Designed for security.

Sony Professional
Video Security
Product Catalogue.

VERSION 2

SONY

ANALOGUE

GO HYBRID

IP SOLUTIONS

Contents

Time to GO Hybrid

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

- **Go Migrate**
  Migrate from analogue to IP with hybrid recording solutions.

- **Go Advance**
  Advance your capabilities. Forward thinkers use the number one software choice.

- **Go Capture**
  You can capture everthing with Sony Professional surveillance cameras.

- **Go Convert**
  Convert your video security network with intelligent encoder solutions.

The future of video security is here.

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

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

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

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

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

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

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

IPELA – harnessing the power of IP.

IPELA is Sony Professional's vision of the ultimate workplace, revolutionising the way businesses communicate over global IP networks

IPELA

Why IPELA?

As global broadband networks have rapidly expanded, businesses are now able to communicate in real-time, person-to-person, location-to-location. Now Sony Professional is driving the future of business communications with our IPELA series of visual communications products – preparing your customers for the future.

Our IPELA visual communication products deliver high-resolution images with naturally clear audio – at a quality that has never been previously achieved. Each new system introduced by Sony Professional, conforms to our three-pronged IPELA concept: reality, intelligence and usability.

Reality

Your clients can improve the efficiency of their security via high-quality video surveillance products. IPELA will enable them to get a clearer picture of crucial events and will cut-down false alarms and time spent searching through footage.

Intelligence

Our IPELA products incorporate technology such as visual recognition, intelligent detection methods, robust processing techniques and advanced search capabilities. They enhance the operator's surveillance and monitoring capabilities, allowing greater concentration on the business at hand.

Usability

With easy to use controls and intuitive graphical user interfaces, as well as the flexibility to meet individual user requirements, IPELA products minimise the learning curve – saving your clients time and money and improving results from day one.

DEPA – making intelligence work harder.

Sony Professional's Distributed Enhanced Processing Architecture (DEPA™) platform revolutionises surveillance monitoring for almost any application.

Taking surveillance to the next level

Our complete IP surveillance solution, Sony Professional's Distributed Enhanced Processing Architecture (DEPA™) platform, incorporates Intelligent video analytics to help your customers identify critical events. Unlike conventional monitoring solutions, DEPA systems provide enhanced intelligence to help surveillance operators take quick action and provide streamlined workflows.

Intelligent alarm triggers improve performance

With triggers designed to spot motion, DEPA-enabled surveillance equipment assists security staff in seeing crucial events in real-time.

The Intelligent Motion Detection and Intelligent Object Detection functions can be used alongside parameters set by the user. An alarm will be triggered when a virtual line is crossed or an object is moved from a specific location. This feature can also count how many objects enter a predetermined area, calculate an object's size, determine the direction in which something is moving, and gauge its speed. These movement filters can dramatically minimise false alarms and target real alarms, so improving surveillance efficiency.

The filters can also be used to quickly and effectively retrieve images, cutting down searching times. For example, virtual areas can be set to search for items that have been removed or stolen, or the system can immediately retrieve footage of a vehicle moving the wrong way along a one-way street.

Intelligent processing enhances efficiency

Unlike units that use separate image processing and costly software, Sony Professional's DEPA design divides traditional processing into two tasks. Front-end processing is distributed to the endpoints of systems within cameras, while back-end processing takes place at the recorder.
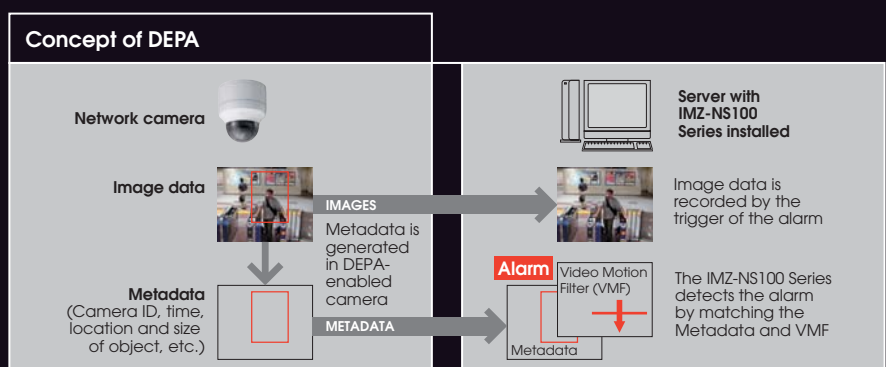
Front-end processing:
- Distinguishes objects from environmental noise
- Detects moving and/or stationary objects
- Converts object information into metadata and then transfers it over the network separately from the digital video stream

Back-end processing:
- Receives and stores pre-processed object data from cameras
- Extracts objects which match the filtering conditions set in the recorder
- Displays information and creates an alarm response appropriate to specific conditions

Intelligent recording minimises storage and network resources

Users can also choose to stream and record only the events that cause concern when alarms are activated – therefore streamlining storage and conserving network resources. And because DEPA divides up the analytic tasks between cameras and recorders, the amount of video data transmitted from the camera is reduced. Together with the reduction in the storage capacity, this creates a far more stable and efficient system in comparison to conventional surveillance.

Concept of DEPA

Network camera

Image data

IMAGES

Metadata is generated in DEPA-enabled camera

Metadata
(Camera ID, time, location and size of object, etc.)

METADATA

Server with IMZ-NS100 Series installed

Image data is recorded by the trigger of the alarm

Alarm Video Motion Filter (VMF)

Metadata

The IMZ-NS100 Series detects the alarm by matching the Metadata and VMF

≋ Exwave PRO™ – enhanced image performance.

Image performance is now significantly enhanced with Sony Professional's innovative ExwavePRO™ technology, unique to our fourth generation IP cameras.

Minimising motion blur, enhancing clarity

Sony is a world-leader in the design and manufacture of CCD (charge-coupled device) and CMOS (complimentary metal-oxide semiconductor) imaging devices.

At the heart of our new ExwavePRO™ technology is an all-new CCD design – specifically developed to meet the requirements of security applications. Until now, CCD technology had only been used with interlaced scanning CCDs (typically designed for use in camcorders), to capture fast movement at a relatively high resolution.

For security applications, however, motion blur can be a problem, with the details of people or objects becoming difficult to make out on an interlaced image.

ExwavePRO™ CCDs use progressive scan technology – every frame of video is captured at full resolution with no interlacing. When trying to read the details of a number plate on a fast-moving car, progressive scan technology effectively doubles the vertical resolution of the image being analysed, giving clear, precise results.

High sensitivity for low-light conditions

In addition, our ExwavePRO™ also uses a new Complementary Colour Filter technology that results in approximately twice as much light reaching the CCD.

This produces a normal looking video output, but the higher luminance signal-to-noise ratio results in an image that can be twice as bright as one produced using a Primary Colour Filter – ideal for clear results in low light conditions.

ExwavePRO™ technology is a key feature of all of Sony Professional's fourth generation IP cameras. The introduction of this technology, alongside our equally innovative Light Funnel system, means our security cameras deliver a higher resolution imaging performance than ever before.

Conventional camera in low-light conditions

ExwavePRO in low-light conditions

Megapixel technology for true versatility.

From surveillance and wide area monitoring, to identification and response, Sony Professional Megapixel cameras will give your clients' security teams confidence in difficult conditions.

The ideal combination of resolution and storage

At 1.3 Megapixel resolution, our digital lenses provide the detail and image quality you need without creating prohibitive file sizes.

This resolution is ideal for clear identification of faces, detail on clothing, or vehicle registration plates. It also provides the depth of information you may need for analysis of events. At the same time, at 1.3 Megapixels, data is kept to a manageable size for efficient network transmission and storage.

Megapixel features

Our Megapixel surveillance range includes indoor and outdoor cameras to meet virtually any application.

Features include:
- enhanced zoom lenses
- viewing angles of over 100 degrees
- automatic day to night modes
- vandal-resistant housing
- patented ball-joint lens mount mechanisms

Sony Professional Megapixel cameras are being installed in corporate, retail, education, airport, stadium and public applications.

1.3 Megapixel resolution
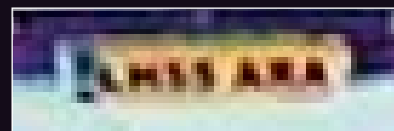
VGA resolution

▼ Light Funnel technology for increased sensitivity.

Our Light Funnel technology leads the way in 24/7 surveillance monitoring, enabling enhanced camera sensitivity in low-light conditions.

Designed for low-light

The Light Funnel function enhances camera sensitivity in low-light conditions. When applied, it combines two pixels horizontally and two pixels vertically to create up to 4x enhanced sensitivity. As a result, the sensor converts a greater amount of light energy into more electrons to produce a stronger electrical signal.

Conventional technologies often use slow shutter speeds to achieve higher sensitivity, which leads to blurring and reduced accuracy. Sony Light Funnel function retains crisp images even when used at night.

Automatic response

This function can be activated automatically in response to the light conditions, or on a pre-specified time schedule, allowing operators to monitor moving objects at dusk without manually changing settings.

This increased sensitivity with exceptional clarity lends itself to 24/7 exterior locations, from business perimeters, car parks and city streets to nightclub entrances, vandalism hot-spots and transport hubs.

ON

OFF

👁 DynaView™ technology delivers a wider range.

Incorporating the newly developed DynaView™ technology, Sony Professional surveillance cameras offer an extremely wide dynamic range allowing clearer images to be captured.

SNC-DF85/DF50 Camera Image*

High Shutter Speed

Normal Shutter Speed

In comparison to the human eye, the dynamic range of a camera is very limited. The difference between the smallest and largest amount of light that can be transformed into a viewable video signal is relatively small – even in the highest-performing cameras – until the advent of Wide Dynamic Range.

Sony Professional's DynaView™ introduces Wide Dynamic Range to surveillance cameras, bringing video security range closer to the capabilities of the human eye.

DynaView™ technology

DynaView™ improves a normal camera's dynamic range by over 128 times, which is perfect for security and surveillance applications where lighting conditions change over time. The technology uses an advanced Backlight Compensation function that reduces overexposure of the background image and so provides optimum exposure for both the background and the subject.

In DynaView™ mode, the image is captured twice: the dark areas of the shot are picked up with the normal shutter speed, and the brighter areas by a higher shutter speed.

Our special DSP LSI technology then combines the two images to create one extremely high contrast picture, which couldn't be obtained on a conventional camera.

For companies that need to monitor indoor areas with changing backlights – such as glass-fronted buildings – DynaView™ cameras will compensate for the difference between inside and out, enabling your clients to benefit from greater detail regardless of lighting conditions.

◪ Dynamic Frame Integration – exceptional picture clarity.

When your customers need to catch moving objects or people on camera, our Dynamic Frame Integration technology can help them see clearer footage.

Reducing the blur

Dynamic Frame Integration (DFI) technology optimises the image acquisition for both stationary and moving image components at the same time. So when number plates need to be recorded or people need to be recognised, this technology can provide the best results.

The DFI technology detects movement within an image and reproduces those areas with minimal blurring.

At the same time, areas with little or no movement are displayed naturally with reduced jagged edges. This provides all the benefits of progressive scan, whilst taking advantage of improved sensitivity.

DFI, combined with the interlaced-scan CCD, can provide clearer images than ever before, even in low light conditions.

SNC-DF85/DF80/DF50 Camera Image

Conventional Camera Image

Image Comparison Between SNC-DF85/DF80/DF50 Camera and a Conventional Camera

⊡ Dual encoding – ideal for fixed and moving images.

With dual-encoding capabilities, our surveillance solutions enable your clients to easily transfer images over the Internet and across networks, without compromising on resolution.

Transferring and storing images

Your clients can transfer and store surveillance images effectively with our dual-encoding technology. Designed for ease of use and to reduce file sizes, dual-encoding cameras support two compression formats: JPEG and MPEG-4.

The JPEG compression format is the industry standard for high-quality still images, while the MPEG-4 format provides clear moving images efficiently over networks with limited bandwidth.

Flexibility to suit your clients' needs

This dual encoding capability enables clients to create, transfer and store protocols to meet their precise needs.

As an example, a Sony Professional system can be set up to transfer MPEG-4 images over a WAN connection or an Internet VPN where network bandwidth is limited. And at the same time, it can store high-resolution JPEG images on a server configured to an organisations LAN.

Local Area Network (LAN)

ROUTER

WAN/VPN

JPEG & MPEG-4 Images

JPEG

MPEG-4

SNC-DF50

IMZ-RS Series Server

Monitoring PC
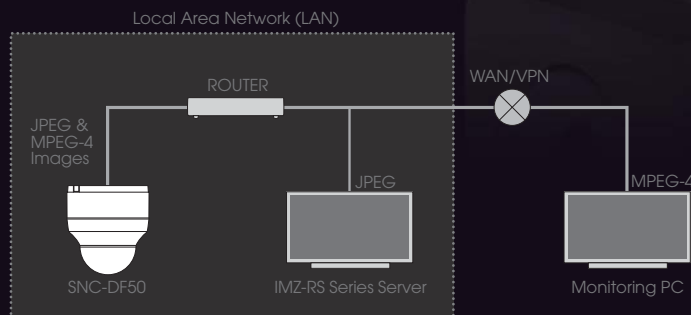
Dual Image Encoding

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

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

Better quality, reduced bandwidth

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

Less bandwidth

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

Reduced storage

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

Improved quality

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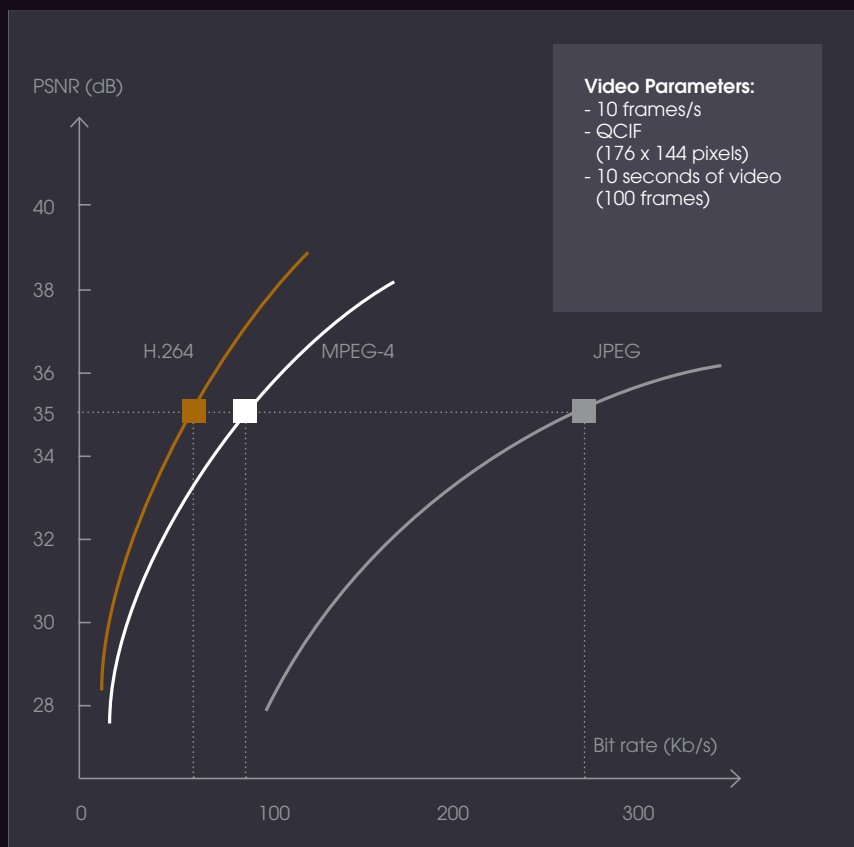
H.264 requires less bandwidth, while delivering better picture quality.

Video Parameters:
- 10 frames/s
- QCIF
  (176 x 144 pixels)
- 10 seconds of video
  (100 frames)

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

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

Automatic prevention and storage capabilities

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

Enhanced performance with DEPA

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

IP66 IP66 – ruggedised cameras for tough applications.

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

Meeting IP66 standard for dust and water ingress

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

Vandal-resistant too

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

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

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

Set up options to suit you

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

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

HD for your security cameras.

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

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

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

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

Additionally the CMOS sensors utilize 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 offer deliver additional enhancements to image quality by utilizing 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 optimizes scene visibility by improving wide dynamic range under conditions of high contrast illumination.

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

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

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

In addition, total flexibility through our Hybrid approach to seamless integration of new and existing video technology and maximum freedom of choice via our participation in the development 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.

XDNR 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 utilizes 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.

ON

OFF
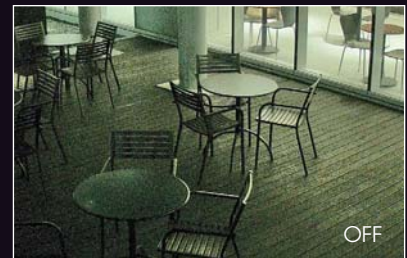
Distributed Enhanced Processing Architecture (DEPA) Advanced.

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

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

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

Introduced in 2006 Sony's unique Distributed Enhanced Processing Architecture (DEPA) addresses this issue with an innovative design approach. SONY DEPA is an embedded technology providing pre processing of image data within its camera technology and post of processing of image data within its recording and monitoring

solutions. Alarm and image meta data generated by the camera is transmitted on demand to the recording solution where appropriate alarm actions may be initiated. This distributed architecture allows for intelligent use of network bandwidth and reduces the bottlenecks associated with existing video analysis systems.

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

Utilizing 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 pre determined 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 pre determined 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.

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

VE Visibility Enhancer (VE).

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

The ability of a camera to deliver optimized 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 optimized 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.

ON

OFF

⬛ Open Network Video Interface Forum (ONVIF).

In recognising cross manufacturing compatibility as the key to wide spread adoption of network video solutions, Sony along with a number of leading manufacturers has 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. Focussing 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 manufactures 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.

👁 Service Guide to Video Security.

Information about the service offerings available.

Service Brands

There are three 'levels' of service within Sony Professional.

Standard Warranty

In general Sony warranty means that products will be free from defects for 1 year from date of purchase. Any defective units are returned to place of purchase where they are repaired either by the dealer, the CSO or through a central repair centre.

PrimeSupport

is used to define a market warranty service. This is a service, which is above warranty but is needed for Sony to enter the market. Like warranty, it is a cost to the business and so needs to be at the minimum level. Also like warranty it applies to all shipped products where it can be delivered.

PrimeSupport Plus

is a new brand which covers chargeable contracts. The service level builds on PrimeSupport and provides services which will be of interest to specific segments of the market.

PrimeSupport Benefits

Extended Duration
Opportunity to extend the service duration
One off payment for 'lifetime' cover

Helpdesk
Central point of contact
Helpdesk calls are free of charge
Multilingual team (5 languages)

Repair and Logistics
Fixed cost of ownership as all costs covered
Your choice of location for the Collect & Deliver Service

Advance Replacement unit
No hassle – a simple swap during on site visit
Minimal downtime
Target of replacement unit is one working day

Using the Services

Before any services can be provided under a PrimeSupport or PrimeSupport plus agreement, the agreement needs to have been registered. See the section 'Registration' for more details.

The helpdesk is central to any PrimeSupport or PrimeSupport plus agreement. The multilingual team (English, French, German, Italian and Spanish) provide advice on functionality and are the first point of contact for any service request. They can also help with any registration queries. If a repair or replacement is needed, they will arrange for the courier to collect the faulty unit and provide a replacement or return the repaired unit. The helpdesk contact number

is 00 800 7898 7898. Please note this is an international free phone number, using **00**800 not the standard **0**800. If you experience problems with this line, an alternative telephone number is 00 44 (0)12526 683854.

Registration

PrimeSupport agreements can be registered online at www.sonybiz.net/primesupport where full terms and conditions can also be found. In order to register PrimeSupport customers must use the agreement pack and enter both the serial number and the security code. If there is no security code on the pack, registration can be done by telephone to the helpdesk and providing proof of purchase.

Note: Mass registration can also be done by contacting the helpdesk separately.

How to Buy

PrimeSupport

PrimeSupport agreements are included with all sales of hardware in the EU, Norway and Switzerland. Separate purchase of these agreements is not required.

PrimeSupport Plus

PrimeSupport Plus contracts must be bought through your usual hardware supplier. The product codes are detailed in the table above. Note: A PrimeSupport agreement can be purchased within the 1 year term of the bundled PrimeSupport.

SNC-P1

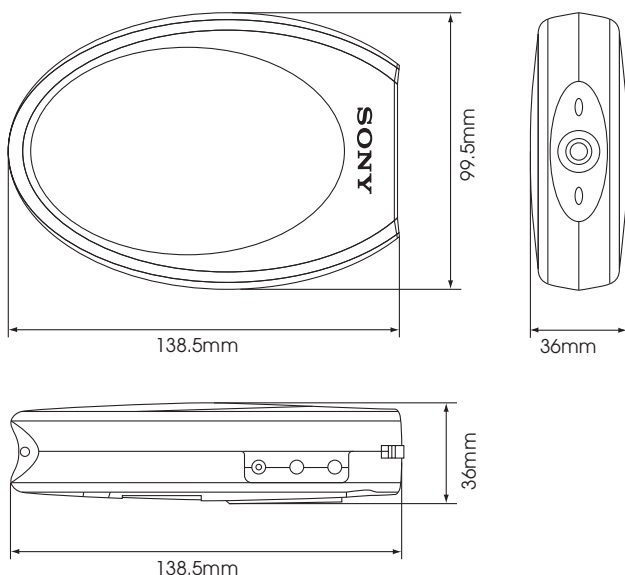Enter the world of IP monitoring with the Sony SNC-P1
MPEG-4/JPEG Network Camera.

Key Features and Benefits

1/4-type progressive scan CCD.
Clear high performance images

Bi-directional audio with built in microphone.
Transmits audio in both directions, in-built
microphone transmits audio from remote site

In-built pre and post alarm image storage.
Allows internal storage of alarm images

Standard Features and Benefits

- **Motion detection alarm trigger.** External alarm
  output form motion triggered alarms

- **JPEG and MPEG-4 compression formats.**
  Allows maximum flexibility for image transmission

Dimensions

138.5mm

99.5mm

36mm

36mm

138.5mm

Specifications

Camera	
Image device	1/4-type progressive scan CCD
Number of effective pixels (HxV)	330,000 (659 x 494)
Electronic shutter	Auto/Manual 1 to 1/10,000 Slow Shutter option On/Off
Auto gain control (AGC)	Auto/Manual
Exposure control	Auto/Shutter priority/ Manual
White balance modes	ATW/Indoor/Outdoor/One push auto/Manual
Lens type	Fixed
Horizontal viewing angle	Horizontal: 53.4°, Vertical: 40.0°
Focal length	f=3.8mm
F-number	F2.0
Minimum object distance	500mm
Image	
Image size (H x V) MPEG-4	640 x 480, 480 x 360, 384 x 288, 320 x 240, 256 x 192, 160 x 120
Image size (H x V) JPEG	640 x 480, 480 x 360, 384 x 288, 320 x 240, 256 x 192, 160 x 120
MPEG-4 frame rate	25fps (320x240), 15fps (640 x 480)
JPEG frame rate	25fps (320x240), 18fps (640 x 480)
Audio	
Audio compression	G.711 (64kbps)/G.726 (40, 32, 24, 16kbps)
Network	
Protocols	TCP/IP, UDP, RTP, RTCP, ARP, ICMP, HTTP, FTP, SMTP, DHCP, DNS, NTP and PPPoE, SNMP
Number of clients	10 (MPEG4), 20 (JPEG)
Interface	
Analogue connectivity	Mini-jack
Ethernet connectivity	100Base-TX/10Base-T (RJ-45)
I/O port connectivity	Sensor in 1, Alarm out 1
Audio connectivity	External Microphone Input: Mini-jack, Plug-in power, 2.2kΩ Unbalanced. Line Output: Mini-jack
Analogue video output	
Video system	PAL/NTSC
Horizontal resolution	400TVL
S/N ratio	48dB
Sensitivity colour	4.7lx (F2.0,50IRE)
General	
Weight	Approx. 225g
Dimensions (W x H x D)	99.5 x 36 x 138.5mm without projection
Power requirements	DC 12V
Power consumption	3.5W
Operating temperature	0 to +35°C (32 to 95°F)
Storage temperature	-20 to 60°C (-4 to 140°F)
System requirements	
Operating system	Microsoft Windows 2000/XP/Vista®
System requirements	Intel® Pentium® IV 3GHz or higher, Intel Core2 Duo, 2GHz or higher. RAM: 1GB or more. Microsoft Internet Explorer Ver. 5.5 or 6.0 or 7.0
Supplied Accessories	
	AC Adaptor (x1), CD-ROM (x1, Setup Program and User's Guide), Stand (x1)

SNC-CS10

Make the move from CCTV to IP-based monitoring with the affordable Sony SNC-CS10.

