



i-PRO Products WJ-NX200G Network Disk Recorder Instruction Manual

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i-PRO Products WJ-NX200G Network Disk Recorder Instruction Manual



Before attempting to connect or operate this product, please read these instructions carefully and save this manual for future use. The model number is abbreviated in some descriptions in this manual.

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Safety Information

WARNING:

- This apparatus must be earthed.

- Apparatus shall be connected to a main socket outlet with a protective earthing connection.
- The mains plug or an appliance coupler shall remain readily operable.
- To prevent fire or electric shock hazard, do not expose this apparatus to rain or moisture.
- The apparatus should not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, should be placed on the apparatus.
- All work related to the installation of this product should be made by qualified service personnel or system installers.
- For PERMANENTLY CONNECTED APPARATUS provided neither with an all-pole MAINS SWITCH nor an all-pole circuit breaker, the installation shall be carried out in accordance with all applicable installation rules.
- The connections should comply with local electrical code.

CAUTION:

Before attempting to connect or operate this product, please read the label on the bottom.



RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,

DO NOT REMOVE COVER (OR BACK).

NO USER-SERVICEABLE PARTS INSIDE.

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Power disconnection. Unit with or without ON-OFF switches have power supplied to the unit whenever the power cord is inserted into the power source; however, the unit is operational only when the ON-OFF switch is in the ON position. Unplug the power cord to disconnect the main power for all units.

: Alternating current symbol

For Denmark, Finland, Norway, Sweden


“The equipment must be connected to an earthed mains socket-outlet”.

FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.

A 5 amp fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5 amp and that it is approved by ASTA or BSI to BS1362.

Check for the **ASTA mark**  or the **BSI mark**  on the body of the fuse.

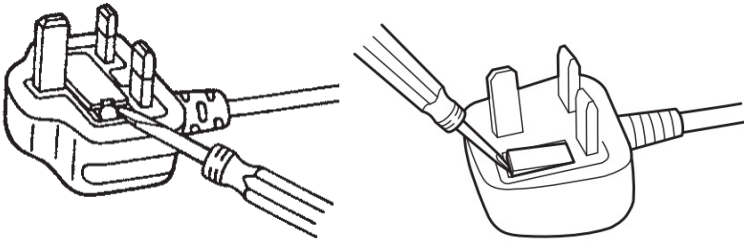
If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained. A replacement fuse cover can be purchased from our dealer.

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY. THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMP SOCKET.

How to replace the fuse

The location of the differs according to the type of AC mains plug (**figures A and B**).



Confirm the AC mains plug fitted and follow the instructions below.

Illustrations may differ from actual AC mains plug. Open the fuse cover with a screwdriver and replace the fuse and close or attach the fuse cover.

Important safety instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation holes. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus.
When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Introduction

Preface

The network disk recorders WJ-NX200K/G (hereinafter, recorders) equipped H.265 CODEC and are designed for use within a H.265 surveillance system, and record images/audio from up to 32 network cameras (hereinafter, cameras) on the hard disk drives (HDDs). Number of cameras to be used in the system (9 cameras in basic system) can be increased to 32 (maximum) by purchasing the Additional Camera Kit (WJ-NXE20, WJ-NXE20W).

This recorder supports connection with a monitor equipped with the HDMI (High-Definition Multimedia Interface) connector.

Connection using an HDMI cable (optional) offers display of playback/live images with superior quality.

It is possible to display images from multiple cameras, switch those images and perform basic operation of the camera.

Features

High-definition image monitoring is available

Images from up to 32 cameras with the image capture size of 4K (3840 × 2160) can be saved as video data.

This recorder also supports the HDMI output to 2 monitors that can display recorded images and live images from the cameras in high definition.

Quick setup and operations

By connecting the mouse (accessory) to this recorder, quick operations are available while viewing a monitor. By using “Easy Start” which realizes quick setup, the cameras are automatically recognized and settings can be configured without operations from a PC*1

Recorded images can easily be searched using calendar or time line.

- 1 A PC will be necessary for some of the camera settings and to use the user manual and to view the setting version.

