

Operating Instructions





Please carefully read this manual, and save this manual for future use. Before using this product, be sure to read "Read this first!" (pages 2 to 6).





Read this first!

WARNING:

This equipment must be grounded.

To ensure safe operation, the three-pin plug must be inserted only into a standard three-pin power outlet which is effectively grounded through normal household wiring.

Extension cords used with the equipment must have three cores and be correctly wired to provide connection to the ground. Wrongly wired extension cords are a major cause of fatalities.

The fact that the equipment operates satisfactorily does not imply that the power outlet is grounded or that the installation is completely safe. For your safety, if you are in any doubt about the effective grounding of the power outlet, please consult aqualified electrician.

WARNING:

- To reduce the risk of fire or electric shock, do not expose this equipment to rain or moisture.
- To reduce the risk of fire or electric shock, keep this equipment away from all liquids. Use and store only in locations which are not exposed to the risk of dripping or splashing liquids, and do not place any liquid containers on top of the equipment.

WARNING:

Always keep memory cards (optional accessory) and screws supplied with option boards (optional accessory) out of the reach of babies and small children.

WARNING:

Installation should only be performed by qualified installation personnel. Improper installation may result in the entire apparatus falling down and causing injury.

WARNING:

This equipment is compliant with Class A of CISPR 32. In a residential environment this equipment may cause radio interference.

CAUTION:

Do not remove panel covers by unscrewing. To reduce the risk of electric shock, do not remove the covers. No user serviceable parts inside. Refer servicing to qualified service personnel.

CAUTION:

To reduce the risk of fire or electric shock and annoying interference, use the recommended accessories only.

CAUTION:

In order to maintain adequate ventilation, do not install or place this unit in a bookcase, built-in cabinet or any other confined space. To prevent risk of electric shock or fire hazard due to overheating, ensure that curtains and any other materials do not obstruct the ventilation.

CAUTION:

The mains plug of the power supply cord shall remain readily operable.

The AC receptacle (mains socket outlet) shall be installed near the equipment and shall be easily accessible. To completely disconnect this equipment from the AC mains, disconnect the power cord plug from the AC receptacle.

CAUTION:

Invisible Laser radiation is emitted from the Optical fiber connector when this product is turned on. Don't look into directly into the Optical fiber connector of this product.

CAUTION:

This product uses a semiconductor laser system and is a Class 1 Laser Product complies with Radiation Performance Standards, 21CFR SUBCHAPTER J.

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Don't make any modifications.

Don't repair by yourself.

Refer servicing to qualified personnel.

CAUTION:

- Keep the temperature inside the rack to between 0 °C to 40 °C (32 °F to 104 °F).
- Bolt the rack securely to the floor so that it will not topple over when the unit is drawn out.

CAUTION:

Naked flame sources, such as lighted candles, should not be placed on the apparatus.

CAUTION:

To reduce the risk of fire or electric shock, refer mounting of the optional interface boards to qualified service personnel.

For U.S.A. and Canada

CAUTION:

This apparatus can be operated at a voltage in the range of 100–240 V AC.

Voltages other than 120 V are not intended for U.S.A. and Canada.

Operation at a voltage other than 120 V AC may require the use of a different AC plug. Please contact either a local or foreign Panasonic authorized service center for assistance in selecting an alternate AC plug.

NOTIFICATION (Canada)

CAN ICES-003 (A)/NMB-003(A)

For AK-UCU700P, AK-UCU700PS, AK-UCU710P, AK-UCU710PS

FCC NOTICE (USA)

Supplier's Declaration of Conformity

Model Number: AK-UCU700P/AK-UCU700PS/AK-UCU710P/AK-UCU710PS Trade Name: Panasonic Responsible Party: Panasonic Corporation of North America Two Riverfront Plaza, Newark, NJ 07102 Support contact: 1-800-524-1448

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.

FCC 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.

Warning:

To assure continued FCC emission limit compliance, the user must use only shielded interface cables when connecting to external units. Also, any unauthorized changes or modifications to this equipment could void the user's authority to operate it.

indicates safety information.

For AK-UCU700E, AK-UCU700ES, AK-UCU710E, AK-UCU710ES

Caution for AC Mains Lead

FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY. This product is equipped with 2 types of AC mains cable. One is for continental Europe, etc. and the other one is only for U.K.

Appropriate mains cable must be used in each local area, since the other type of mains cable is not suitable.

FOR CONTINENTAL EUROPE, ETC. Not to be used in the U.K.



FOR U.K. ONLY If the plug supplied is not suitable for your socket outlet, it should be cut off and appropriate one fitted.

FOR U.K. ONLY

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

A 13 amp fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 13 amps 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 Panasonic Dealer.

How to replace the fuse

1. Open the fuse compartment with a screwdriver.



indicates safety information.

EMC NOTICE FOR THE PURCHASER/USER OF THE APPARATUS

1. Pre-requisite conditions to achieving compliance with the above standards

- <1> Peripheral equipment to be connected to the apparatus and special connecting cables
 - The purchaser/user is urged to use only equipment which has been recommended by us as peripheral equipment to be connected to the apparatus.
 - The purchaser/user is urged to use only the connecting cables described below.
- <2> For the connecting cables, use shielded cables which suit the intended purpose of the apparatus.
 - Video signal connecting cables

Use double-shielded coaxial cables, which are designed for 75-ohm type high-frequency applications, for SDI (Serial Digital Interface).

Coaxial cables, which are designed for 75-ohm type high-frequency applications, are recommended for analog video signals.

- Audio signal connecting cables
- If your apparatus supports AES/EBU serial digital audio signals, use cables designed for AES/EBU.

Use shielded cables, which provide quality performance for high-frequency transmission applications, for analog audio signals.

Other connecting cables (LAN, RS-422)

Use double shielded cables, which provide quality performance for high-frequency applications, as connecting cables.

- When connecting to the DVI signal terminal, use a cable with a ferrite core.
- If your apparatus is supplied with ferrite core(s), they must be attached on cable(s) following instructions in this manual.

2. Performance level

The performance level of the apparatus is equivalent to or better than the performance level required by these standards. However, the apparatus may be adversely affected by interference if it is being used in an EMC environment, such as an area where strong electromagnetic fields are generated (by the presence of signal transmission towers, cellular phones, etc.). In order to minimize the adverse effects of the interference on the apparatus in cases like this, it is recommended that the following steps be taken with the apparatus being affected and with its operating environment:

- 1. Place the apparatus at a distance from the source of the interference.
- 2. Change the direction of the apparatus.
- 3. Change the connection method used for the apparatus.
- 4. Connect the apparatus to another power outlet where the power is not shared by any other appliances.

AEEE Yönetmeliğine Uygundur. AEEE Complies with Directive of Turkey.

Manufactured by:

Panasonic Entertainment & Communication Co., Ltd. 1-10-12, Yagumo-higashi-machi, Moriguchi City, Osaka, Japan Importer: Panasonic Connect Europe GmbH Hagenauer Strasse 43, 65203 Wiesbaden, Germany Authorized Representative in EU: Panasonic Connect Europe GmbH Panasonic Testing Centre Winsbergring 15, 22525 Hamburg, Germany

Importer for UK:

Panasonic Connect UK, a branch of Panasonic Connect Europe GmbH, Maxis 2, Western Road, Bracknell, Berkshire, RG12 1RT

Disposal of Old Equipment

Only for European Union and countries with recycling systems

This symbol on the products, packaging, and/or accompanying documents means that used electrical and electronic products must not be mixed with general household waste.

For proper treatment, recovery and recycling of old products, please take them to applicable collection points in accordance with your national legislation.

By disposing of them correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment.

For more information about collection and recycling, please contact your local authority, dealer or supplier. Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

ІНФОРМАЦІЯ ПРО ПІДТВЕРДЖЕННЯ ВІДПОВІДНОСТІ ПРОДУКТУ

Виробник:	Panasonic Entertainment & Communication Co., Ltd.	Панасонік Ентертейнмент енд Коммюнікейшн Ко., Лтд.
Адреса виробника:	Moriguchi, Osaka, Japan	Моріґучі Осака Японія
Країна походження:	Japan	Японія

Імпортер:	ТОВ "ПАНАСОНІК УКРАЇНА ЛТД"
Адреса Імпортера:	вул. Васильківська, буд. 30, м. Київ, 03022, Україна

Примітки:

Термін служби виробу	7 років

Дату виготовлення можна визначити за комбінацією букв і цифр серійного номера, що розташований на маркувальній табличці виробу.

<u>Приклад:</u>

<u>X XXXXXXX</u>

Рік: остання цифра року (6 – 2016, 7 – 2017,…0 – 2020)
Місяць: А – Січень, В – Лютий… L – Грудень

Table of Contents

Read this first!	2
Introduction	8
How to View This Manual	8
About trademarks and registered trademarks	8
About copyright	8
manual	8
	<u>م</u>
Nation	40
Personal computer requirements	10
Disclaimer of warranty	10
Network security	11
Memory cards	11
Accessories	12
Precautions for Use	13
Precautions for Installation	14
Mounting the unit in a rack	15
Parts and their functions	16
Front panel 1	16
Front panel 2	17
Rear panel 1	18
Rear panel 2	19
Rear panel 3 (with AK-NP701/AK-NP702/	
AK-NP703 option)	20
Picture monitor (PM)	21
Picture monitor displays	21
Transition of displays	22
Information display	23
Warning displays	23
IRIS display	24
Status displays	25
Operation displays	37
	39
Buttons on the LCD panel	40
About entering characters	40
	43
	44
	44
Displaying and hiding the menus	45
Basic menu operations	46
setting items on one line	48
Text input	49
CCU MENU	50
OPERATION	51
SYSTEM MODE	52
OUTPUT FORMAT	54
SETTING	56
BAR ID	57
SOURCE SETTING	
AUDIO	60
MIC OUT	60
	61
CCU INTERCOM RECEIVE	61
INTERCOM1	63

