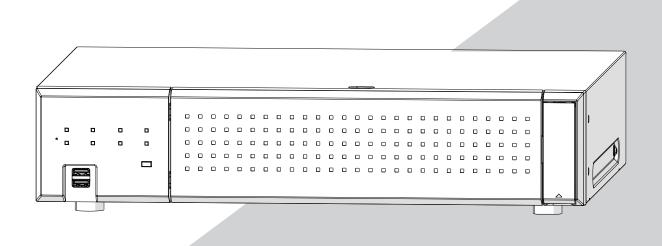


Important Information Network Disk Recorder WJ-NX310K Series

For professional use only



WJ-NX310K Series refer to WJ-NX310K, WJ-NX310KG and WJ-NX310KGV.



Before attempting to connect or operate this product, please read these instructions carefully and save this manual for future use.

Important Safety Information

Caution:

- This recorder is only intended for a connection to an ethernet or PoE network without routing to the outside plant.
- Be sure to install disconnect devices such as a circuit breaker to shut down the main power of power supplying equipment to this product.
- The socket-outlet shall be easily accessible.
- Before attempting to connect or operate this product, please read these instructions carefully.

WARNING:

- All work related to the installation and earthing of this product should be made by qualified service personnel or system installers.
- Operation of this product in a residential environment could cause radio interference.

Notice:

- This product is not suitable for use in locations where children are likely to be present.
- For information about screws and other parts required for installation, refer to the corresponding section of this document.
- The power supply cord is used as the main disconnect device, ensure that the socket-outlet is located/installed near the equipment and is easily accessible.
- This product is a professional equipment.

4

: Functional earthing; functional grounding(US) symbol

: Direct current symbol

 \sim :

: Alternation current symbol

: Polarity of d.c. power connector

\^\\

: For indoor use only

모

: Computer network

ф

: Mouse port

•<

: USB port

: "ON"/"OFF" (push-push)

ForUSA

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.

- For U.S.A.

Supplier's Declaration of Conformity

Trade Name: i-PRO Model No. : WJ-NX310K

Responsible Party: i-PRO Americas Inc.

8550 Fallbrook Drive, Suite 200

Houston, Texas 77064 Support Contact: 1-800-513-5417

For U.S.A.

The model number and serial number of this product may be found on the surface of the unit.

You should note the model number and serial number of this unit in the space provided and retain this book as a permanent record of your purchase to aid identification in the event of theft.

| Model No. | | | |
|------------|--|--|--|
| Serial No. | | | |
| | | | |

CAN ICES-3(A)/NMB-3(A)

For Canada

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.

FCC Caution:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For U.K

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 your local 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.

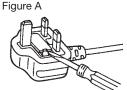


Figure B



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Introduction

Preface

The network disk recorders WJ-NX310K Series equipped H.265 CODEC and are designed for use within a H.265 surveillance system, and record images/audio from up to 16 network cameras (hereinafter, cameras) on the hard disk drives (HDDs). Number of cameras to be used in the system can be increased to 32 (maximum) by purchasing the Additional Camera Kit (WJ-NXE32W, WJ-NXE33W).

Hereinafter, WJ-NX310K referred to NX310, or the recorder.

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 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 a mouse (accessory) to this recorder, quick operations are available while viewing a monitor.

By using "Easy Start", 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.

* A PC will be necessary for some of the camera settings and viewing the instruction manual.

RAID function

This recorder enables operation of RAID 1.

HDD stand-by control function

By temporarily pausing HDDs other than those which are recording or waiting for recording, set a mode not to count the operation time of a hard disk drive and extend the time it takes to replace the HDD.

*This function requires 3 or more HDDs for single mode. This function does not apply for mirroring mode.

The copy port equipped

You can copy the images recorded on the camera with an external HDD and USB memory (sold separately).

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

Secure communication function

The SSL communication can be used for communication between the recorder and camera, and between the recorder and PC. Also, by registering a license of a secure communication kit (option), you can use the function to encrypt the video data itself.

MP4 download function

Recorded camera images can be copied to USB media or downloaded to a PC in MP4 format.

Third-party cameras can be connected

In addition to our cameras, third-party ONVIF® compatible cameras can be connected. Third-party cameras can also be connected via RTSP by specifying the URL.