Key Features and Benefits

Analogue output. Ideal for use when adjusting the camera viewing angle during installation

Dual encoding. Maximum flexibility when streaming video data

Alarm function motion detection and pre/post alarm recording modes. Ideal for interfacing to external alarm devices. Alarm image storage capability

Standard Features and Benefits

- **Sony progressive scan CCDs and advanced DSP technology.** Provides clear and detailed images while maintaining high sensitivity

- **DC Servo Auto Iris Lens capability.** Ideal for both outdoor and indoor use

- **Compact and slim design.** Fits 8-inch camera housings

- **Variety of power options AC 24V, DC 12V.**

- **Five preset JPEG picture quality settings with constant bitrate algorithm.** Limits data bitrate while maintaining high-quality images, ideal when network bandwidth is limited, useful for calculating storage capacity and the required bandwidth during installation

- **Privacy masking.** Ideal for masking sensitive areas of the video image

Dimensions

70mm   57mm   66.3mm

116mm   5.9mm

Specifications

Camera	
Image device	1/4-type Progressive Scan CCD
Number of effective pixels (HxV)	330,000 (659 x 494)
Electronic shutter	Auto/Manual Slow Shutter ON/OFF
Auto gain control (AGC)	Auto/Manual (-3dB to +28dB)
Exposure control	Auto Iris Lens/Manual Iris Lens
White balance modes	ATW/Tungsten bulb/Daylight/One-push auto/Manual
Lens mount	CS Mount
Image	
Image size (H x V) MPEG-4	640 x 480, 480 x 360, 384 x 288, 320 x 240, 256 x 192, 160 x 120
Image size (H x V) JPEG	640 x 480, 480 x 360, 384 x 288, 320 x 240, 256 x 192, 160 x 120
MPEG-4 frame rate	25fps (320x240), 15fps (640 x 480)
JPEG frame rate	25fps (320x240), 18fps (640 x 480)
Audio	
Audio compression	G.711 (64kbps)/ G.726 (40, 32, 24, 16kbps)
Network	
Protocols	TCP/IP, UDP, RTP, RTCP, ARP, ICMP, HTTP, FTP, SMTP, DHCP, DNS, NTP and PPPoE, SNMP (MIB2)
Number of clients	10 (MPEG4), 20 (JPEG)
Authentication	IEEE802.1X
Interface	
Analogue connectivity	Analogue video output BNC x1, 1.0Vp-p, 75Ω
Ethernet connectivity	10 Base-T/100Base-TX (RJ-45)
I/O port connectivity	Sensor in x 1, Alarm out x 1
Audio connectivity	External microphone input - Mini-jack (monaural, 2.2K 2.5V plug-in power).
Analogue video output	
Video system	NTSC/PAL (Composite)
Horizontal resolution	400 TV lines
S/N ratio	More than 48dB
Sensitivity colour	1.7lx (50IRE, F1.0, AGC ON)
General	
Weight	Approx. 480g
Dimensions (W x H x D)	70 x 57 x 116mm
Power requirements	AC 24V/DC 12V
Power consumption	5.7W max.
Operating temperature	-10 to 50°C (14 to 122°F)
Storage temperature	-20 to 60°C (-4 to 140°F)
System requirements	
Operating system	Microsoft Windows 2000/XP/Vista®
System requirements	Intel® Pentium® IV 3GHz or higher, Intel Core2 Duo, 2GHz or higher. RAM: 1GB or more. Microsoft Internet Explorer Ver. 5.5 or 6.0 or 7.0
Supplied Accessories	
	Screw, Wire Rope, CD-Rom (User's Guide, IP Setup Program, SNC Audio Upload Tool, SNC Video Player, Customer Homepage Installer), Installation Manual, Warranty Booklet, Warranty Sheet, AC Cable.

SNC-CS11

Make the move from CCTV to IP-based monitoring
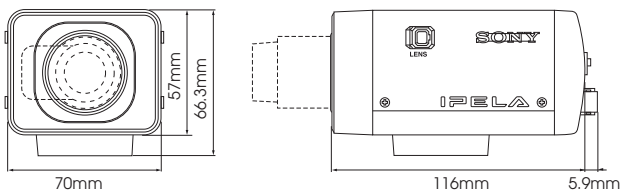with the affordable Sony SNC-CS11.

Key Features and Benefits

Analogue Video Output. Ideal for use when adjusting the camera viewing angle during installation

Dual encoding. Maximum flexibility when streaming video data

Alarm function. Motion detection and pre/post alarm recording modes

Bi-directional audio function. Allows remote transmission of audio in both directions

Standard Features and Benefits

- **Five preset JPEG picture-quality settings with constant bitrate algorithm.** Limits data bitrate while maintaining high-quality images, ideal when network bandwidth is limited, useful for calculating storage capacity and the required bandwidth during installation

- **Aspherical vari-focal lens.** Eliminates spherical aberration and minimizes wide-angle distortion

- **Power over ethernet.** Allows remote transmission of power by utilising installed ethernet cable, thus reducing the amount of cable and associated costs on site

Dimensions

57mm
66.3mm
70mm
116mm
5.9mm

Specifications

Camera	
Image device	1/4-type Progressive Scan CCD
Number of effective pixels (HxV)	330,000 (659 x 494)
Electronic shutter	Auto/Manual, Slow shutter ON/OFF
Auto gain control (AGC)	(-3dB to +28dB)
Exposure control	Auto Iris Lens/Manual Iris Lens
White balance modes	ATW/Indoor/Outdoor/One-push auto/Manual
Lens type	Vari-focal zoom lens
Lens mount	CS Mount
Horizontal viewing angle	27° to 66°
Focal length	f=3.0 to 8.0mm (F1.0 to F1.4)
F-number	F1.0 (wide), F1.4 (tele)
Image	
Image size (H x V) MPEG-4	640 x 480, 480 x 360, 384 x 288, 320 x 240, 256 x 192, 160 x 120
Image size (H x V) JPEG	640 x 480, 480 x 360, 384 x 288, 320 x 240, 256 x 192, 160 x 120
MPEG-4 frame rate	25fps (320x240), 15fps (640 x 480)
JPEG frame rate	25fps (320x240), 18fps (640 x 480)
Audio	
Audio compression	G.711 (64kbps)/ G.726 (40, 32, 24, 16kbps)
Network	
Protocols	TCP/IP, HTTP, ARP, ICMP, FTP, SMTP, DHCP, SNMP(MIB2), DNS, NTP, RTP/RTCP, PPPoE
Number of clients	10 (MPEG4), 20 (JPEG)
Interface	
Analogue connectivity	BNC x1, 1.0Vp-p, 75Ω
Ethernet connectivity	10Base-T/100Base-TX (RJ-45)
I/O port connectivity	Sensor in x1, Alarm out x1
Audio connectivity	External microphone input - Mini-jack (monaural, 2.2K 2.5V plug-in power). Audio line output - Mini-jack (monaural), max output level: 1Vrms
Analogue video output	
Video system	NTSC/PAL
Horizontal resolution	400 TV lines
S/N ratio	More than 48dB
Sensitivity colour	1.7lx (50IRE, F1.0, AGC ON)
General	
Zoom ratio	x2.7 optical zoom
Weight	Approx. 525 g
Dimensions (W x H x D)	70 x 57 x 116mm
Power requirements	AC 24V/DC 12V/PoE
Power consumption	5.7W max.
Operating temperature	-10 to 50°C (14 to 122°F)
Storage temperature	-20 to 60°C (-4 to 140°F)
System requirements	
Operating system	Microsoft Windows 2000/XP/Vista®
System requirements	Intel® Pentium® IV 3GHz or higher, Intel Core2 Duo, 2GHz or higher. RAM: 1GB or more. Microsoft Internet Explorer Ver. 5.5 or 6.0 or 7.0
Supplied Accessories	
	CS-Mount Vari Focal Lens (SNC-CS11 only), Screw, Wire Rope, CD-Rom (User's Guide, IP Setup Program, SNC Audio Upload Tool, SNC Video Player, Customer Homepage Installer), Installation Manual, Warranty Booklet, Warranty Sheet, AC Cable.

SNC-CS20

Compact and slim surveillance network camera providing excellent sensitivity and high resolution with an advanced progressive scan CCD based on ExwavePRO™ technology.

Key Features and Benefits

1/4-type Progressive Scan CCD with ExwavePRO™ technology. The SNC-CS20 camera inherits the technical advantages of Sony ExwaveHAD™ technology, while incorporating advanced progressive scanning and complementary colour filters to provide extremely high sensitivity levels and clear and crisp images in both day and night environments

Dual encoding. Maximum flexibility when streaming video data

Day/night function. Ideal for mono switching in night mode

Bi-directional audio function. Audio transmission available in both directions

Analogue Video Output. Ideal for use when adjusting the camera viewing angle during installation

Standard Features and Benefits

- **Compact and slim design inherited from CCTV cameras.** Fits 8-inch camera housings
- **DC Servo IR Auto Iris Lens capability.** Ideal for both indoor and outdoor use
- **Slow shutter mode.** Ideal for low light conditions
- **Sensor in/alarm.** Camera will access alarm inputs and alarm oututs via external equipment
- **DEPA compatible.** Powerful video analytic and motion detection capability

Dimensions

82.5mm
41.2mm   135mm
62mm
63mm
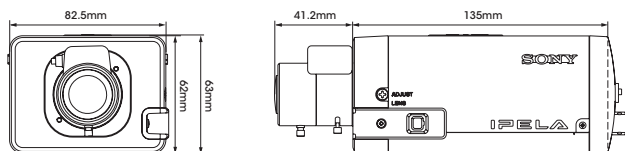
Specifications

Camera	
Image device	1/4 type VGA CCD with ExwavePRO technology
Number of total pixels	350,000
Number of effective pixels (HxV)	330,000 (659 x 494)
Electronic shutter	1 to 1/10,000s
Auto gain control (AGC)	Auto/Manual (0db to +36dB)
Exposure control	Auto, BLC, Gamma correction
White balance modes	ATW, ATW-PRO
Lens type	Vari-focal lens
Horizontal viewing angle	66° to 27°
Focal length	f=3.0 to 8.0mm
F-number	F1.0 (wide), F1.45 (tele)
Minimum object distance	200mm
Image	
Image size (H x V) MPEG-4	640 x 480, 384 x 288, 320 x 240
Image size (H x V) JPEG	768 x 576, 640 x 480, 384 x 288, 320 x 240
MPEG-4 frame rate	25fps (640 x 480)
JPEG frame rate	25fps (768 x 576)
Audio	
Audio compression	G.711 /G. 726 (40, 32, 24, 16kbps)
Network	
Protocols	TCP/IP, ARP, ICMP, HTTP, FTP(client/server), SMTP, DHCP, DNS, NTP, RTP/RTCP, SNMP
Number of clients	10
Authentication	IEEE802.1X
Interface	
Analogue connectivity	BNC xl, 1.0Vp-p, 75Ω, RCA x 1
Ethernet connectivity	10Base-T/100Base-TX (RJ-45)
I/O port connectivity	Sensor in 1 Alarm out 2
Audio connectivity	External Microphone Input: Mini-jack (monaural, 2.2K 2.5V plug-in power). Line Output: Mini-jack (monaural), max output level: 1Vrms
Analogue video output	
Video system	PAL
Horizontal resolution	400 TV lines
S/N ratio	More than 50dB
Sensitivity colour	0.15lx (50IRE, F1.3, ACG 36dB)
Sensitivity monochrome	0.021lx (50IRE, F1.0, AGC ON 36dB)
General	
Zoom ratio	x2.7 optical zoom (x2 digital zoom)
Weight	Approx. 700g
Dimensions (W x H x D)	82.5 x 63 x 176.2mm including lens
Power requirements	AC 24V, DC 12V, PoE
Power consumption	8W max.
Operating temperature	-10 to 50°C
Storage temperature	-20 to 60°C (-4 to 140°F)
System requirements	
Operating system	Microsoft Windows XP/Vista®
System requirements	Intel® Pentium® IV 3GHz or higher, Intel Core2 Duo, 2GHz or higher. RAM: 1GB or more
Supplied Accessories	
	CD-ROM (User's Guide, IP Setup Program, Audio Upload Tool, Privacy Masking Tool, Video Player, Custom Homepage Installer, Easy Setup Guide), Installation Manual, Wire Rope

DEPA

SNC-CM120

Designed for security: the first-ever fixed Sony megapixel network camera delivers excellent sensitivity and 1.3 megapixel resolution with an advanced progressive scan CCD employing ExwavePRO™ technology.

Key Features and Benefits

1/3-type Progressive Scan CCD with ExwavePRO™ technology. High sensitivity levels and clear, crisp images in both day and night environments

1.3 Megapixel. High resolution images

Dual encoding. Maximum flexibility when streaming video data

Light funnel function. Unique function enables usable images at very low light

Solid PTZ. Electronic pan, tilt and zoom capability

Day/night function. Ideal for mechanical mono switching in night mode.

Analogue video output. Ideal for setting up of image during installation

Standard Features and Benefits

- **High frame rate.** Full frame rate available
- **Cropping function.** Enables flexible viewing for required images
- **DEPA compatible.** Can be used with advanced video analytics and intelligent VMD
- **Privacy masking.** Ideal for masking sensitive areas of the video image
- **Power over ethernet.** Allows remote transmission of power by utilising installed ethernet cable, thus reducing the amount of cable and associated costs on site

Dimensions
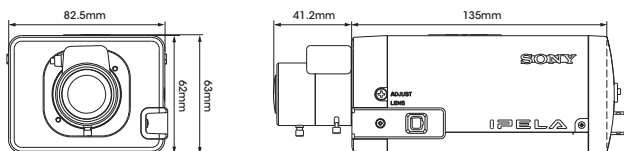
Specifications

Camera	
Image device	1/3-type Progressive Scan CCD with ExwavePRO Technology
Number of total pixels	1,320,000
Number of effective pixels (HxV)	1,250,000 (1,296 x 966)
Electronic shutter	1 to 1/10,000s
Auto gain control (AGC)	On/Off (0dB to +36dB)
Exposure control	Auto, Backlight compensation, Gamma settings
White balance modes	Modes ATW, ATW Pro
Lens type	Vari-focal zoom lens
Lens mount	CS Mount
Horizontal viewing angle	100.7 to 47°
Focal length	f=2.8 to 6.0mm
F-number	F1.3 (wide), F1.9 (tele)
Minimum object distance	300mm
Image	
Image size (H x V) MPEG-4	640 x 480, 384 x 288, 320 x 240
Image size (H x V) JPEG	1280 x 960, 960 x 720, 768 x 576, 640 x 480, 384 x 288, 320 x 240
MPEG-4 frame rate	15fps (640 x 480 / Light Funnel OFF), 25fps (640 x 480 / Light Funnel ON)
JPEG frame rate	15fps (1280 x 960 / Light Funnel OFF), 25fps (640 x 480 / Light Funnel ON)
Audio	
Audio compression	G.711 (64kbps)/G.726 (40, 32, 24, 16kbps)
Network	
Protocols	TCP/IP, ARP, ICMP, HTTP, FTP, SMTP, DHCP, DNS, NTP, RTP/RTCP, SNMP
Number of clients	10
Authentication	IEEE802.1X
Interface	
Analogue connectivity	BNC x1, 1.0Vp-p, 75Ω
Ethernet connectivity	10Base-T/100BASE-TX (RJ-45)
I/O port connectivity	Sensor in x 1, Alarm out x 2
Audio connectivity	External microphone input/ Mini-jack x1 (Mic in: monaural, 2.2K 2.5VDC plug-in power, Line in: monaural) Line input
Analogue video output	
Video system	NTSC/PAL
Horizontal resolution	600 TV lines
S/N ratio	More than 50dB (AGC OFF, Weight ON)
Sensitivity colour	0.15lx (50IRE, F1.3, ACG 36dB). 0.1lx (Light Funnel ON, 50IRE, F1.3, AGC ON 36dB)
Sensitivity monochrome	0.01lx (50IRE, F1.3, AGC ON 30dB). 0.01lx (Light Funnel ON, 50IRE, F1.3, AGC ON 36dB)
General	
Zoom ratio	x2.1 optical zoom (x2 digital zoom)
Weight	700g (1lb 9oz)
Dimensions (W x H x D)	82.5 x 63 x 187.5mm including Lens
Power requirements	PoE (IEEE-802.3 af) AC 24V/DC 12V
Power consumption	8.0W
Operating temperature	0 to 50°C (32 to 122°F)
Storage temperature	-20 to 60°C (-4 to 140°F)
System requirements	
Operating system	Windows Vista®, Microsoft Windows XP
System requirements	Intel® Pentium® IV 3GHz or higher, Intel Core 2 Duo 2GHz or higher. Memory 1GB or more
Supplied Accessories	
	CD-ROM (User's Guide, IP Setup Program, Audio Upload Tool, Privacy Masking Tool, Video Player, Custom Homepage Installer, Easy Setup Guide), Installation Manual, Wire Rope

82.5mm | 62mm | 63mm | 41.2mm | 135mm

SNC-CS50P

The Sony SNC-CS50P network camera - an easy to operate, high-performance colour IP network camera that takes remote monitoring to the next level.
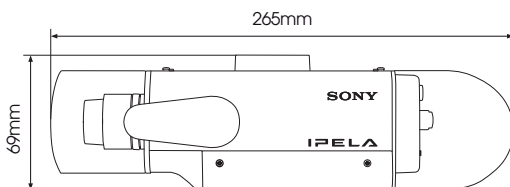
Key Features and Benefits

- **1/3-type SuperExwave™ CCD.** High resolution images with superior sensitivity
- **Day/night function.** Ideal for mechanical switching to monochrome in night conditions
- **JPEG, MPEG-4 and H.264 streaming.** JPEG, MPEG-4, H.264 encoding allows maximum image transmission flexibility
- **Bi-directional audio function.** Audio may be transmitted in both directions
- **Analogue video output.** Ideal for setting up of image during installation
- **Multiple alarm functions.** Allows for intelligent motion detection, pre alarm recording and triggering via external devices

Standard Features and Benefits

- **Image stabiliser.** Reduces image shake in unstable camera mounting conditions
- **Vari-focal lens.** Allows flexible image viewing
- **Accessory expansion slot.** External image storage accessories available
- **Privacy masking.** Ideal for masking sensitive areas of the video image

Dimensions

265mm

69mm

SONY

IPELA

Specifications

Camera	
Image device	1/3-type SuperExwave CCD
Number of effective pixels (HxV)	440,000
Electronic shutter	1/50 to 1 /10,000s
Auto gain control (AGC)	Auto/Manual (-3 to +24dB)
Exposure control	Auto/ Manual/ EV Compensation/ Backlight Compensation
White balance modes	ATW, ATW Pro, One-push
Lens type	Vari-focal Zoom Lens
Lens mount	CS Mount
Horizontal viewing angle	94° to 35°
Focal length	f=2.9 to 8.0mm
F-number	F0.95 (Wide) to Fl.6 (Tele)
Minimum object distance	300mm
Image	
Image size (H x V) MPEG-4	640 x 480 (VGA), 320 x 240 (QVGA), 160 x 120 (QQVGA), 704 x 576
Image size (H x V) JPEG	640 x 480 (VGA), 320 x 240 (QVGA), 160 x 120 (QQVGA), 704 x 576
MPEG-4 frame rate	25fps (640 x 480)
JPEG frame rate	25fps (640 x 480)
H.264 frame rate	8fps (640 x 480), 25fps (320 x 240)
Audio	
Audio compression	G.711 (64kbps)/ G.726 (40, 32, 24, 16kbps)
Network	
Protocols	TCP/IP, HTTP, ARP, ICMP, DHCP, FTP, DNS, NTP and SNMP (MIB-2), RTP/RTCP, RTSP
Number of clients	20
Authentication	IEEE802.1X
Interface	
Analogue connectivity	Analogue video output BNC x1, 1.0Vp-p, 75Ω
Ethernet connectivity	10Base-T/1 00Base-TX (RJ45)
I/O port connectivity	Sensor in 2, Alarm out 2
Audio connectivity	External Microphone Input: Mini-Jack (monaural, 2.2K, 2.5V plug-in power). Line Output: Mini-Jack (monaural), max output level: 1Vrms
Analogue video output	
Video system	PAL
Horizontal resolution	540 TV lines
S/N ratio	50dB or more
Sensitivity colour	0.4lx (F0.95, 50IRE, AGC ON)
Sensitivity monochrome	0.04lx (F0.95, 50IRE, AGC ON)
General	
Zoom ratio	x2.7 optical zoom
Weight	750 g excl. cover equipment, 880g incl.
Dimensions (W x H x D)	84 x 69 x 196mm excl. cover equipment, 84 x 69 x 265mm incl. cover equipment
Power requirements	AC 24V, DC 12V. PoE
Power consumption	9W max. (AC 24V)
Operating temperature	0 to 50°C (32 to 122°F)
Storage temperature	-40 to 60°C (-40 to 140°F)
System requirements	
Operating system	Microsoft Windows 2000/XP/Vista®
System requirements	Intel® Pentium® IV 3GHz or higher, Intel Core2 Duo, 2GHz or higher. RAM: 1GB or more. Microsoft Internet Explorer Ver. 5.5 or 6.0 or 7.0
Supplied Accessories	
	CD-ROM (Setup Program and User's Guide), Wire Rope, Shoulder Screw M4, Cable Cover, Front Cover, Lens Cable Cover, Screw for Front Cover

DEPA

SNC-DS10

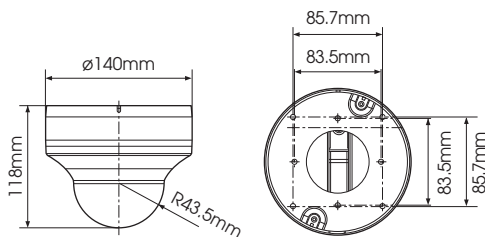New network mini-dome cameras with ExwavePRO™ technology - for clear, detailed, and amazingly sharp images.