INTERCOM2	64
PGM	65
MoIP FORMAT	65
NETWORK	66
LAN	67
	00
PTP SETTING	69
ST2110 SETTING	70
SFP1(PRIMARY)	71
SFP1(PRIMARY)TX	72
SEP1(PRIMARY)RX	74
SFP2(SECONDARY)IX	
SFP2(SECONDARY)RX	80
NMOS SETTING	83
NDI/SRT SETTING	84
DNS SETTING	85
MAINTENANCE	86
START UP	87
SETUP	87
ND/CC NAME	
CCUVERSION	90
PM VIEW SETTING	91
PM OPERATION STATUS	92
SYSTEM	93
SD CARD	95
Saving and loading reference files and scene fil	es 96
Web Screen	97
Network settings	97
Network settings	97 97
Network settings	97 97
Network settings Software Using EasyIP Setup Tool Plus to set the unit's	97 97
Network settings Software Using EasyIP Setup Tool Plus to set the unit's settings	97 97 97
Network settings Software Using EasyIP Setup Tool Plus to set the unit's settings Displaying the web screen	97 97 97 97
Network settings Software. Using EasyIP Setup Tool Plus to set the unit's settings Displaying the web screen	97 97 97 97 99
Network settings Software Using EasyIP Setup Tool Plus to set the unit's settings Displaying the web screen Notice regarding the Web screen	97 97 97 97 99 99
Network settings Software Using EasyIP Setup Tool Plus to set the unit's settings Displaying the web screen Notice regarding the Web screen Displaying the web screen using a personal	97 97 97 99 99
Network settings Software Using EasyIP Setup Tool Plus to set the unit's settings Displaying the web screen Notice regarding the Web screen Displaying the web screen using a personal computer	97 97 97 99 99 99
Network settings Software Using EasyIP Setup Tool Plus to set the unit's settings Displaying the web screen Notice regarding the Web screen Displaying the web screen using a personal computer Logging into the web screen	97 97 97 99 99 99
Network settings Software Using EasyIP Setup Tool Plus to set the unit's settings Displaying the web screen Notice regarding the Web screen Displaying the web screen using a personal computer Logging into the web screen Web setting screen	97 97 97
Network settings Software Using EasyIP Setup Tool Plus to set the unit's settings Displaying the web screen Notice regarding the Web screen Displaying the web screen using a personal computer Logging into the web screen Web setting screen Product information screen IPRODUCT INFO 1	
Network settings Software Using EasyIP Setup Tool Plus to set the unit's settings Displaying the web screen Notice regarding the Web screen Displaying the web screen using a personal computer Logging into the web screen Web setting screen Product information screen [PRODUCT INFO.].	
Network settings Software Using EasyIP Setup Tool Plus to set the unit's settings Displaying the web screen Notice regarding the Web screen Displaying the web screen using a personal computer Logging into the web screen Web setting screen Product information screen [PRODUCT INFO.]. View system settings screen [SYSTEM MODE]	
Network settings Software Using EasyIP Setup Tool Plus to set the unit's settings Displaying the web screen Notice regarding the Web screen Displaying the web screen using a personal computer Logging into the web screen Web setting screen Product information screen [PRODUCT INFO.]. View system settings screen [SYSTEM MODE] Network settings screen [NETWORK]	
Network settings Software Using EasyIP Setup Tool Plus to set the unit's settings Displaying the web screen Notice regarding the Web screen Displaying the web screen using a personal computer Logging into the web screen Web setting screen Product information screen [PRODUCT INFO.]. View system settings screen [SYSTEM MODE] Network settings screen [NETWORK] ROP account settings screen	
Network settings Software. Using EasyIP Setup Tool Plus to set the unit's settings Displaying the web screen Notice regarding the Web screen Displaying the web screen using a personal computer. Logging into the web screen Web setting screen Product information screen [PRODUCT INFO.] View system settings screen [SYSTEM MODE] Network settings screen [NETWORK] ROP account settings screen [ROP ACCOUNT SETTING].	
Network settings Software. Using EasyIP Setup Tool Plus to set the unit's settings Displaying the web screen Notice regarding the Web screen Displaying the web screen using a personal computer. Logging into the web screen Web setting screen Product information screen [PRODUCT INFO.]. View system settings screen [PRODUCT INFO.] Network settings screen [NETWORK] ROP account settings screen [ROP ACCOUNT SETTING]	
Network settings Software. Using EasyIP Setup Tool Plus to set the unit's settings Displaying the web screen Notice regarding the Web screen Displaying the web screen using a personal computer. Logging into the web screen Web setting screen Product information screen [PRODUCT INFO.] View system settings screen [PRODUCT INFO.] View system settings screen [SYSTEM MODE] Network settings screen [NETWORK] ROP account settings screen [ROP ACCOUNT SETTING] User management screen [USER MNG.].	
Network settings Software. Using EasyIP Setup Tool Plus to set the unit's settings Displaying the web screen Notice regarding the Web screen Displaying the web screen using a personal computer. Logging into the web screen Web setting screen Product information screen [PRODUCT INFO.] View system settings screen [PRODUCT INFO.] View system settings screen [SYSTEM MODE] Network settings screen [NETWORK] ROP account settings screen [ROP ACCOUNT SETTING] User management screen [USER MNG.]	
Network settings Software. Using EasyIP Setup Tool Plus to set the unit's settings Displaying the web screen Notice regarding the Web screen Displaying the web screen using a personal computer. Logging into the web screen Web setting screen Product information screen [PRODUCT INFO.] View system settings screen [PRODUCT INFO.] View system settings screen [SYSTEM MODE] Network settings screen [NETWORK] ROP account settings screen [ROP ACCOUNT SETTING] User management screen [USER MNG.]	97 97 97 99 99 99 99 102 102 103 112 112 139 140 141
Network settings Software. Using EasyIP Setup Tool Plus to set the unit's settings Displaying the web screen Notice regarding the Web screen Displaying the web screen using a personal computer. Logging into the web screen Web setting screen Product information screen [PRODUCT INFO.]. View system settings screen [PRODUCT INFO.]. View system settings screen [SYSTEM MODE] Network settings screen [NETWORK] ROP account settings screen [ROP ACCOUNT SETTING] User management screen [USER MNG.] Troubleshooting Operation. Web Screen	
Network settings Software. Using EasyIP Setup Tool Plus to set the unit's settings Displaying the web screen Notice regarding the Web screen Displaying the web screen using a personal computer. Logging into the web screen Web setting screen Product information screen [PRODUCT INFO.] View system settings screen [PRODUCT INFO.] View system settings screen [SYSTEM MODE] Network settings screen [NETWORK] ROP account settings screen [ROP ACCOUNT SETTING] User management screen [USER MNG.] User management screen [USER MNG.] Web Screen	
Network settings Software. Using EasyIP Setup Tool Plus to set the unit's settings Displaying the web screen Notice regarding the Web screen Displaying the web screen using a personal computer. Logging into the web screen Web setting screen Product information screen [PRODUCT INFO.]. View system settings screen [PRODUCT INFO.]. View system settings screen [SYSTEM MODE] Network settings screen [NETWORK] ROP account settings screen [ROP ACCOUNT SETTING] User management screen [USER MNG.] Troubleshooting Operation. Web Screen	
Network settings Software. Using EasyIP Setup Tool Plus to set the unit's settings Displaying the web screen Notice regarding the Web screen Displaying the web screen using a personal computer. Logging into the web screen Web setting screen Product information screen [PRODUCT INFO.] View system settings screen [PRODUCT INFO.] View system settings screen [SYSTEM MODE] Network settings screen [NETWORK] ROP account settings screen [ROP ACCOUNT SETTING] User management screen [USER MNG.] User management screen [USER MNG.] Web Screen Web Screen	97 97 97 99 99 99 99 102 102 103 105 112 112 139 140 141 143 144
Network settings Software. Using EasyIP Setup Tool Plus to set the unit's settings Displaying the web screen Notice regarding the Web screen Displaying the web screen using a personal computer. Logging into the web screen Web setting screen Product information screen [PRODUCT INFO.] View system settings screen [PRODUCT INFO.] View system settings screen [SYSTEM MODE] Network settings screen [NETWORK] ROP account settings screen [ROP ACCOUNT SETTING] User management screen [USER MNG.] User management screen [USER MNG.] Web Screen Reference Connector pin assignment table Front panel.	97 97 97 99 99 99 99
Network settings Software. Using EasyIP Setup Tool Plus to set the unit's settings Displaying the web screen Notice regarding the Web screen Displaying the web screen using a personal computer. Logging into the web screen Web setting screen Product information screen [PRODUCT INFO.] View system settings screen [PRODUCT INFO.] View system settings screen [SYSTEM MODE] Network settings screen [NETWORK] ROP account settings screen [ROP ACCOUNT SETTING] User management screen [USER MNG.]. Troubleshooting Operation Web Screen Reference Connector pin assignment table Front panel. Rear panel	97 97 99 99 99 102 102 102 103 105 112 139 140 141 141 143 144 144 144
Network settings Software Using EasyIP Setup Tool Plus to set the unit's settings Displaying the web screen Notice regarding the Web screen Displaying the web screen using a personal computer Logging into the web screen Web setting screen Product information screen [PRODUCT INFO.] View system settings screen [PRODUCT INFO.] View system settings screen [SYSTEM MODE] Network settings screen [NETWORK] ROP account settings screen [ROP ACCOUNT SETTING]. User management screen [USER MNG.] Troubleshooting Operation Web Screen Reference Connector pin assignment table Front panel Rear panel Front panel G/L indicator specifications	97 97 97 97
Network settings Software. Using EasyIP Setup Tool Plus to set the unit's settings Displaying the web screen Notice regarding the Web screen Displaying the web screen using a personal computer. Logging into the web screen Web setting screen Product information screen [PRODUCT INFO.] View system settings screen [PRODUCT INFO.] View system settings screen [SYSTEM MODE] Network settings screen [NETWORK] ROP account settings screen [ROP ACCOUNT SETTING] User management screen [USER MNG.]. Troubleshooting Operation Web Screen Connector pin assignment table Front panel Rear panel Front panel G/L indicator specifications.	97 97 97 99 99 99 102 102 102 103 105 112 139 140 141 141 143 144 144 144
Network settings Software Using EasyIP Setup Tool Plus to set the unit's settings Displaying the web screen Notice regarding the Web screen Displaying the web screen using a personal computer. Logging into the web screen Web setting screen Product information screen [PRODUCT INFO.]. View system settings screen [SYSTEM MODE] Network settings screen [NETWORK] ROP account settings screen [ROP ACCOUNT SETTING] User management screen [USER MNG.] Troubleshooting Operation Web Screen Reference Connector pin assignment table Front panel Rear panel Front panel G/L indicator specifications Appearance	97 97 97 99
Network settings Software Using EasyIP Setup Tool Plus to set the unit's settings Displaying the web screen Notice regarding the Web screen Displaying the web screen using a personal computer Logging into the web screen Web setting screen Product information screen [PRODUCT INFO.]. View system settings screen [SYSTEM MODE] Network settings screen [NETWORK] ROP account settings screen [ROP ACCOUNT SETTING] User management screen [USER MNG.] Web Screen Reference Connector pin assignment table Front panel Rear panel Front panel G/L indicator specifications Appearance	97 97 99 99 99 102 102 103 105 112 139 140 141 141 143 144 144 144 144 144 144 150 151

Introduction

How to View This Manual

About trademarks and registered trademarks

- Microsoft[®], Windows[®], Windows[®] 10, Windows[®] 11, Microsoft Edge, ActiveX[®] and DirectX[®] are either registered trademarks or trademarks of Microsoft Corporation in the United States and other countries.
- Apple, Mac, OS X, macOS and Safari are registered trademarks of Apple Inc., in the United States and other countries.
- Intel[®] and Intel[®] Core[™] are trademarks or registered trademarks of Intel Corporation and its subsidiaries in the United States and other countries.
- SDXC logo is a trademark of SD-3C and LLC.
- Dante® is a registered trademark of Audinate Pty Ltd.
- NDI® is a registered trademark of NewTek, Inc. in the United States and other countries.
- Other names of companies or products in this manual are either registered trademarks or trademarks of their respective owners.