* ONVIF is a trademark of ONVIF, Inc.

Introduction (continued)

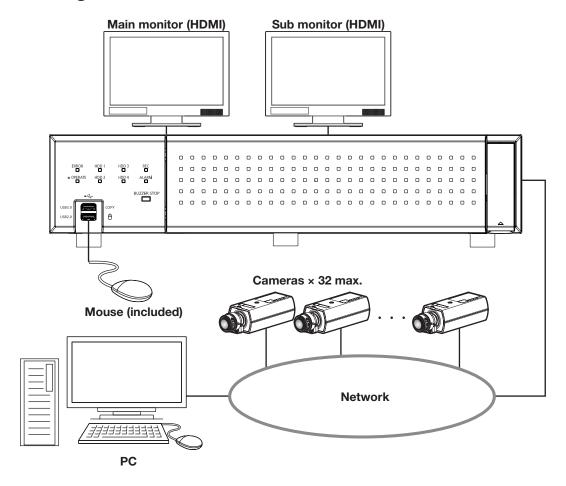
Protection against power failure

The built-in function protects the equipment and recorded data in the event of AC power interruption such as sudden power failure. This function makes it possible to turn off the AC power without having to stop recording or perform other operations. *It does not guarantee that the equipment will not malfunction in the event of all possible power interruptions.

In addition, there is a possibility that the data recorded immediately prior to the power failure will not be saved.

If it is necessary to guarantee the operation of the equipment or to continue recording operation even in the event of a power failure, use an uninterruptible power supply or similar device in combination.

System Configuration



System requirements for a PC

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

OS: Microsoft Windows 10, Microsoft Windows 11
Web browser: Microsoft Edge, Google Chrome™, Mozilla Firefox

CPU: Intel® CoreTM i7-860

Memory: 4 GB or more

Monitor: 1920 × 1080 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: DirectX® 9.0c or later

Adobe® Reader® or Acrobat Reader® (for viewing the manuals)

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.

Trademarks and registered trademarks

- Adobe, Acrobat, and Reader are either registered trademarks or trademarks of Adobe in the United States and/or other
 countries.
- Microsoft, ActiveX, DirectX, Edge and Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- Microsoft product screen shot(s) reprinted with permission from Microsoft Corporation.
- Intel and Intel Core are trademarks of Intel Corporation or its subsidiaries in the U.S. and/or other countries.
- Google Chrome are trademarks of Google LLC.
- Firefox is a trademark of the Mozilla Foundation in the US and other countries.
- The terms HDMI, HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. in the United States and other countries.
- All other trademarks identified herein are the property of their respective owners.

About HEVC (High Efficiency Video Coding) patents

Covered by one or more claims of the HEVC patents listed at patentlist.accessadvance.com.

Copyright

Except for open source software licensed under GPL/LGPL and so on, distributing, copying, disassembling, reverse compiling and reverse engineering of the software provided with this product are all expressly prohibited. In addition, exporting any software provided with this product violating export laws is prohibited.

Disclaimer of warranty

IN NO EVENT SHALL i-PRO Co., Ltd. BE LIABLE TO ANY PARTY OR ANY PERSON, EXCEPT FOR REPLACEMENT OR REASONABLE MAINTENANCE OF THE PRODUCT, FOR THE CASES, INCLUDING BUT NOT LIMITED TO BELOW:

- (1) ANY LOSS OR DAMAGE, INCLUDING WITHOUT LIMITATION, DIRECT OR INDIRECT, SPECIAL, CONSEQUENTIAL OR EXEMPLARY, ARISING OUT OF OR RELATING TO THE PRODUCT;
- (2) ANY INCONVENIENCE, LOSS, OR DAMAGE CAUSED BY INAPPROPRIATE USE OR NEGLIGENT OPERATION OF THE USER:
- (3) ALL MALFUNCTIONS OR TROUBLES FROM UNAUTHORIZED DISASSEMBLE, REPAIR OR MODIFICATION OF THE PRODUCT BY THE USER, REGARDLESS OF THE CAUSE OF THE MALFUNCTION OR TROUBLE;
- (4) INCONVENIENCE OR ANY LOSS ARISING WHEN IMAGES ARE NOT DISPLAYED, DUE TO ANY REASON OR CAUSE INCLUDING ANY FAILURE OR PROBLEM OF THE PRODUCT;
- (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 ORGANIZATIO 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 REPAIR OR 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.
- 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.