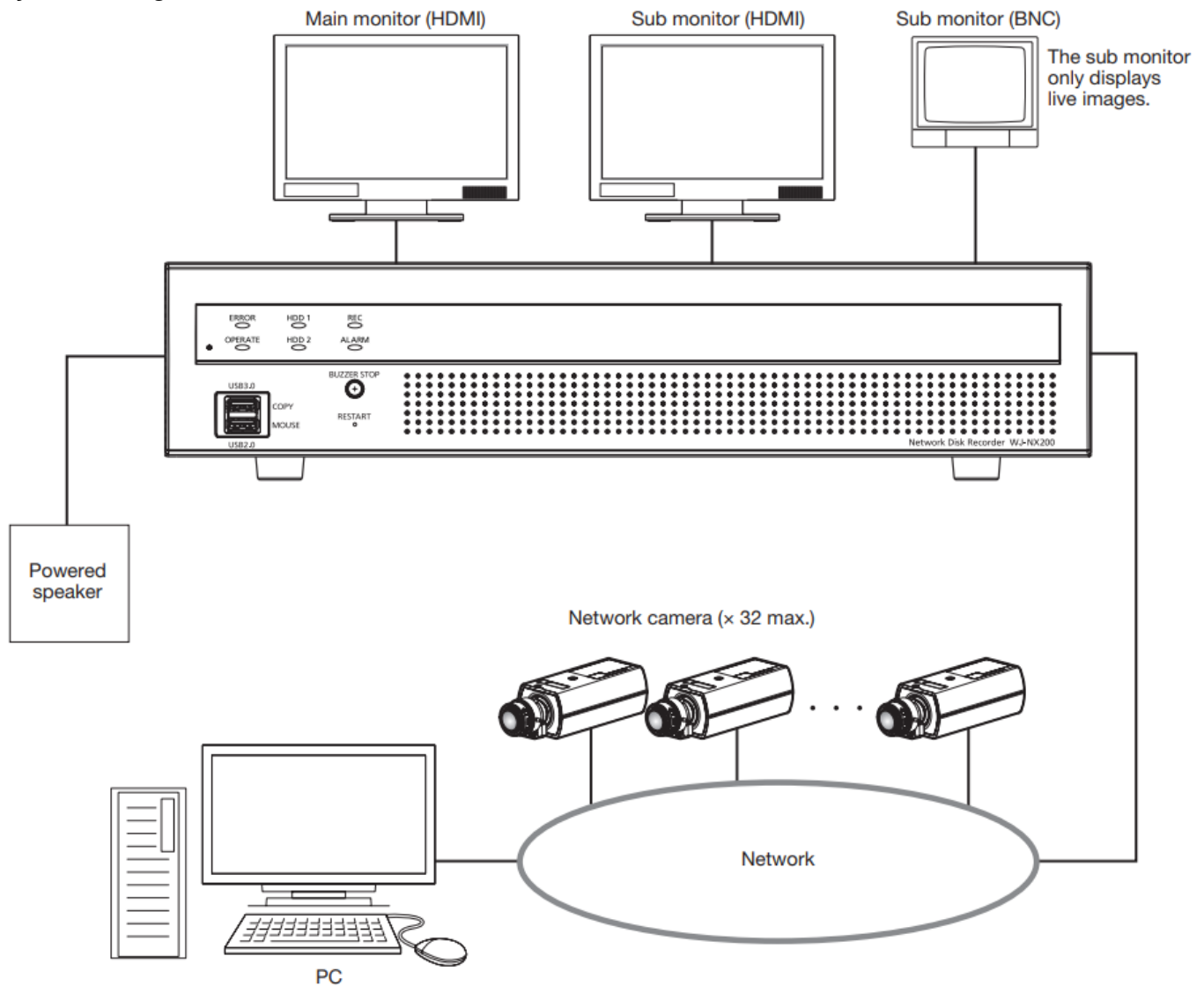
The copy port equipped

You can copy the images recorded on the camera with an external hard disk drive and USB memory in less than half the time of the previous model*2

The copied images can be played, printed or saved using the dedicated viewer software.

- 2 Comparison with WJ-NV300 series

System Configuration



Standard accessories

CD-ROM*1 : 1 pc.

Mouse : 1 pc.

Installation Guide : 1 pc.

Quick Reference Guide : 1 pc.

Activation Key Card : 1 pc.

Terminal Plug (10 pin) : 1 pc.

Terminal Plug (11 pin) : 1 pc.

Cable Clamp : 2 pcs.

Dust caps for the front USBs*2 : 2 pcs.

Power cord : 2 pcs.

HDD fixing screw : 8 pcs.

1. The CD-ROM contains the operating instructions (PDFs). Make sure to read them when installing or setting the recorder.
2. Put the dust caps for the front USBs on the front copy port and mouse connection port to prevent dust brought

by fan's intake while you are not using a mouse or an external storage device.

About the user manuals

There are 4 sets of operating instructions for the WJ-NX200K/G as follows.

Installation Guide (Printed): Contains procedures of how to install/connect this product with devices and descriptions about "Easy start".

Important Information (this document): Contains preface, precautions, and major operating controls and their functions and specifications.

Operating Instructions (PDF): Contains descriptions of how to configure the required settings and how to operate this product.

Refer to our support **website** :

(https://i-pro.com/global/en/surveillance/documentation_database).

Quick Reference Guide: Contains descriptions of how to operate functions frequently used.

Adobe® Reader® is required to read the PDF files on the provided CD-ROM. When Adobe® Reader® is not installed on the PC, download the latest Adobe® Reader® from the Adobe web site and install it.

Depending on descriptions, the model name of this recorder may be omitted as "NX200" in the manuals and on the setup. Refer

to "readme.txt" on the provided CD-ROM for further information about the dedicated software (option) that receives and displays

the event and error information, compatible cameras and their versions.

Refer to our support website ([https://i-](https://i-pro.com/global/en/surveillance/training_support/support/technical_information)

[pro.com/global/en/surveillance/training_support/support/technical_information](https://i-pro.com/global/en/surveillance/training_support/support/technical_information)) for latest information about the compatible cameras and functions to be added or changed by firmware upgrade.

The external appearance in the document may differ from the actual product within no influence range on operation due to improvement of the product.

System requirements for a PC

It is recommended to operate this unit using a PC that meets the following system requirements.

OS: Microsoft® Windows® 7*1

, Microsoft® Windows® 8.1, Microsoft® Windows® 10

Web browser: Windows® Internet Explorer® 11 (32-bit)

CPU: Intel® Core™ i7-860

Memory: 4 GB or more

Monitor: 1024 × 768 pixels or more, 24-bit True color or better

Network interface: 10BASE-T/100BASE-TX/1000BASE-T 1 port

Audio: Sound card (When using the audio function)

Others: CD-ROM drive: It is necessary to refer to the operating instructions on the provided CD-ROM.

DirectX® 9.0c or later

Adobe® Reader® : CD-ROM drive: It is necessary to refer to the operating instructions on the provided CD-ROM.

- 1 Windows® XP compatibility mode is unavailable.

Important:

- Refer to our support website (https://i-pro.com/global/en/surveillance/training_support/support/technical_information) for information about the latest

operation verification of the supported operating systems and web browsers.

- If using a PC that does not meet the above system requirements, it may cause problems such as slow imaging or the browser becomes inoperable.

Microsoft® Windows® RT, Microsoft® Windows® 7 Starter and Microsoft Edge are not supported.

- When using Microsoft® Windows® 8.1, use it in the desktop. The software cannot be used in the Modern UI design.