Key Features and Benefits

1/4-type Progressive Scan CCD with ExwavePRO™ technology. High resolution images with superior sensitivity

Dual encoding. Maximum flexibility when streaming video data

Bi-directional audio with voice alert. Audio may be transmitted in both directions. Voice preset can store pre recorded warning messages

Analogue video output. Ideal for assisting in image set up during installation

Standard Features and Benefits

- **Quick focus function.** Ideal for quick set up of image focus during installation

- **Privacy masking.** Ideal for masking sensitive areas of the video image

- **Flexible mounting options.** May be mounted in ceiling or wall applications

- **DEPA compatible.** Allows access to powerful video analytics and intelligent motion detection and alarm functions

Dimensions

ø140mm
118mm
R43.5mm

85.7mm
83.5mm
83.5mm
85.7mm

Specifications

Camera	
Image device	1/4-type Progressive Scan CCD with ExwavePRO Technology
Number of total pixels	Approx. 350,000
Number of effective pixels (HxV)	Approx. 330,000 (659 x 494)
Electronic shutter	1 to 1/10,000s
Auto gain control (AGC)	Auto/Manual (0dB to +36dB)
Exposure control	Auto, Backlight compensation, Gamma settings
White balance modes	ATW, ATW Pro
Lens type	Vari-focal lens
Lens mount	Ball-Joint Lens Mount
Horizontal viewing angle	73° to 20°
Focal length	f=2.8 to 10.0mm
F-number	F 1.3 (wide), F 3.0 (tele)
Minimum object distance	300mm
Image	
Image size (H x V) MPEG-4	640 x 480, 384 x 288, 320 x 240
Image size (H x V) JPEG	768 x 576, 640 x 480, 384 x 288, 320 x 240
MPEG-4 frame rate	30fps (640 x 480)
JPEG frame rate	30fps (768 x 576)
Audio	
Audio compression	G.711 /G.726 (40, 32, 24, 16kbps)
Network	
Protocols	TCP/IP, HTTP, ARP, ICMP, FTP, SMTP, DHCP, SNMP, DNS, NTP, RTP/RTCP, UDP, RTSP
Number of clients	10
Authentication	IEEE802.1X
Interface	
Analogue connectivity	BNC xl, 1.0Vp-p, 75Ω, RCA x 1
Ethernet connectivity	10Base-T/100Base-TX (RJ-45)
I/O port connectivity	Sensor in 1, Alarm out 2
Audio connectivity	External Microphone Input: Mini-jack (monaural, 2.2K 2.5VDC plug-in power). Line Output: Mini-jack (monaural), max output level: 1Vrms
Analogue video output	
Video system	PAL
Horizontal resolution	400TVL
S/N ratio	More than 50dB
Sensitivity colour	0.15lx (50IRE, F1.3 AGC 36dB)
General	
Zoom ratio	x3.6 optical zoom
Weight	Approx. 780g
Dimensions (W x H x D)	Approx. 140 x 118mm
Power requirements	AC 24V, DC 12V, PoE
Power consumption	7.5W max
Operating temperature	-0 to 50°C (32 to 122°F)
Storage temperature	-20 to 60°C (-4 to 140°F)
System requirements	
Operating system	Microsoft Windows 2000/XP/Vista®
System requirements	Intel® Pentium® IV 2.4GHz or higher, Intel Core2 Duo, 1.8GHz or higher. RAM: 1GB or more
Supplied Accessories	
	CD-ROM (User's Guide, IP Setup Program, Audio Upload Tool, Privacy Masking Tool, Video Player, Custom Homepage Installer), Installation Manual, Bracket, Template, M4 screws (2), Wire Rope, M4 Shoulder Screw, Audio Cable, I/O Cable, LAN Cable, BNC Cable

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (http://www.openssl.org)
This product includes cryptographic software written by Eric Young (eay@crytposoft.com)

SNC-DM110

New network mini-dome cameras with ExwavePRO™ technology and resolution up to 1.3 megapixels - for clear, detailed, and amazingly bright surveillance monitoring images.
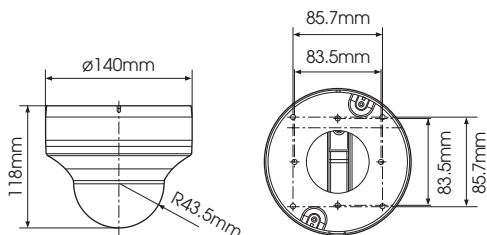
Key Features and Benefits

Progressive Scan CCD With ExwavePRO™ technology. High sensitivity for crisp clear images

Megapixel. High quality 1.3 megapixel image

Light Funnel Function. Unique function offers usable images in extremely low light

Dual encoding. Maximum flexibility when streaming video data

Analogue video output. Ideal for assisting set up during installation

Solid PTZ. Electronic pan, tilt, zoom facility with flexible image cropping function. may be linked to intelligent VMD

Intelligent Motion Detection. Highly flexible vmd may be linked to DEPA enabled s/w

Standard Features and Benefits

- **Quick focus function.** Ideal for high speed focus of camera image during installation
- **Flexible mounting options.** Can be ceiling or wall mounted
- **Privacy zone masking.** Flexible privacy masking of images

Dimensions

ø140mm
85.7mm
83.5mm
118mm
83.5mm
85.7mm
R43.5mm

Specifications

Camera	
Image device	1/3-type Progressive Scan CCD with ExwavePRO Technology
Number of total pixels	Approx. 1,320,000
Number of effective pixels (HxV)	Approx. 1,250,000 (1296 x 966) Approx. 330,000 (659 x 494)
Electronic shutter	1 to 1/10,00 s
Auto gain control (AGC)	On/Off (0dB to +36dB)
Exposure control	Auto, Backlight compensation, Gamma settings
White balance modes	ATW, ATW Pro
Lens type	Vari-focal lens
Lens mount	Ball-Joint Lens Mount
Horizontal viewing angle	100.3° to 29°
Focal length	f=2.8 to 9.5mm
F-number	F1.3 (wide), F2.9 (tele)
Minimum object distance	300mm
Image	
Image size (H x V) MPEG-4	640 x 480, 384 x 288, 320 x 240
Image size (H x V) JPEG	1280 x 960, 960 x 720, 768 x 576, 640 x 480, 384 x 288, 320 x 240
MPEG-4 frame rate	25fps (640 x 480)
JPEG frame rate	25fps (640 x 480), 15fps (1280 x 960, 768 x 576)
Audio	
Audio compression	G.711 (64kbps)/G.726 (40, 32, 24, 16kbps)
Network	
Protocols	TCP/IP, HTTP, ARP, ICMP, FTP, SMTP, DHCP, SNMP, DNS, NTP, RTP/RTCP, UDP, RTSP
Number of clients	10
Authentication	IEEE802.1X
Interface	
Analogue connectivity	BNC xl, 1.0Vp-p, 75Ω, RCA x 1
Ethernet connectivity	10Base-T/100Base-TX (RJ-45)
I/O port connectivity	Sensor in 1, Alarm out 2
Audio connectivity	External Microphone Input: Mini-jack (monaural, 2.2K 2.5V plug-in power). Line Output: Mini-jack (monaural), max output level: 1Vrms
Analogue video output	
Video system	PAL
Horizontal resolution	600 TV lines
S/N ratio	More than 50dB
Sensitivity colour	0.15lx (50IRE, F1.3, ACG 36dB)
General	
Zoom ratio	x3.4 optical zoom (x2 digital zoom)
Weight	Approx. 780g
Dimensions (W x H x D)	Approx. 140 x 118mm
Power requirements	AC 24V, DC 12V, PoE
Power consumption	8W max.
Operating temperature	0 to 50°C (32 to 122°F)
Storage temperature	-20 to 60°C (-4 to 140°F)
System requirements	
Operating system	Microsoft Windows 2000/XP/Vista®
System requirements	Intel® Pentium® IV 3GHz or higher, Intel Core2 Duo, 2GHz or higher. RAM: 1GB or more
Supplied Accessories	
	CD-ROM (User's Guide, IP Setup Program, Audio Upload Tool, Privacy Masking Tool, Video Player, Custom Homepage Installer), Installation Manual, Bracket, Template, M4 Screws (4), Wire Rope, M4 Shoulder Screw, Audio Cable, I/O Cable, LAN Cable, BNC Cable

DEPA

SNC-DF50P

Reproducing extremely clear and detailed images -
Sony Professional's intelligent mini-dome cameras provide
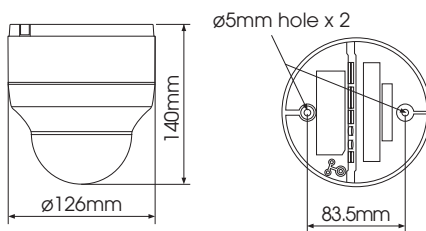a high level of security, anytime and anywhere.

Key Features and Benefits

1/3-type CCD. Clear high performance images

DynaView™ technology. High quality images even in high contrast scenes

Dynamic frame integration. Reduces motion blur in high speed images

JPEG, MPEG-4 and H.264 streaming. Maximum flexibility in image data streaming

Bi-directional audio with voice alert. Audio may be transmitted in both direction. Pre recorded audio messaging also available

In-built pre and post alarm image storage. On-board storage of alarm image video

Standard Features and Benefits

- **Privacy masking.** Ideal for masking sensitive areas of the video image

Dimensions

ø5mm hole x 2

140mm

ø126mm

83.5mm

Specifications

Camera	
Image device	1/3-type CCD with DynaView Technology
Number of effective pixels (HxV)	440,000 (752 x 582)
Electronic shutter	1/50 to 1 /10,000s
Auto gain control (AGC)	Auto, EV compensation, DynaView
Exposure control	Auto, Back- Light -Compensation (BLC)
White balance modes	ATW, ATVV Pro
Lens type	Vari-focal lens
Lens mount	Ball-Joint Lens Mount
Horizontal viewing angle	100.8° to 27.7°
Focal length	f=2.8 to 10. 0mm
F-number	F 1.3 (wide), F 3.0 (tele)
Minimum object distance	300mm
Image	
Image size (H x V) MPEG-4	640 x 480, 320 x 240, 160 x 120
Image size (H x V) JPEG	640 x 480, 320 x 240, 160 x 120
Image size (H x V) H.264	640 x 480, 320 x 240, 160 x 120
MPEG-4 frame rate	25fps (640 x 480)
JPEG frame rate	25fps (640 x 480)
H.264 frame rate	8fps (640 x 480), 25fps (320 x 240)
Audio	
Audio compression	G.711 (64kbps)/G.726 (40, 32, 24, 16kbps)
Network	
Protocols	TCP/IP, HTTP, ARP, ICMP, FFP, SMTP, DHCP, SNMP, DNS, NTP, RTP/RTCP
Number of clients	20
Authentication	IEEE802.1X
Interface	
Analogue connectivity	BNC x l, 1.0Vp-p, 75Ω, RCA x 1
Ethernet connectivity	10Base-T/100Base-TX (RJ-45)
I/O port connectivity	Sensor in 1, Alarm out 2
Audio connectivity	External Microphone Input: Mini-jack (monaural, 2.2K 2.5V plug-in power). Line Output: Mini-jack (monaural), max output level: 1Vrms
Analogue video output	
Video system	PAL
Horizontal resolution	480 TV lines
S/N ratio	More than 50dB
Sensitivity colour	0.7lx (50 IRE, F1.3, AGC ON)
General	
Zoom ratio	x3.6 optical zoom
Weight	Approx. 920g
Dimensions (W x H x D)	Approx. 126 x 140mm
Power requirements	AC 24V, DC 12V. PoE
Power consumption	9W max
Operating temperature	-10 to 50°C (14 to 122°F)
Storage temperature	-20 to 60°C (-4 to 140°F)
System requirements	
Operating system	Microsoft Windows 2000/XP/Vista®
System requirements	CPU: Intel® Pentium® IV 1.5GHz or higher. RAM: 256MB or more
Supplied Accessories	
	Template, Wire Rope, M4 Shoulder Screw, AC Power Cord, Monitor Cable, CD-ROM (User's Guide, IP Setup Program, Audio Upload Tool, Privacy Masking Tool, Video Player, Custom Homepage Installer), Installation Manual

DEPA

SNC-DS60

New network mini-dome camera with ExwavePRO™ technology for clear, detailed, and amazingly bright surveillance monitoring images.
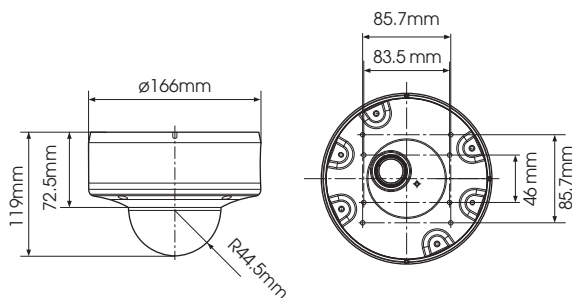
Key Features and Benefits

1/4-type progressive scan CCD with ExwavePRO™ technology. High resolution images with superior sensitivity

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

Solid PTZ. Electronic pan, tilt and zoom function allows accurate image tracking and acquisition

Dual encoding. Maximum flexibility when streaming video data

Bi-directional audio with voice alert. Audio may be transmitted in both directions. Voice preset can store pre recorded warning messages

Analogue video output. Ideal for assisting in image set up during installation

Standard Features and Benefits

- **Quick focus function.** Ideal for quick set up of image focus during installation

- **DEPA compatible.** Allows access to powerful video analytics and intelligent motion detection and alarm functions

- **Privacy masking.** Ideal for masking sensitive areas of the video image

- **Ruggedised design with flexible mounting options.** Ideal for outdoor use, may be mounted in ceiling or wall applications

Dimensions

Specifications

Camera	
Image device	1/4-type Progressive Scan CCD with ExwavePRO Technology
Number of total pixels	350,000
Number of effective pixels (HxV)	Approx. 330,000 (659 x 494)
Electronic shutter	1 to 1/10,000s
Auto gain control (AGC)	Auto/Manual (0dB to +36dB)
Exposure control	Auto, Backlight compensation, Gamma settings
White balance modes	ATW, ATW Pro
Lens type	Vari-focal lens
Horizontal viewing angle	73° to 20°
Focal length	f=2.8 to 10. 0mm
F-number	F 1.3 (wide), F 3.0 (tele)
Minimum object distance	300mm
Image	
Image size (H x V) MPEG-4	640 x 480, 384 x 288, 320 x 240
Image size (H x V) JPEG	768 x 576, 640 x 480, 384 x 288, 320 x 240
MPEG-4 frame rate	25fps (640 x 480)
JPEG frame rate	25fps (768 x 576)
Audio	
Audio compression	G.711 (64kbps)/G.726 (40, 32, 24, 16kbps)
Network	
Protocols	TCP/IP, HTTP, ARP, ICMP. FTP, SMTP, DHCP, SNMP, DNS, NTP, RTP/RTCP, RTSP
Number of clients	10
Authentication	IEEE802.1X
Interface	
Analogue connectivity	BNC xl, 1.0Vp-p, 75Ω, RCA x 1
Ethernet connectivity	10Base-T/100Base-TX (RJ-45)
I/O port connectivity	Sensor in 1, Alarm out 2
Audio connectivity	External Microphone Input: Mini-jack (monaural, 2.2K 2.5V plug-in power). Line Output: Mini-jack (monaural), max output level: 1Vrms
Analogue video output	
Video system	PAL
Horizontal resolution	400 TV lines
S/N ratio	More than 50dB
Sensitivity colour	0.15lx (50IRE, F1.3, ACG 36dB)
Sensitivity monochrome	0.05lx (50IRE, F1.3, AGC 36dB)
General	
Zoom ratio	x3.6 optical zoom (x2 digital zoom)
Weight	Approx. 1.4kg
Dimensions (W x H x D)	Approx. 166 x 119mm
Power requirements	AC 24V, DC 12V, PoE
Power consumption	15W max.
Operating temperature	-30 to 50°C (-22 to 122°F)
Storage temperature	-20 to 60°C (-4 to 140°F)
System requirements	
Operating system	Microsoft Windows 2000/XP/Vista®
System requirements	Intel® Pentium® IV 2.4GHz or higher, Intel Core2 Duo, 1.8GHz or higher. RAM: 1GB or more
Supplied Accessories	
	CD-ROM (User's Guide, IP Setup Program, Audio Upload Tool, Privacy Masking Tool, Video Player, Custom Homepage Installer), Installation Manual, Bracket, Template, Torx Wrench, M4 Screws (4), Wire Rope, M4 Shoulder Screw, Audio Cable, I/O Cable, LAN Cable

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (http://www.openssl.org)
This product includes cryptographic software written by Eric Young (eay@crytposoft.com)

SNC-DM160

New network mini-dome cameras with ExwavePRO™ technology and resolution up to 1.3 megapixels - for clear, detailed, and amazingly bright surveillance monitoring images.
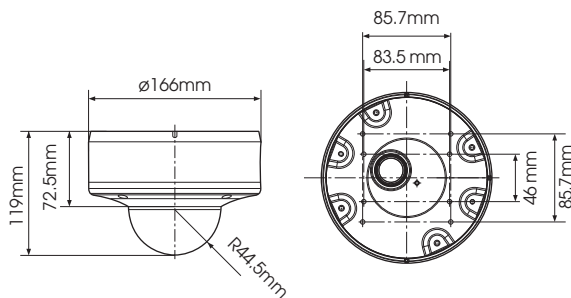
Key Features and Benefits

Progressive Scan CCD With ExwavePRO™ technology. High sensitivity for crisp clear images

Megapixel. High quality 1.3 megapixel image

Light Funnel Function. Unique function offers usable images in extremely low light

Dual encoding. Maximum flexibility when streaming video data

Analogue video output. Ideal for assisting set up during installation

Solid PTZ. Electronic pan, tilt, zoom facility with flexible image cropping function may be linked to intelligent VMD

Intelligent Motion Detection. Highly flexible VMD may be linked to DEPA™ enabled s/w

Standard Features and Benefits

- **Quick focus function.** Ideal for high speed focus of camera image during installation
- **Ruggedised with flexible mounting options.** Ideal for use in outdoor conditions. Can be ceiling or wall mounted
- **Privacy zone masking.** Flexible privacy masking of images
- **Power over ethernet.** Allows remote transmission of power by utilising installed ethernet cable, thus reducing the amount of cable and associated costs on site

Dimensions

ø166mm
119mm
72.5mm
R44.5mm

85.7mm
83.5 mm
46 mm
85.7mm

Specifications

Camera	
Image device	1/3-type Progressive Scan CCD with ExwavePRO Technology
Number of total pixels	Approx. 1,320,000
Number of effective pixels (HxV)	1,250,000 (1296 x 966)
Electronic shutter	1 to 1/10,000s
Auto gain control (AGC)	Auto/Manual (0dB to +36dB)
Exposure control	Auto, Back-Light-Compensation (BLC), Gamma settings
White balance modes	ATW, ATW Pro
Lens type	Vari-focal lens
Lens mount	Ball-Joint Lens Mount
Horizontal viewing angle	100.8° to 27.7°
Focal length	f=2.8 to 10.0mm
F-number	F1.3 (wide), F3.0 (tele)
Minimum object distance	300mm
Image	
Image size (H x V) MPEG-4	640 x 480, 384 x 288, 320 x 240
Image size (H x V) JPEG	1280 x 960, 960 x 720, 768 x 576, 640 x 480, 384 x 288, 320 x 240
MPEG-4 frame rate	25fps (640 x 480)
JPEG frame rate	25fps (640 x 480), 15fps (1280 x 960, 768 x 576)
Audio	
Audio compression	G.711 (64kbps)/ G.726 (40,32,24,16kbps)
Network	
Protocols	TCP/IP, HTTP, ARP, ICMP, FTP, SMTP, DHCP, SNMP, DNS, NTP, RTP/RTCP, UDP, RTSP
Number of clients	10
Authentication	IEEE802.1X
Interface	
Analogue connectivity	BNC x 1, 1.0Vp-p, 75Ω, RCA x 1
Ethernet connectivity	10Base-T/100Base-TX (RJ-45)
I/O port connectivity	Sensor in 1, Alarm out 2
Audio connectivity	External Microphone Input: Mini-jack (monaural, 2.2K 2.5VDC plug-in power). Line Output: Mini-jack (monaural), max output level: 1Vrms
Analogue video output	
Video system	PAL
Horizontal resolution	600 TV lines
S/N ratio	More than 50dB
Sensitivity colour	0.15lx (50IRE, F1.3, ACG 36dB)
Sensitivity monochrome	0.15lx (50IRE, F1.3, AGC 30dB)
General	
Zoom ratio	x3.6 optical zoom (x2 digital zoom)
Weight	Approx. 1.4kg
Dimensions (W x H x D)	Approx. 166 x 119mm
Power requirements	PoE/AC 24V/DC 12V
Power consumption	15W max.
Operating temperature	-30 to 50°C (-22 to 122°F)
Storage temperature	-20 to 60°C (-4 to 140°F)
System requirements	
Operating system	Microsoft Windows 2000/XP/Vista®
System requirements	CPU: Intel® Pentium® IV 1.5GHz or higher. RAM: 256MB or more
Supplied Accessories	
	CD-ROM (User's Guide, IP Setup Program, Audio Upload Tool, Privacy Masking Tool, Video Player, Custom Homepage Installer), Installation Manual, Bracket, Template, Torx Wrench, M4 Screws (4), Wire Rope, M4 Shoulder Screw, Audio Cable, I/O Cable, LAN Cable

DEPA

SNC-DF80P

Reproducing extremely clear and detailed images -
Sony Professional's intelligent mini-dome cameras provide
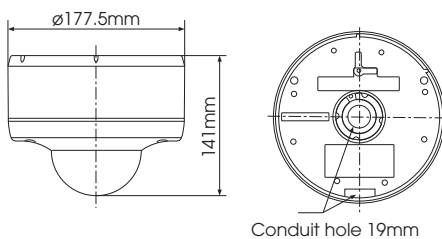a high level of security, anytime and anywhere.

Key Features and Benefits

1/3-type SuperExwave™ CCD. Clear high performance images

Dynamic frame integration. Reduces motion blur in high speed images

JPEG, MPEG-4 and H.264 streaming. Maximum flexibility in image data streaming

Day/night function. Ideal for switching to monochrome under night conditions

In-built pre and post alarm image storage. On-board storage of alarm image video

Bi-directional audio with voice alert. Audio may be transmitted in both direction. Pre recorded audio messaging also available

Standard Features and Benefits

- **Ruggedised design.** Ideal for hostile outdoor conditions
- **PC card expansion slot.** Wide range of accessories available

Dimensions

ø177.5mm

141mm

Conduit hole 19mm

Specifications

Camera	
Image device	1/3-type SuperExwave CCD
Number of effective pixels (HxV)	440,000 (752 x 582)
Electronic shutter	1 /50 to 1 /10,000s
Auto gain control (AGC)	On/Off (0dB to +24dB)
Exposure control	Auto, Back- Light-Compensation (BLC)
White balance modes	ATW, ATW Pro
Lens type	Vari-focal lens
Lens mount	Ball-Joint Lens Mount
Horizontal viewing angle	100.8° to 27.7°
Focal length	f=2.8 to 10. 0mm
F-number	F1.3 (wide), F3.0 (tele)
Minimum object distance	300mm
Image	
Image size (H x V) MPEG-4	640 x 480, 320 x 240, 160 x 120
Image size (H x V) JPEG	640 x 480, 320 x 240, 160 x 120
Image size (H x V) H.264	640 x 480, 320 x 240, 160 x 120
MPEG-4 frame rate	25fps (640 x 480)
JPEG frame rate	25fps (640 x 480)
H.264 frame rate	8fps (640 x 480), 25fps (320 x 240)
Audio	
Audio compression	G.711 (64kbps) /G. 726 (40, 32, 24, 16kbps)
Network	
Protocols	TCP/IP, HTTP, ARP, ICMP. FTP, SMTP, DHCP, SNMP, DNS, NTP, RTP/RTCP
Number of clients	20
Authentication	IEEE802.1X
Interface	
Analogue connectivity	BNC xl, 1.0Vp-p, 75Ω, RCA x 1
Ethernet connectivity	10Base-T/100Base-TX (RJ-45)
I/O port connectivity	Sensor in 1, Alarm out 2
Audio connectivity	External Microphone Input: Mini-jack (monaural, 2.2K 2.5VDC plug-in power). Line Output: Mini-jack (monaural), max output level: 1Vrms
Analogue video output	
Video system	PAL
Horizontal resolution	540 TV lines
S/N ratio	More than 50dB
Sensitivity colour	0.6lx (50IRE, F1.3, AGC ON)
Sensitivity monochrome	0.06lx (50IRE, F1.3, AGC ON)
General	
Zoom ratio	x3.6 optical zoom
Weight	Approx. 1.8kg
Dimensions (W x H x D)	Approx. 177 x 141mm
Power requirements	AC 24V, DC 12V, PoE
Power consumption	10W max.
Operating temperature	-10 to 50°C (14 to 122°F) / -40 to 50°C (-40 to 122°F) with optional heater unit
Storage temperature	-20 to 60°C (-4 to 140°F)
System requirements	
Operating system	Microsoft Windows 2000/XP/Vista®
System requirements	CPU: Intel® Pentium® IV 1.5GHz or higher. RAM: 256MB or more, (Vista) Intel® Pentium® IV 3GHz or higher / Core2 Duo 2GHz or higher, RAM: 1GB or more
Supplied Accessories	
	Bracket, Template, Torx Wrench, M4 Screws (4), Wire Rope, M4 Shoulder Screw, Audio Cable, I/0 Cable, CD-ROM (User's Guide, IP Setup Program, Audio Upload Tool, Privacy Masking Tool, Video Player, Custom Homepage Installer), Installation Manual

DEPA

SNC-DF85P

Reproducing extremely clear and detailed images -
Sony Professional's intelligent mini-dome cameras provide
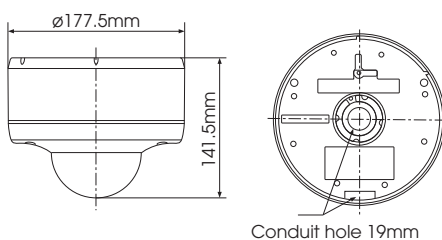a high level of security, anytime and anywhere.

