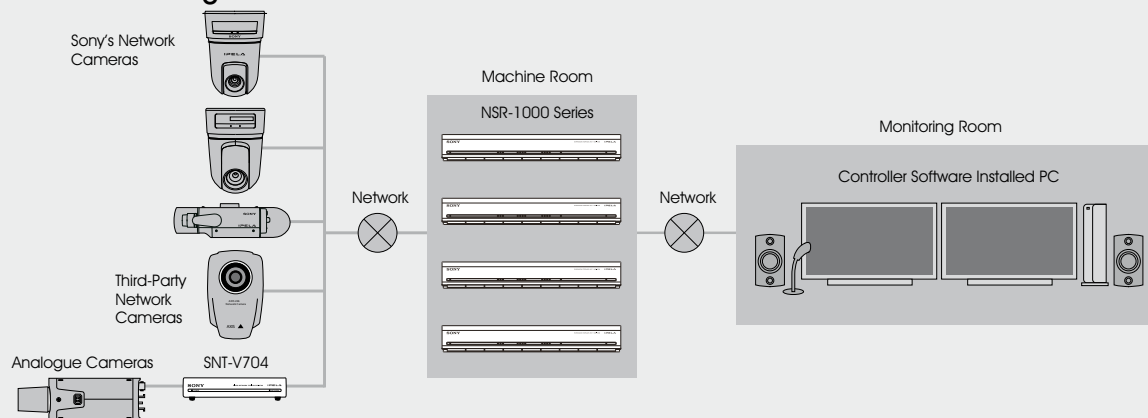
- View images in full HD, when using Sony megapixel cameras
- Capable of encoding dual streams simultaneously
- Advanced video analytics capability
- Up to 11TB of additional storage in raid 5 mode. Optional NSRE-S200/4T storage accessories will be required
- Remote control and viewing via bundled software
- Capability of remote control of network cameras and NSR1000 via IMZ-NS100 series software
- Can record and display both analogue and IP cameras offering the maximum in flexibility and migration capability

Configurations

Standalone Configuration



Client-Server Configuration





Specifications

Video/Recording		NSR-1200/4T	NSR-1100/2T	NSR-1050H/1T
Number of Cameras Supported (IP/Analogue Total)		Max. 64	Max. 32	Max. 20
Analogue Camera Input		Option (NSBK-A16)		16ch Video Input/ 4ch Audio Input (Supplied Cable)
Video Compression (IP-Camera)		H.264/MPEG-4/JPEG		
Video Compression (Analogue-Camera)		MPEG-4		MPEG-4
Maximum Recording Rate		480fps	240fps	120fps
Hard Disk Drives (Physical Capacity)		4TB (1TB x 4)	2TB (1TB x 2)	1TB (1TB x 1)
Hard Disk Drives (RAID Level)		RAID 5	RAID 0	—
Hard Disk Drives (Recording Capacity)		3684GB	1817GB	908GB
Expansion Storage		Supports NSRE-S200/4T (4000GB) (Max. 7 Units)		
Video Interface				
Monitor Out #1 (HDMI or Analogue)	HDMI Output	HDMI (A-type) x1		
	Analogue RGB Output	D-sub 15pin x1 (Front) or D-sub 15pin x1 (Rear) *2		
Monitor Out #2 (HDMI or Analogue)	HDMI Output	HDMI (A-type) x1		
	Analogue RGB Output	D-sub 15pin x1		
Audio Interface				
Line Out		RCA-pin, L/R x1 stereo pair		
Sensor/Alarm				
Sensor In		8-channel photo-coupler (DC3.3-24V)		
Alarm Out		8-channel relay (Max. 24V 1A)		

Other Interfaces	NSR-1200/4T NSR-1100/2T NSR-1050H/1T		
Ethernet *1	1000Base-T/100Base-TX/10Base-T x4 (Auto switching)		
USB 2.0	x3 (Front), x3 (Rear)		
Serial Interface (for UPS)	RS-232C x1		
Serial Interface (for Analogue Camera Control)	RS-232C x1, RS-422/485 x1 (Either one to be selected)		
SAS 1.1 (Serial Attached SCSI)	SFF-8088 type x1		
General			
Dimensions (W x H x D)	430mm x 87mm x 417mm (17 x 3 1/2 x 16 1/2 inches) (exclusive projections)		
Mass	Approx. 13.5kg (29lb 12oz)	Approx. 12kg (26lb 7oz)	Approx. 11.5kg (25lb 6oz)
Power Requirements	100V to 127V/200V to 240V AC (50/60Hz)		
Power Consumption	265W (typical)	185W (typical)	175W (typical)
Operating Temperature	5 to 40°C (41 to 104°F)		
Operating Humidity	10 to 80% (Max. wet-bulb temperature 30°C, non-condensing)		
Supplied Accessories	Analogue Camera Cable x1 (NSR-1050H/1T Only), Front panel key x2, Rubber Feet x4, Recovery CD x1, Manual/Tool/Source Codes CD x1		
Supported Languages	English, German, French, Spanish, Italian, Chinese, Japanese, Russian.		

*1 Port #1 to #3 can be used as ordinary LAN ports. Port #4 cannot be used alone. Channel Bond is supported by #3 and #4.

*2 The D-sub 15-pin (Front) and D-sub 15-pin (Rear) Connectors cannot be used simultaneously.

Encoding Card	NSBK-A16
Number of Analogue Cameras Supported	Max. 16
Number of Audio Inputs	Max. 4 inputs
Video Compression	MPEG-4
Input Video Format	NTSC or PAL
Mass	Approx. 72g (2.5oz)
Input Connector	DVI-I Connector x1
Host Interface	PCI
Analogue Camera Cable (Supplied)	
Input Connector (Video)	BNC x16
Input Connector (Audio)	RCA x4
Output Connector	DVI-I Connector x1
Mass	Approx. 235g (8.3oz)
Length	300mm (11 7/8 inches)
General	
Operating Temperature	5 to 40°C (41 to 104°F)
Operating Humidity	10 to 80% (Max. wet-bulb temperature 30°C, non-condensing)
Supplied Accessories	
Analogue Camera Cable x1, CD x1	

NSR-S10

The NSR-S10 is a network surveillance recorder for a single-server and multi-client system. The recorder supports up to four of Sony's SD and 1080p/720p HD network cameras, and its superb image quality gives users great reassurance when scrutinizing captured images. The NSR-S10 starts recording with the initial camera settings and displays images in up to four split-screens as soon as the recorder detects its connected cameras. So there is no need for a complicated preparation process, such as setting up an IP address and camera parameters. The NSR-S10 is an ideal choice for simple surveillance applications.

Key Features

- **Four-channel Network Surveillance Recorder**

The NSR-S10 connects to a maximum of four SD and 1080p/720p HD network cameras.

- **1080p/720p HD Recording with High Stability**

The NSR-S10 records 1080p/720p HD videos and reproduces extremely clear and detailed images to provide crucial visual information when needed.

- **Selectable Storage Capacity**

The NSR-S10 has two choices. The one has a storage capacity of 1 TB, and the other is without an internal hard disk drive.

- **Wide Ranges of Camera/Encoder Choices**

The NSR-S10 can be used with a variety of Sony's network cameras and encoders.

- **Plug & Play**

As soon as it detects cameras in a local area network (LAN), the NSR-S10 starts recording.

- **Web Client**

Using dedicated web client software, it's easy to build single-server and multi-client systems.

- **Three Codecs (H.264, MPEG-4, JPEG)**

The NSR-S10 records video using three codecs: H.264, MPEG-4, and JPEG.

- **IR Remote Controller**

An IR remote controller is supplied with each recorder.

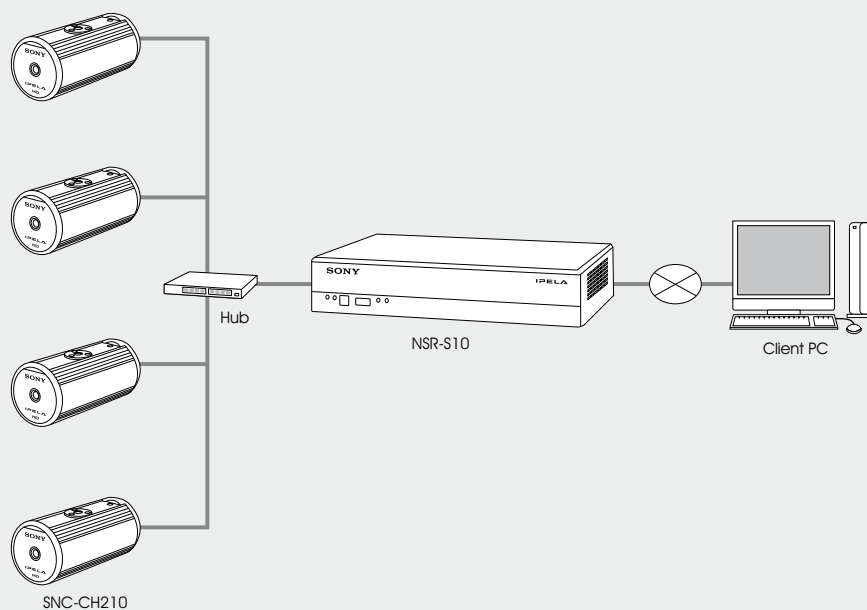
- **Multiple Language Support**

The recorder supports a variety of languages such as English, French, Simplified Chinese, and more.

- **Compact Design (245 x 53 x 160 mm)**

The compact design of the recorder enables installation even in space-restricted areas.

Configurations

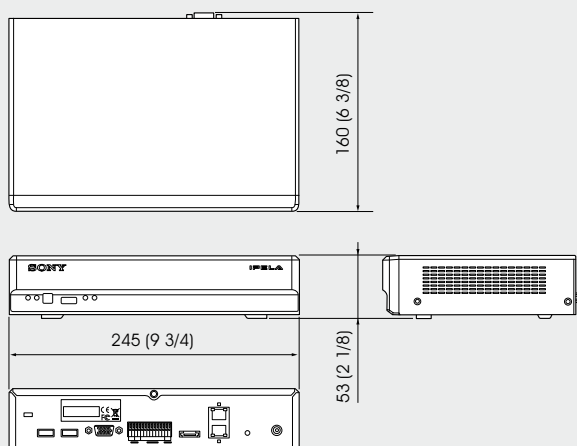




Specifications

Video/Recording	NSR-S10 (without HDD)	NSR-S10 (1TB)
Number of cameras supported	Max. 4	
Video compression	H.264/MPEG-4/JPEG	
Maximum recording rate (each camera)	15fps at 1920 x 1080 15fps at 1280 x 720 30fps at 640 x 480	
Hard disk drives (physical capacity)	-	1TB
Hard disk drives (interface)	Serial ATA (x1)	
Expansion storage (interface)	e-SATA (x1)	
Video Output		
Monitor out	D-sub 15-pin (x1)	
Display resolution	1024 x 768	
Audio Output		
Audio output	Terminal connector (x1)	
Sensor Input/Alarm Output		
Sensor input	Terminal connector (x4)	
Alarm output	Terminal connector (x1)	
Other Interfaces		
Ethernet	1000BASE-T/100BASE-TX/10BASE-T (x2)	
USB	USB 2.0 (x1) (front) / USB 2.0 (x2) (rear)	
General		
Dimensions (W x H x D)	245 x 53 x 160 mm (9 3/4 x 2 1/8 x 6 3/8 inches)	
Power requirement	DC 12 V	
Power consumption	Approx. 3A (typical) (Max. 4A)	
AC adapter	AC 100 V to 240 V (50 Hz/60 Hz)	
Mass	0.8 Kg (1 lb 12 oz)	1.4 Kg (3 lb 1 oz)
Operating temperature	5°C to 40°C (41°F to 104°F)	
Operating humidity	20% to 80%	

Dimensions



Unit: mm (inches)

The NSR-S10 can be used with the following products.

SNC-CH140/SNC-DH140/SNC-DH140T/SNC-CH180/SNC-DH180/
SNC-CH240/SNC-DH240/SNC-DH240T/SNC-CH280/SNC-DH280/
SNC-CH120/SNC-DH120/SNC-DH120T/SNC-CH160/SNC-DH160/
SNC-CH220/SNC-DH220/SNC-DH220T/SNC-CH260/SNC-DH260/
SNC-CH110/SNC-DH110/SNC-DH110T/SNC-CH210/SNC-DH210/
SNC-DH210T/SNT-EX101/SNT-EX104/SNT-EP104/SNC-RZ25/SNC-RZ50

For the update, please check with your local sales representatives.

NSR Accessories

Expand your NSR storage with a selection of cost-effective storage solutions to enable you to keep your data longer, while allowing fast access and reliable data protection.