Note:

- Refer to “Notes about versions of Windows®/Internet Explorer®” (PDF) on the provided CD-ROM for further information about system requirements for a PC and precautions when using Microsoft® Windows® or Windows® Internet Explorer®

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- Refer to the “readme.txt” file on the provided CD-ROM for further information about the source code of the software contained in this product and copyright notice comprised in the GPL/LGPL software.
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5. ANY PROBLEM, CONSEQUENTIAL INCONVENIENCE, OR LOSS OR DAMAGE, ARISING OUT OF THE SYSTEM COMBINED BY THE DEVICES OF THIRD PARTY;
6. ANY CLAIM OR ACTION FOR DAMAGES BROUGHT BY ANY PERSON OR ORGANIZATION AS A PHOTOGRAPHED SUBJECT DUE TO VIOLATION OF PRIVACY CONCERNING A SURVEILLANCE CAMERA'S PICTURE OR SAVED DATA, FOR SOME REASON (INCLUDING USE WHEN USER AUTHENTICATION ON THE AUTHENTICATION SETTING SCREEN IS SET TO OFF), BECOMING PUBLIC OR BEING USED FOR ANY PURPOSE;
7. LOSS OF REGISTERED DATA CAUSED BY ANY FAILURE (INCLUDING INITIALIZATION OF THE PRODUCT DUE TO FORGOTTEN AUTHENTICATION INFORMATION SUCH AS A USER NAME AND PASSWORD).

Network security

As you will use this unit connected to a network, your attention is called to the following security risks.

1. Leakage or theft of information through this unit
2. Use of this unit for illegal operations by persons with malicious intent
3. Interference with or stoppage of this unit by persons with malicious intent

It is your responsibility to take precautions such as those described below to protect yourself against the above network security risks.

- Use this unit in a network secured by a firewall, etc.
- If this unit is connected to a network that includes PCs, make sure that the system is not infected by computer viruses or other malicious entities (using a regularly updated anti-virus program, anti-spyware program, etc.).
- Protect your network against unauthorized access by restricting users to those who log in with an authorized user name and password set by using user authentication.
- Apply measures such as user authentication to protect your network against leakage or theft of information, including image data, authentication information (user names and passwords), alarm mail information, FTP server information and DDNS server information.
- After the unit is accessed by the administrator, make sure to close the browser.
- Change the administrator password periodically. Keep the authentication information (your user name and password) in a safe place free from public view.
- Do not install the camera in locations where the camera or the cables can be destroyed or damaged by persons with malicious intent.

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About Additional Camera Kit (option)

Number of cameras to be used in the system (9 cameras in basic system) can be increased to 16, 24 and 32 (maximum) by purchasing the Additional Camera Kit (WJ-NXE20, WJ-NXE20W: option). Refer to following table regarding camera numbers.

Additional Camera Kit WJ-NXE20, WJ-NXE20W	NX200 only(No additional license)	one Additional Camera Kit (one additional license)	two Additional Camera Kit (two additional licenses)	three Additional Camera Kit (three additional licenses)
	up to 9 cameras	up to 16 cameras	up to 24 cameras	up to 32 cameras

About Secure Communication Kit (option)

Registering a license of a secure communication kit (option) to the recorder enables secure communication* with cameras. Each secure communication kit differs in the number of cameras that can be registered as shown in the table below. Use several licenses as necessary.

- Encrypted communication using an electronic certificate.

WJ-NXS01, WJ-NXS01W	WJ-NXS04, WJ-NXS04W	WJ-NXS16, WJ-NXS16W	WJ-NXS32, WJ-NXS32W
1 camera	4 cameras	16 cameras	32 cameras

About the business intelligence function (option)

Registering the license of the additional business intelligence kit WJ-NXF02, WJ-NXF02W (option) allows the recorder to detect faces whose features are similar to the registered faces by comparing face images in live image with the registered face images (face matching function). The statistical processing for the results of the face matching will also become available and it displays the result on the main monitor connected with the recorder.

Precautions

Refer installation work to the dealer.

Installation work requires technique and experiences. Failure to observe this may cause fire, electric shock, injury, or damage to the product.

- Be sure to consult the dealer.

Do not disassemble nor alter this product.

Failure to observe this may cause fire or electric shock.

- Ask your dealer for inspection and repair.

Do not insert any foreign objects.

Do not allow any foreign object or liquid such as water, a metallic part, etc. to enter since it may cause fire or electric shock.

- If it happens, disconnect the power plug from the electric outlet immediately and contact your dealer.

Stop the operation immediately when something is wrong with this product.

When smoke goes up from the product or the smell of smoke comes from the product, continued use will result in fire, injury, or damage to the product.

- Turn off the power of this product immediately, and then contact your dealer.

Avoid placing receptacles that contain liquids such as water on/near this product.

If liquid spills onto this product, it may cause fire or an electric shock.

- If it happens, disconnect the power plug from the electric outlet immediately and contact your dealer.

Clean the power plug periodically to keep it dust free.

Dust can cause the insulation to be damaged and cause a fire.

- When cleaning, disconnect the power plug and wipe with a clean dry cloth.

Do not install this product in an unstable location.

Selecting an inappropriate installation surface may cause the product to fall down or topple over, resulting in injury.

Do not touch this product, power cord and connected cables when thunder is heard.

Failure to observe this may cause electric shock.

Do not connect/disconnect the power plug with wet hands.

Failure to observe this may cause electric shock.

Avoid doing anything that can damage the power cord/plug.

Do not damage, modify, forcefully bend, twist, stretch or bundle the power cord, and do not put a heavy thing on the power cord. Using a damaged power cord can cause electric shock, short circuit, fire, etc.

- Contact your dealer for repair of the power cord and plug.