Key Features and Benefits

1/3-type CCD. Clear high performance images

DynaView™ technology. Excellent images even in high contrast scenes

Dynamic frame integration. Reduces motion blur in high speed images

JPEG, MPEG-4 and H.264 streaming. Maximum flexibility in image data streaming

Day/night function. Ideal for switching to monochrome under night conditions

In-built pre and post alarm image storage. On-board storage of alarm image video

Bi-directional audio with voice alert. Audio may be transmitted in both direction. Pre recorded audio messaging also available

Standard Features and Benefits

- **Ruggedised design.** Ideal for hostile outdoor conditions
- **PC card expansion slot.** Wide range of accessories available
- **Privacy masking.** Ideal for masking sensitive areas of the video image

Dimensions

ø177.5mm

141.5mm

Conduit hole 19mm

Specifications

Camera	
Image device	1/3-type CCD SuperExwave Technology
Number of effective pixels (HxV)	440,000 (752 x 582)
Electronic shutter	1 /50 to 1 /10, 000s
Auto gain control (AGC)	On/Off (0dB to +24dB)
Exposure control	Auto, Back- Light-Compensation (BLC)
White balance modes	ATW, ATW Pro
Lens type	Vari-focal lens
Horizontal viewing angle	100.8° to 27.7°
Focal length	f=2.8 to 10. 0mm
F-number	F1.3 (wide), F3.0 (tele)
Minimum object distance	300mm
Image	
Image size (H x V) MPEG-4	640 x 480, 320 x 240, 160 x 120
Image size (H x V) JPEG	640 x 480, 320 x 240, 160 x 120
Image size (H x V) H.264	640 x 480, 320 x 240, 160 x 120
MPEG-4 frame rate	25fps (640 x 480)
JPEG frame rate	25fps (640 x 480)
H.264 frame rate	8fps (640 x 480)
Audio	
Audio compression	G.711 (64kbps)/G. 726 (40, 32, 24, 16kbps)
Network	
Protocols	TCP/IP, HTTP, ARP, ICMP. FTP, SMTP, DHCP, SNMP, DNS, NTP, RTP/RTCP
Number of clients	20
Authentication	IEEE802.1X
Interface	
Analogue connectivity	BNC xl, 1.0Vp-p, 75Ω, RCA x 1
Ethernet connectivity	10Base-T/100Base-TX (RJ-45)
I/O port connectivity	Sensor in 1, Alarm out 2
Audio connectivity	External Microphone Input: Mini-jack (monaural, 2.2K 2.5V plug-in power) Line Output: Mini-jack (monaural), max output level: 1Vrms
Analogue video output	
Video system	PAL
Horizontal resolution	480 TVL
S/N ratio	More than 50dB
Sensitivity colour	0.7lx (50IRE, F1.3, AGC ON)
Sensitivity monochrome	0.15lx (50IRE, F1.3 AGC ON)
General	
Zoom ratio	x3.6 optical zoom
Weight	Approx. 1.8kg
Dimensions (W x H x D)	Approx. 177 x 141mm
Power requirements	AC 24V, DC 12V, PoE
Power consumption	10W max.
Operating temperature	-10 to 50°C (14 to 122°F) / -40 to 50°C (-40 to 122°F) with optional heater unit
Storage temperature	-20 to 60°C (-4 to 140°F)
System requirements	
Operating system	Microsoft Windows 2000/XP/Vista®
System requirements	CPU: Intel® Pentium® IV 1.5GHz or higher. RAM: 256MB or more, (Vista) Intel® Pentium® IV 3GHz or higher / Core2 Duo 2GHz or higher, RAM: 1GB or more
Supplied Accessories	
	Bracket, Template, Torx Wrench, M4 Screws (4), Wire Rope, M4 Shoulder Screw, Audio Cable, 1/0 Cable, CD-ROM (User's Guide, IP Setup Program, Audio Upload Tool, Privacy Masking Tool, Video Player, Custom Homepage Installer), Installation Manual

DEPA

SNC-P5

To meet the growing demand for high quality, affordable remote monitoring systems, Sony has introduced a new addition to its line of network cameras - the SNC-P5 MPEG-4 PTZ.
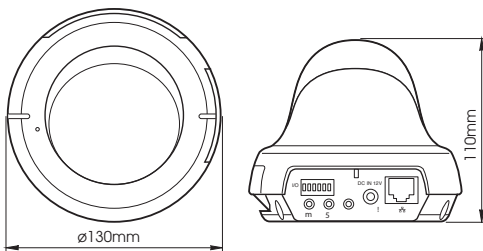
Key Features

1/4-type progressive scan CCD. Clear high performance images

Dual encoding. Maximum flexibility when streaming video data

Bi-directional audio with built in microphone. Transmits audio in both directions, in built microphone transmits audio from remote site
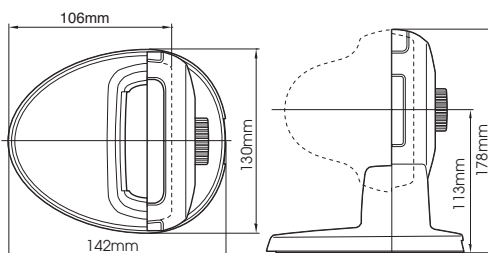
Standard Features and Benefits

- **Pan/Tilt/Zoom capability.** Allows coverage of large areas with motorized pan, tilt and 3x zoom capability

- **Compact flash expansion slot.** Allows flexibility for additional storage and accessories

- **Motion detection alarm trigger.** External alarm output from motion triggered alarms

- **In-built pre and post alarm image storage.** Allows internal storage of alarm images

Dimensions

ø130mm
110mm

Stand

106mm
130mm
142mm
178mm
113mm

Specifications

Camera	
Image device	1/4-type progressive scan CCD
Number of effective pixels (HxV)	330,000 (659 x 494)
Electronic shutter	Auto/Manual (1 to 1/10000s)
Exposure control	Auto, Shutter priority, Manual
White balance modes	Auto, Indoor, Outdoor, One-push, Manual
Lens type	Pan focus optical zoom lens
Horizontal viewing angle	Horizontal 20 to 55.8°, Vertical: 15.1 to 43.3
Focal length	f=3.4mm, to 10.2mm
F-number	F2.8 (Wide) to 3.9 (Tele)
Minimum object distance	0.4m (Wide), 1.4m (Tele)
Image	
Image size (H x V) MPEG-4	640 x 480, 480 x 360, 384 x 288, 320 x 240, 256 x 192, 160 x 120
Image size (H x V) JPEG	640 x 480, 480 x 360, 384 x 288, 320 x 240, 256 x 192, 160 x 120
MPEG-4 frame rate	25fps (320x240), 15fps (640 x 480)
JPEG frame rate	25fps (320x240), 18fps (640 x 480)
Audio	
Audio compression	G.711 (64kbps) / G.726 (40, 32, 24, 16kbps)
Network	
Protocols	TCP/IP, ARP, ICMP, DHCP, DNS, HTTP, FTP, SMTP, NTP, SNMP (MIB-2), RTP/RTCP, PPPoE
Number of clients	10 (MPEG4), 20 (JPEG)
Interface	
Analogue connectivity	Mini-jack (1.0V p-p, 75Ω, Sync negative)
Ethernet connectivity	100Base-TX/10Base-T (RJ-45)
I/O port connectivity	Sensor in 2, Alarm out 1
Audio connectivity	Built-in Microphone: Electret condenser micophone (omni-directional). External Microphone Input: Mini-jack, 2.2kΩ Unbalanced (RCA), 2.5V plug-in power. Line Output: Mini-jack (mono), max output level: 1Vrms
Analogue video output	
Video system	PAL
Horizontal resolution	400TV Line
S/N ratio	48dB
Sensitivity colour	3.5lx (F2.8, 30IRE, AGC ON)
General	
Zoom ratio	x3 optical zoom
Weight	Approx. 380g / Stand Approx 360g
Dimensions (W x H x D)	Camera:130 x 130 x 110mm / Stand: 130 x 178 x 142mm
Power requirements	DC 12V
Power consumption	6.2W
Operating temperature	0 to +35°C (32 to 95°F)
Storage temperature	-20 to 60°C (-4 to 140°F)
System requirements	
Operating system	Microsoft Windows 2000/XP/Vista®
System requirements	CPU: Intel® Pentium® IV 1.5GHz or higher. RAM: 256MB or more, (Vista) Intel® Pentium® IV 3GHz or higher / Core2 Duo 2GHz or higher, RAM: 1GB or more
Supplied Accessories	
	AC Power Adaptor MPA-AC1 (Sony) (x1), Stand (x1), Wall-Mount (x1)

SNC-RZ25P

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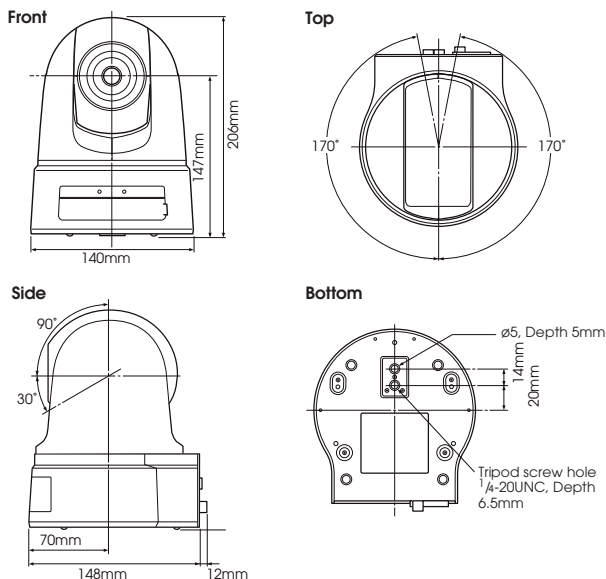and PTZ (Pan/Tilt/Zoom) in a single package.

Key Features and Benefits

1/4-type CCD with Exwave HAD™ technology. High
quality images with superior sensitivity

Dual encoding. Maximum flexibility when streaming
video data

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

Bi-directional audio. Audio may be transmitted in both
directions

**Motion detection alarm handling with pre alarm
function.** Alarms generated on image motion, can be
used to trigger external alarm device

Analogue video output. Ideal for assisting in image set
up during installation

Standard Features and Benefits

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

Dimensions

Front

206mm
147mm
140mm

Top

170°   170°

Side

90°
30°
70mm
148mm   12mm

Bottom

ø5, Depth 5mm
14mm
20mm
Tripod screw hole
1/4-20UNC, Depth
6.5mm

Specifications

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

SNC-RZ50P

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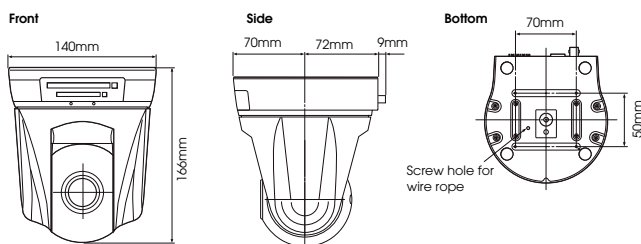
Key Features and Benefits

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

Standard Features and Benefits

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

Dimensions

Front
140mm
166mm

Side
70mm 72mm 9mm

Bottom
70mm
70mm
50mm
Screw hole for wire rope

Specifications

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

DEPA

SNC-RX530

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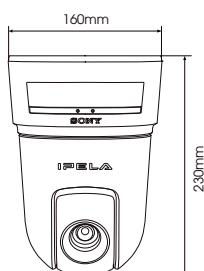
Key Features

¼ 1/4-type CCD with Exwave HAD™ technology. Clear high performance images

Dynamic frame integration. Reduces motion blur from high speed images

H.264 JPEG, MPEG-4 and H.264 streaming. JPEG, MPEG-4, H.264 encoding allows maximum image transmission flexibility

Day/night function. Switches automatically to mono in night conditions

Dual encoding. Maximum flexibility when streaming video data

In-built pre and post alarm image storage. On-board storage of alarm images

Bi-directional audio with voice alert. Audio may be transmitted in both directions. Voice preset can store pre recorded warning messages

Analogue video output. Ideal for assisting in image set up during installation

Standard Features and Benefits

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

Dimensions

160mm

230mm

Specifications

| Camera	
Image device	1/4-type Exwave HAD CCD
Number of effective pixels (HxV)	440,000 (752 x 582)
Electronic shutter	1 to 1/10000s
Auto gain control (AGC)	Auto/Manual (-3dB to +28dB)
Exposure control	Auto (Full auto, Shutter-priority, Iris-priority), Manual, EV compensation, Backlight compensation
White balance modes	Auto, Indoor, Outdoor, One-push, ATW, Manual
Lens type	Auto-focus zoom lens
Horizontal viewing angle	Horizontal 2.2° to 48°
Focal length	f=4.1 to 73.8mm
F-number	F1.4 (wide), F3.0 (tele)
Minimum object distance	290mm (wide), 800mm (tele)
Image	
Image size (H x V) MPEG-4	704 x 576, 640 x 480, 320 x 240, 160 x 120
Image size (H x V) JPEG	704 x 576, 640 x 480, 320 x 240, 160 x 120
Image size (H x V) H.264	704 x 576, 640 x 480, 320 x 240, 160 x 120
MPEG-4 frame rate	25fps (640 x 480)
JPEG frame rate	25fps (640 x 480)
H.264 frame rate	8fps (640 x 480)
Audio	
Audio compression	G.711 (64kbps) / G.726 (40, 32, 24, 16kbps)
Network	
Protocols	TCP/IP, HTTP, ARP, ICMP, DHCP, FTP, SMTP, SNMP, RTP/RTCP, RTSP
Number of clients	20
Authentication	IEEE802.1X
Interface	
Analogue connectivity	BNC x1, 1.0Vp-p, 75Ω
Ethernet connectivity	10Base-T/100Base-TX (RJ-45)
I/O port connectivity	Sensor in 2, Alarm out 2
Audio connectivity	External Microphone Input: Mini-jack (monaural, 2.2K 2.5V plug-in power). Line Output: Mini-jack (monaural), max output level: 1Vrms
Analogue video output	
Video system	PAL
Horizontal resolution	460 TV lines
S/N ratio	More than 50dB
Sensitivity colour	0.7lx (50IRE, F1.4, AGC ON),
Sensitivity monochrome	0.15lx (50IRE, F1.4, AGC ON)
General	
Zoom ratio	x18 optical zoom (x216 with digital zoom)
Weight	2.2kg
Dimensions (W x H x D)	160 x 160 x 230mm (Excluding cover equipment)
Power requirements	AC 24V, DC 12V
Power consumption	24W max.
Operating temperature	0 to 50°C (32 to 122°F)
Storage temperature	-20 to 60°C (-4 to 140°F)
System requirements	
Operating system	Microsoft Windows 2000/XP/Vista®
System requirements	CPU: Intel® Pentium® IV 1.5GHz or higher. RAM: 256MB or more, (Vista) Intel® Pentium® IV 3GHz or higher / Core2 Duo 2GHz or higher, RAM: 1GB or more
Supplied Accessories	
	Ceiling-Mount Bracket (A), Ceiling-Mount Bracket (B), Screws x6, Wire Rope, CD-ROM (Setup Software), Operation Manual, Installation Manual

SNC-RX550

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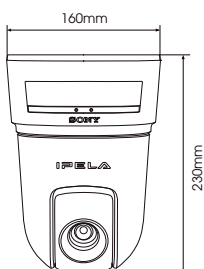
Key Features and Benefits

1/4-type CCD with Exwave HAD™ technology. Clear high performance images

Dynaview wide dynamic range technology. Exceptional images even in high contrast scenes

Dynamic frame integration. Reduces motion blur from high speed images

JPEG, MPEG-4 and H.264 streaming. JPEG, MPEG-4, H.264 encoding allows maximum image transmission flexibility

Day/night function. Switches automatically to mono in night conditions

Dual encoding. Maximum flexibility when streaming video data

In-built pre and post alarm image storage. On-board storage of alarm images

Bi-directional audio with voice alert. Audio may be transmitted in both directions. Voice preset can store pre recorded warning messages

Analogue video output. Ideal for assisting in image set up during installation

Standard Features and Benefits

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

Dimensions

160mm
230mm

Specifications

Camera	
Image device	1/4-type Exwave HAD CCD
Number of effective pixels (HxV)	440,000 (752 x 582)
Electronic shutter	1 to 1/10000s
Auto gain control (AGC)	Auto/Manual (-3dB to +28dB)
Exposure control	Auto, Shutter-priority, Iris-priority, Manual, EV compensation, Backlight compensation
White balance modes	Auto, Indoor, Outdoor, One-push, ATW, Manual
Lens type	Auto-focus zoom lens
Horizontal viewing angle	Horizontal 2.2° to 54.2°
Focal length	f=3.5 to 91.0mm
F-number	F1.6 (wide), F3.8 (tele)
Minimum object distance	320mm (wide), 1,500mm (tele)
Image	
Image size (H x V) MPEG-4	704 x 576, 640 x 480, 320 x 240, 160 x 120
Image size (H x V) JPEG	704 x 576, 640 x 480, 320 x 240, 160 x 120
Image size (H x V) H.264	704 x 576, 640 x 480, 320 x 240, 160 x 120
MPEG-4 frame rate	25fps (640 x 480)
JPEG frame rate	25fps (640 x 480)
H.264 frame rate	8fps (640 x 480), 25fps (320 x 240)
Audio	
Audio compression	G.711 (64kbps) / G.726 (40, 32, 24, 16kbps)
Network	
Protocols	TCP/IP, HTTP, ARP, ICMP, DHCP, FTP, SMTP, SNMP, RTP/RTCP, RTSP
Number of clients	20
Authentication	IEEE802.1X
Interface	
Analogue connectivity	x1 BNC, 1.0Vp-p, 75Ω
Ethernet connectivity	10Base-T/100Base-TX (RJ-45)
I/O port connectivity	Sensor in 2, Alarm out 2
Audio connectivity	External Microphone Input: Mini-jack (monaural, 2.2K 2.5V plug-in power). Line Output: Mini-jack (monaural), max output level: 1Vrms
Analogue video output	
Video system	PAL
Horizontal resolution	460 TV lines
S/N ratio	More than 50dB
Sensitivity colour	1lx at (50IRE, F1.6, AGC ON)
General	
Zoom ratio	x26 optical zoom (x312 with digital zoom)
Weight	2.2kg
Dimensions (W x H x D)	160 x 160 x 230mm (excluding cover equipment)
Power requirements	AC 24V, DC 12V
Power consumption	25W max.
Operating temperature	0 to 50°C (32 to 122°F)
Storage temperature	-20 to 60°C (-4 to 140°F)
System requirements	
Operating system	Microsoft Windows 2000/XP/Vista®
System requirements	CPU: Intel® Pentium® IV 1.5GHz or higher. RAM: 256MB or more, (Vista) Intel® Pentium® IV 3GHz or higher / Core2 Duo 2GHz or higher, RAM: 1GB or more
Supplied Accessories	
	Ceiling-Mount Bracket (A), Ceiling-Mount Bracket (B), Screws x6, Wire Rope, CD-ROM (Setup Software), Operation Manual, Installation Manual

SNC-RX570

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

Key Features and Benefits

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

Standard Features and Benefits

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

Dimensions

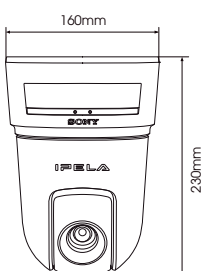## Specifications

Camera	
Image device	1/4-type Exwave HAD CCD
Number of effective pixels (HxV)	440,000 (752 x 582)
Electronic shutter	1 to 1/10000s
Auto gain control (AGC)	Auto/Manual (-3dB to +28dB)
Exposure control	Auto (Full auto, Shutter-priority, Iris-priority), Manual, EV compensation, Backlight Compensation
White balance modes	Auto, Indoor, Outdoor, One-push, ATW, Manual
Lens type	Auto-focus zoom lens
Horizontal viewing angle	Horizontal 1.7° to 57.8°
Focal length	f=3.4 to 122.4mm
F-number	F1.6 (wide), F4.5 (tele)
Minimum object distance	320mm (wide), 1,500mm (tele)
Image	
Image size (H x V) MPEG-4	704 x 576, 640 x 480, 320 x 240, 160 x 120
Image size (H x V) JPEG	704 x 576, 640 x 480, 320 x 240, 160 x 120
Image size (H x V) H.264	704 x 576, 640 x 480, 320 x 240, 160 x 120
MPEG-4 frame rate	25fps (640 x 480)
JPEG frame rate	25fps (640 x 480)
H.264 frame rate	Max. 8fps
Audio	
Audio compression	G.711 (64kbps) / G.726 (40, 32, 24, 16kbps)
Network	
Protocols	TCP/IP, HTTP, ARP, ICMP, DHCP, FTP, SMTP, SNMP, RTP/RTCP, DNS, RTSP
Number of clients	20
Authentication	IEEE802.1X
Interface	
Analogue connectivity	x1 BNC, 1.0Vp-p, 75Ω
Ethernet connectivity	10Base-T/100Base-TX (RJ-45)
I/O port connectivity	Sensor in 2, Alarm out 2
Audio connectivity	External Microphone Input: Mini-jack (monaural, 2.2K 2.5V plug-in power). Line Output: Mini-jack (monaural), max output level: 1Vrms
Analogue video output	
Video system	PAL
Horizontal resolution	530 TV lines
S/N ratio	More than 50dB
Sensitivity colour	1.4lx (50IRE, F1.6, AGC ON),
Sensitivity monochrome	0.15lx (50IRE, F1.6, AGC ON)
General	
Zoom ratio	x36 optical zoom (x432 with digital zoom)
Weight	2.2kg
Dimensions (W x H x D)	160 x 160 x 230mm (excluding cover equipment)
Power requirements	AC 24V, DC 12V
Power consumption	27W max.
Operating temperature	0 to 50°C (32 to 122°F)
Storage temperature	-20 to 60°C (-4 to 140°F)
System requirements	
Operating system	Microsoft Windows 2000/XP/Vista®
System requirements	CPU: Intel® Pentium® IV 1.5GHz or higher. RAM: 256MB or more, (Vista) Intel® Pentium® IV 3GHz or higher / Core2 Duo 2GHz or higher, RAM: 1GB or more
Supplied Accessories	
	Ceiling-Mount Bracket (A), Ceiling-Mount Bracket (B), Screws x6, Wire Rope, CD-ROM (Setup Software), Operation Manual, Installation Manual

160mm

230mm

SNC-RH124

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

Key Features and Benefits

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

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

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

DEPA **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

166 (6 5/8)
226 (9)

Specifications

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

SNC-RH164

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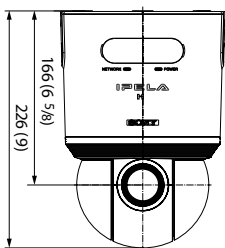
Key Features and Benefits

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

XDNR **XDNR noise reduction technology.** Noise and Ghost free images with superior sensitivity in low light conditions
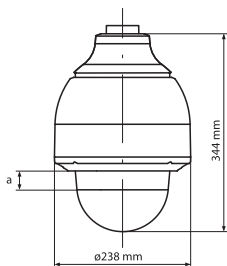
VE **Visibility Enhancer.** Enhanced wide dynamic range improves performance in challenging lighting conditions

DEPA **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

344 mm
a
ø238 mm

Specifications

Camera	
Image device	HD CMOS
Day/Night	Yes
Wide-D	Yes
Number of effective pixels	(H x V) Approx. 2 Megapixel
Electronic shutter speed	1/2 to 1/10,000s
Auto gain control	Auto/Manual (-3 to +18dB)
Exposure control	Auto, Full auto, Shutter-priority, Iris-priority, Manual, EV compensation, Backlight compensation
White balance mode	Auto, Indoor, Outdoor, One-push WB, Manual
Lens type	Auto-focus zoom lens
Zoom ratio	10x
Horizontal viewing angle	5.4 to 50 degrees
Focal length	f=5.1 to 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, 768 x 576, 640 x 480, 320 x 240 (H.264, MPEG-4, JPEG)
Video compression format	H.264, MPEG-4, JPEG
Maximum frame rate	H264/MPEG-4: 30 fps (1280 x 720)
JPEG	10 fps (1280 x 720)
Audio	
Audio compression	G.711/G.726
Scene Analytics	
Simple activity detection	No
Intelligent motion detection	Yes (with built in Post Filter)
Intelligent object detection	No
Network	
Protocols	TCP/IP, ARP, ICMP, HTTP, FTP (client/server), SMTP, DHCP, DNS, NTP, RTP/RTCP, SNMP (MIB-2) (Tentative)
Wireless network	Yes (With Optional card)
Number of clients	10
Authentication	IEEE802.1X
Interface	
Ethernet	10BASE-T/100BASE-TX (RJ-45)
Serial interface	RS-232C/RS-422 (PELCO D protocol)
Card slots	CF card x1
Analog 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
General	
Weight	Approx. 4.5 kg (9 lb 15 oz)
Dimensions	(ø x H) 238 x 346 mm (9 3/8 x 13 5/8 inches)
Power requirements	AC24V
Power consumption	82 W max. (Tentative)
Operating temperature	-40 to 50 °C
Storage temperature	-20 to 60 °C
System requirements	
Operating system	Windows XP/Vista®
System requirements	CPU: Intel® Pentium® IV 3GHz, Intel® Core™2 Duo 2GHz or higher, RAM: 1GB or more
Web browser	Microsoft Internet Explorer Ver6.0 or higher
Supplied Accessories	
	Base unit, Top sunshade, Rotate-and-lock coupling, Waterproof plug, Screws, Installation manual, CD-ROM (User's guide, SNC toolbox), Wire rope

