

## Designed for security.

Sony Professional Video Security Product Catalogue.

VERSION 7



www.pro.sony.eu/videosecurity

### VIDEO SECURITY

## The future of video security is here.

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### · Go HD Install Sony HD and Full HD cameras for high quality IP surveillance.

 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.

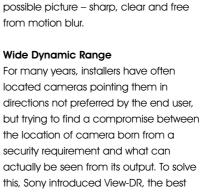
At Sony we understand that every site is different, every user has different requirements and every installer has different needs. Some sites are analogue and some are IP, some are a combination of both and some sites simply have nothing at all. The one thing which remains consistent is the demand for high quality, cost effective surveillance solutions.

Sensitivity

Sony has an impressive background in both analogue and IP technologies, and is very confident of its expertise in capturing the best possible image. As the industry moves more and more towards IP, Sony builds on its heritage by releasing cutting edge HD and Full HD cameras, whilst also developing a full range of encoders and hybrid recorders.

HD and Full HD cameras are increasingly being installed as the preferred format for high quality IP surveillance. As this demand grows, so too does the need for innovative and value added features. To satisfy this demand, Sony has introduced such features as View-DR, XDNR, Visibility Enhancer, DEPA and Adaptive IR which are now seen as vital and take the IP video surveillance industry "Beyond HD".

At Sony, we believe that selecting a camera designed for security focuses on three key points to satisfy the demand for clarity - Sensitivity, Wide Dynamic Range and Resolution.



industry at 130db.





Simply speaking, crime typically happens at night or when lighting conditions are at their worst. For this reason, Sony has focused its efforts on designing sensors that can operate in extremely low lighting conditions and have introduced a range of cameras with features such as, True Day/Night, Adaptive IR, XDNR and Visibility Enhancer. These cameras all present the best

wide dynamic range technology in the

### Resolution

Finally, there is a need for a camera that not only gives the clarity, but also has the resolution to be able to see the detail required. Be it a wide area of surveillance for an excellent overview of a site, or a much more narrowed field of view for facial or number plate registration.

Building on this need for clarity, Sony's new range of video security cameras offer significant picture quality enhancements to present images better than the human eye can visualise.



### KEY FEATURES

## Service View-DR.

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



## VIDEO SECURITY

KEY FEATURES

## 📽 View-DR.

View-DR is realized in the latest Wide-D technology, the Exmor CMOS sensor with a highspeed readout capability, and adaptive image enhancement with a Visibility Enhancer feature. Sony cameras with View-DR function can reproduce the details of objects and backgrounds, even in high-contrast conditions.

### Visibility enhanced wide Dynamic Range

## 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 bestin-class wide dynamic range at 130db.

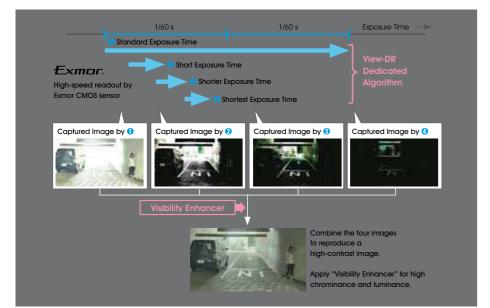
Real time, within the camera, we can take up to 120 pictures per second. Four of these pictures, each taken with a different exposure time, are then combined using a complex algorithm. Visibility Enhancer is then applied to enhance the colour tones and brightness further. As can be seen from the examples shown below, this feature is invaluable in scenes which suffer from strong backlighting. Typically installers would choose between repositioning the camera away from the back lighting, or adding artificial lighting to those areas that have been made dark. For the end user this is not the best solution, they need a camera which can be installed anywhere and gives them brilliant picture quality in all lighting conditions, all year round.

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.)

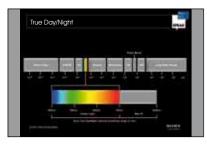
## R Illuminator.

Low visibility in dark scenes is one of the greatest challenges of HD and megapixel cameras within the video security industry, with the dilemma of high resolution or high sensitivity. With the new range of Sony IP Surveillance cameras with built in IR Illuminators, you can now have both.

Designed to work in zero lux, these cutting-edge cameras offer a significant improvement in sensitivity and clarity over rival IP and analogue cameras.

Using Sony Exmor sensors and embedded infrared LEDs, the sensitivity of the camera is maximised and, with the introduction of semi-covert IR light, distinguishing details can be identified at a distance of 15 metres without generating excessive light pollution or experiencing motion blur.

Combining the camera with the IR LEDs has a number of significant benefits. Installation time is drastically reduced while ensuring the quality of the install is maximised. Using PoE, the cost of the install can greatly be reduced as there is no need to install separate power for the camera or external IR lamp. The IR Illuminators will activate automatically when the camera detects the lighting conditions have dropped and the mechanical IR cut filter will be removed to maximise the cameras sensitivity. The camera can automatically refocus itself ensuring the image is perfectly focused, regardless of its lighting conditions, but most importantly, all our cameras with embedded IR Illuminators feature Adaptive IR.



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



### Adaptive IR

This brand new feature brings IR lighting into the 21st century, the camera can identifying an object getting closer and detect when IR light rebounds off the subject or object under surveillance. By intelligently evaluating the scene, the camera can vary the intensity of the IR illuminators enabling the camera to represent the image better than the human eye.





Adaptive IR



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

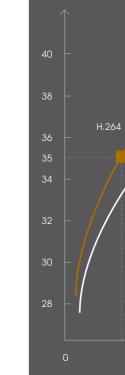
Sony Professional has adopted H.264 - the latest compression standard - in all of its latest network cameras, providing enhanced images with reduced bandwidth.

### 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.



PSNR (dB)

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

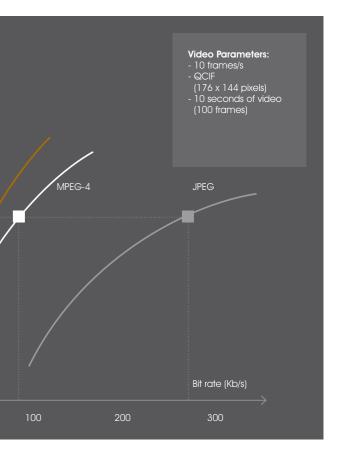
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### Reduced storage

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.



### **KEY FEATURES**

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## 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<sup>~</sup>- 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. VIDEO SECURITY

KEY FEATURES

## 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 impactresistant 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 Processina 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.



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## 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.



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## Visibility Enhancer (VE).

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



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.

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.

SONY IZELA POWER





### VIDEO SECURITY

### KEY FEATURES

## 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. VIDEO SECURITY

IP FIXED CAMERAS

## 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.

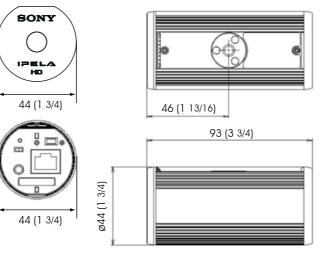
### Key Features and Benefits

- (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 k / 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	
-	1280x960, 1280x720, 1024x768, 1024x576, 768x576,
Codec image size (H x V)	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)
System Requirements	
Operating system	WindowsXP, WindowsVista (32bit), Windows7 (32bit)
Processor	Intel Core2 Duo 2 GHz or higher
Memory	1 GB or more
,	Microsoft Internet Explorer Ver6.0, 7.0, or 8.0
Web browser	Firefox Ver.3.5 (Plug-in free viewer only)
MOD DIOMSEI	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/).

Compact and Affordable 1080p 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.



**Specifications** 

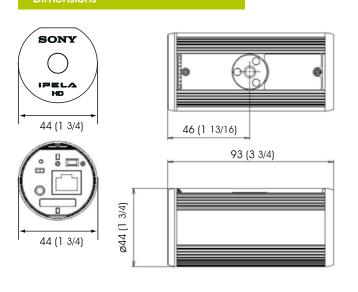
Camera

### 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
- **C** 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





Camera	
Image device	1/2.8 type progressive scan "Exmor" CMOS sensor
Minimum illumination	2.0lx (AGC 38dB / 50IRE[IP])
Number of effective pixels (HxV)	3 Megapixel (2096 x 1561)
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	Fixed
Horizontal viewing angle	88 degrees
Focal length	f=3.3 mm
F-number	F2.8
Minimum object distance	500 mm
Camera Features	300 mm
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, 704x57 800x480, 720x480, 640x480, 640x368, 334x288, 352x288, 320x240, 320x192, 176x144
Video compression format	H.264, MPEG-4, JPEG
Codec streaming capability	Dual streaming
Maximum frame rate	H.264: 15fps (1920×1080) / 30fps (1280×720) JPEG: 12fps (2048×1536) / 15fps (1920×1080) / 30fps (1280×72 MPEG-4: 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 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 video output	Mini Jack
Sensor input	x1
Analogue video output	
	NITCO / DAL
Signal system	NTSC / PAL
General	
Weight	100g (3.5 oz)
Dimensions (ø x H )	ø 44 x 93 mm (1 3/4 x 3 3/4 inches)
Power requirements	PoE (IEEE802.3af compliant)
Power consumption	2.4W
Starting temperature	0°C to 50°C (32°F to 122°F)
Working temperature	0°C to 50°C (32°F to 122°F)
Storage temperature	-20°C to +60°C (-4°F to +140°F)
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) Installation manual
Operating system	B&P Warranty Booklet FrontSheet (with logo) FrontSheet (without logo)
	Sensor input cable

\* The SNC-CH210 includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit

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## SNC-CH120

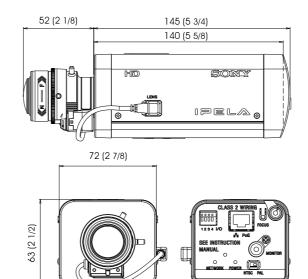
High-Quality 720p HD Security Camera. Excellent 720p HD picture quality, supporting H.264 at 30 fps. 1.3 Megapixel (1280 x 1024) maximum resolution. Three codecs (H.264, MPEG-4, JPEG) and a dual streaming capability. The "Exmor" CMOS sensor incorporated to realize high image quality and low noise.

### 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
- REC 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

- 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







### **Specifications**

Camera	
Image device	1/3 type progressive scan "Exmor" CMOS sensor
Minimum illumination	Colour: 0.50lx, BW: 0.30lx (F1.2/ AGC 42dB / 50lRE [IP])
Number of effective pixels (HxV)	1.4 Megapixel (1329 x 1049)
Electronic shutter	1s to 1/1000s
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 Powered Focus	300 mm Yes (Easy Focus)
	tes (Edsy 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 × 63 mm × 145 mm (2 7/8 inches × 2 1/2 inches × 5 3/4 inches) not including the projecting parts 72 mm × 63 mm × 197 mm (2 7/8 inches × 2 1/2 inches × 7 7/8 inches) with lens not including the projecting parts
Power requirements	PoE (IEEE802.3af compliant)
Power consumption	5.0 W max.
Starting temperature	0°C to 50°C (32°F to 122°F)
Operating temperature	-10°C to +50°C (14°F to 122°F)
Storage temperature	-20°C to +60°C (-4°F to +140°F)
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/).

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.

# HD SONY INELA

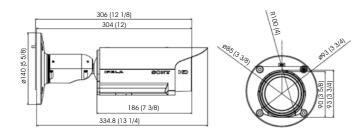
### Key Features and Benefits

- 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







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 Maximum frame rate	Dual streaming 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 Operating temperature	-20 to +50 °C (-4 to +122°F) -30 to +50 °C (-22 to +122°F)
Storage temperature	-20 to +60 °C (-22 to +122 P)
Ingress protection	IP66
, .	iroo
System Requirements	
Operating system	Microsoft Windows XP, Windows Vista(32bit), Windows 7(32bit)
Processor	Intel Core2 Duo 2 GHz or higher
Memory Web browser	1 G8 or more 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-CH100 includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (www.openssl.org/). VIDEO SECURITY

IP FIXED CAMERAS

## SNC-CH220

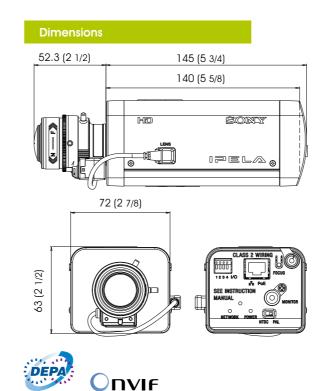
High-Quality 1080p HD Security Camera. Excellent 1080p HD picture quality, supporting H.264 at 30 fps. 3 Megapixel (1920 x 1440) maximum resolution. Three codecs (H.264, MPEG-4, JPEG) and a dual streaming capability. The Exmor CMOS sensor incorporated to realize high image quality and low noise.

### 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





### **Specifications**

Camera	
Image device	1/2.8 type progressive scan "Exmor" CMOS sensor
Minimum illumination	0.70lx (Colour), 0.45lx (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	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
Notwork	
Network	
Protocols	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client only), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP (MIB-2)
	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client only), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP (MIB-2) Yes
Protocols	(client only), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP (MIB-2)
Protocols ONVIF conformance	(client only), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP (MIB-2) Yes
Protocols ONVIF conformance Number of clients	(client only), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP (MIB-2) Yes 5
Protocols ONVIF conformance Number of clients Authentication Interface	(client only), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP (MIB-2) Ves 5 IEEE802.1X
Protocols ONVIF conformance Number of clients Authentication Interface Ethemet	(client only), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP (MIB-2)
Protocols ONVIF conformance Number of clients Authentication Interface Ethernet Analogue monitor output	(client only), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP (MIB-2) Ves 5 IEEE802.1X
Protocols ONVIF conformance Number of clients Authentication Interface Ethernet Analogue monitor output Sensor input	(client only), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP (MIB-2) Yes 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) Phono jack x 1 (1.0 Vp-p, 75 ohms, unbalanced, sync negative)
Protocols ONVIF conformance Number of clients Authentication Interface Ethernet Analogue monitor output	(client only), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP (MIB-2) Yes 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) Phono jack x 1 (1.0 Vp-p, 75 ohms, unbalanced, sync negative) x 1, make contact, break contact
Protocols ONVIF conformance Number of clients Authentication Interface Ethernet Analogue monitor output Sensor input	(client only), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP (MIB-2) Yes 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) Phono jack x 1 (1.0 Vp-p, 75 ohms, unbalanced, sync negative) x 1, make contact, break contact x 1, 24V AC/DC, 1A
Protocols ONVIF conformance Number of clients Authentication Interface Ethernet Analogue monitor output Sensor input Alarm output	(client only), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP (MIB-2) Yes 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) Phono jack x 1 (1.0 Vp-p, 75 ohms, unbalanced, sync negative) x 1, make contact, break contact x 1, 24V AC/DC, 1A
Protocols ONVIF conformance Number of clients Authentication Interface Ethernet Analogue monitor output Sensor input Alarm output Analogue video output	(client only), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP (MIB-2) Yes 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) Phono jack x 1 (1.0 Vp-p, 75 ohms, unbalanced, sync negative) x 1, make contact, break contact x 1, 24V AC/DC, 1A (mechanical relay outputs electrically isolated from the camera)
Protocols ONVIF conformance Number of clients Authentication Interface Ethernet Analogue monitor output Sensor input Alarm output Analogue video output Signal system	(client only), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP (MIB-2) Yes 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) Phono jack x 1 (1.0 Vp-p, 75 ohms, unbalanced, sync negative) x 1, make contact, break contact x 1, 24V AC/DC, 1A (mechanical relay outputs electrically isolated from the camera)
Protocols ONVIF conformance Number of clients Authentication Interface Ethernet Analogue monitor output Sensor input Alarm output Analogue video output Signal system General	(client only), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP (MIB-2) Yes 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) Phono jack x 1 (1.0 Vp-p, 75 ohms, unbalanced, sync negative) x 1, make contact, break contact x 1, 24V AC/DC, 1A (mechanical relay outputs electrically isolated from the camera) NTSC / PAL
Protocols ONVIF conformance Number of clients Authentication Interface Ethernet Analogue monitor output Sensor input Alarm output Analogue video output Signal system General Weight	(client only), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP (MIB-2) Yes 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) Phono jack x 1 (1.0 Vp-p, 75 ohms, unbalanced, sync negative) x 1, make contact, break contact x 1, 24V AC/DC, 1A (mechanical relay outputs electrically isolated from the camera) NTSC / PAL 550 g (1 lb 3 oz) with lens
Protocols ONVIF conformance Number of clients Authentication Interface Ethemet Analogue monitor output Sensor input Alarm output Alarm output Analogue video output Signal system General Weight Dimensions (ø x H )	(client only), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP (MIB-2) Yes 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) Phono jack x 1 (1.0 Vp-p, 75 ohms, unbalanced, sync negative) x 1, make contact, break contact x 1, 24V AC/DC, 1A (mechanical relay outputs electrically isolated from the camera) NTSC / PAL 550 g (1 lb 3 oz) with lens 72 x 63 x 197.3 mm (2 7/8 x 2 1/2 x 7 3/4 inches)
Protocols ONVIF conformance Number of clients Authentication Interface Ethemet Analogue monitor output Sensor input Alarm output Alarm output Signal system General Weight Dimensions (Ø x H ) Power requirements	(client only), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNIMP (MIB-2) Yes 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) Phono jack x 1 (1.0 Vp-p, 75 ohms, unbalanced, sync negative) x 1, make contact, break contact x 1, 24V AC/DC, 1A (mechanical relay outputs electrically isolated from the camera) NTSC / PAL 550 g (1 lb 3 oz) with lens 72 x 63 x 197.3 mm (2 7/8 x 2 1/2 x 7 3/4 inches) PoE (IEEE802.3af compliant)
Protocols ONVIF conformance Number of clients Authentication Interface Ethernet Analogue monitor output Sensor input Alarm output Analogue video output Signal system General Weight Dimensions (Ø x H ) Power requirements Power consumption	(client only), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP (MIB-2) Yes 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) Phono jack x 1 (1.0 Vp-p, 75 ohms, unbalanced, sync negative) x 1, make contact, break contact x 1, 24V AC/DC, 1A (mechanical relay outputs electrically isolated from the camera) NTSC / PAL 550 g (1 lb 3 oz) with lens 72 x 63 x 197.3 mm (2 7/8 x 2 1/2 x 7 3/4 inches) POE (IEEE802.3af compliant) 5.0 W Max.
Protocols ONVIF conformance Number of clients Authentication Interface Ethernet Analogue monitor output Sensor input Alarm output Alarm output Analogue video output Signal system General Weight Dimensions (Ø x H ) Dimensions (Ø x H ) Power requirements Power consumption	(client only), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP (MIB-2) Yes 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) Phono jack x 1 (1.0 Vp-p, 75 ohms, unbalanced, sync negative) x 1, make contact, break contact x 1, 24V AC/DC, 1A (mechanical relay outputs electrically isolated from the camera) NTSC / PAL 550 g (1 lb 3 oz) with lens 72 x 63 x 197.3 mm (2 7/8 x 2 1/2 x 7 3/4 inches) PoE (IEEE802.3af compliant) 5.0 W Max. 0 °C to 50 °C (32 °F to 122°F)
Protocols ONVIF conformance Number of clients Authentication Interface Ethernet Analogue monitor output Sensor input Alarm output Analogue video output Signal system General Weight Dimensions (Ø x H ) Power requirements Power consumption Starting temperature Operating temperature Storage temperature	(client only), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP (MIB-2)           Yes           5           IEEE802.1X           10BASE-T / 100BASE-TX (RJ-45)           Phono jack x 1 (1.0 Vp-p, 75 ohms, unbalanced, sync negative)           x 1, make contact, break contact           x 1, 24V AC/DC, 1A           (mechanical relay outputs electrically isolated from the camera)           NTSC / PAL           6           72 x 63 x 197.3 mm (2 7/8 x 2 1/2 x 7 3/4 inches)           Poc [IEEB802.3ct compliant]           5.0 W Max.           0 °C to 50 °C (32 °F to 122 °F)           -10 °C to +50 °C (14 °F to 122 °F)
Protocols ONVIF conformance Number of clients Authentication Interface Ethernet Analogue monitor output Sensor input Alarm output Analogue video output Signal system General Weight Dimensions (Ø x H ) Power requirements Power consumption Starting temperature Operating temperature Storage temperature System Requirements	(client only), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP (MIB-2) Yes 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) Phono jack x 1 (1.0 Vp-p, 75 ohms, unbalanced, sync negative) x 1, make contact, break contact x 1, 24V AC/DC, 1A (mechanical relay outputs electrically isolated from the camera) NTSC / PAL 550 g (1 lb 3 oz) with lens 72 x 63 x 197.3 mm (2 7/8 x 2 1/2 x 7 3/4 inches) PoE (IEEE802.3df compliant) 5.0 W Max. 0 °C to 50 °C (32 °F to 122 °F) -10 °C to +50 °C (14 °F to 122 °F) -20 °C to +60 °C (-4 °F to +140 °F)
Protocols ONVIF conformance Number of clients Authentication Interface Ethemet Analogue monitor output Sensor input Alarm output Anaro output Signal system General Weight Dimensions (Ø x H ) Power requirements Power consumption Starting temperature Storage temperature System Requirements Operating system	(client only), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNIMP (MIB-2)         Yes         5         IEEE802.1X         10BASE-T / 100BASE-TX (RJ-45)         Phono jack x 1 (1.0 Vp-p, 75 ohms, unbalanced, sync negative)         x 1, anake contact, break contact         x 1, 24V AC/DC, 1A         (mechanical relay outputs electrically isolated from the camera)         NTSC / PAL         550 g (1 lb 3 oz) with lens         72 x 63 x 197.3 mm (2 7/8 x 2 1/2 x 7 3/4 inches)         PoE (IEEE802.3af compliant)         5.0 W Max.         0 °C to 50 °C (14 °F to 122 °F)         -10 °C to +60 °C (-4 °F to +140 °F)         Microsoft Windows XP, Windows Vista(32bit), Windows 7(32bit)
Protocols ONVIF conformance Number of clients Authentication Interface Ethemet Analogue monitor output Sensor input Alarm output Alarm output Alarm output Signal system General Weight Dimensions (Ø x H ) Power requirements Power consumption Starting temperature Operating temperature Storage temperature Storage temperature System Requirements Processor	(client only), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNIMP (MIB-2)         Yes         5         IEEE802.1X         10BASE-T / 100BASE-TX (RJ-45)         Phono jack x 1 (1.0 Vp-p, 75 ohms, unbalanced, sync negative)         x 1, make contact, break contact         x 1, 24V AC/DC, 1A         (mechanical relay outputs electrically isolated from the camera)         NTSC / PAL         550 g (1 lb 3 oz) with lens         72 x 63 x 197.3 mm (2 7/8 x 2 1/2 x 7 3/4 inches)         PoE (IEEE802.3af compliant)         5.0 W Max.         0 °C to 50 °C (32 °F to 122 °F)         -10 °C to +60 °C (14 °F to +120 °F)         -20 °C to +60 °C (-4 °F to +140 °F)         Microsoft Windows XP, Windows Vista(32bit), Windows 7(32bit)         Intel Core2 Duo 2 GHz or higher
Protocols ONVIF conformance Number of clients Authentication Interface Ethernet Analogue monitor output Sensor input Alarm output Alarm output Signal system General Weight Dimensions (Ø x H ) Power requirements Power consumption Starting temperature Operating temperature Storage temperature System Requirements Operating system	(client only), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNIMP (MIB-2)         Yes         5         IEEE802.1X         10BASE-T / 100BASE-TX (RJ-45)         Phono jack x 1 (1.0 Vp-p, 75 ohms, unbalanced, sync negative)         x 1, anake contact, break contact         x 1, 24V AC/DC, 1A         (mechanical relay outputs electrically isolated from the camera)         NTSC / PAL         550 g (1 lb 3 oz) with lens         72 x 63 x 197.3 mm (2 7/8 x 2 1/2 x 7 3/4 inches)         PoE (IEEE802.3af compliant)         5.0 W Max.         0 °C to 50 °C (14 °F to 122 °F)         -10 °C to +60 °C (-4 °F to +140 °F)         Microsoft Windows XP, Windows Vista(32bit), Windows 7(32bit)
Protocols ONVIF conformance Number of clients Authentication Interface Ethemet Analogue monitor output Sensor input Alarm output Alarm output Alarm output Signal system General Weight Dimensions (Ø x H ) Power requirements Power consumption Starting temperature Operating temperature Storage temperature Storage temperature System Requirements Processor Memory	(client only), SMIP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNIMP (MIB-2) Yes 5 1EEE802.1X 10BASE-T / 100BASE-TX (RJ-45) Phono jack x 1 (1.0 Vp-p, 75 ohms, unbalanced, sync negative) x 1, make contact, break contact x 1, 24V AC/DC, 1A (mechanical relay outputs electrically isolated from the camera) NTSC / PAL 550 g (1 lb 3 oz) with lens 72 x 63 x 197.3 mm (2 7/8 x 2 1/2 x 7 3/4 inches) PoE (IEEE802.3d compliant) 5.0 W Max. 0 °C to 50 °C (32 °F to 122 °F) -20 °C to +60 °C (14 °F to 122 °F) -20 °C to +60 °C (-4 °F to +140 °F) Microsoft Windows XP, Windows Vista(32bit), Windows 7(32bit) Intel Care2 Duo 2 GHz or higher 1 GB or more 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)

\*1 Removable IR Cut Filter.

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

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.



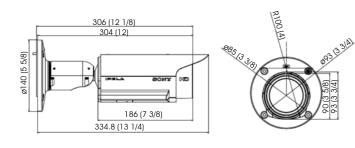
**Specifications** 

### 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
- Q 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



DEPA 

Camera	
Image device	1/2.8 type progressive scan "Exmor" CMOS sensor
Minimum illumination	Colour: 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 1 440, 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
	x 1, 24V AC/DC, 1A
Alarm output	(mechanical relay outputs electrically isolated from the carner
Analogue video output	
Signal system	NTSC / PAL
General	
Weight	1520g (3 lb 6 oz)
	Ø93 x 186 mm (3 3/4 x 7 3/8 inches)
Dimensions (ø x H )	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
System Requirements	100
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,

\*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/).

Wire rope, +M4x8 screw, Warranty Booklet, Template

VIDEO SECURITY

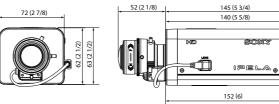
## SNC-CH140

Sony introduces the powerful addition to its network HD camera lineup, the SNC-CH140. This dual-stream network HD camera, supporting H.264, MPEG-4, and JPEG compression formats, deliver excellent picture quality in HD 720p resolution at 30 frames per second (fps). Incorporating the new "Exmor™" CMOS image sensor from Sony, which is specially designed for surveillance applications, this camera features state-of-the-art image-enhancement technology, such as View-DR which realizes an extremely wide dynamic range.

### Key Features and Benefits

<ul> <li>View-DR enhanced wide Dynamic range technology. Superior performance in high contrast lighting conditions</li> <li>XDNR noise reduction technology. Noise and Ghost free images with superior sensitivity in low light conditions</li> <li>Easy focus function. Automatic adjustment of image focusing simplifies installation</li> <li>DEPA Advanced analytics. Advanced, powerful intelligent video analytics deliver enhanced system performance</li> <li>Equipped with a CF slot for on-board recording and wireless operation capability with the optional SNCA-CFW5 802.11g card</li> <li>Visibility Enhancer. Enhanced wide dynamic range improves performance in challenging lighting conditions</li> </ul>
<ul> <li>images with superior sensitivity in low light conditions</li> <li>Easy focus function. Automatic adjustment of image focusing simplifies installation</li> <li>DEPA Advanced analytics. Advanced, powerful intelligent video analytics deliver enhanced system performance</li> <li>Equipped with a CF slot for on-board recording and wireless operation capability with the optional SNCA-CFW5 802.11g card</li> <li>Visibility Enhancer. Enhanced wide dynamic range improves performance in challenging lighting conditions</li> </ul>
<ul> <li>focusing simplifies installation</li> <li>DEPA Advanced analytics. Advanced, powerful intelligent video analytics deliver enhanced system performance</li> <li>Equipped with a CF slot for on-board recording and wireless operation capability with the optional SNCA-CFW5 802.11g card</li> <li>Visibility Enhancer. Enhanced wide dynamic range improves performance in challenging lighting conditions</li> </ul>
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 VE Visibility Enhancer. Enhanced wide dynamic range improves performance in challenging lighting conditions
operation capability with the optional SNCA-CFW5 802.11g card Visibility Enhancer. Enhanced wide dynamic range improves performance in challenging lighting conditions
improves performance in challenging lighting conditions
Standard Features and Benefits
• <b>Triple codec support.</b> (H.264, MPEG-4, JPEG) and dual streaming capability
• Superior HD picture quality, supporting H.264 at 30 fps (1280 x 720)

- Onvif support. Maximum interoperability and flexibility with a wide range of manufacturers' network video products
- Power over Ethernet (PoE) capability