Features & Benefits

NSRE-Si8/1

- 8 hot-swappable SAS/SATA drive bays in a robust 2U chassis
- Multiple-port iSCSI 1Gb access with link aggregation
- iSCSI, SMB/CIFS, NFS, FTP support
- Single power supply unit with 80-PLUS Bronze Certified
- OPAS and UPS Monitor via USB service
- Comprehensive embedded web-based management via Ethernet – WebPAM PROe
- Power Scheduler Operation
- MAID 2.0 support
- PerfectRAID and Predictive Data Migration technology for robust error handling and recovery
- LCD Panel support (optional)
- Wake-on-LAN support (VessRAID)
- Wake-on-SAS support (VessJBOD)

NSRE-Si16/1

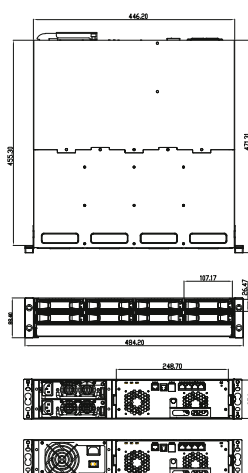
- 16 hot-swappable SAS/SATA drive bays in a robust 3U chassis
- Multiple-port iSCSI 1Gb access with link aggregation
- iSCSI, SMB/CIFS, NFS, FTP support
- SAS expansion for easy scalability
- Single power supply unit with 80-PLUS Bronze Certified
- OPAS and UPS Monitor via USB service
- Comprehensive embedded web-based management via Ethernet – WebPAM PROe
- Power Scheduler Operation
- MAID 2.0 support
- PerfectRAID and Predictive Data Migration technology for robust error handling and recovery
- LCD Panel support (optional)
- Wake-on-LAN support (VessRAID)
- Wake-on-SAS support (VessJBOD)

NSRE-SJBOD16/1

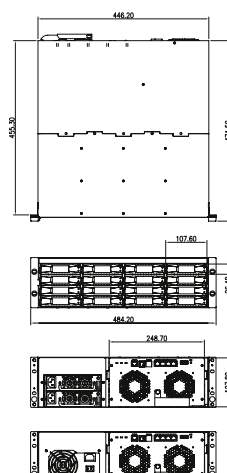
- 16 hot-swappable drive bays in a robust 3U chassis
- Supports Serial Attached SCSI (SAS) and SATA drives
- Single SAS JBOD I/O module
- Single power supply unit with 80-PLUS Bronze Certified
- SES-2 compliant enclosure management
- Fully compatible with PROMISE HBAs and RAID subsystems
- Wake-on-SAS support (WOS)

Dimensions

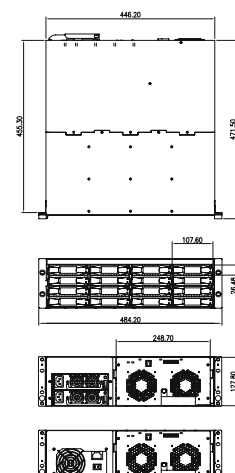
NSRE-Si8/1



NSRE-Si16/1



NSRE-SJBOD16/1



Peripherals

NSR-RM1

Rackmount kit for the following products
- NSR-1100/2T, NSR-1200/4T & NSR-1050H/1T.

NSRE-RM2

Rackmount kit for NSRE-Si8/1, for the installation in a standard 19" rack housing.

NSRE-RM3

Rackmount kit for NSRE-Si16/1 and NSRE-SJBOD16/1 for installation in a standard 19" rack housing.

NSRE-SASCABLE

This is a 1M cable used to connect the NSRE-SJBOD16/1 with the NSRE-Si16/1.



Specifications

System and Controller Features	NSRE-Si8/1	NSRE-Si16/1
Form Factor	2U	3U
Drive Support	8 Drives (3.5") SAS(3Gb/s), SATAII(3Gb/s), NCQ, TCQ	16 Drives (3.5")
Controller	Single (Intel® IOP348 1.2GHz)	
Host Channel	Quad Ports full-duplex 1 Gb iSCSI	
Promise Expansion Enclosure	N/A	One Port SAS-wide (x4) for VessJBOD series
Data Cache	512MB –2GB ECC cache memory with Optional BBU (Battery Backup Unit) Error Recovery Level 0	
iSCSI Features	Link Aggregation and Jumbo Frames w/ up to 64 Concurrent Sessions CHAP, iSNS and DHCP Microsoft iSCSI MPIO Support	
Command Queue Depth	1024	
NAS Features		
File Sharing Protocol	SMB/CIFS (Apple, Microsoft), NFS (Linux/Unix)	
Network Protocol	FTP	
Data Services	Online Volume Clone, Box Replication, NAS Fusion	
Operational Features		
RAID Levels	0, 1, 1E, 3, 5, 6, 10 (0+1), 30, 50, 60	
Hot spares	Global or Dedicated w/ revertible option	
Max LUNs per subsystem	256	
Max LUNs per array	32	
Variable Block and Sector Size	64KB ~ 1MB stripe block sizes 512B, 1KB, 2KB, 4KB sector size	
Disk Data Formats	Supports Disk Data Format (DDF) for drive roaming between VTrak and VessRAID series systems. Media Patrol Background Synchronizing; Initialization Rebuild; Redundancy Check SMART Condition Pooling, OCE (Online Capacity Expansion)/RLM (RAID Level Migration) Priority Control; Throttle Rate Control and watermarking per BGA (background activities) in Disk and NVRAM	
Background Activities	PDM (Predictive Data Migration) PerfectRAID™ advanced error handling Array Error Recovery Read/Write Check Table, Write Hole Table, Bad Sector Re-map Table, NVRAM event logging	
RAID Robustness		
System Management		
Supported OS	Windows 2000, XP, 2003, Vista, 2008 ¹ RedHat Linux, SuSE Linux, FreeBSD 7.0 VMWare ESX Server 4.0	
Management Tools	WebPAM PROe/SNMP via Ethernet CLI/CLU via RJ-11 or Ethernet LCD Control Panel (Optional) OPAS/UPS Monitor via USB service Power Scheduler Control	
Management Interfaces/Protocols	Ethernet, RJ-11 Serial Port, USB SNMP, SSL, Telnet, SLP	
Event Notification	Email, SNMP, NETSEND, Buzzer, LEDs, LCD Control Panel	
System Information		
AC Input	90 ~ 264 VAC, 47 ~ 63Hz	
Current (Maximum)	6A (100V); 3A (240V)	7A (100V); 3.5A (240V)
Power Supply	Single 350W 90-264V full-ranging w/PFC 80PLUS® Bronze	Single 450W 90-264V full-ranging w/PFC 80PLUS® Bronze
Power Consumption	167.3 Watts (w/ SAS drives) 73.2Watts (w/o drives)	242.8 Watts (w/ SAS drives) 72.2Watts (w/o drives)
FAN	N+1 Design	
Temperature	5° ~ 40°C ² (-40° ~ 60°C non operational)	
Relative Humidity	10% to 80% non-condensing	
Dimensions (H x W x D)	88.2 x 446.2 x 461 mm 3.5 x 17.6 x 18.1 in	130.1 x 446.2 x 461 mm 130.1 x 446.2 x 461 mm
Weight	10.8 kg (23.81 lbs) w/o drives 16kg (35.27 lbs) w/ drives	13.2 kg (29.1 lbs) w/o drives 23.6 kg (52.03 lbs) w/ drives
Base Configuration	VessRAID 2U/3U Unit w/ Drive Carrier VessRAID 2U/3U Unit w/ Drive Carrier RJ11-to-DB9 Serial Data Cable, Power Cord	
Warranty and Support		
Warranty	3 years limited warranty ³	
Supported Hardware Options	LCD Panel, Front Bezel, Sliding Rail, Battery Backup Unit, SAS Cable	

JBOD I/O Module Features	NSRE-SJBOD16/1
Form Factor	3U
Drive Support	16 Drives (3.5")
Controller	SAS(3Gb/s), SATAII(3Gb/s) Single
Host Channel	Dual, IN/OUT SAS-wide(x4) port over SFF-8088
Host Options	
Promise RAID HBA	SuperTrak EX8654, SuperTrak EX8658 SuperTrak TX8658
Promise RAID Storage System	VessRAID 1000 iSCSI/SAS Series
SAS Features	
Management Function	SAS Features Full SAS domain Topology Management SAS Management Protocol In-band Access to Expander and PHY Statistic Counters and Performance Monitors Statistic Counters and Performance Monitors SES Enclosure Management
System Management	
Supported OS	Windows 2000, XP, 2003, Vista, 2008 Windows 2000, XP, 2003, Vista, 2008 RedHat Linux, SuSE Linux, FreeBSD 7.0 LED Status Indicator
Management Interfaces	In-band SES Enclosure Management In-band SES Enclosure Management
Management Protocols	SES over in-band SAS
System Information	
AC Input	90 ~ 264 VAC, 47 ~ 63Hz
Current (Max)	7A (100V); 3.5A (240V) Single 450W
Power Supply	90-264V auto-ranging w/PFC 80PLUS® Bronze
FAN	N+1 Design
Temperature	5° ~ 40°C ¹ (-40° ~ 60°C non operational)
Relative Humidity	10% to 80% non-condensing
Dimensions (H x W x D)	131 x 446.2 x 460.5 mm 5.1 x 17.6 x 18.1 in
Weight	13.8 kg (30.42 lbs) w/o drives 13.8 kg (30.42 lbs) w/o drives
Base Configuration	VessJBOD 2U/3U Unit w/ Drive Carrier RJ11-to-DB9 Serial Data Cable, Power Cord Quick Start Guide, Set of Screws, CD (Product Manual, Firmware Update Tool, QSG)
Warranty and Option	
Warranty	3 years limited warranty ²
Supported Hardware Options	Front Bezel, Sliding Rail, SAS Cable

¹Operational Temperature between 5° ~ 35°C if BBU installed.

²BBU is covered by one year limited warranty

¹Microsoft® WHQL for Windows Server 2003 and 2008. ²Operational Temperature between 5° ~ 35°C if BBU installed. ³BBU is covered by one year limited warranty.

NSR Accessories continued



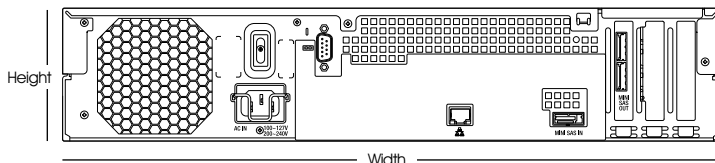
Features & Benefits

NSRE-S200/4T

- The NSR-1200/4T, 1100/2T & 1050H/1T have an internal storage capacity of up to 2 TB/1 TB/0.5 TB respectively. For additional storage requirements, each server can connect up to seven NSRE-S200/4T units via its SAS interface. The NSRE-S200/4T is a 2 TB hard disk storage device with RAID 5 capability. With the NSR-1200/4T in RAID 5 configuration and with seven connected NSRE-S200/4T units, its total maximum recording capacity is approximately 22 TB.

Dimensions

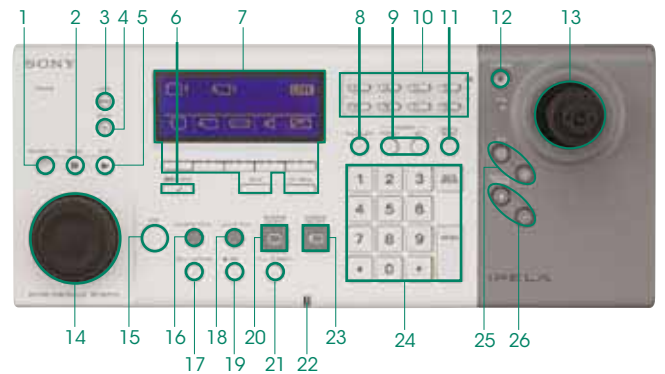
Rear Panel NSRE-S200



Height 3.4" (87mm)
Width 16.9" (430mm)
Depth 16.4" (417mm)

RM-NS1000

- An optional RM-NS1000 System Controller – which connects to the NSR-1000 Series or a client PC via USB cable – allows the user to control multiple servers and cameras. A wide range of operations can be performed from this unit, including camera selection, Pan/Tilt/Zoom (PTZ) with preset controls, snapshot capturing, video exporting, and event search and playback. Equipped with a three-axis joystick with a mouse emulator, three-line LCD, and feature-rich control panel, the RM-NS1000 is the ideal tool for easy operation of your system.



- | | | |
|------------------------------|----------------------------|---------------------------|
| 1. JOG/SHUTTLE LED BUTTON | 10. CUSTOM FUNCTION BUTTON | 19. MIC BUTTON |
| 2. PAUSE | 11. DIGITAL ZOOM BUTTON | 20. MONITOR SELECT BUTTON |
| 3. LOCK BUTTON | 12. CURSOR LED BUTTON | 21. FULL SCREEN BUTTON |
| 4. PANIC BUTTON | 13. JOYSTICK | 22. BUILT-IN MIC |
| 5. PLAY BUTTON | 14. JOG/SHUTTLE DIAL | 23. CAMERA SELECT BUTTON |
| 6. ALARM BUTTON | 15. LIVE BUTTON | 24. NUMERIC KEY |
| 7. LCD/MULTI FUNCTION BUTTON | 16. CAMERA TOUR BUTTON | 25. IRIS BUTTON |
| 8. ALL SELECT BUTTON | 17. STILL CAPTURE BUTTON | 26. FOCUS BUTTON |
| 9. PRESET/SET BUTTON | 18. LAYOUT TOUR BUTTON | |

Specifications

Storage Capacity		NSRE-S200/4T
Hard disk drive	Physical capacity	4 TB (500 GB x4)
	Interface	Serial ATA
	RAID level	RAID 5
	Recording capacity	Approx. 1TB x 4
Interfaces		
Ethernet		100BASE-TX/10BASE-T x1 (Auto switching) (For maintenance)
Serial interface		RS-232C x1 (For maintenance)
Serial attached SCSI (SAS1.1)		SFF-8088 (mini-SAS 26pin): input x1, output x2
General		
Dimensions (W x H x D)		430 x 87 x 417 mm (16.9 x 3.4 x 16.4 inches) (Excluding protrusions)
Mass		Approx. 12 kg (26 lb 7 oz)
Power requirements		AC 100 to 127 V/200 to 240 V (50/60 Hz)
Power consumption		Approx. 80 W (typical) (Max. 350 W)
Operating temperature		5 to 40 °C (41 to 104 °F)
Operating humidity		20 to 80 %
Supplied accessories		Mini-SAS cable (1 m), Front panel key (2), Installation manual, Warranty booklet, Rubber foot (4)

Interfaces	RM-NS1000
Interface	USB 2.0 low-speed device (Cable Length - Approx 3m; 9ft. 10in.)
External Interface	USB 2.0 (2)
	Microphone stereo mini jack (plug-in power) (1)
	Headphone stereo mini jack (1)
	RS-485 port
General	
Dimensions	409.0 (W) x 111.5 (H) x 170.0 (D) mm (16 1/8 x 4 1/2 x 6 3/4 inches)
Mass	1,200 g (2.6 lb)
Power Requirement	DC 12V
Power Consumption	1A
AC Adapter	100-240V AC, 50/60Hz
Operating Temperature	5 to 40 degrees C (41 to 104 degrees F)
Operating Humidity	20 to 80 % (max. wet bulb temperature : 32 degrees C (90 degrees F))
Supplied Accessories	AC Adapter (1), First Step Guide (1), CD-ROM (User's Guide) (1), Warranty (1)

SNCA-HRX550/EXT

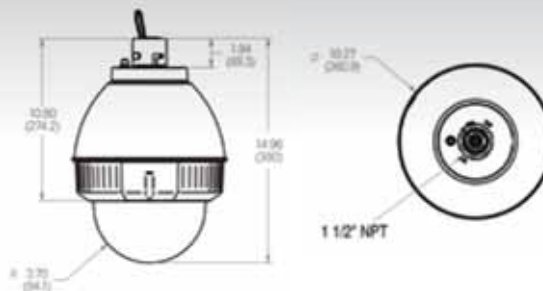
The SNCA-HRX550/EXT Dome offers versatility, easy installation and camera protection in a compact size. This inconspicuous dome housing is specifically designed to accommodate Sony's SNC-RX550, SNC-RZ25, SNC-RS44/46 and SNC-RH124 cameras.