Grounding

The power plug of this product is 2-prong plug equipped with a grounding terminal. Use this product after confirming that grounding is properly installed.

If grounding is not installed properly, it may cause ground leakage or damage the product resulting in electric shock.

- Contact the dealer for details. (The grounding installation

Do not engage in work related to the installation and wiring during the power is on.

Failure to observe this may cause fire or electric shock.

Hold the power plug to disconnect the power cord.

Do not pull the power cord since it can cause fire, electric shock, etc.

Connect the power plug firmly.

If the power plug is not connected firmly, it can cause fire, electric shock, etc.

- Do not use the damaged power cord and loose electric outlets.

Do not connect to outlets or wiring device if their ratings are beyond the specified rating.

If the rating goes over the specified rating such by putting many loads on one electric outlet, it can cause generation of heat resulting in fire.

Do not strike or give a strong shock to this product

Failure to observe this may cause fire or electric shock.

Avoid placing this product in locations which are subject to humidity and dust.

Failure to observe this may cause fire or electric shock.

Do not block the ventilation holes.

Doing so can cause fire since it can raise the temperature inside this product high.

Precautions for use

When the product is accessible from the Internet

To prevent unauthorized access, note the following.

- Leave user authentication turned on.
- Periodically change passwords that are used to access the product.

Refer to the Operating Instructions (PDF) on our support website for information about how to change passwords.

Power source

The input power source for this product is 220 V – 240 V AC 50 Hz/ 60 Hz.

Do not connect to the outlet that provides the power to equipment that requires a measurable amount of power (such as a copy machine, air conditioner, etc.). Avoid placing this product in locations where is subject to water.

- The provided power cord(s) is (are) dedicated to the use with this product. Do not use with any other device. Also, do not use any other power cord with this product.

Ambient operating temperature

Use this product at temperatures between +5 °C to +45 °C. Failure to do so may damage the internal parts or cause malfunction.

- Performance and lifetime of hard disk drives are easily affected by heat (used at high temperature). It is recommended to use this product at a temperature of approx. +25 °C.

To cut the power supply

This product has no power switch. To cut the power supply, unplug the power plug of the product from the AC outlet. If the power cord cannot be unplugged easily due to installation condition, connect the power cord to an AC outlet via a distribution board circuit breaker with a cut-off capacity. Built-in backup battery

- Do not expose the built-in battery to excessive heat such as sunlight, fire, etc.

Hard disk drive (HDD)

- Hard disk drives are precision devices. Handle them with care. It is possible to damage them if they are moved while their motors are still running.
- Please be forewarned that any loss of information on the HDD is not guaranteed under any circumstances.
- Do not move or install this product just after turning the power on or off (for around 30 seconds.) The hard disk drives are running.
- The HDD is consumable and the lifetime differs depending on the operational environment. Write errors may occur frequently after around 20000 hours of each HDD operation and head and motor deterioration may occur after around 30000 hours of operation. They will reach the end of their lifetime after 30000 hours of operation if they have been used at the recommended ambient temperature (approx. +25 °C).
- To prevent data loss from disk crashes, it is recommended to keep the ambient operating temperature at approx. +25 °C and to replace them after around 18000 hours of operation.
You can check the operating time of each HDD in
“Operation” of the “HDD information” tab under
“Maintenance” under “Advanced” from the setup menu.
- When hard disk drive trouble occurs, replace it immediately. Contact your dealer about servicing.

About external storage devices (External HDD and USB memory)

- An external hard disk drive or a USB memory that is compatible with USB3.0 can be connected to the copy port to use as the external storage device.
- Use external storage devices formatted in exFAT, FAT (FAT16) or FAT32.
- USB media recognizable by the recorder can be formatted by the recorder. Refer to Operating Instructions (PDF) for the format procedure.
- External storage devices requiring password authentication or a special driver or using an encryption function cannot be used.

Prevent condensation from forming

If this happens, it can cause malfunction. Leave it switched off for around 2 hours in the following cases.

- When this product is placed in an extremely humid place.
- When this product is placed in a room where a heater has just been turned on.
- When this product is moved from an air-conditioned room to a humid and high-temperature room.

About the monitor

When displaying the same image on the PC monitor for a long time, it may cause image burn-in on the PC monitor.

Cleaning

- Turn the power off, and then use a soft cloth to clean this product.
- Do not use strong or abrasive detergents when cleaning the body.
- When using a chemical cloth for cleaning, read the caution provided with the chemical cloth product.

Product disposal/transfer

Images saved on the storage device used with this product may lead to personal information leakage. When it is necessary to dispose or give this product to someone, even when for repair, make sure that there is no data on the hard disk drives.

Indication label

Refer to the indication label placed on the surface of this product for the equipment classification and power source, etc.

AVC Patent Portfolio License

THIS PRODUCT IS LICENSED UNDER THE AVC PATENT PORTFOLIO LICENSE FOR THE PERSONAL USE OF A CONSUMER OR OTHER USES IN WHICH IT DOES NOT RECEIVE REMUNERATION TO (i) ENCODE VIDEO IN COMPLIANCE WITH THE AVC STANDARD ("AVC VIDEO") AND/OR (ii) DECODE AVC VIDEO THAT WAS ENCODED BY A CONSUMER ENGAGED IN A PERSONAL ACTIVITY AND/OR WAS OBTAINED FROM A VIDEO PROVIDER LICENSED TO PROVIDE AVC VIDEO.

ADDITIONAL INFORMATION MAY BE OBTAINED FROM MPEG LA, L.L.C.

SEE [HTTP://WWW.MPEGLA.COM](http://WWW.MPEGLA.COM)

About reboot of this product In the following cases, this product will automatically reboot to continue recording.