### **Specifications**

Winn Rut In Rut In Rut In         VE OFF/AGC High/S0 IEE[P])           Number of effective pakes [KW]         Approx.1 A Megapokel           Electronic shutter speed         1s to 1/10.000s           Auto gain control (AGC)         Max gain setting LOW, MID, HGH           Exposure control         Auto, EV Compensation*1, Auto Saw Shutter*3           White backance modes         Auto (AW, AW-Pro), Preset, One-push WB, Manual           Lens type         C Shourt Irens           Scon ratio         Auto (AW, AW-Pro), Preset, One-push WB, Manual           Francher         F1.2 (wide), F1.9 (rele)           Easy Focus         Yes (Easy Focus)           Easy Zoom         No           Cameral Fortures         Yes           Day/Night*3         Yes           Wide-D         View-DR** (125 dB: Theoretica)]           Image enhancement         Yoskilly Enhancer           Nolse reduction         XDNR           Image enhancement         Yoskilly Enhancer           Video compression format         H.264 (MPEG-4, JPEG           Audio compression         G.711/G.726           Scene analytics         Yes (With bull-In Post Filter)           Intelligent notification         Yes (With bull-In Post Filter)           Intelligent object detection         No	Camera	
Wall Addition Mathematical Stress         VE OFF/AGC High/S0 IEE[F])           Number of effective pakel (HV)         Approx.1 A Megapokel           Electronic shufter speed         Is to 1/10.000s           Auto gain control (AGC)         Max gain setting LOW, MID, HiGH           Exposure control         Auto, EV Compensation*1, Auto Saw Shufter*2           White backnee modes         Auto (AW, AIV-Po), Preset, One-push WB, Manual           Lens type         CCS Mount Iens           Zoom ratio         Approx.2.9X           Hotzontal viewing angle         33.910 66.5°           Focal length         If -2.8 b 8.0mm           Frumber         F1.2 (wida), F1.9 (rele)           Easy Zoom         No           Constration         Yes (Easy Focus)           Easy Zoom         No           Codec Image enhancement         Visbilling Enhancer           Noise reduction         XDNR           Inage enhancement         Visbilling Enhancer           Video compression format         H.264 / MPEG-4, JPEG           Audio compression         G.711/G.726           Scene analylics         Intelligent motor detection           Intelligent notioect formance         No           Video compression         G.711/G.726           Scene analylics <t< td=""><td>Image device</td><td>1/3-type progressive scan "Exmor" CMOS sensor</td></t<>	Image device	1/3-type progressive scan "Exmor" CMOS sensor
Bectonic shuffer speed         1s to 1/10.000s           Auto gain control (ACC)         Max gain setting LOW, MID, HGH           Exposure control         Auto, EV compensation*1, Auto Sow Shuffer*2           White balance modes         Auto (AIW, AIW-Proj. Preset, One-push W8, Manual           Lens type         CS Mount lens           Zoom ratio         Approx. 2.9X           Hotzontal viewing angle         33.9 to 65.5*           Focal length         Fr-2.8 to 8.0mm           Fruncher         F1.2 (wde), F1.9 (tele)           Easy Zoom         No           Camera Factures         No           Doy/Night**         Yes           Wide-D         View-DPe** (125 dis Theoretical)           Image enhancement         Visbility Enhancer           Noise reduction         XDNR           Mode compression format         H.264, MPEG-4, JPEG           Audio compression format         H.264, MPEG-4, JPEG           Audio compression format         H.264, MPEG-4, JPEG           Audio compression format         Yes (with built-in Past Filter)           Intelligent notion detection         Yes (with potional**)           Namber of clients         10           Autho compression format         Yes (With potional**)           Network         Yes		Colour : 0.20 lx, B/W : 0.10 lx (F1.2/View-DR OFE/XDNR ON-Middle
Auto gain scrittig LOW, MID, HIGH           Exposure control         Auto, EV Compensation**, Auto Sov Shuffer**           While balances         Auto (AW, AW-Pol, Pised, One-pusk WB, Manual           Lens hype         CS Mount Iens           Zoom ratio         Approx. 29X           Hotcontol 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         Was gains focus           Easy Focus         No           Camera Features         OpyNingfr**           DogNingfr**         Yes           Wole-D         View-DR** (125 d8: Theoretical)           Image enhancement         Visibility Enhancer           Noise reduction         XDNR           Teage         765, 1024 x 576, 800 x 480, 768 x 576, 440 x 480, 440 x 430, 440 x 36           Video compression format         H.264/WPEG-4/JEG: 30 tps (1280 x 720)           Audio compression         G.711/G.726           Scene analytics         No           Intelligent todion detection         No           Network         Yes (With optional**)           Potocols         Pv4, Iv4, TCP, LDP, AP, CMP, ICMP, IMP, HTPS, FIP (clerif           Network         Yes (with optional**)	Number of effective pixels (HxV)	Approx. 1.4 Megapixel
Epocure control         Auto, EV Compensation**, Auto Slow Shutter*3           White balance modes         Auto (AW, AW-Po), Preef, One-push WB, Manual           Lens type         CSM Worth Ens           Zoom ratio         Approx. 2.9X           Hotzontal viewing angle         3.3 9 to 6.5°           Focal length         I=1.2 (wide), F.1.9 (tele)           Easy Tocus         Yes (Easy Focus)           Easy Tocus         Yes (Easy Focus)           Easy Tocus         Yes (Easy Focus)           Easy Tocus         Yes           Universe         Yes           Wide-D         View-DR**1 (125 dB: Theoreticcol)           Image enhancement         Visibility Enhancer           Noise reduction         XDNR           Image enhancement         Visibility Enhancer           Noise reduction         XDNR           Image enhancement         H.264, MPEG-4, JPEG           Madio compression format         H.264, MPEG-4, JPEG           Madio compression format         H.264, MPEG-4, JPEG           Madio compression         G.711/G.726           Scene analytics         Yes           Intelligent motion detection         Yes           Intelligent motion detection         Yes           No         Yes <td>Electronic shutter speed</td> <td>1s to 1/10,000s</td>	Electronic shutter speed	1s to 1/10,000s
White balance modes         Auto (AIW, AIW-Pro), Preset, One-push WB, Manual Lens type           CS Mount Irens         CS Mount Irens           Com ratio         Approx. 2.9X           Hotizontal viewing angle         33.9 to 96.5"           Focal length         F=2.8 to 8.0mm           F-IL (2) wide), F1.9 (tele)         Easy Zoom           Commer Footures         View-DR**1 (125 di: Theoretical)           Day/Night*3         Yes           Orage Footures         View-DR**1 (125 di: Theoretical)           Unage enhancement         View-DR**1 (125 di: Theoretical)           Nose reduction         XDNR           Unage enhancement         View-DR**1 (125 di: Theoretical)           Nose reduction         XDNR           Video compression format         H.264, NPEG-4, JPEG           Audio compression format         H.264, NPEG-4, JPEG           Audio compression         G.711/G.726           Scene analytics         Intelligent notion detection           Intelligent notion detection         No           No         Servert, SMIP, DKPC, DNS, NP, RIPR/CP, RISP, SMP (MB-2)           ONIF conformance         Ves           Wireless network         Yes (with optional**)           Number of clients         10           Authoroutal, MC NUP, RIPR/CP	Auto gain control (AGC)	Max gain setting LOW, MID, HIGH
Lens type CS Mount lens Zoom rotio Approx. 2.9X Hotconfol Vewing angle 33.9 to 96.5° Focal length f=2.8 to 8.0mm F-number F=1.2 (wide), F1.9 (tele) Easy Focus Ves (Easy Focus) Easy Zoom No <b>Contract Features</b> Day/Night** Ves Wide-D View-DR** (125 d8: Theoretical) Image enhancement Visbillity Enhancer Noise reduction XDNR <b>Codec image size</b> (H x V) 768, 1024, 756, 800 x 480, 768 x 576, 640 x 480, 440 x 36 384 x 288, 320 x 240, 320 x 192 Video compression format H=264/MFEG-4_JFEG-3 01 ps (1280 x 720, 1024 x 768, 1024 x 576, 800 x 480, 768 x 576, 640 x 480, 440 x 36 384 x 288, 320 x 240, 320 x 192 Video compression format H=264/MFEG-4_JFEG-3 01 ps (1280 x 720, 1024 x 768, 1024 x 576, 800 x 480, 440 x 36 384 x 288, 320 x 240, 320 x 192 Video compression format H=264/MFEG-4_JFEG-3 01 ps (1280 x 720, 1024 x 768, 1024 x 576, 800 x 480, 440 x 36 384 x 288, 320 x 240, 320 x 192 Video compression format H=264/MFEG-4_JFEG-3 01 ps (1280 x 720, 1024 x 768, 1024 x 576, 800 x 480, 440 x 36 384 x 288, 320 x 240, 320 x 192 Video compression format H=264/MFEG-4_JFEG-3 01 ps (1280 x 720, 1024 x 768, 1024 x 576, 800 x 480, 440 x 36 384 x 288, 320 x 240, 320 x 192 Video compression format H=264/MFEG-4_JFEG-3 01 ps (1280 x 720, 1024 x 768, 1024 x 576, 800 x 480, 440 x 36 384 x 288, 320 x 240, 320 x 192 Video compression format H=2640 No Network Ves (with polining PS (PLC)_DB, MP, REPRICE, REPS, 9NWP (MB-2) ON/F conformance Ves Wreitess network Ves (with colinal**) Number of clients 10 Authentication HEFGGO No Card slots CF card x1 Analogue video output Mini-jack (monaural), Max output level: 1 Vims Analogue video output Mini-ja	Exposure control	Auto, EV Compensation*1, Auto Slow Shutter*2
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 Zoom         No           Camera Factures         No           Doy/Night*3         Yes           Wide-D         View-DR* (12.5 dB: Theoretical)           Image enhancement         XDNR           Mage         Yes           Codec image size (H x V)         766, 1024 x 576, 800 x 480, 768 x 576, 640 x 480, 640 x 33           Xideo compression format         H.264/NPEG-4/JPEG           Audio compression format         H.264/NPEG-4/JPEG           Audio compression format         Yes (with built-in Post Filter)           Intelligent motion detection         Yes (with built-in Post Filter)           Intelligent object detection         No           Network         Yes (with pult-in Post Filter)           Intelligent object detection         No           Number of clients         10           Autheritication         Yes (with pult-in Post Filter)           Intelligent notion detection         Yes (with optional**)           Number of clients         10           Autheritication         Yes (with optional**)	White balance modes	Auto (ATW, ATW-Pro), Preset, One-push WB, Manual
Hotizontal viewing angle         33.9 to 96.5°           Focal length         f=2.8 to 8.0mm           Fnumber         F1.2 (wide), F1.9 (tele)           Easy Focus         Yes (Easy Focus)           Easy Zoom         No           Control Febtures         No           Day/Night*3         Yes           Wide-D         View-DR**(125 dis: Theoretical)           Image enhancement         View-DR**(125 dis: Theoretical)           Noise reduction         XDNR           Mage enhancement         View-DR**(125 dis: Theoretical)           Video compression format         H.264.0 x480, 766 x576, 640 x480, 640 x433           Video compression format         H.264/MPEG-4/JPEG: 30 fps (1280 x 720) 1024 x 576, 800 x 480, 766 x 576, 640 x 480, 640 x 33           Video compression format         H.264/MPEG-4/JPEG: 30 fps (1280 x 720)           Audio compression         G-71 1/G-726           Scene analytics         File           Intelligent motion detection         Yes (with built-in Pot Filter)           Intelligent object detection         No           Network         Yes           Wrieless network         Yes (with optinont**)           Number of clients         10           Autio entropeone input         Revert, SMP, REP, CDN, NR, RP/RTM, CP, RSP, SNMP, RRP, REP, Client/<	Lens type	CS Mount lens
Focal length     f=2.8 to 8.0mm       F-number     F1.2 (wide), F1.9 (tele)       Easy Zoom     No       Cometa Features     Ves (Easy Focus)       Day/Night*3     Yes       Wide-D     View-DR*4 (125 d8: Theoretical)       Image enhancement     View-DR*4 (125 d8: 200 x 800, 1280 x 720, 1024 x 576, 800 x 800, 280 x 576, 640 x 480, 640 x 36       Codec image size (H x V)     766, 1024 x 576, 800 x 800, 780 x 920, 1280 x 720, 1024 x 576, 800 x 800, 270 x 1024 x 576, 800 x 800, 1700 x 1010 x 100 x 10	Zoom ratio	Approx. 2.9X
Fnumber       F1.2 (wide), F1.9 (tele)         Easy Focus       Yes (Easy Focus)         Easy Zoom       No         Comera Factures       No         Doy/Nght*3       Yes         Image enhancement       View-DR*4 (125 dB: Theoretical)         Image enhancement       View-DR*4 (125 dB: Theoretical)         Image enhancement       View-DR*4 (125 dB: Theoretical)         Image enhancement       View-DR*4 (125 dB: Storetical)         Image enhancement       XDNR         Image enhancement       XDNR         Image enhancement       XDNR         View-DR*4 (125 dB: Storetical)       XDNR         Image enhancement       XDNR         View compression format       H.264/MPEG-40/PEG: 300 ts (1280 x 720, 1024 x 720, 1024 x 736, 1280 x 720, 1024 x 736, 320 x 240, 320 x 240, 320 x 129.         Audio compression format       H.264/MPEG-40/PEG: 300 ts (1280 x 720, 1024 x 768, 1024 x 736, 320 x 240, 320 x 120, 320 x 120         Audio compression       G.711/G.726         Seene analytics       Intelligent tools of the storetical         Intelligent toolect detection       No         Network       Yes (with policonat*)         Protocols       IPv4. Pv5 (Yet) OPDION*1*(MB-2)         ONF conformance       Yes         Wrieless nehavick <t< td=""><td>Horizontal viewing angle</td><td>33.9 to 96.5°</td></t<>	Horizontal viewing angle	33.9 to 96.5°
Easy Focus No Yes (Easy Focus) Easy Zoom No Comerce Features Doy/Night*3 Yes Support (125 dis: Theoretical) Image enhancement Visibility Enhancer Noise reduction XDNR Image (1280 x 1024, 1280 x 960, 1280 x 700, 1024 x 768, 1024 x 576, 800 x 480, 640 x 480, 760, 720, 1024 x 768, 1024 x 280, 320 x 120, 320 x 192 Video compression format H.264/MPEG-4J,JPEG: 30 fps (1280 x 720) Audio Conformance Yes With built-in Post Filter) Intelligent tobject detection No Network Yes (with optional**) Number of clients 100 Authentication Here, Strip (PLP, DPS, NIP, INTP, CMP, HTTP, HTTPS, FTP (Clent)/ Seriel Interface No Card slots CF card x1 Analogue video output Composite video (1Vp-p) Sensor input X1 Audio Ime output Mini-jack (monaural), Max output level: 1 Virns Analogue video output X1 Analogue vi	Focal length	f=2.8 to 8.0mm
Easy Zoom No Camero Fedures Day/Night** Ves UdevDarver Fedures Day/Night** Ves View-DR** (125 dB: Theoretical) Image enhancement Visibility Enhancer Noise reduction No Image Codec image size (H x V) 768, 1024 x 576, 800 x 480, 7280 x 576, 640 x 480, 640 x 36 384 x 288, 320 x 240, 320 x 192 Video compression format H.264, MPEG-4, JPEG Maximum frame rate H.264/MPEG-4, JPEG Maximum frame rate H.264/MPEG-4, JPEG Audio Compression G.711/G.726 Seene analytics Intelligent notion detection No Network Protocols Protocols Prever, SMIP, DECP, DDS, MPP, RIPP, RTPP, RTPP, RTP, RTP, RTP, RTP, RTP,	F-number	F1.2 (wide), F1.9 (tele)
Camera Features           Day/Nght*3         Yes           Wide-D         View-DR*4 (125 dB: Theoretical)           Image enhancement         VUIW-DR*4 (125 dB: Theoretical)           Image enhancement         XDNR           Image enhancement         XDNR           Codeo image size (H x V)         768, 1024, 576, 800 x 480, 768 x 576, 460 x 480, 640 x 36 384 x 288, 320 x 240, 320 x 192           Video compression format         H.264/MPEG-4, JPEG           Maximum frame rate         H.264/MPEG-4, JPEG           Audio compression         G.711/G.726           Scene analytics         Intelligent motion detection           Intelligent object detection         No           Network         IPv4, IPv6, TCP, LDP, ARP, ICMP, KMP, HTP, HTPS, FIP (client/ server), SMIP, DHCP, DNS, MP, RIPR/TCP, RISP, SNIVP (MB-2)           ONN to conformance         Yes           Wireless network         Yes (with optional*5)           Number of clients         10           Authentication         IEEE802.1X           Interface         No           Serial Interface         No           Card slots         CF card x1           Analogue video output         Xal           Analogue video output         Mini-jack (monaural), MC INUNE N: 2.5 VDC plug-in power           Audo in	Easy Focus	Yes (Easy Focus)
Day/Night*3       Yes         Wide-D       View-DR*4 [125 dB: Theoretical]         Image enhancement       Visibility Enhancer         Noise reduction       XDNR         Image       1280 x 1024, 1280 x 960, 1280 x 800, 1280 x 720, 1024 x 768, 800, 440 x 768 x 576, 640 x 480, 768 x 720)         Audio compression format       IH-264/MPEG-4/JPEG-30 fps [1280 x 720]         Audio       G. 711/G.726         Scene analytics       Intelligent noise detection         Intelligent notion detection       Yes (with built-In Post Filter)         Intelligent notion detection       No         Network       Yes (with optional*3)         Wrieless network       Yes (with optional*3)         Number of clients       10         Authentication       IEEEE02.1X         Interface       No         Card slots       CF card x1         Analogue video output       Xiaa <t< td=""><td>Easy Zoom</td><td>No</td></t<>	Easy Zoom	No
Wide-D     View-DR*4 [125 dB: Theoretical]       Image enhancement     Visibility Enhancer       Noise reduction     XDNR       Image     1280 x 1024, 1280 x 960, 1280 x 800, 1280 x 720, 1024 x 756, 100 x 480, 768 x 756, 600 x 480, 768 x 750, 600 x 720)       Audio     Cordination detection       Number of clients     G. 711/G.726       Sector and Vitics     IPv4, IPv6, TCP, UDP, ARP, ICMP, ICMP, ICMP, HTP, HTPS, FP (client/ servel), SMIP, DHCP, DNS, MP, RIP/RTCP, RISP, SNMP (MB-2)       ONVE conformance     IPv4, IPv6, TCP, UDP, ANP, ICMP, REP/RTCP, RISP, SNMP (MB-2)       ONVE conformance     IPv4, IPv6, TCP, UDP, ANP, ICMP, RIP, RTP, RTP, RTP, RTP, RTP, RTP, RTP, RT	Camera Features	
Image enhancement         Visibility Enhancer           Noise reduction         XDNR           Image         1280 x 1024, 1280 x 960, 1280 x 800, 1280 x 720, 1024 x 768, 1324 x 576, 400 x 480, 768 x 576, 400 x 480, 640 x 36 384 x 288, 320 x 240, 320 x 192           Video compression format         H.264, MPEG-4, JPEG           Maximum frame rate         H.264/MPEG-4/JPEG           Audio compression         G.711/G.726           Scene analytics         Intelligent object detection           Intelligent object detection         Yes (with built-in Post Filter)           Intelligent object detection         Yes (with public)P, RIPR/RCP, RISP, SMMP (MB-2)           ONVIF conformance         Yes (with optional**)           Number of clients         10           Authentication         IEEE802.1X           Interface         No           Card slots         CF card x1           Analogue video output         Composite video (1Vp-p)           Serial interface         No           Card slots         CF card x1           Analogue video output         XDNR           Analogue video output         XD           Analogue video output         Composite video (1Vp-p)           Serial interface         No           Card slots         CF card x1	Day/Night*3	Yes
Noise reduction         XDNR           Image         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 36 x 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           Maximum frame rate         H.264, MPEG-4, JPEG           Audio         Scene analytics           Intelligent motion detection         Yes (with bullt-in Post Filter)           Intelligent motion detection         No           Network         Yes (with pullt-in Post Filter)           Intelligent object detection         No           Number of clients         10           Authentication         IEEE802.1X           Interface         No           Ethernet         10BASE-T1 (10BASE-TX (RJ-45)           Secial interface         No           Card slots         CF card x1           Andogue video output         XI           Analogue video output         XI           Analogue video output         XI           Analogue video output         XI           Martiput         x2           External microphone input         Mini-jack (monaural), Mic NuLINE N: 2.5 V DC plug-in power           Authentication         Moo	Wide-D	View-DR*4 (125 dB: Theoretical)
Image         1280 x 1024, 1280 x 960, 1280 x 800, 1280 x 360, 430, 364 x 36, 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         G.711/G.726           Scene analytics         Scene analytics           Intelligent motion detection         No           Network         No           Protocols         Serverl, SMIP, DHCP, DN, RMP, RIP, RTP, STP, Clent/ serverl, SMIP, DHCP, DN, SMP, RIP, RTP, SMVP (MB-2)           ONN feature         Yes (with optional*5)           Number of clents         10           Authentication         IEEE802.1X           Interface         No           Card slots         CF card x1           Analogue video output         Composite video (1Vp-p)           Seried interface         No           Card slots         CF card x1           Analogue video output         Min-jack (monaural), Max output level: 1 Vms           Analogue video output         Min-jack (monaural), Max output level: 1 Vms           Analogue video output         Min-jack (monaural), Max output level: 1 Vms           Analogue video output         Min-jack (monaural), Max output level: 1 Vms           Analogue video output         Min-jack (monaural), Max output level: 1	Image enhancement	Visibility Enhancer
Codec image size (H x V)         1280 x 1024, 1280 x 960, 1280 x 720, 1024 x 768, 1024 x 576, 800 x 480, 640 x 363 x 240, 320 x 140, 640 x 36 x 328, 320 x 240, 320 x 140, 640 x 36 x 288, 320 x 240, 320 x 140, 640 x 36 x 288, 320 x 240, 320 x 140, 640 x 36 x 384 x 288, 320 x 240, 320 x 140, 640 x 36 x 384 x 288, 320 x 240, 320 x 140, advo x 36 x 384 x 288, 320 x 240, 320 x 140, advo x 36 x 384 x 288, 320 x 240, 320 x 140, x 480, 640 x 36 x 384 x 288, 320 x 240, 320 x 120 x 720)           Maximum frame rate         H.264/MPEG-4, JPEG           Maximum frame rate         H.264/MPEG-4, JPEG           Audio compression         G.711/G.726           Scene analytics         Intelligent motion detection           Intelligent motion detection         Yes (with built-in Post Filter)           Intelligent object detection         No           Network         Yes (with optional**)           Number of clients         10           Authentication         IEEE802.1X           Interfacee         No           Card slots         CF card x1           Analogue video output         X1           Alarm output         x1           Alarm output         x2           Signal system         NISC/PAL           Maxie output         More than 50 dB           General         Yes (XIP, Onnaural), Max output level: 1 Vrms           Analogue video output         Mini-jack (monaural), Max output lev	Noise reduction	XDNR
Codec image size (H x V)         1280 x 1024, 1280 x 960, 1280 x 720, 1024 x 768, 1024 x 576, 800 x 480, 640 x 363 x 240, 320 x 140, 640 x 36 x 328, 320 x 240, 320 x 140, 640 x 36 x 288, 320 x 240, 320 x 140, 640 x 36 x 288, 320 x 240, 320 x 140, 640 x 36 x 288, 320 x 240, 320 x 140, 640 x 36 x 384 x 288, 320 x 240, 320 x 140, and x 140, 640 x 36 x 288, 320 x 240, 320 x 120, x 120 x 12	Image	
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 doject detection No Network  Protocols IPV4, IPV6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client/ server), SMTP, DHCP, DNS, NTP, RIP/RTCP, RTSP, SNMP (MIB-2) ONVIF conformance Yes Wireless network Yes (with optional**) Number of clients 10 Authentication IEEE802.1X Interface Ethernet 10BASE-T / 100BASE-TX (RJ-45) Serial interface No Card slots CF card x1 Analogue video output Composite video (IVp-p) Sensor input x1 Alarm output x2 External microphone input Mini-jack (monaural), Max output level: 1 Vrms Analogue video output Signal system NISC/PAL Horizontal resolution 600 TVL S/N ratio More than 50 dB General Mass Approx. 600 g (1 lib 2 oz) Dimensions (W x H x D) 72 x 63 x 197 mm (2 7/8 x 2 1/2 x 7 7/8 inches) Processor Intel Core 2 Lov Cerca 3 Lov Cer		
Audio       G.711/G.726         Scene analytics       No         Intelligent motion detection       Yes (with built-in Post Filter)         Intelligent object detection       No         Network       No         Protocols       IPv4, IPv6, TCP, UDP, ARP, ICMP, KOMP, HTTP, HTTPS, FTP (clent/ server), SMIP, DHCP, DMS, NTP, RTP/RICP, RISP, SNMP (MB-2)         ONVIF conformance       Ves         Wireless network       Yes (with optional**)         Number of clients       10         Authentication       IEEE802.1X         Interface       Ethemet         Ethemet       10BASE-T/ 100BASE-TX (RJ-45)         Serial interface       No         Card slots       CF card x1         Analogue video output       Composite video (IVp-p)         Sensor input       x1         Alarn output       x2         External microphone input       Mini-jack (monaural), Max output level: 1 Vrms         Analogue video output       Signal system         Mass       Approx. 600 g (1 lb 2 oz)         Signal system       NTSC/PAL         Horizontal resolution       600 TVL         S/N ratio       More than 50 dB         General       Power requirements         Poer caguirements       PAp		
Audio compression       G.711/G.726         Scene analytics       Intelligent motion detection         Intelligent motion detection       No         Network       Protocols         Protocols       IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client/ server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP (MI8-2)         OWIF conformance       Yes         Wireless network       Yes (with optional**)         Number of clients       10         Authentication       IEEE802.1X         Interface       No         Ethernet       10BASE-T/ 100BASE-TX (RJ-45)         Serial interface       No         Card slots       CFF card x1         Analogue video output       Composite video (IVp-p)         Sensor input       x1         Alarn output       x2         External microphone input       Mini-jack (monaural), Mic IN/LINE IN: 2.5 V DC plug-in power         Audio line output       X1         Adalogue video output       Signal system         Mini-jack (monaural), Mic IN/LINE IN: 2.5 V DC plug-in power         Maio gue video output       Mini-jack (monaural), Mic IN/LINE IN: 2.5 V DC plug-in power         Synaic System       NISC/PAL         Horizontal resolution       600 TVL         Syn ratio <t< td=""><td></td><td>H.264/MPEG-4/JPEG: 30 fps (1280 x 720)</td></t<>		H.264/MPEG-4/JPEG: 30 fps (1280 x 720)
Scene analytics           Intelligent motion detection         Yes (with built-in Post Filter)           Intelligent object detection         No           Network         IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (clent/ server), SMTP, DHCP, DNS,NTP, RTP/RTCP, RTSP, SNMP (MIB-2)           ONVIF conformance         Yes           Wireless network         Yes (with optional**)           Number of clients         10           Authentication         IEEE802.1X           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), Max output level: 1 Vims           Analogue video output         Mini-jack (monaural), Max output level: 1 Vims           Analogue video output         Mini-jack (monaural), Max output level: 1 Vims           Mass         Approx. 600 g (1 lb 2 oz)           Dimensions (W x H x D)         72 x 63 x 197 mm (2 7/8 x 2 1/2 x 7 7/8 inches)           Power consumption         9.0 W max.           Operating system         Windows Vista*, Microsoft Windows XP           Processor         Intel Core2 Duo 2GHz or higher           Operating system		C 711/C 726
Intelligent motion detection Yes (with built-in Post Filter) Intelligent object detection No Network Protocols Protocol Protocols Protocols Protocols Protocol Protocol Protocol		0.711/0.720
Intelligent object detection No Network Protocols IPV4, IPV6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTP5, FTP (client/ server), SMTP, DHCP, DNS,NIP, RTP/RTCP, RTSP, SNMP (MIB-2) ONVIF conformance Yes Wireless network Yes (with optional**) Number of clients 10 Authentication IEEE802.1X Interface Ethernet 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 x1 Alarm output x1 Alarm output x2 Ethernet Mini-jack (monaural), MIC INULINE IN: 2.5 V DC plug-in power Audio line output Mini-jack (monaural), Max output level: 1 Virms Analogue video output Signal system NTSC/PAL Horizontal resolution 600 TVL 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 (2 7/8 x 2 1/2 x 7 7/8 inches) Power requirements PoE, AC 24 V, DC 12 V Power consumption 9.0 W max. Operating temperature -20 to +60 °C (-4 to 140 °F) System requirements Operating system Windows Vista*, Microsoft Windows XP Processor Interface -20 to +60 °C (-4 to 140 °F) System requirements PoE, AC 24 V, DC 12 V Power consumption 9.0 W max. 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		Voc (with by vitt in Post Filter)
Network           Protocols         IPvd, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPs, FTP (client/ server), SMIP, DHCP, DNS,NIP, RTP/RTCP, RTSP, SNMP (MIB-2)           ONVIF conformance         Yes           Wireless network         Yes (with optional**)           Number of clients         10           Authentification         IEEE802.1X           Interface         Ethernet           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 NULINE IN: 2.5 V DC plug-in power           Audio line output         Mini-jack (monaural), Max output level: 1 Vrms           Analogue video output         Signal system           Analogue video output         Mini-jack (monaural), Max output level: 1 Vrms           Analogue video output         Mini-jack (monaural), Max output level: 1 Vrms           Analogue video output         Mini-jack (monaural), Max output level: 1 Vrms           Analogue video output         Signal system           Signal system         NTSC/PAL           Horizontal resolution         600 TVL           S/N ratio         More than 50 dB     <	•	
Protocols         IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client/ server), SMTP, DHCP, DNS,NTP, RTP/RTCP, RTSP, SMMP (MIB-2)           ONVIF conformance         Yes           Wireless network         Yes (with optional**)           Number of clients         10           Authentication         IEEE802.1X           Interface            Ethernet         10BASE-T/ 100BASE-TX (RJ-45)           Serial interface         No           Card slots         CF card x1           Analogue video output         Composite video (1Vp-p)           Sensor input         x1           Alarn output         x2           External microphone input         Mini-jack (monaural), Max output level: 1 Vrms           Analogue video output         Mini-jack (monaural), Max output level: 1 Vrms           Analogue video output         Mini-jack (monaural), Max output level: 1 Vrms           Analogue video output         Mini-jack (monaural), Max output level: 1 Vrms           Analogue video output         Mini-jack (monaural), Max output level: 1 Vrms           Signal system         NTSC/PAL           Horizontal resolution         600 TVL           S/N ratio         More than 50 dB           General            Mass         Approx. 600 g (1 Ib 2 oz)		NO
Protocols         server), SMTP, DHCP, DNS,NTP, RTP/RTCP, RTSP, SNMP (MIB-2)           ONVIF conformance         Yes           Wireless network         Yes (with optional**)           Number of clients         10           Authentication         IEEB802.1X           Interface         No           Card slots         CF card x1           Analogue video output         Composite video (1Vp-p)           Serial interface         No           Card slots         CF card x1           Analogue video output         X1           Alarm output         x1           Alarm output         x2           External microphone input         Mini-jack (monaural), Mic UNUE IN: 2.5 V DC plug-in power           Audio line output         Mini-jack (monaural), Max output level: 1 Vrms           Analogue video output         Signal system           Mini-jack (monaural), Max output level: 1 Vrms         Mini-jack (monaural), Max output level: 1 Vrms           Signal system         NTSC/PAL           Horizontal resolution         600 TVL           SN ratio         More than 50 dB           General         Poer Ac 24 V, DC 12 V           Power consumption         9.0 Y max.           Operating temperature         -20 to +60 °C (-4 to 140 °F)	Network	
ONVIF conformance         Yes           Wireless network         Yes (with optional**)           Number of clients         10           Authentication         IEEE802.1X           Interface         III           Ethernet         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: 2.5 V DC plug-in power           Audio line output         Mini-jack (monaural), Max output level: 1 Vims           Analogue video output         Mini-jack (monaural), Max output level: 1 Vims           Analogue video output         Mini-jack (monaural), Max output level: 1 Vims           Analogue video output         Mini-jack (monaural), Max output level: 1 Vims           Analogue video output         Mini-jack (monaural), Max output level: 2.5 V DC plug-in power           Signal system         NTSC/PAL           Horizontal resolution         600 TVL           Sin ratio         More than 50 dB           General         Dimensions (W x H x D)           Mass         Approx. 600 g (1 lb 2 oz)	Protocols	
Number of clients     10       Authentication     IEEB02.1X       Interface     No       Ethernet     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 NUNE IN: 2.5 V DC plug-in power       Audio line output     Mini-jack (monaural), Max output level: 1 Vrms       Analogue video output     Mini-jack (monaural), Max output level: 1 Vrms       Analogue video output     Mini-jack (monaural), Max output level: 1 Vrms       Analogue video output     Mini-jack (monaural), Max output level: 1 Vrms       Analogue video output     Mini-jack (monaural), Max output level: 1 Vrms       Analogue video output     Mini-jack (monaural), Max output level: 1 Vrms       Analogue video output     Mini-jack (monaural), Max output level: 1 Vrms       Analogue video output     Mini-jack (monaural), Max output level: 1 Vrms       Mass     Approx. 600 g (1 ib 2 oz)       Dimensions (W x H x D)     72 x 63 x 197 mm (2 7/8 x 2 1/2 x 7 7/8 inches)       Power consumption     9.0 W max.       Operating temperature     -20 to +60 °C (-4 to 140 °F)       System requirements     -20 to +60 °C (-4 to 140 °F)       Operat	ONVIF conformance	
Authentication       IEEE802.1X         Interface       IDBASE-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: 2.5 V DC plug-in power         Audio line output       Mini-jack (monaural), Max output level: 1 Vrms         Analogue video output       Mini-jack (monaural), Max output level: 2 Vrms         Analogue video output       Mini-jack (monaural), Max output level: 1 Vrms         Analogue video output       Mini-jack (monaural), Max output level: 1 Vrms         Analogue video output       Mini-jack (monaural), Max output level: 2 Vrms         Analogue video output       Mini-jack (monaural), Max output level: 1 Vrms         Analogue video output       Mini-jack (monaural), Max output level: 1 Vrms         Analogue video output       Mini-jack (monaural), Max output level: 2 Vrms         Analogue video output       Mini-jack (monaural), Max output level: 1 Vrms         Analogue video output       Mini-jack (monaural), Max output level: 1 Vrms         Analogue video output       NTSC/PAL         Horizontal resolution       600 TVL         SyN ratio	Wireless network	Yes (with optional*5)
Interface           Ethernet         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: 2.5 V DC plug-in power           Audio line output         Mini-jack (monaural), Max output level: 1 Vims           Analogue video output         Mini-jack (monaural), Max output level: 1 Vims           Analogue video output         Mini-jack (monaural), Max output level: 1 Vims           Analogue video output         Mini-jack (monaural), Max output level: 1 Vims           Analogue video output         Mini-jack (monaural), Max output level: 1 Vims           Analogue video output         Mini-jack (monaural), Max output level: 1 Vims           Analogue video output         Mini-jack (monaural), Max output level: 1 Vims           Analogue video output         Mini-jack (monaural), Max output level: 1 Vims           Analogue video output         Mini-jack (monaural), Max output level: 1 Vims           Analogue video output         Mini-jack (monaural), Max output level: 1 Vims           Analogue video output         Mini-jack (monaural), Max output level: 1 Vims           Mass	Number of clients	10
Ethermet       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: 2.5 V DC plug-in power         Audio line output       Mini-jack (monaural), Max output level: 1 Vims         Analogue video output       Mini-jack (monaural), Max output level: 1 Vims         Analogue video output       Mini-jack (monaural), Max output level: 1 Vims         Analogue video output       Mini-jack (monaural), Max output level: 1 Vims         Analogue video output       Mini-jack (monaural), Max output level: 1 Vims         Analogue video output       Mini-jack (monaural), Max output level: 1 Vims         Analogue video output       Mini-jack (monaural), Max output level: 1 Vims         Analogue video output       Mini-jack (monaural), Max output level: 1 Vims         Analogue video output       Mini-jack (monaural), Max output level: 1 Vims         Analogue video output       Mini-jack (monaural), Max output level: 1 Vims         Signal system       Ntsc/PAL         Mass       Approx. 600 g (1 ib 2 oz)         Dimensions (W x H x D)       72 x 63 x 197 mm (2 7/8 x 2 1/2 x 7 7/8 inches) <td>Authentication</td> <td>IEEE802.1X</td>	Authentication	IEEE802.1X
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 INULINE IN: 2.5 V DC plug-in power         Audio line output       Mini-jack (monaural), Max output level: 1 Vrms         Analogue video output       Mini-jack (monaural), Max output level: 1 Vrms         Analogue video output       Mini-jack (monaural), Max output level: 1 Vrms         Analogue video output       Mini-jack (monaural), Max output level: 1 Vrms         Analogue video output       Mini-jack (monaural), Max output level: 1 Vrms         Analogue video output       Mini-jack (monaural), Max output level: 1 Vrms         Analogue video output       Mini-jack (monaural), Max output level: 1 Vrms         Analogue video output       Mini-jack (monaural), Max output level: 1 Vrms         Analogue video output       Mini-jack (monaural), Max output level: 1 Vrms         Signal system       Ntsc/PAL         Mass       Approx. 600 g (1 lb 2 oz)         Dimensions (W x H x D)       72 x 63 x 197 mm (2 7/8 x 2 1/2 x 7 7/8 inches)         Power requirements       Poet, AC 2 4 V, DC 12 V         Power requirements       Poet, AC 2 4 V, DC 12 °F) <t< td=""><td>Interface</td><td></td></t<>	Interface	
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 INULINE IN: 2.5 V DC plug-in power       Audio line output     Mini-jack (monaural), Max output level: 1 Vrms       Analogue video output     Mini-jack (monaural), Max output level: 1 Vrms       Analogue video output     Mini-jack (monaural), Max output level: 1 Vrms       Analogue video output     Mini-jack (monaural), Max output level: 1 Vrms       Analogue video output     Mini-jack (monaural), Max output level: 1 Vrms       Analogue video output     Mini-jack (monaural), Max output level: 1 Vrms       Analogue video output     Mini-jack (monaural), Max output level: 1 Vrms       Analogue video output     Mini-jack (monaural), Max output level: 1 Vrms       Analogue video output     Mini-jack (monaural), Max output level: 1 Vrms       Analogue video output     Mini-jack (monaural), Max output level: 1 Vrms       Signal system     NISC/PAL       Horizontal resolution     600 TVL       S/N ratio     More than 50 dB       General     Mass       Mass     Approx. 600 g (1 lb 2 oz)       Dimensions (W x H x D)     72 x 63 x 197 mm (2 7/8 x 2 1/2 x 7 7/8 inches)       Power consumption     9.0 W max.       Operating temperature	Ethernet	10BASE-T / 100BASE-TX (RJ-45)
Analogue video output     Composite video (1Vp-p)       Sensor input     x1       Alarm output     x2       External microphone input     Mini-jack (monaural), MIC IN/LINE IN: 2.5 V DC plug-in power       Audio line output     Mini-jack (monaural), MIX output level: 1 Vims       Analogue video output     Mini-jack (monaural), Max output level: 1 Vims       Analogue video output     Mini-jack (monaural), Max output level: 1 Vims       Analogue video output     Mini-jack (monaural), Max output level: 1 Vims       Analogue video output     Mini-jack (monaural), Max output level: 1 Vims       Analogue video output     Mini-jack (monaural), Max output level: 1 Vims       Analogue video output     Mini-jack (monaural), Max output level: 1 Vims       Analogue video output     Mini-jack (monaural), Max output level: 1 Vims       Analogue video output     Mini-jack (monaural), Max output level: 1 Vims       Analogue video output     Mini-jack (monaural), Max output level: 1 Vims       Signal system     NTSC/PAL       Horizontal resolution     600 TVL       Six material video     90 Vinax       Power requirements     PoE, Ac 24 V, DC 12 V       Power consumption     9.0 W max.       Operating temperature     -10 to +50 °C+6 (-14 to 122 °F)       Storage temperature     -20 to +60 °C (-4 to 140 °F)       System requirements     Querating system	Serial interface	No
Sensor input     x1       Alarm output     x2       External microphone input     Mini-jack (monaural), MIC IN/LINE IN: 2.5 V DC plug-in power       Audio line output     Mini-jack (monaural), MIC IN/LINE IN: 2.5 V DC plug-in power       Audio line output     Mini-jack (monaural), MIC IN/LINE IN: 2.5 V DC plug-in power       Analogue video output     Mini-jack (monaural), MIC IN/LINE IN: 2.5 V DC plug-in power       Analogue video output     Mini-jack (monaural), MIC IN/LINE IN: 2.5 V DC plug-in power       Signal system     NISC/PAL       Horizontal resolution     600 TVL       \$/N ratio     More than 50 dB       General     More than 50 dB       Mass     Approx. 600 g (1 lb 2 oz)       Dimensions (W x H x D)     72 x 63 x 197 mm (2 7/8 x 2 1/2 x 7 7/8 inches)       Power requirements     PoE, AC 24 V, DC 12 V       Power consumption     9.0 W max.       Operating temperature     -10 to +50 °C+6 (14 to 122 °F)       Storage temperature     -20 to +60 °C (-4 to 140 °F)       System requirements     Operating system       Windows Vista <sup>®</sup> , Microsoft Windows XP       Processor     Intel Core2 Duo 2GHz or higher       Memory     IGB or more       Web browser     Microsoft Internet Explorer Ver6.0, Ver7.0       Supplied Accessories     CD-ROM (User's guides, SNC Toolbox), Installation manual.	Card slots	CF card x1
Alarm output     x2       External microphone input     Mini-jack (monaural), MIC IN/LINE IN: 2.5 V DC plug-in power       Audio line output     Mini-jack (monaural), Max output level: 1 Vrms       Analogue video output     Signal system       Signal system     NTSC/PAL       Horizontal resolution     600 TVL       S/N ratio     More than 50 dB       General     Mass       Mass     Approx. 600 g (1 lb 2 oz)       Dimensions (W x H x D)     72 x 63 x 197 mm (2 7/8 x 2 1/2 x 7 7/8 inches)       Power requirements     PoE, AC 24 V, DC 12 V       Power consumption     9.0 W max.       Operating temperature     -10 to +50 °C+6 (-14 to 122 °F)       Storage temperature     -20 to +60 °C (-4 to 140 °F)       System requirements     Windows Vista <sup>®</sup> , 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.	Analogue video output	Composite video (1Vp-p)
External microphone input     Mini-jack (monaural), MIC IN/LINE IN: 2.5 V DC plug-in power       Audio line output     Mini-jack (monaural), Max output level: 1 Virms       Analogue video output     Signal system       Bignal system     NTSC/PAL       Horizontal resolution     600 TVL       \$/N ratio     More than 50 dB       General     General       Mass     Approx. 600 g (1 lb 2 oz)       Dimensions (W x H x D)     72 x 63 x 197 mm (2 7/8 x 2 1/2 x 7 7/8 inches)       Power requirements     PoE, AC 24 V, DC 12 V       Power consumption     9.0 W max.       Operating temperature     -10 to +50 °C+° (-14 to 122 °F)       Storage temperature     -20 to +60 °C (-4 to 140 °F)       System requirements     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.	Sensor input	xl
Audio line output     Mini-jack (monaural), Max output level: 1 Virms       Analogue video output     Signal system       Signal system     NTSC/PAL       Horizontal resolution     600 TVL       S/N ratio     More than 50 dB       General     Mass       Mass     Approx. 600 g (1 lb 2 oz)       Dimensions (W x H x D)     72 x 63 x 197 mm (2 7/8 x 2 1/2 x 7 7/8 inches)       Power requirements     PoE, AC 24 V, DC 12 V       Power consumption     9.0 W max.       Operating temperature     -10 to +50 °C+° (-14 to 122 °F)       System requirements     Operating system       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.	Alarm output	x2
Analogue video output         Signal system       NTSC/PAL         Horizontal resolution       600 TVL         S/N ratio       More than 50 dB         General       Mass         Mass       Approx. 600 g (1 lb 2 oz)         Dimensions (W x H x D)       72 x 63 x 197 mm (2 7/8 x 2 1/2 x 7 7/8 inches)         Power requirements       PoE, AC 24 V, DC 12 V         Power consumption       9.0 W max.         Operating temperature       -10 to +50 °C+° (-14 to 122 °F)         Storage temperature       -20 to +60 °C (-4 to 140 °F)         System requirements       Poessor         Operating system       Windows Vista®, Microsoft Windows XP         Processor       Intel Core2 Duo 2GHz or higher         Memory       1CB or more         Web browser       Microsoft Interinet Explorer Ver6.0, Ver7.0         Supplied Accessories       CD-ROM (User's guides, SNC Toolbox), Installation manual.	External microphone input	Mini-jack (monaural), MIC IN/LINE IN: 2.5 V DC plug-in power
Signal system     NTSC/PAL       Horizontal resolution     600 TVL       \$/N ratio     More than 50 dB       General     Mass       Mass     Approx. 600 g (1 lb 2 oz)       Dimensions (W x H x D)     72 x 63 x 197 mm (2 7/8 x 2 1/2 x 7 7/8 inches)       Power requirements     PoE, AC 24 V, DC 12 V       Power consumption     9.0 W max.       Operating temperature     -10 to +50 °C*6 (-14 to 122 °F)       Storage temperature     -20 to +60 °C (-4 to 140 °F)       System requirements     Poerating system       Vindows Vista®, Microsoft Windows XP       Processor     Intel Core2 Duo 2GHz or higher       Memory     1GB or more       Web browser     Microsoft Internet Explorer Ver.6.0, Ver7.0       Supplied Accessories     CD-ROM (User's guides, SNC Toolbox), Installation manual.	Audio line output	Mini-jack (monaural), Max output level: 1 Vrms
Horizontal resolution         600 TVL           S/N ratio         More than 50 dB           General         Mass           Mass         Approx. 600 g (1 lb 2 oz)           Dimensions (W x H x D)         72 x 63 x 197 mm (2 7/8 x 2 1/2 x 7 7/8 inches)           Power requirements         Pob, AC 24 V, DC 12 V           Power requirements         Pob, AC 24 V, DC 12 V           Operating temperature         -10 to +50 °C*4 (-14 to 122 °F)           Storage temperature         -20 to +60 °C (-4 to 140 °F)           System requirements         Poerating system           Operating system         Windows Vista®, Microsoft Windows XP           Processor         Intel Core2 Duo 2GHz or higher           Memory         IGB or more           Web browser         Microsoft Internet Explorer Ver6.0, Ver7.0           Supplied Accessories         CD-ROM (User's guides, SNC Toolbox), Installation manual.	Analogue video output	
\$/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 (2 7/8 x 2 1/2 x 7 7/8 inches)           Power requirements         PoE, AC 24 V, DC 12 V           Power consumption         9.0 W max.           Operating temperature         -10 to +50 °C+6 (-14 to 122 °F)           Storage temperature         -20 to +60 °C (-4 to 140 °F)           System requirements         Windows Vista <sup>m</sup> , 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.	Signal system	NTSC/PAL
General           Mass         Approx. 600 g (1 lb 2 oz)           Dimensions (W x H x D)         72 x 63 x 197 mm (2 7/8 x 2 1/2 x 7 7/8 inches)           Power requirements         PoE, AC 24 V, DC 12 V           Power consumption         9.0 W max.           Operating temperature         -10 to +50 °C*6 (-14 to 122 °F)           Storage temperature         -20 to +60 °C (-4 to 140 °F)           System requirements         Operating system           Windows Vista <sup>®</sup> , 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.	Horizontal resolution	600 TVL
Mass         Approx. 600 g (1 lb 2 oz)           Dimensions (W x H x D)         72 x 63 x 197 mm (2 7/8 x 2 1/2 x 7 7/8 inches)           Power requirements         PoE, AC 24 V, DC 12 V           Power consumption         9.0 W max.           Operating temperature         -10 to +50 °C*6 (-14 to 122 °F)           Storage temperature         -20 to +60 °C (-4 to 140 °F)           System requirements         Operating system           Processor         Intel Core2 Duo 2GHz or higher           Memory         16B or more           Web browser         Microsoft Internet Explorer Ver6.0, Ver7.0           Supplied Accessories         CD-ROM (User's guides, SNC Toolbox), Installation manual.	S/N ratio	More than 50 dB
Dimensions (W x H x D)         72 x 63 x 197 mm (2 7/8 x 2 1/2 x 7 7/8 inches)           Power requirements         PoE, AC 24 V, DC 12 V           Power consumption         9.0 W max.           Operating temperature         -10 to +50 °C *6 (-14 to 122 °F)           Storage temperature         -20 to +60 °C (-4 to 140 °F)           System requirements         Operating system           Operating system         Windows Vista®, Microsoft Windows XP           Processor         Intel Core2 Duo 2GHz or higher           Memory         16B or more           Web browser         Microsoft Internet Explorer Ver6.0, Ver7.0           Supplied Accessories         CD-ROM (User's guides, SNC Toolbox), Installation manual.	General	
Dimensions (W x H x D)         72 x 63 x 197 mm (2 7/8 x 2 1/2 x 7 7/8 inches)           Power requirements         PoE, AC 24 V, DC 12 V           Power consumption         9.0 W max.           Operating temperature         -10 to +50 °C *6 (-14 to 122 °F)           Storage temperature         -20 to +60 °C (-4 to 140 °F)           System requirements         Operating system           Operating system         Windows Vista®, Microsoft Windows XP           Processor         Intel Core2 Duo 2GHz or higher           Memory         16B or more           Web browser         Microsoft Internet Explorer Ver6.0, Ver7.0           Supplied Accessories         CD-ROM (User's guides, SNC Toolbox), Installation manual.	Mass	Approx. 600 g (1 lb 2 oz)
Power requirements         PoE, AC 24 V, DC 12 V           Power consumption         9.0 W max.           Operating temperature         -10 to +50 °C+6 (-14 to 122 °F)           Storage temperature         -20 to +60 °C (-4 to 140 °F)           System requirements         Operating system           Vindows 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.		
Operating temperature         -10 to +50 °C*6 (-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.		
Operating temperature         -10 to +50 °C*6 (-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.		
Storage temperature         -20 to +60 °C (-4 to 140 °F)           System requirements         -20 to +60 °C (-4 to 140 °F)           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.	•	
System requirements           Operating system         Windows Vista <sup>®</sup> , 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.		· · · ·
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,		
Processor         Intel Core2 Duo 2GHz or higher           Memory         1GB or more           Web browser         Microsoff Internet Explorer Ver6.0, Ver7.0           Supplied Accessories         CD-ROM (User's guides, SNC Toolbox), Installation manual,		Windows Vista®, Microsoft Windows XP
Memory 1GB or more Web browser Microsoff Internet Explorer Ver6.0, Ver7.0 Supplied Accessories CD-ROM (User's guides, SNC Toolbox), Installation manual,		
Web browser         Microsoft Internet Explorer Ver6.0, Ver7.0           Supplied Accessories         CD-ROM (User's guides, SNC Toolbox), Installation manual,		
Supplied Accessories CD-ROM (User's guides, SNC Toolbox), installation manual,	,	
CD-ROM (User's guides, SNC Toolbox), Installation manual,		
		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-DF technology is a combination of Sony's full-capture Wide-D technology, the high-speed "Exmor" CMOS sensol and Visibility Enhancer. \*5 With optional SNCA-CFW5 \*6 Cold start temperature must be greater than 0°C.

High-Quality 720p HD Security Camera with IR Illuminator and View-DR. 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

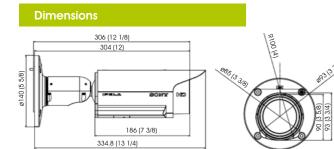
View-DR enhanced wide Dynamic range technology. Superior performance in high contrast lighting conditions

VE 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  $\odot$ focusing simplifies installation
- Q Easy zoom function. Adjusts the focus relative to the zoom ratio
- DEPA DEPA Advanced analytics. Advanced, powerful intelligent video analytics deliver enhanced system performance
- CF 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



Camera	
Image device	1/3 type progressive scan "Exmor" CMOS sensor
Minimum illumination	Colour: 0.22 k, B/W: 0 k - IR ON (F1.2/View-DR OFF/XDNR ON-Middle/VE OFF/AGC High/50 IRE [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
Zoom ratio	Optical 2.9X (x2 Digital Zoom)

### 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)
R illuminators	Yes (Wave Length: 850nm [Typical], IR LED: 27pcs)*3
Camera Features	
Day/Night *3	Yes
Wide-D	View-DR (125dB: Theoretical)
mage enhancement	Visibility Enhancer
Noise reduction	XDNR
mage	
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 Audio	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 compression	G.711/G.726
	G./11/G./20
Scene Analytics	
Intelligent motion detection	Yes (with built-in Post Filter)
ntelligent object detection	No
Rule filter	Yes
Network	
	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client/server
Protocols	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
	IECEÓUZ, IX
Interface	
Ethernet	10BASE-T / 100BASE-TX (RJ-45)
Serial interface	No
Card slots	CF card x1
Analogue video output	BNC x 1
Sensor input	xl
Alarm output	x2
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	
Weight	1600 c (3 lb 9 cz)
•	1600 g (3 lb 8 oz)
Dimensions (W x H x D)	Ø 93 x 186 mm (3 3/4 x 7 3/8 inches)
Power requirements	PoE *5, AC24V, DC12V
Power consumption	30 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) AC24V/DC12V: -20 to +50 °C (-4 to +122°F)
Starting temperature	PoE (IEEE802.3af): 0 to 50 °C (32 to 122°F)
Storage temperature	-20 to +60 °C (-4 to +140°F)
ngress protection	IP66
	100
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, Wir
	rope, M4 screw, B&P Warranty Booklet Template
	Initiality

\*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/)

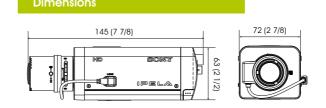
### VIDEO SECURITY

## SNC-CH240

High-Quality 1080p HD Security Camera with View-DR Technology. Excellent 1080p HD picture quality, supporting H.264 at 30 fps. 3 Megapixel (1920  $\times$  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

VE Visibility Enhancer. Enhanced wide dynamic range improves performance in challenging lighting conditions View-DR enhanced wide Dynamic range technology. Superior performance in high contrast lighting conditions XDNR 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 DEPA Advanced analytics. Advanced, powerful intelligent video analytics deliver enhanced system performance C Day/night function. Ideal for mechanical switching to monochrome in night conditions Standard Features and Benefits • Powered by either AC 24V, DC 12V, or PoE (Power over Ethernet) for easy installation • Equipped with a BNC connector 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



### **Specifications**

Camera	
Image device	1/2.8 type progressive scan "Exmor" CMOS sensor
Minimum illumination	Colour: 0.55 k, B/W: 0.3 k (F1.3/View-DR OFF/XDNR ON-Middle/VE OFF/AGC High/50 IRE [IP])
Number of effective pixels (HxV)	3.27 Megapixel (2096 × 1561)
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
Zoom ratio	Optical 2.1X (×2 Digital Zoom)









### 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)
Camera Features	
Day/Night *3	Yes
Wide-D	View-DR (84 dB: Theoretical)
Image enhancement	Visibility Enhancer
Noise reduction	XDNR
Image	
Codec image size (H x V)	1920 × 1440, 1600 × 1200, 1680 × 1056, 1920 × 1080, 1440 × 912, 1376 × 768, 1280 × 960, 1280 × 800, 1280 × 720, 1280 × 1024, 1024 × 768, 1024 × 576, 800 × 480, 768 × 576, 720 × 576, 704 × 576, 720 × 480, 640 × 480, 640 × 368, 384 × 288, 320 × 240, 320 × 192 (H.264, MPEG-4, JPEG)
Video compression format	H.264, MPEG-4, JPEG
Codec streaming capability	Dual streaming
Maximum frame rate	H264: 20 fps (1920 × 1440) / 30 fps (1920 × 1080) MPEG-4: 15 fps (1920 × 1440) / 25 fps (1920 × 1080) JPEG: 10 fps (1920 × 1440) / 15 fps (1920 × 1080)
Audio	C 711/C 704
Audio compression Scene Analytics	G.711/G.726
-	Voc (with by this Dart Citar)
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	600 TV lines
S/N ratio	More than 50 dB
General	
Weight	650 g (1 lb 7 oz)
Dimensions (W x H x D)	72 × 63 × 197.3 mm (2 7/8 × 2 1/2 × 7 7/8 inches)
Power requirements	PoE, AC 24V, DC 12V
Power consumption	11.2 W max.
Starting temperature	0 to 50°C (32 to 122°F)
Working temperature	-10 to +50°C (23 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 2GHz or higher
Memory	1GB 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

\*1 VE off mode only. \*2 View-DR off mode only. \*3 Removable IR Cut Filter. \*4 With optional SNCA-CFW5. \*The SNC-CH240 include software developed by the OpenSSL Project for use in the OpenSSL Toolk (http://www.openssl.org/).

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

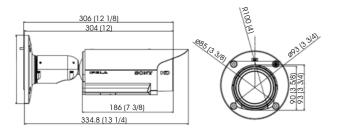
VE Visibility Enhancer. Enhanced wide dynamic range improves performance in challenging lighting conditions

- 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
- **C** 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



### **Specification**

DEPA

24

1/2.8 type progressive scan "Exmor" CMOS sensor
Colour: 0.40 kx, B/W: 0 kx (IR ON) (F1.2/View-DR OFF/XDNR ON-Middle/VE OFF/AGC High/50 IRE [IP])
Approx. 3.27Megapixel (2096×1561)
1s to 1/10000 s
Auto (3 levels)
Auto, EV Compensation *1, Auto Slow Shutter *2
Auto (ATW, ATW-PRO), Preset, One-push WB, Manual
Built-in Vari-focal lens
Optical 2.9X (x2 Digital Zoom)

### Specifications (continued)

Camera (continued)	
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: 27pcs)
Camera Features	
Day/Night *3	Yes
Wide-D	View-DR (90dB)
Image enhancement	Image enhancement Visibility Enhancer
Noise reduction	XDNR
Image	, or at
indge	1920 x 1440, 1600 x 1200, 1680 x 1056, 1920 x 1080,
Codec image size (H x V)	1420 x 1440, 1600 x 1220, 1680 x 1636, 1420 x 1680, 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	
	IPv4, IPv6, UDP, TCP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client/
Protocols	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	Wole Hull Jour
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)
	ø93 x 186 mm (3 3/4 x 7 3/8 inches)
Dimensions (ø x H )	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) AC24V/DC12V : -30 °C to +50 °C (-22 °F to +122 °F) *5
Operating temperature	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
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 Microsoft Internet Explorer Ver. 6.0, Ver. 7.0, Ver. 8.0
	Firefox Ver.3.5 (Plug-in free viewer only)
Web browser	Safari Ver.4.0 (Plug-in free viewer only)
	Google Chrome Ver.4.0 (Plug-in free viewer only)
Supplied Accessories	
Supplied Accessories	CD-ROM (User's Guide, SNC Toolbox), Installation manual,

\*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-CF280 includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit

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

### VIDEO SECURITY

IP RAPID DOME OR PTZ CAMERAS

## SNC-EB520

High-Quality Security Camera. SVGA (800 x 600) maximum resolution. Three codecs (H.264, MPEG-4, JPEG) and a dual streaming capability. The "Exmor" CMOS sensor incorporated to realise high image quality and low noise.

