

Network Camera

Installation Manual

Before operating the unit, please read this manual thoroughly and retain it for future reference.

IPELA

SNC-DF85N/DF85P *DynaView* SNC-DF80N/DF80P *SuperExwave™*

© 2007 Sony Corporation Printed in China <http://www.sony.net/>

Owner's Record

The model and serial numbers are located on the bottom. Record these numbers in the spaces provided below.
Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. _____ Serial No. _____

WARNING

To avoid electrical shock, do not open the cabinet.
Refer servicing to qualified personnel only.

WARNING

This installation should be made by a qualified service person and should conform to all local codes.

WARNING

A readily accessible disconnect device shall be incorporated in the building installation wiring.

WARNING (for Installers only)

Instructions for installing the equipment on the ceiling or the wall:
After the installation, ensure the connection is capable of supporting four times the weight of the equipment downwards.

CAUTION

The rating label is located on the bottom.

CAUTION for LAN port

For safety reason, do not connect the LAN port to any network devices that might have excessive voltage.
The LAN port of this unit is to be connected only to the devices whose power feeding meets the requirements for SELV (Safety Extra Low Voltage) and complies with Limited Power Source according to IEC 60950-1 Second Edition.

Power Supply

Caution for U.S.A. and Canada

The SNC-DF85N/DF80N operates on 24 V AC or 12 V DC.
The SNC-DF85N/DF80N automatically detects the power.
Use a Class 2 power supply which is UL Listed (in the U.S.A) or CSA-certified (in Canada).

Caution for other countries

The SNC-DF85N/DF85P/DF80N/DF80P operates on 24 V AC or 12 V DC.
The SNC-DF85N/DF85P/DF80N/DF80P automatically detects the power.
Use a power supply rated 24 V AC or 12 V DC which meets the requirements for SELV (Safety Extra Low Voltage) and complies with Limited Power Source according to IEC 60950-1 Second Edition.

CAUTION

After incorporating the heater unit, the rated power of the camera will be 22 W.
Ensure the power source is capable of providing the total power.

For customers in the U.S.A. (SNC-DF85N/DF80N only)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

All interface cables used to connect peripherals must be shielded in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.

For Customers in Canada (SNC-DF85N/DF80N only)

This Class A digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

For customers in other countries

WARNING

This is a Class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.
In the case that interference should occur, consult your nearest authorized Sony service facility.

ATTENTION

The electromagnetic fields at specific frequencies may influence the picture of the unit.

For the customers in Europe

The manufacturer of this product is Sony Corporation, 1-7-1 Konan, Minato-ku, Tokyo, Japan.
The Authorized Representative for EMC and product safety is Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany.
For any service or guarantee matters please refer to the addresses given in separate service or guarantee documents.

This apparatus shall not be used in the residential area.

- You should keep in mind that the images or audio you are monitoring may be protected by privacy and other legal rights, and the responsibility for making sure you are complying with applicable laws is yours alone.
- Access to the images and audio is protected only by a user name and the password you set up. No further authentication is provided nor should you presume that any other protective filtering is done by the service. Since the service is Internet-based, there is a risk that the image or audio you are monitoring can be viewed or used by a third-party via the network.
- SONY IS NOT RESPONSIBLE, AND ASSUMES ABSOLUTELY NO LIABILITY TO YOU OR ANYONE ELSE, FOR SERVICE INTERRUPTIONS OR DISCONTINUATIONS OR EVEN SERVICE CANCELLATION. THE SERVICE IS PROVIDED AS-IS, AND SONY DISCLAIMS AND EXCLUDES ALL WARRANTIES, EXPRESS OR IMPLIED, WITH RESPECT TO THE SERVICE INCLUDING, BUT NOT LIMITED TO, ANY OR ALL IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR THAT IT WILL OPERATE ERROR-FREE OR CONTINUOUSLY.
- Always make a test recording, and verify that it was recorded successfully. SONY WILL NOT BE LIABLE FOR DAMAGES OF ANY KIND INCLUDING, BUT NOT LIMITED TO, COMPENSATION OR REIMBURSEMENT ON ACCOUNT OF FAILURE OF THIS UNIT OR ITS RECORDING MEDIA, EXTERNAL STORAGE SYSTEMS OR ANY OTHER MEDIA OR STORAGE SYSTEMS TO RECORD CONTENT OF ANY TYPE.
- Always verify that the unit is operating properly before use. SONY WILL NOT BE LIABLE FOR DAMAGES OF ANY KIND INCLUDING, BUT NOT LIMITED TO, COMPENSATION OR REIMBURSEMENT ON ACCOUNT OF THE LOSS OF PRESENT OR PROSPECTIVE PROFITS DUE TO FAILURE OF THIS UNIT, EITHER DURING THE WARRANTY PERIOD OR AFTER EXPIRATION OF THE WARRANTY, OR FOR ANY OTHER REASON WHATSOEVER.
- If you lose data by using this unit, SONY accepts no responsibility for restoration of the data.