DEPA Advanced

ONVIF

SNC-RS44P

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

Key Features and Benefits

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

XDNR noise reduction technology. Noise and Ghost free images with superior sensitivity in low light conditions

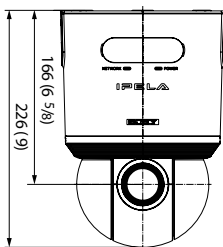**Visibility Enhancer.** Enhanced wide dynamic range improves performance in challenging lighting conditions

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

Standard Features and Benefits

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

Dimensions

Specifications

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

SNC-RS46P

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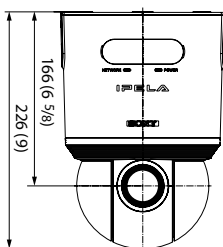

Key Features and Benefits

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

XDNR noise reduction technology. Noise and Ghost free images with superior sensitivity in low light 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

Specifications

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

SNC-RS84P

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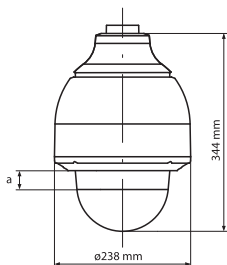
Key Features and Benefits

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

XDNR noise reduction technology. Noise and Ghost free images with superior sensitivity in low light 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

- **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

344 mm

a

ø238 mm

Specifications

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

SNC-RS86P

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

Key Features and Benefits

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

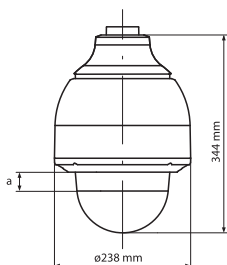**XDNR noise reduction technology.** Noise and Ghost free images with superior sensitivity in low light conditions

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

- **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

344 mm
a
ø238 mm

Specifications

Camera	
Image device	1/4-type CCD with Exwave HAD technology
Day/Night	Yes
Wide-D	Yes
Number of effective pixels	(H x V) 440,000
Electronic shutter speed	1 to 1/10,000s
Auto gain control	Auto/Manual (-3dB to +28dB)
Exposure control	Auto, Full auto, Shutter-priority, Iris-priority, Manual, EV compensation, Backlight compensation
White balance mode	Auto, Indoor, Outdoor, One-push WB, ATW, Manual
Lens type	Auto-focus zoom lens
Zoom ratio	18x
Horizontal viewing angle	2.8 to 48.0 degrees
Focal length	f=4.1 to 73.8mm
F-number	F1.4 (wide), F3.0 (tele)
Pan angle	360 degrees endless rotation
Pan speed	400 degrees/s (max.)
Tilt angle	210 degrees (with e-flip)
Tilt speed	400 degrees/s (max.)
Image	
Codec image size	(H x V) 720 x 576, 640 x 480, 320 x 240 (H.264, MPEG-4, JPEG)
Video compression format	H.264, MPEG-4, JPEG
Maximum frame rate	H264/MPEG-4/JPEG, 25 fps (720 x 576)
Audio	
Audio compression	G.711/G.726
Scene Analytics	
Simple activity detection	No
Intelligent motion detection	Yes (with built in Post Filter)
Intelligent object detection	No
Network	
Protocols	TCP/IP, ARP, ICMP, HTTP, FTP (client/server), SMTP, DHCP, DNS, NTP, RTP/RTCP, SNMP (MIB-2)
Wireless network	Yes (Optional card)
Number of clients	10 (Tentative)
Authentication	IEEE802.1X
Interface	
Ethernet	10BASE-T/100BASE-TX (RJ-45)
Serial interface	RS-232C/RS-422 (PELCO D protocol) (Tentative)
Card slots	CF card x1
Analog 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
General	
Weight	Approx. 4.5 kg (9 lb 15 oz)
Dimensions	(ø x H) 238 x 346 mm (9 3/8 x 15 5/8 inches)
Power requirements	AC24V
Power consumption	80 W max.
Operating temperature	-40 to 50 °C
Storage temperature	-20 to 60 °C
System requirements	
Operating system	Windows XP/Vista®
System requirements	CPU: Intel® Pentium® IV 3GHz, Intel® Core™2 Duo 2GHz or higher, RAM: 1GB or more
Web browser	Microsoft Internet Explorer Ver6.0 or higher
Supplied Accessories	
	Base unit, Top Sunshade, rotate and lock coupling, Waterproof plug, Screws, Cables (Power input, BNC, I/O, Serial), Installation manual, CD-ROM (User's guide, SNC toolbox), Wire rope

SSC-DC593P

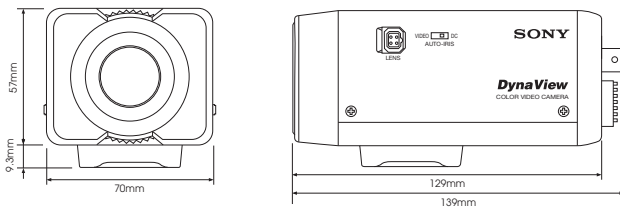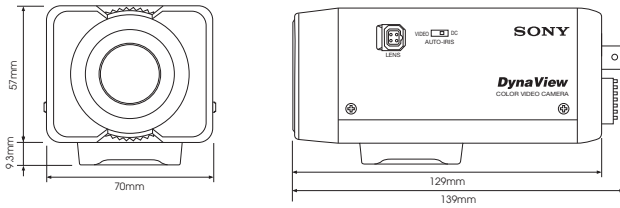High performance colour day/night camera,
low voltage operation.

Key Features and Benefits

1/3-type Interline Transfer CCD. High resolution, high sensitivity images under a wide ranging lighting conditions

DynaView™ technology. Provides excellent images under high contrast illumination conditions

Day/night function. Mechanical ICR filter provides excellent b/w images in low light conditions

Dimensions

57mm
9.3mm
70mm
129mm
139mm

Specifications

Camera	
Image device	1/3-type Interline Transfer CCD
Number of effective pixels (HxV)	752 x 582
Electronic shutter	1/50 to 1/100,000s (8 steps) OFF/MANUAL/CCD IRIS selectable
Auto gain control (AGC)	OFF/MANUAL/NORMAL/TURBO selectable
Exposure control	DYNAVIEW/SPOT/WEIGHT/OFF (BLC)
White balance modes	ATW PRO/ATW/3200K/5600K/MANUAL/DUAL WB
Lens mount	CS Mount
Interface	
Analogue connectivity	1.0 Vp-p; BNC (1) 75Ω, sync. negative
Analogue video output	
Video system	PAL Internal /External
Horizontal resolution	480 TV lines
S/N ratio	More than 50dB (AGC OFF, weight ON)
Sensitivity colour	0.8lx at F1.4 (50IRE)
Sensitivity monochrome	0.07lx at F1.4 (50IRE)
General	
Weight	500g (1lb 2oz)
Dimensions (W x H x D)	70 x 57 x 129mm
Power requirements	AC24V ±10%@50Hz or DC12V ±10%
Power consumption	5.8W (AC 24V)
Operating temperature	-10 to 50°C (14 to 122°F)
Storage temperature	-40 to 60°C (-40 to 140°F)
Supplied Accessories	
	CD-ROM (Setup Program and User's Guide), Wire Rope, Shoulder Screw M4, Installation Manual

SSC-DC598P

High performance colour day night camera, low voltage operation

Key Features and Benefits

1/3-type Interline Transfer CCD. High resolution, high sensitivity images under a wide ranging lighting conditions

DynaView™ technology. Provides excellent images under high contrast illumination conditions

Day/night function. Mechanical ICR filter provides excellent b/w images in low light conditions

Dimensions

Specifications

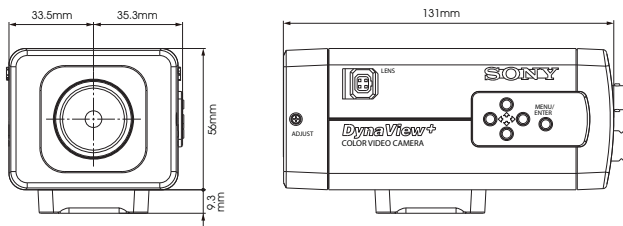| Camera	
Image device	1/3-type Interline Transfer CCD
Number of effective pixels (HxV)	752 x 582
Electronic shutter	1/50 to 1/10,000 (8 steps) OFF/MANUAL/CCD IRIS selectable
Auto gain control (AGC)	OFF/MANUAL/NORMAL/TURBO selectable
Exposure control	DYNAVIEW/SPOT/WEIGHT/OFF (BLC)
White balance modes	ATW PRO/ATW/3200K/5600K/MANUAL/DUAL WB
Lens mount	CS Mount
Interface	
Analogue connectivity	1.0Vp-p; BNC (1) 75Ω, sync. negative
Analogue video output	
Video system	PAL Internal/External
Horizontal resolution	480 TV lines
S/N ratio	More than 50dB (AGC OFF, weight ON)
Sensitivity colour	0.8lx at F1.4 (50IRE) (AGC ON, Turbo mode)
Sensitivity monochrome	0.07lx at F1.4 (50IRE) (AGC ON, Turbo mode)
General	
Weight	500g (1lb. 2oz)
Dimensions (W x H x D)	70 x 57 x 129mm
Power requirements	AC 220V to 240V ±10%, 50Hz
Power consumption	5.6W
Operating temperature	-10 to 50°C (14 to 122°F)
Storage temperature	-40 to 60°C (-40 to 140°F)
Supplied Accessories	
	CD-ROM (Setup Program and User's Guide), Wire Rope, Shoulder Screw M4, Installation Manual

SSC-DC693P

A fixed camera offering wide dynamic range for the capture of clear and detailed images even in high contrast conditions.

Key Features and Benefits

1/3-type image sensor. High resolution image capture in conditions of extreme contrast

DynaView™ technology. Provides excellent images under high contrast illumination conditions

Day/night function. Automatically provides monochrome images under low light conditions
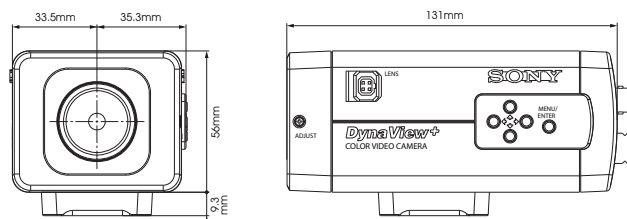
Dimensions

33.5mm 35.3mm 56mm 9.3mm 131mm

ADJUST LENS SONY DynaView+ COLOR VIDEO CAMERA MENU/ENTER

Specifications

Camera	
Image device	1/3-type image sensor with DynaView+ technology
Number of effective pixels (HxV)	720 x 540
Electronic shutter	1 to 1/10000s
Auto gain control (AGC)	CUSTOM Selectable (Max :48 dB)
Exposure control	Backlight compensation ON/OFF
White balance modes	ATW-PRO/ATW/MANUAL selectable
Lens mount	CS Mount
Interface	
Analogue connectivity	BNC, 1.0 Vp-p, 75Ω, sync. negative
Analogue video output	
Video system	PAL standard
Horizontal resolution	520 TV lines
S/N ratio	More than 50dB (AGC OFF)
Sensitivity colour	0.8lx at F1.2, 50IRE, AGC=High 2.1lx at F1.2, 50IRE, AGC=High
Sensitivity monochrome	0.01lx at F1.2, 50IRE, AGC=High 0.05lx at F1.2, 50IRE, AGC=High
General	
Zoom ratio	x4 digital zoom
Weight	Approx 420g
Dimensions (W x H x D)	56 x 68.8 x 131mm (without tripod)
Power requirements	AC 220-230V ±10%
Power consumption	Less than 8.0W
Operating temperature	-10 to 50°C
Storage temperature	-40 to 60°C
Supplied Accessories	
	Lens Mount Cap (1), Operating Instructions (1), Menu Operations (1), Fall-prevention Wire Rope (1), Screw (1), AC Power Cable (1, AC 220-240 V only)

SSC-DC698P

A fixed camera offering wide dynamic range for the capture of clear and detailed images even in high contrast conditions.

Key Features and Benefits

- **1/3-type image sensor.** High resolution image capture in conditions of extreme contrast
- **DynaView™ technology.** Provides excellent images under high contrast illumination conditions
- **Day/night function.** Automatically provides monochrome images under low light conditions

Standard Features and Benefits

- **Flexible AC and DC power requirements.** Flexible power options via automatically sensing of 12VDC or 24VAC power supplies

Dimensions

33.5mm   35.3mm

131mm

56mm

9.3 mm

Specifications

Camera	
Image device	1/3-type image sensor with DynaView+ technology
Number of effective pixels (HxV)	720 x 540
Electronic shutter	1 to 1/10000s
Auto gain control (AGC)	CUSTOM Selectable (Max :48 dB)
Exposure control	Backlight compensation ON/OFF
White balance modes	ATW-PRO/ATW/MANUAL selectable
Lens mount	CS Mount
Interface	
Analogue connectivity	BNC, 1.0 Vp-p, 75Ω, sync. negative
Analogue video output	
Video system	PAL standard
Horizontal resolution	520 TV lines
S/N ratio	More than 50dB (AGC OFF)
Sensitivity colour	0.8lx at F1.2, 50IRE, AGC=High 2.1lx at F1.2, 50IRE, AGC=High
Sensitivity monochrome	0.01lx at F1.2, 50IRE, AGC=High 0.05lx at F1.2, 50IRE, AGC=High
General	
Zoom ratio	x4 digital zoom
Weight	Approx 420g
Dimensions (W x H x D)	56 x 68.8 x 131mm (without tripod)
Power requirements	AC 220-230V ±10%
Power consumption	Less than 8.0W
Operating temperature	-10 to 50°C
Storage temperature	-40 to 60°C
Supplied Accessories	
	Lens Mount Cap (1), Operating Instructions (1), Menu Operations (1), Fall-prevention Wire Rope (1), Screw (1), AC Power Cable (1, AC 220-240 V only)

SSC-DC80P

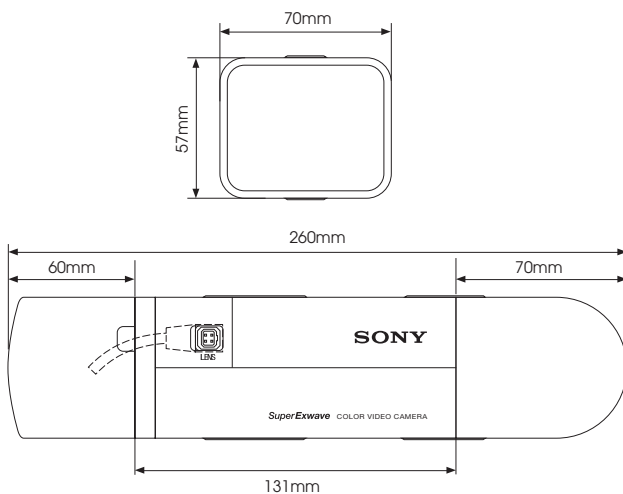The SSC-DC80P series is a colour video camera equipped with an Exwave HAD™* technology using a 1/2-inch type CCD.

Key Features and Benefits

½ **1/2-Exwave HAD™ technology.** Very high resolution, high sensitivity images in all lighting conditions

Standard Features and Benefits

- **Wide range CCD iris.** Allows use of manual iris lens by automatically adjusting image exposure under varied lighting conditions
- **Privacy zones.** Allows masking of sensitive images areas

Dimensions

70mm

57mm

260mm

60mm

70mm

SONY
LENS

Super **Exwave** COLOR VIDEO CAMERA

131mm

Specifications

Camera	
Image device	1/2-type CCD with Exwave HAD technology
Number of effective pixels (HxV)	768 x 494 (440,000)
Electronic shutter	ON/OFF, 1/50 to 1/100,000 switchable
Auto gain control (AGC)	Turbo/Normal/Manual/Off
Exposure control	SPOT/WEIGHT/OFF switchable (BLC)
White balance modes	ATW PRO/ATW/3200K/5600K/MANUAL
Lens mount	CS/C Mount (C-Mount adaptor is supplied)
Interface	
Analogue connectivity	BNC, 1.0Vp-p; 75Ω, sync. negative, S-Video x 1
Analogue video output	
Video system	PAL Internal/VS/VD
Horizontal resolution	480 TV lines
S/N ratio	More than 57dB (AGC OFF, weight ON)
Sensitivity colour	0.4lx (50IRE, F1.2, Turbo AGC ON)
General	
Weight	Approx 560g (1.4oz)
Dimensions (W x H x D)	70 x 57 x 131mm (without front and rear covers)
Power requirements	Multiplexing with the YS-W170P/W270P, or DC 12V ±10%
Power consumption	4.6W
Operating temperature	-10 to 50°C (14 to 122°F)
Storage temperature	-40 to 60°C (-40 to 140°F)
Supplied Accessories	
	CD-ROM (Setup Program and User's Guide), Wire Rope, Shoulder Screw M4, Installation Manual, C-Mount Ring Adaptor

SSC-DC83P

Offering outstanding picture quality, the feature rich SSC-DC83P is ideal for high-end video monitoring applications.
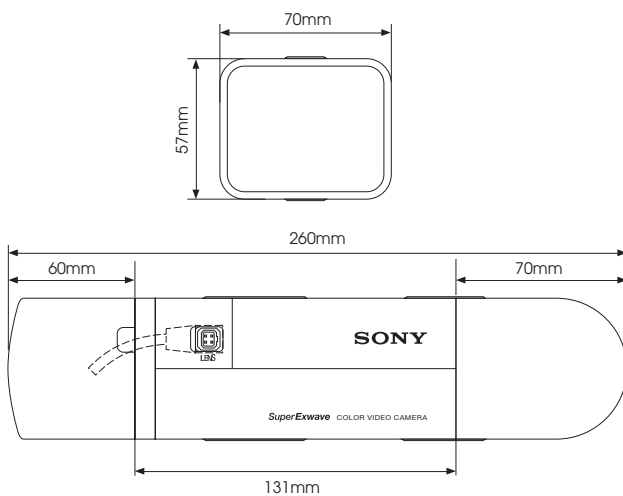
Key Features and Benefits

1/2-Exwave HAD™ technology. Very high resolution, high sensitivity images in all lighting conditions

Standard Features and Benefits

- **Wide range CCD iris.** Allows use of manual iris lens by automatically adjusting image exposure under varied lighting conditions
- **Privacy zones.** Allows masking of sensitive images areas
- **Custom templates.** Allows quick and easy set up for a wide range of applications

Dimensions

70mm

57mm

260mm

60mm

70mm

SONY

LENS

SuperExwave COLOR VIDEO CAMERA

131mm

Specifications

Camera	
Image device	1/2-type CCD with Exwave HAD technology
Number of effective pixels (HxV)	768 x 494 (440,000)
Electronic shutter	ON/OFF, 1/50 to 1/100,000 switchable
Auto gain control (AGC)	Turbo/Normal/Manual/Off
Exposure control	SPOT/WEIGHT/OFF switchable (BLC)
White balance modes	ATW PRO/ATW/3200K/5600K/MANUAL
Lens mount	CS/C Mount (C-Mount adaptor is supplied)
Interface	
Analogue connectivity	BNC, 1.0Vp-p; 75Ω, sync. negative, S-Video x 1
Analogue video output	
Video system	PAL Internal/AC Line lock/VS
Horizontal resolution	480 TV lines
S/N ratio	More than 57dB (AGC OFF, weight ON)
Sensitivity colour	0.4lx (50IRE, F1.2, Turbo AGC ON)
General	
Weight	Approx 550g (1.3oz)
Dimensions (W x H x D)	70 x 57 x 131mm (without Front/Rear Cover)
Power requirements	Multiplexing with the YS-W170P/W270P, or DC 12V ±10%, AC24V +-10%, 50Hz
Power consumption	4.4W
Operating temperature	-10 to 50°C (14 to 122°F)
Storage temperature	-40 to 60°C (-40 to 140°F)
Supplied Accessories	
	Front Cover x1, Rear Cover x1, Cover Screw x2, Lens Mount Cap x1, C Mount Adaptor x1, Menu Manual x1, Operation Manual x1

SSC-DC88P

Offering outstanding picture quality, the feature rich SSC-DC88P is ideal for high-end video monitoring applications.
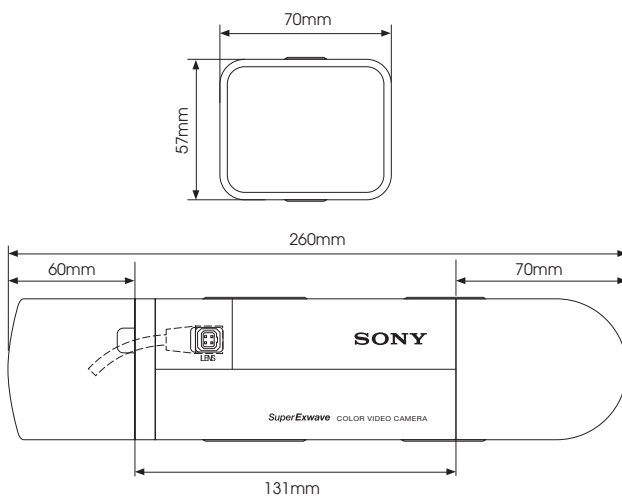
Key Features and Benefits

1/2 **1/2-Exwave HAD™ technology.** Very high resolution, high sensitivity images in all lighting conditions

Standard Features and Benefits

- **Wide range CCD iris.** Allows use of manual iris lens by automatically adjusting image exposure under varied lighting conditions
- **Privacy zones.** Allows masking of sensitive images areas
- **Custom templates.** Allows quick and easy set up for a wide range of applications

Dimensions

70mm

57mm

260mm

60mm

70mm

SONY

LENS

SuperExwave COLOR VIDEO CAMERA

131mm

Specifications

Camera	
Image device	1/2-type CCD with Exwave HAD technology
Electronic shutter	ON/OFF, 1/50 to 1/100,000 switchable
Auto gain control (AGC)	Turbo/Normal/Manual/Off
Exposure control	SPOT/WEIGHT/OFF switchable (BLC)
White balance modes	ATW PRO/ATW/3200K/5600K/MANUAL
Lens mount	CS/C Mount (C-Mount adaptor is supplied)
Interface	
Analogue connectivity	BNC, 1.0Vp-p; 75Ω, sync. negative, S-Video x 1
Analogue video output	
Video system	PAL Internal/AC Line lock/VS
Horizontal resolution	480 TV lines
S/N ratio	More than 57dB (AGC OFF, weight ON)
Sensitivity colour	0.4lx (50IRE, F1.2, Turbo AGC ON)
General	
Weight	Approx 600g (1.5oz)
Dimensions (W x H x D)	70 x 57 x 131mm (without front and rear covers)
Power requirements	Multiplexing with the YS-W170P/W270P, or DC AC 24V ±10%
Power consumption	4.2W
Operating temperature	-10 to 50°C (14 to 122°F)
Storage temperature	-40 to 60°C (-40 to 140°F)
Supplied Accessories	
	CD-ROM (Setup Program and User's Guide), Wire Rope, Shoulder Screw M4, Installation Manual, C-Mount Ring Adaptor

SSC-E413P

The SSC-E413P is equipped with a 1/3-type Super HAD™ CCD II, which offer improved sensitivity and colour reproduction compared to the conventional Super HAD CCD.
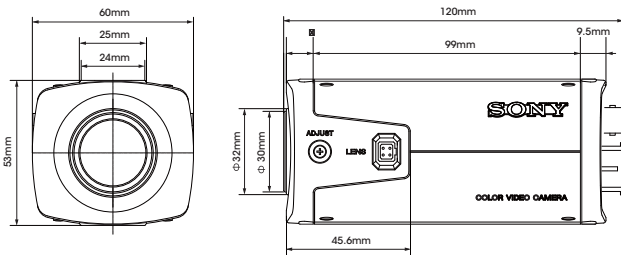
Key Features and Benefits

1/3-type Super HAD™ CCD II. Very high resolution, high sensitivity images in all lighting conditions

Automatic back light compensation. Offers excellent reproduction in varying levels of Illumination

Standard Features and Benefits

- **Auto CCD Iris function.** Provides image clarity under extreme background lighting conditions

Dimensions

Specifications

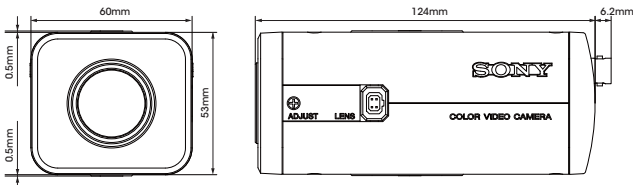| Camera	
Image device	1/3 type Super HAD CCD II
Number of effective pixels (HxV)	752 x 582
Electronic shutter	ON/OFF switchable, 1/50 to 1/ 100,000s
Auto gain control (AGC)	TURBO/OFF switchable
Exposure control	(BLC) ON/OFF switchable
White balance modes	Auto White Balance (ATW)
Lens mount	CS Mount
Interface	
Analogue connectivity	1.0Vp-p, 75Ω, sync negative
Analogue video output	
Video system	PAL standard Internal/Line Lock
Horizontal resolution	540 TV lines
S/N ratio	Better than 50dB (AGC OFF, WEIGHT ON)
Sensitivity colour	0.3lx at F1.2 (50IRE, AGC ON)
General	
Weight	360g (13oz)
Dimensions (W x H x D)	60 x 53 x 120mm
Power requirements	AC 24V +10%, 50Hz or DC 12V +10%
Power consumption	3.5W
Operating temperature	-10 to 50°C (14 to 122°F)
Storage temperature	-40 to 60°C (-40 to 140°F)

SSC-E418P

The SSC-E418P is equipped with a 1/3-type Super HAD™ CCD II, which offer improved sensitivity and colour reproduction compared to the conventional Super HAD CCD.