Features and Benefits

- Easy camera installation in an IP66 rated dome
- Designed to support the SNC-RX550, SNC-RZ25, SNC-RS44/46 and SNC-RH124 cameras in outdoor installations
- Constructed of durable engineered plastic top, 94VO, with UV protected lower dome
- Cast aluminum pendant mount is standard
- Optically clear .118" (3mm) thick aspheric polycarbonate dome
- 24 Hour fan operation for effective heating and condensation protection
- Thermostatically controlled 24VAC heater
- Separate power input for H&B and camera power

Dimensions



Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models	Optional accessories	Colour
SNCA-HRX550/EXT	Outdoor dome camera housing	IP66	-29 to +50°C -44 to +50°C with optional heater/blower kit added (SNCA-HEATER)	24VAC	SNC-RX550P SNC-RX530P SNC-RX570P SNC-RZ25 SNC-RS44/46P SNC-RH124	SNCA-CLEAR/2 (included) SNCA-TINTED/2 SNCA-HEATER	DuPont Sky White PFW-510-S9

SNCA-HRX550/INT

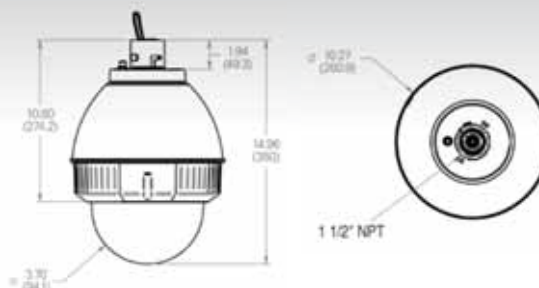
The SNCA-HRX550/INT 7" Dome offers versatility, easy installation and camera protection in a compact size for indoor installations. This inconspicuous dome housing is specifically designed to accommodate Sony's SNC-RX550N, SNC-RZ25N, SNC-RS44/46 and SNC-RH124 cameras.



Features and Benefits

- Easy camera installation
- Designed for the SNC-RX550, SNC-RZ25N, SNC-RS44/46 and SNC-RH124 cameras
- Constructed of Durable engineered plastic top, 94VO, with UV protected lower dome
- Cast aluminum pendant mount is standard
- Optically clear.118" (3mm) thick aspheric polycarbonate dome

Dimensions



Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models	Optional accessories	Colour
SNCA-HRX550/INT	Indoor dome camera housing	IP66	0 to 50°C	24VAC	SNC-RX550P SNC-RX530P SNC-RX570P SNC-RZ25N SNC-RS44/46P SNC-RH124	SNCA-CLEAR/2 (included) SNCA-TINTED/2	DuPont Sky White PFW-510-S9

SNCA-HRX550EXT/R

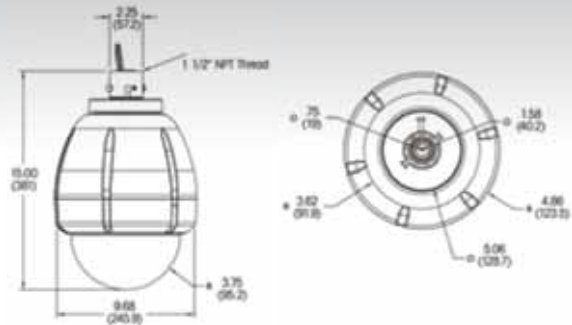
The SNCA-HRX550EXT/R 7" Dome offers heavy duty, vandal resistant protection for the camera. This tough dome housing is specifically designed to accommodate Sony's SNC-RX550, SNC-RZ25N, SNC-RS44/46 and SNC-RH124 cameras. The housing offers versatility, easy installation and outstanding camera protection in a compact size.



Features and Benefits

- Easy camera installation in an IP66 outdoor dome
- Offers IK-10 level protection for the SNC-RZ25N and SNC-RX550 series cameras
- Outdoor dome, UV protected
- Strong cast aluminum top and trim ring for IK10 rated protection
- Optically clear 118" (3mm) thick aspheric polycarbonate dome
- Thermostatically controlled 24VAC heater
- 24 Hour fan operation for effective heating and condensation protection
- Separate power input for H&B and camera power
- Pendant mount, 1 1/2" NPT quick connect coupling

Dimensions



Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models	Optional accessories	Colour
SNCA-HRX550EXT/R	Heavy duty, outdoor dome housing	IP66	-29 to +50°C -44 to +50°C with optional heater/blower kit added (SNCA-HEATER)	24VAC	SNC-RX550P SNC-RX530P SNC-RX570P SNC-RH124 SNC-RZ25N SNC-RS44/46P	SNCA-CLEAR/2 (included) SNCA-TINTED/2 SNCA-HEATER	DuPont Sky White PFW-510-S9

SNCA-HRX550EXT/W

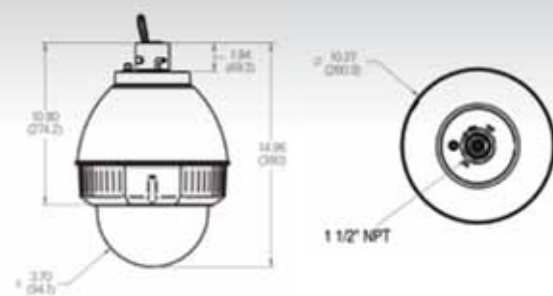
The SNCA-HRX550EXT/W 7" Dome offers versatility, easy installation and camera protection in a compact size. This inconspicuous dome housing is specifically designed to accommodate Sony's SNC-RX550 and SNC-RZ25 cameras when equipped for wireless operation. The SNCA-HRX550EXT/W includes a pre-run wireless antenna cable that works with the SNCA-CFW1 wireless card & SNCA-AN1 antenna.



Features and Benefits

- Easy camera installation in an IP66 rated dome
- Designed to support the SNC-RX550 and SNC-RZ25 cameras in outdoor, wireless installations
- Constructed of Durable engineered plastic top, 94VO, with UV protected lower dome
- Cast aluminum pendant mount is standard
- Optically clear.118" (3mm) thick aspheric polycarbonate dome
- 24 Hour fan operation for effective heating and condensation protection
- Thermostatically controlled 24VAC heater
- Separate power input for H&B and camera power
- Wireless antenna cable included with housing

Dimensions



Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models	Optional accessories	Colour
SNCA-HRX550EXT/W	External dome housing (wireless)	IP66	-29 to +50°C -44 to +50°C with optional heater/blower kit added (SNCA-HEATER)	24VAC	SNC-RX550P SNC-RX530P SNC-RX570P SNC-RZ25 SNC-RS 44/46P SNC-RH124	SNCA-CLEAR/2 (included) SNCA-TINTED/2 SNCA-HEATER	DuPont Sky White PFW-510-S9

SNCA-RX550EXT1 2V

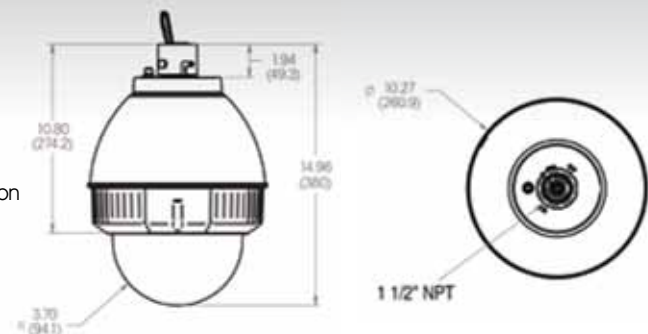
The SNCA-RX550EXT Dome offers versatility, easy installation and camera protection in a compact size. This inconspicuous dome housing is specifically designed as a 12vdc input enclosure for outdoor installations.



Features and Benefits

- Easy camera installation in an IP66 rated dome
- Designed as a 12vdc input model for outdoor installations
- Constructed of durable engineered plastic top, 94VO, with UV protected lower dome
- Cast aluminum pendant mount is standard
- Optically clear .118" (3mm) thick aspheric polycarbonate dome
- 24 Hour fan operation for effective heating and condensation protection
- Thermostatically controlled 12vdc heater
- Separate power input for H&B and camera power

Dimensions



Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models	Optional accessories	Colour	Approx. Dimensions
SNCA-RX550EXT1 2V	External dome housing (12V)			12VDC	SNC-RX-550P SNC-RS 44/46P SNC-RH1 24 SNC-RX530P SNC-RX570P	SNCA-HEATER SNCA-TINTED/2 SNCA-CLEAR/2	Clear	

SNCA-HRX550/PRE

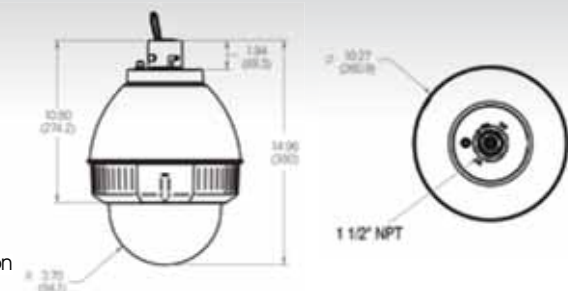
The SNCA-HRX550/PRE Dome offers versatility, easy installation and camera protection in a compact size. This inconspicuous dome housing is specifically designed to accommodate Sony's SNC-RX550, SNC-RZ25, SNC-RS44/46 and SNC-RH1 24 cameras.



Features and Benefits

- Easy camera installation in an IP66 rated dome
- Designed to support the SNC-RX550, SNC-RZ25, SNC-RS44/46 and SNC-RH1 24 cameras in outdoor installations
- Constructed of durable engineered plastic top, 94VO, with UV protected lower dome
- Cast aluminum pendant mount is standard
- Includes both Schrader and pressure relief valves
- Pressurized to 7psi, able to maintain pressure for 2-3 years
- Optically clear .118" (3mm) thick aspheric polycarbonate dome
- 24 Hour fan operation for effective heating and condensation protection
- Thermostatically controlled 24VAC heater
- Separate power input for H&B and camera power

Dimensions



Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models	Optional accessories	Colour
SNCA-HRX550/EXT	Outdoor dome camera housing	IP66	-29 to +50°C -44 to +50°C with optional heater/blower kit added (SNCA-HEATER)	24VAC	SNC-RX550P SNC-RX530P SNC-RX570P SNC-RZ25 SNC-RS44/46 SNC-RH1 24	SNCA-CLEAR/2 (included) SNCA-TINTED/2 SNCA-HEATER	DuPont Sky White PFW-510-S9

SNCA-HRZ25

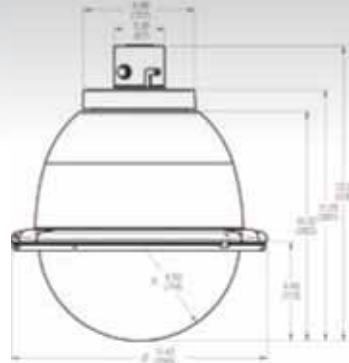
The SNCA-HRZ25 outdoor dome housing with clear dome, 24 VAC input, with heater & blower offers versatility and camera protection in a compact size. This inconspicuous dome housing is specifically designed to accommodate Sony's SNC-RZ25 Network camera.



Features and Benefits

- Easy camera installation
- Constructed of a durable engineered plastic top, 94VO, with UV protected lower dome
- Cast aluminum pendant mount is standard
- Optically clear 118" (3mm) thick aspheric polycarbonate dome
- 24 Hour fan operation for effective heating and condensation protection
- Thermostatically controlled 24VAC heater
- Separate power input for H&B and camera power

Dimensions



Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models	Colour
SNCA-HRZ25	Outdoor 8" dome housing, pendant mount with clear dome for SNC-RZ25 camera	IP66	-6.67 to +40°C	24VAC, 75W	SNC-RZ25P	DuPont Sky White PFW-510-S9

SNCA-HRZ50/EXT

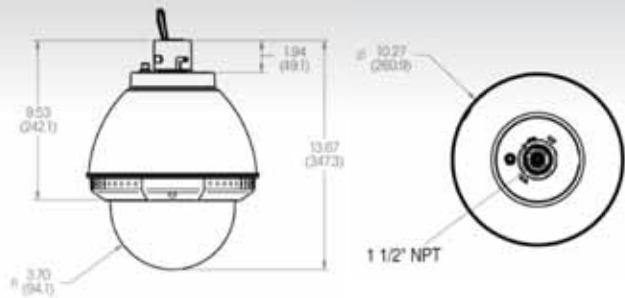
The SNCA-HRZ50/EXT Dome offers versatility and camera protection in a compact size. This inconspicuous dome housing is specifically designed to accommodate Sony's SNC-RZ30 and SNC-RZ50 cameras. The housing offers versatility, easy installation and outstanding camera protection in a compact size.



Features and Benefits

- Easy camera installation
- Constructed of a durable engineered plastic top, 94VO, with UV protected lower dome
- Cast aluminum pendant mount is standard
- Optically clear 118" (3mm) thick aspheric polycarbonate dome
- 24 Hour fan operation for effective heating and condensation protection
- Thermostatically controlled 24VAC heater
- Separate power input for H&B and camera power

Dimensions



Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models	Optional accessories	Colour	Approx. Dimensions
SNCA-HRZ50/EXT	External dome housing	IP66	-29 to +50°C (-44 to +50°C with optional heater blower kit)	24VAC	SNC-RZ30P SNC-RZ50P	SNCA-CLEAR/2 (included) SNCA-TINTED/2 SNCA-HEATER	DuPont Sky White PFW-510-S9	

SNCA-HRZ50/EXT/R

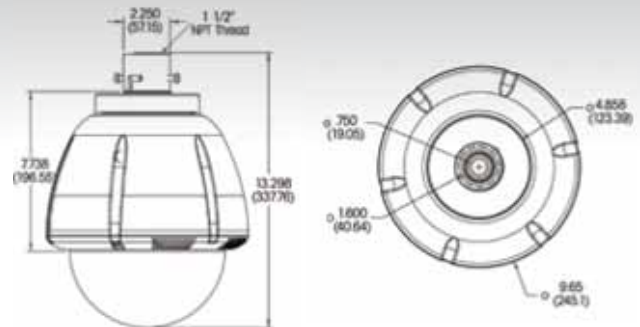
The SNCA-HRZ50/EXT/R 7" Dome offers heavy duty, vandal resistant, IK10 rated protection for the camera. This tough dome housing is specifically designed to accommodate Sony's SNC-RZ30N and SNC-RZ50N cameras. This housing offers versatility, easy installation and outstanding camera protection in a compact size.