About copyright

Distributing, copying, disassembling, reverse compiling, reverse engineering and also exporting in violation of export laws of the software provided with this unit are expressly prohibited.

Illustrations and screen displays featured in the manual

- What is shown in the manual's illustrations and screen displays may differ from how it actually appears.
- The screenshots are used in accordance with the guidelines of Microsoft Corporation.
- Functions which can be used by Windows only are indicated using [Windows].

Overview

This camera control unit (CCU) is designed to be used with the 4K studio camera (AK-UC4000; sold separately, AK-UC3300; sold separately, AK-PLV100; sold separately).

Connect it to the 4K studio camera (hereinafter referred to as the camera) with an optical fiber multi cable (sold separately).

Compatible with multiple formats and capable of simultaneous output of UHD/HD, HDR/SDR, BT.2020/BT.709, and high-speed/1x-speed.

Along with a number of camera outputs and return inputs, the unit is also equipped with independent TRUNK input and output.

The front panel is equipped with a color LCD touch control screen to improve operability and information accessibility.

There are dedicated ROP and MSU connectors to provide interfaces for both a remote operation panel and a master setup unit, and connection via LAN is also possible.

The following options are available to make operation over IP possible with this unit:

AK-NP701: SMPTE ST2110 functionality

- AK-NP702: Dante audio functionality
- AK-NP703: STREAM (High band NDI and SRT) functionality

Notice

Personal computer requirements

Use a host computer that satisfies the following conditions.

CPU	CPU Intel [®] Core™2 DUO 2.4 GHz or better is recommended	
Memory	Windows Microsoft® Windows® 10 Pro 32-bit: 1 GB or more Microsoft® Windows® 10 Pro 64-bit: 2 GB or more Microsoft® Windows® 11 Pro: 4 GB or more	
	Mac 2 GB or more	
Network function	100BASE-TX 1 port	
Image display function	Resolution: 1024×768 pixels or more Color generation: True Color 24-bit or better	
Supported operating systems and Web browser	 Windows Microsoft® Windows® 10 Pro 64-bit/32-bit Microsoft Edge Microsoft® Windows® 11 Pro Microsoft Edge Mac OS X 10.12 Sofari 10 	

Disclaimer of warranty

IN NO EVENT SHALL Panasonic Connect 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:

- ANY DAMAGE AND LOSS, INCLUDING WITHOUT LIMITATION, DIRECT OR INDIRECT, SPECIAL, CONSEQUENTIAL OR EXEMPLARY, ARISING OUT OF OR RELATING TO THE PRODUCT;
- PERSONAL INJURY OR ANY DAMAGE CAUSED BY INAPPROPRIATE USE OR NEGLIGENT OPERATION OF THE USER;
- UNAUTHORIZED DISASSEMBLE, REPAIR OR MODIFICATION OF THE PRODUCT BY THE USER;
- INCONVENIENCE OR ANY LOSS ARISING WHEN IMAGES ARE NOT DISPLAYED, DUE TO ANY REASON OR CAUSE
 INCLUDING ANY FAILURE OR PROBLEM OF THE PRODUCT;
- ANY PROBLEM, CONSEQUENTIAL INCONVENIENCE, OR LOSS OR DAMAGE, ARISING OUT OF THE SYSTEM COMBINED BY THE DEVICES OF THIRD PARTY;
- ANY INCONVENIENCE, DAMAGES OR LOSSES RESULTING FROM ACCIDENTS CAUSED BY AN INADEQUATE INSTALLATION METHOD OR ANY FACTORS OTHER THAN A DEFECT IN THE PRODUCT ITSELF;
- LOSS OF REGISTERED DATA CAUSED BY ANY FAILURE;
- ANY DAMAGE OR CLAIMS DUE TO LOSS OR LEAKAGE OF IMAGE DATA OR SETTING DATA SAVED ON THIS UNIT OR ON A MEMORY CARD OR PERSONAL COMPUTER.

Network security

This unit also has functions which are used when it is connected to a network.

Using the unit when it is connected to a network may possibly give rise to the following.

- Leakage or disclosure of information transmitted via this unit
- Unauthorized use of this unit by a third person with malicious intent
- Interference or stoppage of this unit by a third person with malicious intent

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

- Use this unit in a network secured by a firewall, etc.
- If this unit is used in a system with a personal computer connected, make sure that checks for and removal of computer viruses and malicious programs are implemented regularly.

Also observe the following points.

• Do not install the unit in a location where the unit, cables, and other parts may be easily damaged.

Memory cards

Memory cards used with the unit should conform to SD, SDHC or SDXC standards.

Be sure to use the unit to format memory cards.

Memory cards with the following capacity can be used with the unit.

SD:	2 GB
SDHC:	4 GB to 32 GB
SDXC:	64 GB

For the latest information not included in these Operating Instructions, refer to the support pages at the following website.

https://pro-av.panasonic.net/en/

Observe the following points when using and storing this unit.

- Avoid high temperature and humidity.
- Avoid water droplets.
- Avoid static electricity.

Accessories

• After removing the product from its container, dispose of the power cable cap (if supplied) and packing materials in an appropriate manner.



*1: The screws for the rack mount adapters come attached to the unit.

Precautions for Use

In addition to the safety precautions given in "Read this first!", also observe the following instructions.

Handle carefully

• Do not drop the product or subject it to a strong impact. Doing so may cause a failure or accident.

Avoid using the unit outdoors

Use the product in an ambient temperature of 0 °C to 40 °C (32 °F to 104 °F). Avoid using the product in a cold place where the temperature drops below 0 °C (32 °F) or in a hot place where the temperature rises above 40 °C (104 °F) because an extremely low or high temperature will adversely affect the internal parts.

Turn off the power before connecting or disconnecting cables

• Before connecting or disconnecting the cables, be sure to turn the power off.

Avoid humidity and dust

Avoid using the product in a very humid or dusty place because a lot of humidity and dust will cause damage to the internal parts.

Cleaning

- Turn the power off and wipe the product with a dry cloth.
- To remove stubborn dirt, dip a cloth into a diluted solution of kitchen detergent (neutral detergent), wring it out well, and wipe the product gently. Then, wipe the product with a cloth dampened with water. Finally, wipe the product with a dry cloth.

NOTE

- Avoid using benzine, paint thinners and other volatile fluids.
- If a chemical cleaning cloth is to be used, carefully read through the precautions for its use.

Optical fiber multi cable

• When the optical fiber connectors of the optical fiber multi cable (sold separately) become dirty, the optical signal transmission state will deteriorate. Use commercially available optical connector cleaner to clean the optical connector end faces in accordance with the instructions.

LAN cable

• Use a category 5e or better STP (Shielded Twisted Pair) LAN cable.

Consumable parts

• The cooling fan is a consumable part. The replacement cycle is approximately 10 years (when used approximately 8 hours per day).

Contact your dealer to request cooling fan replacement.

Disposal of the unit

• When the unit has reached the end of its service life and is to be disposed of, ask a qualified contractor to dispose of the unit properly in order to protect the environment.

Information on software used with this product

This product includes GNU General Public License (GPL) and GNU Lesser General Public License (LGPL) licensed software, and the customer is entitled to obtain, modify, or redistribute the source code for the software.

- This product includes MIT Licensed software.
- This product includes BSD Licensed software.
- For details on obtaining the source codes, visit the following website. https://pro-av.panasonic.net/en/
 However, do not contact Panasonic for questions regarding obtained source codes.

JPEG XS patent pool licensing

This product or service includes JPEG XS compliant features that are covered by patents in the United States and in other jurisdictions owned by intoPIX SA ("intoPIX") and/or Fraunhofer-Gesellschaft zur Foerderung der angewandten Forschung E.V. ("Fraunhofer") and listed at www.jpegxspool.com. Additional patents may be pending in United States and elsewhere.

Precautions for Installation

In addition to the safety precautions given in "Read this first!", also observe the following instructions.

Be sure to ask your dealer to perform the installation and connection work for the unit.

Connecting a power supply

- Be sure to use the power cable supplied with the unit.
- Connect the [SIGNAL GND] terminal on the rear of the unit to the system ground.
- When the unit will not be used for a long time, turn off the [POWER] switch and remove the power plug from the outlet to save power.

Ground of the power plug

- The power cable supplied with the unit has a 3-prong plug with a ground terminal.
- Connect it to a 3-prong outlet with a ground contact.

Grounding

• Ground the system via the [SIGNAL GND] terminal on the unit.



A. [SIGNAL GND] terminal

Handle carefully

- Dropping the unit or subjecting it to a strong impact or vibration may cause a failure or accident.
- Do not allow any foreign objects to enter inside the unit. Allowing water, metal items, food or drink, or other foreign objects to enter inside the unit may cause a fire or electric shock.

Installation location

- This unit is designed for indoor use only.
- Do not install the unit in a cold place where the temperature drops below 0 °C (32 °F) or in a hot place where the temperature rises above 40 °C (104 °F).
- Avoid installing the unit where it will be exposed to direct sunlight or near an outlet from which hot air is blown out.
- Installing the unit in a location with a lot of humidity, dust, or vibration may result in a failure.

Mounting the unit in a rack

Mounting the rack mount adapters

- 1. Remove the setting legs (A) secured to the unit. Remove them using a Phillips screwdriver.
- 2. Mount the supplied rack mount adapters (B).
- Mounting screws are not supplied. Use mounting screws removed from the unit using a Phillips screwdriver. Tighten the mounting screws for rack mount adapters using a torque of 110 N·m or more.



A. Setting legsB. Rack mount adapters

Mounting the unit in a rack

- Use the unit securely mounted in a standard 19-type rack (depth: 600 mm [23-5/8 inches] or more) compliant with EIA or JIS standards or equivalent.
- Securely fix the unit in place using screws that are appropriate for the rack.
- Be sure to attach a support guide for supporting (A) the rear of the unit. (Provide a support guide that is appropriate for the rack.)