Key Features and Benefits

1/3-type Super HAD™ CCD II. Very high resolution, high sensitivity images in all lighting conditions

Automatic back light compensation. Offers excellent reproduction in varying levels of Illumination

Standard Features and Benefits

- **Auto CCD Iris function.** Provides image clarity under extreme background lighting conditions

Dimensions

Specifications

Camera	
Image device	1/3-type Super HAD CCD II
Number of effective pixels (HxV)	752 x 582
Electronic shutter	ON/OFF switchable, 1/50 to 1/ 100,000s
Auto gain control (AGC)	TURBO/OFF switchable
Exposure control	(BLC) ON/OFF switchable
White balance modes	Auto White Balance (ATW)
Lens mount	CS Mount
Interface	
Analogue connectivity	1.0Vp-p, 75Ω, sync negative
Analogue video output	
Video system	PAL standard Internal/Line Lock
Horizontal resolution	540 TV lines
S/N ratio	Better than 50dB (AGC OFF, WEIGHT ON)
Sensitivity colour	0.3lx at F1.2 (50IRE, AGC ON)
Sensitivity monochrome	0.05lx at F1.2 (50IRE, AGC ON)
General	
Weight	385g (14oz)
Dimensions (W x H x D)	60 x 53 x 120mm
Power requirements	AC 220v to 240V ±10%, 50Hz
Power consumption	3.5W
Operating temperature	-10 to 50°C (14 to 122°F)
Storage temperature	-40 to 60°C (-40 to 140°F)

SSC-E433P

Low voltage, 1/3-type Super HAD™ CCD II colour
video camera.

Key Features and Benefits

1/3-type Super HAD™ CCD II. Very high resolution, high sensitivity images in all lighting conditions

Day/night function. Mechanical ICR filter provides excellent b/w images in low light conditions

Automatic back light compensation. Provides image clarity under extreme background lighting conditions
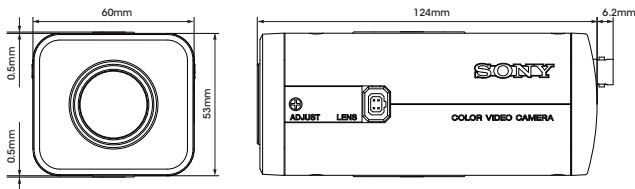
Dimensions

60mm · 0.5mm · 53mm · 0.5mm · 124mm · 6.2mm

Specifications

Camera	
Image device	1/3-type Super HAD CCD II
Number of effective pixels (HxV)	752 x 582
Electronic shutter	ON/OFF switchable, 1/50 to 1/ 100,000s
Auto gain control (AGC)	TURBO/OFF switchable
Exposure control	(BLC) ON/OFF switchable
White balance modes	Auto White Balance (ATW)
Lens mount	CS Mount
Interface	
Analogue connectivity	1.0Vp-p, 75Ω, sync negative
Analogue video output	
Video system	PAL standard Internal/Line Lock
Horizontal resolution	540 TV lines
S/N ratio	Better than 50dB (AGC OFF, WEIGHT ON)
Sensitivity colour	0.4lx at F1.2 (50IRE, AGC ON)
Sensitivity monochrome	0.05lx at F 1.2 (50IRE, AGC ON)
General	
Weight	390g (14oz)
Dimensions (W x H x D)	60 x 53 x 124mm
Power requirements	AC 24V +10%, 50Hz or DC 12V +10%
Power consumption	4.0W
Operating temperature	-10 to 50°C (14 to 122°F)
Storage temperature	-40 to 60°C (-40 to 140°F)
Supplied Accessories	
	Lens Mount Cap x1, Operating Instructions x1, Wire Rope x1, Screw x1

SSC-E438P

Mains voltage, 1/3-type Super HAD CCD II colour
video camera.

Key Features and Benefits

1/3-type Super HAD™ CCD II. Very high resolution, high sensitivity images in all lighting conditions

Day/night function. Mechanical ICR filter provides excellent b/w images in low light conditions

Automatic back light compensation. Provides image clarity under extreme background lighting conditions

Dimensions

60mm
0.5mm
53mm
0.5mm
124mm
6.2mm

SONY
ADJUST   LENS
COLOR VIDEO CAMERA

Specifications

Camera	
Image device	1/3-type Super HAD CCD II
Number of effective pixels (HxV)	752 x 582
Electronic shutter	ON/OFF switchable, 1/50 to 1/ 100,000s
Auto gain control (AGC)	TURBO/OFF switchable
Exposure control	(BLC) ON/OFF switchable
White balance modes	Auto White Balance (ATW)
Lens mount	CS Mount
Interface	
Analogue connectivity	1.0Vp-p, 75Ω, sync negative
Analogue video output	
Video system	PAL standard Internal/Line Lock
Horizontal resolution	540 TV lines
S/N ratio	Better than 50dB (AGC OFF, WEIGHT ON)
Sensitivity colour	0.4lx at F1.2 (50IRE, AGC ON)
Sensitivity monochrome	0.05lx at F 1.2 (50IRE, AGC ON)
General	
Weight	410g (14oz)
Dimensions (W x H x D)	60 x 53 x 124mm
Power requirements	AC 220V to 240V +10%, 50Hz
Power consumption	4.0W
Operating temperature	-10 to 50°C (14 to 122°F)
Storage temperature	-40 to 60°C (-40 to 140°F)
Supplied Accessories	
	Lens Mount Cap x1, Operating Instructions x1, Wire Rope x1, Screw x1

SSC-E473P

CS-Mount colour high resolution type with day/night function.

Key Features and Benefits

1/3-type CCD with SuperExwave™ technology. Very high resolution, high sensitivity images in all lighting conditions
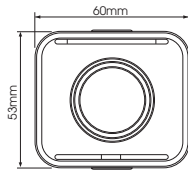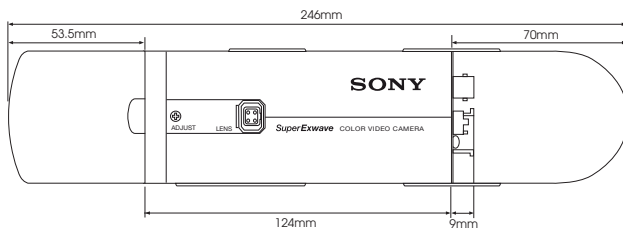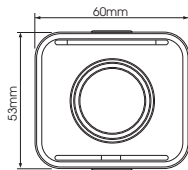
Day/night function. Mechanical ICR filter provides excellent b/w images in low light conditions

Standard Features and Benefits

- **Wide range CCD IRIS.** Allows use of manual iris lens by automatically adjusting image exposure under varied lighting

Dimensions

Specifications

Camera	
Image device	1/3-type Interline Transfer CCD
Number of effective pixels (HxV)	752 x 582
Electronic shutter	1/50 to 1/100,000s (8 steps) OFF/MANUAL/CCD IRIS selectable
Auto gain control (AGC)	OFF/MANUAL/NORMAL/TURBO selectable
Exposure control	On/Off switchable
White balance modes	ATW / ATW Pro
Lens mount	CS Mount
Interface	
Analogue connectivity	1.0Vp-p; BNC (1) 75Ω, sync. negative
Analogue video output	
Video system	PAL Internal/External
Horizontal resolution	540 TVL
S/N ratio	More than 50dB (AGC OFF, weight ON)
Sensitivity colour	0.55lx at F1.2 (50IRE, AGC Turbo ON)
Sensitivity monochrome	0.05lx at F1.2 (50IRE, AGC Turbo ON)
General	
Weight	380g (13oz)
Dimensions (W x H x D)	60 x 53 x 124mm (without front and rear covers)
Power requirements	AC 24V ±10% at 50Hz or DC 12V ±10%
Power consumption	4.0W
Operating temperature	-10 to 50°C (14 to 122°F)
Storage temperature	-40 to 60°C (-40 to 140°F)
Supplied Accessories	
	Lens Mount Cap x1, Operating Manual x1, Front Cover x1, Rear Cover x1, Screws x2

SSC-E478P

CS-mount colour high resolution type with day/night function.

Key Features and Benefits

⅓ 1/3-type CCD with SuperExwave™ technology. Very high resolution, high sensitivity images in all lighting conditions

☀☾ Day/night function. Mechanical ICR filter provides excellent b/w images in low light conditions

Standard Features and Benefits

- **Wide range CCD IRIS.** Allows use of manual iris lens by automatically adjusting image exposure under varied lighting

Dimensions

60mm
53mm

246mm
53.5mm
70mm

SONY
ADJUST   LENS   *SuperExwave* COLOR VIDEO CAMERA

124mm   9mm

Specifications

Camera	
Image device	1/3-type CCD with SuperExwave technology
Number of effective pixels (HxV)	752 x 582
Electronic shutter	On/Off Switchable, 1/60 to 1/100,000s
Auto gain control (AGC)	TURBO/OFF switchable
Exposure control	(BLC) ON/OFF switchable
White balance modes	Auto White Balance Pro (ATW Pro) Auto White Balance (ATW)
Lens mount	CS Mount
Interface	
Analogue connectivity	BNC, 1.0Vp-p; 75Ω, sync. negative
Analogue video output	
Video system	PAL standard Internal/Line Lock
Horizontal resolution	540 TV lines
S/N ratio	Better than 50dB (AGC OFF, WEIGHT ON)
Sensitivity colour	0.55lx at F1.2 (50IRE, AGC ON, Turbo mode)
Sensitivity monochrome	0.05lx at F1.2 (50IRE, AGC ON, Turbo mode)
General	
Weight	400g (14oz)
Dimensions (W x H x D)	60 x 53 x 124mm (without front/rear cover)
Power requirements	AC 220V to 240V ±10%, 50Hz
Power consumption	4.0W
Operating temperature	-10 to 50°C (14 to 122°F)
Storage temperature	-40 to 60°C (-40 to 140°F)
Supplied Accessories	
	Lens Mount Cap x1, Operating Manual x1, Front Cover x1, Rear Cover x1, Screws x2

SSC-G923

Delivering the highest resolution images in all lighting conditions and with a powerful array of unique and added value features and technology, the SSC-G923 from Sony represents the very latest in fixed camera technology.

Key Features and Benefits

Latest 1/3" Super HAD™ CCD II sensor. The very latest sensor technology delivers superior image performance for ultra low light and extended IR applications
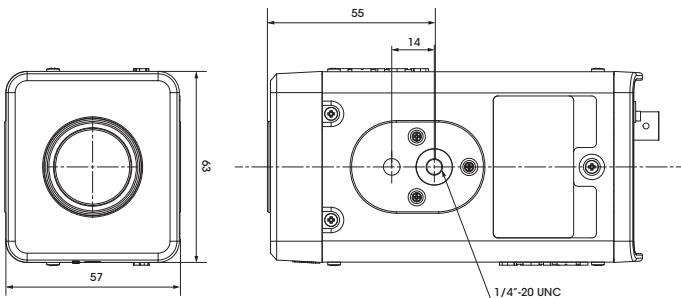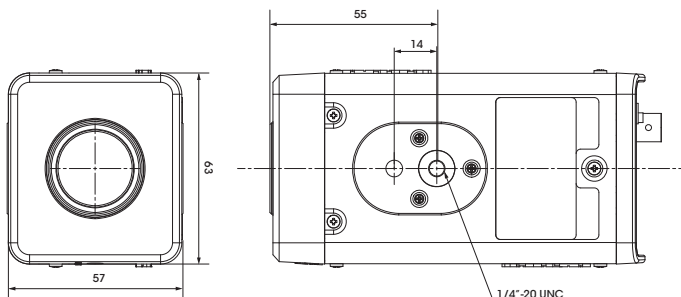
Ultra wide dynamic range capability with new DynaView EX technology. New, enhanced wide dynamic range technology delivers advanced 3 stage processing to provide the optimum imaging performance in the most challenging lighting conditions

Unique intelligent Face Detection function. Using an intelligent and face detection library, the camera can be used to detect a facial image and output an appropriate detection alarm. Combining this unique feature with an access control or detection system adds a powerful verification function and delivers significant benefits and added value to new and existing security systems

Standard Features and Benefits

- **650 TVL resolution.** Highest image resolution for the optimum in image quality

- **Mechanical IRC filter.** Perfect for use in low light and extended IR applications

- **Adaptive DNR (Digital Noise Reduction).** Utilizes advanced 2D and 3D filter technology to greatly reduce noise, providing superior image quality and detail in low light conditions

Dimensions

55
14
63
57
1/4"-20 UNC

Specifications

Camera	
Image Device	1/3 type Interline Transfer CCD with DynaViewEX technology
Picture Elements	976(H)x582(V)
Auto Iris Lens	DC servo or VIDEO servo Auto
VIDEO Level	Variable
AGC	OFF / Normal / Turbo / MANUAL
Shutter	1/50 to 1/100,000 (12steps) OFF / MANUAL / CCD-IRIS selectable
BLC	OFF / DynaViewEX / iBLC / SPOT
Dynamic Range	More than 75dB measured by JEITA method
Minimum Illumination	Colour: 0.22 lx at F1.2 (50 IRE, AGC ON, Turbo mode) 0.11 lx at F1.2 (30 IRE, AGC ON, Turbo mode) B/W: 0.06 lx at F1.2 (50 IRE, AGC ON, Turbo mode) 0.03 lx at F1.2 (30 IRE, AGC ON, Turbo mode)

Analogue video output	
Signal System	PAL standard
Horizontal Resolution	650TVL
S/N	Better than 50dB (AGC OFF)
Variable Gamma	OFF / SCENE1 / SCENE2 / SCENE3 / SCENE4 selectable
White Balance	ATW / ATW-PRO / 3200K / 5600K / Manual
Sharpness	SOFT / NORMAL / SHARP
Colour Saturation	L to H (4steps)
Optical Day/Night	Auto / External / Colour / B/W selectable
Activity Detection	ON / OFF selectable
Face Detection	ON / OFF selectable
Privacy Masking	ON / OFF selectable (with Area setting function)
Camera Title	Up to 24 characters (Alphabet, Arabic numeral and some marks) ON / OFF selectable (with 4 preposition)
User Preset	A / B / Reset selectable
Custom Templates	ENTRANCE / OFFICE / PARKIING / SUBWAY / LOBBY / STATION
Flip	OFF / VERT / HORIZ / BOTH selectable
Digital Noise Reduction	L to H (5steps)
Slow Shutter	FF / X2 / X4 / X8 / X16 / X32 /X64 /X128 /X256 /X512
Back Focus Adjustment	YES
Synch System	Internal / AC line lock selectable
RS-485 Address	1-255

General	
Weight	400g
Dimensions	W:63×H:57×L:129.1mm
Operating Temperature	-10°C to +50°C
Storage Temperature	-40°C to +60°C
Operating Humidity	20 to 80%
Storage Humidity	20 to 95%
Power Requirement	DC12V±10% or AC24V±10%, 50Hz
Power Consumption	2.8W

Supplied Accessories	
	Operating instructions
	Menu operations
	Fall-prevention wire rope
	Screw
	Lens mount cap

SSC-G928

Delivering the highest resolution images in all lighting conditions and with a powerful array of unique and added value features and technology, the SSC-G928 from Sony represents the very latest in fixed camera technology.

Key Features and Benefits

Latest 1/3" Super HAD™ CCD II sensor. The very latest sensor technology delivers superior image performance for ultra low light and extended IR applications

Ultra wide dynamic range capability with new DynaView EX technology. New, enhanced wide dynamic range technology delivers advanced 3 stage processing to provide the optimum imaging performance in the most challenging lighting conditions

Unique intelligent Face Detection function. Using an intelligent and face detection library the camera can be used to detect a facial image and output an appropriate detection alarm. Combining this unique feature with an access control or detection system adds a powerful verification function and delivers significant benefits and added value to new and existing security systems

Standard Features and Benefits

- **650 TVL resolution.** Highest image resolution for the optimum in image quality
- **Mechanical IRC filter.** Perfect for use in low light and extended IR applications
- **Adaptive DNR (Digital Noise Reduction).** Utilizes advanced 2D and 3D filter technology to greatly reduce noise, providing superior image quality and detail in low light conditions

Dimensions

Specifications

Camera	
Image Device	1/3 type Interline Transfer CCD with DynaViewEX technology
Picture Elements	976(H)x582(V)
Auto Iris Lens	DC servo or VIDEO servo Auto
Video Level	Variable
AGC	OFF / Normal / Turbo /MANUAL
Shutter	1/50 to 1/100,000 (12steps) OFF / MANUAL / CCD-IRIS selectable
BLC	OFF / DynaViewEX / iBLC / SPOT
Dynamic Range	More than 75dB measured by JEITA method Minimum illumination
Minimum Illumination	Colour: 0.22 lx at F1.2 (50 IRE, AGC ON, Turbo mode) 0.11 lx at F1.2 (30 IRE, AGC ON, Turbo mode) B/W: 0.06 lx at F1.2 (50 IRE, AGC ON, Turbo mode) 0.03 lx at F1.2 (30 IRE, AGC ON, Turbo mode)
Variable Gamma	FF / SCENE1 / SCENE2 / SCENE3 / SCENE4 selectable
White Balance	ATW / ATW-PRO / 3200K / 5600K / Manual
Sharpness	SOFT / NORMAL / SHARP
Colour Saturation	L to H (4steps)
Optical Day/Night	Auto / External / Colour / B/W selectable
Activity Detection	ON / OFF selectable
Face Detection	ON / OFF selectable
Privacy Masking	ON / OFF selectable (with Area setting function)
Camera Title	Up to 24 characters (Alphabet, Arabic numeral and some marks) ON / OFF selectable (with 4 preposition)
User Preset	A / B / Reset selectable
Custom Templates	ENTRANCE / OFFICE / PARKIING / SUBWAY / LOBBY / STATION
Flip	OFF / VERT / HORIZ / BOTH selectable
Digital Noise Reduction	L to H (5steps)
Slow Shutter	OFF / X2 / X4 / X8 / X16 / X32 /X64 /X128 /X256 /X512
Back Focus Adjustment	YES
Synch System	Internal / AC line lock selectable
RS-485 Address	1-255
Analogue video output	
Signal System	PAL standard
Horizontal Resolution	650TVL
S/N	Better than 50dB (AGC OFF)
General	
Weight	420g
Dimensions	W:63×H:57×L:129.1mm
Operating Temperature	-10°C to +50°C
Storage Temperature	-40°C to +60°C
Operating Humidity	20 to 80%
Storage Humidity	20 to 95%
Power Requirement	220-240VAC±10%, 50Hz
Power Consumption	3.5W
Supplied Accessories	
	Operating instructions
	Menu operations
	Fall-prevention wire rope
	Screw
	Lens mount cap
	AC power cable

SSC-CD13VP

A fixed indoor mini dome camera offering high performance in a competitive package.
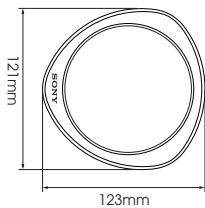
Key Features and Benefits

1/4 type Super HAD™ CCD. High resolution image capture with low light performance

Automatic back light compensation. Meets a wide range of viewing angle requirements under varying lighting conditions
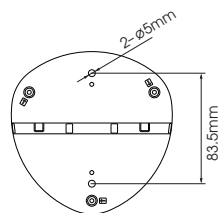
Standard Features and Benefits

- **3.0 – 8mm vari-focal lens with Auto Iris capability.** CS lens options offer the maximum flexibility to match installation requirements

- **Optional interchangeable lens options available.** High performance image capture in high contrast scene conditions

- **Easy installation with 4 different mounting styles.** Wide range of mounting options allows ease of installation and mounting flexibility

- **Flexible AC and DC power requirements.** Flexible power options via automatically sensing of 12VDC or 24VAC power supplies

Specifications

Camera	
Image device	1/4 type Super HAD CCD
Number of effective pixels (HxV)	752 x 582
Electronic shutter	1/50 to 1/100,000 sec (when using manual iris lens)
Auto gain control (AGC)	Turbo AGC/OFF switchable
Exposure control	BLC - ON (Centre measured) / OFF switchable
White balance modes	ATW, 2,200K to 10,000K
Lens type	Auto iris vari-focal lens
Lens mount	CS Mount
Horizontal viewing angle	W=84.7° (D), 66.6° (H), 49.3° (V). T=33.6° (D), 26.9° (H), 20.1° (V)
Focal length	f=3.0 to 8.0mm
F-number	F1.0
Minimum object distance	0.2m
Interface	
Analogue connectivity	BNC, 1.0Vp-p, 75Ω, sync negative. Internal or AC line lock (for AC 24V)
Analogue video output	
Video system	PAL
Horizontal resolution	480 TV lines
S/N ratio	More than 50dB (AGC OFF, Weight ON)
Sensitivity colour	0.4lx at F1.0 (30IRE, AGC ON) 0.8lx at F1.0 (50IRE, AGC ON)
General	
Weight	Approx. 440g (16oz)
Dimensions (W x H x D)	121 x 106 x 123mm
Power requirements	AC 24V ±10% or DC 12V ±10 %
Power consumption	3.3W
Operating temperature	-20°C to +50°C (-4°F to +122°F)
Storage temperature	-40°C to +60°C (-40°F to +140°F)
Supplied Accessories	
	Operating instructions(1), Dome Cover Screw(1)

Dimensions

Top View

121mm
123mm

Rear View

2- ⌀5mm
83.5mm

Side View

Front View

61mm
106mm

SSC-CD45P

This compact and discreet analogue mini-dome camera delivers superior indoor security and surveillance monitoring with features such as a 1/3-type Super HAD CCD.

Key Features and Benefits

1/3-type Super HAD™ CCD. High resolution, high sensitivity images

Standard Features and Benefits

- **Sony-patented ball-joint lens mount mechanism.** Allows flexibility in camera positioning

- **Flexible and easy installation.** Simple yet flexible mounting options

Dimensions

ø5mm hole x 2

97.5mm

ø126mm

83.5mm
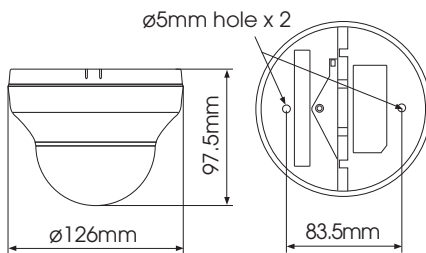
Specifications

Camera	
Image device	CD77 Super HAD technology
Number of effective pixels (HxV)	440,000 (752 x 582)
Auto gain control (AGC)	ON / OFF
Exposure control	Back Light Compensation ON / OFF
White balance modes	ATW (2000K - 10000K) / ATW Pro (2500K - 6500K)
Lens type	Auto iris vari-focal lens
Lens mount	Ball-Joint Mount
Horizontal viewing angle	100.8° to 27.7°
Focal length	f=2.8 . 10mm
F-number	F1.3 (Wide end), F3.0 (Tele end)
Minimum object distance	300mm
Interface	
Analogue connectivity	Composite video (1Vp-p). Line Lock / Internal
Analogue video output	
Video system	PAL
Horizontal resolution	540 lines
S/N ratio	More than 50dB (AGC OFF)
Sensitivity colour	0.9lx (50IRE, F1.3, AGC ON)
General	
Zoom ratio	x3.6 optical zoom (x1.5 digital zoom)
Weight	Approx. 440g
Dimensions (W x H x D)	126 x 97.5mm
Power requirements	AC 24V, DC 12V
Power consumption	4.0W max.
Operating temperature	-20 to +50°C (-4 to +122°F)
Storage temperature	-40 to +60°C (-40 to +140°F)
Supplied Accessories	
	Operating Instructions, Template, M4 Shoulder Screw, Wire Rope

SSC-CD49P

The SSC-CD49P is a compact and discreet dome camera designed for indoor security and surveillance monitoring applications.