Features and Benefits

- Easy camera installation
- Outdoor dome, UV protected
- Strong cast aluminum top and trim ring offers IK10 vandal protection
- Optically clear 118" (3mm) thick aspheric polycarbonate dome
- Thermostatically controlled 24VAC heater
- 24 Hour fan operation for effective heating and condensation protection
- Separate power input for H&B and camera power
- Pendant mount, 1 1/2" NPT quick connect coupling
- Accepts the SNC-RZ25N and SNC-RZ30N cameras

Dimensions



Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models	Optional accessories	Colour	Approx. Dimensions
SNCA-HRZ50/EXT/R	Heavy duty, indoor dome housing	IP66	-29 to +50°C (-44 to +50°C with optional heater blower kit)	24VAC	SNC-RZ30P SNC-RZ50P	SNCA-CLEAR/2 (included) SNCA-TINTED/2 SNCA-HEATER	DuPont Sky White PFW-510-S9	

SNCA-HRZ50/EXT/W

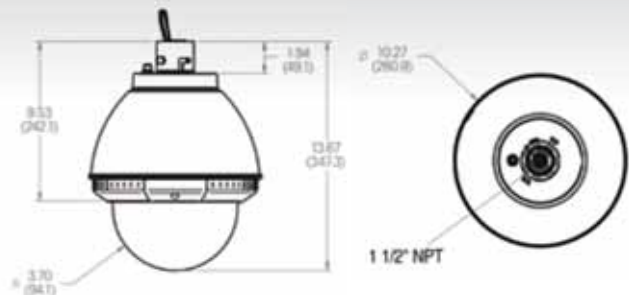
The SNCA-HRZ50/EXT/W Dome offers versatility and camera protection in a compact size. This inconspicuous dome housing includes a pre-run wireless antenna cable that works with the SNCA-CFW1 wireless card & SNCA-AN1 antenna. This housing offers versatility, easy installation and outstanding camera protection in a compact size.



Features and Benefits

- Easy camera installation
- Constructed of a durable engineered plastic top, 94VO, with UV protected lower dome
- Cast aluminum pendant mount is standard
- Optically clear 118" (3mm) thick aspheric polycarbonate dome
- 24 Hour fan operation for effective heating and condensation protection
- Thermostatically controlled 24VAC heater
- Separate power input for H&B and camera power
- Wireless ready model

Dimensions



Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models	Optional accessories	Colour	Approx. Dimensions
SNCA-HRZ50/EXT/W	External dome housing (wireless)	IP66	-29 to +50°C (-44 to +50°C with optional heater blower kit)	24VAC	SNC-RZ30P SNC-RZ50P	SNCA-CLEAR/2 (included) SNCA-TINTED/2 SNCA-HEATER SNCA-CFW1 SNCA-AN1	DuPont Sky White PFW-510-S9	

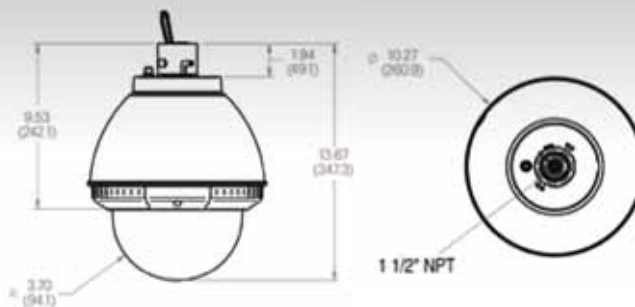
SNCA-HRZ50/INT

The SNCA-HRZ50/INT Dome offers versatility and camera protection in a compact size. This inconspicuous dome housing is specifically designed to support Sony's SNC-RZ30 and SNC-RZ50 cameras in indoor installations. The housing offers versatility, easy installation and outstanding camera protection in a compact size.



Dimensions

- Easy camera installation
- Constructed of a durable engineered plastic top, 94VO, with UV protected lower dome
- Cast aluminum pendant mount is standard
- Optically clear 1 1/8" (3mm) thick aspheric polycarbonate dome



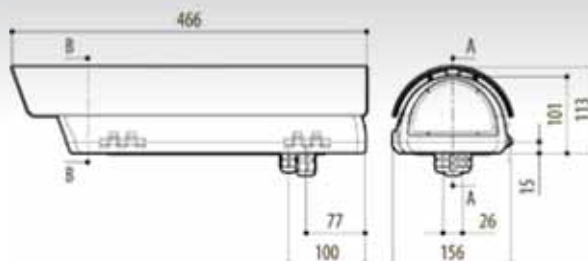
Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models	Optional accessories	Colour	Approx. Dimensions
SNCA-HRZ50/INT	Internal dome housing	IP66	0 to +50°C	12VDC	SNC-RZ30P SNC-RZ50P	SNCA-CLEAR/2 (Included) SNCA-TINTED/2 SNCA-HEATER	DuPont Sky White PFW-510-S9	

SNCA-HFIXSML/230

A 115VAC/230VAC Polycarbonate Housing with a Cable Managed Aluminium bracket, designed for use with the smaller cameras. This IP66 aesthetically pleasing housing should protect the camera against all that the elements can throw at it.



Dimensions



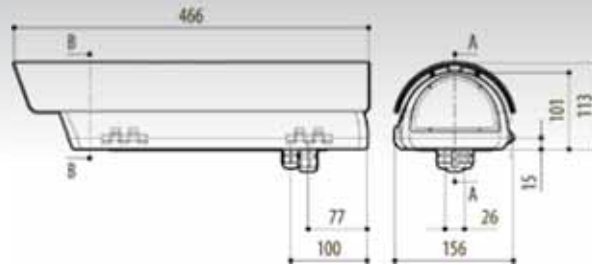
Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models	Optional accessories	Colour	Approx. Dimensions
SNCA-HFIXSML/230	Fixed housing, c/w sunshield, heater, wall bracket	IP66	-28 to 48°C	230VAC, 50Hz	SNC-CS10 SNC-CS11 SSC-DC172P SSC-DC198P SSC-DC372P SSC-DC378P SSC-E453P SSC-E458P SSC-E473P SSC-E478P SSC-M383CE SSC-M388CE	Additional camera PSU may be required (SNCA-PSVTSML230) when using 230VAC model	DuPont Sky White PFW-510-S9	L400 x H106 x W127.5mm

SNCA-HFIXSML/24

A 12VDC/24VAC Polycarbonate Housing with a Cable Managed Aluminium bracket, designed for use with the smaller cameras. This IP66 aesthetically pleasing housing should protect the camera against all that the elements can throw at it.



Dimensions



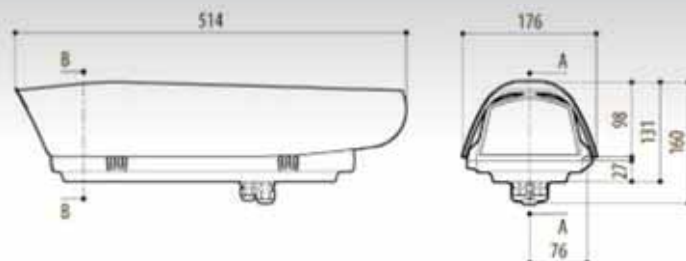
Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models		Optional accessories	Colour	Approx. Dimensions
SNCA-HFIXSML/24	Fixed housing, c/w sunshield, heater, wall bracket	IP66	-28 to 48°C	24VAC, 50Hz	SNC-CS10 SNC-CS11 SSC-DC172P SSC-DC198P SSC-DC372P SSC-DC378P	SSC-E453P SSC-E458P SSC-E473P SSC-E478P SSC-M383CE SSC-M388CE		DuPont Sky White PFW-510-S9	L400 x H106 x W127.5mm

SNCA-HFIXSTD/230

A 115VDC/230VAC die cast aluminium side opening housing with a cable managed bracket designed to the highest specification, IP66 rated to protect cameras against the weather.



Dimensions



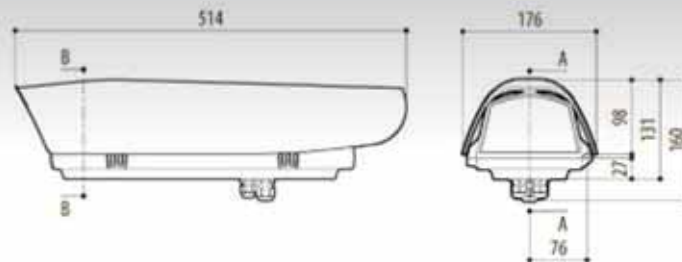
Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models		Optional accessories	Colour	Approx. Dimensions
SNCA-HFIXSTD/230	Fixed housing, c/w sunshield, heater, wall bracket	IP66	-28 to 48°C	230VAC, 50Hz	SNC-CS3P SNC-CS10P SNC-CS11P SNC-Z20P SNC-CS20 SNC-CM120 SNC-CS50P SNC-CH140	SSC range SNC-CH120 SNC-CH220 SNC-CH240 SNC-CH160 SNC-CH180 SNC-CH260 SNC-CH280	Additional camera PSU may be required (SNCA-PSVTSTD230) when using 230VAC model SNCA-CAFIX1 SNCA-PMFIX1 SNCA-PSVTSTD24	DuPont Sky White PFW-510-S9	L514 x H131 x W176mm

SNCA-HFIXSTD/24

A 12VDC/24VAC die cast aluminium side opening housing with a cable managed bracket designed to the highest specification, IP66 rated to protect cameras against the weather.



Dimensions



Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models		Optional accessories	Colour	Approx. Dimensions
SNCA-HFIXSTD/24	Fixed housing, c/w sunshield, heater, wall bracket	IP66	-28 to 48°C	24VAC, 50Hz	SNC-CS3P SNC-CS10P SNC-CS11P SNC-Z20P SNC-CS20 SNC-CM120 SNC-CS50P SNC-CH140	SSC Range SNC-CH120 SNC-CH220 SNC-CH240 SNC-CH160 SNC-CH180 SNC-CH260 SNC-CH280	SNCA-CAFIX1 SNCA-PMFIX1	DuPont Sky White PFW-510-S9	L514 x H131 x W176mm

SNCA-ICPTZ/C & SNCA-ICPTZ/T

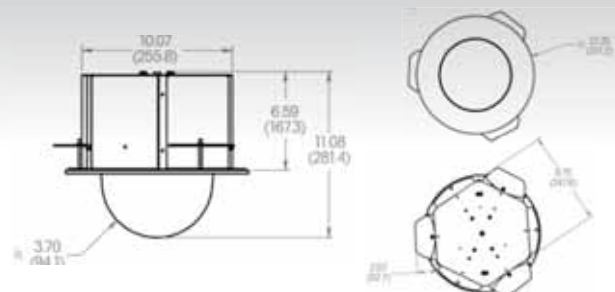
The SNCA-ICPTZ/C is a low profile indoor ceiling housing. It features a 7" optically clear polycarbonate dome, which accommodates Sony PTZ Cameras. The upper body is made of steel with a white powder coat trim ring and an injection molded 3mm thick, optically clear thermoplastic polycarbonate dome.



Features and Benefits

- 7" polycarbonate dome for easy installation and servicing from below the ceiling
- Housing extends only 3.5" below ceiling
- For the SNC-RZ25, SNC-RZ30, SNC-RZ50, SNC-RS44/46, SNC-RH124 and SNC-RX series ptz cameras
- Includes a decorative trim ring with quick-release pressure springs
- Optically clear .118" (3mm) thick aspheric polycarbonate dome
- A tinted lower dome is available as p/n SNCA-TINTED/2

Dimensions



Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models		Optional accessories	Colour	Approx. Dimensions
SNCA-ICPTZ/C	Clear dome in ceiling bracket	N/A	N/A	N/A	SNC-RX530P SNC-RX550P SNC-RX570P SNC-RZ50P SNC-RX530P SNC-RX550P SNC-RX570P SNC-RZ50P	SNC-RZ25P SNC-RZ30P SNC-RS44/46P SNC-RH124 SNC-RZ25P SNC-RZ30P SNC-RS44/46P SNC-RH124	N/A	Clear	H9.1" x W12" x D12"
SNCA-ICPTZ/T	Tinted dome in ceiling bracket	N/A	N/A	N/A	SNC-RX530P SNC-RX550P SNC-RX570P SNC-RZ50P	SNC-RZ25P SNC-RZ30P SNC-RS44/46P SNC-RH124	N/A	Tinted	H9.1" x W12" x D12"

SNCA-HP5

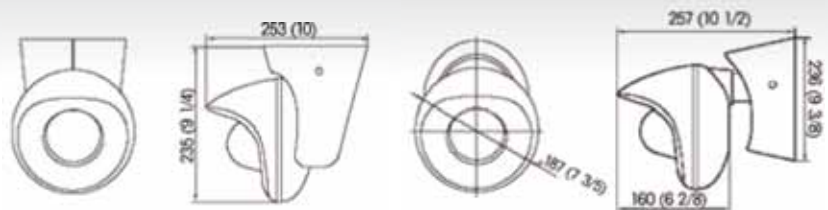
The SNCA-HP5 is a unique outdoor housing for the SNC-P5 camera.