A. Support gu

Mounting positions



NOTE

• Do not block the ventilation holes when installing the unit.

Parts and their functions

Front panel 1



Front panel 2



Rear panel 1



1	[LAN TRUNK] connector	LAN communication is carried using optical transmission between the camera and CCU.	
2	[LAN] connector	It is the LAN connector (RJ45) for connecting the ROP (AK-HRP1010 / AK-HRP1015) with an IP connection. Use a switch hub and connect the devices with a 10BASE-T/100BASE-TX straight cable. This connector is for connecting a personal computer when configuring Web settings.	
3	[UHD/HS/HD SDI OUT(1 to 4)] connectors	UHD (connects to the AK-UC4000 / AK-UC3300 / AK-PLV100), HS and 3G-HD, HD video signal output connectors (BNC). Signals output can be selected from the CCU menu. "OUTPUT FORMAT" (see page 54)	
4	[HD SDI OUT(5 to 7, 8/PM)] connectors	These connectors (BNC) are for outputting SDI signals in HDTV format. The 3G-HD/HD output mode can be selected by setting the CCU menu. SDI output from the [HD SDI OUT8/PM] connector can be switched to main line image output or picture monitor output via the CCU menu configurations or ROP control. * "OUTPUT FORMAT" (see page 54)	
5	[REF] connectors	These connectors (BNC) are for inputting reference signals. Black burst (BB) signals and tri-level sync signals can be input, and the type of signals input is recognized automatically. When no cable is connected to the loop-through output connector (B), the connector is automatically terminated at 75 Ω . Connecting a cable to this connector releases 75 Ω termination. When a cable is connected to the loop-through output connector (B), be sure to connect the other end of the cable to a connector. REF O $BA. Reference signal input connectorB. Loop-through output$	

- 18 -

Rear panel 2



1	[MSU] connector	This connector is for connecting an MSU (sold separately).	
2	[ROP] connector	This connector is for connecting a ROP (sold separately).	
3	[COMMUNICATION] connector	This connector is for connecting the intercom signals and tally signals to the external system.	
4	[PROMPTER IN] connector	This connector (BNC) is for inputting HD-SDI prompter signals.	
5	[HD TRUNK OUT] connector	This connector outputs the HD SDI TRUNK signal input to the camera.	
6	[RET1 IN] to [RET4 IN] connectors	These connectors (BNC) are for inputting SDI signals for return images in HDTV formats. 3G, HD-SDI signals are detected automatically.	
7	[AUX OUT] connector	It is possible to select the RET1 to RET4 inputs, ST2110 (RETURN) input, or STREAM input for output through this connector.	
8	[TALLY OUT] connector	This connector controls the tally output (R, G) and alarm output.	
9	[MIC1] and [MIC2] connectors	These connectors are for outputting the analog signals of microphones 1 and 2 of the camera. The microphone level is 0 dBm/600 Ω .	
10	[CAMERA] connector	This connector is for connecting the optical fiber multi cable (sold separately).	
11	Cooling fan	This is the unit's cooling fan.	
12	AC power socket	This socket is for inputting AC power. Connect the supplied power cable, and use a 3-prong outlet and ground the unit properly.	
13	[SIGNAL GND] terminal	Connect this to the system ground.	

Rear panel 3 (with AK-NP701/AK-NP702/AK-NP703 option)



	connectors	
3	[STREAM] connector	This is the LAN connector for NDI and SRT input/output.

1

Picture monitor (PM)

Picture monitor displays

Display the camera statuses, warnings, and other information on the picture monitor using the operation panel of the ROP.

Press the [CHARA] button (A) of the ROP to display the desired information.

The camera statuses, warnings, and other information are cleared when the [CHARA] button of the ROP is held down.



A. [CHARA] button

NOTE

• These can also be viewed on the LCD panel.

Transition of displays

When trouble is detected, warning information is automatically displayed on the picture monitor.

Even if status information or operation information is already displayed on the picture monitor when trouble is detected, priority is given to the display of the warning information.

The descending sequence of priority for the displays on the picture monitor is as follows: warning displays \rightarrow auto displays \rightarrow status displays \rightarrow ROP menu displays \rightarrow CCU menu displays \rightarrow operation displays \rightarrow no display.

When the warning information with the highest priority disappears, the warning information with the next highest priority appears.

Driority	Screen	ROP connected		
Priority		Yes	No	
High ↑	Warning displays	Warnings are automatically displayed when trouble is detected.	Warnings are automatically displayed when trouble is detected.	
.L		Self-recovery	Self-recovery	
Low		The warning displays are cleared	The warning displays are cleared	
		 Press the [CHARA] button of the ROP No display→(WARNING)→ IRIS →Status displays→ Status1 → Status2 → Status3 → Status4 → Status5 → Status6 → IRIS · · · Hold down the [CHARA] button of the ROP The warning displays are cleared 	 Touch a USER button of this unit (Enabled when [CHARA] is assigned to a USER button on the LCD panel.) When the transition source screen is displayed: The display switches to the transition source screen. When the transition source screen is not displayed: The warning displays are cleared 	
	Auto displays	Automatically displayed	Automatically displayed	
	Status displays	 Perform display operations using the [CHARA] button of the ROP. 	-	
		 Press the [CHARA] button of the ROP No display→(WARNING)→ IRIS →Status displays→ Status1 → Status2 → Status3 → Status4 → Status5 → Status6 → IRIS · · · 		
		 Hold down the [CHARA] button of the ROP 		
		The status displays end.		
	CCU menu displays	Display by pressing the [MENU] button on	Display by pressing the [MENU] button on	
	• When the camera menu is displayed from the ROP while a menu of the CCU (this unit) is displayed, the menu of the CCU (this unit) disappears.	 Operations using the [SELECT] dial on the unit 	 Operations using the [SELECT] dial on the unit 	
	Operation displays	Automatically displayed	Automatically displayed	
	No display	_	_	

Information display

This information is displayed on the picture monitor (PM).

Warning displays

The warning information is displayed when trouble is detected in the unit, camera, or optical fiber multi cable.



- Warning information displayed is cleared when the status returns to normal.
- To manually clear the warning information display, hold down the [CHARA] button of the ROP.

Information displayed

Display item	Description		
CAM RCV LVL NG	The level of the optical signal received by the camera is low		
CCU RCV LVL NG	The level of the optical signal received by the CCU is low		
CAM FAN NG	Trouble with the cooling fan of the camera		
CCU FAN NG	Trouble with the cooling fan of the CCU		
CAM HIGH TEMP	The temperature of the camera is abnormally high		
CCU HIGH TEMP	The temperature of the CCU is abnormally high If you continue operation even with the message displayed, power supply to the camera may stop as a protective measure.		
CABLE OPEN	The optical fiber multi cable is not connected		
CABLE SHORT	The optical fiber multi cable is shorted		
	 The power supply voltage to the unit dropped momentarily Power supply to the camera will stop as a protective measure. Turn the unit off immediately, and determine and resolve the problem before turning it back on. The camera is malfunctioning or startup of the camera failed for reasons other than the 		
	above.		
FORMAT NG	FORMAT of the CAM mode and the CCU mode does not match		
Saving Data. Do not turn off power until complete.	Saving the data from the ROP		
Loading Data. Do not turn off power until complete.	Loading the data from the ROP		
CAM WARM-UP	The camera is warming up		
TURN POWER OF (READ FACTORY)	The Factory settings of the camera are being read		
ST2110 DEV ERROR	A problem has occurred with the ST2110 option board (when AK-NP701 is attached)		
DANTE DEV ERROR	Some kind of problem has occurred with the Dante option board, the external Dante device, or the Dante network (when AK-NP702 is attached)		
NDI/SRT DEV ERROR	A problem has occurred with the Streaming option board (when AK-NP703 is attached)		

IRIS display

When the information is not displayed on the picture monitor, display it by pressing the [CHARA] button of the ROP.



- A. Camera number
- B. IRIS F value
- C. IRIS level
- D. TALLY INFO
 - Set each item to be displayed on the [PM VIEW SETTING] screen that can be accessed by selecting [MAINTENANCE] on the CCU menu. However, this screen will not appear if the menu's [IRIS LEVEL] setting is [OFF].
 - The IRIS schedule is displayed as follows depending on the setting of [IRIS SCALE] that can be accessed by selecting [MAINTENANCE] > [SETUP].

IRIS SCALE: FULL



IRIS SCALE: 2STOP

In the IRIS level display, the IRIS F value stored in IRIS memory is indicated at the center (+), and the current IRIS F value is displayed relative to the center as "*".

When the center value (+) and the current IRIS value (*) overlap, the display shows "> * <".



• When the IRIS level falls outside either end of the display range, the status is displayed as a flashing ">" or "<".



• TALLY INFO (D)

- Display the R tally in two segments of the upper row and the R, G, or YL tally in two segments of the lower row.
- When all R, G, and YL tally signals are ON, the upper row is red, and the left and right segments of the lower row are green and yellow, respectively.
- When the R and G tally signals are ON, the upper row is red and the lower row is green.

Status displays

From the IRIS display screen, press the [CHARA] button of the ROP to display the "status display screen".

However, when the "IRIS LEVEL" setting is "OFF", the screen will be displayed first if the [CHARA] button of the ROP is pressed when the information is not displayed on the picture monitor.

When the "status display screen" appears, pressing the [CHARA] button of the ROP again displays the status screen.

Pressing the [CHARA] button repeatedly switches display through the status screens in the sequence $1/6 \rightarrow 2/6 \rightarrow 3/6 \rightarrow 4/6 \rightarrow 5/6 \rightarrow 6/6 \rightarrow 1/6 \dots$

Status display screen



- A. Camera number
- B. System format
- C. Scene file number
- Not displayed when SCENE FILE is set to OFF. D. M.GAIN value/M.GAIN VAR value
- E. Shutter value
- F. CCU format information
- G. COLORIMETRY (Y/C conversion coefficient) information
- H. Extender information
- I. Lens information
- J. Zoom position
- K. Focus position
- L. Optical signal reception status (camera and CCU)
- M. ND/CC filter value

The CC filter value is not displayed when AK-UC3300 and AK-PLV100 are connected.

- N. Color temperature
- O. IRIS F value
- P. TALLY INFO
 - Set each item to be displayed on the [PM VIEW SETTING] screen that can be accessed by selecting [MAINTENANCE] on the CCU menu.
 - The camera format indicates the format of the signal output from the camera.
 - Pressing the [CHARA] button of the ROP from the status display screen displays the "status screen".
 - TALLY INFO (L)
 - Display the R tally in two segments of the upper row and the R, G, or YL tally in two segments of the lower row.
 - When all R, G, and YL tally signals are ON, the upper row is red, and the left and right segments of the lower row are green and yellow, respectively.
 - When the R and G tally signals are ON, the upper row is red and the lower row is green.