Key Features and Benefits

1/3-type CCD. High resolution, high sensitivity images under wide ranging illumination conditions

DynaView™ technology. Provides excellent images under high contrast illumination conditions

Standard Features and Benefits

- **Wide dynamic range With DynaView™ technology.**

- **Sony patented Ball-Joint Lens Mount mechanism.** Allows flexible camera positioning

- **24V AC and 12V DC operation.** Flexible power supply options with auto voltage detect function

- **Easy mounting and installation.** Simple yet flexible mounting options

Dimensions

ø5mm hole x 2

97.5mm

ø126mm

83.5mm

Specifications

Camera	
Image device	1/3-type CCD with DynaView Technology
Number of effective pixels (HxV)	440,000 (752 x 582)
Auto gain control (AGC)	ON/OFF
Exposure control	DynaView ON/OFF (BLC)
White balance modes	ATW/ATW Pro
Lens type	Auto iris vari-focal lens
Lens mount	Ball-Joint Mount
Horizontal viewing angle	100.8° to 27.7°
Focal length	f=2.8 to 10.0mm
Interface	
Analogue connectivity	BNC x1, 1.0Vp-p, 75Ω, RCA x 1
Analogue video output	
Video system	PAL (Composite) AC Line Lock/Internal Lock
Horizontal resolution	480 TV lines
S/N ratio	More than 50dB (AGC ON/Weight ON)
Sensitivity colour	0.7lx (50IRE, F1.3, AGC ON)
General	
Zoom ratio	x3.6 optical zoom (x1.5 digital zoom)
Weight	Approx. 440g (15lb)
Dimensions (W x H x D)	Approx. 126 x 97mm
Power requirements	AC 24V/DC 12V
Power consumption	4.2W max.
Operating temperature	-20 to +50°C (-4 to +122°F)
Storage temperature	-40 to +60°C (-40 to +140°F)
Supplied Accessories	
	CD-ROM (Setup Program and User's Guide), Wire Rope, Shoulder Screw M4, Installation Manual

SSC-CD73VP

The SSC-CD73VP is the latest addition to the Sony mini fixed dome colour camera line-up.

Key Features and Benefits

¼ 1/4-type Super HAD™ CCD. High resolution, high sensitivity images

Day/night function. Mechanical ICR filter provides excellent b/w images in low light conditions

IP66 IP66 rated with ruggedised design. Ideal for use in outdoor conditions

Standard Features and Benefits

- **24V AC and 12V DC operation.** Flexible power supply options with auto voltage detect function
- **Easy mounting and installation.** Simple yet flexible mounting options

Dimensions

Top View

147mm

148mm

Rear View

24.6mm

4- Ø4.5mm

24.6mm

85.7mm

85.7mm

Side View

Front View

65mm

111mm
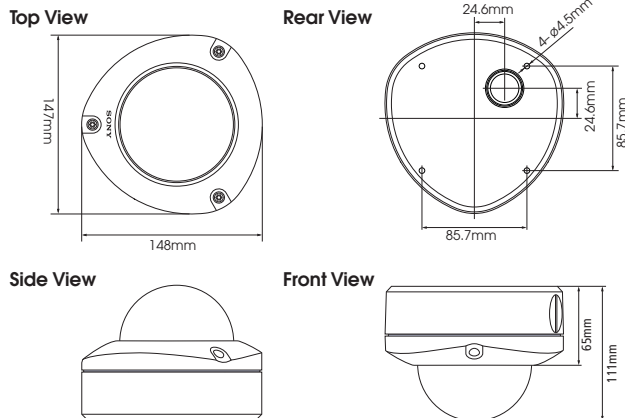
Specifications

Camera	
Image device	1/4-type Super HAD CCD
Number of effective pixels (HxV)	752 x 582
Electronic shutter	1/50 to 1/100000s (CCD IRIS)
Auto gain control (AGC)	Turbo AGC (up to 24dB) / OFF switchable
Exposure control	ON (Centre measured) / OFF switchable (BLC)
White balance modes	ATW, 2,000K to 10,000K
Lens type	Vari-focal auto iris lens
Lens mount	CS Mount
Horizontal viewing angle	(H) 66.6° (wide), 26.9° (tele) (V) 49.3° (wide), 20.2° (tele)
Focal length	f=3.0 to 8.0mm
F-number	F 1.0
Minimum object distance	0.2m
Interface	
Analogue connectivity	BNC, 1.0Vp-p, 75Ω, sync negative
Analogue video output	
Video system	PAL Internal or AC line lock (for AC 24V)
Horizontal resolution	480 TV lines
S/N ratio	More than 50dB (AGC OFF, Weight ON)
Sensitivity colour	0.4lx at F1.0 (30IRE, AGC ON). 0.9lx at F1.0 (50IRE, AGC ON)
Sensitivity monochrome	0.1lx at F1.0 (30IRE, AGC ON). 0.2lx at F1.0 (50IRE, AGC ON)
General	
Weight	Approx 1150g (2lb 10oz)
Dimensions (W x H x D)	Base: 147 x 111 x 148mm Bubble: 94mm
Power requirements	AC 24V/DC 12V (automatic switching)
Power consumption	3.6W
Operating temperature	-20 to +50°C (-4 to +122°F)
Storage temperature	-40 to +60°C (-40 to +140°F)
Supplied Accessories	
	Screw x4, Operating Instructions, Monitor Cable x1, Screwdriver x1

CCTV MINI-DOME CAMERAS

SSC-CD75P

Vandal-resistant mini-dome camera for indoor or outdoor use with a 1/3-type Super HAD CCD that provides high sensitivity levels and picture quality.

Key Features and Benefits

1/3-type CCD with Super HAD™ Technology. High resolution, high sensitivity images

IP66 **IP66 rated with ruggedised design.** Ideal for use in outdoor conditions

Additional analogue output. Allows simple access to set up video images during installation

Standard Features and Benefits

- **24V AC and 12V DC operation.** Flexible power supply options with auto voltage detect function
- **Easy mounting and installation.** Simple yet flexible mounting options

Dimensions

∅177.5mm

141.5mm

R44.5mm

Conduit hole (19mm)

Specifications

Camera	
Image device	1/3-type CCD with Super HAD Technology
Number of effective pixels (HxV)	440,000 (752 x 582)
Auto gain control (AGC)	ON/OFF (switchable)
Exposure control	ON/OFF (BLC)
White balance modes	ATW/ATW Pro
Lens type	Auto iris vari-focal lens
Lens mount	Ball Joint Mount
Horizontal viewing angle	100.8° to 27.7°
Focal length	f=2.8 to 10.0mm
Interface	
Analogue connectivity	BNC x1, 1.0Vp-p, 75Ω, RCA x 1
Analogue video output	
Video system	PAL (Composite) AC Line Lock/Internal Lock
Horizontal resolution	540 TV lines
S/N ratio	More than 50dB (AGC ON/Weight ON)
Sensitivity colour	0.9lx (50IRE, F1.3, AGC ON)
General	
Zoom ratio	x3.6 optical zoom (x1.5 digital zoom)
Weight	Approx 1.75kg (3lb 11oz)
Dimensions (W x H x D)	Approx. 177 x 141mm
Power requirements	AC 24V/DC 12V
Power consumption	4W max. (16W with heater option)
Operating temperature	-20 to +50°C (-4 to +122°F)
Storage temperature	-40 to +60°C (-40 to +140°F)
Supplied Accessories	
	Bracket x1, Template x1, Torx Wrench x1, M4 Screws x4, Wire Rope x1, M4 Shoulder Screw x1, Operating Instructions

SSC-CD77P

Superior sensitivity, vandal-resistant, day/night fixed mini-dome camera with SuperExwave technology.

Key Features and Benefits

⅓ **1/3-type CCD with SuperExwave™ technology.** Very high resolution, high sensitivity images in all lighting conditions

☀☾ **Day/Night function.** Mechanical ICR filter provides excellent b/w images in low light conditions

IP66 **IP66 rated with ruggedised design.** Ideal for use in outdoor conditions

Standard Features and Benefits

- **Sony-patented Ball-Joint Lens Mount mechanism.** Allows flexible camera positioning

Dimensions

ø177.5mm

141.5mm

R44.5mm

Conduit hole (19mm)

Specifications

Camera	
Image device	1/3-type Super Exwave Technology
Number of effective pixels (HxV)	440,000 (752 x 582)
Auto gain control (AGC)	ON/OFF
Exposure control	ON / OFF (BLC)
White balance modes	ATW/ATW Pro
Lens type	Auto iris vari-focal lens
Lens mount	Ball-Joint Mount
Horizontal viewing angle	100.8° to 27.7°
Focal length	f=2.8 to 10.0mm
F-number	F1.3 (wide), F3.0 (tele)
Minimum object distance	300mm
Interface	
Analogue connectivity	BNC x1, 1.0Vp-p, 75Ω, RCA x 1
Analogue video output	
Video system	PAL (Composite) AC Line Lock/Internal Lock
Horizontal resolution	540 TV lines
S/N ratio	More than 50dB (AGC ON, weight ON)
Sensitivity colour	0.6lx (50IRE, F1.3, AGC ON) B&W : 0.06lx (50IRE, F1.3, AGC ON)
General	
Zoom ratio	x3.6 optical zoom (x1.5 digital zoom)
Weight	Approx 1.75kg (3lb 11oz)
Dimensions (W x H x D)	Approx. 177 x 141mm
Power requirements	AC 24V/DC 12V
Power consumption	4W max. (16W with heater option)
Operating temperature	-20 to 50°C (-4 to 122°F), -40 to 50°C (-40 to 122°F) with heater unit
Storage temperature	-40 to +60°C (-40 to +140°F)
Supplied Accessories	
	Bracket x1, Template x1, Torx Wrench x1, M4 Screws x4, Wire Rope x1, M4 Shoulder Screw x1, Operating Instructions

SSC-CD79P

Vandal-resistant mini-dome camera designed for either indoor or outdoor use. Incorporates DynaView technology, providing clear images even in extreme high-contrast environments.

Key Features and Benefits

1/3-type CCD with DynaView™ technology. High resolution, high sensitivity images under wide ranging illumination conditions

Day/Night function. Mechanical ICR filter provides excellent b/w images in low light conditions

IP66 rated with ruggedised design. Ideal for use in outdoor conditions

Standard Features and Benefits

- **Wide dynamic range with DynaView technology.** Provides excellent images under high contrast illumination conditions

Dimensions

ø150mm
119mm
22.5mm
R44.5mm
Conduit hole 19mm

Specifications

Camera	
Image device	1/3-type CCD with DynaView Technology
Number of effective pixels (HxV)	440,000 (752 x 582)
Electronic shutter	Auto
Auto gain control (AGC)	ON/OFF
Exposure control	ON/OFF (BLC)
White balance modes	ATW/ATW Pro
Lens type	Auto iris vari-focal lens
Lens mount	N/A
Horizontal viewing angle	100.8° to 27.7°
Focal length	f=2.8 to 10.0mm
F-number	F1.3 (wide), F3.0 (tele)
Minimum object distance	300mm
Interface	
Analogue connectivity	BNC x1, 1.0Vp-p, 75Ω, RCA x 1
Analogue video output	
Video system	PAL (Composite) AC Line Lock/Internal Lock
Horizontal resolution	480 TV lines
S/N ratio	More than 50dB (AGC ON, weight ON)
Sensitivity colour	0.7lx (50IRE, F1.3, AGC ON)
General	
Weight	Approx 1.3kg
Dimensions (W x H x D)	Approx. 150 x 119mm
Power requirements	AC 24V/DC 12V
Power consumption	4W max
Operating temperature	-20 to +50°C (-4 to +122°F)
Storage temperature	-40 to +60°C (-40 to +140°F)
Supplied Accessories	
	Bracket x1, Template x1, Torx Wrench x1, M4 Screws x4, Wire Rope x1, M4 Shoulder Screw x1, Operating Instructions

SNT–EX/EP/101/104/154 Series

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

Key Features

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

Benefits

- Delivers the highest possible image quality
- Existing analogue cameras benefit from noise and ghost free images with superior sensitivity in low light 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 3 pre-recorded messages which may be replayed via manual or alarm activation
- Flexible support for 3rd party telemetry cameras via RS-422, RS-485 and Coaxitron interfaces
- Continuous, pre and post event recording may be stored using USB memory devices
- Maximum interoperability and flexibility with a wide range of manufacturers' network video products

Peripherals

SNT-RS3U
3U rack station, houses up to 12 SNT-EX/EP154 blade encoders to provide a maximum of 48 analogue input channels

Optional Accessories

SNTA-RP1
Rack station power supply unit, provides a redundant power supply system for the SNT-RS1U and SNT-RS3U rack stations

Configurations

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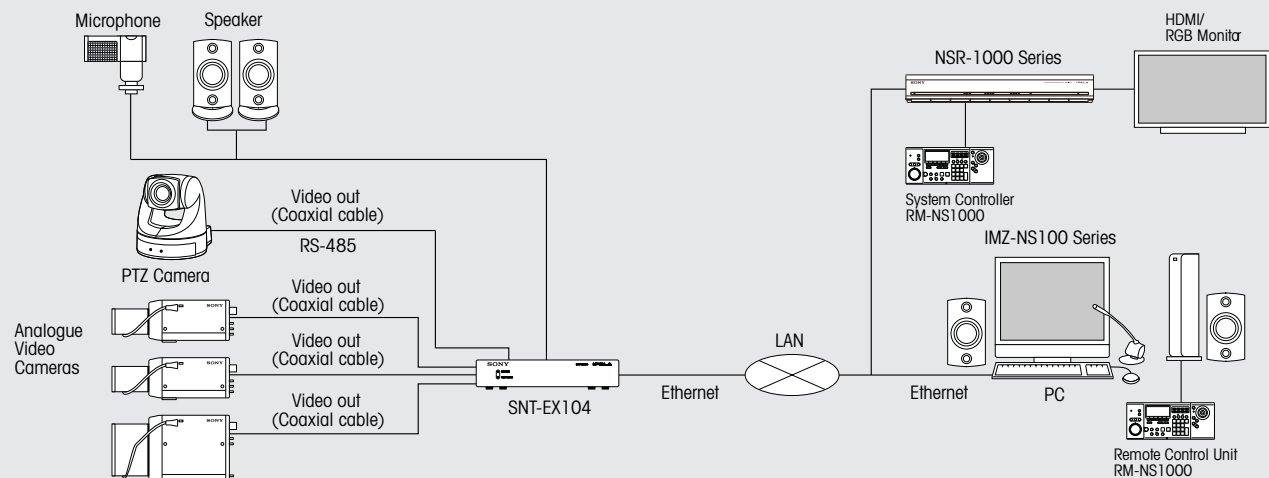
Sony's unique XDNR (Excellent Dynamic Noise Reduction),VE (Visibility Enhancer), DFI (Dynamic Frame Integration) technology and DEPA Advanced (Distributed Enhanced Processing Architecture), combine with RS-485 and Coaxitron telemetry options to deliver superior image quality, powerful video and audio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

Specifications

	SNT-EX101	SNT-EX101E	SNT-EX104	SNT-EP104	SNT-EX154	SNT-EP154
Encoder Features						
Visibility enhancer	Yes					
XDNR	Yes					
Coaxitron control	Yes			No	Yes	No
Interface						
Analogue video input	x1		x4			
Composite buffered through out	x1		–			
Ethernet	10Base-T/100Base-TX (RJ-45)					
Serial interface	RS-422/RS-485		RS-485	–	RS-485	–
USB Memory slots	x1		x4	–		
Sensor input	x2		x4	–	x4	–
Alarm output	x2		x4	–	x4	–
Audio interface (IN/OUT)	IN x1, OUT x1		IN x4, OUT x4	–	IN x1, OUT x1	–
External microphone input	Mini-jack (monaural), MIC IN/LINE IN: oover 2.2kohm, 2.45VDC plug-in power			–	Mini-jack (monaural), MIC IN/LINE IN: over 2.2kohm, 2.45VDC plug-in power	–
Audio line output	Mini-jack (monaural), Max output level: 1,5Vp-p			–	Mini-jack (monaural), Max output level: 1,5Vp-p	–
Image						
Codec image size (HxV)	D1 (NTSC: 720 x 480, PAL: 720 x 576), VGA (640 x 480), CIF (384 x 288), QVGA (320 x 240)					
Video compression format	H.264, MPEG-4, JPEG					
Maximum frame rate	H264/MPEG-4/JPEG: 30 fps (NTSC: 720 x 480, PAL: 720 x 576)					
Audio						
Audio compression	G.711/G.726		–	G.711/G.726		–
Scene Analytics						
Intelligent motion detection	Yes (with built-in Post Filter)			No	Yes (with built-in Post Filter)	No
Motion detection	No			Yes	No	Yes
Advanced audio detection	Yes			No	Yes	No
Network						
Protocols	IPv4, IPv6, TCP, UDP, ARP, ICMP. IGMP, HTTP, HTTPS, FTP (client/server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP (MB-2)					
Number of clients	10					
Authentication	IEEE802.1X					
Number of IP address/ Mac address	x1		x4			
General						
Weight	Approx. 0.4kg (14 oz)		Approx. 1.4kg (2 lb 3 oz)	Approx. 1.3kg (2 lb 3 oz)	Approx. 0.4kg (14 oz)	
Dimensions (W x H x D)	73 x 34 x 155 mm 2 7/8 x 1 3/8 x 6 1/8 inches)		210 x 44 x 250 mm 8 3/8 x 1 3/4 x 9 7/8 inches)		78 x 34 x 382 mm 3 1/8 x 1 3/8 x 15 1/8 inches)	
Power requirements	AC 24V (In ±20%, Out)	PoE (802.af)	DC 12V		From Rack Station	
Power consumption	9.6W max.		14.4W max.	12W max.		
Operating temperature	0 to 50°C		0 to 45°C			
Storage temperature	-20 to 60°C					
System requirements						
Operating system	Microsoft Windows Vista®					
Processor	Intel® Core™2 Duo, 1.8GHz or higher.					
Memory	1GB or more					
Web browser	Microsoft Internet Explorer Ver. 6.0, Ver. 7.0					
Supplied Accessories						
	CD-ROM (User's Guide and supplied programs) (1), Installation Manual (1), B&P Warranty Booklet (1), I/O port connector (1), 24V AC connector (1), Attachment brackets (4), Attachment screws (8)		CD-ROM (User's Guide and supplied programs) (1), Installation Manual (1), B&P Warranty Booklet (1), AC adaptor (AC-NB 12A) (1), Power cord (1), I/O port connector (SNT-EX104 only) (1)		Installation Manual (1), B&P Warranty Booklet (1), I/O port connector (Only SNT-EX154) (1), Attachment screws (2)	

NSR-1050H/1100/1200

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

Key Features

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

Benefits

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

Configurations

Standalone Configuration

Analogue Cameras (Max. 16 Units)

*1

NSR-1000 Series

HDMI/
RGB Monitor*2

Network

NSRE-S200
HDD Expansion Unit
(Max. 7 Units)

HDMI/
RGB Monitor*2

Sony's Network Cameras

Third-Party Network Cameras
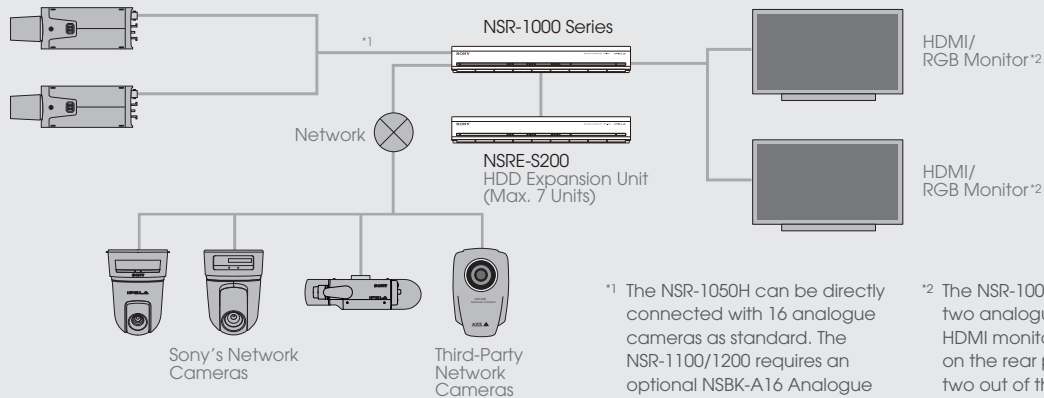
*1 The NSR-1050H can be directly connected with 16 analogue cameras as standard. The NSR-1100/1200 requires an optional NSBK-A16 Analogue Encoding Kit.

*2 The NSR-1000 Series has two analogue RGB and two HDMI monitor output connectors on the rear panel. You can use two out of the four outputs simultaneously in any combination.

Client-Server Configuration

Sony's Network Cameras

Machine Room

NSR-1000 Series

Monitoring Room

Network

Network

Controller Software Installed PC

Third-Party Network Cameras
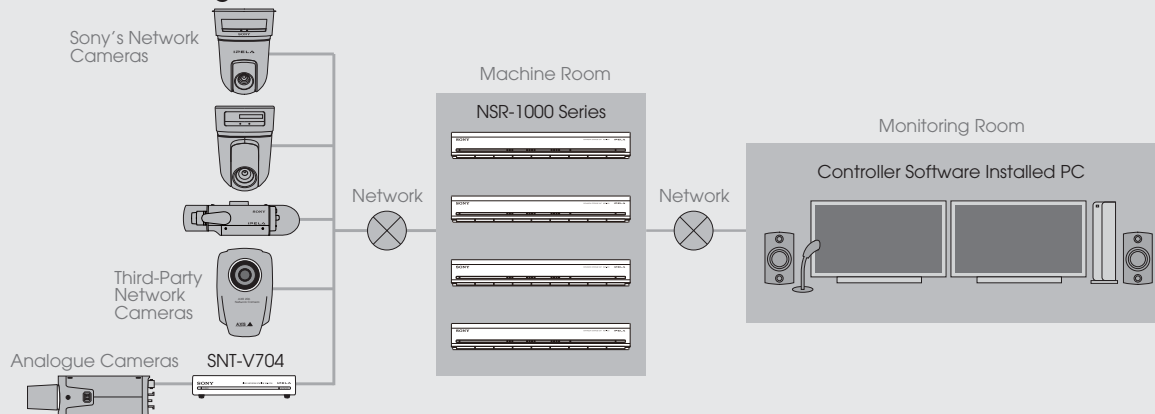
Analogue Cameras   SNT-V704

Video/Recording		NSR-1200	NSR-1100	NSR-1050H
Number of Cameras Supported (IP/Analogue Total)		Max. 64	Max. 32	Max. 20
Analogue Camera Input		Option (NSBK-A16)		16ch Video Input/ 4ch Audio Input (Supplied Cable)
Video Compression (IP-Camera)		MPEG-4 or JPEG		
Video Compression (Analogue-Camera)		MPEG-4		MPEG-4
Maximum Recording Rate		480fps	240fps	120fps
Hard Disk Drives (Physical Capacity)		2000GB (500GB x4)	1000GB (500GB x2)	500GB (500GB x1)
Hard Disk Drives (RAID Level)		RAID 5	RAID 0	–
Hard Disk Drives (Recording Capacity)		1366GB	886GB	443GB
Expansion Storage		Supports NSRE-S200 (2000GB) (Max. 7 Units)		
Video Interface				
Monitor Out #1 (HDMI or Analogue)	HDMI Output	HDMI (A-type) x1		
	Analogue RGB Output	D-sub 15pin x1 (Front) or D-sub 15pin x1 (Rear) *2		
Monitor Out #2 (HDMI or Analogue)	HDMI Output	HDMI (A-type) x1		
	Analogue RGB Output	D-sub 15pin x1		
Audio Interface				
Line Out		RCA-pin, L/R x1 stereo pair		
Sensor/Alarm				
Sensor In		8-channel photo-coupler (DC3.3-24V)		
Alarm Out		8-channel relay (Max. 24V 1A)		

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

*1 Port #1 to #3 can be used as ordinary LAN ports. Port #4 cannot be used alone. Channel Bond is supported by #3 and #4.
*2 The D-sub 15-pin (Front) and D-sub 15-pin (Rear) Connectors cannot be used simultaneously.