Features and Benefits

- Easy camera installation
- Waterproof to IP x 3
- Operating Temperature -10C to +50C

Dimensions



Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models	Optional accessories	Colour	Approx. Dimensions
SNCA-HP5	Camera housing for SNC-P5		-10 to +50°C		SNC-P5	N/A	DuPont Sky White PFW-510-S9	187 x 238 x 257mm (wall mounted)

SNCA-CEILING

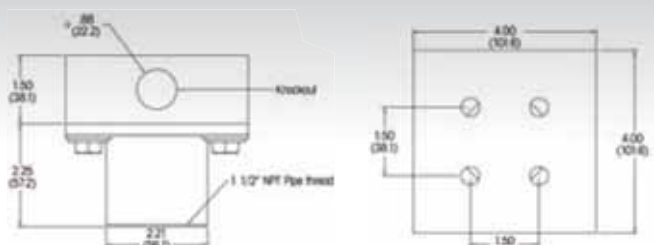
The SNCA-CEILING is a ceiling mount adapter with Junction Box and 1 1/2" NPT coupling.



Features and Benefits

- Constructed of heavy duty steel

Dimensions



Model	Description	Applicable/compatible housing models		Optional accessories	Dimensions	Colour
SNCA-CEILING	Ceiling mounting kit	SNCA-HRX550/EXT SNCA-HRX550/EXT/W SNCA-HRX550/INT SNCA-HRX550/EXT/R SNCA-HRX550/EXT/PRE SNCA-HRZ50/EXT	SNCA-HRZ50/EXT/W SNCA-HRZ50/INT SNCA-HRZ50/EXT/R SNC-RS84P SNC-RS86P SNC-RH1 64	SNCA-POLE30 (Ceiling mount adapter) SNCA-RX550EXT1 2V	N/A	Black

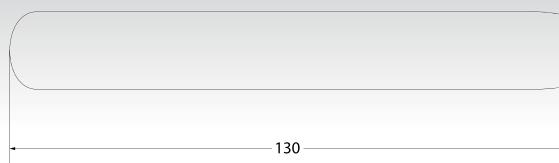
SNCA-POLE30

Extension pipe, 305mm (12") long for use with SNCA-CEILING.



Features and Benefits

Dimensions



Model	Description	Applicable/compatible housing models		Optional accessories	Dimensions	Colour
SNCA-POLE30	Extension pole for ceiling mount housings	SNCA-HRX550/EXT SNCA-HRX550/EXT/W SNCA-HRX550/INT SNCA-HRX550/EXT/R SNCA-HRX550/EXT/PRE SNCA-HRZ50/EXT	SNCA-HRZ50/EXT/W SNCA-HRZ50/INT SNCA-HRZ50/EXT/R SNC-RS84P SNC-RS86P SNC-RH164	SNCA-RX550EXT12V	L30cm	Black

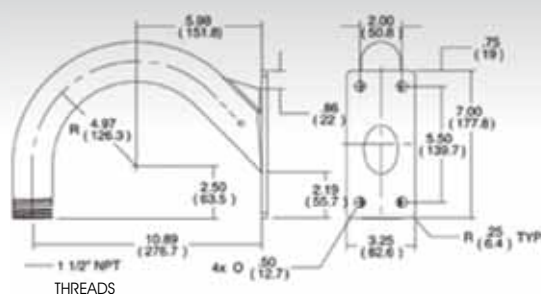
SNCA-WM20G

The SNCA-WM20G is an aluminum gooseneck wall mount bracket for use with all dome enclosures.



Features and Benefits

Dimensions



Model	Description	Applicable/compatible housing models		Optional accessories	Colour
SNCA-WM20G	Gooseneck wall mount	SNCA-HRX550/EXT SNCA-HRX550/EXT/W SNCA-HRX550/INT SNCA-HRX550/EXT/R SNCA-HRX550/EXT/PRE SNCA-HRZ50/EXT SNCA-HRZ50/EXT/W	SNCA-HRZ50/INT SNCA-HRZ50/EXT/R SNCA-HRZ25 SNC-RS/RH Series SNC-RS84P SNC-RS86P SNC-RH164	SNCA-PM3 (Pole mount adaptor) SNCA-CA2 (Corner adaptor) SNCA-POWERBOX SNCA-RX550EXT12V	DuPont Sky White PFW-510-S9

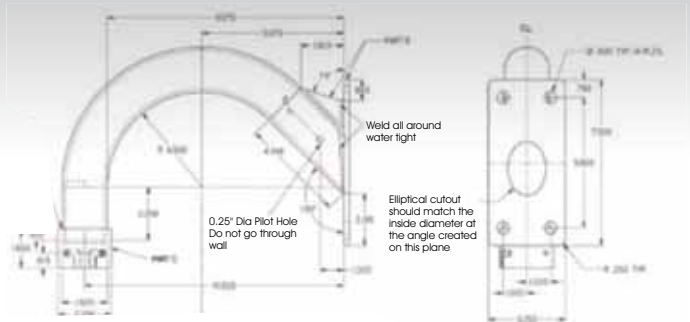
SNCA-WM20FC

The SNCA-WM20FC is an aluminum gooseneck wall mount bracket with fixed coupling for use with all dome enclosures.



Features and Benefits

Dimensions



Model	Description	Applicable/compatible housing models		Optional accessories	Colour
SNCA-WM20FC	Wall mounted bracket with fixed coupling	SNCA-HRX550/EXT SNCA-HRX550/EXT/W SNCA-HRX550/INT SNCA-HRX550/EXT/R SNCA-HRX550/EXT/PRE	SNCA-HRZ50/EXT SNCA-HRZ50/EXT/W SNCA-HRZ50/INT SNCA-HRZ50/EXT/R SNCA-RS/RH Series	SNCA-PM3 (Pole mount adaptor) SNCA-CA2 (Corner adaptor) SNCA-POWERBOX SNCA-RX550EXT12V	DuPont Sky White PFW-510-S9

SNCA-WM30G

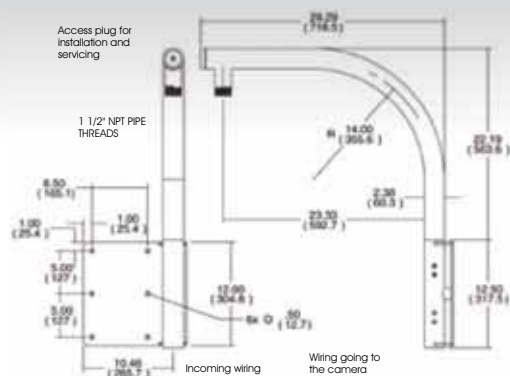
The SNCA-WM30G is a roof top parapet bracket designed to mount the camera dome out & away from the roof top for an unobstructed view. It features a 1 1/2" pipe thread to mount to any Sony dome. The design allows the dome to be swung back over the roof for servicing.



Features and Benefits

Dimensions

- All aluminum construction
- Durable powder coat finish
- 1 1/2" pipe thread for quick and easy mounting
- 50 lb load rating



Model	Description	Applicable/compatible housing models	Optional accessories	Dimensions	Colour
SNCA-WM30G	Gooseneck wall mount	SNC-RS84P SNC-RS86P SNC-RH164	SNCA-RX550EXT12V		

SNCA-WM40

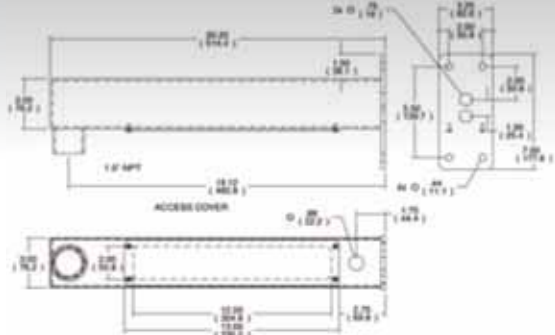
Heavy-duty wall mount with removable panel. Durable off-white polyurethane powder coat finish for corrosion resistance in outdoor use.



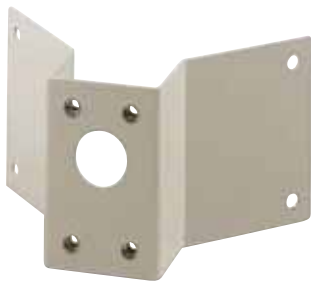
Features and Benefits

- Heavy duty wall mount for use with all Sony domes

Dimensions



Model	Description	Applicable/compatible housing models		Optional accessories	Dimensions	Colour
SNCA-WM40	Extended wall mount bracket	SNCA-HRX550/EXT SNCA-HRX550/EXT/W SNCA-HRX550/INT SNCA-HRX550/EXT/R SNCA-HRX550/EXT/PRE SNCA-HRZ50/EXT	SNCA-HRZ50/EXT/W SNCA-HRZ50/INT SNCA-HRZ50/EXT/R SNC-RS84P SNC-RS86P SNC-RH164	SNCA-PM3 (Pole mount adapter) SNCA-CA2 (Corner adapter) SNCA-RX550EXT12V	L53cm	DuPont Sky White PFW-510-S9



SNCA-CAFIX1

This is a Corner mount fixing for the Housings and wall brackets to fit to.

SNCA-PMFIX1

This pole mount adaptor allows the Housing range with Brackets to be attached to a pole of Diameter between 65mm and 110mm.

SNCA-WMFX10PC

A Camera Bracket for indoor usage, it is 14cm long and has an adjustment that allows for Wall or Ceiling mounting.

Model	Description	Applicable/compatible housing models		Optional accessories	Dimensions	Colour
SNCA-CAFIX1	Corner mount adapter	SNCA-HFIXSML/24 SNCA-HFIXSML/230 SNCA-HFIXSTD/24 SNCA-HFIXSTD/230		N/A	L22cm	
SNCA-PMFIX1	Pole mount adapter	SNCA-HFIXSML/24 SNCA-HFIXSML/230 SNCA-HFIXSTD/24 SNCA-HFIXSTD/230		N/A	L17.27cm	
SNCA-WMFX10PC	Wall/ceiling camera bracket	SNC-CS10 SNC-CS11 SNC-CS20	SNC-CS50P SNC-CM120 SNC-Z20P	N/A	H14.1cm	

SNCA-CA2

The SNCA-CA2 is an aluminum corner mount bracket with female inserts, which can accommodate the SNCA-WM20G, SNCA-WM20FC and SNCA-WM40.

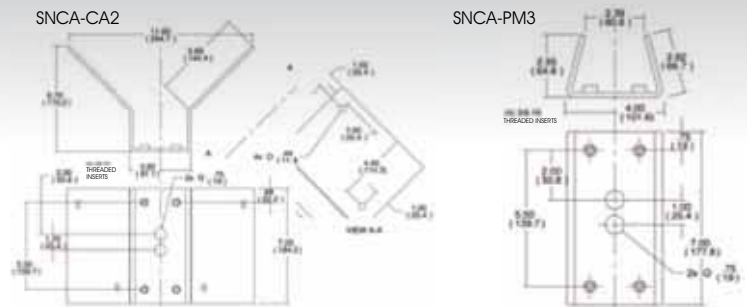


SNCA-PM3

The SNCA-PM3 is an aluminum pole mount adapter.

Features and Benefits

Dimensions



Model	Description	Applicable/compatible housing models		Optional accessories	Colour
SNCA-CA2	Corner mount bracket, 22Kg max load rating	SNCA-WM20G SNCA-WM40 SNCA-WMMD1	SNCA-WMMD2 SNCA-WM20FC SNCA-WMMD4		DuPont Sky White PFW-510-S9
SNCA-PM3	Pole mount adaptor bracket	SNCA-WM20G SNCA-WM40	SNCA-WMMD1 SNCA-WMMD2	SNCA-PM3 SNCA-CA2	White

SNCA-WMMD1

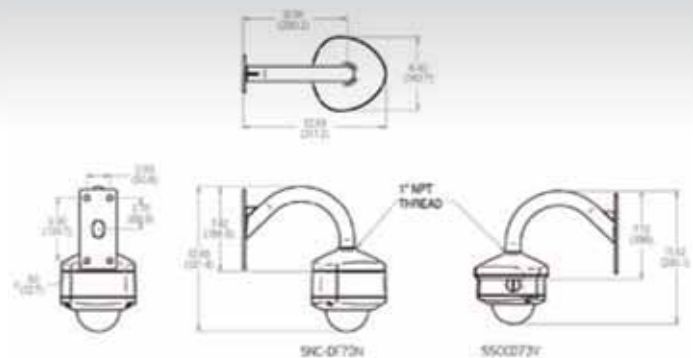
The SNCA-WMMD1 is a cast aluminum mini dome bracket kit that bolts directly the SSC-CD73 or SNCDF70 to allow the camera to be wall or pendant mounted. A 1" NPT pipe thread, aluminum gooseneck wall mount is included. The wall mount can be combined with the SNCA-CA2 for corner mount applications and with the SNCA-PM3 for pole mount applications. The kit includes Teflon thread sealant tape, gaskets and a sealing grommet for protection outdoors.



Features and Benefits

Dimensions

- Wall mount or pendant mount the SSC-CD73V or SNCDF70N
- All aluminum construction
- 1" pipe thread for pendant mounting
- Gooseneck bracket for wall mounting
- Outdoor or indoor use



Model	Description	Applicable/compatible housing models	Optional accessories	Dimensions	Colour
SNCA-WMMD1	Wall mounted mini dome bracket DF70/CD73	SNC-DF70 SSC-CD73	SNCA-PM3 (Pole mount adapter) SNCA-CA2 (Corner adapter)		DuPont Sky White PFW-510-S9

SNCA-WMMD2

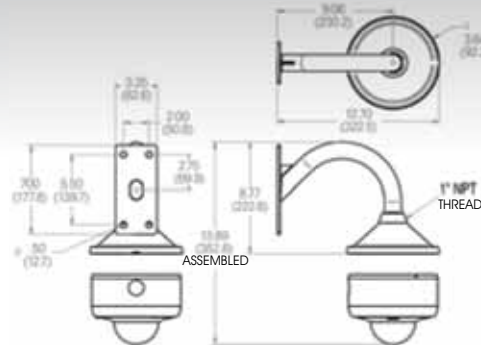
The SNCA-WMMD2 is a cast aluminum mini dome bracket kit that bolts directly the SNC-DF80, SNC-DF85, SNC-CD75 and SNC-CD77 cameras to allow for wall or pendant mounting. A 1" NPT pipe thread, aluminum gooseneck wall mount is included. The wall mount can be combined with the SNCA-CA2 for corner mount applications and with the SNCA-PM3 for pole mount applications. The kit includes Teflon thread sealant tape, gaskets and a sealing grommet for protection outdoors.