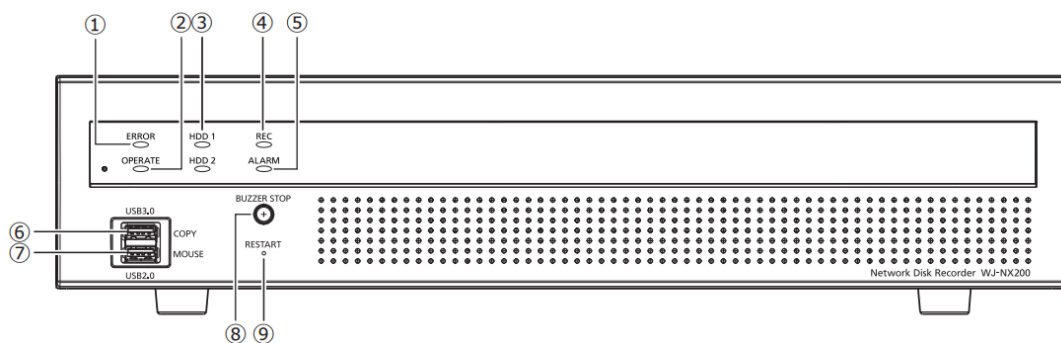
- When the software of this product has detected the internal error and reboot becomes necessary.

Disclaimer of warranty on recorded data

i-PRO Co., Ltd. assumes no responsibility or liability, directly or indirectly, for failure of recording or editing including loss of data due to any reason or cause which does not exclude repair or maintenance of this product regardless whether the subject is hard disk or other parts.

Major operating controls and their functions

Front view



1. Error indicator [ERROR]

Blinks when an error that can become a problem for the recorder to run the system occurs.

Blinks red: System error

Blinks orange: Thermal error, cooling fan malfunction, etc.

Shows a solid light when automatically reset from an error status.

2. Operation indicator [OPERATE]

Lights when the power is on.

3. [HDD1]/[HDD2] indicator

Indicates the operational status (access/failure) of the respective hard disk drive.

Blinks green: Indicates that the respective hard disk drive is being accessed.

Lights red: Indicates that a fault (or an error) has occurred on a hard disk drive.

Off: Indicates that the respective hard disk drive is not being accessed.

4. Recording indicator [REC]

Lights orange when recording is being performed.

5. Alarm indicator [ALARM]

Blinks when an alarm occurs, and lights when the alarm output stops. This indicator will go off when the [Reset] button (🔍 Operating Instructions (PDF)) is clicked.

6. Copy port (USB3.0) [COPY]

Connect an external storage device (external Hard disk drive, USB memory) to this port and copy images and audio recorded on the hard disk drive. An external storage device can also be connected to the copy port on the rear. Use either of them.

- Mouse connection is also available.

7. Mouse connection port (USB2.0) [MOUSE]

The provided mouse is connected to this port. A mouse can be connected to the mouse connection port on the rear. Use either of them.

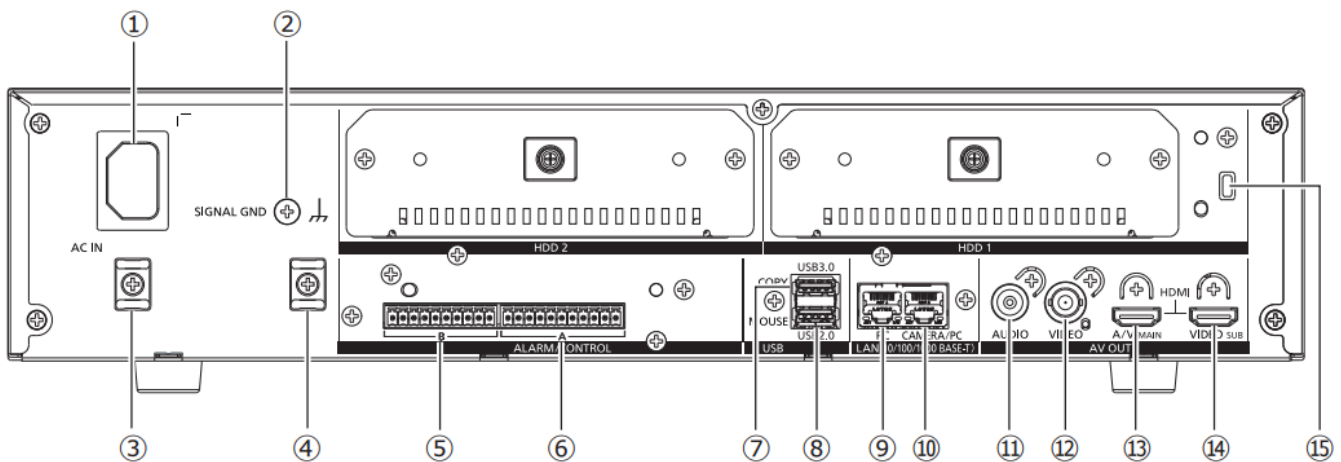
8. Buzzer stop button [BUZZER STOP]

Press this button to stop the buzzer that started sounding at an alarm/error occurrence. Refer to the Operating Instructions (PDF) for further information about alarms and errors.

9. Restart switch [RESTART]

Restarts the recorder. Insert a fine stick, like a paper clip and keep pressing for more than 5 seconds.

