SONY.

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Network Mini Dome Cameras

SNC-DF Series





FEATURES



Choose From the Sony High-Performance Mini Dome Camera Lineup to Meet Your Monitoring Needs – Ranging From Indoor to Outdoor, 24hour Monitoring Applications.

Sony introduces new additions to its line of surveillance mini dome cameras – SNC-DF40 and SNC-DF70 Network Cameras. The compact dome design of the SNC-DF Series preserves a discreet appearance and is ideal for use in building entrances, schools, offices, retail stores and shopping malls.

The SNC-DF Series incorporates a built-in web server and network interface, which enables users to control the cameras and monitor images over a Network. These cameras utilize both MPEG-4 and JPEG compression formats, allowing for both smooth video/audio streaming and providing high-quality still images over a wide range of network bandwidths.

What's more, this series of cameras incorporate an external microphone input, and an audio line output for active speakers, allowing for audio monitoring and audible warnings at the monitoring site.

To meet a wide range of monitoring needs, the SNC-DF70 features a Day/Night capability in a durable aluminum diecast construction with an IP-66 rating, ideal for 24-hour outdoor surveillance applications.

All-in-one Network Mini Dome Camera

The SNC-DF Series incorporates a built-in web server and a 100Base-TX/10Base-T network interface in a compact dome design, allowing users to monitor live images and control cameras from a PC running a standard web browser; additional software or plug-ins are not needed. Its compact, discreet appearance is ideal where less noticeable video cameras are preferred.



Viewer

Superior Picture Quality

The SNC-DF Series incorporates a 1/4-type Super HAD[™] CCD that achieves highhorizontal resolution of 480 TV lines and high sensitivity. The CCD imager provides a minimum illumination of 0.8 lx at F1.0 (SNC-DF40)/0.9 lx at F1.0 (SNC-DF70), enabling the cameras to capture clear images even under low light conditions.

Power Over Ethernet

The SNC-DF Series supports the 802.3af PoE standard, allowing for reduced infrastructure wiring costs and installation time.

MPEG-4 and JPEG Compression Formats

The SNC-DF Series supports both the MPEG-4 and JPEG compression formats. The high compression ratio of MPEG-4 provides smooth moving images over networks even when bandwidth is limited. If higher quality still images are preferred, then the industry standard JPEG compression format is selectable from the setup menu. The SNC-DF Series also supports variable bit rates up to 2Mb/s.

Image size can be selected from six modes: 640 x 480, 480 x 360, 384 x 288, 320 x 240, 256 x 192, and 160 x 120.

High Frame Rate

The SNC-DF Series produces images at a maximum frame rate of 30fps (NTSC)^{*1} when the image size is 320 x 240 in both MPEG-4 and JPEG modes, producing clear and smooth-moving images.

*1 In order to view images at the maximum frame rate, adequate PC processing power and network bandwidth are required.

Audio Monitoring

Incorporating an external microphone input, the SNC-DF Series is capable of picking up sound from a camera site clearly. The unit is also equipped with an audio line output for active speakers; allowing users to communicate with the remote site, expanding the capability of remote monitoring applications.

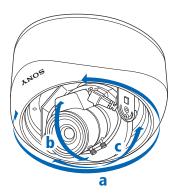
Day/Night Function (SNC-DF70)

The SNC-DF70 features a "Day/Night" capability, which provides optimized sensitivity in both day and night shooting applications. As the scene darkens, an infrared filter is automatically replaced with a clear filter and the camera switches to B&W mode, allowing for operation at a minimum illumination of 0.2 lx at F1.0, or 0 lx⁺² using an IR Illuminator from 3rd party vendors⁺³.

*2 0 lux means absence of visible light to the naked eye.
*3 Please contact your local Sony dealers for 3rd-party item.

Easy Mounting and Flexible Installation

The SNC-DF Series can be wall-mounted or ceiling-mounted with the supplied ceilingmount bracket. What's more, the 2.7x varifocal lens incorporated into these cameras can be freely rotated, allowing for easy adjustment of the camera's viewing angle after installation.



a (Panning): ±150°
b (Tilting): ±75°
c (Rotating): ±150°

Adjustment range of lens angle



Ceiling Surface Mount (SNC-DF40)



Ceiling Flush Mount (SNC-DF40) *Optional YT-ICB40 Ceiling-mount bracket is required.

Rugged Design (SNC-DF70)

The SNC-DF70 is specially designed to be used for outdoor surveillance or indoors for vandal resistant applications. The cameras are housed in a heavy-duty aluminum die cast enclosure with a durable polycarbonate viewing window. These cameras comply with the IP66^{*4} standard for protection against water and dust.

*4 Ingress Protection (IP) standard is a system for numerically classifying the degree of protection provided by enclosures of electrical equipment against solid objects and liquids. IP66 means there is no ingress of dust and the equipment is protected against powerful water jets.

Network Features

Adaptive Rate Control

To meet Quality of Service (QoS) requirements over a network, the SNC-DF Series provides an adaptive rate control function. This function automatically varies the bit rate of audio and video data to meet changing network conditions and selects the most appropriate frame rates. This function helps prevent audio and video breakup.