Status displays (page 1 of 17)

1/17 -Status1-	
HLG MODE	V Å R
SDR MODE	V Å R
HLG B.GAMMA	O N
HLG KNEE	O N
SDR CONV GAIN	0
SDR CONV POINT	0
SDR CONV SLOPE	0

Item	Display range	Remarks
HLG MODE	Setting values on camera	The HLG mode is displayed here.
SDR MODE	Setting values on camera	The SDR mode is displayed here.
HLG B.GAMMA	Setting values on camera	The status of black gamma when HLG is enabled is displayed here.
HLG KNEE	Setting values on camera	The status of knee when HLG is enabled is displayed here.
SDR CONV GAIN	Setting values on camera	The gain value when HDR video is converted to SDR video is displayed here.
SDR CONV POINT	Setting values on camera	The video level to start compression for SDR video is displayed here.
SDR CONV SLOPE	Setting values on camera	The slope to compress video signals is displayed here.

Status displays (page 2 of 17)

2/17 -Status2-	
CAM No.	1
CAM FAN MODE	NORMAL
BLACK SHADING	0 F F
WHITE SHADING	0 F F
FLARE	OFF
GAMMA	OFF
BLACK GAMMA	0 F F
KNEE	OFF
WHITE CLIP	0 F F
DRS SW	OFF
MATRIX	0 F F
SHUTTER	0 F F

Item	Display range	Remarks
CAM No.	1 to 99	The camera number is displayed here.
CAM FAN MODE	Setting values on camera	Indicates the operational mode of the camera fan.
BLACK SHADING	Setting values on camera	The status of the black shading is displayed here.
WHITE SHADING	Setting values on camera	The status of the white shading is displayed here.
FLARE	Setting values on camera	The status of the FLARE is displayed here.
GAMMA	Setting values on camera	The status of the gamma correction is displayed here.
BLACK GAMMA	Setting values on camera	The status of the black gamma is displayed here.
		• This function changes the amplification rate of the video signals in the low-brightness areas.
KNEE	Setting values on camera	The status of the knee function is displayed here.
		• This function attenuates that part of the video signal that exceeds the prescribed level (knee point) to minimize saturation.
WHITE CLIP	Setting values on camera	The status of the white clip function is displayed here.
DRS SW	Setting values on camera	The status of the DRS SW is displayed here.
MATRIX	Setting values on camera	The status of the matrix function is displayed here.
		This function compensates the saturation and hue.
SHUTTER	Setting values on camera	The speed of the electronic shutter is displayed here.
		• For the setting values, refer to the Operating Instructions for the camera.

Status displays (page 3 of 17)

3/17 -Status3-	
GAMMA MODE	HD
M.GAIN	36dB
M.GAIN VAR	-2.9dB
UHD DETAIL	0 F F
UHD SKIN TONE DETAIL	0 F F
HD DETAIL	0 F F
HD SKIN TONE DETAIL	0 F F
ND FILTER	****
CC FILTER	****
LENS EXTENDER	1.0
AUTO IRIS	0 F F
SCENE FILE	1

Item	Display range	Remarks
GAMMA MODE	Setting values on camera	The selected gamma type is displayed here.
M.GAIN	Setting values on camera	The gain increase value is displayed here.
M.GAIN VAR	Setting values on camera	The gain offset value is displayed here.
UHD DETAIL	Setting values on camera	The status of the UHD DETAIL is displayed here.
UHD SKIN TONE DETAIL	Setting values on camera	Indicates the status of the SKIN TONE DETAIL function.
		This function minimizes the detail components applied to skin tone.
HD DETAIL	Setting values on camera	The status of the HD DETAIL is displayed here.
HD SKIN TONE DETAIL	Setting values on camera	Indicates the status of the SKIN TONE DETAIL function.
		This function minimizes the detail components applied to skin tone.
ND FILTER	Setting values on camera	The names of the ND filters are displayed here.
		• Indicates the names (4 letters each) corresponding to ND filters 1 to 5.
		• The names configured in the CCU screen appear.
		 This will be ND filters 1 to 4 when AK-UC3300 and AK-PLV100 are connected.
CC FILTER	Setting values on camera	The names of the CC filters are displayed here.
		• Indicates the names (5 letters each) corresponding to CC filters A to E.
		 The names configured in the CCU screen appear.
		• This is not displayed when AK-UC3300 and AK-PLV100 are connected.
LENS EXTENDER	1.0	The magnification of the lens extender is displayed here.
	2.0	
AUTO IRIS	OFF ON	The status of the auto IRIS function is displayed here.
SCENE FILE	OFF	The selected scene file is displayed here.
	 1 to 9	
	1 10 0	

Status displays (page 4 of 17)

4/17 -Status4-	
ÁSU REF	FACTORY
ÁSU MODE	OUT FULL
RETURN1	RET1
RETURN2	RET2
RETURN3	RET3
RETURN4	RET4

Item	Display range	Remarks
ASU REF	FACTORY USER1 USER2 USER3 REF1 REF2 REF3	The reference file used during auto setup is displayed here.This is not displayed when AK-PLV100 is connected.
ASU MODE	OUT FULL OUT EASY	The auto setup mode is displayed here.This is not displayed when AK-PLV100 is connected.
RETURN1	RET1	The statuses of the input format allocations for SDI return signals 1 to 4 are
RETURN2	RET2	displayed here.
RETURN3	RET4	
RETURN4		

Status displays (page 5 of 17)

5/17 -Status5-	
SDI OUTPUT1-4	12G
SDI OUTPUT5-6	HD
HDR SELECT	SDR
SDI OUTPUT7	HD
HDR SELECT	SDR
SDI OUTPUT8	HD
HDR SELECT	SDR

Item	Display range	Remarks
SDI OUTPUT1-4	12G 3Gx4(2SI) 6G 3G(Level A) HD TrueP PsF Over3G	Output formats of SDI OUT1 through SDI OUT4 are displayed here.
SDI OUTPUT5-6	3G(Level A) HD TrueP PsF Over3G	Output formats of SDI OUT5 through SDI OUT6 are displayed here.
HDR SELECT	SDR HDR	Displays HDR or SDR according to the FORMAT of SDI OUT5 to SDI OUT6.
SDI OUTPUT7	3G(Level A) HD TrueP PsF Over3G	Output format of SDI OUT7 is displayed here.
HDR SELECT	SDR HDR	Displays HDR or SDR according to the FORMAT of SDI OUT7.
SDI OUTPUT8	HD TrueP PsF Over1.5G	Output format of SDI OUT8 is displayed here.
HDR SELECT	SDR HDR	Displays HDR or SDR according to the FORMAT of SDI OUT8.

Status displays (page 6 of 17)

```
6/17 -Status6-
BUTTON ASSIGN
USER1 CHARA
USER2 MENU/USER1 LOCK
HOURS CCU *****H
CABLE OPEN
CABLE SHORT
CAM RECEIVE LEVEL
CCU RECEIVE LEVEL
VERSION XX.XX-XXX-XX.XX
```

Item	Display range	Remarks
BUTTON ASSIGN USER1	NONE CHARA BARS CLEAN	Displays the functionality assigned to the USER1 button on the LCD panel.
BUTTON ASSIGN USER2	NONE CHARA MENU/USER1 LOCK BARS CLEAN	Displays the functionality assigned to the USER2 button on the LCD panel.
HOURS CCU	****H	Cumulative CCU operating time is displayed here.
CABLE OPEN	(Off)	This item flashes when the optical fiber multi cable is not connected.
CABLE SHORT	(Off)	This item flashes when the optical fiber multi cable is short-circuited.
CAM RECEIVE LEVEL		The level of the optical signals received by the camera is displayed in 5 gradations.
CCU RECEIVE LEVEL		The level of the optical signals received by the unit is displayed in 5 gradations.
VERSION		The unit's software version is displayed here.

Status displays (page 7 of 17)

- When AK-NP701 (ST2110 option) is not attached.
- When [MAINTENANCE] > [SETUP] > [PM STATUS DISP MODE]: NORMAL is set.

7/17 -Status7	-
SFP1 INFORMATI	ON
TRANSCEIVER	XXXXXXXXXXXXX
VENDOR NAME	****
VENDOR PN	XXXXXXXXXXXXXXXXXX
VENDOR REV	XXXX
VENDOR SN	*****
DATE CODE	XXXXXXXX
TX POWER	XXXXXXXXXXX
RX POWER	XXXXXXXXXXX
TEMPERATURE	XXXX
RX POWER TEMPERATURE	XXXXXXXXXXX XXXX

Item	Display range	Remarks	
SFP1 INFORMATION		The following details are displayed as the SFP1 optical module information.	
TRANSCEIVER	Display only	Displays the transceiver standard of the optical module.	
VENDOR NAME	Display only	Displays the vendor information of the optical module.	
VENDOR PN	Display only	Displays the part number code of the optical module.	
VENDOR REV	Display only	Displays the revision code of the optical module.	
VENDOR SN	Display only	Displays the serial number of the optical module.	
DATE CODE	Display only	Displays the date code of the optical module.	
TX POWER	Display only	Displays the light intensity output by the optical module.	
RX POWER	Display only	Displays the light intensity received by the optical module.	
TEMPERATURE	Display only	Displays the internal temperature of the optical module.	

Status displays (page 8 of 17)

In the following cases, the status is not displayed.

- When AK-NP701 (ST2110 option) is not attached.
- When [MAINTENANCE] > [SETUP] > [PM STATUS DISP MODE]: NORMAL is set.

8/17 -Status	8-
SFP2 INFORMAT	ION
TRANSCEIVER	XXXXXXXXXXXXX
VENDOR NAME	*****
VENDOR PN	*****
VENDOR REV	XXXX
VENDOR SN	*****
DATE CODE	XXXXXXXX
TX POWER	XXXXXXXXXXX
RX POWER	XXXXXXXXXXX
TEMPERATURE	XXXX

Item	Display range	Remarks	
SFP2 INFORMATION		The following details are displayed as the SFP2 optical module information.	
TRANSCEIVER	Display only	Displays the transceiver standard of the optical module.	
VENDOR NAME	Display only	Displays the vendor information of the optical module.	
VENDOR PN	Display only	Displays the part number code of the optical module.	
VENDOR REV	Display only	Displays the revision code of the optical module.	
VENDOR SN	Display only	Displays the serial number of the optical module.	
DATE CODE	Display only	Displays the date code of the optical module.	
TX POWER	Display only	Displays the light intensity output by the optical module.	
RX POWER	Display only	Displays the light intensity received by the optical module.	
TEMPERATURE	Display only	Displays the internal temperature of the optical module.	