Rear view

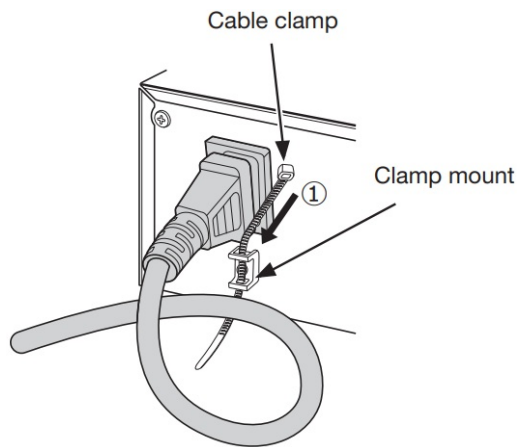


1. Power cord inlet [AC IN]

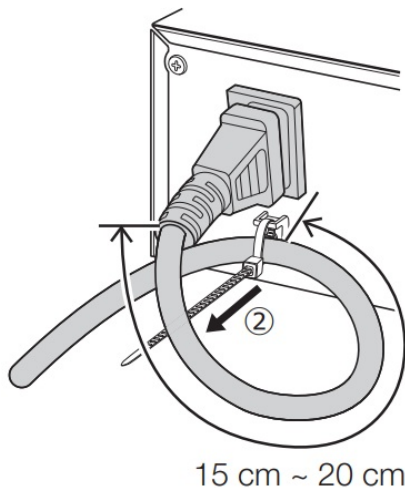
Connect the provided power cord to this inlet. The power plug of the recorder is 2-prong plug equipped with a grounding terminal.

How to prevent power cord disconnection

Fix a 15 cm ~ 20 cm space from the power cord connector with the attached cable clamp passed through the clamp mount.



1. Pass the cable clamp (provided) through the clamp mount.



2. Tighten the power cord at 15 cm to 20 cm from the connector and fix it to the clamp mount. Cut the surplus part of the cable clamp as necessary.

3. **SIGNAL GND terminal [SIGNAL GND]**

Connect this terminal with the SIGNAL GND terminals of the devices in the system for signal ground. When operating the recorder and the devices in the system without signal ground, noise may be produced. Clamp mount (To prevent power cord disconnection)

4. **Clamp mount (For terminal cable clamps)**

5. **Alarm/Control connector B [B]**

It is used when connecting an alarm, such as a buzzer or a lamp, to external equipment.

The provided terminal plug (10 pin) is attached.

6. **Alarm/Control connector A [A]**

It is used when connecting with an external device such as a sensor or anti-theft door switch that output alarm signals.

The provided terminal plug (11 pin) is attached.

7. **Copy port (USB3.0) [COPY]**

Connect an external storage device (external Hard disk drive, USB memory) to this port and copy images and audio recorded on the hard disk drive. An external storage device can also be connected to the copy port on the front. Use either of them.

- Mouse connection is also available.

8. **Mouse connection port (USB2.0) [MOUSE]**

The provided mouse is connected to this port. The mouse can be connected to the mouse connection ports on

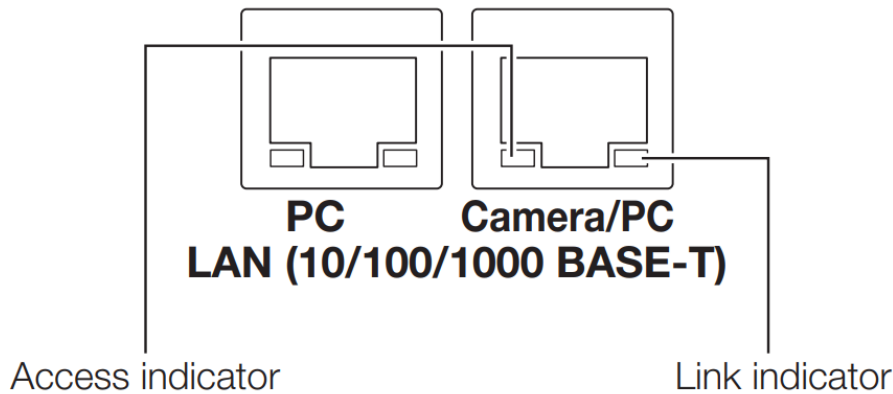
the front. Use either of them.

9. Network port (PC port) [PC]

Connect the recorder with a PC via a network compatible with 10BASE-T, 100BASE-TX or 1000BASE-T. Use this port when the cameras and the PC are connected to different network.

10. Network port (Camera/PC port) [CAMERA/PC]

Connect the recorder with a PC and cameras via a network compatible with 10BASE-T, 100BASE-TX or 1000BASE-T. When the port is being accessed, the access indicator (green) blinks. When the port is being linked, the link indicator (orange) lights.



11. Audio output connector (RCA pin jack) [AUDIO OUT]

Connect such device as a powered speaker. Same audio output to the main monitor will be output from this connector.

12. Video output connector (BNC) [VIDEO OUT]

Connect a sub monitor (BNC) to this connector. Same images output from the sub monitor output connector (HDMI) will be output from this connector.

The default is PAL output. The setup menu will not be displayed.

13. Main monitor output connector (HDMI) [A/V OUT MAIN]

This connector is used to connect to an HDMI-ready monitor (the main monitor). It displays live images, recorded images, or the setup menu of the recorder.

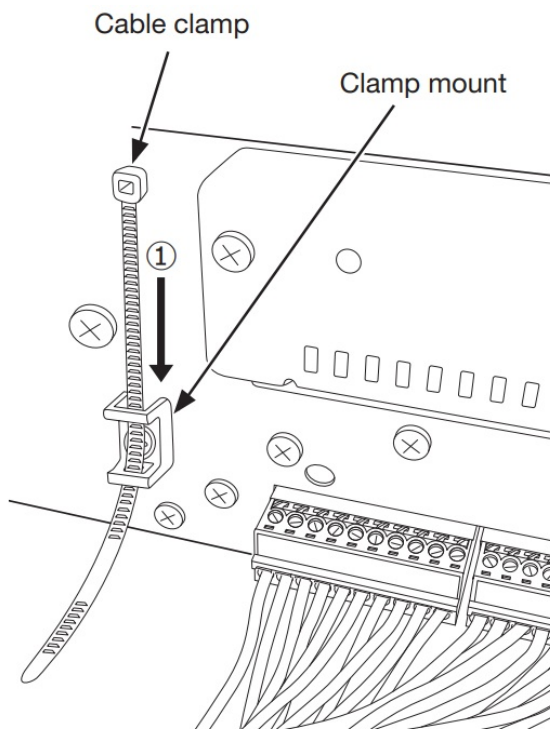
14. Sub monitor output connector (HDMI) [VIDEO OUT SUB]

This connector is used to connect to an HDMI-ready monitor (sub monitor). Only the live images will be displayed.