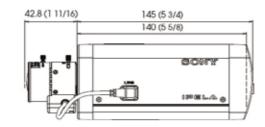
### Key Features and Benefits

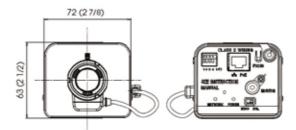
- H264 JPEG, MPEG-4 and H.264 streaming. JPEG, MPEG-4, H.264 encoding allows maximum image transmission flexibility
- **Day/night function.** Switches automatically to mono in night conditions
- Stream Squared function to send two 4:3 aspect ratio videos in user-selectable resolutions up to SD simultaneously (Lowcost solution to replace two SD cameras located in a line)

### 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





Unit: mm (inches)





Camera	
Image sensor	1/3-type "Exmor" CMOS sensor
Number of effective pixels (H x V)	Approx. 1.4 Megapixel (1329 x 1049)
Minimum Illumination	Colour: 0.47 lx, B/W: 0.27 lx
	(F1.0, shutter 1/30 sec., AGC 42dB, 50IRE by IP)
Gain control	Auto
Electronic shutter speed	1/1 to 1/10,000 s
Exposure control	Auto, EV Compensation, Auto Slow Shutter
White balance mode	Auto (ATW, ATW-PRO), Preset, One-push WB, Manual
Lens type	CS Mount Vari-focal lens
Zoom ratio	Optical 2.6x
Powered focus	Yes (Easy Focus)
Horizontal viewing angle	89.2 to 34.6 degrees
Focal length	f = 3.0 to 8.0 mm
F-number	F1.0 (Wide), F1.65 (Tele)
Minimum object distance	200 mm
Camera Features	
Day/Night	Yes
Noise Reduction	Yes
Image	
Codec image size (H x V)	800 x 600 (SVGA), 720 x 576 (PAL D1), 720 x 480 (NTSC D1), 704 x 576 (4CIF) 640 x 480 (VGA), 352 x 288 (CIF), 320 x 240 (QVGA)
Video compression format	H.264, MPEG-4, JPEG
Codec streaming capability	Dual streaming
Maximum frame rate	30 fps (H.264, MPEG-4, JPEG)
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	
Analogue monitor output	Phono jack x 1 (1.0 Vp-p, 75 ohms, unbalanced, sync negative)
Network port	10BASE-T / 100BASE-TX (RJ-45)
Sensor input	x 1, make contact, break contact
Alarm output	x 1, 24V AC/DC, 1A (mechanical relay outputs electrically isolated from the camera)
General	
Power requirements	PoE (IEEE802.3af compliant)
Power consumption	5.0 W max.
Operating temperature	-10 to +50 °C (14 to 122°F)
Starting temperature	0 to +50 °C (32 to 122°F)
Storage temperature	-20 to +60 °C (-4 to +140°F)
Operating humidity	20 to 80%
Storage humidity	20 to 95%
Dimensions (W x H x D)	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 187.8 mm (2 7/8 inches x 2 1/2 inches x 7 7/8 inches) with lens not including the projecting parts
Mass	Approx. 530 g (1 lb 7 oz) with lens
Safety regulations	UL2044, FCC Class A Digital Device, IC Class A Digital Device, IEC60950-1, EN55022(A)+EN55024+EN50 130-4, VCCI Class A, AN/NZS CISPR22
System requirements	
	Microsoft Windows YP Windows Vista (22 bit) Windows 7 (20 bit)
Operating system Processor	Microsoft Windows XP, Windows Vista (32 bit), Windows 7 (32 bit) 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)

## 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.

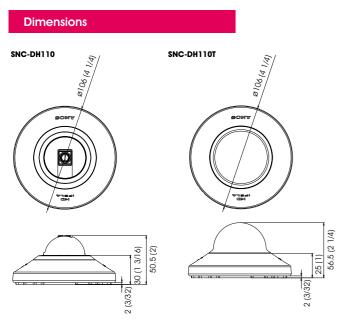


### **Key Features and Benefits**

- (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



DEPA	

Camera	SNC-DH110	SNC-DH110T	
Image device	1/3.8 type C	MOS sensor	
Minimum illumination	5.0lx / AGC 30dB / 50IRE[IP]	5.5lx / AGC 30dB / 50IRE[IP	
Number of effective pixels (HxV)	1.3 Megapixe	l (1296×985)	
Electronic shutter	1/2s to 1	/10000s	
Auto gain control (AGC)	Au	Auto	
Exposure control	Auto, EV Compensati	ion, 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	-	
F-number	F2		
Minimum objects distance	500 mm		
Pan angle	Approx. 340°		
Tilt angle	0° to 57°		
Camera Features	0 10	57	
Day/Night	Yes (elect		
Noise reduction	Ye	96	
Image			
	1280x960, 1280x720, 1024		
Codec image size (H x V)	720x576, 704x576, 800x480,		
	384x288, 352x288, 320x		
Video compression format	H.264, MPE		
Codec streaming capability	Dual stre		
Maximum frame rate	JPEG / MPEG-4 / H.264: 30f	ps (1280×960 / 1280x720)	
Scene Analytics			
Intelligent motion detection	Ye	es	
Network			
Protocols	IPv4, IPv6, TCP, UDP, ARP, ICMP, SMTP, DHCP, DNS,NTP, RTP,		
ONVIF conformance	Ye	95	
Wireless network	N	0	
Number of clients	5	5	
Authentication	IEEE80	02.1X	
Interface			
Ethernet	10BASE-T / 100	BASE-TX (RJ-45)	
Analogue monitor output	AV Mir		
Sensor input	x		
Analogue video output			
Signal system	NTSC	/ DAI	
General	NIGC	/ PAL	
Weight	160 g (5.6 oz) *Without cable ø 106 x 50.5 mm	170 g (6 oz) *Without cable Ø 106 x 56.5 mm	
Dimensions (ø x H )	(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 IEEE802.3af c		
Power consumption	2.4 W		
Operating temperature	0 °C to 50 °C		
Storage temperature	-20 °C to +60 °C		
Vandal resistant	-20 C 10 +80 C	IK10	
	-	IN IU	
System Requirements			
Operating system	WindowsXP, WindowsVisto		
Processor	Intel Core2 Duo	· ·	
Memory	1 GB o		
		orer Ver6.0, 7.0, or 8.0	
Web browser	Firefox Ver.3.5 (Plug Safari Ver.4.0 (Plug-		
		(Plug-in free viewer only)	
	0009.0 0110110 101.4.0		
Supplied Accessories			

\* The SNC-DH110 and SNC-DH110T include software developed by the OpenSSL Project for use in the OpenSSL Toolkit (www.openssl.org/). VIDEO SECURITY IP MINI-DOME CAMERAS

## 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.

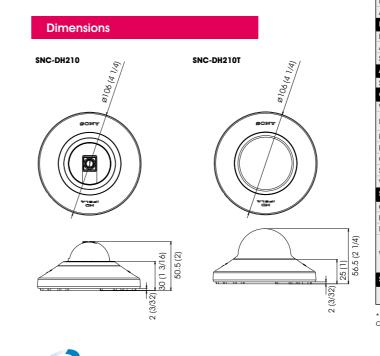
### Key Features and Benefits

- (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









### SNC-DH210 SNC-DH210T Camera 1/2.8 type progressive scan "Exmor" CMOS senso nage device Minimum illumination 2.0 lx / AGC(38db)/ 50IRE(IP) 2.3 lx / AGC(38db)/ 50IRE(IP) 3Megapixel (2096×1561) Number of effective pixels (HxV) Electronic shutter 1s to 1/10000 s Auto gain control (AGC) Auto Auto, EV Compensation, Auto Slow Shutter Exposure control hite balance mode Auto (ATW, ATW-PRO), Preset, One-push WB, Manual Fixed Lens type orizontal viewing angle 88 degrees 86 degrees ocal length f=3.3 -number F2.8 Minimum objects distance 500 mm Approx. 340° Pan angle 0° to 60° Tilt angle Camera Featu ay/Night Yes (electrical D/N) Noise reduction Yes nage 048×1536 (Jpeg Only), 1920x1080, 1600x1200, 1680x1056 1440x912, 1280x1024, 1280x960, 1376x768, 1280x800, 1280x720, 1024x768, 1024x576, 768x576, 720x576, 704x576 Codec image size (H x V) 800x480, 720x480, 640x480, 640x368, 384x288, 352x288, 320x240, 320x192, 176x144 H.264, MPEG-4, JPEG Video compression format Codec streaming capability Dual streamina IPEG:12fps (2048×1536) /15fps (1920×1080) /30fps: (1280×720) Maximum frame rate MPEG-4 / H.264: 15fps (1920×1080) / 30fps (1280×720) Scene Analytics Pv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client), otocols SMTP, DHCP, DNS,NTP, RTP/RTCP, RTSP, SNMP (MIB-2) ONVIF conformance Yes (Version 1.01) Number of clients IEEE802.1X uthenticatio 10BASE-T / 100BASE-TX (R.I-45) Analogue monitor output AV Mini Jack Sensor input x 1 Analogue video output NTSC / PAI Signal sys Seneral 160 g (5.6 oz) 170 g (6 oz) ø 106 x 50.5 mr ø 106 x 56.5 mm Dimensions (ø x H ) (ø 4 1/4 x 2 inches) (ø 4 1/4 x 2 1/4 inches) Power requirements PoE 2.4W Power consumption 0 °C to 50 °C (32°F to 122°F) Operating temperature -20 °C to +60 °C (-4°F to +140°F) Storage temperature Vandal resistant IK10 System Require WindowsXP, WindowsVista (32bit), Windows7(32bit) Operating system Intel Core2 Duo 2 GHz or higher rocessor emory 1 GB or more Microsoft Internet Explorer Ver6.0, 7.0, or 8.0 Firefox Ver.3.5 (Plug-in free viewer only) Neb browse Safari Ver.4.0 (Plug-in free viewer only) Google Chrome Ver.4.0 (Plug-in free viewer only) D-ROM (User's Guide, SNC Toolbox, RSM-Lite), Installation manual,

B&P Warranty Bocklet, Sensor input cable, Template
The SNC-DH210 and SNC-DH210T include software developed by the OpenSSL Project for use in the

ine sinc-bh210 and sinc-bh2101 include software developed by the Openssic Project ()penSSL 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.



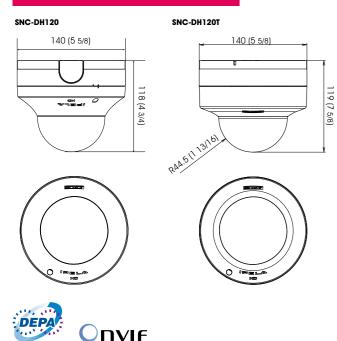
### Key Features and Benefits

- Easy focus function. Automatic adjustment of image focusing simplifies installation
- **Q** 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**



Camera	SNC-DH120	SNC-DH120T
Image device	1/3 type progressive sco	an "Exmor" CMOS sensor
Minimum illumination	Colour: 0.50lx, BW: 0.30lx (	F1.2/ AGC 42dB / 50IRE [IP])
Number of effective pixels (HxV)	1.4 Megapixe	I (1329 x 1049)
Electronic shutter	1s to 1	/10000s
Auto gain control (AGC)	A	otu
Exposure control	Auto, EV Compensa	tion, Auto Slow Shutter
White balance modes	Auto (ATW, ATW-PRO), Pres	et, One-push WB, Manual
Lens type	Vari-fo	cal lens
Zoom ratio	Optic	al 2.9X
Horizontal viewing angle	85.4 to 31	.2 degrees
Focal length		to 8.9 mm
F-number		, F2.1 (Tele)
Minimum objects distance		mm
Powered focus		v Focus)
Powered zoom		y Zoom)
Camera Features	100 (Edd	y 200111j
Day/Night *1		es
Noise reduction	Y	es
Image		
	1280 x 1024, 1280 x 960	, 1280 x 800, 1280 x 720,
Codec image size (H x V)		x 480, 768 x 576, 720 x 576,
COUSE ITTUGE SIZE (FLX V)		( 480, 640 x 368, 384 x 288,
		(H.264, MPEG-4, JPEG)
Video compression format		EG-4, JPEG
Codec streaming capability		eaming
		24) / 30 fps (1280 x 720)
Maximum frame rate		024) / 30 fps (1280 x 720)
	JPEG: 30tps (1280 x 10	24) / 30 fps (1280 x 720)
Scene Analytics		
Intelligent motion detection	Y	es
Network		
Protocols	IPv4, IPv6, TCP, UDP, ARP, ICM	P, IGMP, HTTP, HTTPS, FTP (client
		RTP/RTCP, RTSP, SNMP (MIB-2)
ONVIF conformance	Y	es
Number of clients		5
Authentication	IEEE8	02.1X
Interface		
Ethernet	10BASE-T / 100	BASE-TX (RJ-45)
Analogue monitor output	Phono jack x 1 (1.0 Vp-p, 75 oh	
Sensor input	-	x 1, make contact, break contact
		x 1, 24V AC/DC, 1A
Alarm output	· ·	(mechanical relay outputs electrica
		isolated from the camera)
Analogue video output		
Signal system	NTSC	: / PAL
General		
	715 g (1 lb 9 oz), not including	945 a (2 lb 1 oz) not includir
Weight	the cables and bracket	the cables and bracket
<b>D</b>	ø140 mm × 118 mm	g140 mm × 119 mm
Dimensions (ø x H )	$(55/8 \text{ inches} \times 43/4 \text{ inches})$	
Power requirements	1	Baf compliant)
Power consumption		/ max.
Starting temperature		32°F to 122°F)
Operating temperature		C (14°F to 122°F)
Storage temperature		
	-20°C 10 +80°C	(-4°F to +140°F)
Vandal resistant	-	IK10
System Requirements		
Operating system	Microsoft Windows XP, Window	s Vista(32bit), Windows 7(32bit
Processor	Intel Core2 Duc	2 GHz or higher
Memory	1 GB 0	or more
	Microsoft Internet Explore	r Ver. 6.0, Ver. 7.0, Ver. 8.0
		-in free viewer only)
Web browser	Safari Ver. 4.0 (Plua	-in free viewer only)
Web browser		
Web browser	Google Chrome Ver.4.0	(Plug-in free viewer only)
Web browser Supplied Accessories		(Plug-in free viewer only)
	Google Chrome Ver.4.0	
	Google Chrome Ver.4.0 CD-ROM (User's Guides, and	CD-ROM (User's Guides, and
	Google Chrome Ver.4.0 CD-ROM (User's Guides, and supplied programs) (1), Bracket (1),	
	Google Chrome Ver.4.0 CD-ROM (User's Guides, and supplied programs) (1), Bracket (1), Template (1), Wire rope (1),	CD-ROM (User's Guides, and supplied programs) (1), Bracket
	Google Chrome Ver.4.0 CD-ROM (User's Guides, and supplied programs) (1), Bracket (1),	CD-ROM (User's Guides, and supplied programs) (1), Bracket (1), Template (1), Wire rope (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/).

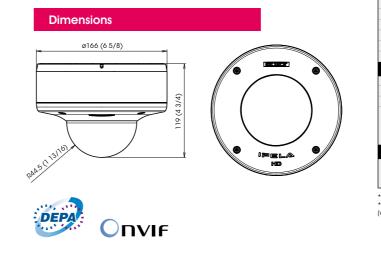
VIDEO SECURITY IP MINI-DOME CAMERAS

## 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
<b>IK10-rated</b> vandal-resistant feature to protect the camera from destructive behaviours
Easy focus function. Automatic adjustment of image focusing simplifies installation
<b>C</b> Easy zoom function. Adjusts the focus relative to the zoom ratio
<b>Day/night function.</b> Ideal for mechanical switching to monochrome in night conditions
Recording software (RealShot Manager Lite) is bundled to start recording and monitoring instantly
<b>"Stream Squared" function.</b> 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
<ul> <li>Intelligent Motion Detection that supports DEPA</li> </ul>
Analogue monitor output (AV mini iack)

- 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





### **Specifications**

	I
Camera	
Image device	1/3 type progressive scan "Exmor" CMOS sensor
Minimum illumination	0.50lx (Colour), 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) Phono jack x 1
Analogue monitor output	
Sensor input	x 1, make contact, break contact
Alarm output	x 1, 24V AC/DC, 1A (Mechanical relay outputs electrically isolated from the carnera)
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
	12.9 W max
Power consumption	
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
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.

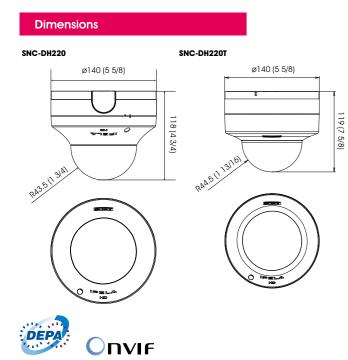


### Key Features and Benefits

- 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



Camera	SNC-DH220	SNC-DH220T
Image device		an "Exmor" CMOS sensor
Minimum illumination		(F1.2/ AGC 42dB/ 50IRE [IP])
Number of effective pixels (HxV)		apixel (2096×1561)
Electronic shutter		/10000 s
Auto gain control (AGC)		Jto
Exposure control		tion, Auto Slow Shutter
White balance modes		et, One-push WB, Manual
		i-focal lens
Lens type		
Zoom ratio		al 2.9X
Horizontal viewing angle	-	o 32.3 degrees
Focal length		to 8.9 mm
F-number		, F2.1 (Tele)
Minimum objects distance		mm
Powered focus		y Focus)
Powered zoom	Yes (Eas	y Zoom)
Camera Features		
Day/Night *1	Y	es
Noise reduction		es
Image		
Codec image size (H x V)	1440 x 912, 1376 x 768, 1280 x 720, 1280 x 1024, 1024 x	76, 720 x 480, 640 x 480,
Video compression format	H.264, MP	EG-4, JPEG
Codec streaming capability	Dual str	eaming
Maximum frame rate	MPEG-4: 15fps (1920 x 14	40) / 30fps (1920 x 1080) 140) / 25 fps (1920 x 1080)
Conno Anni 11	JPEG: 10fps (1920 x 144	40) / 15fps (1920 x 1080)
Scene Analytics		
Intelligent motion detection Network	Ye	es
Protocols	IPv4, IPv6, TCP, UDP, ARP, I	CMP, IGMP, HTTP, HTTPS, FTP
PIOIOCOIS	(client only), SMTP, DHCP, DNS, 1	NTP, RTP/RTCP, RTSP, SNMP (MIB-2
ONVIF conformance	Y	es
Number of clients		5
Authentication	IEEE8	02.1X
Interface		
Ethernet	10BASE-T / 100	BASE-TX (RJ-45)
Analogue monitor output	Phono jack x 1 (1.0 Vp-p, 75 oh	
Sensor input		x 1, make contact, break conta
Alarm output		x 1, 24V AC/DC, 1A (mechanical relay outputs electrical
-		isolated from the camera)
Analogue video output		
Signal system	NTSC	: / PAL
General		
	715 g (1 lb 9 oz), not including	945 a (2 lb 1 oz), not includin
Weight	the cables and bracket	the cables and bracket
	ø140 mm × 118 mm	ø140 mm × 119 mm
Dimensions (ø x H )	(5 5/8 inches × 4 3/4 inches)	
Power requirements	POE (IEEE802.3	Baf compliant)
Power consumption	6.0 W	/ max.
Starting temperature	0 °C to 50 °C (	32 °F to 122 °F)
Operating temperature		C (14 °F to 122°F)
Storage temperature		(-4 °F to +140°F)
Vandal resistant	-	К10
System Requirements		1
		101 (001 1) 11- T
Operating system	Microsoft Windows XP, Windows	
Processor		2 GHz or higher
Memory		or more
Web browser	Firefox Ver.3.5 (Plug Safari Ver.4.0 (Plug	r Ver. 6.0, Ver. 7.0, Ver. 8.0 -in free viewer only) -in free viewer only) (Physic for a viewer only)
Consultant A second state	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 un mouriting sciews, Shoulder screw M4, Wiench, I/O cable, LAN cable Installation Manual

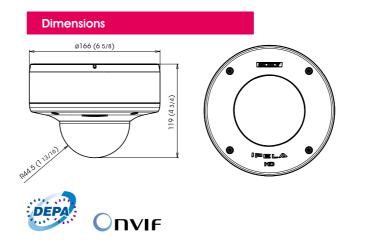
VIDEO SECURITY IP MINI-DOME CAMERAS

## SNC-DH260

IP66 Vandal-Reistant 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.

Ke	ey reatures and benetits
R	<b>IR Illuminator.</b> 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
$\Diamond$	IP66-rated waterproof and dust-tight feature for outdoor
(K10)	surveillance, or indoor where water ingress may pose an issue IK10-rated vandal-resistant feature to protect the camera from destructive behaviours
Φ	Easy focus function. Automatic adjustment of image focusing simplifies installation
Q	Easy zoom function. Adjusts the focus relative to the zoom ratio
¥(	Day/night function. Ideal for mechanical switching to monochrome in night conditions
REC	<b>Recording software (RealShot Manager Lite)</b> is bundled to start recording and monitoring instantly
	<b>"Stream Squared" function.</b> 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
St	andard Features and Benefits
•	Intelligent Motion Detection that supports DEPA
	Equipped with a phono jack to instantly monitor the video

- 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.



\*1 Removable IR Cut Filter.

**Specifications** 

\* The SNC-DH220 and SNC-DH220T include software developed by the OpenSSL Project for use in the OpenSSL Toolkit (www.openssl.org/).

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### **Specifications**

Camera	
les energies alles de la	
Image device	1/2.8 type progressive scan "Exmor" CMOS sensor
Minimum illumination	Colour: 0.70lx lx, B/W: 0 lx (IR ON) (F1.2/ AGC 42dB / 50IRE [IP])
Number of effective pixels (HxV)	Approx. 3.27 Megapixel (2096×1561)
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	
	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,
Codec image size (H x V)	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, 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	H264: 20fps (1920 x 1440) / 30fps (1920 x 1080) MPEG-4: 15fps (1920 x 1440) / 20 fps (1920 x 1080)
Maximum nome role	JPEG: 10fps (1920 x 1440) / 20 lps (1920 x 1080)
Scene Analytics	
Intelligent motion detection	Yes
Network	
	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP
Protocols	(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)
Alarm output Analogue video output	x 1, 24V AC/DC, 1A
-	x 1, 24V AC/DC, 1A
Analogue video output	x 1, 24V AC/DC, 1A (mechanical relay outputs electrically isolated from the camera)
Analogue video output Signal system General	x 1, 24V AC/DC, 1A (mechanical relay outputs electrically isolated from the camera) NTSC / PAL
Analogue video output Signal system General Weight	x 1, 24V AC/DC, 1A (mechanical relay outputs electrically isolated from the camera) NTSC / PAL 1320g (2 lb 15 oz)
Analogue video output Signal system General Weight Dimensions (ø x H )	x 1, 24V AC/DC, 1A (mechanical relay outputs electrically isolated from the camera) NTSC / PAL 1320g (2 lb 15 oz) ø 166 x 119 mm (6 5/8 x 4 3/4 inches)
Analogue video output Signal system General Weight Dimensions (ø x H ) Power requirements	x 1, 24V AC/DC, 1A (mechanical relay outputs electrically isolated from the camera) NTSC / PAL 1320g (2 lb 15 oz) ø 166 x 119 mm (6 5/8 x 4 3/4 inches) PoE
Analogue video output Signal system General Weight Dimensions (ø x H ) Power requirements Power consumption	x 1, 24V AC/DC, 1A (mechanical relay outputs electrically isolated from the camera) NTSC / PAL 1320g (2 lb 15 oz) ø 166 x 119 mm (6 5/8 x 4 3/4 inches) PoE 12.9 W Max.
Analogue video output Signal system General Weight Dimensions (ø x H ) Power requirements Power consumption Starting temperature	x 1, 24V AC/DC, 1A (mechanical relay outputs electrically isolated from the camera) NTSC / PAL 1320g (2 lb 15 oz) Ø 166 x 119 mm (6 5/8 x 4 3/4 inches) PoE 12.9 W Max. -20 °C to +50 °C (-4 °F to +122 °F)
Analogue video output Signal system General Weight Dimensions (ø x H ) Power requirements Power consumption Starting temperature Operating temperature	x 1, 24V AC/DC, 1A (mechanical relay outputs electrically isolated from the camera) NTSC / PAL 1320g (2 lb 15 oz) Ø 166 x 119 mm (6 5/8 x 4 3/4 inches) PoE 12.9 W Max. -20 °C to +50 °C (-4 °F to +122 °F) -30 °C to +50 °C (-22 °F to +122 °F)*2
Analogue video output Signal system General Weight Dimensions (ø x H ) Power requirements Power consumption Starting temperature	x 1, 24V AC/DC, 1A (mechanical relay outputs electrically isolated from the camera) NTSC / PAL 1320g (2 lb 15 oz) Ø 166 x 119 mm (6 5/8 x 4 3/4 inches) PoE 12.9 W Max. -20 °C to +50 °C (-4 °F to +122 °F) -30 °C to +50 °C (-4 °F to +122 °F)*2 -20 °C to +60 °C (-4 °F to +140 °F)
Analogue video output Signal system General Weight Dimensions (ø x H ) Power requirements Power consumption Starting temperature Operating temperature Storage temperature Ingress protection	x 1, 24V AC/DC, 1A (mechanical relay outputs electrically isolated from the camera) NTSC / PAL 1320g (2 lb 15 oz) Ø 166 x 119 mm (6 5/8 x 4 3/4 inches) PoE 12.9 W Max. -20 °C to +50 °C (-4°F to +122 °F) -30 °C to +50 °C (-4°F to +122 °F) -20 °C to +60 °C (-4°F to +122 °F) -20 °C to +60 °C (-4°F to +140 °F) IP66
Analogue video output Signal system General Weight Dimensions (ø x H ) Power requirements Power consumption Starting temperature Operating temperature Storage temperature Ingress protection Vandal resistant	x 1, 24V AC/DC, 1A (mechanical relay outputs electrically isolated from the camera) NTSC / PAL 1320g (2 lb 15 oz) Ø 166 x 119 mm (6 5/8 x 4 3/4 inches) PoE 12.9 W Max. -20 °C to +50 °C (-4 °F to +122 °F) -30 °C to +50 °C (-4 °F to +122 °F)*2 -20 °C to +60 °C (-4 °F to +140 °F)
Analogue video output         Signal system         General         Weight         Dimensions (ø x H )         Power consumption         Starting temperature         Operating temperature         Ingress protection         Vandal resistant         System Requirements	x 1, 24V AC/DC, 1A [mechanical relay outputs electrically isolated from the camera] NTSC / PAL 1320g (2 lb 15 oz) Ø 166 x 119 mm (6 5/8 x 4 3/4 inches) PoE 12.9 W Max. -20 °C to +50 °C (-4 °F to +122 °F) -30 °C to +50 °C (-4 °F to +122 °F)*2 -20 °C to +60 °C (-4 °F to +120 °F) IP66 IK10
Analogue video output Signal system General Weight Dimensions (ø x H ) Power requirements Power consumption Starting temperature Operating temperature Storage temperature Ingress protection Vondal resistant System Requirements Operating system	x 1, 24V AC/DC, 1A (mechanical relay outputs electrically isolated from the camera) NTSC / PAL 1320g (2 lb 15 oz) Ø 166 x 119 mm (6 5/8 x 4 3/4 inches) PoE 12.9 W Max. -20 °C to +50 °C (-4 °F to +122 °F) -30 °C to +50 °C (-4 °F to +122 °F) -20 °C to +60 °C (-4 °F to +122 °F)*2 -20 °C to +60 °C (-4 °F to +140 °F) IP66 IK10 Microsoft Windows XP, Windows Vista(32bit), Windows 7(32bit)
Analogue video output Signal system General Weight Dimensions (ø x H ) Power requirements Power consumption Starting temperature Operating temperature Storage temperature Storage temperature Ingress protection Vandal resistont System Requirements Operating system Processor	x 1, 24/ AC/DC, 1A (mechanical relay outputs electrically isolated from the camera) NTSC / PAL 1320g (2 lb 15 oz) Ø 166 x 119 mm (6 5/8 x 4 3/4 inches) PoE 12.9 W Max. -20 °C to +50 °C (-4 °F to +122 °F) -30 °C to +50 °C (-4 °F to +122 °F) -20 °C to +60 °C (-4 °F to +122 °F) -20 °C to +60 °C (-4 °F to +120 °F) IP66 IK10
Analogue video output Signal system General Weight Dimensions (ø x H ) Power requirements Power consumption Starting temperature Operating temperature Storage temperature Ingress protection Vandal resistant System Requirements Operating system	x 1, 24V AC/DC, 1A (mechanical relay outputs electrically isolated from the camera) NTSC / PAL 1320g (2 lb 15 oz) Ø 166 x 119 mm (6 5/8 x 4 3/4 inches) PoE 12.9 W Max. -20 °C to +50 °C (-4 °F to +122 °F) -30 °C to +50 °C (-4 °F to +122 °F) -30 °C to +50 °C (-4 °F to +122 °F) 20 °C to +60 °C (-4 °F to +140 °F) IP66 IK10 Microsoft Windows XP, Windows Vista(32bit), Windows 7(32bit) Intel Core2 Duo 2 GHz or higher 1 GB or more
Analogue video output Signal system General Weight Dimensions (ø x H ) Power requirements Power consumption Starting temperature Operating temperature Storage temperature Ingress protection Vandal resistant System Requirements Operating system Processor Memory	x 1, 24V AC/DC, 1A (mechanical relay outputs electrically isolated from the camera) NTSC / PAL 1320g (2 lb 15 oz) Ø 166 x 119 mm (6 5/8 x 4 3/4 inches) PoE 12.9 W Max. -20 °C to +50 °C (-4 °F to +122 °F) -30 °C to +50 °C (-4 °F to +122 °F) -20 °C to +60 °C (-4 °F to +140 °F) IP66 IK10 Microsoft Windows XP, Windows Vista(32bit), Windows 7(32bit) Intel Core2 Duo 2 GHz or higher
Analogue video output Signal system General Weight Dimensions (ø x H ) Power requirements Power consumption Starting temperature Operating temperature Storage temperature Storage temperature Ingress protection Vandal resistont System Requirements Operating system Processor	x 1, 24/ AC/DC, 1A (mechanical relay outputs electrically isolated from the camera) NTSC / PAL 1320g (2 lb 15 oz) Ø 166 x 119 mm (6 5/8 x 4 3/4 inches) PoE 12.9 W Max. -20 °C to +50 °C (-4 °F to +122 °F) -30 °C to +50 °C (-4 °F to +122 °F) -20 °C to +60 °C (-4 °F to +122 °F) -20 °C to +60 °C (-4 °F to +140 °F) IP66 IK10 Microsoft Windows XP, Windows Vista(32bit), Windows 7(32bit) Intel Core2 Duo 2 GHz or higher 1 GB or more Microsoft Internet Explorer Ver. 6.0, Ver. 7.0, Ver. 8.0
Analogue video output Signal system General Weight Dimensions (ø x H ) Power requirements Power consumption Starting temperature Operating temperature Startage temperature Ingress protection Vandal resistant System Requirements Operating system Processor Memory	x 1, 24V AC/DC, 1A (mechanical relay outputs electrically isolated from the camera) NTSC / PAL 1320g (2 lb 15 oz) Ø 166 x 119 mm (6 5/8 x 4 3/4 inches) PoE 12.9 W Max. -20 °C to +50 °C (-4 °F to +122 °F) -30 °C to +50 °C (-4 °F to +122 °F) -20 °C to +60 °C (-4 °F to +140 °F) IP66 IK10 Microsoft Windows XP, Windows Vista(32bit), Windows 7(32bit) Intel Core2 Duo 2 GHz or higher 1 GB or more Microsoft Internet Explorer Ver. 6.0, Ver. 7.0, Ver. 8.0 Firefox Ver.3.5 (Plug-in free viewer only)
Analogue video output Signal system General Weight Dimensions (ø x H ) Power requirements Power consumption Starting temperature Operating temperature Storage temperature Ingress protection Vandal resistant System Requirements Operating system Processor Memory	x 1, 24V AC/DC, 1A (mechanical relay outputs electrically isolated from the camera) NTSC / PAL 1320g (2 lb 15 oz) Ø 166 x 119 mm (6 5/8 x 4 3/4 inches) POE 12.9 W Max. -20 °C to +50 °C (-4 °F to +122 °F) -30 °C to +50 °C (-4 °F to +122 °F) -20 °C to +60 °C (-4 °F to +140 °F) IP66 IK10 Microsoft Windows XP, Windows Vista(32bit), Windows 7(32bit) Intel Core2 Duo 2 GHz or higher 1 GB or more 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)
Analogue video output Signal system General Weight Dimensions (ø x H ) Power consumption Starting temperature Operating temperature Storage temperature Ingress protection Vandal resistant System Requirements Operating system Processor Memory Web browser	x 1, 24/ AC/DC, 1A (mechanical relay outputs electrically isolated from the camera) NTSC / PAL 1320g (2 lb 15 oz) Ø 166 x 119 mm (6 5/8 x 4 3/4 inches) POE 12.9 W Max. -20 °C to +50 °C (-4 °F to +122 °F) -30 °C to +50 °C (-4 °F to +122 °F) -30 °C to +50 °C (-4 °F to +140 °F) IP66 IK10 Microsoft Windows XP, Windows Vista(32bit), Windows 7(32bit) Intel Core2 Duo 2 GHz or higher 1 GB or more 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)

\*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.opensst.org/).

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## 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 / DH140T from Sony represents the very latest in mini-dome, HD network camera technology.



**Specifications (continued)** 



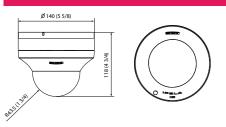
### **Key Features and Benefits**

- 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
- Excellent 720p HD picture quality, supporting H.264 at 30 fps

### Dimensions



**Specifications** 

Camera	SNC-DH140	SNC-DH140T
Image device	1/3 type progressive sc	an "Exmor" CMOS sensor
Minimum illumination		(F1.2/View-DR OFF/XDNR ON- GC High/50 (RE(IP))
Number of effective pixels (HxV)	Approx. 1.4	4 Megapixel
Electronic shutter speed	1s to 1,	/10,000s
Auto gain control (AGC)	Max gain setting	g LOW, MID, HIGH
Exposure control	Auto, EV Compensatio	on*1, Auto Slow Shutter*2
White balance modes	Auto (ATW, ATW-Pro), Pres	et, One-push WB, Manual
Lens type	Vari-fo	cal lens
Zoom ratio	Optical 2.9X ()	x2 Digital Zoom)



Camera (continued)	SNC-DH140	SNC-DH140T
Horizontal viewing angle		o 85.4°
Focal length	f=3.1 to	8.9mm
F-number	F1.2 (wide	, F2.1 (tele)
Powered Focus	Yes (Eas	y Focus)
Powered Zoom	Yes (Eas	ay Zoom)
Camera Features		
Day/Night*3	Y	es
Wide-D		dB: Theoretical)
Image enhancement		Inhancer
Noise reduction		NR
Vandal resistant standard	No	IK10
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	1280 x 1024, 1280 x 960, 1280 x 800, 1280 x 720, 102 x 768, 1024 x 576, 800 x 480 768 x 576, 720 x 576, 720 480, 704 x 576, 640 x 480, 640 x 368, 384 x 288, 320 x 240, 320 x 192 (H.264, MPECe-4, JPECe)
Video compression format	H.264, MP	EG-4, JPEG
Maximum frame rate	H.264/MPEG-4/JPEG: 30 fps (1280 x 720)	H.264: 20fps (1280 x 1024), 30 fps (1280 x 720) MPEG-4: 25fps (1280 x 1024) 30 fps (1280 x 1024) 30 fps (1280 x 720) JPEG: 30fps (1280 x 1024) / 30 fps (1280 x 720)
	C 711	/G.726
Audio compression	G./11	/G./20
Scene analytics		L. D. LEW.
Intelligent motion detection		t-in Post Filter) Io
Network		10
Network		P, IGMP, HTTP, HTTPS, FTP (client/
Protocols		, RTP/RTCP, RTSP, SNMP (MIB-2)
ONVIF conformance	Y	es
Wireless network	N	lo
Number of clients	1	0
Authentication	IEEE8	02.1X
Interface		
Ethernet connectivity		BASE-TX (RJ-45)
Serial interface		lo
Card slots		lo
Analogue video output	Composite video (1Vp-p)	BNC x 1
Sensor input		1
Alarm output		
External microphone input Audio line output		INE IN: 2.5 V DC plug-in power fax output level: 1 Vrms
Analogue video output	Will I-Jack (I'rioriddidi), Iv	iax ouipur ievei. T virns
Signal system	NITSC	C/PAL
Horizontal resolution		V lines
S/N ratio		an 50 dB
General		
Mass	Approx. 750 g (1 lb 10 oz)	980g (2 lb 3 oz)
Dimensions (W x H x D)		5/8 x 4 3/4 inches)
Power requirements		4V, DC12V
Power consumption	8.0 W	/ max.
Operating temperature	-10 to +50 °C*5 (-14 to 122 °F)	-10 to +50 °C (23 to 122°F)
Storage temperature	-20 to +60 °C	C (-4 to 140 °F)
System requirements		
Operating system	Windows Vista®, Microsoft Windows XP	Windows XP, Windows Vista, Windows 7
Processor		2GHz or higher
Memory		r more
Web browser	Microsoft Internet Explorer Ver6.0, Ver7.0	Microsoft Internet Explorer Ver6.0, 7.0, or 8.0
Supplied Accessories		,
	Template, Wire rope, Bracket,	Toolbox), Installation manual, LAN cable, BNC cable, Powe Cable, Warranty booklet, M4

\*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 Cold start temperature must be greater than 0°C.

VIDEO SECURITY IP MINI-DOME CAMERAS

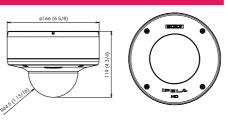
## SNC-DH180

Sony is pleased to introduce a powerful addition to its network HD camera lineup, the SNC-DH180. This vandal-resistant, wide dynamic range camera is designed with a built-in infrared (IR) illuminators. As a dual-stream network camera, it supports H.264, MPEG-4, and JPEG compression formats, and delivers excellent picture quality in HD 720p resolution at 30 frames per second (fps).

### 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 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 **Q** Easy zoom function. Adjusts the focus relative to the zoom ratio Visibility Enhancer. Enhanced wide dynamic range improves performance in challenging lighting conditions Excellent picture quality in HD 720p resolution, supporting H.264 at 30 fps **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 kr (Colour) 0 kr (BW) - IR ON (F1.2 / View-DR Off //E Off //E Off //B (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 *1, Auto Slow Shutter *2
White balance modes	Auto (ATW, ATW-PRO), Preset, One-push WB, Manual
Lens type	Vari-focal lens
Zoom ratio	Optical 2.9X (x2 Digital Zoom)
Horizontal viewing angle	85.4 to 31.2 degrees
Focal length	f=3.1 to 8.9 mm





### Specifications (continued)

Camera (continued)	
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: 21pcs)
Camera Features	
Day/Night *3	Yes
Wide-D	View-DR (125dB: Theoretical)
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	N720 / D41
Video system Horizontal resolution	NTSC / PAL 600 TV lines
S/N ratio	More than 50 dB
General	
	1280 c (2 lb 1 cz)
Weight Dimensions (W x H x D)	1380 g (3 lb 1 oz) 166 x 119 mm (6 5/8 x 4 3/4 inches)
Power requirements	PoE *4, AC24V, DC12V
Power consumption	28 W max.
	AC24V/DC12V: -20 to 50 °C (-4 to 122°F)
Starting temperature Working temperature	PoE (IEEE802.3af): 0 to 50 °C (32 to 122°F)           AC24V/DC12V: -30 to 50 °C (-22 to 122°F)
	PoE (IEEE802.3af): -10 to 50 °C (23 to 122°F)
Storage temperature	-20°C to +60°C (-4°F to 140 °F)
Ingress Protection	IP66
Vandal resistant standard	IK10
System requirements	
Operating system	Windows XP, Windows Vista
Processor	Intel Core2 Duo 2 GHz or higher
Memory Web browsor	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, Flyee, L-wranch, 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

Excellent 1080p HD picture quality, supporting H.264 at 30 fps. 3 Megapixel (1920  $\times$  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.



Specifications (continued)

VIDEO SECURITY IP MINI-DOME CAMERAS

## SNC-DH280

IP66 Vandal-Reistant 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.

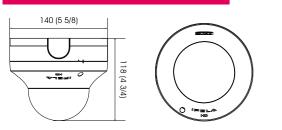
### Key Features and Benefits

- 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 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
- **Q** Easy zoom function. Adjusts the focus relative to the zoom ratio
- VE Visibility Enhancer. Enhanced wide dynamic range improves performance in challenging lighting conditions
- **Day/night function.** Ideal for mechanical switching to monochrome in night conditions

### **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**

DEPA

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Camera	SNC-DH240	SNC-DH240T
Image device	1/2.8 type progressive sc	an "Exmor" CMOS sensor
Minimum illumination	Colour: 0.55 (F1.2/View-DR OFF/XDNR ON-Mid	
Number of effective pixels (HxV)	3.27 Megapixel	(2096 × 1561)
Electronic shutter	1s to 1/	10000s
Auto gain control (AGC)	Auto (3	levels)
Exposure control	Auto, EV Compensation	1 *1, Auto Slow Shutter *2
White balance modes	Auto (ATW, ATW-PRO), Pres	et, One-push WB, Manual
Lens type	Vari-foc	cal lens
Horizontal viewing angle	88.5 to 32.	3 degrees
Zoom ratio	Optical 2.9X (×	2 Digital Zoom)

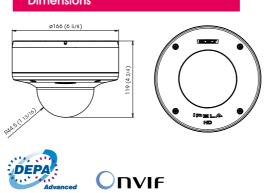
## Οηνιε

Camera (continued)	SNC-DH240	SNC-DH240T
Focal length	f=3.1 to	
F-number	F1.2 (Wide)	, F2.1 (Tele)
Minimum object distance	300	mm
Powered Focus	Yes (Eas	y Focus)
Powered Zoom	Yes (Eas	y Zoom)
Camera Features		
Day/Night *3	Ye	es
Wide-D	View-DR (84 d	B: Theoretical)
Image enhancement		nhancer
Noise reduction	XD	
Vandal resistant standard	No	IK10
Image		
Codec image size (H x V)	1280 x 720, 1280 x 1024, 1024	30 x 960, 1280 x 800, 1 x 768, 1024 x 576, 800 x 480, 704 x 576, 720 x 480, 8, 320 x 240, 320 x 192 (H.264,
Video compression format	H.264, MP	EG-4, JPEG
Codec streaming capability		eaming
Maximum frame rate	H264: 20fps (1920 x 144	10) / 30fps (1920 x 1080) 140) / 25 fps (1920 x 1080)
Audio		0.70/
Audio compression	G.711/	G./26
Scene Analytics		
Intelligent motion detection	Yes (with built	t-in Post Filter)
Intelligent object detection	N	0
Rule filter	Ye	96
Network		
Protocols		, IGMP, HTTP, HTTPS, FTP (client/
		RTP/RTCP, RTSP, SNMP (MIB-2)
Number of clients		0
ONVIF conformance	Ye	
Wireless network	N	-
Authentication	IEEE8	02.1X
Interface		
Ethernet		BASE-TX (RJ-45)
Serial interface	N	
Card slots		0
Analogue video output	BNC	
Analogue monitor output	Phono je	ack × 1
Sensor input	X	1
Alarm output	x	2
External microphone input	Mini-jack (Monaural), MIC IN/L	INE IN: 2.5VDC plug-in power
Audio line output	Mini-jack (Monaural), N	lax output level: 1 Vrms
Analogue video output		
Video system	NTSC	/ PAL
Horizontal resolution	T 006	/ lines
S/N ratio	More the	an 50 dB
General		
Weight	750g (1 lb 10 oz)	980g (2 lb 3 oz)
	ø140 × 118 mm	ø140 x 119 mm
Dimensions (W x H x D)	(5 5/8 × 4 3/4 inches)	(5 5/8 x 4 3/4 inches)
Power requirements		4V, DC12V
Power consumption		/ max.
Starting temperature		32 to 122°F)
Working temperature		(23 to 122°F)
Storage temperature	-20 to +60°C	(-4 to +140°F)
System requirements		
Operating system	Windows XP, Window	ws Vista, Windows 7
Processor		2GHz or higher
Memory	1GB o	r more
mornory	Microsoft Internet Expl	orer Ver6.0, 7.0, or 8.0
Web browser Supplied Accessories		
Web browser		Toolbox), Installation manual
Web browser	CD-ROM (User's guides, SNC Template, Wire rope, Bracket,	
Web browser	CD-ROM (User's guides, SNC Template, Wire rope, Bracket,	

\*1 VE off mode only. \*2 View-DR off mode only. \*3 Removable IR Cut Filter. \*The SNC-DH240 / DH240T include software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/).