Status displays (page 9 of 17)

- When AK-NP701 (ST2110 option) is not attached.
- When [MAINTENANCE] > [SETUP] > [PM STATUS DISP MODE]: NORMAL is set.

```
9/17 -Status9-

SFP TX STATUS

MAIN VIDEO FORMAT

1080/59.94p

MONITOR VIDEO FORMAT

1080/591

HD TRANK VIDEO FORMAT

1080/591

HD TRANK AUDIO ENABLE

HD TRANK AUDIO FORMAT

PCM(48Khz/24bit)
```

Item	Remarks
SFP TX STATUS	
MAIN VIDEO FORMAT	Displays the MAIN VIDEO FORMAT information.
MONITOR VIDEO FORMAT	Displays the MONITOR VIDEO FORMAT information.
HD TRANK VIDEO FORMAT	Displays the HD TRANK VIDEO FORMAT information.
HD TRANK AUDIO	Displays the HD TRANK AUDIO information.
HD TRANK AUDIO FORMAT	Displays the HD TRANK AUDIO FORMAT information.

Status displays (page 10 of 17)

In the following cases, the status is not displayed.

- When AK-NP701 (ST2110 option) is not attached.
- When [MAINTENANCE] > [SETUP] > [PM STATUS DISP MODE]: NORMAL is set.

10/17 -Status	10-	
SFP1 RX STATUS		
RET1 SAMPLING	RATE	XXXXXXXX
WIDTH		XXXX
HEIGHT		XXXX
RET2 SAMPLING	RATE	XXXXXXXX
WIDTH		XXXX
HEIGHT		XXXX
RET3 SAMPLING	RATE	XXXXXXXX
WIDTH		XXXX
HEIGHT		XXXX
RET4 SAMPLING	RATE	XXXXXXXX
WIDTH		XXXX
HEIGHT		XXXX

	Item	Remarks
SFP1 RX STATUS		
RET1	SAMPLING RATE	Displays the sampling rate for the received data.
	WIDTH	Displays the resolution in the horizontal direction of the received data.
	HEIGHT	Displays the resolution in the vertical direction of the received data.
RET2	SAMPLING RATE	Displays the sampling rate for the received data.
	WIDTH	Displays the resolution in the horizontal direction of the received data.
	HEIGHT	Displays the resolution in the vertical direction of the received data.
RET3	SAMPLING RATE	Displays the sampling rate for the received data.
	WIDTH	Displays the resolution in the horizontal direction of the received data.
	HEIGHT	Displays the resolution in the vertical direction of the received data.
RET4	SAMPLING RATE	Displays the sampling rate for the received data.
	WIDTH	Displays the resolution in the horizontal direction of the received data.
	HEIGHT	Displays the resolution in the vertical direction of the received data.

Status displays (page 11 of 17)

- When AK-NP701 (ST2110 option) is not attached.
- When [MAINTENANCE] > [SETUP] > [PM STATUS DISP MODE]: NORMAL is set.

11/17 -Status11-	Ì
SFP1 RX STATUS HD PROMPTER	
SAMPLING RATE	XXXXXXXX
WIDTH	XXXX
HEIGHT	XXXX
HD PROMPTER AUDIO	
SAMPLING RATE	XXXXXXXX
PAYLOAD TYPE	XX

Iter	n	Remarks
SFP1 RX STATUS		
HD PROMPTER	SAMPLING RATE	Displays the sampling rate for the received data.
	WIDTH	Displays the resolution in the horizontal direction of the received data.
	HEIGHT	Displays the resolution in the vertical direction of the received data.
HD PROMPTER AUDIO	SAMPLING RATE	Displays the sampling rate for the received data.
	PAYLOAD TYPE	Displays the payload type of the received data.

Status displays (page 12 of 17)

In the following cases, the status is not displayed.

- When AK-NP701 (ST2110 option) is not attached.
- When [MAINTENANCE] > [SETUP] > [PM STATUS DISP MODE]: NORMAL is set.

12/17 -Status12-	
SFP1 RX STATUS	
PGMI	
SAMPLING RATE	XXXXXXXX
PAYLOAD TYPE	XX
PGM2	
SAMPLING RATE	XXXXXXXX
PAYLOAD TYPE	XX
INCOM1	
SAMPLING RATE	XXXXXXXX
PAYLOAD TYPE	XX
INCOM2	
SAMPLING RATE	XXXXXXXX
PAYLOAD TYPE	XX

lt	em	Remarks
SFP1 RX STATUS		
PGM1	SAMPLING RATE	Displays the sampling rate for the received data.
	PAYLOAD TYPE	Displays the payload type of the received data.
PGM2	SAMPLING RATE	Displays the sampling rate for the received data.
	PAYLOAD TYPE	Displays the payload type of the received data.
INCOM1	SAMPLING RATE	Displays the sampling rate for the received data.
	PAYLOAD TYPE	Displays the payload type of the received data.
INCOM2	SAMPLING RATE	Displays the sampling rate for the received data.
	PAYLOAD TYPE	Displays the payload type of the received data.

Status displays (page 13 of 17)

- When AK-NP701 (ST2110 option) is not attached.
- When [MAINTENANCE] > [SETUP] > [PM STATUS DISP MODE]: NORMAL is set.

13/17 -Status13-	
SFP1 RX STATUS RET1 JPEG XS RET2 JPEG XS RET3 JPEG XS RET4 JPEG XS	Undetected Undetected Undetected Undetected

Item	Remarks
SFP1 RX STATUS	
RET1 JPEG XS	The reception status of Detect/Undetected is displayed. The status of JPEG XS set to RETURN select is Detect.
RET2 JPEG XS	The reception status of Detect/Undetected is displayed. The status of JPEG XS set to RETURN select is Detect.
RET3 JPEG XS	The reception status of Detect/Undetected is displayed. The status of JPEG XS set to RETURN select is Detect.
RET4 JPEG XS	The reception status of Detect/Undetected is displayed. The status of JPEG XS set to RETURN select is Detect.

Status displays (page 14 of 17)

In the following cases, the status is not displayed.

- When AK-NP701 (ST2110 option) is not attached.
- When [MAINTENANCE] > [SETUP] > [PM STATUS DISP MODE]: NORMAL is set.

14/17	-Status]	L 4 -	
SFP2	RX STATUS		
RET1	SAMPLING	RATE	XXXXXXXX
	WIDTH		XXXX
	HEIGHT		XXXX
RET2	SAMPLING	RATE	XXXXXXXX
	WIDTH		XXXX
	HEIGHT		XXXX
RET3	SAMPLING	RATE	XXXXXXXX
	WIDTH		XXXX
	HEIGHT		XXXX
RET4	SAMPLING	RATE	XXXXXXXX
	WIDTH		XXXX
	HEIGHT		XXXX

Item		Remarks	
SFP2 RX STATUS			
RET1	SAMPLING RATE	Displays the sampling rate for the received data.	
	WIDTH	Displays the resolution in the horizontal direction of the received data.	
	HEIGHT	Displays the resolution in the vertical direction of the received data.	
RET2	SAMPLING RATE	Displays the sampling rate for the received data.	
	WIDTH	Displays the resolution in the horizontal direction of the received data.	
	HEIGHT	Displays the resolution in the vertical direction of the received data.	
RET3	SAMPLING RATE	Displays the sampling rate for the received data.	
	WIDTH	Displays the resolution in the horizontal direction of the received data.	
	HEIGHT	Displays the resolution in the vertical direction of the received data.	
RET4	SAMPLING RATE	Displays the sampling rate for the received data.	
	WIDTH	Displays the resolution in the horizontal direction of the received data.	
	HEIGHT	Displays the resolution in the vertical direction of the received data.	

Status displays (page 15 of 17)

- When AK-NP701 (ST2110 option) is not attached.
- When [MAINTENANCE] > [SETUP] > [PM STATUS DISP MODE]: NORMAL is set.

15/17 -Status15-	Ì
SFP2 RX STATUS HD PROMPTER	
SAMPLING RATE	XXXXXXXX
WIDTH	XXXX
HEIGHT	XXXX
HD PROMPTER AUDIO	
SAMPLING RATE	XXXXXXXX
PAYLOAD TYPE	XX
SAMPLING RATE WIDTH HEIGHT HD PROMPTER AUDIO SAMPLING RATE PAYLOAD TYPE	XXXXXXXX XXXX XXXX XXXXXXXXX XXXXXXXXX

Item		Remarks	
SFP2 RX STATUS			
HD PROMPTER	SAMPLING RATE	Displays the sampling rate for the received data.	
	WIDTH	Displays the resolution in the horizontal direction of the received data.	
	HEIGHT	Displays the resolution in the vertical direction of the received data.	
HD PROMPTER AUDIO	SAMPLING RATE	Displays the sampling rate for the received data.	
	PAYLOAD TYPE	Displays the payload type of the received data.	

Status displays (page 16 of 17)

In the following cases, the status is not displayed.

- When AK-NP701 (ST2110 option) is not attached.
- When [MAINTENANCE] > [SETUP] > [PM STATUS DISP MODE]: NORMAL is set.

16/17 -Status16-	
SFP2 RX STATUS	
PGMI	
SAMPLING RATE	XXXXXXXX
PAYLOAD TYPE	XX
PGM2	
SAMPLING RATE	XXXXXXXX
PAYLOAD TYPE	XX
INCOM1	
SAMPLING RATE	XXXXXXXX
PAYLOAD TYPE	XX
INCOM2	
SAMPLING RATE	XXXXXXXX
PAYLOAD TYPE	XX

Item		Remarks
SFP2 RX STATUS		
PGM1	SAMPLING RATE	Displays the sampling rate for the received data.
	PAYLOAD TYPE	Displays the payload type of the received data.
PGM2	SAMPLING RATE	Displays the sampling rate for the received data.
	PAYLOAD TYPE	Displays the payload type of the received data.
INCOM1	SAMPLING RATE	Displays the sampling rate for the received data.
	PAYLOAD TYPE	Displays the payload type of the received data.
INCOM2	SAMPLING RATE	Displays the sampling rate for the received data.
	PAYLOAD TYPE	Displays the payload type of the received data.

Status displays (page 17 of 17)

- When AK-NP701 (ST2110 option) is not attached.
- When [MAINTENANCE] > [SETUP] > [PM STATUS DISP MODE]: NORMAL is set.