Limitation of liability

THIS PUBLICATION IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT OF THE THIRD PARTY'S RIGHT.

THIS PUBLICATION COULD INCLUDE TECHNICAL INACCURACIES OR TYPOGRAPHICAL ERRORS.

CHANGES ARE ADDED TO THE INFORMATION HEREIN, AT ANY TIME, FOR THE IMPROVEMENTS OF THIS PUBLICATION AND/OR THE CORRESPONDING PRODUCT (S).

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

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 cost is not included in the price of this product.)

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 (continued)

Precautions for use

Power source

The input power source for this product is 100 V - 240 V AC 50 Hz/ $60\ \text{Hz}.$

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 included 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 0 $^{\circ}$ C to +45 $^{\circ}$ 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.

Static electricity

When installing, maintaining, or operating this product, in order to remove the static electricity before touching, touch a metal object (steel desk, doorknob, etc.) with your hand first

Static electricity can cause malfunction or failure of this product.

About protection against lightning

If cables are pulled in from outdoors, they may be affected by lightning. In that case, install a lightning arrester in the immediate vicinity of the unit and wire the network cable length between the unit and the lightning arrester as short as possible to avoid being affected by lightning.

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)

- Use external storage devices formatted in exFAT, FAT (FAT16) or FAT32.
- 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.

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.

Precautions (continued)

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.

Also, be sure to delete device and user information registered with external services and applications that use this puroduct.

Indication label

Refer to the indication label placed on the top cover or bottom of this product for the equipment classification and power source, etc.

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 recoded 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.

About CR Coin Cell Lithium Battery

This product contains a CR Coin Cell Lithium Battery which contains Perchlorate Material – special handling may apply. See www.dtsc.ca.gov/hazardouswaste/perchlorate.

About use of external services, etc.

Functions that use external services or other devices may stop or malfunction due to external influences.

About portrait rights

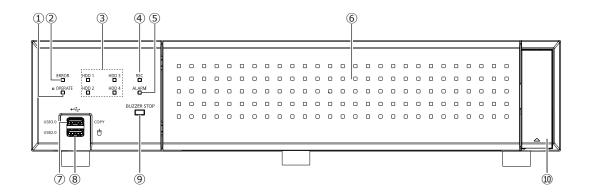
It is the customer's responsibility to install the camera and use the footage, taking into consideration the privacy and portrait rights of the subject.

About temperature sensor

This product has a temperature sensor to measure the internal temperature.

Major operating controls and their functions

Front view



1 Operation indicator [OPERATE]

Lights when the power is on.

2 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.

3 HDD status indicator [HDD1] [HDD2] [HDD3] [HDD4]

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) is clicked.

6 Front cover

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 rear. Use one of them.

8 Mouse connection port (USB2.0) [$^{\circ}$]

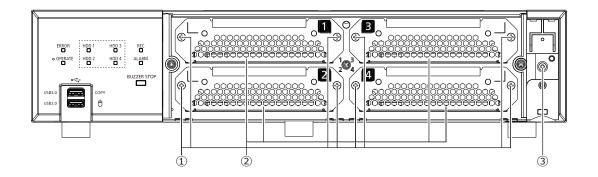
The included mouse is connected to this port.

9 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 for further information about alarms and errors.

Decorative cover

Inside the front cover



1 HDD bracket screw

These are screws to fix the HDD bracket. The screws do not detach from the bracket.

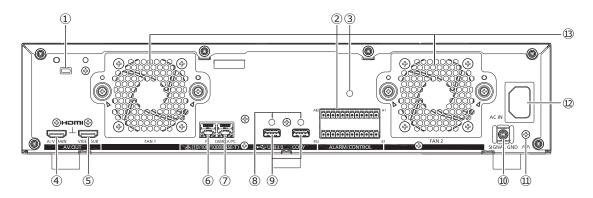
2 HDD bracket

Install the HDD. Refer to "Installation of the hard disk drive" in the operating instructions for the installation of the HDD.