### **Key Features and Benefits**

View-DR enhanced wide Dynamic range technology.	Camera	
Superior performance in high contrast lighting conditions	Image device	1/2.8 type progressive scan "Exmor" CMOS sensor
	Minimum illumination	Colour: 0.40 kx, B/W: 0 kx (IR ON) (F1.2/View-DR OFF/XDNR ON-Middle/VE OFF/AGC High/50 IRE (IP))
Visibility Enhancer. Enhanced wide dynamic range	Number of effective pixels (HxV)	Approx. 3.27Megapixel (2096×1561)
improves performance in challenging lighting conditions	Electronic shutter	1 s to 1/10000 s
	Auto gain control (AGC) Exposure control	Auto (3 levels) Auto, EV Compensation *1, Auto Slow Shutter *2
<b>IR Illuminator.</b> Clearly captures objects in the dark up to	White balance modes	Auto (ATW, ATW-PRO), Preset, One-push WB, Manual
15m (49 feet) away with IR illuminators, which allows the	Lens type	Built-in Vari-focal lens
camera to operate in 0 lux lighting conditions	Zoom ratio	Optical 2.9X (x2 Digital Zoom)
A ID(/, wate downtown of an all down tight for the for out tale or	Horizontal viewing angle Focal length	88.5 degrees to 32.3 degrees f=3.1mm to 8.9 mm
IP66-rated waterproof and dust-tight feature for outdoor	F-number	F1.2 (Wide), F2.1 (Tele)
surveillance, or indoor where water ingress may pose an issue	Minimum objects distance	300 mm
(iv) IK10-rated vandal-resistant feature to protect the camera	Powered focus Powered zoom	Yes (Easy Focus) Yes (Easy Zoom)
$\checkmark$	IR illuminators	Yes (Wave Length: 850nm [Typical], IR LED: 21pcs)
from destructive behaviours	Camera Features	
Easy focus function. Automatic adjustment of image	Day/Night *3	Yes
focusing simplifies installation	Wide-D	View-DR (90dB)
	Image enhancement Noise reduction	Image enhancement Visibility Enhancer Yes
<b>C</b> Easy zoom function. Adjusts the focus relative to the zoom ratio	Image	
DEPA Advanced analytics. Advanced, powerful intelligent		1920 x 1440, 1600 x 1200, 1680 x 1056, 1920 x 1080,
video analytics deliver enhanced system performance	Codec image size (H x V)	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, 640 x 368, 384 x 288, 320 x 240, 320 x 192 (H.264, MPEG-4, JPEG)
	Video compression format Codec streaming capability	H.264, MPEG-4, JPEG Dual streaming
Standard Features and Benefits	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)
<ul> <li>Optical Day/Night function to switch to Day or Night mode</li> </ul>	Audio	
depending on the light level	Audio compression	G.711/G.726
	Scene Analytics	
<ul> <li>XDNR (eXcellent Dynamic Noise Reduction) technology for</li> </ul>	Intelligent motion detection Rule filter	Yes (with built-in Post Filter) Yes
clear images without motion blur under low illumination	Network	
Pervered by either AC 24V, DC 12V, or Dec (Dever ever	Protocols	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP
Powered by either AC 24V, DC 12V, or PoE (Power over	ONVIF conformance	(client/server), SMTP, DHCP, DNS,NTP, RTP/RTCP, RTSP, SNMP (MIB-2) Yes
Fthernet) for easy installation		
Ethernet) for easy installation	Number of clients	10
<ul><li>Ethernet) for easy installation</li><li>Equipped with a built-in heater for continued camera operation</li></ul>		
<b>,</b> .	Number of clients Authentication	10
<ul> <li>Equipped with a built-in heater for continued camera operation in cold whether supported (-30 °C to +50 °C/ -22 °F to +122 °F)</li> </ul>	Number of clients Authentication Interface Ethernet Analogue video output	10 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) BNC x 1
<ul> <li>Equipped with a built-in heater for continued camera operation in cold whether supported (-30 °C to +50 °C/ -22 °F to +122 °F)</li> <li>Equipped with a BNC connector and a phono jack to instantly</li> </ul>	Number of clients Authentication Interface Ethernet Analogue video output Analogue monitor output	10 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) BNC x 1 Phono jack x 1
<ul> <li>Equipped with a built-in heater for continued camera operation in cold whether supported (-30 °C to +50 °C/ -22 °F to +122 °F)</li> </ul>	Number of clients Authentication Interface Ethernet Analogue video output	10 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) BNC x 1
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<ul> <li>Equipped with a built-in heater for continued camera operation in cold whether supported (-30 °C to +50 °C/ -22 °F to +122 °F)</li> <li>Equipped with a BNC connector and a phono jack to instantly monitor the video while installing the camera</li> <li>ONVIF (Open Network Video Interface Forum) conformance</li> </ul>	Number of clients Authentication Interface Ethernet Analogue video output Analogue monitor output Sensor input Alarm output External microphone input Audio line output	10 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) BINC x 1 Phono jack x 1 x 1 x 2
<ul> <li>Equipped with a built-in heater for continued camera operation in cold whether supported (-30 °C to +50 °C/ -22 °F to +122 °F)</li> <li>Equipped with a BNC connector and a phono jack to instantly monitor the video while installing the camera</li> <li>ONVIF (Open Network Video Interface Forum) conformance that ensures greater interoperability and more flexibility in</li> </ul>	Number of clients Authentication Interface Ethernet Analogue video output Analogue monitor output Sensor input Alarm output External microphone input Audio line output Analogue Monitor Output	10 IEEE802.1X IOBASE-T / 100BASE-TX (RJ-45) BNC x 1 Phono jack x 1 x 1 x 2 Mini-jack (Monaural), MIC IN/LINE IN: 2.5VDC plug-in power Mini-jack (Monaural), Max output level: 1 Virms
<ul> <li>Equipped with a built-in heater for continued camera operation in cold whether supported (-30 °C to +50 °C/ -22 °F to +122 °F)</li> <li>Equipped with a BNC connector and a phono jack to instantly monitor the video while installing the camera</li> <li>ONVIF (Open Network Video Interface Forum) conformance</li> </ul>	Number of clients Authentication Interface Ethernet Analogue video output Analogue monitor output Sensor input Alarm output External microphone input Audio line output	10 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) BNC x 1 Phono jack x 1 x 1 x 2 Mini-jack (Monaural), MIC IN/LINE IN: 2.5VDC plug-in power
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<ul> <li>Equipped with a built-in heater for continued camera operation in cold whether supported (-30 °C to +50 °C/ -22 °F to +122 °F)</li> <li>Equipped with a BNC connector and a phono jack to instantly monitor the video while installing the camera</li> <li>ONVIF (Open Network Video Interface Forum) conformance that ensures greater interoperability and more flexibility in building multiple-vendor systems</li> </ul>	Number of clients Authentication Interface Ethernet Analogue video output Analogue monitor output Sensor input Alarm output Alarm output External microphone input Audio line output Analogue Monitor Output Signal system Horizontal resolution	10 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) BNC x 1 Phono jack x 1 x 1 x 2 Mini-jack (Monaural), MIC IN/LINE IN: 2.5VDC plug-in power Mini-jack (Monaural), Max output level: 1 Virms NTSC / PAL 600 TV lines More than 50 dB
<ul> <li>Equipped with a built-in heater for continued camera operation in cold whether supported (-30 °C to +50 °C/ -22 °F to +122 °F)</li> <li>Equipped with a BNC connector and a phono jack to instantly monitor the video while installing the camera</li> <li>ONVIF (Open Network Video Interface Forum) conformance that ensures greater interoperability and more flexibility in</li> </ul>	Number of clients Authentication Interface Ethernet Analogue video output Analogue monitor output Sensor input Alarm output Externol microphone input Audio line output Audio line output Analogue Monitor Output Signal system Horizontal resolution S/N ratio General Weight	10 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) BNC x 1 Phono jack x 1 x 1 x 2 Mini-jack (Monaural), MIC IN/LINE IN: 2.5VDC plug-in power Mini-jack (Monaural), MIC IN/LINE IN: 2.5VDC plug-in power MINI - 2.5VDC plug-in po
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<ul> <li>Equipped with a built-in heater for continued camera operation in cold whether supported (-30 °C to +50 °C/ -22 °F to +122 °F)</li> <li>Equipped with a BNC connector and a phono jack to instantly monitor the video while installing the camera</li> <li>ONVIF (Open Network Video Interface Forum) conformance that ensures greater interoperability and more flexibility in building multiple-vendor systems</li> </ul>	Number of clients Authentication Interface Ethernet Analogue video output Analogue monitor output Sensor input Alarm output External microphone input Audio line output Audio line output Analogue Monitor Output Signal system Horizontal resolution S/N ratio General Weight Dimensions (ø x H ) Power consumption Starting temperature Operating temperature Storage temperature Ingress protection Vandal resistant	10 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) BNC x 1 Phono jack x 1 x 1 x 2 Mini-jack (Monaural), MIC IN/LINE IN: 2.5VDC plug-in power Mini-jack (Monaural), Max output level: 1 Vims NTSC / PAL 600 TV lines More than 50 dB 1400g (3 lb 1 oz) ø 166 x 119 mm (6 5/8 x 4 3/4 inches) PoE, AC24V, DC 12V 29 W Max. AC24V/DC 12V : -30 °C to +50 °C (-22 °F to +122 °F) PoE (IEEE802.3df) : -10 °C to +50 °C (14 °F to +122 °F) AC24V/DC 12V : -30 °C to +50 °C (14 °F to +122 °F) AC24V/DC 12V : -30 °C to +50 °C (14 °F to +122 °F) AC24V/DC 12V : -30 °C to +50 °C (14 °F to +122 °F) AC24V/DC 12V : -30 °C to +50 °C (14 °F to +120 °F) AC24V/DC 12V : -30 °C to +50 °C (14 °F to +120 °F) AC24V/DC 12V : -40 °C (-4 °F to +140 °F) IP66
<ul> <li>Equipped with a built-in heater for continued camera operation in cold whether supported (-30 °C to +50 °C/ -22 °F to +122 °F)</li> <li>Equipped with a BNC connector and a phono jack to instantly monitor the video while installing the camera</li> <li>ONVIF (Open Network Video Interface Forum) conformance that ensures greater interoperability and more flexibility in building multiple-vendor systems</li> </ul>	Number of clients Authentication Interface Ethernet Analogue video output Analogue monitor output Sensor input Alarm output External microphone input Audio line output Audio line output Analogue Monitor Output Signal system Horizontal resolution S/N ratio General Weight Dimensions (Ø x H ) Power requirements Power consumption Starting temperature Storage temperature Ingress protection Vandal resistant System Requirements Operating system Processor	10 IEEE802.1X 10BASE-T/ 100BASE-TX (RJ-45) BNC x 1 Phono jack x 1 x 1 x 2 Mini-jack (Monaural), MIC IIV/IINE IN: 2.5VDC plug-in power Mini-jack (Monaural), MIC IIV/IINE IN: 2.5VDC plug-in power MIC / PAL 600 TV lines More than 50 dB 1400g (3 lb 1 oz) ø 166 x 119 mm (6 5/8 x 4 3/4 inches) PE, AC24V, DC12V 29 W Max. AC24V/DC12V : -20 °C to +50 °C (14 °F to +122 °F) AC24V/DC12V : -30 °C to +50 °C (14 °F to +122 °F) AC24V/DC12V : -30 °C to +50 °C (14 °F to +122 °F) AC24V/DC12V : -30 °C to +50 °C (14 °F to +122 °F) AC24V/DC12V : -30 °C to +50 °C (14 °F to +122 °F) AC24V/DC12V : -30 °C to +50 °C (14 °F to +122 °F) AC24V/DC12V : -30 °C to +50 °C (14 °F to +122 °F) AC24V/DC12V : -30 °C to +50 °C (14 °F to +122 °F) AC24V/DC12V : -30 °C to +50 °C (14 °F to +122 °F) AC24V/DC12V : -30 °C to +50 °C (14 °F to +122 °F) AC24V/DC12V : -30 °C to +50 °C (14 °F to +122 °F) AC24V/DC12V : -30 °C to +50 °C (14 °F to +122 °F) AC24V/DC12V : -30 °C to +50 °C (14 °F to +122 °F) AC24V/DC12V : -30 °C to +50 °C (14 °F to +122 °F) AC24V/DC12V : -30 °C to +50 °C (14 °F to +120 °F) IP66 IK10 Microsoft Windows XP, Windows Vista(32bit), Windows 7(32bit) Intel Core2 Duo 2 GHz or higher
<ul> <li>Equipped with a built-in heater for continued camera operation in cold whether supported (-30 °C to +50 °C/ -22 °F to +122 °F)</li> <li>Equipped with a BNC connector and a phono jack to instantly monitor the video while installing the camera</li> <li>ONVIF (Open Network Video Interface Forum) conformance that ensures greater interoperability and more flexibility in building multiple-vendor systems</li> </ul>	Number of clients Authentication Interface Ethernet Analogue video output Analogue monitor output Sensor input Alarm output External microphone input Audio line output Audio line output Audio line output Audio line output Audio line output Analogue Monitor Output Signal system Horizontal resolution S/N ratio General Weight Dimensions (Ø x H ) Power requirements Power consumption Starting temperature Ciperating temperature Storage temperature Ingress protection Vandal resistant System Requirements Operating system	10           IEEE802.1X           IOBASE-T/ 100BASE-TX (RJ-45)           BNC x 1           Phono jack x 1           x 1           x 2           Mini-jack (Monaural), MIC IN/LINE IN: 2.5VDC plug-in power           Mini-jack (Monaural), MIC IN/LINE IN: 2.5VDC plug-in power           Mini-jack (Monaural), Max output level: 1 Vims           NTSC / PAL           600 TV lines           More than 50 dB           1400g (3 lb 1 oz)           ø 166 x 119 mm (6 5/8 x 4 3/4 inches)           PoE, AC24V, DC12V           29 W Max.           AC24V/DC12V: -20 °C to +50 °C (4 °F to +122 °F)           AC24V/DC12V: -30 °C to +50 °C (14 °F to 122 °F)           AC24V/DC12V: -30 °C to +50 °C (14 °F to 122 °F)           AC24V/DC12V: -30 °C to +50 °C (14 °F to +122 °F)           -20 °C to +60 °C (-4 °F to +140 °F)           IP66           IK10           Microsoft Windows XP, Windows Vista(32bit), Windows 7(32bit)           Intel Core2 Duo 2 GHz or higher           I G8 or more
<ul> <li>Equipped with a built-in heater for continued camera operation in cold whether supported (-30 °C to +50 °C/-22 °F to +122 °F)</li> <li>Equipped with a BNC connector and a phono jack to instantly monitor the video while installing the camera</li> <li>ONVIF (Open Network Video Interface Forum) conformance that ensures greater interoperability and more flexibility in building multiple-vendor systems</li> </ul>	Number of clients Authentication Interface Ethernet Analogue video output Analogue monitor output Sensor input Alarm output External microphone input Audio line output Audio line output Analogue Monitor Output Signal system Horizontal resolution S/N ratio General Weight Dimensions (Ø x H ) Power requirements Power consumption Starting temperature Storage temperature Ingress protection Vandal resistant System Requirements Operating system Processor	10           IEEE802.1X           10BASE-T / 100BASE-TX (RJ-45)           BNC x 1           Phono jack x 1           x 1           x 2           Mini-jack (Monaural), MIC IN/LINE IN: 2.5VDC plug-in power           Mini-jack (Monaural), MIC IN/LINE IN: 2.5VDC plug-in power           Mini-jack (Monaural), Max output level: 1 Vims           NTSC / PAL           600 TV lines           More than 50 dB           1400g (3 lb 1 oz)           ø 166 x 119 mm (6 5/8 x 4 3/4 inches)           PoE, AC24V, DC12V           29 W Max.           AC24V/DC12V : -20 °C to +50 °C (12 °F to +122 °F)           AC24V/DC12V : -30 °C to +50 °C (14 °F to +122 °F)           AC24V/DC12V : -30 °C to +50 °C (14 °F to +122 °F)           AC24V/DC12V : -30 °C to +50 °C (14 °F to +122 °F)           AC24V/DC12V : -30 °C to +50 °C (14 °F to +122 °F)           AC24V/DC12V : -30 °C to +60 °C (24 °F to +140 °F)           IP66           IK10           Microsoft Windows XP, Windows Vista(32bit), Windows 7(32bit)           Intel Core2 Duo 2 GHz or higher           1 GB or more           Microsoft Intermet Explorer Ver, 6, 0, Ver, 7.0, Ver, 8.0           Eirefox Ver, 3.5 (Pluc-in tree viewer only)
	Number of clients Authentication Interface Ethernet Analogue video output Analogue monitor output Sensor input Alarm output External microphone input Audio line output Analogue Monitor Output Signal system Horizontal resolution S/N ratio General Weight Dimensions (Ø x H ) Power requirements Power consumption Starting temperature Storage temperature Ingress protection Vandal resistant System Requirements Operating system Processor Memory Web browser	10           IEEE802.1X           10BASE-T/ 100BASE-TX (RJ-45)           BNC x 1           Phono jack x 1           x 1           x 2           Mini-jack (Monaural), MIC IN/LINE IN: 2.5VDC plug-in power           Microsoft (190 C 14 / F to +122 °F)           AC24V/DC12V : -30 °C to +50 °C (14 °F to +122 °F)           AC24V/DC12V : -30 °C to +50 °C (14 °F to +122 °F)           AC24V/DC12V : -30 °C to +50 °C (14 °F to +122 °F)           -20 °C to +60 °C (-4 °F to +140 °F)           IP66           IK10           Microsoft Windows XP, Windows Vista(32bit), Windows 7(32bit) </td
<ul> <li>Equipped with a built-in heater for continued camera operation in cold whether supported (-30 °C to +50 °C/ -22 °F to +122 °F)</li> <li>Equipped with a BNC connector and a phono jack to instantly monitor the video while installing the camera</li> <li>ONVIF (Open Network Video Interface Forum) conformance that ensures greater interoperability and more flexibility in building multiple-vendor systems</li> </ul>	Number of clients Authentication Interface Ethernet Analogue video output Analogue monitor output Sensor input Alarm output External microphone input Audio line output Analogue Monitor Output Signal system Horizontal resolution S/N ratio General Weight Dimensions (ø x H ) Power requirements Power consumption Starting temperature Storage temperature Memory	10           IEEE802.1X           10BASE-T/ 100BASE-TX (RJ-45)           BNC x 1           Phono jack x 1           x 1           x 2           Mini-jack (Monaural), MIC IN/LINE IN: 2.5VDC plug-in power           Mini-jack (Monaural), MIC IN/LINE IN: 2.5VDC plug-in power           Mini-jack (Monaural), Max output level: 1 Virms           NTSC / PAL           600 TV lines           More than 50 dB           1400g (3 lb 1 az)           Ø 166 x 119 mm (6 5/8 x 4 3/4 inches)           PE, AC24V, DC12V           29 W Max.           AC24V/DC12V : -20 °C to +50 °C (+2° F to +122° F)           AC24V/DC12V : -30 °C to +50 °C (+2° F to +122° F)           AC24V/DC12V : -30 °C to +50 °C (+2° F to +122° F)           AC24V/DC12V : -30 °C to +50 °C (+2° F to +122° F)           AC24V/DC12V : -30 °C to +50 °C (+2° F to +122° F)           AC24V/DC12V : -30 °C to +50 °C (+2° F to +122° F)           POE (IEE802.3at) : 0 °C to 50 °C (+2° F to +140° F)           IP66           IK10           Microsoft Windows XP, Windows Vista(32bit), Windows 7(32bit)           Intel Core2 Duo 2 GHz or higher           1 GB or more           Microsoft Windows XP, Windows Vista(32bit), Windows 7(32bit)           Intel Core2 Duo 2 GHz or higher
	Number of clients Authentication Interface Ethernet Analogue video output Analogue monitor output Sensor input Alarm output External microphone input Audio line output Analogue Monitor Output Signal system Horizontal resolution S/N ratio General Weight Dimensions (Ø x H ) Power requirements Power consumption Starting temperature Storage temperature Ingress protection Vandal resistant System Requirements Operating system Processor Memory Web browser	10           IEEE802.1X           10BASE-T / 100BASE-TX (RJ-45)           BNC x 1           Phono jack x 1           x 1           x 2           Mini-jack (Monaural), MIC IN/LINE IN: 2.5VDC plug-in power           Mini-jack (Monaural), MIC IN/LINE IN: 2.5VDC plug-in power           Mini-jack (Monaural), Max output level: 1 Vims           NTSC / PAL           600 TV lines           More than 50 dB           1400g (3 lb 1 oz)           ø 166 x 119 mm (6 5/8 x 4 3/4 inches)           PoE, AC24V, DC12V           29 W Max.           AC24V/DC12V: -20 °C to +50 °C (14 °F to +122 °F)           AC24V/DC12V: -30 °C to +50 °C (14 °F to +122 °F)           AC24V/DC12V: -30 °C to +50 °C (14 °F to +122 °F)           AC24V/DC12V: -30 °C to +50 °C (14 °F to +122 °F)           AC24V/DC12V: -30 °C to +50 °C (14 °F to +122 °F)           AC24V/DC12V: -30 °C to +60 °C (24 °F to +140 °F)           IP66           IK10           Microsoft Windows XP, Windows Vista(32bit), Windows 7(32bit)           Intel Core2 Duo 2 GHz or higher           1 GB or more           Microsoft Intermet Explorer Ver, 6.0, Ver, 7.0, Ver, 8.0           Eirefox Ver, 3.5 (Pluc-in tree viewer only)



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



## SNC-EM520

High-Quality Security Camera. SVGA (800 x 600) maximum resolution. Three codecs (H.264, MPEG-4, JPEG) and a dual streaming capability. The "Exmor" CMOS sensor incorporated to realise high image quality and low noise.



### Key Features and Benefits

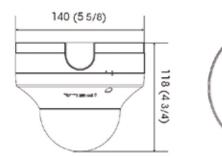
- H224 JPEG, MPEG-4 and H.264 streaming. JPEG, MPEG-4, H.264 encoding allows maximum image transmission flexibility
- **C** Day/night function. Switches automatically to mono in night conditions
- Stream Squared function to send two 4:3 aspect ratio videos in user-selectable resolutions up to SD simultaneously (Lowcost solution to replace two SD cameras located in a line)

### **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

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### Dimensions



Unit: mm (inches)

## Specifications

Camera	
Image sensor	1/3-type "Exmor" CMOS sensor
Number of effective pixels (H x V)	Approx. 1.4 Megapixel (1329 x 1049)
Minimum illumination	Colour: 0.50 kx, B/W: 0.30 kx
Gain control	(F1.2, shutter 1/30 sec., AGC 42dB, 50IRE by IP) Auto
Electronic shutter speed	1/1 to 1/10.000 s
Exposure control	Auto, EV Compensation, Auto Slow Shutter
White balance mode	Auto, EV Compensation, Auto slow shutter Auto (ATW, ATW-PRO), Preset, One-push WB, Manual
Lens type	Built-in Vari-focal lens
Powered zoom Zoom ratio	Yes (Easy Zoom) Optical 2.9x
Powered focus	Yes (Easy Focus)
Horizontal viewing angle Focal length	85.4 to 31.2 degrees f = 3.1 to 8.9 mm
F-number	F1.2 (Wide), F2.1 (Tele)
	300 mm
Minimum object distance	300 1111
Camera Features	
Day/Night	Yes
Noise Reduction	Yes
Image	
	800 x 600 (SVGA), 720 x 576 (PAL D1), 720 x 480 (NTSC D1),
Codec image size (H x V)	704 x 576 (4CIF), 640 x 480 (VGA), 352 x 288 (CIF),
Video compression format	320 x 240 (QVGA)
Codec streaming capability	H.264, MPEG-4, JPEG Dual streaming
- · · · ·	<u> </u>
Maximum frame rate	30 fps (H.264, MPEG-4, JPEG)
Scene Analytics	
Intelligent motion detection	Yes
Network	
Protocols	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client
FIOIOCOIS	only), SMTP, DHCP, DNS,NTP, RTP/RTCP, RTSP, SNMP (MIB-2)
ONVIF conformance	Yes
Number of clients	5
Authentication	IEEE802.1X
Interface	
Analogue monitor output	Phono jack x 1
	(1.0 Vp-p, 75 ohms, unbalanced, sync negative)
Network port	10BASE-T / 100BASE-TX (RJ-45)
General	
Power requirements	PoE (IEEE802.3af compliant)
Power consumption	6.0 W max.
Operating temperature	-10 to +50 °C (14 to 122°F)
Starting temperature	0 to +50 °C (32 to 122°F)
Storage temperature	-20 to +60 °C (-4 to +140°F)
Operating humidity	20 to 80%
Storage humidity	20 to 95%
Dimensions (W x H x D)	ø140 mm × 118 mm (5 5/8 inches × 4 3/4 inches)
Mass	Approx. 715 g (1 lb 9 oz) not including the cables and bracket
	UL2044, FCC Class A Digital Device, IC Class A Digital Device,
Safety regulations	IEC60950-1, EN55022(A)+EN55024+EN50
System requirements	130-4, VCCI Class A, AN/NZS CISPR22
Operating system	Microsoft Windows XP, Windows Vista (32 bit), Windows 7 (32 bit)
Operating system Processor	Intel Core2 Duo 2 GHz or higher
Operating system	Intel Core2 Duo 2 GHz or higher 1 GB or more
Operating system Processor	Intel Core2 Duo 2 GHz or higher 1 GB or more Microsoft Internet Explorer Ver. 6.0, Ver. 7.0, Ver. 8.0
Operating system Processor	Intel Core2 Duo 2 GHz or higher 1 G8 or more Microsoft Internet Explorer Ver. 6.0, Ver. 7.0, Ver. 8.0 Firefox Ver.3.5 (Plug-in free viewer only)
Operating system Processor Memory	Intel Core2 Duo 2 GHz or higher 1 GB or more 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)
Operating system Processor Memory Web browser	Intel Core2 Duo 2 GHz or higher 1 G8 or more Microsoft Internet Explorer Ver. 6.0, Ver. 7.0, Ver. 8.0 Firefox Ver.3.5 (Plug-in free viewer only)
Operating system Processor Memory	Intel Core2 Duo 2 GHz or higher 1 G8 or more 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)
Operating system Processor Memory Web browser	Intel Core2 Duo 2 GHz or higher 1 GB or more 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) CD-ROM (User's Guides, and supplied programs) (1),
Operating system Processor Memory Web browser	Intel Core2 Duo 2 GHz or higher 1 G8 or more 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)

\*The SNC-EP520 and SNC-EP521 include software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/).

VIDEO SECURITY IP MINI-DOME CAMERAS

## SNC-EM521

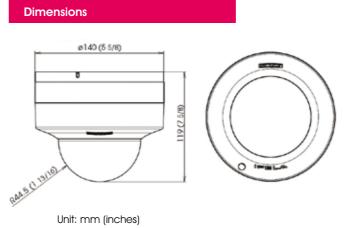
Vandal-Resistant Security Camera. SVGA (800 x 600) maximum resolution. Three codecs (H.264, MPEG-4, JPEG) and a dual streaming capability. The "Exmor" CMOS sensor incorporated to realise high image quality and low noise.

### Key Features and Benefits

- H264 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
- **IK10-rated vandal-resistant** feature to protect the camera from destructive behaviors
- Stream Squared function to send two 4:3 aspect ratio videos in user-selectable resolutions up to SD simultaneously (Low-cost solution to replace two SD cameras located in a line)

### 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









### **Specifications**

Camera	
Image sensor	1/3-type "Exmor" CMOS sensor
Number of effective pixels (H x V)	Approx. 1.4 Megapixel (1329 x 1049)
Minimum Illumination	Colour: 0.50 k, B/W: 0.30 k (F1.2, shutter 1/30 sec., AGC 42dB, 50IRE by IP)
Gain control	Auto
Electronic shutter speed	1/1 to 1/10,000 s
Exposure control	Auto, EV Compensation, Auto Slow Shutter
White balance mode	Auto (ATW, ATW-PRO), Preset, One-push WB, Manual
Lens type	Built-in Vari-focal lens
Powered zoom	Yes (Easy Zoom)
Zoom ratio	Optical 2.9x
Powered focus	Yes (Easy Focus)
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 object distance	300 mm
Camera Features	
Day/Night	Yes
Noise Reduction	Yes
Image	
Codec image size (H x V)	800 x 600 (SVGA), 720 x 576 (PAL D1), 720 x 480 (NTSC D1), 704 x 576 (4ClF), 640 x 480 (VGA), 352 x 288 (ClF), 320 x 240 (QVGA)
Video compression format	H.264, MPEG-4, JPEG
Codec streaming capability	Dual streaming
Maximum frame rate	30 fps (H.264, MPEG-4, JPEG)
Scene Analytics	
Intelligent motion detection	Yes
Network	163
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	
Analogue monitor output	Phono jack x 1 (1.0 Vp-p, 75 ohms, unbalanced, sync negative)
Network port	10BASE-T / 100BASE-TX (RJ-45)
Sensor input	x 1, make contact, break contact
Alarm output	x 1, 24V AC/DC, 1A (mechanical relay outputs electrically isolated from the camera)
General	,
Power requirements	PoE (IEEE802.3af compliant)
Power consumption	6.0 W max.
Operating temperature	-10 to +50 °C (14 to 122°F)
Starting temperature	0 to +50 °C (32 to 122°F)
Storage temperature	-20 to +60 °C (-4 to +140°F)
Operating humidity	20 to 80%
Storage humidity	20 to 95%
Vandal resistant	IK10
Dimensions (W x H x D)	ø140 mm × 119 mm (5 5/8 inches × 4 3/4 inches)
Mass	Approx. 945 g (2 lb 2 oz), not including the cables and bracket
Safety regulations	UL2044, FCC Class A Digital Device, IC Class A Digital Device, IEC60950-1, EN55022(A)+EN55024+EN50 130-4, VCCI Class A, AN/NZS CISPR22
System requirements	
Operating system	Microsoft Windows XP, Windows Vista (32 bit), Windows 7 (32 bit)
operating system	
Processor	Intel Core2 Duo 2 GHz or higher
	Intel Core2 Duo 2 GHz or higher 1 GB or more
Processor	Intel Core2 Duo 2 GHz or higher 1 GB or more Microsoft Internet Explorer Ver. 6.0, Ver. 7.0, Ver. 8.0 Firefox Ver.3.5 (Plug-in free viewer only)
Processor Memory Web browser	Intel Core2 Duo 2 GHz or higher 1 GB or more Microsoft Internet Explorer Ver. 6.0, Ver. 7.0, Ver. 8.0
Processor Memory	Intel Core2 Duo 2 GHz or higher 1 GB or more 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)
Processor Memory Web browser	Intel Core2 Duo 2 GHz or higher 1 GB or more Microsoft Internet Explorer Ver. 6.0, Ver. 7.0, Ver. 8.0 Firefox Vor.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) CD-ROM (User's Guides, and supplied programs) (1),
Processor Memory Web browser	Intel Core2 Duo 2 GHz or higher 1 GB or more 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) CD-ROM (User's Guides, and supplied programs) (1), Bracket (1), Template (1), Wire rope (1),
Processor Memory Web browser	Intel Core2 Duo 2 GHz or higher 1 GB or more Microsoft Internet Explorer Ver. 6.0, Ver. 7.0, Ver. 8.0 Firefax Vor.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) CD-ROM (User's Guides, and supplied programs) (1),

\*The SNC-EP550 includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/).

### VIDEO SECURITY

### IP RAPID DOME OR PTZ CAMER

## SNC-EP521

High-Quality PTZ Camera. Three codecs (H.264, MPEG-4, JPEG) and dual-streaming capability. Powerful 36x optical zoom capability. Wide-D technology. Slim and stylish.



**Specifications** 

### Key Features and Benefits

- H264 JPEG, MPEG-4 and H.264 streaming. JPEG, MPEG-4, H.264 encoding allows maximum image transmission flexibility
- **C** Day/night function. Switches automatically to mono in night conditions
- Recording software (RealShot Manager Lite) is bundled to start recording and monitoring instantly
- **DEPA Advanced analytics.** Advanced, powerful intelligent video analytics deliver enhanced system performance

### **Standard Features and Benefits**

- 36x optical and total zoom ratio of 432x with 12x digital zoom
- Wide-D technology to handle various lighting conditions in a scene
- **Powered by hPoE** for simple installation
- SD memory card slot for an on-board recording capability
- ONVIF (Open Network Video Interface Forum) Version 1.02
   conformance

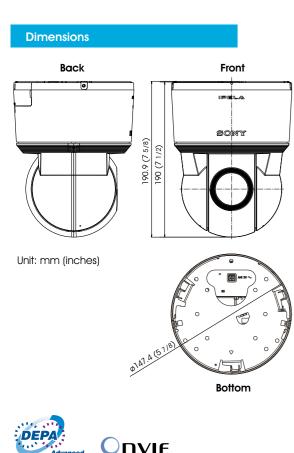


Image device	1/4-type EXview HAD CCD
Number of effective pixels	Approx. 0.44 Megapixel
Minimum Illumination	Colour: 1.4lx (F1.6, shutter 1/50sec, AGC ON, 50IR[IP])
0:	B/W: 0.15lx (F1.6, shutter 1/50sec, AGC ON, Night Mode, 50IRE[IP
Signal system	PAL standard
Electronic shutter speed	1/1 to 1/10,000 s
Auto gain control	Auto/Manual (-3 to 28 dB)
Exposure control	Full auto, Shutter priority, Iris priority, Manual
White balance mode	Auto, ATW, Indoor, Outdoor, One-push, Manual, Sodium
	vapour lamp
Lens type	Auto-focus Zoom Lens
Zoom ratio	Optical zoom 36x, Digital zoom 12x, Total zoom 432x
Horizontal viewing angle	57.8 to 1.7 degrees
Focal length	f=3.4 to 122.4 mm
F-number	F1.6 to F4.5
Minimum object distance	10mm (wide) to 1500mm (tele)
Pan angle	340 degrees
Pan Speed	300 degrees/s (max)
Tilt angle	105 degrees
Tilt speed	300 degrees/s (max)
Preset position	256 positions
Tour	5
Camera Features	
Day/Night	Yes
Wide-D	Yes
Noise Reduction	Yes
Image	
Codec image size (H x V)	720×576, 704×576, 640×480, 384×288, 320×240
Video compression format	H.264, MPEG-4, JPEG
Codec streaming capability	Dual streaming
Maximum frame rate	30 fps (H.264/MPEG-4/JPEG)
Audio	
Audio compression	G.711/G.726
	6.711/6.720
Scene Analytics	
Intelligent motion detection	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 (Ver. 1.02)
Number of clients	5
Authentication	IEEE802.1X
Interface	
Fthernet	10BASE-T / 100BASE-TX (P L/15)
Ethernet Card slots	10BASE-T / 100BASE-TX (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standards
Card slots	SD memory card x 1 (Compatible with the SD/SDHC standards
Card slots Sensor input	SD memory card x 1 (Compatible with the SD/SDHC standards x2
Card slots Sensor input Alarm output	SD memory card x 1 (Compatible with the SD/SDHC standards x2 x1
Card slots Sensor input Alarm output External microphone input	SD memory card x 1 (Compatible with the SD/SDHC standards x2 x1 Mini-jack (monaural)
Card slots Sensor input Alarm output External microphone input Audio line output	SD memory card x 1 (Compatible with the SD/SDHC standards x2 x1
Card slots Sensor input Alarm output External microphone input	SD memory card x 1 (Compatible with the SD/SDHC standards x2 x1 Mini-jack (monaural)
Card slots Sensor input Alarm output External microphone input Audio line output	SD memory card x 1 (Compatible with the SD/SDHC standards x2 x1 Mini-jack (monaural)
Card slots Sensor input Alarm output External microphone input Audio line output General	SD memory card x 1 (Compatible with the SD/SDHC standards x2 x1 Mini-jack (monaural) Mini-jack (monaural), Max output level: 1 Vrms
Card slots Sensor input Alarm output External microphone input Audio line output General Mass	SD memory card x 1 (Compatible with the SD/SDHC standards x2 x1 Mini-jack (monaural) Mini-jack (monaural), Max output level: 1 Vims 1.7 kg (3 lb 12 oz) (including sealing bracket)
Card slots Sensor input Alarm output External microphone input Audio line output General Mass Dimensions (ø x H mm)	SD memory card x 1 (Compatible with the SD/SDHC standards x2 x1 Mini-jack (monaural) Mini-jack (monaural), Max output level: 1 Vrms 1.7 kg (3 lb 12 oz) (including sealing bracket) ø147.4 x 190.9 mm (5 7/8 x 7 5/8 inches)
Card slots Sensor input Alarm output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power consumption	SD memory card x 1 (Compatible with the SD/SDHC standards x2 x1 Mini-jack (monaural) Mini-jack (monaural), Max output level: 1 Vrms 1.7 kg (3 lb 12 oz) (including sealing bracket) ø147.4 x 190.9 mm (5 7/8 x 7 5/8 inches) HPoE (IEEE802.3at compliant), AC24V Approx. 25W
Card slots Sensor input Alarm output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power consumption Operating temperature	SD memory card x 1 (Compatible with the SD/SDHC standards x2 x1 Mini-jack (monaural) Mini-jack (monaural) Mini-jack (monaural) Al 2020 (including sealing bracket) a/147.4 x 190.9 mm (5 7/8 x 7 5/8 inches) HPG (IEEE802.3at compliant), AC24V Approx. 25W -5 to +50 °C (23 to 122°F)
Card slots Sensor input Alarm output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power consumption Operating temperature Starting temperature	SD memory card x 1 (Compatible with the SD/SDHC standards x2 x1 Mini-jack (monaural) Mini-jack (monaural), Max output level: 1 Vims 1.7 kg (3 lb 12 oz) (including sealing bracket) ø147.4 x 190.9 mm (5 7/8 x 7 5/8 inches) HPoE (IEEE802.3at compliant), AC24V Approx. 25W -5 to +50 °C (23 to 122°F) 0 to 50 °C (32 to 122°F)
Card slots Sensor input Alarm output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power requirements Power consumption Operating temperature Storage temperature	SD memory card x 1 (Compatible with the SD/SDHC standards x2 x1 Mini-jack (monaural) Mini-jack (monaural) Mini-jac
Card slots Sensor input Alarm output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power consumption Operating temperature Starting temperature	SD memory card x 1 (Compatible with the SD/SDHC standards x2 x1 Mini-jack (monaural) Mini-jack (monaural), Max output level: 1 Vrms 1.7 kg (3 lb 12 oz) (including sealing bracket) ø147.4 x 190.9 mm (5 7/8 x 7 5/8 inches) HPoE (IEEE802.3at compliant), AC24V Approx. 25W -5 to t + 50 °C (23 to 122°F) 0 to 50 °C (32 to 122°F) -20 to +60 °C (-4 to +140°F)
Card slots Sensor input Alarm output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power consumption Operating temperature Storage temperature Storage temperature Storage temperature	SD memory card x 1 (Compatible with the SD/SDHC standards x2 x1 Mini-jack (monaural) Mini-jack (monaural), Max output level: 1 Vims 1.7 kg (3 lb 12 oz) (including sealing bracket) ø147.4 x 190.9 mm (5 7/8 x 7 5/8 inches) HPoE (IEEE802.3at compliant), AC24V Approx. 25W -5 to +50 °C (23 to 122°F) 0 to 50 °C (32 to 122°F) -20 to +60 °C (-4 to +140°F) Microsoft Windows XP (32bit) - Professional Edition
Card slots Sensor input Alarm output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power requirements Power consumption Operating temperature Storage temperature	SD memory card x 1 (Compatible with the SD/SDHC standards x2 x1 Mini-jack (monaural) Mini-jack (monaural) Mini-jack (monaural), Max output level: 1 Vrms 1.7 kg (3 lb 12 oz) (including sealing bracket) ø147.4 x 190.9 mm (5 7/8 x 7 5/8 inches) HPG (IEEE802.3at compilant), AC24V Approx. 25W -5 to +50 °C (23 to 122°F) 0 to 50 °C (32 to 122°F) -20 to +60 °C (-4 to +140°F) Microsoft Windows XP (32bit) - Professional Edition Microsoft Windows XP (32bit) - Utimrate, Business Edition
Card slots Sensor input Alarm output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power consumption Operating temperature Storage temperature Storage temperature System requirements Operating system	SD memory card x 1 (Compatible with the SD/SDHC standards x2 x1 Mini-jack (monaural) Mini-jack (monaural) Microsoft Windows XP (32bit) - Professional Edition Microsoft Windows V (32bit) - Utimate, Business Edition Microsoft Windows 7 (32/64bit) - Utimate, Professional Edition
Card slots Sensor input Alarm output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power consumption Operating temperature Storage temperature Storage temperature System requirements Operating system Processor	SD memory card x 1 (Compatible with the SD/SDHC standards x2 x1 Mini-jack (monaural) Mini-jack (monaural) Mini-jack (monaural), Max output level: 1 Virns 1.7 kg (3 lb 12 oz) (including sealing bracket) ø147.4 x 190.9 mm (5 7/8 x 7 5/8 inches) HPoE (IEEE802.3dt compilant), AC24V Approx. 25W -5 to +50 °C (23 to 122°F) 0 to 50 °C (32 to 122°F) -20 to +60 °C (-4 to +140°F) Microsoft Windows XP (32bit) - Professional Edition Microsoft Windows XP (32bit) - Utimate, Business Edition Microsoft Windows 7 (32/64bit) - Utimate, Professional Edition Microsoft Windows 7 (32/64bit) - Utimate, Professional Edition Microsoft Windows 7 (32/64bit) - Utimate, Professional Edition
Card slots Sensor input Alarm output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power consumption Operating temperature Storage temperature Storage temperature System requirements Operating system	SD memory card x 1 (Compatible with the SD/SDHC standards x2 x1 Mini-jack (monaural) Mini-jack (monaural) Mini-jack (monaural), Max output level: 1 Virms 1.7 kg (3 lb 12 oz) (including sealing bracket) ø147.4 x 190.9 mm (5 7/8 x 7 5/8 inches) HPoE (IEEE802.3at compliant), AC24V Approx. 25W -5 to +50 °C (23 to 122°F) 0 to 50 °C (32 to 122°F) 0 to 50 °C (32 to 122°F) -20 to +60 °C (-4 to +140°F) Microsoft Windows XP (32bit) - Professional Edition Microsoft Windows 7 (32/64bit) - Utimate, Business Edition Microsoft Windows 7 (32/64bit) - Utimate, Professional Edition
Card slots Sensor input Alarm output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power consumption Operating temperature Storage temperature Storage temperature System requirements Operating system Processor	SD memory card x 1 (Compatible with the SD/SDHC standards x2 x1 Mini-jack (monaural) Mini-jack (monaural), Max output level: 1 Virms 1.7 kg (3 lb 12 oz) (including sealing bracket) ø147.4 x 190.9 mm (5 7/8 x 7 5/8 inches) HP0E (IEEE802.3at compilant), AC24V Approx. 25W -5 to +50 °C (23 to 122°F) 0 to 50 °C (32 to 122°F) -20 to +60 °C (-4 to +140°F) Microsoft Windows XP (32bit) - Professional Edition Microsoft Windows 7 (32/64bit) - Ultimate, Business Edition Microsoft Windows 7 (32/64bit) - Ultimate, Business Edition Microsoft Windows 7 (32/64bit) - Ultimate, Professional Edition
Card slots Sensor input Alarm output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power consumption Operating temperature Storage temperature Storage temperature System requirements Operating system Processor	SD memory card x 1 (Compatible with the SD/SDHC standards x2 x1 Mini-jack (monaural) Mini-jack (monaural), Max output level: 1 Vims 1.7 kg (3 lb 12 oz) (including sealing bracket) ø147.4 x 190.9 mm (5 7/8 x 7 5/8 inches) HPoE (IEEE802.3at compliant), AC24V Approx. 25W -5 to +50 °C (23 to 122°F) 0 to 50 °C (32 to 122°F) -20 to +60 °C (-4 to +140°F) Microsoft Windows XP (32bit) - Professional Edition Microsoft Windows 7 (32/64bit) - Utimate, Business Edition Microsoft Windows 7 (32/64bit) - Utimate, Professional Edition
Card slots Sensor input Alarm output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power consumption Operating temperature Storage temperature Storage temperature System requirements Operating system Processor Memory	SD memory card x 1 (Compatible with the SD/SDHC standards x2 x1 Mini-jack (monaural) Mini-jack (monaural), Max output level: 1 Vrms 1.7 kg (3 lb 12 oz) (including sealing bracket) ø147.4 x 190.9 mm (5 7/8 x 7 5/8 inches) HPoE (IEEE802.3at compliant), AC24V Approx. 25W -5 to +50 °C (23 to 122°F) 0 to 50 °C (23 to 122°F) 0 to 50 °C (32 to 122°F) -20 to +60 °C (-4 to +140°F) Microsoft Windows XP (32bit) - Professional Edition Microsoft Windows 7 (32/64bit) - Utimate, Business Edition Microsoft Windows 7 (32/64bit) - Utimate, Professional Edition Microsoft Windows 7 (32/64bit) - Utimate, Professional Edition Microsoft Windows 7 (32/64bit) - Utimate, Professional Edition Microsoft Intel Core2 Duo 2 GHz or higher 1 GB or more Microsoft Internet Explorer Ver. 6.0, Ver. 7.0, Ver. 8.0 Firefox Ver.3.5 (Plug-in free viewer only) Sofari Ver.4.0 (Plug-in free viewer only)
Card slots Sensor input Alarm output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power consumption Operating temperature Storage temperature Storage temperature System requirements Operating system Processor Memory Web browser	SD memory card x 1 (Compatible with the SD/SDHC standards x2 x1 Mini-jack (monaural) Mini-jack (monaural) Mini-jack (monaural) Mini-jack (monaural) Mini-jack (monaural) Mini-jack (monaural) Mini-jack (monaural) Mini-jack (monaural) all 2 az j all 2 az j
Card slots Sensor input Alarm output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power consumption Operating temperature Storage temperature Storage temperature System requirements Operating system Processor Memory	SD memory card x 1 (Compatible with the SD/SDHC standards x2 x1 Mini-jack (monaural) Mini-jack (monaural), Max output level: 1 Vrms 1.7 kg (3 lb 12 oz) (including sealing bracket) ø147.4 x 190.9 mm (5 7/8 x 7 5/8 inches) HPoE (IEEE802.3at compliant), AC24V Approx. 25W -5 to +50 °C (23 to 122°F) 0 to 50 °C (23 to 122°F) 0 to 50 °C (32 to 122°F) -20 to +60 °C (-4 to +140°F) Microsoft Windows XP (32bit) - Professional Edition Microsoft Windows 7 (32/64bit) - Utimate, Business Edition Microsoft Windows 7 (32/64bit) - Utimate, Professional Edition Microsoft Windows 7 (32/64bit) - Utimate, Professional Edition Microsoft Windows 7 (32/64bit) - Utimate, Professional Edition 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)
Card slots Sensor input Alarm output External microphone input Audio line output General Mass Dimensions (Ø x H mm) Power requirements Power consumption Operating temperature Storage temperature Storage temperature System requirements Operating system Processor Memory Web browser	SD memory card x 1 (Compatible with the SD/SDHC standards x2 x1 Mini-jack (monaural) Mini-jack (monaural) Mini-jack (monaural) Mini-jack (monaural), Max output level: 1 Vrms 1.7 kg (3 lb 12 oz) (including sealing bracket) ø147.4 x 190.9 mm (5 7/8 x 7 5/8 inches) HPG (IEEE802.3at compilant), AC24V Approx. 25W -5 to +50 °C (23 to 122°F) 0 to 50 °C (32 to 122°F) -20 to +60 °C (-4 to +140°F) Microsoft Windows XP (32bit) - Professional Edition Microsoft Windows 7 (32/64bit) - Utimate, Business Edition Microsoft Windows 7 (32/64bit) - Utimate, Business Edition Microsoft Windows 7 (32/64bit) - Utimate, Business Edition Microsoft Windows 7 (32/64bit) - Utimate, Professional Edition Intel Core2 Duo 2 GHz or higher 1 G8 or more 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) CD-ROM (User's guide, supplied programs), Installation
Card slots Sensor input Alarm output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power consumption Operating temperature Storage temperature Storage temperature System requirements Operating system Processor Memory Web browser	SD memory card x 1 (Compatible with the SD/SDHC standards x2 x1 Mini-jack (monaural) Mini-jack (monaural) Mini-jack (monaural), Max output level: 1 Vrms 1.7 kg (3 lb 12 oz) (including sealing bracket) ø147.4 x 190.9 mm (5 7/8 x 7 5/8 inches) HPOE (IEEE802.3at compilant), AC24V Approx. 25W -5 to +50 °C (23 to 122°F) 0 to 50 °C (23 to 122°F) -20 to +60 °C (-4 to +140°F) Microsoft Windows 7 (32/64bit) - Ptofessional Edition Microsoft Windows 7 (32/64bit) - Uttimate, Business Edition Microsoft Windows 7 (32/64bit) - Uttimate, Business Edition Microsoft Windows 7 (32/64bit) - Uttimate, Ptofessional Edition Microsoft Windows 7 (32/64bit) - Uttimate, Ptofessional Edition Microsoft Internet Explorer Ver. 6.0, Ver. 7.0, Ver. 8.0 Firefox Ver.3.5 (Plug-in free viewer only) Sofari Ver.4.0 (Plug-in free viewer only) Google Chrome Ver.4.0 (Plug-in free viewer only)

\*The SNC-EP520 and SNC-EP521 include software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/). VIDEO SECURITY

IP RAPID DOME OR PTZ CAMERAS

## SNC-EP550

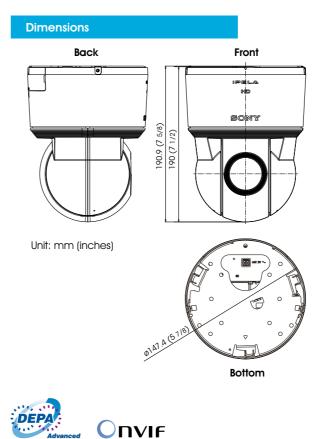
High-Quality 720p HD PTZ Camera. Excellent 720p HD picture quality, supporting 30 fps at H.264 (1280 x 720 maximum resolution). The "Exmor" CMOS sensor incorporated to realize high image quality and low noise. Powerful 28x optical zoom capability.