Features

This product is a network camera adopting the 1/3 type CCD (SNC-DF85N/DF85P) and SuperExwave™ CCD sensor 1/3 type CCD (SNC-DF80N/DF80P).

The camera has the following features:

- High sensitivity
- Day/night function which can switch between black & white mode and color
- Automatic white balance tracking and adjustment (ATW/ATW-PRO/Dual WB (SNC-DF85N/DF85P))
- Manual setting of the camera direction – panning, tilting and rotating
- Vari-local auto iris lens as standard equipment. The focal length of the lens is from 2.8 mm to 10 mm.
- High quality CCD and clear dome cover enable high sensitivity.
- Backlight compensation through the center measurement (SNC-DF80N/DF80P).
- ×128 Wide Dynamic Range camera with DynaView technology (SNC-DF85N/DF85P)
- 24 V AC / 12 V DC power supply system/corresponding to PoE.
- 3 video compression formats (video codecs) available: JPEG, MPEG4 and H.264
- Single codec mode and dual codec mode switchable
- Up to 20 users can access an image of a camera simultaneously.
- You can monitor a high-quality live image of 30 frames per second maximum (SNC-DF85N/DF80N) and 25 frames per second maximum (SNC-DF85P/DF80P).
- Date/time can be superimposed on the image.

Notes on Use

Operating or storage location

Do not shoot an extremely bright object (an illumination, the sun, etc.). Also, avoid operating or storing the camera in the following locations, as these can be a cause of a malfunction.

- Extremely hot or cold places (Operating temperature: –10°C to +50°C [14°F to 122°F])
- Close to heating equipment (e.g., near heaters)
- Close to sources of strong magnetism
- Close to sources of powerful electromagnetic radiation, such as radios or TV transmitters
- Locations subject to strong vibration or shock
- Dusty locations
- Locations under the influence of fluorescent light or reflection of a window
- Under an unsteady light (the image will flicker.)

Ventilation

To prevent heat buildup, do not block air circulation around the camera.

Transportation

When transporting the camera, repack it as originally packed at the factory or in materials of equal quality.

Cleaning

- Use a blower to remove dust from the lens.
- Use a soft, dry cloth to clean the external surfaces of the camera.
Stubborn stains can be removed using a soft cloth dampened with a small quantity of detergent solution, then wipe dry.
- Do not use volatile solvents such as alcohol, benzene or thinners as they may damage the surface finishes.

To install the camera outdoors

Attach the dome casing securely to the unit casing.
Make sure you seal the locations listed below with sealant (e.g. silicon sealant) to prevent moisture from getting inside the casing.
– Camera installation holes (4)
– Conduit holes (side/bottom)

Using in cold climates (with YT-HU75)

The heater may not defrost snow and frost attached on the dome cover under certain environment condition.

Note on laser beams

Laser beams may damage a CCD. You are cautioned that the surface of a CCD should not be exposed to laser beam radiation in an environment where a laser beam device is used.

Typical CCD Phenomena

The following phenomena that may appear in images are specific to CCD (Charge Coupled Device) image sensors. They do not indicate malfunctions.

White flecks

Although the CCD image sensors are produced with high-precision technologies, fine white flecks may be generated on the screen in rare cases, caused by cosmic rays, etc.

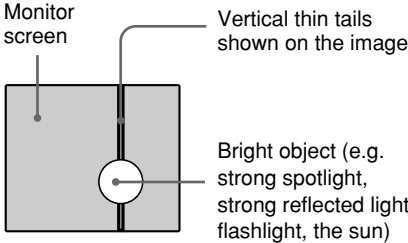
This is related to the principle of CCD image sensors and is not a malfunction.

The white flecks especially tend to be seen in the following cases:

- when operating at a high environmental temperature
- when you have raised the gain (sensitivity)

Vertical smear

When an extremely bright object, such as a strong spotlight or flashlight, is being shot, vertical tails may be produced on the screen, or the image may be distorted.



Aliasing

When fine patterns, stripes, or lines are shot, they may appear jagged or flicker.

About the Supplied Manuals

Names of Manuals

The following manuals are supplied with this unit.

Installation Manual (this document)

The Installation Manual describes the names and functions of the parts of the camera, the installation and connections of the camera, etc. Be sure to read it before operating the camera.

User's Guide (stored in the CD-ROM)

The User's Guide describes the setup of the camera and the operations from the Web browser.
To open the User's Guide, see "Using the CD-ROM Manuals" below.

Using the CD-ROM Manuals

The supplied CD-ROM disc includes the User's Guides for this unit (Japanese, English, French, German, Spanish, Italian and Chinese versions) in PDF format.