Storage Capacity	NSR-1200
Hard Disk Drives (Physical Capacity)	2000GB (500GB x4)
Hard Disk Drives (RAID Level)	RAID 5
Hard Disk Drives (Recording Capacity)	1366GB
Interfaces	
SAS (Serial Attached SCSI) 1.1 Input	SFF-8088 type x1
SAS (Serial Attached SCSI) 1.1 Output	SFF-8088 type x2
Ethernet (For Maintenance)	100Base-TX/10Base-T auto x1
Serial Interface (For Maintenance)	RS-232C x1
General	
Dimensions (W x H x D)	430mm x 87mm x 417mm (17 x 3½ x 16½ inches) (exclusive projections)
Mass	Approx. 13.5Kg (29lbs 12oz)
Power Requirements	100V to 127V/200V to 240V, AC (50/60Hz)
Power Consumption	265W (typical)
Operating Temperature	5 to 40°C (41 to 104°F)
Operating Humidity	10 to 80% (Max. wet-bulb temperature 30°C non-condensing)
Serial Interface (For Maintenance)	RS-232C x1
Supplied Accessories	
	Front panel key x2, Rubber foot x4, CD x1

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

IMZ-NS100 Series

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

Key Features

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

Benefits

- Minimal operator training required
- Quick and easy set up of Sony IP cameras
- Manual, event and scheduled recording available
- Locate required images quickly and easily
- Provides detailed view for area of interest
- Allows user defined graphical interface options
- System expansion to meet your requirement via IMZ-NS101, NS104, NS109 and NS116, 1, 4, 9 and 32 channels options
- Powerful system flexibility via support of 3rd party IP cameras

Configurations

Standalone Configuration

Sony Professional's Network Cameras

Third-Party Network Cameras

Network

Server with IMZ-NS100 Series installed

Client-Server Configuration

Sony Professional's Network Cameras

Third-Party Network Cameras

Analogue Cameras

SNT-V704

Network

Server with IMZ-NS100 Series installed

Server with IMZ-NS100 Series installed

Network

Monitoring Room

Controller with IMZ-NS100 Series installed

DEPA
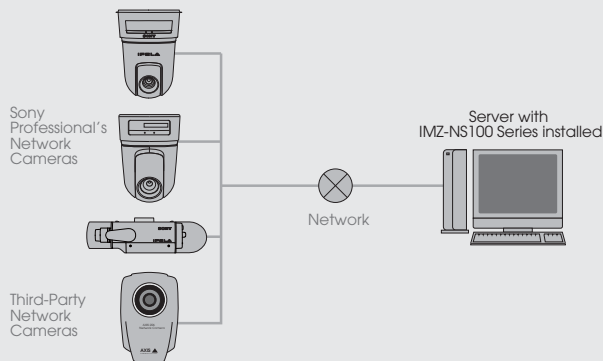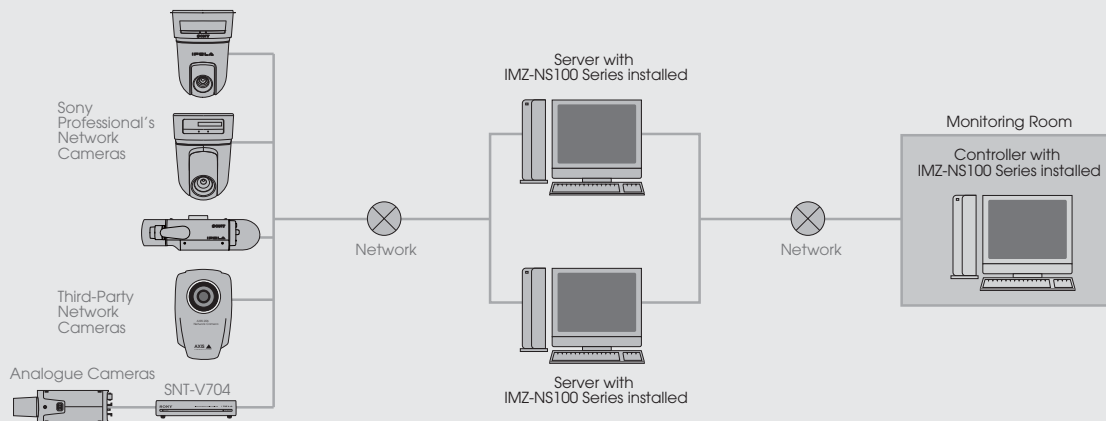
Intelligent search functions

Post VMD Search   VMF Search
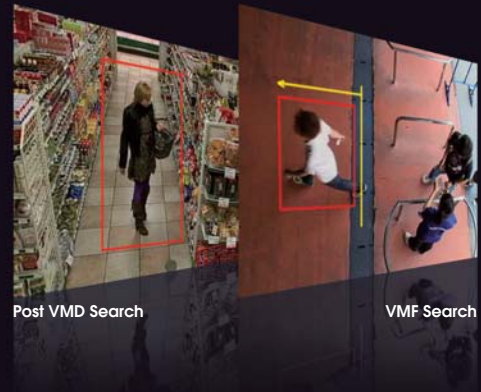
System Requirements		
Operating system *1	Microsoft® Windows Vista® Business Microsoft Windows Vista Enterprise Microsoft Windows® XP Professional SP2 Microsoft Windows Server 2003 Standard Edition SP2	
CPU	Intel® Core™ 2Duo 2.0-GHz or higher	
Main memory	1 GB or more	
HDD 2	10GB spare capacity (or more depending on the video that is to be stored)	
Video card	1024 x 768, 16/24 bit colour	
Network interface card (NIC)	100BASE-TX or higher	
Display (Resolution)	1024 x 768 or higher	

Specifications	Server	Client
Video compression	JPEG/MPEG-4	JPEG/MPEG-4
Audio compression	G711/G726	G711/G726
Number of cameras to be connected *2	32	—
Number of clients to be connected *3	10	—
Maximum number of layouts	100	100
Maximum number of users	100	100
Maximum number of servers to a client *4	—	64

*1 x 64 edition is not supported.
*2 This is a recommended value to assure high performance. It is technically possible to
   connect more than 32 units by installing on the PC a corresponding number of licenses.
   Display/recording performance basically depends on PC performance, but an increase
   in cameras may deteriorate overall performance.
*3 This is a recommended value to assure high performance. It is technically possible to
   connect more than 10 clients, but this increase may deteriorate overall performance.
*4 This is a recommended value to assure high performance. It is technically possible to
   connect more than 64 servers, but this increase may deteriorate overall performance.

Easy-to-use monitoring functions

Double-clicking a Frame

Hot spot monitoring/Dual monitor support

Monitor 1   Monitor 2 (Hot spot)

RSM Advanced Series software packages

IMZ-NS101
Control PC software for
1 networked video source.

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

IMZ-NS109
Control PC software for up to
9 networked video sources.

IMZ-NS116
Control PC software for up to
16 networked video sources.

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

Housing

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

Housing

	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-HRX550/EXT	Outdoor dome camera housing	IP66	-29 to +50°C -44 to +50°C with optional heater/ blower kit added (SNCA-HEATER)	24VAC	SNC-RX550P SNC-RX530P SNC-RX570P	SNCA-CLEAR/2 (included) SNCA-TINTED/2 SNCA-HEATER	DuPont Sky White PFW-510-S9	
	SNCA-HRX550/INT	Indoor dome camera housing	IP66	0 to 50°C	24VAC	SNC-RX550P SNC-RX530P SNC-RX570P	SNCA-CLEAR/2 (included) SNCA-TINTED/2	DuPont Sky White PFW-510-S9	
	SNCA-HRX550/PRE	Pressurised dome housing	IP66	-29 to +50°C	24VAC	SNC-RX550P SNC-RX530P SNC-RX570P	SNCA-CLEAR/2 (included) SNCA-TINTED/2	DuPont Sky White PFW-510-S9	
	SNCA-HRX550EXT/R	Heavy duty, outdoor dome housing	IP66	-29 to +50°C -44 to +50°C with optional heater/ blower kit added (SNCA-HEATER)	24VAC	SNC-RX550P SNC-RX530P SNC-RX570P	SNCA-CLEAR/2 (included) SNCA-TINTED/2 SNCA-HEATER	DuPont Sky White PFW-510-S9	
	SNCA-HRX550EXT/W	External dome housing (wireless)	IP66	-29 to +50°C -44 to +50°C with optional heater/ blower kit added (SNCA-HEATER)	24VAC	SNC-RX550P SNC-RX530P SNC-RX570P	SNCA-CLEAR/2 (included) SNCA-TINTED/2 SNCA-HEATER	DuPont Sky White PFW-510-S9	
	SNCA-HRZ25	Outdoor 8" dome housing, pendant mount with clear dome for SNC-RZ25 camera	IP66	-6.67 to +40°C	24VAC, 75W	SNC-RZ25		DuPont Sky White PFW-510-S9	
	SNCA-HRZ30	Outdoor dome SNC-RZ30 housing	IP66		24VAC	SNC-RZ30		DuPont Sky White PFW-510-S9	
	SNCA-HRZ50/EXT	External dome housing	IP66	-29 to +50°C (-44 to +50°C with optional heater blower kit)	24VAC	SNC-RZ30P SNC-RZ50P	SNCA-CLEAR/2 (included) SNCA-TINTED/2 SNCA-HEATER	DuPont Sky White PFW-510-S9	
	SNCA-HRZ50/EXT/R	Heavy duty, indoor dome housing	IP66	-29 to +50°C (-44 to +50°C with optional heater blower kit)	24VAC	SNC-RZ30P SNC-RZ50P	SNCA-CLEAR/2 (included) SNCA-TINTED/2	DuPont Sky White PFW-510-S9	
	SNCA-HRZ50/EXT/W	External dome housing (wireless)	IP66	-29 to +50°C (-44 to +50°C with optional heater blower kit)	24VAC	SNC-RZ30P SNC-RZ50P	SNCA-CLEAR/2 (included) SNCA-TINTED/2 SNCA-HEATER	DuPont Sky White PFW-510-S9	
	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	

Housing

	Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models	Optional accessories	Colour	Approx. Dimensions
	SNCA-HFIXSTD/24	Fixed housing, c/w sunshield, heater, wall bracket	IP65	-28 to 48°C	24VAC, 50Hz	SNC-P1 SNC-CS3P SNC-CS10P SNC-CS11P SNC-Z20P SNC-CS50P SSC range		DuPont Sky White PFW-510-S9	L514 x H131 x W176mm
	SNCA-HFIXSTD/230	Fixed housing, c/w sunshield, heater, wall bracket	IP66	-28 to 48°C	230VAC, 50Hz	SNC-CS50P SNC-CM120 SNC-CS20 SSC-DC593P SSC-DC598P SSC-DC80P SSC-DC83P SSC-DC88P	Additional camera PSU may be required (SNCA-PSVTSTD230) when using 230VAC model	DuPont Sky White PFW-510-S9	L514 x H131 x W176mm
	SNCA-HFIXSML/24	Fixed housing, c/w sunshield, heater, wall bracket	IP66	-28 to 48°C	24VAC, 50Hz	SNC-CS10 SNC-CS11 SSC-DC172P SSC-DC198P SSC-DC372P SSC-DC378P SSC-E453P SSC-E458P SSC-E473P SSC-E478P SSC-M383CE SSC-M388CE		DuPont Sky White PFW-510-S9	L400 x H106 x W127.5mm
	SNCA-HFIXSML/230	Fixed housing, c/w sunshield, heater, wall bracket	IP66	-28 to 48°C	230VAC, 50Hz	SNC-CS10 SNC-CS11 SSC-DC172P SSC-DC198P SSC-DC372P SSC-DC378P SSC-E453P SSC-E458P SSC-E473P SSC-E478P SSC-M383CE SSC-M388CE	Additional camera PSU may be required (SNCA-PSVTSML230) when using 230VAC model	DuPont Sky White PFW-510-S9	L400 x H106 x W127.5mm
	YT-ICB45	In ceiling bracket	N/A	N/A	N/A		N/A	White	
	YT-ICB73V	In ceiling bracket for Ssc-cd73vp	N/A	N/A	N/A	SSC-CD73VP	N/A	Silver	
	YT-ICB550/C	Clear in-ceiling bracket for SNC-RX550P	N/A	N/A	N/A	SNC-RX550P	N/A	Clear	

Housing

Housing

	Model	Description	Rating	Operating temperature	Operating voltage	Applicable Camera Models	Optional accessories	Colour	Approx. Dimensions
	YT-ICB550/T	Tinted in-ceiling bracket for SNC-RX550P	N/A	N/A	N/A	SNC-RX550P	N/A	Tinted	
	SNCA-RX550EXT12V	External dome housing (12V)			12VDC	SNC-RX-550P	N/A	Clear	
	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	N/A	Tinted	
	YT-HU75	Heater unit	N/A		N/A		N/A	N/A	
	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 7inch version	N/A	N/A	N/A	SNCA-HRX550/EXT 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	N/A	Clear	7″ (17.78cm) Diameter
	SNCA-HEATER	Heater blower kit	N/A	Extends lower operating temperature of housing/device by 15°C	24V, 25W	"SNCA-HRX550/EXT	N/A	N/A	N/A
	SNCA-TINTED	Tinted dome	N/A	N/A	N/A	SNCA-HRZ25 SNCA-HRZ30	N/A	Tinted	8" (20.32cm) Diameter
	SNCA-TINTED/2	Tinted dome, new 7inch version	N/A	N/A	N/A	SNCA-HRX550/EXT 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	N/A	Tinted	7″ (17.78cm) Diameter
	YT-LD124S	Tinted Dome Cover				SNC-RH164 SNC-RH124			
	YT-LD124C	Clear Dome Cover				SNC-RH164 SNC-RH124			

Brackets

A comprehensive range of camera mounting accessories to offer maximum flexibility in a wide range of applications.

Brackets

	Model	Description	Applicable/compatible housing models	Optional accessories	Dimensions	Colour
	SNCA-WM20FC	Wall mounted bracket with fixed coupling	SNCA-HRX550/EXT SNCA-HRX550/EXT/W SNCA-HRX550/INT SNCA-HRX550/EXT/R SNCA-HRX550/EXT/PRE SNCA-HRZ50/EXT SNCA-HRZ50/EXT/W SNCA-HRZ50/INT SNCA-HRZ50/EXT/R	SNCA-PM3 (Pole mount adaptor) SNCA-CA2 (Corner adaptor) SNCA-POWERBOX	W30cm	DuPont Sky White PFW-510-S9
	SNCA-WM20G	Gooseneck wall mount	SNCA-HRX550/EXT SNCA-HRX550/EXT/W SNCA-HRX550/INT SNCA-HRX550/EXT/R SNCA-HRX550/EXT/PRE SNCA-HRZ50/EXT SNCA-HRZ50/EXT/W SNCA-HRZ50/INT SNCA-HRZ50/EXT/R	SNCA-PM3 (Pole mount adaptor) SNCA-CA2 (Corner adaptor) SNCA-POWERBOX	W30cm	DuPont Sky White PFW-510-S9
	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	SNCA-PM3 (Pole mount adapter) SNCA-CA2 (Corner adapter)	L53cm	DuPont Sky White PFW-510-S9
	SNCA-WMMD1	Wall mounted mini dome bracket DF70/CD73	SNC-DF70 SSC-CD73	SNCA-PM3 (Pole mount adapter) SNCA-CA2 (Corner adapter)		DuPont Sky White PFW-510-S9
	SNCA-WMMD2	Wall mounted mini dome bracket DF80/CD75/77	SNC-DF80 SSC-CD75 SSC-CD77	SNCA-PM3 (Pole mount adapter) SNCA-CA2 (Corner adapter)		DuPont Sky White PFW-510-S9
	SNCA-CA2	Corner mount bracket, must be used with SNCWM20G, 22Kg max load rating	SNCA-WM20G SNCA-WM40 SNCA-WMMD1 SNCA-WMMD2	N/A		DuPont Sky White PFW-510-S9
	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	SNCA-POLE30 (Ceiling mount adapter)		Black
	YT-ICB124	In Ceiling Bracket	SNC-RH124 SNC_RH164			
	SNCA-PMFIX1	Pole mount adapter	SNCA-HFIXSML/24 SNCA-HFIXSML/230 SNCA-HFIXSTD/24 SNCA-HFIXSTD/230	N/A	L17.27cm	
	SNCA-CAFIX1	Corner mount adapter	SNCA-HFIXSML/24 SNCA-HFIXSML/230 SNCA-HFIXSTD/24 SNCA-HFIXSTD/230	N/A	L22cm	

Brackets
Power supplies

A complete range of power supply solutions matched to a wide range of power applications.

Brackets

	Model	Description	Applicable/compatible housing models		Optional accessories	Dimensions	Colour
	SNCA-WMFIX10PC	Wall/ceiling camera bracket	SNC-CS10 SNC-CS11 SNC-CS20	SNC-CS50P SNC-CM120 SNC-Z20P	N/A	H14.1cm	
	SNCA-PM3	Pole mount adapter bracket, must be used with SNC-WM20G	SNCA-WM20G SNCA-WM40 SNCA-WMMD1 SNCA-WMMD2		SNCA-PM3 SNCA-CA2		White
	SNCA-WMMD3	Mini dome mounting kit, can be used internally or externally. Includes bracket and seal kit	SNC-DM160 SNC-DS60		DuPont Sky White PFW-510-S9		DuPont Sky White PFW-510-S9
	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			L30cm	Black

Power supplies

	Model	Description	Applicable/compatible camera models		Key features	Operating voltage	Approx. Weight	Approx. Dimensions	Colour
	YS-W170P	Camera adaptor (DC power + video/sync)				240V			
	YS-W270P	Camera adaptor (DC power + video/sync)				240V			
	SNCA-PS12/1	An indoor, in line power supply with one output rated at 1 Amp, 12VDC	SSC-DC83 SSC-DC593 SSC-E473 SSC-E453 SSC-DC374 SSC-DC174 SSC-DC193P SSC-M383	SSC-M183 SSC-CD43VP SSC-CD73VP SNC-CS50P SNC-DF40P SNC-DF70P SNC-Z20P SNC-CS3P	Ideal for powering 12VDC cameras	230VAC, 50Hz, 25W	1Kg	68 x 115 x 70mm	Black
	SNCA-PS24/1	An indoor, in line power supply with one output rated at 1 Amp, 24VAC, 50Hz	SSC-DC83 SSC-DC593 SSC-E473 SSC-E453 SSC-DC374 SSC-DC174 SSC-DC193P SSC-M383 SSC-M183	SSC-CD43VP SSC-CD73VP SNC-CS50P SNC-DF40P SNC-DF70P SNC-Z20P SNC-CS3P SNC-RX550P SNC-RZ25P	Ideal for powering 24VAC cameras	230VAC, 50Hz, 25W	1Kg	68 x 115 x 70mm	Black

Power supplies

	Model	Description	Applicable/compatible camera models	Key features	Operating voltage	Approx. Weight	Approx. Dimensions	Colour
	SNCA-PS24/4	An indoor, in line power supply with one output rated at 4 Amps, 24VAC, 50Hz	SNCA-HFIXED SNCA-HRZ25 SNCA-HRZ30 SNCA-HRX550/EXT SNCA-HRX550/EXT/W SNCA-HRX550/EXT/R SNCA-HRX550/INT SNCA-HRZ50/EXT SNCA-HRZ50/EXT/W SNCA-HRZ50/EXT/R SNCA-HRZ50/INT	Ideal for powering 24VAC cameras	230VAC, 50HZ, 100W	2.1Kg	118 x 200 x 70mm	White
	SNCA-PS24/4E	An external, in line power supply with one output rated at 4 Amps, 24VAC, 50Hz	SNCA-HFIXED SNCA-HRZ25 SNCA-HRZ30 SNCA-HRX550/EXT SNCA-HRX550/EXT/W SNCA-HRX550/EXT/R SNCA-HRX550/INT SNCA-HRZ50/EXT SNCA-HRZ50/EXT/W SNCA-HRZ50/EXT/R SNCA-HRZ50/INT	Ideal for powering 24V AC housings and the cameras	230VAC, 50HZ, 100W	2.1Kg	118 x 200 x 70mm	White
	SNCA-POWER/ PCB	Blue 12VDC output board (Outdoor models only)		Controls the blower and heater				
	SNCA-POWER-BOX	IP66 rated power supply with bracket connetion	SNCA-WM20G SNCA-WM20FC SNCA-WM40 SNCA-WMMD1 SNCA-WMMD2	Ideal for powering 24VAC housings and the cameras	110VAC / 230VAC (selectable)			White
	SNCA-PS-VTSML230		SNCA-HFIXSTD/230	Can be mounted in housing	230VAC, 50Hz			N/A
	SNCA-PSVT-STD24	24VAC PSU	SNCA-HFIXSTD/230	Can be mounted in housing	230VAC, 50Hz			N/A
	SNCA-PS-VTSML24	24VAC PSU	SNCA-HFIXSTD/230	Can be mounted in housing	230VAC, 50Hz			N/A
	SNTA-RP1	Encoder rack redundant power supply	SNT-RS1U SNT-RS3U	Provides redundant power supply	230V			

IR Lights

A range of indoor, outdoor and specialist lighting solutions offers maximum sensitivity and pergformance under low light conditions.

IR Lights

	Model	Description	Key features	Operating Voltage	IP Rating	Colour
	SNCA-IR20	IR light indoor 20m	20m range, 30° spread	PoE, 12-24V AC/DC		Black
	SNCA-IR20/OUTDR	IR light outdoor 20m	20m range, 30° spread		IP66	Black
	SNCA-IR40/OUTDR	IR light outdoor 40m	40m range			Black
	SNCA-WL15/OUTDR	White light outdoor 15m	15m range			
	SNCA-IR80/OUTDR	IR light for PTZ				Black

Network & Connectivity

A complete range of connectivity solutions offers enhanced opportunities for systems expansion.

Network & Connectivity

	Model	Description	Applicable/compatible camera models	Key features	Operating Temperature	IP Rating
	SNCA-AN1	Wireless Outdoor LAN Antenna	SNCA-CFW1 SNCA-CFW5	50Ω Impedance Fixing pole included	-20°C to 60°C	IP66
	SNCA-CFADAPT	CF to PCMCIA adaptor	SNCA-CFW1 SNCA-CFW5	Powered by the connecting device	-20°C to 60°C	N/A
	SNCA-CFW1	Wireless CF LAN card	SNC-CS50P (SNCA-CFADAPT req'd) SNC-RZ50P SNC-RX550P (SNCA-CFADAPT req'd) SNC-RZ25P SNC-P5	11Mb/s, 2.4GHz Powered by camera Built-in antenna External antenna connector Supports WEP/WPA/WPA2 IEEE-802.1 authentication Wireless diversity mode (TX/RX)	-20°C to 60°C	N/A
	SNCA-CFW5	Sim compact flash (Sony MESH compatible)	SNC-CS50P (SNCA-CFADAPT req'd) SNC-RZ50P SNC-RX550P (SNCA-CFADAPT req'd)	54Mb/s, 2.4GHz Powered by camera Built-in antenna External antenna connector Supports WEP/WPA/WPA2 IEEE-802.1 authentication Wireless diversity mode (TX)	-20°C to 60°C	N/A
	SNCA-CONNECTOR/PCB	PC board	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	Controls the blower and heater For outdoor models only Replacement part		N/A
	SNCA-POE1	1 port midspan PoE supply				N/A
	SNCA-COAX/DC	Ethernet coax adapter				N/A
	SNCA-COAX/PoE	Ethernet coax adapter				N/A
	RM-NS1000	System Keyboard	NSR-1200/1100/1050H			
	SNT-RS1U	Rack Station	SNT-EX/EP154	Offers up to 16 analogue inputs		
	SNT-RS3U	Rack Station	SNT-EX/EP154	Offers up to 48 analogue inputs		
	SNCA-CW5	Outdoor Antenna Kit	SNCA-CFW5			

SONY

At Sony Professional we believe
images have immeasurable power

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

We use the power of images to
increase business value

We turn images into assets

This is Visual Wealth

Distributed by

About Sony Professional
Sony Professional is the leading supplier of AV/IT solutions to businesses across a wide variety of sectors including, **Media and Broadcast**, **Video Security and Retail, Transport & Large Venue markets**. It delivers products, systems and applications to enable the creation, manipulation and distribution of digital audio-visual content that add value to businesses and their customers. With over 25 years' experience in delivering innovative market-leading products, **Sony Professional** is ideally placed to deliver exceptional quality and value to its customers. **Sony's Professional Services** division, its systems integration arm, offers its customers access to the expertise and local knowledge of skilled professionals across Europe. Collaborating with a network of established technology partners, Sony Professional delivers end to end solutions that address the customer's needs, integrating software and systems to achieve each organisations' individual business goals. For more information please visit **www.sonybiz.net**

SONY