### Key Features and Benefits

- H254 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
- Recording software (RealShot Manager Lite) is bundled to start recording and monitoring instantly
- **DEPA Advanced analytics.** Advanced, powerful intelligent video analytics deliver enhanced system performance

### Standard Features and Benefits

- Excellent 720p HD picture quality at 30fps
- 28x optical and total zoom ratio of 336x with 12x digital zoom
- Wide-D technology to handle various lighting conditions in a scene
- Powered by hPoE for simple installation
- SD memory card slot for an on-board recording capability
- ONVIF (Open Network Video Interface Forum) Version 1.02
   conformance



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### **Specifications**

Camera	
Image device	1/4-type Exmor CMOS
Number of effective pixels	Approx. 1.43 Megapixel
	Color: 1.0lx (F1.35, shutter 1/30sec, AGC ON, 50IRE[IP])
Minimum Illumination	B/W: 0.11x (F1.35, shutter 1/30sec, AGC ON, Night Mode, 50IR [IP])
	Color: 0.7lx (F1.35, shutter 1/30sec, AGC ON, 30IRE[IP])
<b>The state of the state of the</b>	B/W: 0.07lx (F1.35, shutter 1/30sec, AGC ON, Night Mode, 30IRE[IP])
Electronic shutter speed	1/1 to 1/10,000 s
Gain control	Auto/Manual (-3 to 28 dB)
Exposure control	Full auto, Shutter priority, Iris priority, Manual
White balance mode	Auto, ATW, Indoor, Outdoor, One-push, Manual, Sodium
Lens type	Auto-focus Zoom Lens
Zoom ratio	Optical zoom 28x, Digital zoom 12x, Total zoom 336x
	55.9 to 2.1 degrees
Horizontal viewing angle Focal length	f=3.5 to 98 mm
F-number	F1.35 to F3.7
Minimum object distance	10mm (wide) to 1500mm (tele)
Pan angle	340 degrees
Pan Speed	300 degrees/s (max)
Tilt angle	105 degrees
Tilt speed	300 degrees/s (max)
Preset position	256 positions
Tour	5
Camera Features	
Day/Night	Yes
Wide-D	Yes
Noise Reduction	Yes
Image	
	1280×720, 1024×576, 800×600, 800×480, 768×576,
Codec image size (H x V)	720×576, 704×576, 720×480, 640×480, 640×368,
, , , , , , , , , , , , , , , , , , ,	384×288, 320×240, 320×192
Video compression format	H.264, MPEG-4, JPEG
Codec streaming capability	Dual streaming
Maximum frame rate	30 fps (H.264/MPEG-4/JPEG)
Audio	
Audio compression	G.711/G.726
	0.711/0.720
Scene Analytics	
Intelligent motion detection	Yes
Network	
Protocols	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client/
Protocols	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2)
ONVIF conformance	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2) Yes (Ver. 1.02)
ONVIF conformance Number of clients	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2) Yes (Ver. 1.02) 5
ONVIF conformance Number of clients Authentication	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2) Yes (Ver. 1.02)
ONVIF conformance Number of clients	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2) Yes (Ver. 1.02) 5
ONVIF conformance Number of clients Authentication	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2) Yes (Ver. 1.02) 5
ONVIF conformance Number of clients Authentication Interfoce	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2) Yes (Ver. 1.02) 5 IEEE802.1X
ONVIF conformance Number of clients Authentication Interface Ethernet	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2) Yes (Ver. 1.02) 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45)
ONVIF conformance Number of clients Authentication Interface Ethernet Card slots	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2) Yes (Ver. 1.02) 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) \$D memory card x 1 (Compatible with the SD/SDHC standards)
ONVIF conformance Number of clients Authentication Interface Ethermet Card slots Sensor input	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2) Yes (Ver. 1.02) 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standards) x2
ONVIF conformance Number of clients Authentication Interface Ethernet Card slots Sensor input Alarm output	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2) Yes (Ver. 1.02) 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standards) x2 x1
ONVIF conformance Number of clients Authentication Interface Ethernet Card slots Sensor input Alarm output External microphone input	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2)           Yes (Ver. 1.02)           5           IEEE802.1X           10BASE-T / 100BASE-TX (RJ-45)           SD memory card x 1 (Compatible with the SD/SDHC standards)           x2           x1           Mini-jack (monaural)
ONVIF conformance Number of clients Authentication Interface Ethernet Card slots Sensor input Alarm output External microphone input Audio line output General	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2) Yes (Ver. 1.02) 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standards) x2 x1 Mini-jack (monaural) Mini-jack (monaural), Max output level: 1 Vrms
ONVIF conformance Number of clients Authentication Interface Ethernet Card slots Sensor input Alarm output External microphone input Audio line output General Mass	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2) Yes (Ver. 1.02) 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) \$D memory card x 1 (Compatible with the SD/SDHC standards) x2 x1 Mini-jack (monaural) Mini-jack (monaural) Mini-jack (monaural) 1.7 kg (3 lb 12 oz) (including sealing bracket)
ONVIF conformance Number of clients Authentication Interface Ethernet Card slots Sensor input Alarm output External microphone input Audio line output General Mass Dimensions (ø x H mm)	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2) Yes (Ver. 1.02) 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standards) x2 x1 Mini-jack (monaural) Mini-jack (monaural) Mini-jack (monaural) Mini-jack (monaural) Mini-jack (monaural) Mini-jack (monaural) 4 1.7 kg (3 lb 12 oz) (including sealing bracket) ø147.4 x 190.9 mm (5 7/8 x 7 5/8 inches)
ONVIF conformance Number of clients Authentication Interface Ethemet Card slots Sensor input Alarm output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2)           Yes (Ver. 1.02)           5           IEEE802.1X           10BASE-T / 100BASE-TX (RJ-45)           SD memory card x 1 (Compatible with the SD/SDHC standards)           x1           Mini-jack (monaural)           Mini-jack (monaural)           1.7 kg (3 lb 12 oz) (including sealing bracket)           9147.4 x 190.9 mm (5 7/8 x 7 5/8 inches)           HPOE (IEEE802.3at compliant), AC24V
ONVIF conformance Number of clients Authentication Interface Ethernet Card slots Sensor input Alarm output External microphone input Audio line output General Mass Dimensions (Ø x H mm) Power requirements Power consumption	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2) Yes (Ver. 1.02) 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standards) x2 x1 Mini-jack (monaural), Max output level: 1 Vrms 1.7 kg (3 lb 12 oz) (including sealing bracket) ø147.4 x 190.9 mm (5 7/8 x 7 5/8 inches) HPoE (IEEE802.3dt compliant), AC24V Approx. 25W
ONVIF conformance Number of clients Authentication Interface Ethernet Card slots Sensor input Alarm output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power consumption Operating temperature	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2) Yes (Ver. 1.02) 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standards) x2 x1 Mini-jack (monaural), Max output level: 1 Vrms 1.7 kg (3 lb 12 oz) (including sealing bracket) ø147.4 x 190.9 mm (5 7/8 x 7 5/8 inches) HPG (IEEE802.3at compliant), AC24V Approx. 25W -5 to +50 °C (23 to 122°F)
ONVIF conformance Number of clients Authentication Interface Ethemet Card slots Sensor input Alarm output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power consumption Operating temperature Starting temperature	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2) Yes (Ver. 1.02) 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standards) x2 x1 Mini-jack (monaural) Mini-jack (monaural) Mini-ja
ONVIF conformance Number of clients Authentication Interface Ethernet Card slots Sensor input Alarm output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power consumption Operating temperature Storage temperature	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2) Yes (Ver. 1.02) 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standards) x2 x1 Mini-jack (monaural), Max output level: 1 Vrms 1.7 kg (3 lb 12 oz) (including sealing bracket) ø147.4 x 190.9 mm (5 7/8 x 7 5/8 inches) HPG (IEEE802.3at compliant), AC24V Approx. 25W -5 to +50 °C (23 to 122°F)
ONVIF conformance Number of clients Authentication Interface Ethernet Card slots Sensor input Alarm output External microphone input Audio line output General Dimensions (ø x H mm) Power requirements Power consumption Operating temperature Starting temperature	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2) Yes (Ver. 1.02) 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standards) x2 x1 Mini-jack (monaural) Mini-jack (monaural) Mini-ja
ONVIF conformance Number of clients Authentication Interface Ethernet Card slots Sensor input Alarm output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power consumption Operating temperature Storage temperature	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2)           Yes (Ver. 1.02)           5           IEEE802.1X           10BASE-T / 100BASE-TX (RJ-45)           SD memory card x 1 (Compatible with the SD/SDHC standards)           x2           NIni-jack (monaural)           Mini-jack (23 to 122*F)           0 to 50 °C (32 to 122*F)           -20 to +60 °C (-4 to +140*F)           Microsoft Windows VI(32bit) - Professional Edition           Microsoft Windows Vista(32bit) - Utimate, Business Edition
ONVIF conformance Number of clients Authentication Interface Ethernet Card slots Sensor input Alarm output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power consumption Operating temperature Storage temperature System requirements Operating system	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2) Yes (Ver. 1.02) 5 IEEE802.1X IEEE802.1X SD memory card x 1 (Compatible with the SD/SDHC standards) x2 x1 Mini-jack (monaural) Mini-jack (monaural) 0 for 57 (82 to 12°F) -5 to +50 °C (23 to 12°F) -20 to +60 °C (-4 to + 140°F) Microsoft Windows VIsta(32bit) - Utimate, Professional Edition Microsoft Windows 7 (32/64bit) - Utimate, Professional Edition
ONVIF conformance Number of clients Authentication Interface Ethemet Card slots Sensor input Alarm output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power consumption Operating temperature Storage temperature Storage temperature System requirements Operating system Processor	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2) Yes (Ver. 1.02) 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standards) x2 x1 Mini-jack (monaural) Mini-jack (monaural) 0 K or 0 (2000) 1.7 kg (3 lb 12 oz) (including sealing bracket) g 1.7 kg (3 l
ONVIF conformance Number of clients Authentication Interface Ethemet Card slots Sensor input Alarm output External microphone input Audio line output General Mass Dimensions (Ø x H mm) Power requirements Power consumption Operating temperature Starting temperature Starting temperature Starting temperature Storage temperature System requirements Operating system Processor Memory	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2) Yes (Ver. 1.02) 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standards) x2 x1 Mini-jack (monaural) Mini-jack (monaural) 0 K or 0 (2000) 0 to 50 °C (32 to 122°F) -20 to +60 °C (-4 to +140°F) Microsoft Windows XIsta(32bti) - Ultimate, Rusiness Edition Microsoft Vindows XIsta(32bti) - Ultimate, Rusiness Edition Microsoft Windows XIsta(32bti) - Ultimate, Rusiness Edition Microsoft Windows XIsta(32bti) - Ultimate, Rusiness Edition Microsoft Vinte X
ONVIF conformance         Number of clients         Authentication         Interface         Ethernet         Card slots         Sensor input         Alarm output         External microphone input         Audio line output         General         Dimensions (ø x H mm)         Power requirements         Power consumption         Operating temperature         Starting temperature         Storage temperature         System requirements         Operating system         Processor	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2) Yes (Ver. 1.02) 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standards) x2 Nini-jack (monaural) Mini-jack (monaural), Max output level: 1 Vrms 1.7 kg (3 lb 12 oz) (including sealing bracket) ø147.4 x 190.9 mm (5 7/8 x 7 5/8 inches) HPG (IEEE802.3at compliant), AC24V Approx. 25W -5 to +50 °C (23 to 122°F) 0 to 50 °C (32 to 122°F) -20 to +60 °C (-4 to + 140°F) Microsoft Windows XP(32bit) - Utimate, Business Edition Microsoft Windows XP(32bit) - Utimate, Business Edition Microsoft Windows XP(32bit) - Utimate, Professional Edition Microsoft Internet Explorer Ver. 6.0, Ver. 7.0, Ver. 8.0 Firefox Ver.3.5 (Plug-in free viewer only)
ONVIF conformance Number of clients Authentication Interface Ethernet Card slots Sensor input Alarm output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power consumption Operating temperature Starting temperature Starting temperature Starting temperature Starting temperature Storage temperature Web browser	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2) Yes (Ver. 1.02) 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standards) x2 x1 Mini-jack (monaural) Mini-jack (monaural) 0 K or 0 (2000) 0 to 50 °C (32 to 122°F) -20 to +60 °C (-4 to +140°F) Microsoft Windows XIsta(32bti) - Ultimate, Rusiness Edition Microsoft Vindows XIsta(32bti) - Ultimate, Rusiness Edition Microsoft Windows XIsta(32bti) - Ultimate, Rusiness Edition Microsoft Windows XIsta(32bti) - Ultimate, Rusiness Edition Microsoft Vinte X
ONVIF conformance Number of clients Authentication Interface Ethemet Card slots Sensor input Alarm output External microphone input Audio line output General Mass Dimensions (Ø x H mm) Power requirements Power consumption Operating temperature Starting temperature Starting temperature Starting temperature Storage temperature System requirements Operating system Processor Memory	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2) Yes (Ver. 1.02) 5 IEEE802.1X IEEE802.1X SD memory card x 1 (Compatible with the SD/SDHC standards) x2 x1 Mini-jack (monaural) Mini-jack (monaural) 0 fo 7 /8 x 7 5 /8 inches) HPOE (IEEE802.3at compliant), AC24V Approx. 25W -5 to +50 °C (23 to 122°F) 0 to 50 °C (23 to 122°F) -20 to +60 °C (-4 to + 140°F) Microsoft Windows VIsta(32bit) - Utimate, Professional Edition Microsoft Windows VIsta(
ONVIF conformance Number of clients Authentication Interface Ethernet Card slots Sensor input Alarm output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power consumption Operating temperature Starting temperature Starting temperature System requirements Operating system Processor Memory Web browser	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2) Yes (Ver. 1.02) 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standards) x2 Nini-jack (monaural) Mini-jack (monaural), Max output level: 1 Vrms 1.7 kg (3 lb 12 oz) (including sealing bracket) ø147.4 x 190.9 mm (5 7/8 x 7 5/8 inches) HPG (IEEE802.3at compliant), AC24V Approx. 25W -5 to +50 °C (23 to 122°F) 0 to 50 °C (32 to 122°F) -20 to +60 °C (-4 to + 140°F) Microsoft Windows XP(32bit) - Utimate, Business Edition Microsoft Windows XP(32bit) - Utimate, Business Edition Microsoft Windows XP(32bit) - Utimate, Professional Edition Microsoft Internet Explorer Ver. 6.0, Ver. 7.0, Ver. 8.0 Firefox Ver.3.5 (Plug-in free viewer only)

\*The SNC-EP550 includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/).

IP RAPID DOME OR PTZ CAME

## SNC-EP580

High-Quality 1080p HD PTZ Camera. Excellent 1080p HD picture quality, supporting 30 fps at H.264 (1920 x 1080 maximum resolution). The "Exmor" CMOS sensor incorporated to realize high image quality and low noise. Powerful 20x optical zoom capability.



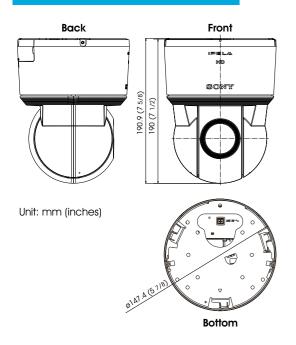
### Key Features and Benefits

- H234 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
- Recording software (RealShot Manager Lite) is bundled to start recording and monitoring instantly
- **DEPA Advanced analytics.** Advanced, powerful intelligent video analytics deliver enhanced system performance

### **Standard Features and Benefits**

- Excellent 1080p HD picture quality at 30fps
- 20x optical and total zoom ratio of 240x with 12x digital zoom
- Wide-D technology to handle various lighting conditions in a scene
- Powered by hPoE for simple installation
- SD memory card slot for an on-board recording capability
- ONVIF (Open Network Video Interface Forum) Version 1.02 conformance

### Dimensions





Camera	
Image device	1/2.8-type Exmor CMOS
Number of effective pixels	Approx. 3.27 Megapixel
Number of effective pixels	Colour: 1.7tx (F1.6, shutter 1/30sec, AGC ON, 50IRE[IP])
Minimum Illumination	B/W: 0.07kr (F1.6, shutter 1/30sec, AGC ON, Night Mode, 50lRE
Electronic shutter speed	1/1 to 1/10,000 s
Gain control	Auto/Manual (-3 to 28 dB)
	Full auto, Shutter priority, Iris priority, Manual
Exposure control	
White balance mode	Auto, ATW, Indoor, Outdoor, One-push, Manual, Sodium
longtime	Auto-focus Zoom Lens
Lens type	
Zoom ratio	Optical zoom 20x, Digital zoom 12x, Total zoom 240x
Horizontal viewing angle	55.4 to 2.9 degrees
Focal length	f=4.7 to 94.0 mm
F-number	F1.6 to F3.5
Minimum object distance	10mm (wide) to 800mm (tele)
Pan angle	340 degrees
Pan Speed	300 degrees/s (max)
Tilt angle	105 degrees
Tilt speed	300 degrees/s (max)
Preset position	256 positions
Tour	5
Camera Features	-
Day/Night	Yes
Wide-D	Yes*1
Noise Reduction	Yes
Image	
	1920×1080, 1680×1056, 1280×1024, 1440×912,
	1280×960, 1376×768, 1280×800, 1280×720, 1024×76
Codec image size (H x V)	1024×576, 800×600, 800×480, 768×576, 720×576,
	704×576, 720×480, 640×480, 640×368, 384×288,
	320×240, 320×192
Video compression format	H.264, MPEG-4, JPEG
Codec streaming capability	Dual streaming
Maximum frame rate	30 fps (H.264)
	30 lps (H.204)
Audio	
Audio compression	G.711/G.726
Scene Analytics	
Intelligent motion detection	
	Vos
Notwork	Yes
Network	
Network Protocols	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client
Protocols	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP[MIB-2]
Protocols ONVIF conformance	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP[MIB-2] Yes (Ver. 1.02)
Protocols ONVIF conformance Number of clients	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2) Yes (Ver. 1.02) 5
Protocols ONVIF conformance	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP[MIB-2] Yes (Ver. 1.02)
Protocols ONVIF conformance Number of clients	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2) Yes (Ver. 1.02) 5
Protocols ONVIF conformance Number of clients Authentication Interface	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2) Yes (Ver. 1.02) 5 IEEE802.1X
Protocols ONVIF conformance Number of clients Authentication Interface Ethernet	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2) Yes (Ver. 1.02) 5 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45)
Protocols ONVIF conformance Number of clients Authentication Interface Ethernet Card slots	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP[MIB-2] Yes (Ver. 1.02) 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standa
Protocols ONVIF conformance Number of clients Authentication Interface Ethermet Card slots Sensor input	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2) Yes (ver. 1.02) 5 IEEE802.1X 10BASE-T / 100BASE-TX. (RJ-45) SD memory card x 1 (compatible with the SD/SDHC standa x2
Protocols ONVIF conformance Number of clients Authentication Interface Ethernet Card slots Sensor input Alarm output	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2) Yes (ver. 1.02) 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standa x2 x1
Protocols ONVIF conformance Number of clients Authentication Interface Ethemet Card slots Sensor input Alarm output External microphone input	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTIP, HTIPS, FTP (client server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP[MIB-2] Yes (Ver. 1.02) 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standa x2 X1 Mini-jack (monaural)
Protocols ONVIF conformance Number of clients Authentication Interface Ethernet Card slots Sensor input Alarm output External microphone input Audio line output	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2) Yes (ver. 1.02) 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standa x2 x1
Protocols ONVIF conformance Number of clients Authentication Interface Ethemet Card slots Sensor input Alarm output External microphone input	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTIP, HTIPS, FTP (client server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP[MIB-2] Yes (Ver. 1.02) 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standa x2 X1 Mini-jack (monaural)
Protocols ONVIF conformance Number of clients Authentication Interface Ethernet Card slots Sensor input Alarm output External microphone input Audio line output	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTIP, HTIPS, FTP (client server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP[MIB-2] Yes (ver. 1.02) 5 IEEE802.1X 10BASE-T / 100BASE-TX. (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standa x2 x1 Mini-jack (monaural) Mini-jack (monaural), Max output level: 1 Virns
Protocols ONVIF conformance Number of clients Authentication Interface Ethernet Card slots Sensor input Alarm output External microphone input Audio line output General Mass	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2) Yes (ver. 1.02) 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standa x2 x1 Mini-jack (monaural) Max output level: 1 Vims 1.7 kg (3 lb 12 oz) (including sealing bracket)
Protocols ONVIF conformance Number of clients Authentication Interface Ethemet Card slots Sensor input Alarm output External microphone input Audio line output General Mass Dimensions (ø x H mm)	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTIP, HTIPS, FTP (client server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2) Yes (Ver. 1.02) 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standa x2 x1 Mini-jack (monaural), Max output level: 1 Vims 1.7 kg (3 lb 12 oz) (including sealing bracket) \$\overline{1}17.4 x 190.9 mm (5 7/8 x 7 5/8 inches)
Protocols ONVIF conformance Number of clients Authentication Interface Ethernet Card slots Sensor input Alarm output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP[MIB-2] Yes (Ver. 1.02) 5 IEEE802.1X 10BASE-T / 100BASE-TX. (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standa x2 x1 Mini-jack (monaural), Max output level: 1 Vrms 1.7 kg (3 lb 12 oz) (including sealing bracket) ø147.4 x 190.9 mm (5 7/8 x 7 5/8 inches) HPoE (IEEE802.3at compliant), AC24V
Protocols ONVIF conformance Number of clients Authentication Interface Ethermet Card slots Sensor input Alarm output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power consumption	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, IGMP, HTTP, HTTPS, FTP (client server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2) Yes (ver. 1.02)           5           IDBASE-T / 100BASE-TX (RJ-45)           SD memory card x 1 (Compatible with the SD/SDHC standa x2 x1           Mini-jack (monaural)           Mini-jack (monaural)           1.7 kg (3 lb 12 oz) (including sealing bracket)           91.7 kg (3 lb 12 oz) (including sealing bracket)           HPOE (IEEE802.3at compliant), AC24V           Approx. 25W
Protocols ONVIF conformance Number of clients Authentication Interface Ethernet Card slots Sensor input Alarm output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power consumption Operating temperature	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client server), SMIP, DHCP, DNS, NIP, RTP/RTCP, RTSP, SNMP(MIB-2) Yes (ver. 1.02)           5           IDBASE-T / 100BASE-TX (RJ-45)           SD memory card x 1 (Compatible with the SD/SDHC standa x2           Nini-jack (monaural)           Mini-jack (monaural)           Mini-jack (monaural)           1.7 kg (3 lb 12 oz) (including sealing bracket)           #102           #HPCE (IEEE802.3at compliant), AC24V           Approx. 25W           -5 to +50 °C (23 to 122°F)
Protocols ONVIF conformance Number of clients Authentication Interface Ethemet Card slots Sensor input Alarm output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power consumption Operating temperature Starting temperature	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTIP, HTIPS, FTP (client server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP[MIB-2]           Yes (Ver. 1.02)           Yes (Ver. 1.02)           Yes (Ver. 1.02)           S           IDBASE-T / 100BASE-TX (RJ-45)           SD memory card x 1 (Compatible with the SD/SDHC standa           x2           x1           Mini-jack (monaural)           Mini-jack (monaural)           Mini-jack (monaural)           Mini-jack (monaural), Max output level: 1 Vrms           1.7 kg (3 lb 12 oz) (including sealing bracket)           g147.4 x 190.9 mm (5 7/8 x 7 5/8 inches)           HPoE (IEEE802.3at compliant), AC24V           Approx. 25W           -5 to +50 °C (23 to 122°F)           0 to 50 °C (23 to 122°F)
Protocols ONVIF conformance Number of clients Authentication Interface Ethemet Card slots Sensor input Alarm output External microphone input Audio line output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power consumption Operating temperature Starting temperature Storage temperature	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client server), SMIP, DHCP, DNS, NIP, RTP/RTCP, RTSP, SNMP(MIB-2) Yes (ver. 1.02)           5           IDBASE-T / 100BASE-TX (RJ-45)           SD memory card x 1 (Compatible with the SD/SDHC standa x2           Nini-jack (monaural)           Mini-jack (monaural)           Mini-jack (monaural)           1.7 kg (3 lb 12 oz) (including sealing bracket)           #102           #HPCE (IEEE802.3at compliant), AC24V           Approx. 25W           -5 to +50 °C (23 to 122°F)
Protocols ONVIF conformance Number of clients Authentication Interface Ethemet Card slots Sensor input Alarm output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power consumption Operating temperature Starting temperature	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTIP, HTIPS, FTP (client server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP[MIB-2]           Yes (Ver. 1.02)           Yes (Ver. 1.02)           Yes (Ver. 1.02)           S           IDBASE-T / 100BASE-TX (RJ-45)           SD memory card x 1 (Compatible with the SD/SDHC standa           x2           x1           Mini-jack (monaural)           Mini-jack (monaural)           Mini-jack (monaural)           Mini-jack (monaural), Max output level: 1 Vrms           1.7 kg (3 lb 12 oz) (including sealing bracket)           g147.4 x 190.9 mm (5 7/8 x 7 5/8 inches)           HPoE (IEEE802.3at compliant), AC24V           Approx. 25W           -5 to +50 °C (23 to 122°F)           0 to 50 °C (23 to 122°F)
Protocols ONVIF conformance Number of clients Authentication Interface Ethemet Card slots Sensor input Alarm output External microphone input Audio line output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power consumption Operating temperature Starting temperature Storage temperature	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, IGMP, HTTP, HTTP, STP, Client server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP[MIB-2] Yes (Ver. 1.02)           5           IDBASE-T / 100BASE-TX. (RJ-45)           SD memory card x 1 (Compatible with the SD/SDHC standa x2           x1           Mini-jack (monaural)           Mini-jack (monaural)           Mini-jack (monaural)           1.7 kg (3 lb 12 oz) (including sealing bracket)           #POE (IEEE802.3af compliant), AC24V           Approx. 25W           -5 to +50 °C (23 to 122°F)           -20 to +60 °C (-4 to +140°F)
Protocols ONVIF conformance Number of clients Authentication Interface Ethemet Card slots Sensor input Alarm output External microphone input Audio line output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power consumption Operating temperature Starting temperature Storage temperature	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMPP(MIB-2) Yes (ver. 1.02) 5 IEEE802.1X 10BASE-T / 100BASE-TX. (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standa x2 x1 Mini-jack (monaural), Max output level: 1 Vims 1.7 kg (3 lb 12 oz) (including sealing bracket) Ø147.4 x 190.9 mm (5 7/8 x 7 5/8 inches) HPoE (IEEE802.3at compliant), AC24V Approx. 25W -5 to +50 °C (23 to 122°F) 0 to 50 °C (23 to 122°F) -20 to +60 °C (-4 to + 140°F) Microsoft Windows XP(32bit) - Professional Edition
Protocols ONVIF conformance Number of clients Authentication Interface Ethernet Card slots Sensor input Alarn output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power consumption Operating temperature Storage temperature Storage temperature System requirements	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTP, STP (client server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP[MIB-2] Yes (Ver. 1.02) 5 IEEE802.1X 108ASE-T / 1008ASE-TX (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standa x2 x1 Mini-jack (monaural), Max output level: 1 Vrms 1.7 kg (3 lb 12 oz) (including sealing bracket) Ø147.4 x 190.9 mm (5 7/8 x 7 5/8 inches) HPoE (IEEE802.3at compliant), AC24V Approx. 25W -5 to +50 °C (23 to 122°F) 0 to 50 °C (23 to 122°F) -20 to +60 °C (-4 to +140°F) Microsoft Windows XP(32bit) - Professional Edition Microsoft Windows XP(32bit) - Utimate, Business Edition
Protocols ONVIF conformance Number of clients Authentication Interface Ethernet Card slots Sensor input Alarn output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power consumption Operating temperature Storage temperature Storage temperature System requirements	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTP, STP (client server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP[MIB-2] Yes (Ver. 1.02) 5 IEEE802.1X 108ASE-T / 1008ASE-TX (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standa x2 x1 Mini-jack (monaural), Max output level: 1 Vrms 1.7 kg (3 lb 12 oz) (including sealing bracket) Ø147.4 x 190.9 mm (5 7/8 x 7 5/8 inches) HPoE (IEEE802.3at compliant), AC24V Approx. 25W -5 to +50 °C (23 to 122°F) 0 to 50 °C (23 to 122°F) -20 to +60 °C (-4 to +140°F) Microsoft Windows XP(32bit) - Professional Edition Microsoft Windows XP(32bit) - Utimate, Business Edition
Protocols ONVIF conformance Number of clients Authentication Interface Ethemet Card slots Sensor input Alam output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power consumption Operating temperature Storage system Piocessor	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2) Yes (ver. 1.02) 5 IEEE802.1X 10BASE-T / 100BASE-TX. (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standa x2 x1 Mini-jack (monaural) Max output level: 1 Vims 1.7 kg (3 lb 12 oz) (including sealing bracket) Ø147.4 x 190.9 mm (5 7/8 x 7 5/8 inches) HPoE (IEEE802.3at compliant), AC24V Approx. 25W -5 to +50 °C (23 to 122°F) 0 to 50 °C (23 to 122°F) -20 to +60 °C (-4 tot + 140°F) Microsoft Windows XP(32bit) - Professional Edition Microsoft Windows XP(32bit) - Utimate, Business Edition Microsoft Windows 7 (32/64bit) - Utimate, Business Edition Microsoft Windows 7 (32/64bit) - Utimate, Business Edition
Protocols ONVIF conformance Number of clients Authentication Interface Ethernet Card slots Sensor input Adam output External microphone input Adato line output General Mass Dimensions (ø x H mm) Power requirements Power consumption Operating temperature Starting temperature Starting temperature System requirements Operating system	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, IGMP, HTTP, HTTPS, FTP (client server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP[MIB-2] Yes (Ver. 1.02) 5 IEEE802.1X 10BASE-T / 100BASE-TX. (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standa x2 x1 Mini-jack (monaural), Max output level: 1 Virms 1.7 kg (3 lb 12 oz) (including sealing bracket) Ø147.4 x 190.9 mm (5 7/8 x 7 5/8 inches) HPoE (IEEE802.3dt compliant), AC24V Approx. 25W -5 to +50 °C (23 to 122°F) 0 to 50 °C (23 to 122°F) -20 to +60 °C (-4 to +140°F) Microsoft Windows X[32/bit] - Professional Edition Microsoft Windows X [32/c4bt]) - Utimrate, Business Editior
Protocols ONVIF conformance Number of clients Authentication Interface Ethemet Card slots Sensor input Adam output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power consumption Operating temperature Storage temperature Storage temperature Storage temperature Storage system Processor Memory	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTP, FTP (client server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP[MIB-2] Yes (Ver. 1.02) 5 IEEE802.1X 10BASE-T / 100BASE-TX. (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standa x2 x1 Mini-jack (monaural), Max output level: 1 Virms 1.7 kg (3 lb 12 o2) (including sealing bracket) Ø147.4 x 190.9 mm (5 7/8 x 7 5/8 inches) HPOE (IEEE802.3at compliant), AC24V Approx. 25W -5 to +50 °C (23 to 122°F) 0 to 50 °C (24 to +140°F) Microsoft Windows XP(32bit) - Professional Edition Microsoft Windows X(32/64bit) - Utimate, Business Editior Microsoft Windows X(32/64bit) - Utimate, Professional Edition Microsoft Windows X(32/64bit) - Utimate, Professional Edition Microsoft Windows V(32/64bit) - Utimate, Rofessional Edition Microsoft Windows V(32/64bit) - Utimate, Professional Edition
Protocols ONVIF conformance Number of clients Authentication Interface Ethemet Card slots Sensor input Alam output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power consumption Operating temperature Storage system Piocessor	IPv4, IPv6, TCP, UDP, APP, ICMP, IGMP, HTTP, HTTP, FTP (client server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2) Yes (Ver. 1.02) 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standa x2 x1 Mini-jack (monaural), Max output level: 1 Vrms 1.7 kg (3 lb 12 oz) (including sealing bracket) Ø147.4 x 190.9 mm (5 7/8 x 7 5/8 inches) HPoE (IEEE802.3dt compliant), AC24V Approx. 25W -5 to +50 °C (23 to 122°F) 0 to 50 °C (23 to 122°F) -20 to +60 °C (-4 to +140°F) Microsoft Windows XP(32bit) - Utimate, Professional Edition Microsoft Windows XP(32bit) - Vitimate, Professional Edition
Protocols ONVIF conformance Number of clients Authentication Interface Ethemet Card slots Sensor input Adam output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power consumption Operating temperature Storage temperature Storage temperature Storage temperature Storage system Processor Memory	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTP, FTP (client server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP[MIB-2] Yes (Ver. 1.02) 5 IEEE802.1X 10BASE-T / 100BASE-TX. (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standa x2 x1 Mini-jack (monaural), Max output level: 1 Virms 1.7 kg (3 lb 12 o2) (including sealing bracket) Ø147.4 x 190.9 mm (5 7/8 x 7 5/8 inches) HPOE (IEEE802.3at compliant), AC24V Approx. 25W -5 to +50 °C (23 to 122°F) 0 to 50 °C (24 to +140°F) Microsoft Windows XP(32bit) - Professional Edition Microsoft Windows X(32/64bit) - Utimate, Business Editior Microsoft Windows X(32/64bit) - Utimate, Professional Edition Microsoft Windows X(32/64bit) - Utimate, Professional Edition Microsoft Windows V(32/64bit) - Utimate, Rofessional Edition Microsoft Windows V(32/64bit) - Utimate, Professional Edition
Protocols ONVIF conformance Number of clients Authentication Interface Ethernet Card slots Sensor input Alam output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power consumption Operating temperature Starting temperature Starting temperature System requirements Operating system Processor Memory Web browser	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTP, STP (client server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP[MIB-2] Yes (Ver. 1.02) 5 IEEE802.1X 10BASE-T / 100BASE-TX. (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standa x2 x1 Mini-jack (monaural), Max output level: 1 Vrms 1.7 kg (3 lb 12 oz) (including sealing bracket) ø147.4 x 190.9 mm (5 7/8 x 7 5/8 inches) HPoE (IEEE802.3at compliant), AC24V Approx. 25W -5 to +50 °C (23 to 122°F) 0 to 50 °C (32 to 122°F) -20 to +60 °C (-4 to +140°F) Microsoft Windows XP(32bit) - Utimate, Professional Edition 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)
Protocols ONVIF conformance Number of clients Authentication Interface Ethemet Card slots Sensor input Adam output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power consumption Operating temperature Storage temperature Storage temperature Storage temperature Storage system Processor Memory	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2) Yes (Ver. 1.02) 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standar x2 x1 Mini-jack (monaural) Mini-jack (monaural) Mini-jack (monaural) Mini-jack (monaural) Mini-jack (monaural) Mini-jack (monaural) Mini-jack (Exposed and the start of the start start of the start of the start of the start part of the start of the start of the start of the start start of the start o
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\*1 When using Wide-D technology, the maximum frame rate will be 15fps.
\*The SNC-EP580 includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/).

VIDEO SECURITY

IP RAPID DOME OR PTZ CAMERAS

## SNC-ER521

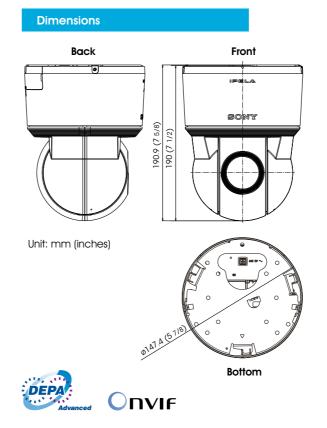
High-Quality Rapid Dome Camera. Three codecs (H.264, MPEG-4, JPEG) and dual-streaming capability. High-speed 360 degrees endless rotation. Powerful 36x optical zoom capability. Wide-D technology. Slim and stylish.