3 Screw hole for front cover screw

This is a screw hole to fix the front cover with a screw attached after installing the front cover.

Rear view



1 Security wire hole

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

2 Alarm/Control connector ALARM/CONTROL

It is used when connecting with an external device, such as sensor or anti-theft door switch that output alarm signal and when connecting external alarm device, such as buzzer and lamp.

Two included terminal plugs (12 pin) can be attached.

3 Cable clamp fixing hole (for fixing the terminal block cables)

This is a fitting hole for the cable clamp (included) to tie and fix the terminal block cables. Refer to 🔊 page 14 for fitting.

4 Main monitor output connector (HDMI) [A/V 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.

5 Sub monitor output connecter (HDMI) [VIDEO SUB]

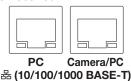
This connector is used to connect to an HDMI-ready monitor (sub monitor). Only the live images will be displayed.

6 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.

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. Only the right indicator (orange) lights during linking up at 1000M, only the left indicator (green) lights during linking up at 100M, and both indicators light during linking up at 10M. The indicator blinks when data is being sent or received.



® Cable clamps fixing holes (for fixing the copy port cables)

Fit the cable clamp (included) to fix the copy port connection cable. Refer to page 15 for fixing.

9 Copy port (USB3.0) COPY (x2)

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 one of them.

Power cord clamp mount

Fit the power cord clamp (included) to fix the power cord. Refer to page 14 for fixing.

(II) 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.

Power cord inlet [AC IN]

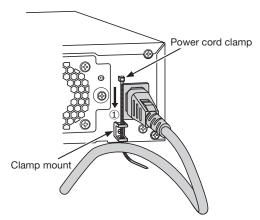
Connect the included power cord to this inlet.

(13) Cooling fan outlet

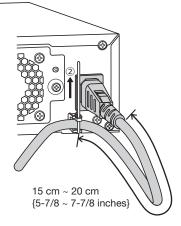
How to fix the power cord

Fix the power cord at 15 cm to 20 cm $\{5-7/8 \text{ to } 7-7/8 \text{ inches}\}$ from the connector with the included power cord clamp passed through the clamp mount.

Fix the power cord so that it does not block the cooling fan outlet.



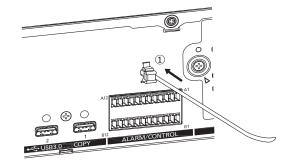
① Pass the power cord clamp through the clamp mount.



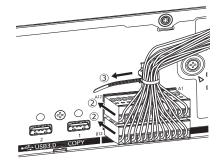
②Tighten the power cord at 15 cm to 20 cm {5-7/8 to 7-7/8 inches} from the connector and fix it to the clamp mount.

Cut the unnecessary part of the power cord clamp as necessary.

Fitting of the cable clamp (for fixing the terminal block cables)



① Insert the cable clamp (accessory) in the cable clamp fixing hole.



- ② Insert the terminal plugs into the Alarm/Control connector A and B.
- ③ Bundle the cables of the terminal plugs, tighten them with the cable tie of the cable clamp (accessory) and fix them.

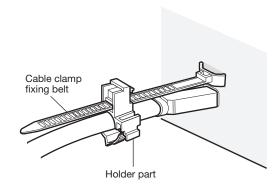
How to use the cable clamp (for fixing the copy port cable)

Fix the connection cable using the included cable clamp as follows.

Step 1

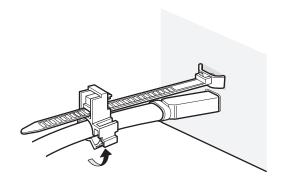
Attach the cable clamp fixing belt to the fixing hole on the rear, and attach the holder part of the cable clamp behind the connector end of the connection cable.

Pull the cable clamp fixing belt to confirm that the fixing belt is not pulled out from the rear of the extension unit.



Step 2

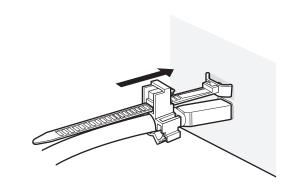
Close the clamp.