Features and Benefits

- Wall mount or pendant mount the SNCDF80N
- All aluminum construction
- 1" pipe thread for pendant mounting
- Gooseneck bracket for wall mounting
- Indoor or outdoor use

Dimensions



Model	Description	Applicable/compatible housing models	Optional accessories	Dimensions	Colour
SNCA-WMMD2	Wall mounted mini dome bracket DF80/CD75/77	SNC-DF80P SNC-DF85P SNC-CD75P SNC-CD77P	SNCA-PM3 (Pole mount adapter) SNCA-CA2 (Corner adapter)		DuPont Sky White PFW-510-S9

SNCA-WMMD3

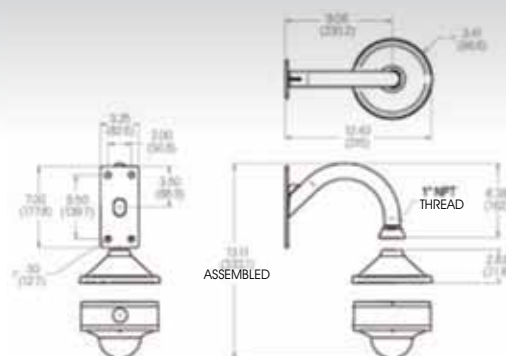
The SNCA-WMMD3 is a cast aluminum mini dome bracket kit that bolts directly the SNC-DM160 and SNC-DS60 cameras to allow for wall or pendant mounting. A 1" NPT pipe thread, aluminum gooseneck wall mount is included. The wall mount can be combined with the SNCA-CA2 for corner mount applications and with the SNCA-PM3 for pole mount applications. The kit includes Teflon thread sealant tape, gaskets and a sealing grommet for protection outdoors.



Features and Benefits

- Wall mount or pendant mount the SNC-DM160 & SNC-DS60
- All aluminum construction
- 1" pipe thread for pendant mounting
- Gooseneck bracket for wall mounting
- Indoor or outdoor use

Dimensions



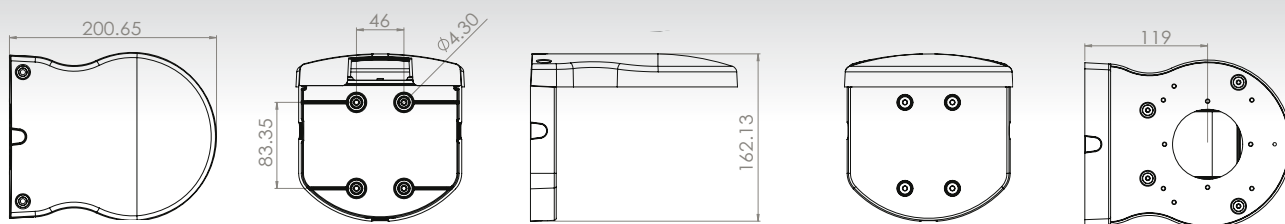
Model	Description	Applicable/compatible housing models		Optional accessories	Dimensions	Colour
SNCA-WMMD3	Mini dome mounting kit, can be used internally or externally. Includes bracket and seal kit	SNC-DM160 SNC-DS60 SNC-DH160	SNC-DH180 SNC-DH260 SNC-DH280	DuPont Sky White PFW-510-S9		DuPont Sky White PFW-510-S9

SNCA-WMMD4

The SNCA-WMMD4 is a mini-dome bracket kit that bolts the cameras directly to the wall.



Dimensions



Model	Description	Applicable/compatible housing models	Optional accessories	Dimensions	Colour
SNCA-WMMD4	Wall mounted bracket	SNC-DH140/DH240, SNC-DH120/DH220 SNC-DS10/DM110 SNC-DF50 SNC-RH124 SNC-RS44/RS46	N/A		

	Model	Description	Applicable/compatible housing models	Optional accessories	Dimensions	Colour
	YT-ICB124	In Ceiling Bracket	SNC-RS46N SNC-RS44N SNC-RS44P SNC-RS46P SNC-RH124	YT-LD124	L226 x H152 x W270 mm	N/A
	YT-ICB140	In Ceiling bracket	SNC-DH140 SSC-CD45 SSC-CD45P SSC-CD49 SSC-CD49P SNC-DF50N SNC-DF50P SNC-DS10 SNC-DM110 SNC-DH120 SNC-DH220 SNC-DH240			White
	YT-ICB45	In ceiling bracket	SSC-CD45P SSC-CD49P SSC-CD75P SSC-CD77P SSC-CD79P SNC-DF50P SNC-DF80P SNC-DF85P SNC-DS10 SNC-DM110 SNC-DS60 SNC-DM160			White
	YT-ICB73V	In ceiling bracket for Ssc-cd73vp	SSC-CD73VP			Silver
	YT-LD124C	Clear Dome Cover	YT-ICB124			Clear
	YT-LD124S	Tinted Dome Cover	YT-ICB124			Tinted
	YT-ICB550/T	Tinted in-ceiling bracket for SNC-RX550P	SNC-RX550P			Tinted
	YT-ICB550/C	Clear in-ceiling bracket for SNC-RX550P	SNC-RX550P			Clear

SNCA-POWERBOX

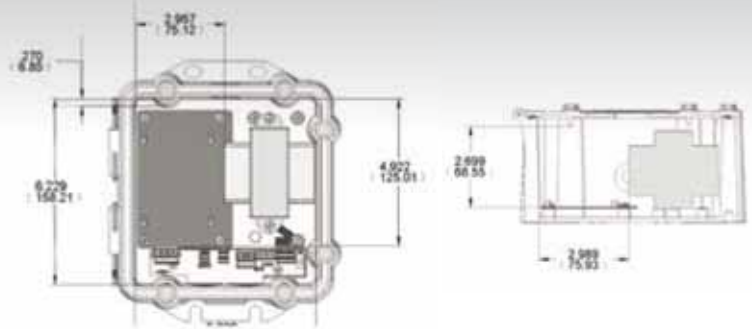
The SNCA-POWERBOX is a rugged, outdoor NEMA rated, cast aluminum power supply with 220/115Vac input converting to 24Vac and 96w output power. Pole mounting clips included.



Features and Benefits

- Rugged cast aluminum NEMA 4 enclosure
- Meets IP 66 standards to prevent the induction of minute particles
- Designed for direct conduit connections
- The SNCA-WM20G and SNCA-WM20FC mount directly to the door for simple installation and a clean look
- Provides 4 amps of power at 24Vac
- Pole mounting clips included

Dimensions



Model	Description	Applicable/ compatible camera models	Key features	Operating voltage	Approx. Weight	Approx. Dimensions	Colour
SNCA-POWERBOX	IP66 rated power supply with bracket connction	SNCA-WM20G SNCA-WM20FC SNCA-WM40 SNCA-WMMD1 SNCA-WMMD2	Ideal for powering 24VAC housings and the cameras	110VAC / 230VAC (selectable)			White

SNCA-POE1

Compact and Cost-Effective 1-Port Power over Ethernet Midspan. Power over Ethernet (PoE) single port Midspan (PoE injector) offers a compact and cost effective, fully IEEE 802.3af compliant solution for remote powering of wireless LAN (WLAN) access points, and other low port density installations. The 3001 PoE Midspan eliminates the need for external power supply and its associated AC/DC power cabling, providing a compact, affordable, safe and reliable power solution over existing Ethernet infrastructure.



Features and Benefits

- Cost-effective power distribution for WLAN access point installations
- Safe powering of standard compliant, as well as Pre-standard end-terminals
- Investment protection of existing Ethernet switches and cabling infrastructure
- Saves time and reduces installation costs
- Easy plug-and-play installation
- Several units can be mounted adjacently for powering more than one Ethernet terminal
- Cleans up low-density wireless LAN deployment and eliminates the need for multiple one-port PoE solutions
- Supports Gigabit Ethernet data transmission for applications such as Wi-Max access points, Gig IP phones, and IP cameras

Specifications

General	
No. of Ports	1
Data Rates	3001/AC: 10/100 Mbps 3001G/AC: 10/100/1000 Mbps
Power over Ethernet Output	Pin Assignment and Polarity: 4/5 (+), 7/8 (-)
Output Power Voltage	48
User Port Power	15.4W min.
Input Power Requirements	AC Input Voltage: 90 to 264 Vac
AC Input Current	0.5A @110-220 Vac
AC Frequency	47 to 63 Hz
Dimensions	60 mm (W)x 31 mm (H)x 145 mm (L)
Weight	1 lbs (450 g)
Indicators	
System Indicator	AC Power (Green)
User Indicator	Channel Power (Green)
Connectors	Shielded RJ-45, EIA 568A and 568B
Environmental Conditions	
Operating Ambient Temperature	32° to 104°F (0 to 40°C)
Operating Humidity	Maximum 90%, non-condensing
Storage Temperature	-4° to 158°F (-20° to 70°C)
Storage Humidity	Maximum 93%, Non-condensing
Operating Altitude	-1000 to 10,000 ft. (-304.8 to 3048 m)

Dimensions



SNCA-HPOE1

The SNCA-HPOE1 is a single port, high-power solution for remote powering of current and emerging high power applications. Generating up to 30W, the SNCA-HPOE1 enables remote power for a new range of applications including 802.11 Access Points, pan-tilt-zoom (PTZ) cameras and video-phones. It complies to IEEE 802.3at PoE standard and is backward compatible to IEEE802.3af. It can power both existing 10/100Base-T network devices and emerging wireless 1000Base-T devices such as Wi-MAX and wireless IEEE 802.11n access points.



Features and Benefits

- Up to 30W of Power on 2-pairs
- IEEE 802.3at Compliant with 2-event classification
- IEEE 802.3af backward compatible
- Compatible With All IEEE 802.3af or Legacy Cisco-Powered Devices
- Safe: Low Power Devices Receive Only the Power They Need
- Safe and Reliable Power to WLAN Access Points
- Automatic Detection and Protection of Non-standard Ethernet Terminals
- Supports 10/100/1000Base-T applications
- Compact Design Fits Easily in WLAN Access Point Installations

Specifications

General	
No. of Ports	1
Pass Through Data Rates	10/100/1000 Mbps
Power over Ethernet Output	Pin Assignment and Polarity, Output 4/5 (+), 7/8 (-)
Output Power Voltage	55Vdc
User Port Power	30Watts
Input Power Requirements	AC Input Voltage: 100 to 240 Vac
AC Input Current	0.8A @ 100-240 Vac
AC Frequency	50 to 60 Hz
Dimensions	87.9 mm x 51.3 mm x 166 mm, 3.46 in. x 2.0 in. x 6.53 in
Weight	.771 lbs (350g)
Indicators	
System Indicator	AC Power (Green)
User Indicator	Channel Power (Green)
Connectors	Shielded RJ-45, EIA 568A and 568B
Environmental Conditions	
Operating Ambient Temperature	14° to 113°F (-10 to 45°C)
Operating Humidity	Maximum 90%, Non-condensing
Storage Temperature	32° to 104°F (0° to 40°C)
Storage Humidity	Maximum 95%, Non-condensing
Operating Altitude	-1000 to 10,000 ft. (-304.8 to 3048 m)
Reliability	
MTBF	100,000 hrs. @25°C
Thermal Rating	27 BTU/Hr (@240VAC)
Warranty	1-year

SNCA-POE6 / SNCA-POE12

The SNCA-POE6 & POE12 offers a cost effective, fully IEEE 802.3af compliant solution to upgrade existing infrastructure with PoE, providing a maximum of 15.4 Watts of power through each port and ensuring safe operation of any standard PoE data terminal. It allows IP telephones, wireless LAN access points, security network cameras and IP terminals to receive power, along with data, over standard Ethernet cables, leaving network infrastructure completely unaltered.



Features and Benefits

- A cost-effective solution to upgrade existing infrastructure to PoE
- Safe & reliable power over existing Ethernet infrastructure
- Safe solution that Protects network infrastructure
- Scalable 6 & 12 port models for optimised installation
- Fully 802.3af standard compliant
- Cisco and legacy PoE support

Specifications

General	
No. of Ports	6 or 12
Pass Through Data Rates	10/100 Mbps
Power over Ethernet Output	Pin Assignment and Polarity, 4/5 (+), 7/8 (-)
Output Power Voltage	48Vdc
User Port Power	15.4Watts Max.
Aggregate Power	up to 200Watts
Input Power Requirements	AC Input Voltage: 90 to 264 Vac
AC Input Current	4A @ 110 Vac, 2A @ 240 Vac
AC Frequency	50 to 60 Hz
Dimensions	438 mm x 272 mm x 44 mm, 17.3 in. x 17.7 in. x 1.73 in
Weight	8.8 lbs (4 kg)
Indicators	
System Indicator	AC Power (Green)
User Indicator	Channel Power (Green)
Connectors	Shielded RJ-45, EIA 568A and 568B
Environmental Conditions	
Operating Ambient Temperature	32° to 104°F (0 to 40°C)
Operating Humidity	Maximum 90%, Non-condensing
Storage Temperature	-4° to 158°F (-20° to 70°C)
Storage Humidity	Maximum 95%, Non-condensing
Operating Altitude	-1000 to 10,000 ft. (-304.8 to 3048 m)
Reliability	
MTBF	100,000 hrs. @25°C
Thermal Rating	300 BTU/Hr (@240VAC)
Warranty	1-year

SNCA-PS12/1

A 12V DC 500mA in-line power supply that provides a single regulated DC output. The unit's mains and output leads are wire ended to allow easy connection to terminal blocks etc. ABS cased. These power supplies are intended for CCTV use and their size makes them suitable for mounting inside a camera housing, space permitting.