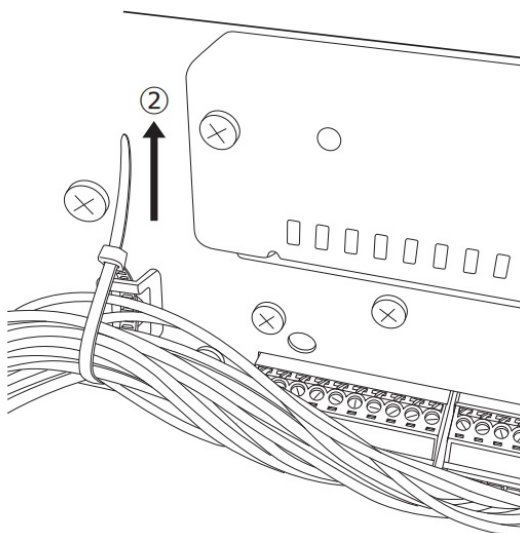
15. Security wire hole

Mount the lock device for the anti-theft security wire.

How to use the cable clamp (for fixing the terminal block cables)



1. Pass the cable clamp (provided) through the clamp mount.




2. Tie the cables of the ALARM/CONTROL terminals and fix with the cable clamp.

User/Host management

It is necessary to register users who operate the recorder and hosts (PC) that accesses the recorder via a network such as a LAN. Up to 32 users can be registered.

It is possible to register the following for the user information.


Item	Description
User name	User name is to be registered to log in to the recorder. The user name will be entered at the time of login.
Password	Password is to be registered to log in to the recorder together with the user name. The password will be entered at the time of login.
Level	Users are classified into the following levels depending on the available operations. Administrator/Manager/Operator/Viewer/Logged out The administrators can perform all the configurations and operations. It is possible to select in advance the functions that can be controlled by users at other levels. ( Operating Instructions (PDF))
Priority level	Priority level indicates the operational priority. Users at each level are assigned the fixed priorities ranging from “0” (Highest) to “4” (Low). Administrator 0 Highest Manager 1 High Operator 2 Viewer 3 Logged out 4 Low When the two or more users at the same level perform the same operation, the recorder will be controlled in accordance with the latest operation.
Default screen	Select a startup screen to be displayed on the main monitor or a PC screen after login from the following.

When operating from a PC via a network

Operation of the recorder can be made using a PC via a network. Up to 16 hosts (PCs) can access the recorder at the same time.

When another host (PC) tries to log in to the recorder after 16 hosts (PCs) have already logged in, the user with the lowest priority will be logged out. When the user who is trying to log in has the same priority as the users who have already logged in, the user whose login is the earlier is logged out.

When accessing the recorder from a PC via a network, the log-in authentication method is different as follows depending on the “User authentication” settings of the “Basic” tab under “User management” under “Advanced” from the setup menu.

( Operating Instructions (PDF))

User authentication setting	User/Host to log in	Remarks
Off	Log in as an administrator.	
On (default)	Log in as a registered user.	The login window will be displayed.

SymptomCause/solutionThe “Thermal error” indication is displayed on the main monitor.Check if the fan is malfunctioning.The clock of the recorder may keep bad time.The clock function of the recorder is accurate within ±30 seconds per month.To keep the correct recording, set the time periodically, or enable the auto time adjustment function on the rear panel terminal, or configure the system using the NTP function so as to keep the correct current time.[HDD] indicator lights/blinks red.The hard disk drive is faulty. Contact your dealer.The error indicator blinks red.A system error occurred. Contact your dealer.”Authentication error” of the camera is displayed.Initialize the camera and retry the camera registration upon referring to the operating instructions of the camera.

Symptom	Cause/solution	Ref. pages
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Power is not turned on.	<ul style="list-style-type: none"> Is the power plug connected to the outlet firmly? Confirm the cable is firmly connected. 	–
	<ul style="list-style-type: none"> Check if the power cord is properly inserted into the power socket of the recorder. Check if it is connected firmly. 	16
Camera images are not displayed on the monitor.	<ul style="list-style-type: none"> Is the lens cap of the camera detached from the camera? Check whether the lens cap is removed. 	–
	<ul style="list-style-type: none"> Is the power of the camera and connected devices on? Check whether the power is supplied to the camera and the devices. 	–
	<ul style="list-style-type: none"> Confirm that the cables are connected correctly and firmly. Confirm the cables are firmly connected. 	Installation Guide
	<ul style="list-style-type: none"> Depending on the HDMI monitor, it may not be displayed properly. Turn the monitor off and on and check whether it is displayed. 	–
	<ul style="list-style-type: none"> Is the monitor luminance appropriately adjusted, or is the contrast appropriately adjusted? Check whether the settings are appropriate. 	–
	<ul style="list-style-type: none"> Users who have logged into the system may not be authorized to display the images from cameras. Check the user level settings of these users. 	Operating Instructions
Part of the displayed image is missing.	<ul style="list-style-type: none"> This phenomenon is caused by dispersion of display area on the monitor. This is not a malfunction. 	–
	<ul style="list-style-type: none"> When a function to automatically enlarge the images in the connected monitor is enabled, some part of the images may not be displayed depending on the photographic subject. 	–