Step 3

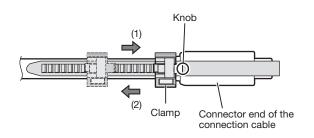
Slide the cable clamp toward the connector end of the connection cable, and then hold the connector end of the connection cable.

Make sure that the connection cable is connected firmly.



Note:

· Overhead view



- Hold the connector end of the connection cable by sliding the holder part in the direction of arrow indication (1).
 If the holder part is not slide all the way to the connector end side, the cable may come out.
- To slide the holder part in the direction of arrow (2), slide it while keeping the knob pulled down.

User/Host management

It is necessary to register users who directly operate this product, or PCs (hosts) that access through the network such as 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. (IST Operating Instructions) | | | | |
| 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 the live image display screen of the main monitor/PC screen to be displayed immediately after login. | | | | |

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)

| 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. |

Specifications

General

Power source: 100 V - 240 V AC 50 Hz/ 60 Hz

Power consumption: 95 W (100 VA)

Ambient operating temperature: Main body: 0 °C - +45 °C $\{32 \text{ °F - }113 \text{ °F}\}$

Mouse (included): +5 °C - +40 °C {41 °F - 104 °F}

Ambient operating humidity: 5 % to 90 % (non condensing)

Maximum operating altitude: 2000 m {6562 feet} above sea level

Recording compression method: H.265, H.264, JPEG

Dimensions: $420 \text{ mm (W)} \times 88 \text{ mm (H)} \times 370 \text{ mm (D)} \{16-17/32 \text{ inches (W)} . 3-15/32 \text{ inches (H)} .$

14-9/16 inches (D)} (from rack mount bracket 350 mm {13-25/32}) (excluding rubber

feet and projections)

Mass: Approx. 7.5 kg {16.6 lbs}

When four hard disk drives are installed: Approx. 10.4 kg {23.0 lbs}

Finish: Front view: Solid black coating, Resin

Top cover: Solid black coating, Zinc-coated steel

Rear view: Zinc-coated steel

Hard disk drive (Contact your dealer about purchasing hard disk drives.)

Hard disk drive: 3.5-inch hard disk drive (Up to 4 hard disk drives can be installed.)

RAID function: RAID

Input/Output

Monitor (HDMI) connector: HDMI (19 pin, type A), ×2

Main monitor

3840 × 2160 (4K) p/30 Hz 3840 × 2160 (4K) p/25 Hz 1920 × 1080 p/60 Hz 1920 × 1080 p/50 Hz

Sub monitor

1920 × 1080 p/60 Hz 1920 × 1080 p/50 Hz

Mouse connection port: High-speed serial interface, USB2.0, ×1 Copy port: High-speed serial interface, USB3.0, ×3

Alarm/Control connector: Alarm input 1-9*1, Alarm output*2, 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, External recording mode switching input*1, General purpose I/O 1-4*1*2, +5 V output*3 (Terminal

plug (12 pin) ×2)

Security wire hole: $7 \text{ mm} \times 3 \text{ mm} \{9/32 \text{ inches} \times 1/8 \text{ inches}\}$

Support protocols: HTTP, HTTPS, RTP, RTSP, TCP/IP, UDP/IP, SMTP, NTP (Server, Client), DNS, SNMP, POP3,

DHCP, MQTTS

Support web browsers: Microsoft Edge \star4 , Google Chrome $^{\intercal M}$, Mozilla Firefox

*1 Non-voltage make contact input +3.3 V pull-up Approx. 23 k Ω

*2 Open collector output 24 V DC max., –200 mA max.

*3 +5 V ±0.5 V 200 mA max.

*4 Internet Explorer compatibility mode of Microsoft Edge is not supported.

Option (as of Octobar 2023)

Additional Camera Kit (license for 8 cameras)

Additional Camera Kit (license for 16 cameras)

Secure Communication Kit (license for 1 camera)

Secure Communication Kit (license for 4 cameras)

Secure Communication Kit (license for 16 cameras)

WJ-NXS01W

WJ-NXS04W

WJ-NXS16W

WJ-NXS16W

WJ-NXS32W

POE Camera Power Unit

WJ-PU201 (F

WJ-PU201 (For U.S.) WJ-PU201/G (For Europe) WJ-PU201F/G (For Europe)

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