Features and Benefits

- 12V DC in-line PSU
- 1 x 500mA output
- Output leads are wire ended
- Suitable for mounting inside camera housings etc.
- ABS cased
- Dimensions are 65 x 115 x 45

Model	Description	Applicable/compatible camera models				Key features	Current (Amps)	Voltage (nominal)	Case	Approx. Weight	Approx. Dimensions W x H x D	Colour
SNCA-PS12/1	An indoor, in-line power supply with one output rated at 1 Amp, 12VDC	SSC-DC83 SSC-DC593 SSC-E473 SSC-E453 SSC-DC374 SSC-DC174 SSC-DC193P SSC-M383	SSC-M183 SSC-CD43VP SSC-CD73VP SNC-CS50P SNC-DF40P SNC-DF70P SNC-Z20P SNC-CS3P	SNC-CH120 SNC-CH140 SNC-CH220 SNC-CH240 SNC-CH160 SNC-CH180 SNC-CH260 SNC-CH280	SNC-DH140 SNC-DH140T SNC-DH240 SNC-DH240T	Ideal for powering 12VDC cameras	1A	12V DC	ABS	0.8Kg	70 x 102 x 60	Black

SNCA-PS24/1

A 1 Amp 24V AC in-line power supply. Ideal for powering 24V AC CCTV cameras and camera housing heaters. The unit has a black plastic case that can be wall mounted or placed directly inside the camera housing (space permitting). It is pre-wired with a Euro mains plug and terminals for connecting to the output are provided inside the case.



Features and Benefits

- 24V AC in-line PSU
- 1 x 1A output
- Suitable for mounting inside camera housings etc.
- ABS cased
- Dimensions are 68 x 115 x 70mm

Model	Description	Applicable/compatible camera models				Key features	Current (Amps)	Supply Voltage (nominal)	Output Voltage (nominal)	Case	Approx. Weight	Approx. Dimensions W x H x D	Colour
SNCA-PS24/1	An indoor, in-line power supply with one output rated at 1 Amp, 24VAC, 50Hz	SSC-DC83 SSC-DC593 SSC-E473 SSC-E453 SSC-DC374 SSC-DC174 SSC-DC193P SSC-M383 SSC-M183	SSC-CD43VP SSC-CD73VP SNC-CS50P SNC-DF40P SNC-DF70P SNC-Z20P SNC-CS3P SNC-RX550P SNC-RZ25P	SNC-CH120 SNC-CH140 SNC-CH220 SNC-CH240 SNC-CH160 SNC-CH180 SNC-CH260 SNC-CH280 SNC-DH140	SNC-DH140T SNC-DH240 SNC-DH240T	Ideal for powering 24VAC cameras	1A	240V AC 50Hz	24V AC	Plastic	1Kg	68 x 115 x 70	Black

SNCA-PS24/4

A 4 Amp 24V AC power supply with 1 x 4 Amp fused output. Ideal for powering 24V AC CCTV cameras and camera housing heaters. Steel cased.



SNCA-PS24/4E







A 4 Amp 24V AC power supply with 1 x 4 Amp fused outputs in an IP66 enclosure. Ideal for powering 24V AC CCTV cameras and camera housing heaters. Grey ABS cased.



Features and Benefits

- Comes with wall mounting kit
- Comes with wall mounting kit
- Individually fused outputs
- Weather proof enclosure

Model	Description	Applicable/compatible camera models				Key features	Current (Amps)	Supply Voltage (nominal)	Output Voltage (nominal)	Case	Approx. Weight	Approx. Dimensions W x H x D	Colour
SNCA-PS24/4	An indoor, in-line power supply with one output rated at 4 Amps, 24VAC, 50Hz	SNCA-HFIXED SNCA-HRZ25 SNCA-HRZ30 SNCA-HRX550/EXT SNCA-HRX550/EXT/W SNCA-HRX550/EXT/R SNCA-HRX550/INT SNCA-HRZ50/EXT SNCA-HRZ50/EXT/W SNCA-HRZ50/EXT/R	SNCA-HRZ50/INT SNC-CH120 SNC-CH140 SNC-CH220 SNC-CH240 SNC-CH160 SNC-CH180 SNC-CH260 SNC-CH280 SNC-CH140	SNC-DH140T SNC-DH240 SNC-DH240T SNC-DH160 SNC-DH180 SNC-DH260 SNC-DH280 SNC-RZ25P SNC-RZ50P SNC-RX530P	SNC-RX550P SNC-RX570P SNC-RS44P SNC-RS46P SNC-RH124 SNC-RS84P SNC-RS86P SNC-RH164	Ideal for powering 24VAC cameras	1 x 4A	240V AC 50Hz	24V AC	Metal	2.05Kg	118 x 200 x 70mm	White
SNCA-PS24/4E	An external, in-line power supply with one output rated at 4 Amps, 24VAC, 50Hz	SNCA-HFIXED SNCA-HRZ25 SNCA-HRZ30 SNCA-HRX550/EXT SNCA-HRX550/EXT/W SNCA-HRX550/EXT/R SNCA-HRX550/INT SNCA-HRZ50/EXT SNCA-HRZ50/EXT/W SNCA-HRZ50/EXT/R	SNCA-HRZ50/INT SNC-CH120 SNC-CH140 SNC-CH220 SNC-CH240 SNC-CH160 SNC-CH180 SNC-CH260 SNC-CH280 SNC-CH140	SNC-DH140T SNC-DH240 SNC-DH240T SNC-DH160 SNC-DH180 SNC-DH260 SNC-DH280 SNC-RZ25P SNC-RZ50P SNC-RX530P	SNC-RX550P SNC-RX570P SNC-RS44P SNC-RS46P SNC-RH124 SNC-RS84P SNC-RS86P SNC-RH164	Ideal for powering 24V AC housings and the cameras	1 x 4A	240V AC 50Hz	24V AC	Grey ABS	2.13Kg	150 x 250 x 100	White

	Model	Description	Applicable/compatible camera models	Key features	Operating voltage	Approx. Weight	Approx. Dimensions	Colour
	SNCA-PSVTSM24	This camera power supply converts 230VAC to 24VAC to power the camera and fits perfectly inside the SNCA-HFIXSML/230 Housing.	SNCA-HFIXSML/230	Can be mounted in housing	230VAC, 50Hz			N/A
	SNCA-PSVTSTD24	The OHOVPS2B converts 230VAC to 24VAC and is designed to fit into the SNCA-HFIXSTD/230	SNCA-HFIXSTD/230	Can be mounted in housing	230VAC, 50Hz			N/A
	SNCA-POWER/PCB	Red network camera power PCB with 12vdc output for all outdoor model dome enclosures.		Controls the blower and heater				
	YS-W170P	Camera adaptor (DC power + video/sync)			240V			
	YS-W270A							
	YS-W270P	Camera adaptor (DC power + video/sync)			240V			

SNCA-IR20

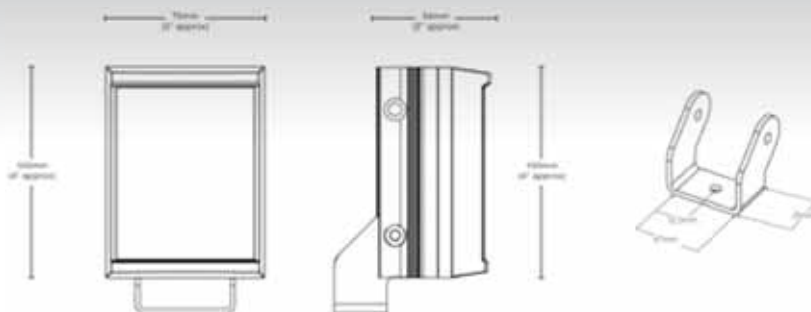
The SNCA-IR20 Infra-Red illuminator is designed to provide dedicated lighting for network cameras via a PoE (Power over Ethernet) enabled infrastructure. Installation is as simple as plugging in the PoE enabled network cable. With an in-built photocell plus internal Command and Control™ electronics the SNCA-IR20 is truly 'plug and play'.



Features and Benefits

- Operates from PoE
- In Built Photocell
- Command and Control™ technology
- 24/7 Illumination
- 20m range
- 30° spread

Dimensions



Model	Description	Key features	Operating Voltage	IP Rating	Colour
SNCA-IR20	IR light indoor 20m	20m range, 30° spread	PoE, 12-24V AC/DC	N/A	Black

SNCA-IR20/OUTDR

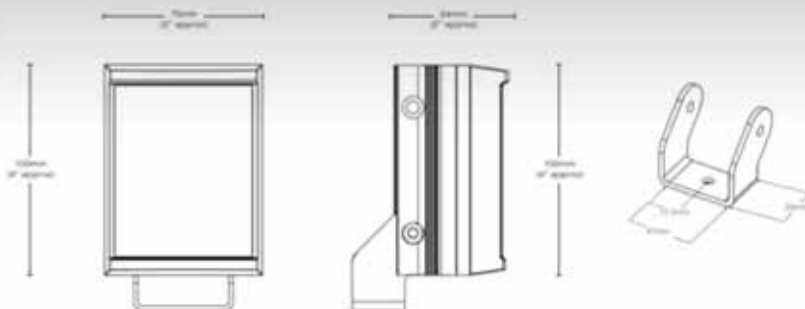
The SNCA-IR20/OUTDR Infra-Red illuminator is designed to work in conjunction with B&W or Day and Night Cameras for short range applications, includes PSU with photocell.



Features and Benefits

- Surface Mount LED Technology
- Active LED Life Control
- Vandal Resistant
- Low Running Cost
- 5 Year Warranty
- 20m range
- 30° spread

Dimensions



Model	Description	Key features	Operating Voltage	IP Rating	Colour
SNCA-IR20/OUTDR	IR light outdoor 20m	20m range, 30° spread	110-230V AC	IP66	Black

SNCA-IR40/OUTDR

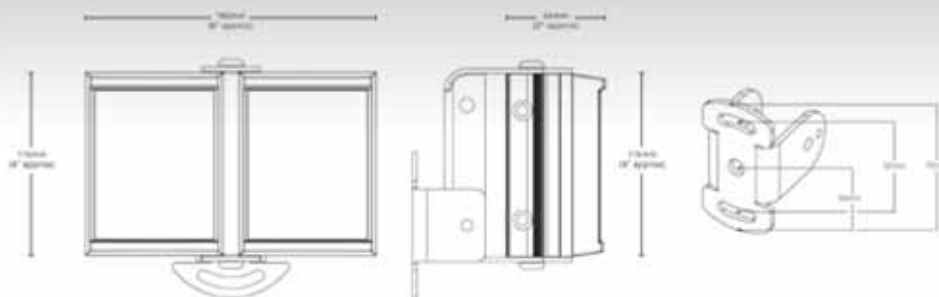
The SNCA-IR40/OUTDR Infra-Red Illuminator is designed to work in conjunction with B&W or Day and Night Cameras for short - medium distance applications. Adaptive Illumination™ allows for the onsite adjustment of beam patterns from 30-60°, includes PSU with photocell.



Features and Benefits

- Adaptive Illumination™
- Surface Mount LED Technology
- Active LED Life Control
- Vandal Resistant
- Low Running Cost
- 5 Year Warranty
- 40m range
- 30-60° spread

Dimensions



SNCA-IR80/OUTDR

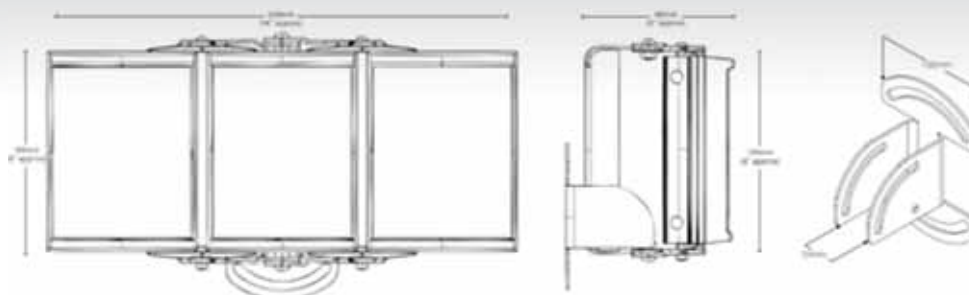
The SNCA-IR80/OUTDR Infra-Red Illuminator is designed specifically to work in conjunction with B&W or Day and Night Dome Cameras. Ultimate Adaptive Illumination™ allows for the onsite adjustment of beam patterns from 50-180° achieving 360° with only 2 units. Includes PSU with photocell.



Features and Benefits

- Adaptive Illumination™
- Surface Mount LED Technology
- Active LED Life Control
- Vandal Resistant
- Low Running Cost
- 5 Year Warranty
- max 100m range
- 50-180° spread

Dimensions



Model	Description	Key features	Operating Voltage	IP Rating	Colour
SNCA-IR80/OUTDR	IR light for PTZ		110-230V AC	IP66	Black

SNCA-WL15/OUTDR

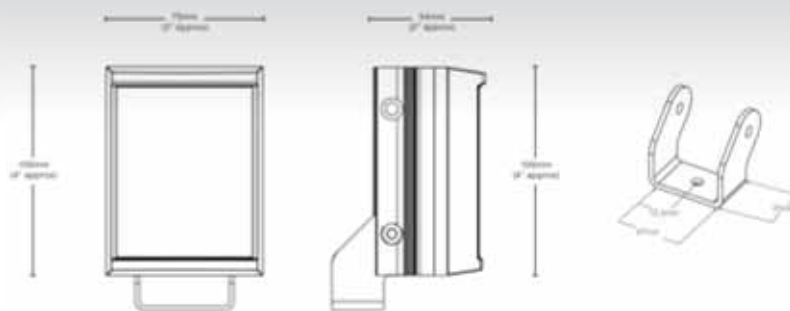
The SNCA-WL15/OUTDR illuminator is designed to work in conjunction with colour CCTV systems providing a visible White-Light with accurate colour representation for the CCTV camera, includes PSU with photocell.