17/17 -Status17-	
SFP2 RX STATUS RET1 JPEG XS RET2 JPEG XS RET3 JPEG XS RET4 JPEG XS	Undetected Undetected Undetected Undetected

Item	Remarks
SFP1 RX STATUS	
RET1 JPEG XS	The reception status of Detect/Undetected is displayed. The status of JPEG XS set to RETURN select is Detect.
RET2 JPEG XS	The reception status of Detect/Undetected is displayed. The status of JPEG XS set to RETURN select is Detect.
RET3 JPEG XS	The reception status of Detect/Undetected is displayed. The status of JPEG XS set to RETURN select is Detect.
RET4 JPEG XS	The reception status of Detect/Undetected is displayed. The status of JPEG XS set to RETURN select is Detect.
Operation displays

The operation displays appear at the bottom of the screen for approx. 4 seconds when any of the following operations have been performed with the operation panel of the ROP.

- Master gain change
- Electronic shutter change
- Lens extender change
- Scene file change
- REF LOAD is changed
- FILTER is changed

The display time can be changed from [MAINTENANCE] menu > [PM OPERATION STATUS] > [STATUS DISPLAY TIME].



Item	Display range	Remarks
MASTER GAIN	Setting values on	The master gain value is displayed here.
	camera	• For the setting values, refer to the Operating Instructions for the camera.
SHUTTER	Setting values on	The speed of the electronic shutter is displayed here.
	camera	• For the setting values, refer to the Operating Instructions for the camera.
LENS EXT	1.0	The magnification of the lens extender is displayed here.
	2.0	• When the magnification of the lens extender is set to 2x, [2.0] is displayed. Otherwise, [1.0] is displayed.
SCENE FILE	OFF 1 to 8	This indicates the scene file name.
REF LOAD	FACTORY USER1 to USER3 REF1 to 3	This indicates the reference file that was loaded via reference call recalling.
FILTER	**** (ND/CC filter name)	The names of the ND filter/CC filters are displayed here.

MASTER GAIN 12dB

Auto displays

When the following operation is performed while no menu is displayed on the picture monitor, information on the operation performed appears at the bottom of the screen.

- AWB (Auto White Balance) function
- ABB (Auto Black Balance) function
- AUTO SETUP (Auto Setup) function
- The AUTO SETUP function does not work when AK-PLV100 is connected.

When the AUTO SETUP operations are displayed, they will remain displayed until the operations are completed.

The display is cleared 4 seconds after the operations are completed.

If the operations cannot be completed, they will remain displayed until the NG (error) items of the AUTO function are released. The display time can be changed from [MAINTENANCE] menu > [PM OPERATION STATUS] > [STATUS DISPLAY TIME].



Item	Display description
AWB	AWB : OK
	AWB : ACTIVE
	AWB : G/B/R NG
	AWB : LOW/HIGH LIGHT NG
	AWB : BREAK
ABB	ABB : OK
	ABB : ACTIVE
	ABB : G/B/R NG
	ABB : LENS OPEN
	ABB : BREAK
AUTO SETUP	AUTO SETUP : OK (Details on the operation are displayed at the bottom.)
	AUTO SETUP : NG (Details on the NG information are displayed at the bottom.)
	AUTO SETUP : BREAK

• AUTO SETUP operation details

Display description
B.SHD OPERATION
W.SHD OPERATION
GAMMA OPERATION
FLARE OPERATION
AWB OPERATION
ABB OPERATION
NOT RUNNING ILLEGAL MODE

LCD panel

Display switching of the LCD panel

Switch the display on the LCD panel using the following procedure:

- 1. Touch the [PM] button on the LCD display screen or hold down the [MENU] button.
 - Images output from the SDI output of the [HD SDI OUT(8/PM)] connector are displayed on the LCD panel.
- 2. Press the [MENU] button. The CCU menu is displayed on the LCD panel.
- 3. Touch and hold the LCD panel or hold down the [MENU] button.



NOTE

• Turn the [SELECT] dial while the LCD display screen is displayed to change pages.

Buttons on the LCD panel

Functions are made available by operating the buttons on the LCD panel.

Camera screen



[>]	Touch the button to move to the next page.
[<]	 Touch the button to move back to the previous page. The screens change in the order Camera screen ↔ [INTERCOM] screen ↔ [INFORMATION] screen ↔ [NETWORK] screen ↔ Camera screen ↔
	You can turn the power of the camera on/off by continuing to touch this button.
CALL	Calls the camera side and ROP side. It flashes red when a call is made.
РМ	 SDI output images output from the [HD SDI OUT(8/PM)] connector are displayed on the LCD panel. A message is displayed when you touch the button. Touch [OK]. Touch and hold the screen while the SDI output images from the [HD SDI OUT(8/PM)] connector are displayed to return to the LCD display screen.
[BARS] (USER1)	Touch the button to execute the functionality set in USER1. This can be set in the CCU menu. The button display changes depending on the settings.
[CHARA] (USER2)	Touch the button to execute the functionality set in USER2. This can be set in the CCU menu. The button display changes depending on the settings.
[OPTICAL LEVEL] indicators	 [CAM] indicator Indicates the reception strength on the camera side. [CCU] indicator Indicates the reception strength on the CCU side.
[STATUS] indicators	 [G/L] indicator Lights when the external sync signal is synchronized. [PTP] indicator Lights when PTP-synchronized.
	• [ALARM] indicator Lights when the unit malfunctions.
[CABLE] indicator	Lights to indicate the cable connection status.Lights green when this unit and the camera are properly connected using an optical fiber multi cable.

[INTERCOM] screen



[PGM1]/[OFF]/[PGM2]	This switch mixes audio for the intercom. Touch the button to change the setting. [PGM1]: The sound of PGM1 is mixed with the intercom sound. [OFF]: The sound of PGM is not mixed with the intercom sound. [PGM2]: The sound of PGM2 is mixed with the intercom sound.
[PRV]/[SYSTEM]	This switch is for selecting the party to call using the intercom. Touch the button to change the setting. [PRV]: For making private calls between the unit and camera side. [SYSTEM]: For calling the intercom on the system side and camera side.
[PROD]/[BOTH]/[ENG]	This switch selects the party to which to speak via the intercom. Touch the button to change the setting.
[MIC ON]/ [MIC OFF]	This switch switches the intercom microphone ON/OFF. Touch the button to change.
[PTT]	The intercom microphone is ON only while you are touching the button.

[INFORMATION] screen

Displays error information, etc.



[NETWORK] screen

You can change a variety of network settings. ([IPv4 ADDRESS]/[SUBNET MASK]/[ROP ACCOUNT]/[DEFAULT GATEWAY]/[PORT])

• Touch the 🗾 button next to each item to switch to a screen for entering characters. After entering, touch the [SAVE] button to complete the entry.

Touch the [SET] button to complete the settings.

• Touch the [ROP ACCOUNT] 🗾 button to switch to the [ACCOUNT SETTING] screen.



[ACCOUNT SETTING] screen

Enter the account settings items. ([OLD ID]/[OLD PASSWORD]/[NEW ID]/[NEW PASSWORD]/[PASSWORD RETYPE])

- The entered settings are updated when you touch [SAVE] and it returns to the [NETWORK] screen.
- The entered settings are left unchanged when you touch [CANCEL] and it returns to the [NETWORK] screen.

ACCOUNT SETTING					
OLD ID			NEW ID		
UserA			UserA	ľ	
OLD PASSWORD			NEW PASSWORD		
******			****	ľ	
			PASSWORD RETYPE		
CANCEL	SAVE		******	ľ	

ID entry

- If not registered, the item name is displayed in red.
- Enter up to 8 alphanumeric characters.

Password entry

- If not registered, the item name is displayed in red.
- Enter 8 or more characters (a maximum of 16 characters).
 Set a combination of the three types, alphabetical characters, numerical characters, and symbol characters. You cannot use the same character string as the ID.
- The available characters are as follows:

Alphabetical characters	ABCDEFGHIJKLMNOPQRSTUVWXYZ
(upper and lower cases)	abcdefghijklmnopqrstuvwxyz
Numeric characters	0123456789
Symbols	~!@#\$%^&*()_+\ {}[]<>.,/?'

About entering characters

Buttons other than the ones for characters act as described below.

Number input screen

IP ADD	DRESS			
1	2	3	<	>
4	5	6		BS
7	8	9		
•	0		CANCEL	SAVE

[<]/[>]	Switches the item to be set.
[BS]	Deletes one character.

Letter input screen

			Α	lphab	et inp	ut so	reen			
ID										
q	w		e	r	t	у	u	i	0	р
a		s	d	f	g	h	j	k		
A-a	z	2	x	С	v	b	n	m	· 4'	BS
12 !\$	23 &	L	-	<	>		CANC	EL	SA	VE

Number/symbol input screen 1



Number/symbol input screen 2



[BS]	Deletes one character.
	Enter a space.
[<]	Moves the cursor back one character.
[>]	Moves the cursor forward one character.
[A-a]	Switches between upper-case and lower-case.
123 !\$&	Switches between the alphabet input screen and the number/symbol input screen 1.
[/?_]	Switches between the number/symbol input screen 1 and the number/symbol input screen 2.

CCU menu

Menu operations

Display the CCU menu on the picture monitor and on the LCD panel of the unit, then operate using the [MENU] button and [SELECT] dial on the front panel.



- A. [MENU] button
- B. [SELECT] dial
- C. LCD panel

NOTE

If the LCD panel display is showing the LCD display screen, change to the CCU menu display.
 "Display switching of the LCD panel" (see page 39)

Displaying and hiding the menus

Menus are displayed or hidden by the following procedure.

1. Press the [MENU] button.

The [MENU] button lights white and the CCU menu is displayed on the picture monitor and the LCD panel. When you press the [MENU] button again, the menu display ends and the [MENU] button turns off.



Basic menu operations

Menu items are selected and set by the following procedure.

1. Turn the [SELECT] dial while in the [CCU MENU], select [OPERATION] or [MAINTENANCE], and then press the [SELECT] dial.

A list of menu items included in the selected item ([OPERATION] or [MAINTENANCE]) is displayed.

• When the [SELECT] dial is turned clockwise, the cursor moves down; conversely, when it is turned counterclockwise, the cursor moves up.



2. Turn the [SELECT] dial to move the cursor to the menu item you want to set, and then press the [SELECT] dial.



The setting screen one level below the selected menu item appears.



• Moving the cursor to the menu title and then pressing the [SELECT] dial redisplays [CCU MENU].



3. Turn the [SELECT] dial to move the cursor to the menu item you want to set, and then press the [SELECT] dial.

The setting value of the selected menu item starts flashing and you can change it.



4. Turn the [SELECT] dial to change the value, and then press the [SELECT] dial. Turning the [SELECT] dial changes the setting value and pressing the [SELECT] dial confirms the setting value.



When the setting value is confirmed and the flashing stops, you can move the cursor.

With some menu items, setting changes become effective while the setting value is in the flashing state; with others, changes become effective when the [SELECT] dial is pressed to confirm the setting value.

