

SONY



SNC-DF80P

Intelligent vandal-resistant, day/night network mini-dome camera with SuperEx-wave 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 CCD SuperExwave 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

1/3-type CCD with SuperExwave™ technology & high horizontal resolution

This camera has an advanced 1/3-type CCD imager with SuperExwave technology to achieve superb picture quality. This highly sensitive imager provides a minimum illumination of 0.6 lx in colour and 0.06 lx in monochrome at F1.3, and combined with state-of-the-art DSP technology produces a high horizontal resolution of 540 TV lines.

Intelligent video analytics

Based on the Sony Distributed Processing Architecture (DEPA) platform, this efficient and intelligent processing method comprises intelligent built-in camera functions such as Intelligent Motion Detection (IMD) and Intelligent Object Detection (IOD) and rules or filters that determine which images should be recorded or when an alarm should be triggered.

Selectable JPEG, MPEG-4 and H.264 compression formats

This multi-codec camera supports three compression formats: JPEG, the best choice of high-quality still images; MPEG-4, the format that provides clear moving images efficiently over limited-bandwidth networks; and H.264, the alternative for severely limited-bandwidth networks, providing twice the efficiency of MPEG-4. The camera can generate JPEG and MPEG-4 images simultaneously.

Day/Night function for 24/7 operation

This enables the camera to switch from day to night mode (colour/monochrome), replacing the infrared cut filter with a clear filter. It switches modes using an external sensor or automatically in response to light conditions. For zero lx operation, it can simultaneously switch to night mode and trigger near-IR illuminators.

Sony-patented Ball-Joint Lens Mount mechanism

This mechanism is incorporated into the vari-focal lens, enabling the lens to be rotated freely in any direction. Unlike conventional cameras, a simple single action is all that's required to adjust the pan and tilt angle. It provides quick and easy adjustment of the camera's viewing angle during installation.

Flexible and easy installation

This camera is easily wall-mounted or ceiling mounted (a supplied mounting bracket is required). Camera focus and viewing angle can be easily and accurately adjusted using the secondary video output (the RCA phono jack, located at the rear of the camera along with a BNC video output).

3.6x zoom, auto-iris vari-focal lens

Equipped with a 3.6x zoom vari-focal lens, this camera can cover an extremely wide range of viewing angles from 100.8° (wide angle) to 27.2° (telephoto). This feature provides installation flexibility for a number of different applications and locations.

Dynamic Frame Integration (DFI)

DFI technology reproduces clear images containing both still and moving objects. It detects movement within an image and reproduces those areas with minimal blurring (areas with little/no movement are displayed naturally with minimal jagged edges). It also exploits the interlaced-scan CCD to provide clear images even in low light conditions.

Intelligent Motion Detection (IMD) and Intelligent Object Detection (IOD)

IMD triggers many actions (e.g., store/transfer images, activate external devices) and minimises false alarms. IOD is useful for detecting suspicious items left in public places or stalled cars/accidents on the road. With both IMD and IOD, intelligence is extended and refined when the camera is configured with other DEPA-enabled products.

Benefits

More effective day and night security and surveillance monitoring

This camera can boost your security and surveillance monitoring applications with clearer, more detailed images. This is achieved with a powerful combination of advanced features: a 1/3-type CCD imager with SuperExwave technology, a high horizontal resolution of 540 TV lines, Dynamic Frame Integration (DFI) technology and ten JPEG picture quality settings.

Easier monitoring with intelligent, automatic image recording and alarm triggers

Your monitoring tasks are made easier by this camera's efficient and intelligent processing method; it determines automatically when an image should be recorded or an alarm should be triggered. It also minimises server workload, network bandwidth and storage requirements.

Operational convenience with three compression formats

Enjoy extraordinary operational flexibility using the best compression format for different image types and networks (JPEG for high-quality still images; MPEG-4 and H.264 for clear, moving images over bandwidth-limited and severely bandwidth-limited networks).

Round-the-clock peace of mind

Enjoy round-the-clock peace of mind with a camera that automatically adjusts to day and night light conditions, and continues to operate smoothly. Its vandal- and weather-resistant design guards against damage, dust and water ingress.

Easy to install and locate where you want

Thanks to a unique Sony-patented mechanism, just a simple, single action is required to adjust the viewing angle during installation. You can make your location choices secure in the knowledge that this camera will fit right in. It's ideal for wide-angle to telephoto applications, and for wall-mounting or ceiling-mounting.

Technical Specifications

--Camera--

Other functions	Day/Night, Dynamic Frame Integration, Image stabilizer, Privacy Zone Masking
Image device	1/3 type CCD imager (SuperExwaveTechnology)
Number of effective pixels (H x V)	440,000 pixels, 752 (H) x 582 (V)
Electronic shutter	1/60 to 1/100,000 s
Zoom ratio	Optical x3.6 (x1.5 Digital Zoom)
Focal length	f = 2,8 - 10 mm
Horizontal view angle	100,8° - 27,7°
F Number	F1.3 (Wide end), F3.0 (Tele end)
Iris	Auto
Minimum illumination	@50IRE : 0.6lx (Color), 0.06 lx (B/W) (AGC ON, F1.3)@30IRE : 0.35lx (Color), 0.03lx (B/W)(AGC ON, F1.3)
Minimum object distance	300mm

--Image--

Image size (H x V)	640 x 480(VGA), 320 x 240(QVGA), 160 x 120(QQVGA)
Compression format	JPEG, MPEG4, H.264 (Selectable)
Maximum frame rate	JPEG:VGA:max, 25fps (PAL)QVGA:max, 25fps (PAL)MPEG4:VGA, 25fps (PAL)QVGA:max, 25fps (PAL)H.264:VGA:max. 8fps (PAL)QVGA:max, 25fps (PAL)

--Network--

Protocols	TCP/IP, ARP, ICMP, HTTP, FTP(client/server), SMTP, DHCP, DNS,NTP, RTP/RTCP, SNMP (MIB-2)
Max simultaneous access	20 clients

--Interface--

Ethernet	10BASE-T / 100BASE-TX RJ-45
Analog video output	Composite video (1Vp-p)
I/O port	Sensor input x 1, Alarm output x2
External microphone input	Mini-jack (Monaural), 2.2k ohm, 2.5VDC plug-in power
Audio line output	Mini-jack (Monaural), max output level: 1 Vrms

--Analog video output--

Signal system	PAL
Horizontal resolution	540 TV lines
S/N ratio	more than 50 dB

--General--

Mass	approx. 1.8 kg
Dimensions (W x H x D)	177.5x 141.5 (V x H mm)
Power requirements	PoE(IEEE-802.3af), AC24V, DC12V
Power consumption	max. 10W
Operating temperature	-10 to +50°C (14 to 122 °F)
Storage temperature	-20 to +60 °C (-4 to +140 °F)
Operating humidity	20 to 80%, non-condensing
Storage humidity	20 to 95%, non-condensing

--System requirements--

Operating system	Microsoft Windows 2000/XP
Processor	Pentium 4 1.5GHz or higher (2.4GHz or higher is recommended)
Web browser	Microsoft Internet Explorer Ver6.0 or higher

Supplied Accessories

M4 shoulder screw
 Wire rope
 M4 screws (4)
 Torx wrench
 Template
 Bracket
 Installation manual
 CD-ROM User's guide, IP setup program, Audio Upload Tool, Privacy Masking Tool, Video Player, Custom Homepage Installer