Features and Benefits






- Accurate Colour Representation
- Surface Mount LED Technology
- Active LED Life Control
- Vandal Resistant
- Low Running Cost
- 5 Year Warranty
- 20m range
- 30° spread

Dimensions



Model	Description	Key features	Operating Voltage	IP Rating	Colour
SNCA-WL15/OUTDR	White light outdoor 15m	15m range	110-230V AC	IP66	Silver

Network and Connectivity

	Model	Description	Applicable/compatible camera models	Key features	Operating Temperature	IP Rating
	SNCA-AN1	Wireless Outdoor LAN Antenna	SNCA-CFW1 SNCA-CFW5	50Ω Impedance Fixing pole included	-20°C to 60°C	IP66
	SNCA-CFW1	Wireless CF LAN card	SNC-CS50P (SNCA-CFADAPT req'd) SNC-RZ50P SNC-RX550P (SNCA-CFADAPT req'd) SNC-RZ25P SNC-P5	11Mb/s, 2.4GHz Powered by camera Built-in antenna External antenna connector Supports WEP/WPA/WPA2 IEEE-802.1 authentication Wireless diversity mode (TX/RX)	-20°C to 60°C	N/A
	SNCA-CFW5	Sim compact flash (Sony MESH compatible)	SNC-CS50P (SNCA-CFADAPT req'd) SNC-RZ50P SNC-RX550P (SNCA-CFADAPT req'd)	54Mb/s, 2.4GHz Powered by camera Built-in antenna External antenna connector Supports WEP/WPA/WPA2 IEEE-802.1 authentication Wireless diversity mode (TX)	-20°C to 60°C	N/A
	SNCA-CW5	Outdoor Antenna Kit	SNCA-CFW5			
	SNCA-CFADAPT	CF to PCMCIA adaptor	SNCA-CFW1 SNCA-CFW5	Powered by the connecting device	-20°C to 60°C	N/A

SCA-M30

The SCA-M30 is a ceiling microphone, designed to work with Sony Security Network Cameras for indoor use.



Features and Benefits

- Compatible with Sony Network Cameras
- Clearly picks up sound
- Strong structure against external vibration
- Easy installation
- Input sensitivity can be selected

Dimensions



Specifications

General	
Capsule type	Electret condenser
Directivity	Uni-directional
Frequency response	300 Hz to 10kHz
Sensitivity (at 1 kHz)	-40dB ¹ ±3.5dB
Signal-to-noise ratio	60dB and more (IEC179 A weighted, 1kHz, 1Pa)
Power supply	Plug in Power DC 1.5 V - 9 V
Current consumption	0.5mA and less
Output connector	φ3.5mm mini-plug (3poles) Tip-Ring short connected
Connector cable length	Approx.300 cm
Dimensions	φ126 X 55 mm
Mass	Approx. 146g (Not included cable) Approx. 225g with Bracket (Not included cable)
Supplied accessories	Bracket(1), +BV 4 x 20(2), +K 2.6 x 20(3), Operating instruction(1), Warranty booklet(1)
Applicable/compatible models	
SNC-DH180, SNC-RS84P, SNC-DH140, SNC-RS84N, SNC-RH164, SNC-CH140, SNC-RS44N, SNC-RS44P, SNC-RS46N, SNC-RS46P, SNC-RH124	

SCA-S30

The SCA-S30 is a highly durable speaker for outdoor environments. It is designed to work with Sony Network cameras and can generate loud sound by it's high efficiency digital amplifier.



Features and Benefits

- Built-in high efficiency digital amplifier
- Seamless integration with Sony Network Cameras
- Reliable and durable in outdoor environments
- Easy Installation (wall/pole fixing)

Dimensions



Specifications

General	
Frequency response	100 Hz to 15,000Hz (at 5W output power)
Reference input level (at 1 kHz)	-10dBu (0dBu = 0.775Vrms)
Output	30W and more (AC24V, 1kHz -10dBu input)
Maximum Output	35W and more (AC24V, 1kHz input)
Input impedance	20kohm +/-20% (at 1kHz)
Distortion	Less than 1% (AC24V, 30W output at 1kHz)
Signal to Noise ratio	80dB and more (IEC179A weighted, 30W, 1kHz)
Power supply	AC24 V +/- 10% 50Hz/60Hz
Power consumption	8W (AC24V, 1/8 output power)
Dimensions	φ150 x 245mm (included mount frame)
Mass	Approx. 2.4kg (included mount frame)
Operating temperature	0°C to 50°C
Storage temperature	-20°C to +60°C
Supplied accessories	Wire rope (1), +M4 x 16(1), Operating instruction(1), Warranty booklet(1)
Applicable/compatible models	
SNC-DH180, SNC-DH140, SNC-RS84P, SNC-RS84N, SNC-RH164, SNC-CH140, SNC-RS44N, SNC-RS44P, SNC-RS46N, SNC-RS46P, SNC-RH124	

SNCA-JOYSTICK1

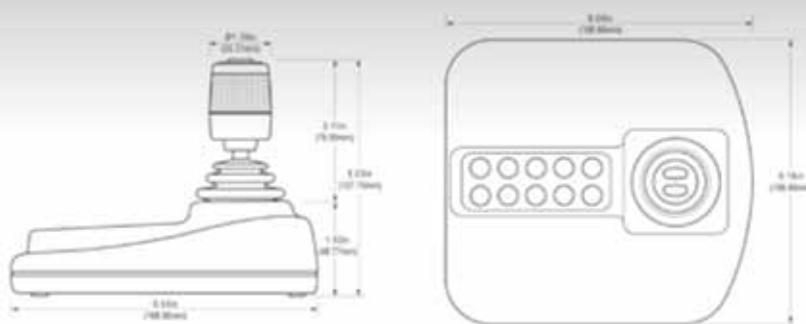
The IP Desktop USB joystick provides security professionals with intuitive P/T/Z camera control for network video surveillance applications. Featuring a three axis Hall effect joystick, twelve programmable pushbutton switches and USB interface, the IP Desktop integrates seamlessly with any software application recognizing joystick inputs via Microsoft's DirectX.



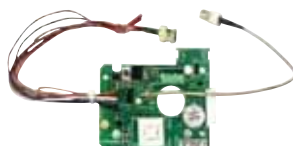
Features and Benefits

- Three axes joystick for P/T/Z control
- Programmable pushbuttons
- USB 1.1 HID compliant "game controller" device
- Easy to use and operate

Dimensions



Model	Centering	Housing	Breakout force	Operation force	Maximum force	Operating temperature	Life cycles	Supply voltage (USB bus)	Supply current (USB bus)	Approx. Dimensions W x L x H	Colour
HFX Series I, Model 1400 Option 5	Single spring, omnidirectional	High impact, glass-filled nylon	.109Nm	.151Nm	.169Nm	-40°C to +85°C	10,000,000	Vdd = 5V ± .5V	32mA	15.6 x 16.9 x 12.6 cm (6.15" x 6.65" x 4.97")	N/A



SNCA-HEATER

The SNCA-HEATER is a 24Vac Cold Weather Kit for an additional heater and blower. It is designed for outdoor dome housings in extremely cold weather. Extends the low temperature operating conditions by approx. 15°C.

SNCA-CONNECTOR/PCB YT-HU75

Green control PCB board.

Model	Description	Key features	Operating temperature	Operating voltage	Applicable Camera Models	Optional accessories	Colour	Approx. Dimensions
SNCA-HEATER	Heater blower kit		Extends lower operating temperature of housing/device by 15°C	24V, 25W	SNCA-HRX550/EXT SNCA-HRX550EXT/W	N/A	N/A	N/A
SNCA-CONNECTOR/PCB	PC board	Controls the blower and heater For outdoor models only Replacement part			SNCA-HRX550/EXT SNCA-HRX550/EXT/W SNCA-HRX550/EXT/R SNCA-HRX550/EXT/PRE SNCA-HRZ50/EXT	SNCA-HRZ50/EXT/W SNCA-HRZ50/EXT/R SNCA-HRZ25 SNCA-HRZ30		
YT-HU75	Heater unit							

SNCA-TINTED

Tinted Replacement capsule for SNCA-HRZ25 & SNCA-HRZ30.

SNCA-TINTED/2

Tinted replacement capsule for Sony 7" dome housings.



Features and Benefits

SNCA-TINTED

- Acrylic construction

SNCA-TINTED/2

- Polycarbonate construction

Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models	Optional accessories	Colour	Approx. Dimensions
SNCA-TINTED	Tinted dome	N/A	N/A	N/A	SNCA-HRZ25 SNCA-HRZ30	N/A	Tinted	8" (20.32cm) Diameter
SNCA-TINTED/2	Tinted dome, new 7" version	N/A	N/A	N/A	SNCA-HRX550/EXT SNCA-HRX550/EXT/W SNCA-HRX550/INT SNCA-HRX550/EXT/R SNCA-HRX550/EXT/PRE SNCA-HRZ50/EXT SNCA-HRZ50/EXT/W SNCA-HRZ50/INT SNCA-HRZ50/EXT/R	SNCA-RX550EXT12V	Tinted	7" (17.78cm) Diameter

SNCA-CLEAR

Clear replacement capsule for SNCA-HRZ25 & SNCA-HRZ30.

SNCA-CLEAR/2

Clear replacement capsule for Sony 7" dome housings.



Features and Benefits

SNCA-CLEAR

- Acrylic construction

SNCA-CLEAR/2

- Polycarbonate construction

Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models	Optional accessories	Colour	Approx. Dimensions
SNCA-CLEAR	Clear dome	N/A	N/A	N/A	SNCA-HRZ25 SNCA-HRZ30	N/A	Clear	8" (20.32cm) Diameter
SNCA-CLEAR/2	Clear dome, new 7" version	N/A	N/A	N/A	SNCA-HRX550/EXT SNCA-HRX550/EXT/W SNCA-HRX550/INT SNCA-HRX550/EXT/R SNCA-HRX550/EXT/PRE SNCA-HRZ50/EXT SNCA-HRZ50/EXT/W SNCA-HRZ50/INT SNCA-HRZ50/EXT/R	SNCA-RX550EXT12V	Clear	7" (17.78cm) Diameter

Compatibility Tables

Guide on which camera's fit into each housing and which housings fit with which brackets.

Cameras, Housings & Bracket Table

		IP FIXED CAMERAS										IP MINI-DOME CAMERAS										IP PTZ CAMERAS																			
		SNC-CH120	SNC-CH140	SNC-CH220	SNC-CH240	SNC-CH160	SNC-CH180	SNC-CH260	SNC-CH280	SNC-CH110	SNC-CH210	SNC-DH120	SNC-DH220	SNC-DH140	SNC-DH240	SNC-DH120T	SNC-DH220T	SNC-DH140T	SNC-DH240T	SNC-DH160	SNC-DH180	SNC-DH260	SNC-DH280	SNC-DH110	SNC-DH110T	SNC-DH210	SNC-DH210T	SNC-RZ25P	SNC-RZ50P	SNC-RX530P	SNC-RX550P	SNC-RX570P	SNC-RS44P	SNC-RS46P	SNC-RH124	SNC-RS84P	SNC-RS86P	SNC-RH164			
In-Ceiling Mount Bracket	Page No	17	21	19	23	18	22	20	24	15	16	27	29	31	33	27	29	31	33	28	32	30	34	25	25	26	26	35	36	37	38	39	42	43	40	44	45	41			
YT-ICB124	71																																								
SNCA-ICPTZ/C	64																												•	•	•	•	•	•	•	•					
SNCA-ICPTZ/T	64																												•	•	•	•	•	•	•	•					
YT-ICB140	71											•	•	•	•																										
Wall /Ceiling Mount Bracket																																									
SNCA-WMMD1	69																																								
SNCA-WMMD2	70																																								
SNCA-WMMD3	70																			•	•	•	•																		
SNCA-WMMD4	71											•	•	•	•																										
SNCA-WMFX10PC	68	•	•	•	•					•	•																														
Outdoor Housing																																									
SNCA-HRZ25	60																												•												
SNCA-HRZ50/EXT	60																													•											
SNCA-HRZ50/EXT/R	61																													•											
SNCA-HRZ50/EXT/W	61																													•											
SNCA-HRZ50/INT	62																													•											
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SNCA-HRX550/INT	57																														•	•	•	•	•	•	•				
SNCA-HFIXSTD/230	63	•	•	•	•	•	•	•	•																																
SNCA-HFIXSTD/24	64	•	•	•	•	•	•	•	•																																
Power Supply																																									
SNCA-PS12/1	74	•	•	•	•	•	•	•	•					•	•			•	•																						
SNCA-PS24/1	74	•	•	•	•	•	•	•	•					•	•			•	•																						
SNCA-PS24/4	75	•	•	•	•	•	•	•	•					•	•			•	•	•	•	•	•																		
SNCA-PS24/4E	75	•	•	•	•	•	•	•	•					•	•			•	•	•	•	•	•																		
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Housing & accessory table

		CAMERA HOUSINGS													IP PTZ CAMERAS		
		SNCA-HR225	SNCA-HR250/EXT	SNCA-HR250/EXT/R	SNCA-HR250/EXT/W	SNCA-HR250/INT	SNCA-HR550/EXT	SNCA-RX550EXT1 2V	SNCA-HR550EXT/R	SNCA-HR550EXT/W	SNCA-HR550/PRE	SNCA-HR550/INT	SNCA-HFIXSTD/230	SNCA-HFIXSTD/24	SNC-RS84P	SNC-RS86P	SNC-RH164
Mount Bracket	Page No	60	60	61	61	62	57	59	58	58	59	57	63	64	44	45	41
SNCA-CEILING (must be used with POLE30)	65		•	•	•	•	•	•	•	•	•	•	•	•			•
SNCA-POLE30	66		•	•	•	•	•	•	•	•	•	•	•	•			•
SNCA-WM20G	66	•	•	•	•	•	•	•	•	•	•	•	•	•			•
SNCA-WM20FC	67	•	•	•	•	•	•	•	•	•	•	•	•	•			•
SNCA-WM30G	67	•	•	•	•	•	•	•	•	•	•	•	•	•			•
SNCA-WM40	68	•	•	•	•	•	•	•	•	•	•	•	•	•			•
SNCA-CAFIX1	68														•	•	
SNCA-PMFIX1	68														•	•	
Power Supply																	
SNCA-PSVTSTD24	75														•		
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SNCA-CLEAR	81	•															
SNCA-CLEAR/2	81		•	•	•	•	•	•	•	•	•	•	•	•			

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A comprehensive range of indoor, outdoor and specialist housings to compliment the SONY range of camera products.

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Intelligent Motion Detection - driving actions directly from the camera.	7
IP66 - Vandal Resistent cameras for tough applications.	8
Analogue Video Output - for fast installation and set-up.	9
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Distributed Enhanced Processing Architecture (DEPA) Advanced.	12
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have immeasurable power

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connect cultures
grow economies
deliver justice
inspire education
energise entertainment
advance science
liberate imagination
capture history
even promote peace

We use the power of images to increase
business value

We turn images into assets

This is Visual Wealth

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