



SNC-DF85P

Ruggedised network mini-dome camera that incorporates a 1/3-type CCD with DynaView technology.

Indoor/outdoor and day/night operation

This powerful, vandal-resistant network camera supports an efficient and intelligent processing method called intelligent video analytics. This determines automatically when an image should be recorded or an alarm should be triggered.

Coupled with this intelligence, the camera delivers superior security and surveillance monitoring with extremely high sensitivity levels and exceptionally clear images thanks to 1/3-type DynaView technology and dependable 24/7 operation with a Day/Night function and vandal-resistant features .

Designed for both indoor and outdoor use, its clever design saves time and effort at installation, and gives you true location flexibility.

Features

The DEPA Platform - Intelligent Video Analytics

The camera offers intelligent video analytics, based on the Sony DEPA platform. This comprises two elements: intelligent built-in camera functions, such as IMD and IOD, and rules/filters that determine which images should be recorded or when an alarm should be triggered. When the network cameras perform IMD or IOD, "tagged" objects and their associated metadata, including object position data, are sent either to the NSR Series recorder or the IMZ-RS400 Series software. These products then use the metadata, together with filters, to analyze object movement and to perform a predefined action, such as image recording or alarm triggering. This method of distributed processing minimizes server workload, network bandwidth, and storage requirements.

Wide Dynamic Range With DynaView Technology

The camera incorporates DynaView technology, which dramatically improve camera dynamic range by 128 times when compared to conventional cameras. This results in clear image reproduction, even in extreme high-contrast environments. The cameras capture the same image twice - first with a normal shutter speed, and then with a high shutter speed. The dark areas captured at normal shutter speed and the bright areas captured at high shutter speed are then combined into one image using an advanced DSP LSI. Additionally, as these high-contrast scenes may have different lighting conditions, two white balance circuits are employed - one for normal shutter speed and the other for high shutter speed. This advanced technique reproduces high-contrast images with proper color.

Day/Night Function

The camera can switch from day mode (color) to night mode (B/W) by replacing its infrared-cut filter with a clear filter. Users can toggle between the two modes in different ways, either manually, on a predefined schedule, using an external sensor, or automatically in response to the scene illumination. When the camera is in night mode, it is sensitive to near-IR illuminators, allowing it to operate even in zero lx conditions.

Dynamic Frame Integration

These cameras incorporate Dynamic Frame Integration (DFI) technology to reproduce clear images that contain both still and moving objects. DFI technology detects movement within the image and reproduces those areas with minimal blurring, while areas with little or no movement are displayed naturally with minimal jagged edges. This unique algorithm also takes advantage of the

interlaced-scan CCD, which is inherently more sensitive than progressive-scan CCDs and can provide clear images even in low light conditions.

Powerful 3.6x Zoom, Vari-focal Lens

These cameras come equipped with a 3.6x zoom, vari-focal lens that covers an extremely wide range of viewing angles from 100.8° (wide-angle) to 27.7° (telephoto). This feature provides great installation flexibility for a number of different applications and locations.

Selectable JPEG, MPEG-4, H.264 Compression Formats

These multi-codec cameras support three compression formats: JPEG, MPEG-4, and H.264. The industry-standard JPEG compression format is the best choice for high-quality still images. MPEG-4 provides clear moving images efficiently over networks when bandwidth is limited. And H.264 provides twice the efficiency of MPEG-4, for when bandwidth is even more limited.

Intelligent Motion Detection (IMD)

The built-in IMD function can trigger a variety of actions, such as the storage and transfer of images or the activation of an external device through its output relays. False alarms caused by noise and repeated motion patterns are minimized thanks to an advanced Sony algorithm. Plus, when used in conjunction with DEPA-enabled recorders or software, a multitude of filter functions are available. These allow you to initiate alarms based on more specific movements, such as passing a virtual borderline or appearing into a virtual area.

Intelligent Object Detection (IOD)

The camera can detect objects that have been abandoned or become stationary for a specified duration within up to four designated detection areas. This feature is useful for detecting suspicious objects left in public places, or for detecting stalled cars or accidents on the road. As with IMD, filters can be used to refine this intelligence if the camera is configured with DEPA-enabled products.

Date/Time Superimposition

The date and time of images recorded by these cameras can be superimposed on the video while it is being monitored and recorded. This feature is ideal for easily identifying the exact date and time of an event during playback. Also because the information becomes part of the video image, it is a useful feature when providing video evidence to authorities.

Benefits

Wall- or Ceiling-mountable/Easy Viewing-angle Adjustment

The camera can be easily wall- or ceiling-mounted. Furthermore, because they are equipped with an analog composite output (RCA jack), the camera image can be monitored locally while the viewing angle is adjusted during installation. This makes focus and viewing-angle adjustment both accurate and easy.

Ball-Joint Lens Mount Technology

With the Sony patented Ball-Joint Lens Mount mechanism incorporated into the vari-focal lens of these cameras, the lens can be rotated freely in any direction. Unlike conventional cameras, it takes only one action to adjust the pan and tilt angles, allowing for quick and easy adjustment of the camera's viewing angle during installation.