### Key Features and Benefits

- High-Speed 360 degrees endless rotation
- Above-the-horizon tilt. 15° tilt-up, total tilt range of 210°
- H254 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
- Recording software (RealShot Manager Lite) is bundled to start recording and monitoring instantly
- **DEPA Advanced analytics.** Advanced, powerful intelligent video analytics deliver enhanced system performance

### Standard Features and Benefits

- 36x optical and total zoom ratio of 432x with 12x digital zoom
- Wide-D technology to handle various lighting conditions in a scene
- Powered by hPoE for simple installation
- SD memory card slot for an on-board recording capability
- ONVIF (Open Network Video Interface Forum) Version 1.02
   conformance





### **Specifications**

Camera	
Image device	1/4-type EXview HAD CCD
Number of effective pixels	Approx. 0.44 Megapixel
Minimum Illumination	Colour: 1.4lx (F1.6, shutter 1/50sec, AGC ON(50IRE[IP])
	B/W: 0.15lx (F1.6, shutter 1/50sec, AGC ON, Night Mode ,50IRE[IP])
Signal system	PAL standard
Electronic shutter speed	1/1 to 1/10,000 s
Auto gain control Exposure control	Auto/Manual (-3 to 28 dB) Full auto, Shutter priority, Iris priority, Manual
Exposure control	Auto, ATW, Indoor, Outdoor, One-push, Manual, Sodium
White balance mode	vapour lamp
Lens type	Auto-focus Zoom Lens
Zoom ratio	Optical zoom 36x, Digital zoom 12x, Total zoom 432x
Horizontal viewing angle	57.8 to 1.7 degrees
Focal length	f=3.4 to 122.4 mm
F-number	F1.6 to F4.5
Minimum object distance	10mm (wide) to 1500mm (tele)
Pan angle	360 degrees
Pan Speed	300 degrees/s (max)
Tilt angle	210 degrees
Tilt speed	300 degrees/s (max)
Preset position Tour	256 positions 5
	5
Camera Features	
Day/Night	Yes
Wide-D	Yes
Noise Reduction	Yes
Image	
Codec image size (H x V)	720×576, 704×576, 640×480, 384×288, 320×240
Video compression format	H.264, MPEG-4, JPEG
Codec streaming capability	Dual streaming
Maximum frame rate	30 fps (H.264/MPEG-4/JPEG)
Audio	
Audio compression	G.711/G.726
Scene Analytics	
Intelligent motion detection	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)
Protocols ONVIF conformance Number of clients	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP[MIB-2) Yes (Ver. 1.02) 5
Protocols ONVIF conformance Number of clients Authentication	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2) Yes (Ver. 1.02)
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Protocols ONVIF conformance Number of clients Authentication Interface Ethemet Card slots Sensor input Alarm output	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP[MIB-2) Yes (Ver. 1.02) 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standards) x2 x1
Protocols ONVIF conformance Number of clients Authentication Interface Ethemet Card slots Sensor input Alarm output External microphone input	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMPI(MIB-2) Yes (Ver. 1.02) 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standards) x2 x1 Mini-jack (monaural)
Protocols ONVIF conformance Number of clients Authentication Interface Ethemet Card slots Sensor input Alarm output External microphone input Audio line output	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP[MIB-2) Yes (Ver. 1.02) 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standards) x2 x1
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Protocols ONVIF conformance Number of clients Authentication Interface Ethernet Card slots Sensor input Alarm output External microphone input Audio line output General Mass	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP[MIB-2) Yes (Ver. 1.02) 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standards) x2 x1 Mini-jack (monaural), Max output level: 1 Vrms 1.7 kg (3 lb 12 oz) (including sealing bracket)
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Protocols ONVIF conformance Number of clients Authentication Interface Ethernet Card slots Sensor input Adarm output External microphone input Audio line output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power consumption Operating temperature	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMPP(MIB-2) Yes (Ver. 1.02) 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standards) x2 x1 Mini-jack (monaural), Max output level: 1 Vrms 1.7 kg (3 lb 12 oz) (including sealing bracket) Ø147.4 x 190.9 mm (5 7/8 x 7 5/8 inches) HPDG (IEEE802.3at compliant), AC24V Approx. 25W -5 to +50 °C (23 to 122°F)
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Protocols ONVIF conformance Number of clients Authentication Interface Ethemet Card slots Sensor input Alarm output External microphone input Audio line output <b>External microphone input</b> Audio line output <b>General</b> Mass Dimensions (ø x H mm) Power requirements Power consumption Operating temperature	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMPI(MIB-2) Yes (Ver. 1.02) 5 10BASE-T / 100BASE-TX (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standards) x2 x1 Mini-jack (monaural), Max output level: 1 Vrms 1.7 kg (3 lb 12 oz) (including sealing bracket) Ø147.4 x 190.9 mm (5 7/8 x 7 5/8 inches) HPoE (IEEE802.3at compliant), AC24V Approx. 25W -5 to +50 °C (23 to 122°F) 0 to 50 °C (32 to 122°F) -20 to +60 °C (-4 to +140°F)
Protocols ONVIF conformance Number of clients Authentication Interface Ethemet Card slots Sensor input Alarm output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power consumption Operating temperature Starting temperature	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMPP(MIB-2) Yes (Ver. 1.02) 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standards) x2 x1 Mini-jack (monaural), Max output level: 1 Vrms 1.7 kg (3 lb 12 oz) (including sealing bracket) Ø147.4 x 190.9 mm (5 7/8 x 7 5/8 inches) HPDG (IEEE802.3at compliant), AC24V Approx. 25W -5 to +50 °C (23 to 122°F) 0 to 50 °C (32 to 122°F) -20 to +60 °C (-4 to +140°F) Microsoft Windows XP(32bit) - Professional Edition Microsoft Windows XP(32bit) - Utimate, Business Edition
Protocols ONVIF conformance Number of clients Authentication Interface Ethemet Card slots Sensor input Alarm output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power consumption Operating temperature Storage temperature Storage temperature System requirements Operating system	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMPI(MIB-2) Yes (Ver. 1.02) 5 10BASE-T / 100BASE-TX (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standards) x2 x1 Mini-jack (monaural), Max output level: 1 Vrms 1.7 kg (3 lb 12 oz) (including sealing bracket) Ø147.4 x 190.9 mm (5 7/8 x 7 5/8 inches) HPoE (IEEE802.3at compliant), AC24V Approx. 25W -5 to +50 °C (23 to 122°F) 0 to 50 °C (32 to 122°F) -20 to +60 °C (-4 to + 140°F) Microsoft Windows XI(32bit) - Utimate, Business Edition Microsoft Windows 7 (32/64bit) - Utimate, Professional Edition
Protocols ONVIF conformance Number of clients Authentication Interface Ethemet Card slots Sensor input Audio line output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power consumption Operating temperature Storage temperature Storage temperature System requirements Operating system Processor	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMPI/MIB-2) Yes (Ver. 1.02) 5 IEEE802.1X 10BASE-T / 100BASE-TX (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standards) x2 x1 Mini-jack (monaural), Max output level: 1 Vrms 1.7 kg (3 lb 12 oz) (including sealing bracket) ø147.4 x 190.9 mm (5 7/8 x 7 5/8 inches) HPOE (IEEE802.3at compilant), AC24V Approx. 25W -5 to +50 °C (32 to 122°F) 0 to 50 °C (32 to 122°F) -20 to +60 °C (-4 to +140°F) Microsoft Windows XP(32bit) - Professional Edition Microsoft Windows X (32/64bit) - Utimate, Business Edition Microsoft Windows X (32/64bit) - Utimate, Professional Edition Intel Core2 Duo 2 GHz or higher
Protocols ONVIF conformance Number of clients Authentication Interface Ethemet Card slots Sensor input Alarm output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power consumption Operating temperature Storage temperature Storage temperature System requirements Operating system	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMPI/MIB-2) Yes (Ver. 1.02) 5 10BASE-T / 100BASE-TX (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standards) x2 x1 Mini-jack (monaural), Max output level: 1 Vrms 1.7 kg (3 lb 12 oz) (including sealing bracket) Ø147.4 x 190.9 mm (5 7/8 x 7 5/8 inches) HPCE (IEEE802.3dr compliant), AC24V Approx. 25W -5 to +50 °C (23 to 122°F) 0 to 50 °C (24 to 122°F) -20 to +60 °C (-4 to +140°F) Microsoft Windows XP(32bit) - Professional Edition Microsoft Windows XP(32bit) - Professional Edition Microsoft Windows 7 (32/64bit) - Utlimate, Business Edition Microsoft Windows 7 (32/64bit) - Utlimate, Professional Edition Microsoft Windows 7 (32/64bit) - Utlimate, Professional Edition Microsoft Internet Explorer Ver. 6.0, Ver. 7.0, Ver. 8.0 Firefox Ver.3.5 (Plug-in free viewer only) Safarl Ver.4.0 (Plug-in free viewer only)
Protocols ONVIF conformance Number of clients Authentication Interface Ethemet Card slots Sensor input Adarm output External microphone input Audio line output General Mass Dimensions (Ø x H mm) Power requirements Power consumption Operating temperature Storage temperature Storage temperature Storage temperature Storage temperature Storage temperature Operating system Processor Memory Web browser	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMPI/MIB-2) Yes (Ver. 1.02) 5 10BASE-T / 100BASE-TX (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standards) x2 x1 Mini-jack (monaural), Max output level: 1 Vrms 1.7 kg (3 lb 12 oz) (including sealing bracket) @147.4 x 190.9 mm (5 7/8 x 7 5/8 inches) HPOE (IEEE802.3at compliant), AC24V Approx. 25W -5 to +50 °C (23 to 122°F) 0 to 50 °C (23 to 122°F) 0 to 50 °C (24 to + 140°F) Microsoft Windows XI(32bit) - Professional Edition Microsoft Windows X (32/64bit) - Utimate, Rusiness Edition Microsoft Windows X (32/64bit) - Utimate, Professional Edition Microsoft Vindows X (32/64bit) - Utimate, Professional Edition Microsoft Vindows X (32/64bit) - Ver 7.0, Ver 7.0, Ver 8.0 Firefox Ver 3.5 (Plug-in free viewer only)
Protocols ONVIF conformance Number of clients Authentication Interface Ethemet Card slots Sensor input Alarm output External microphone input Audio line output General Mass Dimensions (ø x H mm) Power requirements Power consumption Operating temperature Starting temperature Starting temperature System requirements Operating system Processor Memory	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMPI/MIB-2) Yes (Ver. 1.02) 5 10BASE-T / 100BASE-TX (RJ-45) SD memory card x 1 (Compatible with the SD/SDHC standards) x2 x1 Mini-jack (monaural), Max output level: 1 Vrms 1.7 kg (3 lb 12 oz) (including sealing bracket) Ø147.4 x 190.9 mm (5 7/8 x 7 5/8 inches) HPCE (IEEE802.3dr compliant), AC24V Approx. 25W -5 to +50 °C (23 to 122°F) 0 to 50 °C (24 to 122°F) -20 to +60 °C (-4 to +140°F) Microsoft Windows XP(32bit) - Professional Edition Microsoft Windows XP(32bit) - Professional Edition Microsoft Windows 7 (32/64bit) - Utlimate, Business Edition Microsoft Windows 7 (32/64bit) - Utlimate, Professional Edition Microsoft Windows 7 (32/64bit) - Utlimate, Professional Edition Microsoft Internet Explorer Ver. 6.0, Ver. 7.0, Ver. 8.0 Firefox Ver.3.5 (Plug-in free viewer only) Safarl Ver.4.0 (Plug-in free viewer only)

\*The SNC-ER520 and SNC-ER521 include software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/).

### IP RAPID DOME OR PTZ CAME

## SNC-ER550

High-Quality 720p HD Rapid Dome Camera. Excellent 720p HD picture quality, supporting 30 fps at H.264 (1280 x 720 maximum resolution). The "Exmor" CMOS sensor incorporated to realize high image quality and low noise. High-speed 360 degrees endless rotation. Powerful 28x optical zoom capability.

# HO SONY

### IFSEC2011 SECURITY INDUSTRY AWARDS FINALIST

### Specifications

### Key Features and Benefits

- High-Speed 360 degrees endless rotation
- Above-the-horizon tilt. 15°tilt-up, total tilt range of 210°
- H264 JPEG, MPEG-4 and H.264 streaming. JPEG, MPEG-4, H.264 encoding allows maximum image transmission flexibility
- **C** Day/night function. Switches automatically to mono in night conditions
- Recording software (RealShot Manager Lite) is bundled to start recording and monitoring instantly
- **DEPA Advanced analytics.** Advanced, powerful intelligent video analytics deliver enhanced system performance

### Standard Features and Benefits

- Excellent 720p HD picture quality at 30fps
- 28x optical and total zoom ratio of 336x with 12x digital zoom
- Wide-D technology to handle various lighting conditions in a scene
- Powered by hPoE for simple installation
- SD memory card slot for an on-board recording capability
- ONVIF (Open Network Video Interface Forum) Version 1.02 conformance

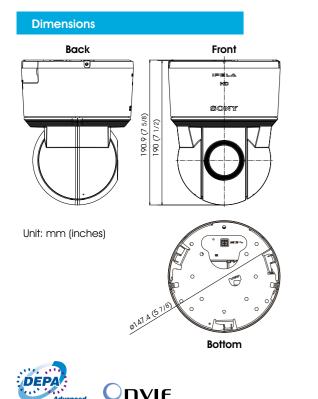


Image device	1/4-type Exmor CMOS
Number of effective pixels	Approx. 1.43 Megapixel Color: 1.0k (F1.35. shutter 1/30sec, AGC ON, 50(RE(IPI)
Minimum Illumination	B/W: 0.1k (F1.35, shutter 1/30sec, AGC ON, Night Mode, 50IRE[II
	Color: 0.7lx (F1.35, shutter 1/30sec, AGC ON, 30IRE[IP])
	B/W: 0.07lx (F1.35, shutter 1/30sec, AGC ON, Night Mode, 30IRE[
Electronic shutter speed	1/1 to 1/10,000 s
Gain control	Auto/Manual (-3 to 28 dB)
Exposure control	Full auto, Shutter priority, Iris priority, Manual
	Auto, ATW, Indoor, Outdoor, One-push, Manual, Sodium
White balance mode	vapour lamp
Lens type	Auto-focus Zoom Lens
Zoom ratio	Optical zoom 28x, Digital zoom 12x, Total zoom 336x
Horizontal viewing angle	55.9 to 2.1 degrees
	-
Focal length	f=3.5 to 98 mm
F-number	F1.35 to F3.7
Minimum object distance	10mm (wide) to 1500mm (tele)
Pan angle	360 degrees endless rotation
Pan Speed	300 degrees/s (max)
Tilt angle	210 degrees (with e-flip)
	- · · · · · · · · · · · · · · · · · · ·
Tilt speed	300 degrees/s (max)
Preset position	256 positions
Tour	5
Camera Features	
Day/Night	Yes
Wide-D	Yes
Noise Reduction	Yes
Image	
	1280×720, 1024×576, 800×600, 800×480, 768×576,
Codec image size (H x V)	720×576, 704×576, 720×480, 640×480, 640×368,
····· · · · · · · · · · · · · · · · ·	384×288, 320×240, 320×192
Video compression format	H.264, MPEG-4, JPEG
Codec streaming capability	
	Dual streaming
Maximum frame rate	30 fps (H.264/MPEG-4/JPEG)
Audio	
Audio compression	G.711/G.726
Scene Analytics	
Intelligent motion detection	Yes
Network	
	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client/
Protocols	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2)
ONVIF conformance	Yes (Ver. 1.02)
Number of clients	5
Authentication	IEEE802.1X
	IEEE002.1X
Interface	
Ethernet	10BASE-T / 100BASE-TX (RJ-45)
Card slots	SD memory card x 1 (Compatible with the SD/SDHC standard
Sensor input	x2
Alarm output	l Ix
External microphone input	Mini-jack (monaural)
Audio line output	Mini-jack (monaural), Max output level: 1 Vrms
General	
Mass	1.7 kg (3 lb 10 oz) (isstuding social bracket)
	1.7 kg (3 lb 12 oz) (including sealing bracket)
Dimensions (ø x H mm)	ø147.4 x 190.9 mm (5 7/8 x 7 5/8 inches)
Power requirements	HPoE (IEEE802.3at compliant), AC24V
Power requirements	HPoE (IEEE802.3at compliant), AC24V Approx. 25W
Power requirements Power consumption	
Power requirements Power consumption Operating temperature	Approx. 25W -5 to +50 °C (23 to 122°F)
Power requirements Power consumption Operating temperature Starting temperature	Approx. 25W -5 to +50 °C (23 to 122°F) 0 to 50 °C (32 to 122°F)
Power requirements Power consumption Operating temperature Starting temperature Storage temperature	Approx. 25W -5 to +50 °C (23 to 122°F)
Power requirements Power consumption Operating temperature Starting temperature Storage temperature	Approx. 25W -5 to +50 °C (23 to 122°F) 0 to 50 °C (32 to 122°F) -20 to +60 °C (-4 to +140°F)
Power requirements Power consumption Operating temperature Starting temperature Storage temperature System requirements	Approx. 25W -5 to +50 °C (23 to 122°F) 0 to 50 °C (32 to 122°F) -20 to +60 °C (-4 to +140°F) Microsoft Windows XP(32bit) - Professional Edition
Power requirements Power consumption Operating temperature Starting temperature Storage temperature System requirements	Approx. 25W -5 to +50 °C (23 to 122°F) 0 to 50 °C (32 to 122°F) -20 to +60 °C (-4 to +140°F)
Power requirements Power consumption Operating temperature Starting temperature Storage temperature System requirements	Approx. 25W           -5 to +50 °C (23 to 122°F)           0 to 50 °C (32 to 122°F)           -20 to +60 °C (-4 to +140°F)           Microsoft Windows XP(32bit) - Professional Edition           Microsoft Windows Vista(32bit) - Utimate, Business Edition
Power requirements Power consumption Operating temperature Starting temperature Storage temperature System requirements	Approx. 25W           -5 to +50 °C (23 to 122°F)           0 to 50 °C (32 to 122°F)           -20 to +60 °C (-4 to +140°F)           Microsoft Windows XP(32bit) - Professional Edition           Microsoft Windows Vista(32bit) - Utimate, Business Edition
Power requirements Power consumption Operating temperature Storage temperature System requirements Operating system Processor	Approx. 25W -5 to +50 °C (23 to 122°F) 0 to 50 °C (32 to 122°F) -20 to +60 °C (-4 to +140°F) Microsoft Windows XP(32bit) - Professional Edition Microsoft Windows XP(32bit) - Ultimate, Business Edition Microsoft Windows (132/64bit) - Ultimate, Business Edition Microsoft Windows - (132/64bit) - Ultimate, Business Edition Microsoft Windows - (132/64bit) - Ultimate, Business Edition Microsoft Windows - (132/64bit) - Ultimate, Business Edition
Power requirements Power consumption Operating temperature Storage temperature System requirements Operating system Processor	Approx. 25W -5 to +50 °C (23 to 122°F) 0 to 50 °C (23 to 122°F) -20 to +60 °C (-4 to +140°F) Microsoft Windows XP(32bit) - Professional Edition Microsoft Windows Vista(32bit) - Utimate, Business Edition Microsoft Windows 7 (32/64bit) - Utimate, Professional Edition Intel Core2 Duo 2 GHz or higher 1 GB or more
Power requirements Power consumption Operating temperature Starting temperature Storage temperature System requirements Operating system Processor Memory	Approx. 25W -5 to +50 °C (23 to 122°F) 0 to 50 °C (32 to 122°F) -20 to +60 °C (-4 to +140°F) Microsoft Windows XP(32bit) - Professional Edition Microsoft Windows Vista(32bit) - Ultimate, Business Edition Microsoft Windows 7 (32/64bit) - Ultimate, Professional Edition Microsoft Windows 7 (32/64bit) - Ultimate, Professional Edition Intel Core2 Duo 2 GHz or higher 1 GB or more Microsoft Internet Explorer Ver. 6.0, Ver. 7.0, Ver. 8.0
Power requirements Power consumption Operating temperature Starting temperature Storage temperature System requirements Operating system Processor Memory	Approx. 25W -5 to +50 °C (23 to 122°F) 0 to 50 °C (32 to 122°F) -20 to +60 °C (-4 to +140°F) Microsoft Windows XP(32bit) - Professional Edition Microsoft Windows Vista(32bit) - Ultimate, Business Edition Microsoft Windows 7 (32/64bit) - Ultimate, Professional Editio Intel Core2 Duo 2 GHz or higher 1 GB or more Microsoft Internet Explorer Ver. 6.0, Ver. 7.0, Ver. 8.0 Firefox Ver.3.5 (Plug-in free viewer only)
Power requirements Power consumption Operating temperature Starting temperature Storage temperature System requirements Operating system Processor Memory	Approx. 25W -5 to +50 °C (23 to 122°F) 0 to 50 °C (23 to 122°F) -20 to +60 °C (24 to +140°F) Microsoft Windows XP(32bit) - Professional Edition Microsoft Windows 7 (32/64bit) - Ultimate, Business Edition Micros
Power requirements Power consumption Operating temperature Starting temperature Storage temperature System requirements Operating system Processor Memory Web browser	Approx. 25W -5 to +50 °C (23 to 122°F) 0 to 50 °C (32 to 122°F) -20 to +60 °C (-4 to +140°F) Microsoft Windows XP(32bit) - Professional Edition Microsoft Windows Vista(32bit) - Ultimate, Business Edition Microsoft Windows 7 (32/64bit) - Ultimate, Professional Editio Intel Core2 Duo 2 GHz or higher 1 GB or more Microsoft Internet Explorer Ver. 6.0, Ver. 7.0, Ver. 8.0 Firefox Ver.3.5 (Plug-in free viewer only)
Power requirements Power consumption Operating temperature Starting temperature Storage temperature System requirements Operating system Processor Memory Web browser	Approx. 25W -5 to +50 °C (23 to 122°F) 0 to 50 °C (32 to 122°F) -20 to +60 °C (4 to +140°F) Microsoft Windows XP(32bit) - Ptofessional Edition Microsoft Windows 7 (32/64bit) - Ultimate, Business Edition Microso
Power requirements Power consumption Operating temperature Starting temperature Storage temperature System requirements Operating system	Approx. 25W -5 to +50 °C (23 to 122°F) 0 to 50 °C (32 to 122°F) -20 to +60 °C (4 to +140°F) Microsoft Windows XP(32bit) - Ptofessional Edition Microsoft Windows 7 (32/64bit) - Ultimate, Business Edition Microso
Power requirements Power consumption Operating temperature Starting temperature Storage temperature System requirements Operating system Processor Memory Web browser	Approx. 25W -5 to +50 °C (23 to 122°F) 0 to 50 °C (32 to 122°F) -20 to +60 °C (4 to +140°F) Microsoft Windows XP(32bit) - Professional Edition Microsoft Windows 7 (32/64bit) - Uttimate, Business Edition Microsoft Windows 7 (32/64bit) - Uttimate, Professional Edition Microsoft Internet Explorer Ver. 6.0, Ver. 7.0, Ver. 8.0 Filefox 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)

### 24V AC Connector, I/O Connector

The SNC-ER550 includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/).

### VIDEO SECURITY

IP RAPID DOME OR PTZ CAMERAS

## SNC-ER580

High-Quality 1080p HD Rapid Dome Camera. Excellent 1080p HD picture quality, supporting 30 fps at H.264 (1920 x 1080 maximum resolution). The "Exmor" CMOS sensor incorporated to realize high image quality and low noise. High-speed 360 degrees endless rotation. Powerful 20x optical zoom capability.

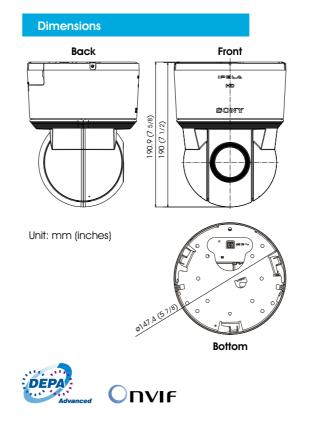
### Key Features and Benefits

### High-Speed 360 degrees endless rotation

- Above-the-horizon tilt. 15°tilt-up, total tilt range of 210°
- H264 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
- Recording software (RealShot Manager Lite) is bundled to start recording and monitoring instantly
- DEPA Advanced analytics. Advanced, powerful intelligent video analytics deliver enhanced system performance

### Standard Features and Benefits

- Excellent 1080p HD picture quality at 30fps
- 20x optical and total zoom ratio of 240x with 12x digital zoom
- Wide-D technology to handle various lighting conditions in a scene
- Powered by hPoE for simple installation
- SD memory card slot for an on-board recording capability
- ONVIF (Open Network Video Interface Forum) Version 1.02
   conformance





### IFSEC2011 SECURITY INDUSTRY AWARDS FINALIST

### **Specifications**

Camera	
Image device	1/2.8-type Exmor CMOS
Number of effective pixels	Approx. 3.27 Megapixel
Minimum Illumination	Colour: 1.7lx (F1.6, shutter 1/30sec, AGC ON, 50IRE[IP]) B/W: 0.07lx (F1.6, shutter 1/30sec, AGC ON, Night Mode, 50IRE[IP]
Electronic shutter speed	1/1 to 1/10,000 s
Gain control	Auto/Manual (-3 to 28 dB)
Exposure control	Full auto, Shutter priority, Iris priority, Manual
White balance mode	Auto, ATW, Indoor, Outdoor, One-push, Manual, Sodium
	vapour lamp
Lens type	Auto-focus Zoom Lens
Zoom ratio	Optical zoom 20x, Digital zoom 12x, Total zoom 240x
Horizontal viewing angle	55.4 to 2.9 degrees
Focal length	f=4.7 to 94.0 mm F1.6 to F3.5
F-number Minimum object distance	10mm (wide) to 800mm (tele)
Pan angle	360 degrees endless rotation
Pan Speed	300 degrees/s (max)
Tilt angle	210 degrees (with e-flip)
Tilt speed	300 degrees/s (max)
Preset position	256 positions
Tour	5
Camera Features	
Day/Night	Yes
Wide-D	Yes*1
Noise Reduction	Yes
Image	
Codec image size (H x V)	1920×1080, 1680×1056, 1280×1024, 1440×912, 1280×960, 1376×768, 1280×800, 1280×720, 1024×768, 1024×576, 800×600, 800×480, 768×576, 720×576, 704×576, 720×480, 640×480, 640×368, 384×288, 320×240, 320×192
Video compression format	H.264, MPEG-4, JPEG
Codec streaming capability	Dual streaming
Maximum frame rate	30 fps (H.264)
Audio	
Audio compression	G.711/G.726
Scene Analytics	
Intelligent motion detection	Yes
Network	
D. J. J. J.	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client/
Protocols	server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2)
ONVIF conformance	Yes (Ver. 1.02)
Number of clients	5
Authentication	IEEE802.1X
Interface	
Ethernet	10BASE-T / 100BASE-TX (RJ-45)
Card slots	SD memory card x 1 (Compatible with the SD/SDHC standards)
Sensor input	x2
Alarm output	xl
External microphone input	Mini-jack (monaural)
Audio line output	Mini-jack (monaural), Max output level: 1 Vrms
General	
Mass	1.7 kg (3 lb 12 oz) (including sealing bracket)
Dimensions (ø x H mm)	ø147.4 x 190.9 mm (5 7/8 x 7 5/8 inches)
Power requirements	HPoE (IEEE802.3at compliant), AC24V
Power consumption	Approx. 25W
Operating temperature	-5 to +50 °C (23 to 122°F)
Starting temperature Storage temperature	0 to 50 °C (32 to 122°F) -20 to +60 °C (-4 to +140°F)
System requirements	
Operating system	Microsoft Windows XP(32bit) - Professional Edition Microsoft Windows Vista(32bit) - Ultimate, Business Edition Microsoft Windows 7 (32/64bit) - Ultimate, Professional Edition
Processor	Intel Core2 Duo 2 GHz or higher
Memory Web browser	1 GB or more 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)
Supplied Accessories	Google Chrome Ver.4.0 (Plug-in free viewer only)
	CD-ROM (User's guide, supplied programs), Installation manual, Ceiling bracket, Screws(2), Template, 24V AC Connector, I/O Connector

\*1 When using Wide-D technology, the maximum frame rate will be 15(ps. \*The SNC-ER580 includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssi.org/). IP RAPID DOME OR PTZ CAMER

## SNC-RH124

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



**Specifications** 

### Key Features and Benefits

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

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

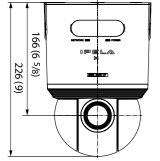
VE Visibility Enhancer. Enhanced wide dynamic range improves performance in challenging lighting conditions

**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





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)
-	Auto, Full auto, Shutter-priority, Iris-priority, Manual,
Exposure control	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 (QVG 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	10 (200 x 720)
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, I 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	x2
	Mini-jack (Monaural), MIC IN/LINE IN: 2.2k ohm,
External microphone input	2.45VDC plug-in power
Audio line output	Mini-jack (Monaural), Max output level: 1 Vrms
Analogue video output	
Signal system	PAL
signal system S/N ratio	More than 50 dB
	1.9 (50IRE, AGC ON)
Sensitivity colour	
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	
	Wind
	Windows XP/Vista®
Operating system	
Operating system System requirements	
	higher, RAM: 1GB or more
System requirements Web browser	
System requirements	Microsoft Internet Explorer Ver6.0 or higher
System requirements Web browser	higher, RAM: 1GB or more

### VIDEO SECURITY

IP RAPID DOME OR PTZ CAMERAS

## SNC-RH164

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

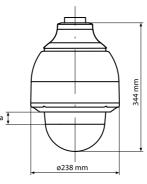
### Key Features and Benefits

- **HD HD video at 30 fps.** Superior High Definition image quality with real time capture
- **XDNR noise reduction technology.** Noise and Ghost free images with superior sensitivity in lowlight conditions
- 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







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 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 (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	78 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, Installation manual, CD-ROM
	(User's guide, SNC toolbox), Wire rope

IP RAPID DOME OR PTZ CAMER

## SNC-RS44P

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



**Specifications** 

### Key Features and Benefits

1/4" CCD with Exwave HAD" technology. Superior image quality with extended infra red response

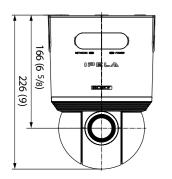
**XDNR Noise reduction technology.** Noise and Ghost free images with superior sensitivity in lowlight conditions

- **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





H.264, MPEG-4, JPEG H264/MPEG-4/JPEG, 25 fps (720 x 576) G.711/G.726 No Yes (with built-in Post Filter) No CP/IP, ARP, ICMP, HTTP, FTP (client/server), SMTP, DHCP, NTP, RTP/RTCP, SMMP (MIB-2) Yes (Optional card) 10 IEEE802.1X 10BASE-T/100BASE-TX (RJ-45)
Yes           Yes           (H x V) 440,000           1/2 to 1/10,000s           Auto/Manual (-3dB to +28dB)           Auto, Full auto, Shutter-priority, lis-priority, Manual, EV compensation, Backlight compensation           Auto, Indoor, Outdoor, One-push WB, ATW, Manual           Auto-facus zoom lens           18x           2.8 to 48 degrees           f=4.1 to 73.8mm           F1.4 (wide), F3.0 (tele)           360 degrees endless rotation           400 degreess (max.)           210 degrees (with e-flip)           400 degrees/s (max.)           210 degrees (with e-flip)           400 degrees/s (max.)           210 degrees/s (max.)           210 degrees/s (max.)           6.711/G.726           G.711/G.726           No           Yes (with built-in Post Filter)           No           Yes (coptional card)           10           IEEE802.1X           100ABASE-T/100BASE-TX (RJ-45)
Yes           (H × V) 440,000           1/2 to 1/10,000s           Auto/Manual (-3dB to +28dB)           Auto, Full auto, Shutter-priority, inspirity, Manual, EV compensation, Backlight compensation           Auto, Indoor, Outdoor, One-push WB, ATW, Manual           Auto-focus zoom lens           18x           2.8 to 48 degrees           f=4.1 to 73.8mm           F1.4 (wide), F3.0 (tele)           360 degrees (max.)           210 degrees (with e-filp)           400 degrees/s (max.)           210 degrees (with e-filp)           400 degrees/s (max.)           (v) 720 x 576, 640 x 480 (VGA), 384 x 288, 320 x 240 (e           H.264, MPEG-4, JPEG           H264/MPEG-4/JPEG, 25 fps (720 x 576)           G.711/G.726           CP/IP, ARP, ICMP, HTTP, FTP (client/server), SMTP, DHCP, NTP, RTP/RTCP, SNMP (MIB-2)           Yes (Optional card)           10           IEEE802.1X           10BASE-T/100BASE-TX (RJ-45)
(H x V) 440,000 1/2 to 1/10,000s Auto/Manual (-3dB to +28dB) Auto, Full auto, Shutter-priority, Iris-priority, Manual, EV compensation, Backlight compensation Auto, Indoor, Outdoor, One-push WB, ATW, Manual Auto-focus zoom lens 18x 2.8 to 48 degrees f = 4.1 to 73.8mm F1.4 (wide), F3.0 (tele) 360 degrees endless rotation 400 degrees/s (max.) 210 degrees/s (max.) 210 degrees/s (max.) (V) 720 x 576, 640 x 480 (VGA), 384 x 288, 320 x 240 (e H.264, MPEG-4, JPEG H264/MPEG-4/JPEG, 25 fps (720 x 576) G.711/G.726 No Yes (with built-in Post Filter) No 2P/IP, ARP, ICMP, HTTP, FTP (client/server), SMTP, DHCP, I NTP, RTP/RTCP, SNMP (MIB-2) Yes (Optional card) 10 IEEE802.1X 10BASE-T/100BASE-TX (RJ-45)
1/2 to 1/10,000s Auto/Manual (-3dB to +28dB) Auto, Full auto, Shutter-priority, Iris-priority, Manual, EV compensation, Backlight compensation Auto, Indoor, Outdoor, One-push WB, ATW, Manual Auto-focus zoom lens 18x 2.8 to 48 degrees f = 4.1 to 73.8mm F1.4 (wide), F3.0 (tele) 360 degrees endless rotation 400 degrees (max.) 210 degrees (with e-flip) 400 degrees/s (max.) 210 degrees/s (max.) (V) 720 x 576, 640 x 480 (VGA), 384 x 288, 320 x 240 (e H.264, MPEG-4, JPEG H264/MPEG-4/JPEG, 25 fps (720 x 576) G.711/G.726 No Yes (with built-in Post Filter) No 2P/IP, ARP, ICMP, HTTP, FTP (client/server), SMTP, DHCP, I NTP, RTP/RTCP, SNMP (MIB-2) Yes (Optional card) 10 IEEE802.1X 10BASE-T/100BASE-TX (RJ-45)
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EV compensation, Backlight compensation Auto, Indoor, Outdoor, One-push WB, ATW, Manual Auto-focus zoom lens 18x 2.8 to 48 degrees f = 4.1 to 73.8mm F1.4 (wide), F3.0 (tele) 360 degrees endless rotation 400 degrees/s (max.) 210 degrees/s (max.) 210 degrees/s (max.) 210 degrees/s (max.) 400 degrees/s (max.) 400 degrees/s (max.) 400 degrees/s (max.) 400 degrees/s (max.) 400 degrees/s (max.) 6,711/G.726 CF/IP, ARP, ICMP, HTTP, FTP (client/server), SMTP, DHCP, NTP, RTP/RTCP, SNMP (MIB-2) Yes (Optional card) 10 IEEE802.1X 10BASE-T/100BASE-TX (RJ-45)
Auto, Indoor, Outdoor, One-push WB, ATW, Manual Auto-focus zoom lens 18x 2.8 to 48 degrees f = 4.1 to 73.8mm F1.4 (wide), F3.0 (tele) 360 degrees endless rotation 400 degrees (max.) 210 degrees (with e-flip) 400 degrees (with e-flip) 400 degrees/s (max.) 210 degrees/s (max.) 210 degrees/s (max.) 400 degrees/s (max.) 6, 710 x 576, 640 x 480 (VGA), 384 x 288, 320 x 240 (e H.264, MPEG-4, JPEG H264/MPEG-4, JPEG H264/MPEG-4, JPEG G.711/G.726 No Yes (with built-in Post Filter) No 2P/IP, ARP, ICMP, HTTP, FTP (client/server), SMTP, DHCP, NTP, RTP/RTCP, SNMP (MIB-2) Yes (Optional card) 10 IEEE802.1X 10BASE-T/100BASE-TX (RJ-45)
Auto-focus zoom lens 18x 2.8 to 48 degrees f =4.1 to 73.8mm F1.4 (wide), F3.0 (tele) 360 degrees endless rotation 400 degrees/s (max.) 210 degrees/s (max.) 210 degrees/s (max.) (V) 720 x 576, 640 x 480 (VGA), 384 x 288, 320 x 240 (c H.264, MPEG-4, JPEG H264/MPEG-4/JPEG, 25 fps (720 x 576) G.711/G.726 No Yes (with built-in Post Filter) No CP/IP, ARP, ICMP, HTTP, FTP (client/server), SMTP, DHCP, NTP, RTP/RTCP, SNMP (MIB-2) Yes (Optional card) 10 IEEE802.1X 10BASE-T/100BASE-TX (RJ-45)
18x           2.8 to 48 degrees           f=4.1 to 73.8mm           F1.4 (wide), F3.0 (tele)           360 degrees endless rotation           400 degreess (max.)           210 degrees(with e-flip)           400 degrees/s (max.)           210 degrees/s (max.)           400 degrees/s (max.)           6.711/G.726           6.711/G.726           No           Yes (with built-in Post Filter)           No           Yes (optional card)           10           IEEE802.1X           10BASE-1/100BASE-TX (RJ-45)
2.8 to 48 degrees f=4.1 to 73.8mm F1.4 (wide), F3.0 (tele) 360 degrees endless rotation 400 degrees/s (max.) 210 degrees/s (max.) 210 degrees/s (max.) 400 degrees/s (max
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F1.4 (wide), F3.0 (tele) 360 degrees endless rotation 400 degrees (max.) 210 degrees (with e-flip) 400 degrees (max.) (V) 720 x 576, 640 x 480 (VGA), 384 x 288, 320 x 240 (e H.264, MPEG-4, JPEG H264/MPEG-4/JPEG, 25 fps (720 x 576) G.711/G.726 No Yes (with built-in Post Filter) No Yes (with built-in Post Filter) No CP/IP, ARP, ICMP, HTTP, FTP (client/server), SMTP, DHCP, NTP, RTP/RTCP, SNMP (MIE-2) Yes (Optional card) 10 IEEE802.1X 10BASE-T/100BASE-TX (RJ-45)
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<ul> <li>(V) 720 x 576, 640 x 480 (VGA), 384 x 288, 320 x 240 (GH: 264, MPEG-4, JPEG</li> <li>H264/MPEG-4/JPEG, 25 fps (720 x 576)</li> <li>G. 711/G. 726</li> <li>G. 711/G. 726</li> <li>Yes (with built-in Post Filter)</li> <li>No</li> <li>Yes (with built-in Post Filter)</li> <li>No</li> <li>CP/IP, ARP, ICMP, HTTP, FTP (client/server), SMTP, DHCP, NTP, RTP/RTCP, SNMP (MIB-2)</li> <li>Yes (Optional card)</li> <li>10</li> <li>IEEE802.1X</li> <li>10BASE-T/100BASE-TX (RJ-45)</li> </ul>
H.264, MPEG-4, JPEG H264/MPEG-4/JPEG, 25 fps (720 x 576) G.711/G.726 No Yes (with built-in Post Filter) No CP/IP, ARP, ICMP, HTTP, FTP (client/server), SMTP, DHCP, NTP, RTP/RTCP, SMMP (MIB-2) Yes (Optional card) 10 IEEE802.1X 10BASE-T/100BASE-TX (RJ-45)
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IEEE802.1X 10BASE-T/100BASE-TX (RJ-45)
10BASE-T/100BASE-TX (RJ-45)
RS-232C/RS-422 (PELCO D protocol)
CF card x1
Composite video (1Vp-p)
x 4
x 2
Mini-jack (Monaural), MIC IN/LINE IN: 2.2k ohm,
2.45VDC plug-in power
Mini-jack (Monaural), Max output level: 1 Vrms
PAL
530 TV lines
More than 50 dB
0.4 (50IRE, AGC ON)
0.08 (50IRE, AGC ON)
Approx 21 kg (4 k 10 cz)
Approx. 2.1 kg (4 lb 10 oz)
(Ø x H) 154 x 226 mm (6 1/8 x 9 inches)
hPoE, AC24V, DC12V
25 W max.
0 to 50 °C
-20 to 60 °C
Windows XP/Vista®
Windows XP/Vista® CPU: Intel® Pentium® IV 3GHz, Intel® Core <sup>®</sup> 2 Duo 2GHz biobar, PAM: 1GB or more
CPU: Intel® Pentium® IV 3GHz, Intel® Core <sup></sup> 2 Duo 2GHz higher, RAM: 1GB or more
CPU: Intel® Pentium® IV 3GHz, Intel® Core~2 Duo 2GHz
CPU: Intel® Pentium® IV 3GHz, Intel® Core~2 Duo 2GHz higher, RAM: 1GB or more

### VIDEO SECURITY

IP RAPID DOME OR PTZ CAMERAS

## SNC-RS46P

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

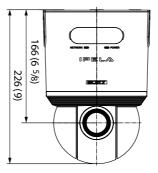
### Key Features and Benefits

- 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
- 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







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	
	TCP/IP, ARP, ICMP, HTTP, FTP (client/server), SMTP, DHCP, DNS,
Protocols	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
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	2010/00/0
Operating system	Windows VDA fata®
System requirements	Windows XP/Vista®           CPU: Intel® Pentium® IV 3GHz, Intel® Core~2 Duo 2GHz or
Web browser	higher, RAM: 1GB or more
Supplied Accessories	Microsoft Internet Explorer Ver6.0 or higher
	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

IP RAPID DOME OR PTZ CAMER

## SNC-RS84P

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



**Specifications** 

### Key Features and Benefits

1/4" CCD with Exwave HAD" technology. Superior image quality with extended infra red response

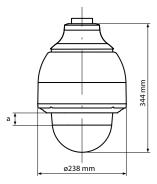
**XDNR noise reduction technology**. Noise and Ghost free images with superior sensitivity in lowlight conditions

- 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**





### 1/4-type CCD with Exwave HAD technology Image device Day/Night Wide-D Yes Number of effective pixels (H x V) 440 000 Electronic shutter speed 1 to 1/10.000s Auto/Manual (-3 to +28dB) Auto, Full auto, Shutter-priority, Iris-priority, Manual, Auto gain control Exposure control EV compensation, Backlight compensation White balance mode Auto, Indoor, Outdoor, One-push WB, ATW, Manual Lens type Auto-focus zoom lens Zoom ratio 18x 2.8 to 48 degrees Horizontal viewing angle f=4.1 to 73.8mm Focal length 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 H x V) 720 x 576, 640 x 480 (VGA), 384 x 288, 320 x 240 (QVGA) Codec image size Video compression format H.264, MPEG-4, JPEG Maximum frame rate H264/MPEG-4/JPEG, 25 fps (720 x 576) G.711/G.726 Scene Analytics Simple activity detection ntelligent motion detection Yes (with built-in Post Filter) telligent object detection No etwork P/IP, ARP, ICMP, HTTP, FTP (client/server), SMTP, DHCP, DNS, rotocols NTP, RTP/RTCP, SNMP (MIB-2) /ireless network Yes (Optional card) Number of clients 10 Authentication IFFF802.1X erface 10BASE-T/100BASE-TX (RJ-45) erial 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 Mini-jack (Monaural), MIC IN/LINE IN: 2.2k ohm, External microphone input 2.45VDC plug-in power Mini-jack (Monaural), Max output level: 1 Vrms Audio line output Analogue video out ianal system 530 TV lines Horizontal resolution S/N ratio More than 50 dB Sensitivity colour 0.4 (50IRF, AGC ON) ensitivity monochron 0.09 (50IRE, AGC ON) General /eight Approx. 4.5 kg (9 lb 15 oz Dimensions (ø x H) 238 x 346 mm (9 3/8 x 15 5/8 inches) ower requirements AC24V ower consumption 80 W max. Operating temperature -40 to 50 °C orage temperature -20 to 60 °C tem reauir Windows XP/Visto Operating syste CPU: Intel® Pentium® IV 3GHz, Intel® Core<sup>®</sup> 2 Duo 2GHz or ystem requirements higher, RAM: 1GB or more Web browser Microsoft Internet Explorer Ver6.0 or higher Supplied Access ise 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