Image is blurred.	<ul style="list-style-type: none"> Is the lens of the camera soiled with dirt or dust? Check whether the lens of the camera is clean. 	–
Cannot open the setup menu.	<ul style="list-style-type: none"> Users who have logged into the system may not be authorized to display the setup menu. Check the user level settings of these users. 	Operating Instructions
	<ul style="list-style-type: none"> Isn't it the sub monitor you are currently operating? The setup menu cannot be displayed on the sub monitor. 	Installation Guide
The images or embedded characters displayed on the monitor look blurry.	<ul style="list-style-type: none"> Depending on the photographic subject or HDMI monitor that is connected, images or embedded characters may look blurry. This phenomenon is not trouble. 	–
No alarm action is taken.	<ul style="list-style-type: none"> Check if alarm input signals are properly input to the ALARM / CONTROL connector at the rear panel. 	Installation Guide
	<ul style="list-style-type: none"> Are the settings of the alarm connector appropriate? 	Operating Instructions
	<ul style="list-style-type: none"> Is "Off" or "Recording only" selected for "Mode"? Check whether the settings are appropriate. 	Operating Instructions
The "Communication error: Cam.cc" indication is displayed on the main monitor. ("cc" indication)	<ul style="list-style-type: none"> Confirm that the camera is connected correctly and firmly. Check the camera connection. 	Installation Guide
	<ul style="list-style-type: none"> If the connection is appropriate, the cable may be broken or the camera may be out of order. Consult the dealer. 	–
	Ref. pages	
	Operating Instructions	
	<ul style="list-style-type: none"> Check if the recorder ventilation holes or cooling fan are blocked, and also check for dust collected around the ventilation holes. 	Installation Guide

tes the camera number.)	<ul style="list-style-type: none"> The ambient operating temperature is +5 °C to +45 °C. The “Thermal error” is displayed based on the internal thermal information of the HDD. If the “Thermal error” indication is displayed, it is recommended to change the installation environment so that the ambient temperature is maintained at approx. +25 °C. When the “Thermal error” indication is displayed frequently, contact your dealer. 	13
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	Installation Guide	
	15	
	Installation Guide	

Inspect the power cord, power plug and connectors periodically.

Specifications

General	
Power source:	220 V to 240 V AC, 50 Hz/60 Hz
Power consumption:	56 W (126 VA)
Ambient operating temperature:	Main body: +5 °C – +45 °C
	Mouse (accessory): +5 °C – +40 °C
Ambient operating humidity:	5 % to 90 % (non condensing)
Maximum operating altitude:	2000 m above sea level
Recording compression method:	H.265, H.264, JPEG
Dimensions	420 mm (W) × 88 mm (H) × 300 mm (D) (excluding rubber feet and projections)
Mass:	Approx. 5.2 kg When two hard disk drives are installed: Approx. 6.6 kg
Finish:	Front view: Solid metallic coating, Resin Top cover: Solid metallic coating, Zinc-coated steel Rear view: Zinc-coated steel
Input/Output	
Video:	Video output connector: 1 V [p-p]/75 Ω, ×1 (BNC) Monitor (HDMI) connector: HDMI, ×2 (19 pin, type A)
Main monitor	
	3840 × 2160 (4K) p/30 Hz

	3840 × 2160 (4K) p/25 Hz
	1920 × 1080 p/60 Hz
	1920 × 1080 i /60 Hz
	1920 × 1080 p/50 Hz
Sub monitor	
	1920 × 1080 p/60 Hz
	1920 × 1080 i /60 Hz
	1920 × 1080 p/50 Hz
	1920 × 1080 i /50 Hz
Audio:	Audio output connector: –10 dBv, 600 Ω , unbalanced ×1 (RCA pin jack)
Mouse connection port:	High-speed serial interface, 480 Mbps (theoretical value), USB2.0, ×2
Copy port:	High-speed serial interface, 5 Gbps (theoretical value), USB3.0, ×2
Alarm/Control connector A:	Alarm input 1-9*1 , Alarm output*2 (Terminal plug (11 pin) ×1)
Alarm/Control connector B:	Network error output*2 , Alarm reset input*1 , Emergency recording input*1 , HDD error/Recording
	error output*2 , Camera error output*2 , Recorder error output*2 , Face matching output*2 , Time adjustment I/O*1 * 2 , +5 V output*3 (Terminal plug (10 pin) ×1)
Network port (Camera/PC):	10BASE-T/100BASE-TX/1000BASE-T (RJ-45) ×1
Network port (PC):	10BASE-T/100BASE-TX/1000BASE-T (RJ-45) ×1
Support protocols:	HTTP, HTTPS, RTP, RTSP, TCP/IP, UDP/IP, FTP (Server), SMTP, NTP (Server, Client), DNS, SNMP, POP3
*1 Non-voltage make contact input +3.3 V pull-up Approx. 23 kΩ *2 Open collector output 24 V DC max., –200 mA max. *3 +5 V ±0.5 V 200 mA max.	
• Option	
Additional Camera Kit	WJ-NXE20, WJ-NXE20W
Secure Communication Kit (license for 1 camera)	WJ-NXS01, WJ-NXS01W
Secure Communication Kit (license for 4 cameras)	WJ-NXS04, WJ-NXS04W
Secure Communication Kit (license for 16 cameras)	WJ-NXS16, WJ-NXS16W
Secure Communication Kit (license for 32 cameras)	WJ-NXS32, WJ-NXS32W

Additional Business Intelligence Kit	WJ-NXF02, WJ-NXF02W
Rack mount bracket	WV-Q202

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Documents / Resources

 <p>Thumbnail image of the WJ-NX200G Network Disk Recorder, showing the front panel with the i-PRO logo and model number.</p>	<p>i-PRO Products WJ-NX200G Network Disk Recorder [pdf] Instruction Manual WJ-NX200G Network Disk Recorder, WJ-NX200G, Network Disk Recorder, Disk Recorder, Recorder</p>
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