Ruggedized Design

The vandal-resistant camera is housed in a heavy-duty, aluminum die-cast enclosure with an impact-resistant polycarbonate dome. It complies with the IP66 standard, and offers additional water resistance by using a special inner conduit for the camera cables. For cold-weather outdoor applications, the optional YT-HU75 Heater Unit is available. This allows the camera to be used in severe temperatures as low as -40 °C (-40 °F).

Dual-encoding Capability

With a dual-encoding capability, these cameras can generate both MPEG-4 and JPEG images simultaneously. For example, the system can be set up to transfer MPEG-4 images over a WAN or an Internet VPN where network bandwidth is limited, while storing high-resolution JPEG images on a server that's configured on your LAN.

Bi-directional Audio

Users can connect an external microphone to these cameras in order to pick up audio from a preferred location. They are also equipped with an active speaker output, enabling users to sound an alert or make an announcement from the camera unit via a remote location. This significantly expands the possibilities of monitoring applications.

Voice Alert

The Voice Alert function allows users to upload up to three pre-recorded audio files to the camera.

These can then be played out via a locally connected speaker upon an alarm trigger.

Sensor IN/Alarm OUT Ports

Equipped with a sensor input, these cameras can receive triggers from an external sensor. Also, two alarm relay outputs can be used to trigger external devices to perform a variety of actions.

Pre-/Post-alarm Image Storage

These cameras are capable of storing both pre- and post-alarm images on 16 MB of built-in memory or on removable storage media.

IEEE802.1X Compliant

The camera supports IEEE802.1X port-based network access control. This means they can be integrated to a network environment that uses the IEEE802.1X client-authorization protocol for security purposes.

Analogue Composite Video Output

These cameras can output an analog composite video signal via the BNC connector. This feature is

ideal for outputting images to a local recording device or monitor.

File Export to Removable Media

The camera is equipped with a Compact Flash™ (CF) card slot, allowing users to export images on CF media as required.

Privacy Zone Masking

These cameras can mask up to seven unwanted or prohibited areas within an image for privacy protection.

24 V AC, 12 V DC, or PoE Operation

These cameras offer a choice of three types of power: 24 V AC, 12 V DC, or PoE (Power-over-Ethernet, IEEE 802.3af). They automatically adapt to whichever power source is used, making installation fast and effective.

Network Features

Simultaneous Access for up to 20 Users
Multicasting Capability

Technical Specifications

--Camera--

Image device	1/3-type CCD with DynaView Technology
Number of effective pixels (H x V)	440,000 (752 x 582)
Electronic shutter	1/50 to 1/10,000 s
Auto gain control	Auto, EV compensation, DynaView
Exposure control	Auto, Backlight compensation
White balance mode	ATW, ATW Pro
Lens type	Vari-focal lens
Zoom ratio	3.6x optical zoom (1.5x digital zoom)
Horizontal viewing angle	100.8° to 27.7°
Focal length	f=2.8 to 10.0 mm
F-number	F1.3 (wide), F3.0 (tele)
Minimum object distance	300 mm

--Image--

Image size (H x V)	640 x 480, 320 x 240, 160 x 120 (JPEG, MPEG-4, H.264)
Compression format	JPEG, MPEG-4, H.264
Maximum frame rate	JPEG/MPEG-4: 25 fps (640 x 480) H.264: 8 fps (640 x 480)

--Audio--

Audio compression	G.711/G.726 (40, 32, 24, 16 Kb/s)
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--Network--

Protocols	TCP/IP, HTTP, ARP, ICMP, FTP, SMTP, DHCP, SNMP, DNS, NTP, RTP/RTCP
Number of clients	20
Authentication	IEEE802.1X

--Interface--

Ethernet	10Base-T/100Base-TX (RJ-45)
Card slot	CF card × 1
Analogue video output	BNC × 1, 1.0 Vp-p, 75 Ohms, RCA × 1
I/O port	Sensor in × 1, Alarm out × 2
External microphone input	Mini-jack (monaural, 2.2 K 2.5 V plug-in power)
Audio line output	Mini-jack (monaural), max output level: 1 Vrms

--Analog video output--

Signal system	PAL (Composite)
Horizontal resolution	480 TV lines
S/N ratio	More than 50 dB
Min. illumination	Colour: 0.7 lx (50IRE, F1.3, AGC ON) B/W: 0.15 lx (50IRE, F1.3, AGC ON)

--General--

Mass	Approx. 1.8 kg (3 lb 15 oz)
Dimensions	177.5 x 141.5 mm (7 x 5 5/8 inches)
Power requirements	PoE (IEEE-802.3af)/AC24V/DC12 V
Power consumption	10 W max.
Operating temperature	-10 to 50 °C (14 to 122 °F) -40 to 50 °C (-40 to 122 °F) w/heater unit
Storage temperature	-20 to 60 °C (-4 to 140 °F)

--System requirements--

Processor	CPU: Intel (R) Pentium (R) IV 1.5 GHz or higher (2.4 GHz or higher is recommended)
Memory	RAM: 256 MB or more
Web browser	Microsoft Internet Explorer (R) Ver. 6.0
Operating system	Microsoft (R) Windows (R) 2000/XP