VIDEO SECURITY

IP RAPID DOME OR PTZ CAMERAS

## 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

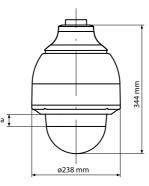






Image device         1/4-type CCD with Exwave HAD technology           Day/Night         Yes           Wide-D         Yes           Number of effective pixels         (H x V) 440,000           Electronic shutter speed         1 to 1/10,000s           Auto gain control         Auto, Full auto, Shutter-priority, Iris-priority, Manual (-3dB to + 28dB)           Exposure control         EV compensation, Backlight compensation           White balance mode         Auto, Indoor, Outdoor, One-push WB, ATW, Manual (-3dB to + 28dB)           Zoom ratio         36x           Horizontal viewing angle         2.8 to 48.0 degrees           Focal length         f=3.4 to 122.4 mm           F-number         F1.4 (wide), F3.0 (tele)           Pan angle         360 degrees (max.)           Till angle         210 degrees/s (max.)           Till speed         400 degrees/s (max.)           Image         210 degrees/s (max.)           Image         210 degrees/s (max.)           Image         200 degrees/s (max.)           Image         210 degrees/s (max.) <th></th>	
Wide-D     Yes       Number of effective pixels     (H x V) 440,000       Electronic shutter speed     1 to 1/10,000s       Auto gain control     Auto, Full auto, Shutter-priority, Itis-priority, Itis-p	
Number of effective pixels         (H x V) 440,000           Electronic shutter speed         1 to 1/10,000s           Auto gain control         Auto/Manual (-3d8 to + 28d8)           Exposure control         Auto, Induor, Outdoor, One-push WB, ATW, Manual EV compensation, Backlight compensation           White balance mode         Auto, Indoor, Outdoor, One-push WB, ATW, Manual EV compensation, Backlight compensation           Lens type         Auto-focus zoom lens           Zoom ratio         36x           Hoizontal viewing angle         2.8 to 48.0 degrees           Focal length         f=3.4 to 122.4 mm           F-number         F1.4 (wide), F3.0 (tele)           Pan angle         360 degrees indices rotation           Pan speed         400 degrees/s (max.)           Tilt angle         210 degrees/s (max.)           Tilt apgle         210 degrees/s (max.)           Tilt apgle         210 degrees/s (max.)           Madio compression format         H.264, MPEG-4, JPEG           Maximum frame rate         H264/MPEG-4, JPEG           Audio compression format         F1.61, S1.0 (with built-in Post Filter)           Intelligent motion detection         No           Intelligent motion detection         No           Network         Yeg (Optional card)           Number o	
Electronic shutter speed       1 to 1/10,000s         Auto gain control       Auto, Kull auto, Shutter-priority, Iris-priority, Manual         Exposure control       Auto, Full auto, Shutter-priority, Iris-priority, Manual         Exposure control       Auto, Indoor, Outdoor, One-push WB, ATW, Manual         Unite 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=3.4 to 122.4 mm         F-number       F1.4 (wide), F3.0 (tele)         Pan angle       360 degrees (max.)         Tilt angle       210 degrees/s (max.)         Tilt angle       210 degrees/s (max.)         Tilt angle       210 degrees/s (max.)         Image       200 cegrees/s (max.)         Codec image size       (H x V) 720 x 576, 640 x 480 (VGA), 384 x 288, 320 x 240         Video compression format       H.264, MPEG-4, JPEG         Maximum frame rate       H264/MPEG-4/JPEG, 25 fps (720 x 576)         Audio       Simple activity detection         No       Intelligent object detection         No       No         Intelligent motion detection       Nine, IP/RTCP, SMMP (MIB-2)         Wirele	
Auto gain control     Auto, Vill auto, Shuffer-priority, Iris-priority, Manual EV compensation, Backlight compensation       White balance mode     Auto, Indoor, Outdoor, One-push WB, ATW, Manual EV compensation, Backlight compensation       White balance mode     Auto, Indoor, Outdoor, One-push WB, ATW, Manual EV compensation, Backlight compensation       White balance mode     Auto, Indoor, Outdoor, One-push WB, ATW, Manual EV compensation, Backlight compensation       Zoom ratio     36x       Horizontal viewing angle     2.8 to 48.0 degrees       Focal length     f=3.4 to 122.4 mm       F-number     F1.4 (wide), F3.0 (tele)       Pan angle     360 degrees endless rotation       Pan angle     210 degrees (max.)       Tilt apped     400 degrees/s (max.)       Maximum frame rate     H264/MPEG-4.JPEG       Maximum frame rate     H264/MPEG-4.JPEG       Audio compression format     G.711/G.726       Scene Analytics     TCP/IP, ARP, ICMP, HTP, FTP (client/server), SMTP, DHCP       Nitelligent object detection     No       Intelligent motion detection     No	
Auto, Full auto, Shutter-priority, Iris-priority, Manual Exposure control           Exposure control         Auto, Full auto, Shutter-priority, Iris-priority, Manual EV compensation, Backlight compensation Auto-focus zoom lens           Zoom ratio         36x           Horizontal viewing angle         2.8 to 48.0 degrees           Focal length         f=3.4 to 122.4 mm           F-number         F1.4 (wide), F3.0 (tele)           Pan angle         360 degrees radies rotation           Pan speed         400 degrees/s (max.)           Tilt angle         210 degrees/s (max.)           Tilt speed         400 degrees/s (max.)           Image         200 degrees/s (max.)           Codec image size         (H x V) 720 x 576, 640 x 480 (VGA), 384 x 288, 320 x 240           Video compression format         H.264, MPEG-4, JPEG           Maximum frame rate         H264/MPEG-4/JPEG, 25 fps (720 x 576)           Audio         Generopession           Scene Analytics         Stimple activity detection           Simple activity detection         No           Intelligent motion detection         No           Intelligent object detection         No           Network         Yes (Optional card)           Number of clients         10           Authentication         IEEE802.1X     <	
Exposule control         EV compensation, Backlight compensation           White balance mode         Auto, Indoor, Outdoor, One-push WB, ATW, Manue           Lens type         Auto-focus zoom lens           Zoom ratio         36x           Horizontal viewing angle         2.8 to 48.0 degrees           Focal length         f=3.4 to 122.4 mm           F-number         F1.4 (wide), F3.0 (tele)           Pan angle         360 degrees encless rotation           Pan angle         210 degrees/s (max.)           Tilt angle         210 degrees/s (max.)           Tilt angle         210 degrees/s (max.)           Itt angle         400 degrees/s (max.)           Itt angle         210 degrees/s (max.)           Intege         400 degrees/s (max.)           Code cimage size         (H x V) 720 x 576, 640 x 480 (VGA), 384 x 288, 320 x 240           Video compression format         H264,MPEG-4, JPEG           Maximum frame rate         H264/MPEG-4, JPEG, 25 (ps (720 x 576)           Audio compression         G.711/G.726           Scene Analytics         Intelligent motion detection           No         No           Intelligent motion detection         No           Network         Yes (with built-in Post Filter)           Intelligent motion detectio	
EV compensation, Backlight compensation, White balance mode         Auto, Indoor, Outdoor, One-push WB, ATW, Manual Lens type           Lens type         Auto-focus zoom lens           Zoom ratio         36x           Horizontal viewing angle         2.8 to 48.0 degrees           Focal length         f=3.4 to 122.4 mm           F-number         F1.4 (wide), F3.0 (tele)           Pan angle         360 degrees endies rotation           Pan speed         400 degrees/s (max.)           Tilt angle         210 degrees/s (max.)           Tilt speed         400 degrees/s (max.)           Intege         200 degrees/s (max.)           Codec image size         (H x V) 720 x 576, 640 x 480 (VGA), 384 x 288, 320 x 240           Video compression format         H.264, MPEG-4, JPEG           Maximum frame rate         H264/MPEG-4/JPEG, 25 fps (720 x 576)           Audio         Generation           Audio compression         G.711/G.726           Scene Analytics         Simple activity detection           Intelligent object detection         No           Intelligent object detection         No           Network         Yes (Optional card)           Number of clients         10           Authentication         IEEE802.1 X           Intelligent object	
Lens type     Auto-focus zoom lens       Zoom ratio     36x       Horizontal viewing angle     2.8 to 48.0 degrees       Focal length     f=3.4 to 122.4 mm       F-number     F1.4 (wide), F3.0 (tele)       Pan angle     360 degrees endless rotation       Pan speed     400 degrees/s (max.)       Tilt angle     210 degrees/s (max.)       Tilt angle     210 degrees/s (max.)       Tilt angle     210 degrees/s (max.)       Tilt angle     400 degrees/s (max.)       Tilt angle     210 degrees/s (max.)       Tilt angle     (H x V) 720 x 576, 640 x 480 (VGA), 384 x 288, 320 x 240       Video compression format     H.264, MPEG-4, JPEG       Maximum frame rate     H264/MPEG-4/JPEG, 25 fps (720 x 576)       Audio compression format     H.264, MPEG-4, JPEG       Audio compression     G.711/G.726       Scene Analylics     State and the complexity detection       Intelligent motion detection     No       Intelligent object detection     No       Network     Ves (Optional card)       Number of clients     10       Authentication     IEEE802.1X       Intelligent tobject detection     Res (Optional card)       Number of clients     10       Authentication     IEEE802.1X       Interface     10	
Zoom ratio     36x       Horizontal viewing angle     2.8 to 48.0 degrees       Focal length     f=3.4 to 122.4 mm       F-number     F1.4 (wide), F3.0 (tele)       Pan angle     360 degrees endless rotation       Pan angle     200 degrees/s (max.)       Tilt angle     210 degrees/s (max.)       Tilt angle     210 degrees/s (max.)       Intege     400 degrees/s (max.)       Codec image size     (H × V) 720 x 576, 640 x 480 (VGA), 384 x 288, 320 x 240       Video compression format     H264/MPEG-4/JPEG, 25 tps (720 x 576)       Audio     400       Audio compression     G.711/G.726       Scene Analytics     5000000000000000000000000000000000000	QVGA)
Horizontal viewing angle         2.8 to 48.0 degrees           Focal length         f=3.4 to 122.4 mm           F-number         F1.4 (wide), F3.0 (tele)           Pan angle         360 degrees endless rotation           Pan speed         400 degrees/s (max.)           Tilt angle         210 degrees/s (max.)           Tilt speed         400 degrees/s (max.)           Image         200 degrees/s (max.)           Codec image size         (H × V) 720 × 576, 640 × 480 (VGA), 384 × 288, 320 × 240           Video compression format         H.264, MPEG-4, JPEG           Maximum frame rate         H264/MPEG-4/JPEG, 25 fps (720 × 576)           Audio         G.711/G.726           Scene Analytics         Stroppe activity detection           Simple activity detection         No           Intelligent motion detection         Yes (with built-in Post Filter)           Intelligent detection         No           Network         Yes (Optional card)           Wireless network         Yes (Optional card)           Number of clients         10           Authentication         IEEE802.1X           Interface         108ASE-T/100BASE-TX (RJ-45)           Serial interface         CARS-C/RS-422 (FELCO D protocol)           Card slots         CF card	QVGA)
Focal length       f=3.4 to 122.4 mm         F-number       F1.4 (wide), F3.0 (tele)         Pan angle       360 degrees endless rotation         Pan speed       400 degrees/s (max.)         Tilt angle       210 degrees/s (max.)         Itt speed       400 degrees/s (max.)         Inage       210 degrees/s (max.)         Inage       200 degrees/s (max.)         Inage       200 degrees/s (max.)         Inage       200 degrees/s (max.)         Image       200 degrees/s (max.)         Image       200 degrees/s (max.)         Maximum frame rate       H264/MPEG-4/JPEG, 25 tps (720 x 576)         Audio       6.711/G.726         Scene Analytics       Simple activity detection         Simple activity detection       No         Intelligent motion detection       Yes (with built-in Post Filter)         Intelligent motion detection       No         Network       Yes (Optional card)         Number of clients       10         Authentication       IEEE802.1X         Interface       108ASE-T/100BASE-TX (RJ-45)         Ethernet       10BASE-T/100BASE-TX (RJ-45)         Serial interface       RS-322C/RS-422 (PELCO D protocol)         Card slots       CF card x1 <td>QVGA)</td>	QVGA)
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       210 degrees/s (max.)         Itt speed       400 degrees/s (max.)         Image       Codec image size         Codec image size       (H x V) 720 x 576, 640 x 480 (VGA), 384 x 288, 320 x 240         Video compression format       H.264, MPEG-4, JPEG         Maximum frame rate       H264/MPEG-4/JPEG, 25 fps (720 x 576)         Audio       Audio         Audio compression       G.711/G.726         Scene Analytics       Simple activity detection         Simple activity detection       No         Intelligent notion detection       Yes (with built-in Post Filter)         Intelligent motion detection       No         Network       Yes (Optional card)         Wireless network       Yes (Optional card)         Number of clients       10         Authentication       IEEE802.1X         Interface       10BASE-T/100BASE-TX (RJ-45)         Ethernet       10BASE-T/100BASE-TX (RJ-45)         Serial intefrace       RS-232C/RS-422 (PELCO D protocol)<	QVGA)
Pan angle     360 degrees endies rotation       Pan speed     400 degrees/s (max.)       Tilt angle     210 degrees/s (max.)       Tilt speed     400 degrees/s (max.)       Image     400 degrees/s (max.)       Codec image size     (H x V) 720 x 576, 640 x 480 (VGA), 384 x 288, 320 x 240       Video compression format     H.264, MPEG-4, JPEG       Maximum frame rate     H264/MPEG-4/JPEG, 25 fps (720 x 576)       Audio     Audio compression       Audio compression     G.711/G.726       Scene Analytics     Simple activity detection       Simple activity detection     No       Intelligent motion detection     Yes (with built-in Post Filter)       Intelligent motion detection     No       Network     Yes (Optional card)       Wireless network     Yes (Optional card)       Number of clients     10       Authentication     IEEE802.1X       Interface     10BASE-T/100BASE-TX (RJ-45)       Ethernet     10BASE-T/100BASE-TX (RJ-45)       Serial interface     RS-232C/RS-422 (PELCO D protocol)       Card slots     CF card x1	QVGA)
Pan speed     400 degrees/s (max.)       Tilt angle     210 degrees (with e-flip)       Tilt speed     400 degrees/s (max.)       Image     200 degrees/s (max.)       Codec image size     (H x V) 720 x 576, 640 x 480 (VGA), 384 x 288, 320 x 240       Video compression format     H.264, MPEG-4, JPEG       Maximum frame rate     H264/MPEG-4/JPEG, 25 fps (720 x 576)       Audio	QVGA)
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       Video compression format     H.264, MPEG-4, JPEG       Maximum frame rate     H264/MPEG-4/JPEG, 25 tps (720 x 576)       Audio        Audio compression     G.711/G.726       Scene Analytics        Simple activity detection     No       Intelligent motion detection     No       Intelligent object detection     No       Network        Protocols     TCP/IP, ARP, ICMP, HTP, FIP (client/server), SMIP, DHCP, NIP, RIP/RTCP, SNMP (MIB-2)       Wireless network     Yes (Optional card)       Number of clients     10       Authentication     IEEE802.1X       Interface     108ASE-T/100BASE-TX (RJ-45)       Ethernet     10BASE-T/100BASE-TX (RJ-45)       Card slots     CF card x1       Analogue video output     Composite video (1Vp-p)	QVGA)
Tilt speed         400 degrees/s (max.)           Image         Codec image size           Codec image size         (H x V) 720 x 576, 640 x 480 (VGA), 384 x 288, 320 x 240           Video compression format         H.264, MPEG-4, JPEG           Maximum frame rate         H264/MPEG-4/JPEG, 25 fps (720 x 576)           Audio	QVGA)
Image         Codec image size         (H x V) 720 x 576, 640 x 480 (VGA), 384 x 288, 320 x 240           Video compression format         H.264, MPEG-4, JPEG           Maximum frame rate         H264/MPEG-4/JPEG, 25 tps (720 x 576)           Audio         Audio compression           Scene Andvices         Simple activity detection           No         Intelligent motion detection           Intelligent motion detection         Yes (with built-in Post Filter)           Intelligent object detection         No           Network         Yes (Optional card)           Wireless network         Yes (Optional card)           Number of clients         10           Authentication         IEEE802.1X           Interface         108ASE-T/100BASE-T/1	QVGA)
Codec image size       [H x V] 720 x 576, 640 x 480 (VGA), 384 x 288, 320 x 240         Video compression format       H.264, MPEG-4, JPEG         Maximum frame rate       H264/MPEG-4/JPEG, 25 fps (720 x 576)         Audio       Audio compression         Audio compression       G.711/G.726         Scene Analytics       Simple activity detection         Intelligent motion detection       No         Intelligent object detection       No         Network       Vise (with built-in Post Filter)         Intelligent object detection       No         Network       TCP/IP, ARP, ICMP, HITP, FIP (client/server), SMIP, DHCP, NIP, RTP/RTCP, SMMP (MIB-2)         Wireless network       Yes (Optional card)         Number of clients       10         Authentication       IEEE802.1X         Interface       10BASE-T/100BASE-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)	QVGA)
Video compression format     H.264, MPEG-4, JPEG       Maximum frame rate     H264/MPEG-4/JPEG, 25 fps (720 x 576)       Audio     Audio compression       Audio compression     G.711/G.726       Scene Analytics     Simple activity detection       Simple activity detection     No       Intelligent motion detection     Yes (with built-in Post Filter)       Intelligent motion detection     No       Network     Yes (Optional card)       Wireless network     Yes (Optional card)       Number of clients     10       Authentication     IEEE802.1X       Interface     10BASE-T/100B	QVGA)
Maximum frame rate         H264/MPEG-4/JPEG, 25 fps (720 x 576)           Audio	
Audio           Audio compression         G.711/G.726           Scene Analytics         Simple activity detection           Simple activity detection         No           Intelligent motion detection         Yes (with built-in Post Filter)           Intelligent motion detection         No           Network         No           Protocols         TCP/IP, ARP, ICMP, HTTP, FIP (client/server), SMTP, DHCP, NTP, RTP/RTCP, SNMP (MIB-2)           Wireless network         Ves (Optional card)           Number of clients         10           Authentication         IEEE802.1X           Interface         10BASE-Tr/100BASE-TX (RJ-45)           Serial interface         CF card x1           Analogue video output         Composite video (1Vp-p)	
Audio compression     G.711/G.726       Scene Analytics     No       Simple activity detection     No       Intelligent motion detection     Yes (with built-in Post Filter)       Intelligent object detection     No       Network     TCP/IP, ARP, ICMP, HTTP, FIP (client/server), SMTP, DHCP, NTP, RTP/RTCP, SNMP (MIB-2)       Wireless network     Yes (Optional card)       Number of clients     10       Authentication     IEEE802.1X       Interface     2       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)	
Scene Analytics           Simple activity detection         No           Intelligent motion detection         Yes (with built-in Post Filter)           Intelligent object detection         No           Network         TCP/IP, ARP, ICMP, HTTP, FTP (client/server), SMTP, DHCP, NTP, RTP/RTCP, SNMP (MIB-2)           Wireless network         Yes (Optional card)           Number of clients         10           Authentication         IEEE802.1X           Interface         2           Ethernet         108ASE-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)	
Simple activity detection         No           Intelligent motion detection         Yes (with built-in Post Filter)           Intelligent object detection         No           Network         TCP/IP, ARP, ICMP, HTTP, FTP (client/server), SMTP, DHCP, NTP, RTP/RTCP, SNMP (MB-2)           Wireless network         Yes (Optional card)           Number of clients         10           Authentication         IEEE802.1X           Interface         2           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)	
Intelligent motion detection         Yes (with built-in Post Filter)           Intelligent object detection         No           Network         TCP/IP, ARP, ICMP, HTTP, FTP (client/server), SMTP, DHCP, NTP, RTP/RTCP, SMMP (MIB-2)           Wireless network         Yes (Optional card)           Number of clients         10           Authentication         IEEE802.1X           Interface         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)	
Intelligent object detection No Network Protocols TCP/IP, ARP, ICMP, HTTP, FTP (client/server), SMTP, DHCP NTP, RTP/RTCP, SNMP (MIB-2) Wireless network Ves (Optional card) Number of clients 10 Authentication IEEE802.1X Interface Ethernet 10BASE-T/100BASE-TX (RJ-45) Serial interface Card slots CF card x1 Analogue video output Composite video (1Vp-p)	
Intelligent object detection No Network Protocols TCP/IP, ARP, ICMP, HTTP, FTP (client/server), SMTP, DHCP NTP, RTP/RTCP, SNMP (MIB-2) Wireless network Ves (Optional card) Number of clients 10 Authentication IEEE802.1X Interface Ethernet 10BASE-T/100BASE-TX (RJ-45) Serial interface Card slots CF card x1 Analogue video output Composite video (1Vp-p)	
Protocols         TCP/IP, ARP, ICMIP, HTTP, FTP (client/server), SMTP, DHCP, NTP, RTP/RTCP, SNMP (MIB-2)           Wireless network         Ves (Optional card)           Number of clients         10           Authentication         IEEE802.1X           Interface         Ethernet           Ethernet         10BASE-T/100BASE-TX (RJ-45)           Serial interface         CF card x1           Analogue video output         Composite video (1Vp-p)	
Protocols         TCP/IP, ARP, ICMP, HTTP, FTP (client/server), SMTP, DHCP, NTP, RTP/RTCP, SNMP (MIB-2)           Wireless network         Ves (Optional card)           Number of clients         10           Authentication         IEEE802.1X           Interface         Ethernet           Serial interface         RS-232C/RS-422 (PELCO D protocol)           Card slots         CF card x1           Analogue video output         Composite video (1Vp-p)	
Wireless network         Yes (Optional card)           Number of clients         10           Authentication         IEEE802.1X           Interface         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)	DNS,
Number of clients         10           Authentication         IEEE802.1X           Interface         IOBASE-T/100BASE-TX (RJ-45)           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)	
Authentication         IEEE802.1X           Interface         Ethemet         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)	
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)	
Ethemet         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)	
Serial interface         RS-232C/RS-422 (PELCO D protocol)           Card slots         CF card x1           Analogue video output         Composite video (1Vp-p)	
Card slots CF card x1 Analogue video output Composite video (1Vp-p)	
Analogue video output Composite video (1Vp-p)	
Alarm output x 2	
External microphone input Mini-jack (Monaural), MIC IN/LINE IN: 2.2k ohm,	
Audio line output Mini-jack (Monaural), Max output level: 1 Vrms	
Audio line ouiput Mini-jack (Monaurai), Max ouiput level: 1 virns Analogue video output	
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 2GH higher, RAM: 1GB or more	
Web browser Microsoft Internet Explorer Ver6.0 or higher	z or
Supplied Accessories	z or
Base unit, Top Sunshade, rotate and lock coupling, Wate plug, Screws, Cables (Power input, BNC, I/O, Serial), Insta manual, CD-ROM (User's guide, SNC toolbox), Wire ro	z or

### VIDEO SECURITY

SNC-ZB550 Hybrid Fixed Camera.

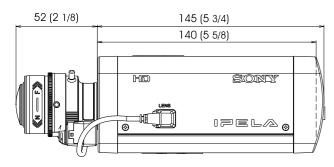


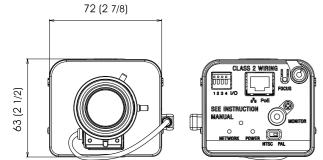
### VIDEO SECURITY

## SNC-ZM551 Hybrid Vandal Mini Dome Camera.

- H264 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
- Sony 1/3" Exmor HD CMOS image sensor with mechanical IRC filter. Designed for security with superior HD image resolution in all lighting conditions
- **Bay/night function.** Ideal for mechanical switching to monochrome in night conditions

• ONVIF (Open Network Video Interface Forum) conformance that ensures greater interoperability and more flexibility in building multiple-vendor systems







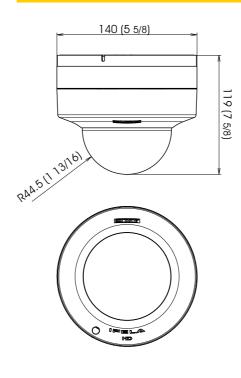
bec	fications

M		
Maximum resolution (IP)	1280 x 1024 (1.3 Mega)	
Horizontal viewing angle	96.5° to 33.9°	
Zoom ratio	2.9x optical zoom	
Focal length	f=2.8 to 8 mm	
Lens type	CS mount lens	
Minimum illumination	Colour: 0.50 k, B/W: 0.30 k (F1.2/AGC 42dB/50IRE (IP))	
Camera Features		
Day/Night	Yes	
Wide-D	No	
Noise reduction	Yes	
Image		
Codec streaming capability	Dual streaming (Any combination with H.264/MPEG-4/JPEG, including multiple streams of the same format)	
Video compression format	H.264/MPEG-4/JPEG	
Computer display format	HD	
Maximum frame rate	30 fps H.264/MPEG-4/JPEG at 1280 x 720	
Image device	1/3 type progressive scan Exmor CMOS sensor	
Network		
Wireless capability	No	
Interface		
Card slots	No	
Analogue video output		
Signal system	NTSC standard/PAL standard (selectable)	
General		
Power requirements	AC 24 V, DC 12 V	
Power consumption	6 W max. (TBD)	
Dimensions	$72 \times 63 \times 197$ mm (2 7/8 $\times$ 2 1/2 $\times$ 7 7/8 inches) with lens, not including projecting parts	

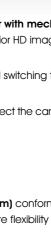
olution (IP)	1280 x 1024 (1.3 Mega)
ng angle	96.5° to 33.9°
	2.9x optical zoom
	f=2.8 to 8 mm
	CS mount lens
	Colour: 0.50 lx,
ination	B/W: 0.30 lx
	(F1.2/AGC 42dB/50IRE (IP))
ures	
	Yes
	No
n	Yes
ing capability	Dual streaming (Any combination with H.264/MPEG-4/JPEG,
• • •	including multiple streams of the same format)
ssion format	H.264/MPEG-4/JPEG
olay format	HD
ne rate	30 fps H.264/MPEG-4/JPEG at 1280 x 720
	1/3 type progressive scan Exmor CMOS sensor
oility	No
	No
eo output	
	NTSC standard/PAL standard (selectable)
nents	AC 24 V, DC 12 V
ption	6 W max. (TBD)
	72 × 63 × 197 mm
	(2 7/8 × 2 1/2 × 7 7/8 inches) with lens,
	not including projecting parts

H264 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
Sony 1/3" Exmor HD CMOS image sensor with mechanical IRC filter. Designed for security with superior HD image resolution in all lighting conditions
Day/night function. Ideal for mechanical switching to monochrome in night conditions
<b>IK10-rated</b> vandal-resistant feature to protect the camera from destructive behaviours
Standard Features and Benefits

• ONVIF (Open Network Video Interface Forum) conformance that ensures greater interoperability and more flexibility in building multiple-vendor systems









Camera		
Naximum resolution (IP)	1280 x 1024 (1.3 Mega)	
lorizontal viewing angle	85.4° to 31.2°	
oom ratio	2.9x optical zoom	
ocal length	f=3.1 to 8.9 mm	
ens type	Built-in variable focal lens	
andal Resistant	IK10	
Ainimum illumination	Colour: 0.50 k, B/W: 0.30 k (F1.2/AGC 42dB/50IRE (IP))	
Camera Features		
Day/Night	Yes	
Vide-D	No	
loise reduction	Yes	
mage		
Codec streaming capability	Dual streaming (Any combination with H.264/MPEG-4/JPEG, including multiple streams of the same format)	
/ideo compression format	H.264/MPEG-4/JPEG	
Computer display format	HD	
/laximum frame rate	30 fps H.264/MPEG-4/JPEG at 1280 x 720	
mage device	1/3 type progressive scan Exmor CMOS sensor	
letwork		
Vireless capability	No	
nterface		
Card slots	No	
Analogue video output		
ignal system	NTSC standard/PAL standard (selectable)	
General		
ower requirements	AC 24 V, DC 12 V	
ower consumption	7 W max. (TBD)	
Dimensions	ø140 × 119 mm (ø5 5/8 × 4 3/4 inches)	

SNC-ZM550 Hybrid Mini Dome Camera.



### VIDEO SECURITY

HYBRID CAMERAS

## SNC-ZR550 / ZP550

SNC-ZR550 Hybrid Rapid Dome Camera. SNC-ZP550 Hybrid PTZ Camera.

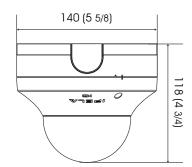
### Key Features and Benefits

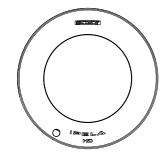
- **JPEG, MPEG-4 and H.264 streaming.** JPEG, MPEG-4, H.264 encoding allows maximum image transmission flexibility
- HD video at 30 fps. Superior High Definition image quality with real time capture
- Sony 1/3" Exmor HD CMOS image sensor with mechanical IRC filter. Designed for security with superior HD image resolution in all lighting conditions
- **Day/night function.** Ideal for mechanical switching to monochrome in night conditions

### Standard Features and Benefits

• ONVIF (Open Network Video Interface Forum) conformance that ensures greater interoperability and more flexibility in building multiple-vendor systems

### **Dimensions**







Camera Maximum resolution (IP) 1280 x 1024 (1.3 Mega) Horizontal viewing angle 85.4° to 31.2° Zoom ratio 2.9x optical zoom Focal length f=3.1 to 8.9 mm Lens type Built-in variable focal lens Colour: 0.50 lx, B/W: 0.30 lx Minimum illumination (F1.2/AGC 42dB/50IRE (IP)) Camera Features Day/Night Wide-D No Noise reduction Yes Image treaming (Any combination with H.264/MPEG-4/JPE Codec streamina capability including multiple streams of the same format) H.264/MPEG-4/JPEG Video compression format Computer display format HD 30 fps H.264/MPEG-4/JPEG at 1280 x 720 Maximum frame rate Image device 1/3 type progressive scan Exmor CMOS sensor

Network		
Wireless capability	No	
Interface		
Card slots	No	
Analogue video output		
Signal system	NTSC standard/PAL standard (selectable)	
General		
Power requirements	AC 24 V, DC 12 V	
Power consumption	7 W max. (TBD)	
Dimensions	ø140 × 118 mm (ø5 5/8 × 4 3/4 inches)	

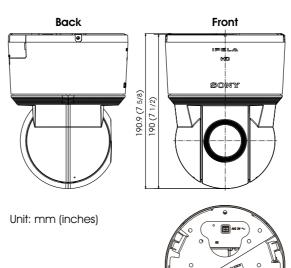
### Key Features and Benefits

- H224 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
  1/4" CCD with Exwave HAD" technology. Superior image quality with extended infra red response
  Day/night function. Ideal for mechanical switching to monochrome in night conditions
- **IK10-rated** vandal-resistant feature to protect the camera from destructive behaviours

### Standard Features and Benefits

• ONVIF (Open Network Video Interface Forum) conformance that ensures greater interoperability and more flexibility in building multiple-vendor systems

### Dimensions













Camera	SNC-ZR550	SNC-ZP550
Naximum resolution (IP)		x 720
lorizontal viewing angle	55.9° to 2.1°	
coom ratio	28x optic	cal zoom
ocal length	f=3.5 to	98 mm
ens type	Auto-focus	zoom lens
Rapid Dome" or "PTZ"	Rapid Dome	PTZ
an angle	360° endless rotation	340°
ilt angle	-105° to +105° (210° tilt)	-15° to +90°
/inimum illumination	Colour: 0.7 lx (F1.35/AGC C B/W: 0.07 lx (F1.35/AGC O	DN/shutter 1/30 s/30 IRE (IP)), N/shutter 1/30 s/30 IRE (IP))
Camera Features		
Day/Night	Ye	es
Vide-D	Dync	Niew
loise reduction	Ye	es
mage		
Codec streaming capability	Dual streaming (Any combination with H.264/MPEG-4/JPEG, including multiple streams of the same format)	
/ideo compression format	H.264/MPEG-4/JPEG	
Computer display format	н	D
Naximum frame rate	30 fps H.264/	MPEG-4/JPEG
mage device	1/4 type Exmo	r CMOS sensor
letwork		
Vireless capability	N	0
nterface		
Card slots	SD cc	ırd x 1
nalogue video output		
ignal system	NTSC standard/PAL standard (selectable)	
Seneral		
ower requirements	hPoE, AC 24 V	
ower consumption	TB	D
Dimensions	ø147.4 × (ø5 7/8 × 7	190.9 mm 5/8 inches)

### ENCODER

## 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 imageenhancing 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.

Voice alert

Onvif support



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

Encoder Features	SNT-EX101	SNT-EX101E	SNT-E
Visibility enhancer			
XDNR			
Coaxitron control		Yes	
Interface			
Analogue video input	xl		
Composite buffered throughout	٢١		
Ethernet			-
Serial interface	RS-422/RS-	-485	RS-4
USB Memory slots	x1		X
Sensor input	x2		x
Alarm output	x2		X
Audio interface (IN/OUT)	IN x1, OU	[x]	IN x4, 0
External microphone input	Mini-jack (monaural), MIC	IN/LINE IN: over 2.2kohm,	2.45VDC plug-i
Audio line output	Mini-jack (m	onaural), Max output leve	l: 1,5Vp-p
Image			
Codec image size (HxV)		D1 (NTSC: 720	x 480, PAL: 720
Video compression format			
Maximum frame rate		ŀ	1264/MPEG-4/JF
Audio			
Audio compression	G.711/G.	726	
Scene Analytics			
Intelligent motion detection	Ye	es (with built-in Post Filter)	
Motion detection		No	
Advanced audio detection	Yes		
Network			
Protocols	ID.//	IPv6, TCP, UDP, ARP, ICM	
Number of clients	II V4,		. 10101 , 1111 , 11
Authentication			
Number of IP address/Mac	xl		
address			
General			-
Weight	Approx. 0.4kg		Approx. 1.4k
Dimensions (W x H x D)	73 x 34 x 15 2 7/8 x 1 3/8 x 6		
Power requirements	AC 24V (In ±20%, Out)	PoE (802.af)	
Power consumption	9.6W mc		14.4W
Operating temperature	0 to 50°		
Storage temperature	0.000	•	1
System requirements			
Operating system			
Processor			Inte
Memory			1110
Web browser			Microso
Supplied Accessories			141101030
ouppriou Accessones	CD-ROM (User's Guide and s	upplied programs) (1)	CD-ROM (U
	Installation Manual (1), B&P V		Installation
	port connector (1), 24V AC co	onnector (1), Attachment	adap
	brackets (4), Attachr	ment screws (8)	l/O p

### Key Features

- D1 resolution support
- XDNR noise reduction
- technology
- Visibility Enhancer
- DFI (Dynamic Frame Integration)
- DEPA Advanced analytics
- Triple codec support

### Peripherals



**Configurations** 

## Optional Accessories

Advanced audio detection

• Versatile telemetry interface

• External storage solutions

SNT-RS3U 3U rack station, houses up to 12 SNT-EX(P154 blade encoders to provide a maximum of 48 analogue input channels

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

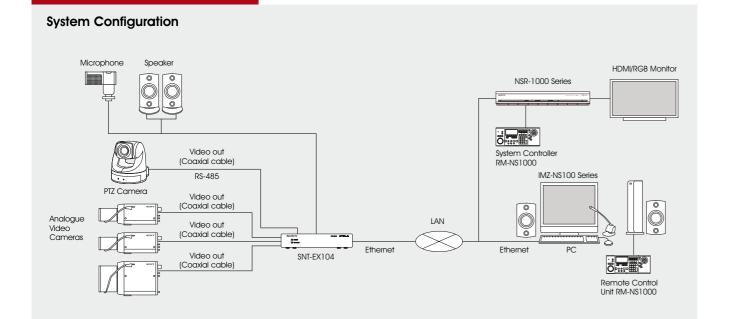
SNTA-RP1

SNT-RS1U 3U rack station, houses up to 4 SNT-EX154/EP154 blade encoders to provide a maximum of 16 analogue input channels.

### Delivers the highest possible image quality

**Benefits** 

- 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





(104	SNT-EP104	SNT-EX154	SNT-EP154
	es.		
Ye			
	No	Yes	No
	X	4	
		-	
10Base-T/100B	Base-TX (RJ-45)		
85	-	RS-485	-
,		-	
	-	x4	-
	-	x4	-
DUT x4	-	IN x1, OUT x1	-
n power	-	Mini-jack (monaural), MIC IN/LINE IN: over 2.2kohm, 2.45VDC plug-in power	-
	-	Mini-jack (monaural), Max output level: 1,5Vp-p	-
	40 x 480), CIF (384 x 288), Q	VGA (320 x 240)	
H.264, MPE		0	
EG: 30 TPS (INI	SC: 720 x 480, PAL: 720 x 57	6)	
	G 711	/G.726	
	0.711	10.720	
	N.,	Yes	N.
	No	(with built-in Post Filter)	No
	Yes	No	Yes
	No	Yes	No
		11	
TPS, FTP (client	t/server), SMTP, DHCP, DNS, N	TP, RTP/RTCP, RTSP, SNMP (MB-2	2)
1	0		
IEEE80	02.1X		
	x	4	
g (2 lb 3 oz)	Approx. 1.3kg (2 lb 3 oz)	Approx. 0.4	1ka (14 oz)
210 x 44 >		78 x 34 x	
	( 9 7/8 inches)	3 1/8 x 1 3/8 x	
DC	12V	From Rac	k Station
max.		12W max.	
		45°C	
-20 to	00°C		
Microsoft Wir	ndows Vista®		
	, 1.8GHz or higher.		
	r more		
	lorer Ver. 6.0, Ver. 7.0		
ser's Guide an	d supplied programs) (1),	Installation Manual (1), B	& P. Warranty Pooklot (1)
	P Warranty Booklet (1), AC	I/O port connector (	
OF LAC-INB 12A	(1), Power cord (1),	Attachmen	

### VIDEO SECURITY

RECORDING SOLUTIONS

## 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
- Flexible custom screen layouts

• Hot spot monitoring function

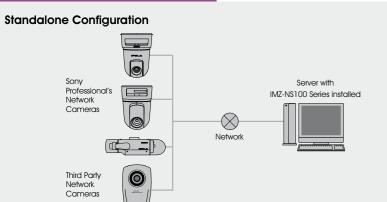
- Totally scalable with multiple camera options
- Open platform

Minimal operator training required

**Benefits** 

- 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

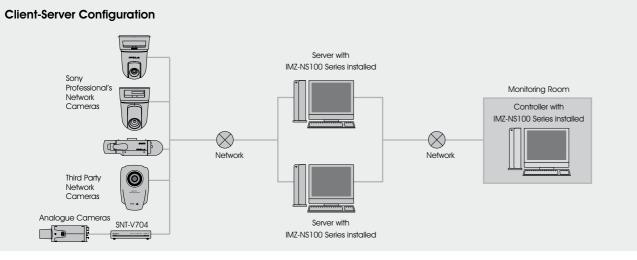
### Configurations



### Sony IP came / Encoder Support device 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 DEPA (VMF) No Yes Manual Action No Yes

RSM Lite

RSM AD



### **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 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 <sup>®</sup> Core <sup>™</sup> 2Duc	2.0-GHz or higher	
Main memory	1 GB c	or more	
HDD 2		10GB spare capacity (or more depending on the video that is to be stored)	
Video card	1024 x 768, 1	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

### **RSM Advanced Series software packages**

### IMZ-NS101

Control PC software for one networked video source.

### networked video sources.

IMZ-NS116

IMZ-NS104 Control PC software for up to four networked video sources.

### IMZ-NS132 Control PC software for up to 32 networked video sources images to be searched quickly.

### IMZ-NS109

Control PC software for up to nine networked video sources.





Post VMD Search

VMF Search

### Easy-to-use monitoring functions



### Hot spot monitoring/Dual monitor support



Control PC software for up to 16

### **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-500**

The NSR-500 is Sony's 16-channel full-HD network surveillance recording server delivering an excellent cost-performance ratio. Six models with different storage capacities are available, so you can select according to your precise requirements.

### **Key Features**

### Long-duration Recording

With a 12 TB HDD (2 TB x 6), you can record more than 300 hours of high-quality full-HD images compressed at 4 Mbps with a frame rate of 30 fps.

• RAID Technology to Prevent Disk-failure Data Loss

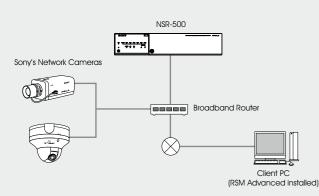
The hard disk storage units of the NSR-500 are configured with high redundancy. They feature RAID implementations and hotswappable capabilities to protect important data against hard disk failure, 24 hours a day. You can choose from RAID 1 (1+0), RAID 5 or RAID 5 + Hot Spare, depending on your system requirements.

### Optional Licenses for Future System Expansion

The optional NSBK-CL05 allows you to add extra licenses, and you can connect up to 24 network cameras to a single NSR-500 (including the original 16 cameras).

### Configurations

### **Standalone Configuration**



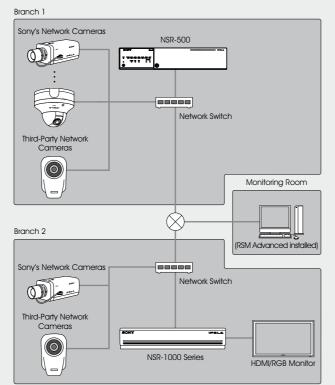
### • Easy Setup and Easy Operation

The NSR-500 detects Sony's network cameras in a network and sets up all the parameters of each camera in a step-by-step manner with a dedicated setup wizard. This drastically reduces the time required for system installation. Images from cameras are assigned automatically to a monitor layout menu, so that you can start monitoring instantly.

### Backward System Compatibility

The NSR-500 can be used with Sony's existing recording systems such as the NSR-1000 Series, and RealShot Manager Advanced, through the RealShot Manager Advanced client, whose software can be downloaded from the NSR-500.

### **Multi-location System**





### **Specifications**

Video/Recording		
Number of cameras supported	16 (max. 24ch with NSBK-CL05)	
Video compression (IP camera)	H.264, MPEG-4, JPEG	
Total recording frame rate (at H.264, full-HD, 4 Mbps)	480 fps	
Recording frame rate / camera	Max. 30 fps / camera	
Hard disk drives	Up to 12 TB (2 TB x 6)	
(physical capacity)		
Hard disk drives (interface)	Serial ATA	
Hard disk drives (RAID level) *RAID level to be selected depends on the number of HDDs	RAID 0, 1 (1+0), 5, 5+hot spare	
Hard disk drives (recording capacity)	NSR-500:01 (RAID no) : Approx. 880 GB NSR-500:02 (RAID 0) : Approx. 1.7 TB NSR-500:04 (RAID 5) : Approx. 2.6 TB NSR-500:08 (RAID 5) : Approx. 5.4 TB NSR-500:12 (RAID 5) : Approx. 9.0 TB	
Expansion storage	iSCSI storage (max. 16 TB)	
Video Output		
Monitor OUT *1	Analogue RGB (D-sub 15-pin) x 1	
Monitor OUT display resolution	1,920 x 1,200 / 1,920 x 1,080 / 1,360 x 768 / 1,600 x 1,200 / 1,280 x 1,024 / 1,024 x 768	
Audio Output		
Audio OUT	Stereo mini jack x 1	
Sensor Input/Alarm Output		
Sensor IN	Compatible with DC3.3 V to 24 V, photo coupler input x 8 (insulated from main unit)	
Alarm OUT	Max. DC 24V/1A, mechanical relay output x 8 (insulated from main unit)	
Other Interfaces		
Ethernet	1000BASE-T/100BASE-TX/10BASE-T x 2	
USB	USB2.0 x 2 (Front), USB2.0 x 2 (Rear)	
Serial interface (for UPS)	RS-232C : D-sub 9-pin x 1	
General		
Dimensions (W x H x D)	440 x 88 x 400 mm (17 3/8 x 3 1/2 x 15 3/4 inch), excluding protrusions	
Mass	Approx. 9.4 kg (20 lb 12 oz)	
Power requirements	100 V to 127 V AC / 200 V to 240 V (50/60 Hz)	
Power consumption	Max. 250 W (100-240 V 3.5-1.5 A)	
Operating temperature	5 to 40 degrees C (41 to 104 degrees F)	
Operating humidity	20 to 80% (no condensing)	
Supplied accessories	Installation manual x 1, CD-ROM x 1, Flyer (WEEE) x 1, Flyer (EU battery) x 1, Warranty booklet x 1, Front panel key x 2, Rubber PAD x 4, HDD screw x 24 (*w/o HDD model only), Setup Disc x 1 (*w/o HDD model only)	

## Hybrid Camera Receivers SNCA-ZX104 4CH Hybrid Camera Receiver. SONY MANNI IPELA



### Line-up

NSR-500	NSR-500:00	NSR-500:01	NSR-500:02	NSR-500:04	NSR-500:08	NSR-500:12
HDD	-	1 TB x1	1 TB x2	1 TB x4	1 TB x4	1 TB x6
Physical capacity	-	1 TB	2 TB	4 TB	8 TB	12 TB
Default RAID level	-	-	RAID 0		RAID 5	

### **Optional Accessories**

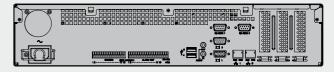
- Additional Camera License NSBK-CL05
- Hard Disk Drive (1 TB) NSBK-HS05:01
- Hard Disk Drive (2 TB) NSBK-HS05:02

### Connectors

### Front Panel (Cover Open) NSR-500



### Rear Panel NSR-500



\*1: Monitoring performance depends on the number of cameras registered and recorded, so Display Out is used for making settings.



Video/Recording	SNCA-ZX104	
Number of supported hybrid cameras	4	
Camera input	BNC x 4	
Analogue video output	BNC x 4	
Other Interfaces		
Network port	RJ45 x 1 (100Base-TX/10Base-T)	
Serial interface	RS-485 x 1	
Supported Serial PTZ control protocol	Pelco-D	
General		
Power requirements	DC 12 V (AC 100 V to AC 127 V, AC 200 V to AC 240 V, 50/60 Hz for AC adaptor)	
Power consumption	Approx. 8.5 W/9.0 W (AC 100 V/AC 240 V) with AC adaptor	
Dimensions (W x H x D)	210 x 44 x 250 mm (8 1/3 x 1 3/4 x 9 7/8 inches) not including projecting parts	

## **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.



NSRE-Si8/1

8 Drives (3.5")

NSRE-Si16/1

16 Drives (3.5")

SAS(3Gb/s), SATAII(3Gb/s), NCQ, TCQ

Single (Intel® IOP348 1.2GHz)

**Specifications** 

Form Factor

Drive Support

Controller

System and Controller Feature

### 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)

### Dimensions

NSRE-Si8/1

Peripherals

NSR-RM1\*

60

### • 16 hot-swappable SAS/SATA drive bays in a robust 3U chassis

NSRE-Si16/1\*

- 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

NSRE-Si16/1

- technology for robust error handling and recovery
- LCD Panel support (optional)
- Wake-on-LAN support (VessRAID) • Wake-on-SAS support (VessJBOD

- 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)

Controller	Single (intel® i	OP348 1.2GHZJ
Host Channel	Quad Ports full-	duplex 1Gb 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)	
ISCSI Features	Error Reco Link Aggregation and Ju Concurre CHAP, ISNS	very Level 0 imbo Frames w/ up to 64 nt Sessions 6 and DHCP 11 MPIO Support
Command Queue Depth		024
NAS Features		
File Sharing Protocol	SMB/CIFS (Apple, Mic	rosoft), NFS (Linux/Unix)
Network Protocol	F	TP
Data Services	Online Volume Clone, Bo	ox Replication, NAS Fusion
Operational Features		
RAID Levels		0 (0+1), 30, 50, 60
Hot spares		d w/ revertible option
Max LUNs per subsystem		56
Max LUNs per array		32
Variable Block and Sector Size		tripe block sizes
Disk Data Formats	Supports Disk Data Form	, 4KB sector size at (DDF) for drive roaming essRAID series systems.
Background Activities	Media Patrol Background Synchronizing; Initialization Rebuild; Redundancy Check SMART Condition Pooling, OCE (Online Capaci Expansion)/RLM (RAID Level Migration) Priority Control; Throttle Rate Control and watermarking per BGA (background activities) Disk and NVRAM PDM (Predictive Data Migration) PerfectRAID <sup>™</sup> advanced error handling	
RAID Robustness	Array Error Recovery Read/Write Check Table, Write Hole Table, Bad Sector Re-map Table, NVRAM event logging	
System Management		
Supported OS	RedHat Linux, SuSE VMWare ES	2 2003, Vista, 2008 <sup>1</sup> E Linux, FreeBSD 7.0 IX 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		I Serial Port, USB Telnet, SLP
Event Notification	Email , SNMP, NETSEND, Buzzer, LEDs, LCD Control Panel	
System Information		
AC Input	90 ~ 264 VA	.C, 47 ~ 63Hz
Current (Maximum)	6A (100V); 3A (240V) Single 350W	7A (100V); 3.5A (240V) Single 450W
Power Supply	90-264V full-ranging w/PFC 80PLUS® Bronze	90-264V full-ranging w/PFC 80PLUS® Bronze
Power Consumption		242.8 Watts (w/ SAS drives) 72.2Watts (w/o drives)
FΔN	N+1	Design

Current (Maximum)	0A (100V); 3A (240V) 7A (100V); 3.5A (240V)
	Single 350W Single 450W
Power Supply	90-264V full-ranging w/PFC 90-264V full-ranging w/PFC
	80PLUS® Bronze 80PLUS® Bronze
Power Consumption	167.3 Watts (w/ SAS drives) 242.8 Watts (w/ SAS drives)
· · · · · · · · · · · · · · · · · · ·	73.2Watts (w/o drives) 72.2Watts (w/o drives)
FAN	N+1 Design
Temperature	$5^{\circ} \sim 40^{\circ}C^2$ (- $40^{\circ} \sim 60^{\circ}C$ non operational)
Relative Humidity	10% to 80% non-condensing
Dimensions (H x W x D)	88.2 x 446.2 x 461 mm 130.1 x 446.2 x 461 mm
Dimensions (n x w x D)	3.5 x 17.6 x 18.1 in 130.1 x 446.2 x 461 mm
Weight	10.8 kg (23.81 lbs) w/o drives 13.2 kg (29.1 lbs) w/o drives
	16kg (35.27 lbs) w/ drives 23.6 kg (52.03 lbs) w/ drives
	VessRAID 2U/3U Unit w/ Drive Carrier
Base Configuration	VessRAID 2U/3U Unit w/ Drive Carrier
	RJ11-to-DB9 Serial Data Cable, Power Cord
Warranty and Support	
Warranty	3 years limited warranty <sup>3</sup>
Supported Hardware Options	LCD Panel, Front Bezel, Sliding Rail,
supponed narawate Options	Battery Backup Unit, SAS Cable

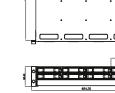
 $^{1}$ Microsoft<sup>®</sup> WHQL for Windows Server 2003 and 2008.  $^{2}$ Operational Temperature between 5°  $\sim$  35°C if BBU installed. <sup>3</sup>BBU is covered by one year limited warranty.