Preparations

The Adobe Reader Version 6.0 or higher must be installed on your computer in order to use the User's Guide stored in the CD-ROM disc.

Note

If Adobe Reader is not installed, it may be downloaded from the following URL: <http://www.adobe.com/>

Reading the manual in the CD-ROM

1 Insert the CD-ROM in your CD-ROM drive.

A cover page appears automatically in your Web browser.
If it does not appear automatically in the Web browser, double-click on the index.htm file on the CD-ROM.

2 Select and click on the manual that you want to read.

This opens the PDF file of the manual.
Clicking an item in the Table of Contents allows you jump to the relevant page.

Notes

- The files may not be displayed properly, depending on the version of Adobe Reader. In this case, install the latest version, which you can download from the URL mentioned in "Preparations" above.
- If you have lost or damaged the CD-ROM, you can purchase replacement. Contact your Sony service representative.

Adobe, Acrobat and Acrobat Reader are trademarks of Adobe Systems Incorporated in the United States and/or other countries.

Location and Function of Part

The figure shows the camera without the dome casing and slit cover.

Side

1 Audio cable (supplied)

The connector with the longer cable is used for the line output connector, and the shorter cable is used for the microphone input connector.

2 I/O (Input/Output) cable (supplied)

This cable is provided with a sensor input and two alarm outputs.
The wires of the cable control the following signals.

Color of wire	Name
Red	Sensor In +
White	Sensor In – (GND)
Black	Alarm Out 1 +
Yellow	Alarm Out 1 –
Brown	Alarm Out 2 +
Green	Alarm Out 2 –

For details on each function and required settings, see the User's Guide stored in the supplied CD-ROM.
For the wiring, see "Connecting the I/O cable."

3 Camera head holder

4 Lens

5 24 V AC/12 V DC (power input) cable

Connect to a 24 V AC or 12 V DC power supply system.
You can screw an extension cable in the connector tip attached at the end of the cable.

6 BNC cable

Outputs a composite video signal. Connect to a composite video input connector of a video monitor, VCR, etc.

7 Conduit holes (3/4 inches)

Connect a pipe to this hole. There are two conduit holes on the unit casing, one on the side and one at the bottom. The cover plug is installed in the side conduit hole at the factory. Remove the plug as needed and connect the pipe to the hole.

8 Lens ring fixing screw

Loosen this screw before adjusting the zoom and focus, then tighten it to fix the lens position. The screw can be inserted at one of three points.

9 Zoom ring

Turn this ring to adjust the field of view.

10 Focus ring

Turn this ring to adjust the focus.

Inside

11 HEATER unit connector

Connect the cable of the optional YT-HU75 Heater Unit.

12 Camera head fixing screw

First loose the screw and face the camera head to the desired direction, then tighten the screw to fix it.

13 MONITOR output jack

Connect to a video input connector of a monitor. You can adjust the camera while looking at the image on the monitor. After adjusting the camera, disconnect the cable.

14 CF card slot

This slot is used to insert a commercially available CF memory card. Insert the CF memory card with its front side (with the ▲ mark) inward, as far as it goes. (C)

15 CF card lever

Press the lever to remove the CF memory card from the CF card slot.

16 MIC/SP (Microphone/Speaker) connector

Connect the supplied audio cable to this connector.

17 EXT CTRL (External control input/output) connector

Connect the supplied I/O cable to this connector.

18 AC / DC IN (power input) connector

Connect an 24V AC / 12V DC cable to this connector.

19 VIDEO OUT (Video output) connector

Connect the BNC cable to this connector.

20 LAN port (RJ45)

Connect to a hub or computer on the 10BASE-T or 100BASE-TX network using a network cable (UTP, category 5).

21 Unit casing

The unit casing is made of die-cast aluminum and has conduit holes on the side and at the bottom.

22 Camera installation hole (4 positions)

Make sure to tighten the screws securely when installing the camera.

23 Reset switch

To reset the camera to the factory default settings, hold down this switch with a point and supply the power to the camera.

24 POWER indicator (green)

When the power is supplied to the camera, the camera starts checking the system. If the system is normal, this indicator lights up.

25 LAN indicator (green)

The indicator flashes in green when the camera is connected to the network. The indicator goes off when the camera is not connected to the network.

26 Cable clamp (2 positions)

Secure the BNC cable, 24V AC/12V DC cable, I/O cable, audio cable and network cable with these clamps.

27 Safety cord

This cord prevents the dome casing from falling off the unit casing. Make sure that the cord does not get caught between the dome casing and the unit casing. Rotate the cord and adjust the position of the cord.

28 Dome casing

The dome cover is made of polycarbonate. A waterproof rubber gasket is provided on the joint surface to the unit casing.

Monitoring the Camera Image

Install and connect the camera properly following the instructions in this manual, then operate the camera referring to the User's Guide contained in the supplied CD-ROM.

(continued on the reverse side)