Multicasting Capability

The SNC-DF Series has a built-in multicasting capability that enables efficient video and audio streaming to a large number of users.

Simultaneous Access

Up to 20 (JPEG mode)/10 (MPEG-4 mode) users can simultaneously access any of the SNC-DF Series cameras and monitor images separately.

Network Security Features

Access to the SNC-DF Series can be restricted to one or more groups of selected users. Up to ten different groups can be established by defining an IP address range for each group. In addition, user names and passwords can be assigned to allow three levels of access. The administrator has complete access/control of the cameras; while the other two levels of access can be set to limit user privileges to functions such as viewing, trigger control, etc.

Alarm Functions

Motion Detection/Alarm Trigger

The SNC-DF Series is equipped with a built-in motion detection function that can generate an alarm through its alarm-output port or trigger another device to perform a variety of actions. The motion detection function uses vector information to detect motion so that unwanted noise components do not accidentally trigger the alarm. In addition to these features, the SNC-DF Series is equipped with a sensor-input port that can receive a trigger from an external sensor.

Pre-/Post-Alarm Image Storage

With a built-in buffer memory, the SNC-DF Series can store several seconds of pre-alarm and post-alarm still images when an alarm is triggered by the motion detection function, the alarm input, or both.

Image storage capacity

MPEG 4 image: Approx. 15 s* (pre-/post- 7.5 s) *when the image size is 320 x 240 at a frame rate of 30fps and a bit rate of 512 kbps JPEG image: Approx. 10 s* (pre-/post- 5 s)

*when the image size is 320 x 240 at a frame rate of 15fps and the image quality is set to Level 3

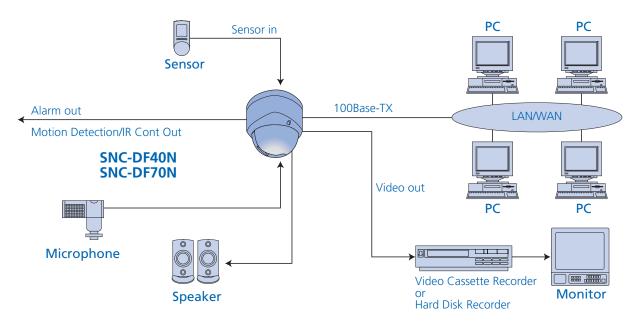
Image Transfer Using FTP/SMTP

All of the pre-/post-alarm images stored at the time of an alarm event can be transferred to an FTP server for later viewing. Also, the still image captured at the time of an alarm event can be sent to a designated e-mail address.

Analog Composite Video Output

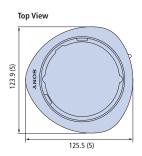
The SNC-DF Series is equipped with an analog composite video output, allowing camera images to be directly recorded or monitored by connecting video equipment such as time-lapse recorders, hard disk recorders, and monitors.

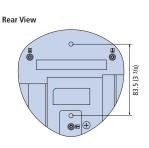
SYSTEM CONFIGRATION

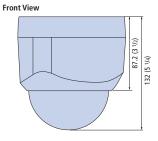


DIMENSIONS

SNC-DF40N







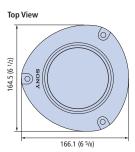
Unit: mm (inches)

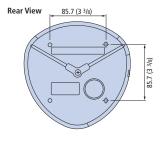
OPTIONAL ACCESSORIES



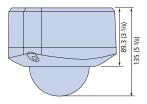
YT-ICB40 Ceiling-mount bracket for SNC-DF40N YT-ICB70 Ceiling-mount bracket for SNC-DF70N