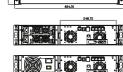
- Rackmount kit for the following products NSR-1100/2T, NSR-1200/4T & NSR-1050H/1T. installation in a standard 19" rack housing.
- NSRE-RM2\*

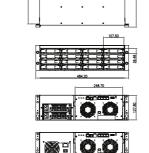
NSRE-RM3\*



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







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

- NSRE-SJBOD16/1

NSRE-SJBOD16/1\*



JBOD I/O Module Features	NSRE-SJBOD16/1	
Form Factor	3U	
Drive Support	16 Drives (3.5")	
	SAS(3Gb/s), SATAII(3Gb/s)	
Controller	Single	
Host Channel	Dual, IN/OUT SAS-wide(x4) port over SFF-8088	
Host Options		
	SuperTrak EX8654, SuperTrak EX8658	
Promise RAID HBA	SuperTrak TX8658	
Promise RAID Storage System	VessRAID 1000 iSCSI/SAS Series	
SAS Features		
	SAS Features	
	Full SAS domain Topology Management	
	SAS Management Protocol	
Management Function	In-band Access to Expander and PHY	
	Statistic Counters and Performance Monitors	
	Statistic Counters and Performance Monitors	
	SES Enclosure Management	
System Management		
	Windows 2000, XP, 2003, Vista, 2008	
Supported OS	Windows 2000, XP, 2003, Vista, 2008	
	RedHat Linux, SuSE Linux, FreeBSD 7.0 LED Status Indicator	
Management Interfaces	In-band SES Enclosure Management	
Management intendces	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	
roner oupply	80PLUS® Bronze	
FAN	N+1 Design	
Temperature	5° ~ 40°C1 (-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 13.8 kg (30.42 lbs) w/o drives	
Weight	13.8 kg (30.42 lbs) w/o drives	
	VessJBOD 2U/3U Unit w/ Drive Carrier	
	RJ11-to-DB9 Serial Data Cable, Power Cord	
Base Configuration	Quick Start Guide, Set of Screws, CD (Product	
	Manual, Firmware Update Tool, QSG)	
Warranty and Option		
Warranty	3 years limited warranty <sup>2</sup>	
Supported Hardware Options	Front Bezel, Sliding Rail, SAS Cable	
supponed Hardware Options	Front Bezel, silaing kali, sas Cable	

 $^{1}\text{Operational Temperature between 5}^{\circ} \sim 35^{\circ}\text{C}$  if BBU installed. <sup>2</sup>BBU is covered by one year limited warranty

ACCESSORIES - RECORDING SOLUTIONS

## NSR Accessories continued





### Features & Benefits

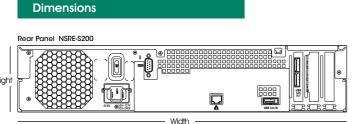
### NSRE-S200/4T

• 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.

### 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.

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

Ó 0 000 5 6 7 8 9 -0 -0 0 0 0 0 16 18 20 14 15 23 24 25 26 17 19 21 22

<ol> <li>JOG/SHUTTLE LED BUTTON</li> </ol>	10. CUSTOM FUNCTION BUTTON	19. MIC BUTTON
2. PAUSE	11. DIGITAL ZOOM BUTTON	20. MONITOR SELECT BUTTON
<ol><li>LOCK BUTTON</li></ol>	<ol><li>CURSOR LED BUTTON</li></ol>	21. FULL SCREEN BUTTON
<ol> <li>PANIC BUTTON</li> </ol>	13. JOYSTICK	22. BUILT-IN MIC
<ol><li>PLAY BUTTON</li></ol>	14. JOG/SHUTTLE DIAL	23. CAMERA SELECT BUTTON
<ol><li>ALARM BUTTON</li></ol>	15. LIVE BUTTON	24. NUMERIC KEY
<ol><li>LCD/MULTI FUNCTION BUTTON</li></ol>	<ol> <li>CAMERA TOUR BUTTON</li> </ol>	25. IRIS BUTTON
<ol><li>ALL SELECT BUTTON</li></ol>	17. STILL CAPTURE BUTTON	26. FOCUS BUTTON
<ol><li>PRESET/SET BUTTON</li></ol>	18. LAYOUT TOUR BUTTON	

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	P	-			-	<b>U</b>		v	

Storage Capacity		NSRE-S200/4T
	Physical capacity	4 TB (500 GB x4)
Hard disk drive	Interface	Serial ATA
Hara aisk arive	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 SCS	GI (SAS1.1)	SFF-8088 (mini-SAS 26pin): input x1, output x2
General		
Dimensions (W x H >	( 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	5	AC 100 to 127 V/200 to 240 V (50/60 Hz)
Power consumption	ı	Approx. 80 W (typical) (Max. 350 W)
Operating tempera	ature	5 to 40 °C (41 to 104 °F)
Operating humidity		20 to 80 %
Supplied accessori	es	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.)
	USB 2.0 (2)
External Interface	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 <sup>1</sup> / <sub>8</sub> x 4 <sup>1</sup> / <sub>2</sub> x 6 <sup>3</sup> / <sub>4</sub> 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 decrees C (90 degrees F))
Supplied Accessories	AC Adapter (1), First Step Guide (1), CD-ROM (User's Guide) (1), Warranty (1)

VIDEO SECURITY

ACCESSORIES - HOUSINGS

## SNCA-HRX550/EXT\*

The SNCA-HRX550/EXT Dome offers versatility and camera protection in a compact size. This IP66 outdoor dome housing is specifically designed to accomodate SNC-RZ25, RX series, EP/ER series and RS/RH series indoor cameras.

### Features and Benefits

- IP66 rated dome housing
- Designed to support SNC-RZ25, RX series, EP/ER series and RS/RH series indoor cameras in outdoor installations
- Constructed of durable engineered plastic top, 94VO, with UV protected lower dome
- Cast aluminium pendant mount is standard
- Optically clear .080 (2.0mm) thick polycarbonate dome
- 24 Hour fan operation for effective heating and condensation protection
- Thermostatically controlled 24VAC heater
- Separate power input for heater and blower and camera power

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-RZ25 SNC-RX530 SNC-RX550 SNC-RX570 SNC-RS44 SNC-RS46 SNC-RH124	SNC-EP521 SNC-EP550 SNC-EP580 SNC-ER521 SNC-ER550 SNC-ER580	SNCA-WM20G	SNCA-WM40 SNCA-CA2 (with SNCA-WM accessory) SNCA-PM3 (with SNCA-WM accessory) SNCA-HEATER	SNCA-POWERBOX	DuPont Sky White PFW-510-S

## SNCA-HRX550/INT\*

The SNCA-HRX550/INT 7" Dome offers versatility and camera protection in a compact size for indoor installations. This IP66 outdoor dome housing is specifically designed to accomodate SNC-RZ25, RX series, EP/ER series and RS/RH series indoor cameras.

- Designed for the SNC-RZ25, RX series, EP/ER series and RS/ RH series indoor cameras
- Constructed of Durable engineered plastic top, 94VO, with UV protected lower dome
- Cast aluminium pendant mount is standard
- Optically clear.118" (3mm) thick aspheric polycarbonate dome

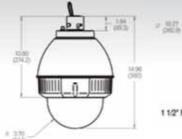
Model	Description	Rating	Operating temperature	Operating voltage	Applicable Co	amera Models	Optional c	Colour	
SNCA-HRX550/INT	Indoor dome camera housing	IP66	0°C to +40°C	24VAC	SNC-RZ25 SNC-RX530 SNC-RX550 SNC-RX570 SNC-RS44 SNC-RS46 SNC-RH124	SNC-EP521 SNC-EP550 SNC-EP580 SNC-ER521 SNC-ER550 SNC-ER580	SNCA-CEILING (always with SNCA-POLE30) SNCA-POLE30 SNCA-WM20G SNCA-WM20FC SNCA-WM30G	SNCA-WM40 SNCA-TINTED/2 SNCA-CLEAR/2 (included)	DuPont Sky White PFW-510-S9

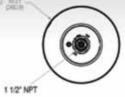
\*These products are manufactured by Videolarm

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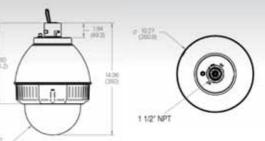
### Dimensions







### Dimensions



ACCESSORIES - HOUSINGS

## SNCA-HRX550EXT/R\*

The SNCA-HRX550EXT/R 7" dome housing offers heavy duty, vandal resistant protection for the camera. This tough dome housing is specifically designed to accomodate SNC-RZ25, RX series, EP/ER series and RS/RH series indoor cameras. The housing offers versatility and outstanding camera protection in a compact size.



### VIDEO SECURITY

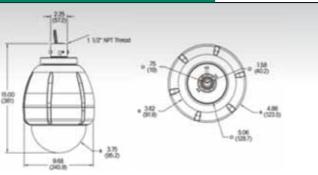
ACCESSORIES - HOUSINGS

## SNCA-RX550EXT12V\*

The SNCA-RX550EXT dome housing offers versatility and camera protection in a compact size. This IP66 dome housing is specifically designed as a 12vdc input enclosure for outdoor installations to accomodate SNC-RZ25, RX series, EP/ER series and RS/RH series indoor cameras.

### Features and Benefits

- IP66 outdoor IK10 rated vandal protection dome housing
- Designed for SNC-RZ25, RX series, EP/ER series and RS/RH series indoor cameras
- Outdoor dome, UV protected
- Strong cast aluminium 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 heater and blower and camera power
- Pendant mount, 11/2" NPT quick connect coupling



Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models		Ol	Colour		
SNCA-HRX550EXT/F	Heavy duty, outdoor dome housing	IP66	-29 to +50°C -44 to +50°C with optional heater/ blower kit added (SNCA-HEATER)	24VAC	SNC-RZ25 SNC-RX530 SNC-RX550 SNC-RX570 SNC-RS44 SNC-RS46 SNC-RH124	SNC-EP521 SNC-EP550 SNC-EP580 SNC-ER521 SNC-ER550 SNC-ER580	SNCA-CEILING (always with SNCA-POLE30) SNCA-POLE30 SNCA-WM20G SNCA-WM20FC SNCA-WM30G	SNCA-WM40 SNCA-CA2 (with SNCA-WM accessory) SNCA-PM3 (with SNCA-WM accessory)	SNCA-HEATER SNCA-TINTED/2 SNCA-CLEAR/2 (included) SNCA-POWERBOX (with SNCA-WM accessory)	DuPont Sky White PFW-510-S9

Dimensions

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Dimensions

## SNCA-HRX550EXT/W\*

The SNCA-HRX550EXT/W 7" dome housing offers versatility and camera protection in a compact size. This IP66 dome housing is specifically designed to accomodate SNC-RZ25, RX series and RS/RH series indoor cameras with wireless capability. 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

- IP66 outdoor dome housing
- Designed for SNC-RZ25, RX series and RS/RH series indoor cameras
- Constructed of Durable engineered plastic top, 94VO, with UV protected lower dome
- Cast aluminium 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 heater and blower and camera power
- Wireless antenna cable included with housing

Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models		Optional accessories		ies	Colour
SNCA- HRX550EXT/W	Outdoor dome housing for wireless installation	IP66	-29 to +50°C -44 to +50°C with optional heater/ blower kit added (SNCA-HEATER)	24VAC	SNC-RZ25 SNC-RX530 SNC-RX550 SNC-RX570 SNC-RS44 SNC-RS46 SNC-RH124	SNC-EP521 SNC-EP550 SNC-EP580 SNC-ER521 SNC-ER550 SNC-ER580	SNCA-CEILING (always with SNCA-POLE30) SNCA-POLE30 SNCA-WM20G SNCA-WM20FC SNCA-WM30G	SNCA-WM40 SNCA-CA2 (with SNCA-WM accessory) SNCA-PM3 (with SNCA-WM accessory)	SNCA-HEATER SNCA-TINTED/2 SNCA-CLEAR/2 (included) SNCA-POWERBOX (with SNCA-WM accessory)	DuPont Sky White PFW-510-S9

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### Features and Benefits

\* it doesn't power the camera

- IP66 outdoor dome housing
- Designed for SNC-RZ25, RX series, EP/ER series\* and RS/RH series indoor cameras
- Constructed of durable engineered plastic top, 94VO, with UV protected lower dome
- Cast aluminium 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 heater and blower and camera power

Model	Description	Rating	Operating temperature	Operating voltage	Applicable Mod	
SNCA- RX550EXT12V	Outdoor dome housing (12V)	IP66	-29 to 50°C	12VDC	SNC-RZ25 SNC-RX530 SNC-RX550 SNC-RX570 SNC-RS44 SNC-RS46 SNC-RH124	SNC-EP521* SNC-EP550* SNC-EP580* SNC-ER521* SNC-ER550* SNC-ER580*

## SNCA-HRX550/PRE\*

The SNCA-HRX550/PRE dome housing offers versatility and camera protection in a compact size. This IP66 dome housing is specifically designed to accomodate SNC-RZ25, RX series, EP/ER series and RS/RH series indoor cameras.

### Features and Benefits

- IP66 pressurized outdoor dome housing
- Designed for SNC-RZ25, RX series, EP/ER series and RS/RH series indoor cameras
- Constructed of durable engineered plastic top, 94VO, with UV protected lower dome
- Cast aluminium 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 heater and blower and camera power

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-RZ25 SNC-RX530 SNC-RX550 SNC-RX570 SNC-RS44 SNC-RS46 SNC-RH124	SNC-EP521 SNC-EP550 SNC-EP580 SNC-ER521 SNC-ER550 SNC-ER580	SNCA-CEILING (always with SNCA-POLE30) SNCA-POLE30 SNCA-WM20G SNCA-WM20FC SNCA-WM30G	SNCA-WM40 SNCA-CA2 (with SNCA-WM accessory) SNCA-PM3 (with SNCA-WM accessory)	SNCA-HEATER SNCA-TINTED/2 SNCA-CLEAR/2 (included) SNCA-POWERBOX (with SNCA-WM accessory)	DuPont Sky White PFW-510-S9

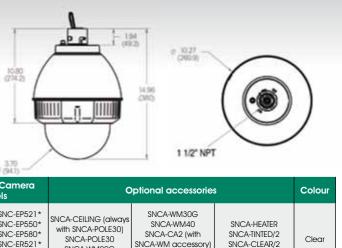
\*These products are manufactured by Videolarm



1 1/2" NPT



### Dimensions



SNCA-PM3 (with

SNCA-WM accessory

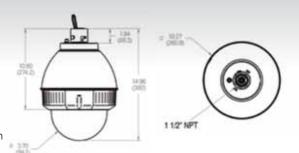


(included)

### Dimensions

SNCA-WM20G

SNCA-WM20FC



### ACCESSORIES - HOUSINGS

## 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 IP66 dome housing is specifically designed to accommodate Sony's SNC-RZ25 Network camera.



### VIDEO SECURITY

ACCESSORIES - HOUSINGS

Features and Benefits

Model

SNCA-HRZ50/EXT/R

• Outdoor dome, UV protected

Thermostatically controlled 24VAC heater

• Pendant mount, 11/2" NPT quick connect coupling • Accepts the SNC-RZ25N and SNC-RZ30N cameras

Description

Heavy duty, indoor

dome housing

## 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-RZ30 and SNC-RZ50 cameras. This housing offers versatility and outstanding camera protection in a compact size.

• Optically clear 118" (3mm) thick aspheric polycarbonate dome

• Separate power input for heater and blower and camera power

Rating

IP66

### Features and Benefits

- · Constructed of a durable engineered plastic top, 94VO, with UV protected lower dome
- Cast aluminium 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 heater and blower and camera power



Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models		Optional accessories		Colour
SNCA-HRZ25	Outdoor 8" dome housing, pendant mount with clear dome for SNC-RZ25 camera	IP66	-6.67 to +40°C	24VAC	SNC-RZ25P	SNCA-CEILING (always with SNCA-POLE30) SNCA-POLE30 SNCA-WM20G SNCA-WM20FC SNCA-WM30G	SNCA-WM40 SNCA-CA2 (with SNCA-WM accessory) SNCA-PM3 (with SNCA-WM accessory)	SNCA-HEATER SNCA-TINTED SNCA-CLEAR (included) SNCA-POWERBOX (with SNCA-WM accessory)	DuPont Sky White PFW-510-S9

## SNCA-HRZ50/EXT\*

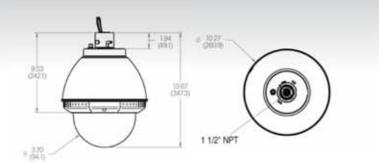
The SNCA-HRZ50/EXT Dome offers versatility and camera protection in a compact size. This inconspicuous dome housing is specifically designed to accommodate Sony's SNC-RZ30 and SNC-RZ50 cameras. The housing offers versatility and outstanding camera protection in a compact size.

### Features and Benefits

- Constructed of a durable engineered plastic top, 94VO, with UV protected lower dome
- Cast aluminium 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 heater and blower and camera power

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### Dimensions



Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models	Optional accessories	Colour
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

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## 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 and outstanding camera protection in a compact size.

### Features and Benefits

- Constructed of a durable engineered plastic top, 94VO, with UV protected lower dome
- Cast aluminium 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 heater and blower and camera power
- · Wireless ready model

Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models	Optional accessories	Colour
SNCA-HRZ50/EXT/W	External dome hous- ing (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

\*These products are manufactured by Videolarm



### Dimensions

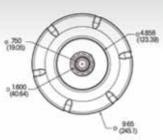
Operating

-29 to +50°C

 $(-44 \text{ to } +50^{\circ}\text{C} \text{ with})$ 

optional heater blower kit)

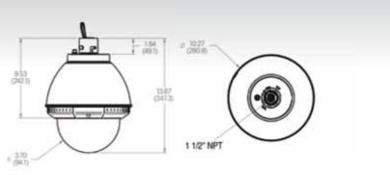




Operating voltage	Applicable Camera Models	Optional accessories	Colour
24VAC	SNC-RZ30P SNC-RZ50P	SNCA-CLEAR/2 (included) SNCA-TINTED/2 SNCA-HEATER	DuPont Sky White PFW-510-S9



### Dimensions



ACCESSORIES - HOUSINGS

## 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.



### VIDEO SECURITY

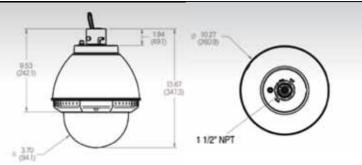
ACCESSORIES - HOUSINGS

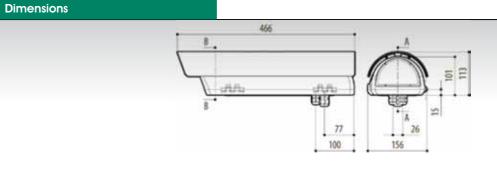
## SNCA-HFIXSML/24\*

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

- Constructed of a durable engineered plastic top, 94VO, with UV protected lower dome
- Cast aluminium pendant mount is standard
- Optically clear 118" (3mm) thick aspheric polycarbonate dome





Operating temperature

-28 to 48°C

514

Rating

IP66

Opera volta

24VAC

Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models	Optional accessories	Colour
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.



## SNCA-HFIXSTD/230\*

Description

Fixed housing, c/w

sunshield, heater,

wall bracket

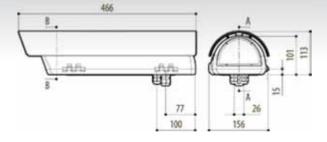
Model

SNCA-HFIXSML/24

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

68



Model	Description	Rating	Operating temperature	Operating voltage		e Camera dels	Optional accessories	Colour	Approx. Dimensions
SNCA-HFIXSML/230	Fixed housing, c/w sunshield, heater, wall bracket	IP66	-28 to 48°C	230VAC	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

Operating Operating Model Description Rating Fixed housing, c/w SNCA-HFIXSTD/230 sunshield, heater, IP66 -28 to 48°C 230VAC wall bracket

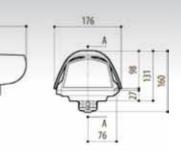
\*These products are manufactured by Videotec





ing ge		e Camera dels	Optional accessories	Colour	Approx. Dimensions
C	SNC-CS10 SNC-CS11 SSC-DC172P SSC-DC198P SSC-DC372P SSC-DC378P	SSC-E453P SSC-E458P SSC-E473P SSC-E478P SSC-M383CE SSC-M388CE	SNCA-CAFIX1 SNCA-CA2 SNCA-PMFIX1 SNCA-POWER- BOX	DuPont Sky White PFW-510-S9	L400 x H106 x W127.5mm





Applicable Camera		Optional	Colour	Approx.
Models		accessories		Dimensions
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-CAFIX1 SNCA-PMFIX1 SNCA-PSVTSTD24	DuPont Sky White PFW-510-S9	L514 x H131 x W176mm

## SNCA-HFIXSTD/24\*

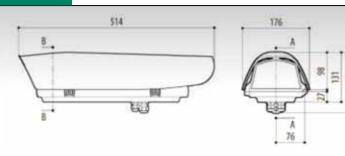
A 12VDC/24VAC die cast aluminium side opening housing with a cable managed bracket designed to the highest specification, IP66 rated to protect cameras against the weather.



### VIDEO SECURITY ACCESSORIES - MOUNTING HARDWARE

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

### Dimensions



Model	Description	Rating	Operating temperature	Operating voltage	Provide the second	e Camera dels	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-CA2 SNCA-PMFIX1 SNCA-POWERBOX	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

Model	Description	Rating	Operating temperature	Operating voltage		e Camera dels	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-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"

## Features and Benefits

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



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 11/2" NPT coupling.

Features and Benefits	
Constructed of heavy duty steel	° (22.2)
	150 (381)
	228 (572)

Model	Description	Applicable/compat	ible housing models	Optional accessories	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-R586P SNC-RH164	SNCA-POLE30 (Ceiling mount adapter) SNCA-RX550EXT12V	Black

\*This product is manufactured by Videolarm

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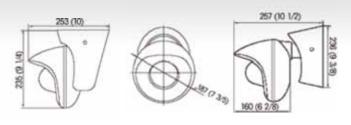
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Dimensions

70

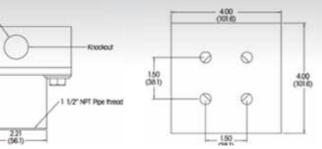


### Dimensions





### Dimensions



ACCESSORIES - MOUNTING HARDWARE

## SNCA-POLE30\*

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





ACCESSORIES - MOUNTING HARDWARE

SNCA-WM20FC\* The SNCA-WM20FC is an aluminium gooseneck wall mount

Ine SNCA-WM2UFC is an aluminium gooseneck wall mount bracket with fixed coupling for use with all dome enclosures.

### Dimensions 0 Imensions 0 Imen

Model	Description		compatible models	Optional accessories	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	Black

## SNCA-WM20G\*

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

## SNCA-WM30G\*

Features and Benefits

• 50 lb load rating

• All aluminium construction

• Durable powder coat finish

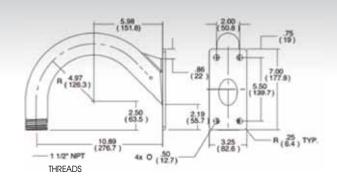
-  $1\frac{1}{2}$  pipe thread for quick and easy mounting

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  $1\frac{1}{2}$ " pipe thread to mount to any Sony dome. The design allows the dome to be swung back over the roof for servicing.

### Dimensions

\*These products are manufactured by Videolarm

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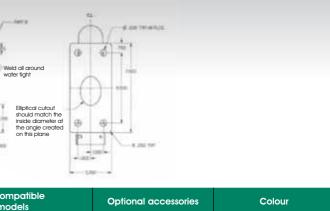
Model	Description		compatible models	Optional accessories	Colour
SNCA-WM20G	Gooseneck wall mount	SNCA-HRX550/EXT SNCA-HRX550/EXT/W SNCA-HRX550/INT SNCA-HRX550/EXT/RE SNCA-HRX550/EXT/RE SNCA-HRZ50/EXT	SNCA-HRZ50/EXT/W SNCA-HRZ50/INT SNCA-HRZ50/EXT/R SNCA-HRZ25 SNC-RH164	SNCA-PM3 (Pole mount adaptor) SNCA-CA2 (Corner adaptor) SNCA-POWERBOX	DuPont Sky White PFW-510-S9

Model	Description	Applicabl housir	
SNCA-WM30G	Gooseneck wall mount	SNCA-HRX550/EXT SNCA-HRX550/EXT/W SNCA-HRX550/INT SNCA-HRX550/EXT/R SNCA-HRX550/EXT/PRE	

\*These products are manufactured by Videolarm



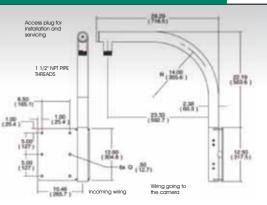




compatible models	Optional accessories	Colour
SNCA-HRZ50/EXT SNCA-HRZ50/EXT/W SNCA-HRZ50/INT SNCA-HRZ50/EXT/R	SNCA-PM3 (Pole mount adaptor) SNCA-CA2 (Corner adaptor) SNCA-POWERBOX SNCA-RX550EXT12V	DuPont Sky White PFW-510-S9



### Dimensions



ompatible models	Optional accessories	Colour
SNCA-HRZ50/EXT SNCA-HRZ50/EXT/W SNCA-HRZ50/INT SNCA-HRZ50/EXT/R	SNCA-RX550EXT12V	

ACCESSORIES - MOUNTING HARDWARE

Features and Benefits

## SNCA-WM40\*

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



### VIDEO SECURITY ACCESSORIES - MOUNTING HARDWARE





## SNCA-CA2\*

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

## SNCA-PM3\*

The SNCA-PM3 is an aluminium pole mount adapter.

Model	Description			Applicable/compatible housing models		Colour
SNCA-CA2	Corner mount bracket, 22Kg max load rating	SNCA-WM20G SNCA-WM40	SNCA-V SNCA-V	VMMD1 VMMD2	SNCA-WM20FC SNCA-WMMD4	DuPont Sky White PFW-510-S9
SNCA-PM3	Pole mount adaptor bracket	SNCA-WM20 SNCA-WM40			NCA-WMMD1 NCA-WMMD2	White
UNI-WMBB1	Aluminium wall/pole mount back box	SNCA-WMME SNCA-WM20F	-	SI	NCA-WM20G	Dupont SKY white PFW-510-S9

## SNCA-WMMD1\*

The SNCA-WMMD1 is a cast aluminium 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, aluminium 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

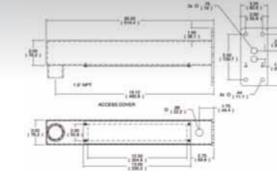
- Wall mount or pendant mount the SSC-CD73V or SNCDF70N
- All aluminium construction
- 1" pipe thread for pendant mounting
- Gooseneck bracket for wall mounting
- Outdoor or indoor use



Model	Description	Applicable/com housing mo
SNCA-WMMD1	Wall mounted mini dome bracket DF70/CD73	SNC-DF70 SSC-CD73

\*These products are manufactured by Videolarm

• Heavy duty wall mount for use with all Sony domes



Dimensions

Model	Description		compatible 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-RH164	SNCA-PM3 (Pole mount adapter) SNCA-CA2 (Corner adapter)	L53cm	DuPont Sky White PFW-510-S9











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

74

### SNCA-CAFIX1\*\* SNCA-PMFIX1\*\* SNCA-WMFIX10PC UNI-XBB1/T10PC UNI-XBS1/T10PC

with Brackets to be

attached to a pole

65mm and 110mm.

A Camera Bracket for allows the Housing range indoor usage, it is 14cm long and has an adjustment cameras. that allows for Wall or Ceiling of Diameter between mounting.

### Wall-mount bracket design for X series box-type black

Wall-mount bracket design for X series box-type silver cameras.

Model	Description		icable/co ousing m		Dimensions	Colour
SNCA-CAFIX1	Corner mount adapter	SNCA-HFIXSM SNCA-HFIXSMI		HFIXSTD/24 HFIXSTD/230	L22cm	
SNCA-PMFIX1	Pole mount adapter	SNCA-HFIXSM SNCA-HFIXSMI		HFIXSTD/24 HFIXSTD/230	L17.27cm	
SNCA-WMFIX10PC	Wall/ceiling camera bracket	SNC-CS10 SNC-CS11	SNC-CS SNC-CS	SNC-CM120 SNC-Z20P	H14.1cm	
UNI-XBB1/T	Black bracket for X series		SNC-CH1 SNC-CH2		H6.8cm x D5.05cm	Black
UNI-XBS1/T	Silver bracket for X series		SNC-CH1 SNC-CH2		H6.8cm x D5.05cm	Silver







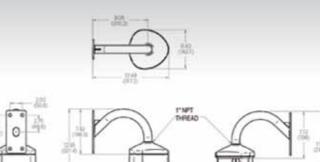
## **UNI-WMBB1**

Bracket back box for pole or wall mounting compatible with gooseneck SNCA-WM models



55CC073V

### Dimensions



**Optional accessories** Colour SNCA-CA2 DuPont SNCA-PM3 Sky White SNCA-POWERBOX PFW-510-S9

SNC-0F70N

## SNCA-WMMD2\*

The SNCA-WMMD2 is a cast aluminium 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, aluminium 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.



### VIDEO SECURITY

Dimensions

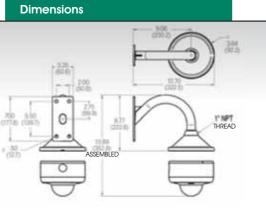
ACCESSORIES - MOUNTING HARDWARE

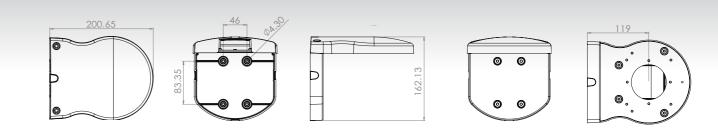
## SNCA-WMMD4\*

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

### Features and Benefits

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





Model	Description	Applicable/compatible housing models	Optional accessories	Colour
SNCA-WMMD4	Wall mounted bracket	SNC-DH140/DH240, SNC-DH120/DH220 SNC-D510/DM110 SNC-D50 SNC-R124 SNC-R124	N/A	

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

## SNCA-WMMD3\*

The SNCA-WMMD2 is a cast aluminium mini dome bracket kit that bolts directly the SNC-DH outdoor cameras, SNC-DM160 and SNC-DS60 to allow for wall or pendant mounting. A 1" NPT pipe thread, aluminium 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.

be used internally or externally.

Includes bracket and seal kit

DuPont

Sky White PFW-510-S9

SNCA-PM3 SNCA-POWERBOX

Features and Bene	fits		Dimensio	ns	
• Wall mount the SNC-DH and SNC-DS60	oudoor models, SNC-DM160			din din	- 14
• All aluminium construct	ion			- //	⇒}
• 1" pipe thread for pend	lant mounting		.328		
Gooseneck bracket for	wall mounting		130.65	200 0030 0050	-
Indoor or outdoor use		2			THREAD
Model	Description		compatible models	Optional accessories	Colour
	Mini dome mounting kit, can	SNC-DM160	SNC-DH180	SNCA-CA2	DuPont

SNC-DH260 SNC-DH280

SNC-DS60 SNC-DH160

	Model	Description	Applicable/ compatible housing models	Optional accessories	Dimensions	Colour
06	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
ob	YT-ICB140	In Ceiling bracket	SNC-DH140 SSC-CD45 SSC-CD45P SSC-CD49P SNC-DF50N SNC-DF50P SNC-D510 SNC-DM110 SNC-DH120 SNC-DH220 SNC-DH240			White
06	YT-ICB45	In ceiling bracket	SSC-CD45P SSC-CD75P SSC-CD75P SSC-CD77P SNC-DF50P SNC-DF50P SNC-DF80P SNC-DF80P SNC-DF85P SNC-D510 SNC-DM110 SNC-D860 SNC-DM160			White
	YT-ICB73V	In ceiling bracket for Ssc-cd73vp	SSC-CD73VP			Silver
8	YT-LD124C	Clear Dome Cover	YT-ICB124			Clear
	YT-LD124\$	Tinted Dome Cover	YT-ICB124			Tinted

SNCA-WMMD3

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\*This product is manufactured by Jawbone



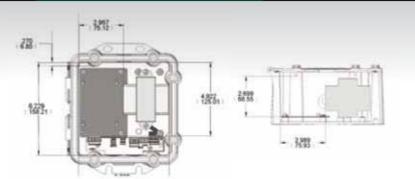
## SNCA-POWERBOX\*

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



### Features and Benefits

- Rugged cast aluminium 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



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

Dimensions

## 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

### **Dimensions**

78



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### **Specifications**

	,
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)

### VIDEO SECURITY

ACCESSORIES - POWER SUPPLIES

## 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

## 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	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



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-vear

## 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.



### VIDEO SECURITY

## 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.

Feature	es and Ben	efits			
	s with wall m ually fused c	Ŭ	<ul> <li>Comes with wall ma</li> <li>Weather proof encl</li> </ul>	Ŭ	
Model	Description		/compatible 1 models	Key features	с (

Model	Description	Ą	pplicable/con camera mo			Key features	Current (Amps)	voltage	Output Voltage (nominal)	Case	Approx. Weight	Approx. Dimensions W x H x D	Colou
SNCA-PS24/4	An indoor, in-line power supply with one output rated at 4 Amps, 24VAC, 50Hz	SNCA-HFIXED SNCA-HR225 SNCA-HR230 SNCA-HRX550/EXT/ SNCA-HRX550/EXT/R SNCA-HRX550/EXT/R SNCA-HR250/EXT SNCA-HR250/EXT/W SNCA-HR250/EXT/W SNCA-HR250/EXT/W	SNCA-HR250/INT SNC-CH120 SNC-CH140 SNC-CH240 SNC-CH240 SNC-CH160 SNC-CH180 SNC-CH280 SNC-CH280 SNC-CH280	SNC-DH140T SNC-DH240 SNC-DH240T SNC-DH160 SNC-DH180 SNC-DH260 SNC-DH280 SNC-RZ25P SNC-RZ50P SNC-RZ50P	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/ SNCA-HRX550/EXT/ SNCA-HRX550/EXT SNCA-HRZ50/EXT/ SNCA-HRZ50/EXT/R	SNCA-HR250/INT SNC-CH120 SNC-CH140 SNC-CH240 SNC-CH240 SNC-CH160 SNC-CH180 SNC-CH280 SNC-CH280 SNC-CH280	SNC-DH140T SNC-DH240 SNC-DH240T SNC-DH160 SNC-DH180 SNC-DH280 SNC-DH280 SNC-R225P SNC-R250P SNC-R250P	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

### 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			compatible 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-E473 SSC-E453	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-E453 SSC-DC374 SSC-DC174 SSC-DC193P	SSC-CD43VP SSC-CD73VP SNC-CS50P SNC-DF40P SNC-DF70P SNC-Z20P SNC-CS3P SNC-RX550P SNC-RX550P SNC-RZ25P	SNC-CH120 SNC-CH140 SNC-CH220 SNC-CH240 SNC-CH160 SNC-CH180 SNC-CH280 SNC-CH280 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

Model	Description	Applicable/compatible camera models	Key features	Operating voltage	Approx. Weight	Approx. Dimensions	Colour
	This camera power supply converts 230VAC to 24VAC to power the camera and fits perfectly inside the SNCA-HFIXSML/230 Housing.		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 carnera power PCB with 12vdc output for all outdoor model dome enclosures.		Controls the blower and heater				

80





### • Individually fused outputs

### ACCESSORIES - LIGHTING

## 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'.



### VIDEO SECURITY

ACCESSORIES - LIGHTING

## 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 <sup>™</sup> allows for the onsite adjustment of beam patterns from 30-60°, includes PSU with photocell.

### Features and Benefits

- Operates from PoE
- In Built Photocell
- Command and Control<sup>™</sup> technology
- 24/7 Illumination

Features and Benefits

Active LED Life Control
Vandal Resistant
Low Running Cost
5 Year Warranty

20m range 30° spread

Surface Mount LED Technology

- 20m range
- $30^{\circ}$  spread



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

1 1000

## SNCA-IR20/OUTDR\*

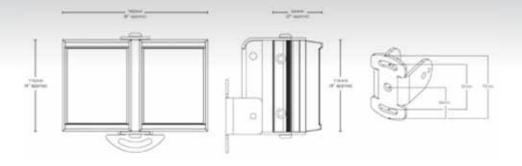
The SNCA-IR20/OUTDR Infra-Red illuminator is designed to work in conjunction with B&W or Day and Night Cameras for short range applications, includes PSU with photocell.



### Features and Benefits

### Adaptive Illumination<sup>™</sup>

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



Model	Description	Key features	Operating Voltage	Power Consumption	Operating Temperature	Dimensions	Weight	IP Rating	Colour
SNCA-IR40/ OUTDR	IR light outdoor (850nm)	40m range, 30-60° spread	100-240V AC auto-sensing	20W max	-50°C to +50°C	160 x 115 x 54mm	1.7kg	IP66	Black

## 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	
	<ul> <li>Adaptive Illumination<sup>™</sup></li> </ul>	
	Surface Mount LED Technology	in the second
	Active LED Life Control	- the still and
6)	Vandal Resistant	
1	Low Running Cost	
- and	5 Year Warranty	
	• max 100m range	
	• 50-180° spread	- CALLER ST

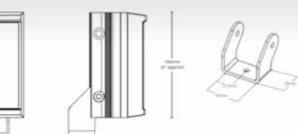
Model	Description	Key features	Operating Voltage	IP Rating	Colour
SNCA-IR80/OUTDR	IR light for PTZ		100-240V AC auto-sensing	IP66	Black

These products are manufactured by Raytec

The second

Dimensions





Model	Description	Key features	Operating Voltage	IP Rating	Colour
SNCA-IR20/OUTDR	IR light outdoor 20m	20m range, 30° spread	12/24V AC/DC	IP66	Black

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\*These products are manufactured by Raytec

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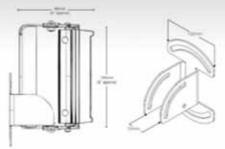


### Dimensions



### Dimensions





### VIDEO SECURITY

ACCESSORIES - LIGHTIN

## 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.



### VIDEO SECURITY

ACCESSORIES - AUDIO

## SCA-M30

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

### 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

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ō	

Dimensions

Model	Description	Key features	Operating Voltage	IP Rating	Colour
SNCA-WL15/OUTDR	White light outdoor 15m	15m range	12/24V AC/DC	IP66	Silver

### VIDEO SECURITY

ACCESSORIES - NETWORK CONNECTIVITY

## 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
1/10	SNCA-CFW1	Wireless CF LAN card	SNC-CS50P (SNCA-CFADAPT req'd) SNC-R250P (SNCA-CFADAPT req'd) SNC-R225P SNC-R225P SNC-P5	11 Mio/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			
MT.	SNCA-CFADAPT**	CF to PCMCIA adaptor	SNCA-CFW1 SNCA-CFW5	Powered by the connecting device	-20°C to 60°C	N/A

### 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

## 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



\*This product is manufactured by Raytec \*\*This product is manufactured by Jactron Ltd

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### 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



	-
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-R584P, SNC-R584N, SNC-RH164, SNC-CH140, SNC-R544N, SNC-R544P, SNC-R546N, SNC-R546P, SNC-RH124

ACCESSORIES - MISC

## 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.



VIDEO SECURITY ACCESSORIES - MISC

Features and Benefits

Acrylic construction

SNCA-TINTED

Model

SNCA-TINTED

SNCA-TINTED/2

## SNCA-TINTED\* Tinted Replacement capsule for SNCA-HRZ25 & SNCA-HRZ30.

## SNCA-TINTED/2\*

Description

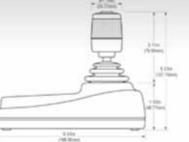
Tinted dome

Tinted dome,

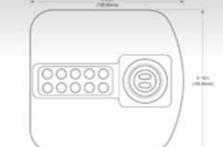
new 7" version

Tinted replacement capsule for Sony 7" dome housings.

- 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)	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	$Vdd = 5V \pm .5V$	32mA	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			Optional accessories	Colour	Approx. Dimensions
SNCA-HEATER	Heater blower kit		Extends lower operating temperature of housing/ device by 15°C		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-CLEAR\* Clear replacement capsule for SNCA-HRZ25 & SNCA-HRZ30.

Rating

N/A

N/A

## SNCA-CLEAR/2\*

Clear replacement capsule for Sony 7" dome housings.

### Features and Benefits SNCA-CLEAR SNCA-CLEAR/2 Acrylic construction 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/EXT/R SNCA-HRX550/EXT/R SNCA-HRZ50/EXT/R SNCA-HRZ50/EXT/W SNCA-HRZ50/EXT/W SNCA-HRZ50/EXT/R	SNCA-RX550EXT12V	Clear	7" (17.78cm) Diameter

\*These products are manufactured by Videolarm

\*This product is manufactured by CH Product \*\*These products are manufactured by Videolarm

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### Polycarbonate construction

N/A

N/A

SNCA-TINTED/2

Operating temperature

N/A

N/A

ting ge	Applicable Camera Models	Optional accessories	Colour	Approx. Dimensions
Δ.	SNCA-HRZ25 SNCA-HRZ30	N/A	Tinted	8" (20.32cm) Diameter
Λ.	SNCA-HRX550/EXT SNCA-HRX550/EXT/W SNCA-HRX550/INT SNCA-HRX550/EXT/RE SNCA-HRX50/EXT/RE SNCA-HRZ50/EXT/W SNCA-HRZ50/INT SNCA-HRZ50/INT SNCA-HRZ50/EXT/R	SNCA-RX550EXT12V	Tinted	7" (17.78cm) Diameter



ACCESSORIES

## Compatibility Tables

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

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			-	0 0	4 2	D C C			EXT	SNCA-HRZ50/EXT/W	SNCA-HRZ550/EXT	DEXT 12	HRX550EXT/W	J/NT	SNCA-HFIXSML/230	1/24 3/230	SNCA-HFIXSTD/24				BOX	WM bro				PT	VCA-ANI)	A-POLE3	()			15		ICPTZ/C	CPTZ/T	ç	40	1	31/T10PC
	VT-ICB124	SNCA-ICPTZ/C SNCA-ICPTZ/T	VT-ICB1 40 SNCA-WMMD1	SNCA-WMMD2 SNCA-WMMD3	CA-WMMD4	UNI-XBS1/T10PC SNCA-WMFIX10F	P5 10S	80 RZ25	SNCA-HRZ50/EX1	RZ50/	SNCA-HRX550/E	RX550	RX55(	SNCA-HRX550/PRE SNCA-HRX550/INT	FIXSN.	FIXSIV	FIXSTC	1/212	SNCA-PS24/1	-PS24/4	POWER	DE1	OE6	L El	FW5	-CFADAI		and with SNCAF	/M206			Ē		4CA	NCA-IC		FICB140		UNI-XBB1
ICB45	ICB1	CA-IC	CA-W	CA-W CA-W	CA-W	II-XBS1	SNCA-HP5 UNI-LD110S	II-LD280 CA-HRZ2	CA-H	U H-H-	UA-H	SNCA-H		CA-H	CA-H	CA-H	CA-HI	UNI-BBB1 SNCA-PS	CA-P	SNCA-PS	CA-PC	(diways with SNC SNCA-POE 1	SNCA-POE6	CA-H	SNCA-CFWI SNCA-CFWE	O A O			CA-W	Box-type cameras		Ż		S	Ś	5	, ,		5
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SNCA-HRX550/EXT	SNCA-HRX550EXT12V	SNCA-HRX550EXT/R	SNCA-HRX550EXT/W	SNCA-HRX550/PRE	SNCA-HRX550/INT	SNCA-HFIXSML/230	SNCA-HFIXSML/24	SNCA-HFIXSTD/230	SNCA-HFIXSTD/24	SNCA-CFW1	SNCA-CFW5	SNCA-CW5 (dways with SNCA-AN1)	SNCA-CEILING (sempre con SNCAPOLE30)	SNCA-POLE30	SNCA-WM20G	SNCA-WM20FC	SNCA-WM30G	SNCA-WM40
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