SNC-DF70N





Front View



REAR PANEL LAYOUT



SNC-DF40N

SPECIFICATIONS

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Network Protocols TCP/IP, UDP, RTP, RTCP, ARP, ICMP, DHCP, DNS, HTTP, FTP, SMTP Number of clients JPEG: 20 users, MPEG-4: 10 users Interface 1008ase-TX/108ase-T (RI-45) Ethernet 1008ase-TX/108ase-T (RI-45) Analog video output Composite video (1.0 Vp-p) Monitor output 2-Pin connector U/D port Sensor in (1), Alarm out (2) External microphone input Mini-jack (Monoaural), max output level: 1 Vrms Analog video output Sensor in (1), Alarm out (2) Signal system NTSC (Composite) Morizortal resolution 480 TV ines Signal system NTSC (Composite) Minimum illumination (Color) 0.8 k (AGC On, F1.0, 500RE) (Black and White) - 0.3 k (AGC On, F1.0, 500RE) 0.9 k (AGC On, F1.0, 500RE) (Black and White) - Veight Approx. 1 Ib 10 oz (750 g) Dimensions (W H x D) 5 x 5 114 x 5 inches (124 x 132 x 126 mm) without projection ports Power consumption 7.5 W Operating temperature 4 to 140 % (-20 to +60 °C) Operating temperature -4 to +140 % (-20 to +60 °C) Operating t	Audio			
Protocols TCP/IP, UDP, RTP, RTCP, ARP, ICMP, DHCP, DNS, HTTP, FTP, SMTP Number of Clients JPEG-4: 10 users Interface Ethernet 1008ase-TX/108ase-T (RI-45) Analog video output Composite video (1.0 Vp-p) Monitor output 2-Pin connector I/O port Sensor in (1), Alam out (2) External microphone input Mini-jack, 2.4 VDC plug-in power, 4.7 KΩ Audio line output Mini-jack, 2.4 VDC plug-in power, 4.7 KΩ Audio line output Mini-jack (Moneaural), max output level: 1 Vrms Analog video output MTSC (Composite) NTSC (Composite) Horizontal resolution 480 TV lines Sol dB Signal system NTSC (Composite) 0.9 k (AGC On, F1.0, 50IRE) 0.9 k (AGC On, F1.0, 50IRE) (Black and White) - 0.2 k (AGC On, F1.0, 50IRE) 0.2 k (AGC On, F1.0, 50IRE) Ower consumption X5 S 1/4 x 5 inches (124 x 132 x 126 mm) without projection ports 6 ½ x 5 ⅓ a 6 ⅓ inches (155 x 135 x 166 mm) without projection ports Power requirements AC24 V 50/60 Hz, DC12 VPOE Power requirements AC44 V 50/60 Hz, DC12 VPOE Power requirements AC24 V 50/60 Hz, DC12 VPOE Songe temperature 14 to 122 °F (-10 to +50 °C)	Compression format	G.711 (64 Kbps) / G.726 (40, 32, 24, 16 Kbps)		
Number of clients JPEG: 20 users, MPEG-4: 10 users Interface Ethernet 100Base-TX/10Base-T (RI-45) Analog video output Composite video (1.0 Vp-p) Monitor output 2-Pin connector UO port Sensor in (1), Alarm out (2) External microphone input Mini-jack, 2.4 VDC plug-in power, 4.7 kΩ Audio line output Mini-jack (Monoaural), max output level: 1 Vrms Analog video output Mini-jack (Monoaural), max output level: 1 Vrms Analog video output Mini-jack (Monoaural), max output level: 1 Vrms Analog video output Mini-jack (Monoaural), max output level: 1 Vrms Analog video output Signal system NTSC (Composite) Horizontal resolution 480 TV lines 5 SN ratio 0.0 8 k (AGC On, F1.0, 50/RE) 0.9 k (AGC On, F1.0, 50/RE) (Black and White) - 0.2 k (AGC On, F1.0, 50/RE) (Black and White) - 0.2 k (AGC On, F1.0, 50/RE) Operating temperature A to 275 0g Approx. 3 lb 5 oz (1,500 g) Dimensions (W x H x D) 5 x 5 1/4 x 5 inches (124 x 132 x 126 mm) without projection ports 6 1/2 x 5 3/8 x 6 5/8 inches (165 x 135 x 166 mm)	Network			
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Audio line output Mini-jack (Monoaural), max output level: 1 Vrms Analog video output Signal system NTSC (Composite) Signal system NTSC (Composite) NTSC (Composite) Horizontal resolution 480 TV lines 50 dB S/N ratio 50 dB 0.9 k (AGC On, F1.0, 50IRE) 0.9 k (AGC On, F1.0, 50IRE) (Black and White) - 0.2 k (AGC On, F1.0) 0.2 k (AGC On, F1.0) General Weight Approx. 1 lb 10 oz (750 g) Approx. 3 lb 5 oz (1,500 g) Dimensions (W x H x D) 5 x 5 1/4 x 5 inches (124 x 132 x 126 mm) without projection ports 6 1/2 x 5 3/8 x 6 5/8 inches (165 x 135 x 166 mm) without projection ports Power consumption 7.5 W 8.0 W Poperating temperature 14 to 122 °F (-10 to +50 °C) Storage temperature -4 to +140 °F (-20 to +60 °C) 8.0 W Operating humidity 20 to 80%, non-condensing Storage humidity 20 to 95%, non-condensing Storage humidity 20 to 95%, non-condensing Supplied accessories CD-ROM (setup program, users guide), Monitor cables (2), AC power code, Wire rope, Screws (2), Installation manual Wire rope, Screws (2), Installation manual				
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Wire rope, Screws (2), Dome cover screw, Installation manual Wire rope, Screws (2), Installation manual System requirements Supervision	Supplied accessories			
System requirements				
		Wire rope, Screws (2), Dome cover screw, Installation manual	Wire rope, Screws (2), Installation manual	
Operating system Microsoft® Windows® 2000/XP				
	Operating system	Microsoft® Windows® 2000/XP		
Processor Intel® Pentium® III, 1 GHz or higher (Recommendation: Pentium IV, 2GHz or higher)				
Memory 256 MB RAM minimum				
Web browser Microsoft Internet Explorer® version 5.5 or 6.0	Web browser	Microsoft Internet Explorer® version 5.5 or 6.0		

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