Operation with menu items that have multiple setting items on one line

1. Turn the [SELECT] dial to move the cursor to the menu item you want to set, and then press the [SELECT] dial.

The cursor becomes "J" and you can use the [SELECT] dial to move the cursor to a setting item in the selected menu item.



2. Turn the [SELECT] dial to move the cursor to the item you want to set, and then press the [SELECT] dial.

The setting value of the selected item starts flashing and you can change it.



3. Turn the [SELECT] dial to change the value, and then press the [SELECT] dial.

Turning the [SELECT] dial changes the setting value and pressing the [SELECT] dial confirms the setting value.





When the setting value is confirmed and the flashing stops, you can move the cursor.

If you press the [SELECT] dial while the cursor is on the left of a menu item, the cursor becomes "---" and you can select the menu item.

*** BAR ID ***		٦
BAR ID SWITCH BRIGHTNESS →D1 POSITION	0FF 100% V:00 H:05	
ID1	0000	
ID2 POSITION	V:00 H:00	
ID2 OFFSET	2222 V:000 H:000	



Text input

1. Turn the [SELECT] dial to move the cursor to the menu item where text is to be input, and then press the [SELECT] dial.

The cursor display changes as indicated by "↓". By turning the [SELECT] dial, you can move the cursor to the next (previous) character position.



2. Turn the [SELECT] dial to move the cursor to position where a character is to be input, and then press the [SELECT] dial.

The selected character starts flashing and you can change it.



SELECT

3. Turn the [SELECT] dial to change the character, and then press the [SELECT] dial. Turning the [SELECT] dial changes characters, and pressing the [SELECT] dial confirms character changes.



When a character has been input and the flashing stops, you can move the cursor.

If you press the [SELECT] dial while the cursor is on the left of a menu item, the cursor becomes "---" and you can select the menu item.



NOTE

• Turning the [SELECT] dial clockwise while pressing it increases the speed at which the number increases (turning it counterclockwise decreases the number). Turning the dial more increases the speed even more. This operation is effective for making a large change to a value when the setting width is large (e.g., IP address or port number).

CCU MENU

This is the first screen displayed when you press the [MENU] button.

Select one of the menus.

```
→* CCU MENU *
OPERATION
AUDIO
NETWORK
MAINTENANCE
```

Item	Content	Details page	
OPERATION	Open the OPERATION menu screen.	"OPERATION" (see page 51)	
AUDIO Open the AUDIO menu screen.		➡ "AUDIO" (see page 60)	
NETWORK Open the NETWORK menu screen.		➡ "NETWORK" (see page 66)	
MAINTENANCE Open the MAINTENANCE menu screen.		"MAINTENANCE" (see page 86)	

OPERATION

This is the selection screen for the OPERATION menu.

```
→** OPERATION **
SYSTEM MODE
OUTPUT FORMAT
SETTING
HD PHASE
BAR ID
SOURCE SETTING
```

Item	Content	Details page
SYSTEM MODE	Display the SYSTEM MODE menu.	➡ "SYSTEM MODE" (see page 52)
OUTPUT FORMAT	Display the OUTPUT FORMAT menu.	➡ "OUTPUT FORMAT" (see page 54)
SETTING	Display the SETTING menu.	➡ "SETTING" (see page 56)
HD PHASE	Display the HD PHASE menu.	➡ "HD PHASE" (see page 57)
BAR ID	Display the BAR ID menu.	➡ "BAR ID" (see page 58)
SOURCE SETTING	Display the SOURCE SETTING menu.	➡ "SOURCE SETTING" (see page 59)

SYSTEM MODE

This is the selection screen for the SYSTEM MODE menu.

→*** SYSTEM MODE ***	
FREQUENCY	59.94Hz
FORMAT HDR SW GAMUT CAMERA NUMBER	2160/59.94p OFF NORMAL 1

___ indicates factory default settings.

Item	Setting value	Setting details
FREQUENCY	59.94Hz*1 50Hz*2	Sets the frequency for the CCU.
FORMAT	<frequency: 59.94hz=""> 2160/59.94p*¹, 2160/29.97p, 2160/23.98p, 1080/59.94p, 1080/29.97p, 1080/23.98p, 2160/59.94p-120fps, 1080/59.94p-240fps, 1080/59.94p-180fps, 1080/59.94p-120fps <frequency: 50hz=""> 2160/50p*², 2160/25p, 1080/50p, 1080/25p, 2160/50p-100fps, 1080/50p-200fps, 1080/50p-150fps, 1080/50p-100fps</frequency:></frequency:>	 Set the CCU format. The unit restarts automatically when the format is changed. The following setting values cannot be selected when AK-UC3300 is connected: [1080/59.94p-240fps] [1080/59.94p-240fps] [720/59.94p-240fps] [720/59.94p-240fps] [1080/50p-200fps] [1080/50p-150fps] [720/50p-200fps] [720/50p-150fps] [720/50p-150fps] * FREQUENCY and FORMAT Conditions" (see page 53)
HDR SW	ON OFF	Enables/disables HDR.
GAMUT	NORMAL WIDE_G2	Change the color gamut.
CAMERA NUMBER	<u>1</u> to 99	Sets the camera number displayed on the camera, CCU LCD panel, and ROP.

*1: AK-UCU700P/700PS/710P/710PS *2: AK-UCU700E/700ES/710E/710ES

FREQUENCY and FORMAT Conditions

FREQUENCY/FORMAT	UHD/HS/HD	SDI OUT		HD SD		IOUT	
	1 2	3	4	5 6	7	8/PM	
59.94Hz		1		1		1	
2160/59 94p	12G: 2160/59.94p no signal			3G: 1080/59.94p		HD: 1080/59 94i	
	3Gx4(2SI): 2160/59.94p	:4(2SI): 2160/59.94p		HD: 1080/59.94i			
				TrueP: 1080/29.97)		
2160/29 97p	6G [.] 2160/29 97p	no signal		PsF: 1080/29.97Ps	F		
	00.2100/20.01p	no signai		Over3G:		PsE: 1080/20 07PsE	
				1080/29.97p over 5	9.94p	1 31 . 1000/23.371 31	
				TrueP: 1080/23.98)		
				PsF: 1080/23.98Ps	F		
2160/23.98p	6G: 2160/23.98p	no signal		Over3G:		Over59i:	
				1080/23.98p over 5	9.94p	1080/23.98p over 59.94i	
				Over59i:		Over59i:	
	0.0.4000/50.04-			1080/23.98p over 59.941		1080/23.98p over 59.941	
1080/59.94p	3G: 1080/59.94p			3G: 1080/59.94p		HD: 1080/59.94i	
	HD: 1080/59.941			HD: 1080/59.941			
	IrueP: 1080/29.97p			TrueP: 1080/29.97)		
1080/29.97p	PsF: 1080/29.97PsF			PsF: 1080/29.97Ps	F		
	Over3G:			Over3G:	0.04=	PsF: 1080/29.97PsF	
	1080/29.97p over 59.94p			1080/29.97p over 5	9.94p	00/00.00m	
	TrueP: 1080/23.98p			TrueP: 1080/23.98		180/23.98p	
					Overbai:	1080/23.98p over 59.94i	
	PsF: 1080/23.98PsF			PsF:	PSF: 1080	J/23.98PSF	
1080/23.98p				1080/23.98PsF Over59i: 1		1080/23.98p over 59.94i	
	Over3G:		Over3G: 1080/23 98p over 59 94p		Over59i: 1080/23 98p over 59 9/i		
	Over59i:		Over59i		Over50i:		
	1080/23.98p over 59.94i		1080/23.98p over 59.94i		1080/23.98p over 59.94i		
	3G: 1080/59.94p-240fps		3G: 1080/59.94p				
1080/59.94p-240fps	HD: 1080/59.94i-240fps			HD: 1080/59.94i		HD: 1080/59.94i	
	3G: 1080/59.94p-180fps	no signal		3G: 1080/59.94p		HD: 1080/59.94i	
1080/59.94p-180fps	HD: 1080/59.94i-180fps			HD: 1080/59.94i			
	3G:			0.0 4000/50.04			
1080/59 94p-120fps	1080/59.94p-120fps	no signal		3G: 1080/59.94p		LID: 4000/50 04	
1000/59.94p-1201ps	HD:	no signal				HD. 1000/59.941	
	1080/59.94i-120fps			112.1000/00.011			
50Hz	1	1		1		1	
2160/50p	12G: 2160/50p	no signal		3G: 1080/50p		HD: 1080/50i	
· .	3Gx4(2SI): 2160/50p	1		HD: 1080/50i			
				TrueP: 1080/25p			
2160/25p	6G: 2160/25p	no signal		PsF: 1080/25PsF		1	
				Over3G:		PsF:	
				1080/25p over 50p		1080/25PsF	
1080/50p	3G: 1080/50p			3G: 1080/50p		HD: 1080/50i	
	HD: 1080/50i			HD: 1080/50i			
	TrueP: 1080/25p	-		TrueP: 1080/25p			
1080/25p	PsF: 1080/25PsF			PsF: 1080/25PsF		1	
	Over3G: 1080/25p over 50	р		Over3G:		PsF: 1080/25PsF	
	20, 1000/50- 2005-			1080/25p over 50p			
1080/50p-200fps	3G: 1080/50p-200fps		3G: 1080/50p		HD: 1080/50i		
				HD: 1080/50i			
1080/50p-150fps	3G: 1080/50p-150tps		no signal	3G: 1080/50p		HD: 1080/50i	
	нD: 1080/50i-150fps			HD: 1080/50i			
	3G: 1080/50p-100fpc			3G: 1080/50p			
1080/50p-100fps	HD.	no signal				HD: 1080/50i	
	1080/50i-100fps			HD: 1080/50i			
				1		1	

OUTPUT FORMAT

This is the selection screen for the OUTPUT FORMAT menu.

***	OUTPUT FORMAT ***		
→SDI	0UT1-4	12G	
SDI	0UT5-6	HD	
	HDR SELECT	SDR	
SDI	0UT7	HD	
	HDR SELECT	SDR	
SDI	0018	HD	
	HDR SELECT	SDR	
	NORMAL/PM	NORMAL	
SDI	0UT5-8		
	HD SDI FORMAT	1080i	

____ indicates factory default settings.

Item	Setting value	Setting details
SDI OUT1-4 SDI OUT1	 FORMAT: 2160/59.94p, 2160/50p <u>12G</u>, 3Gx4(2SI) 	Set the format of the signal output from the [UHD/HS/HD SDI OUT(1 to 4)] connectors.
	• FORMAT: 2160/29.97p, 2160/25p, 2160/23.98p 6G	
SDI OUT1-4 SDI OUT2	 FORMAT: 2160/59.94p-120fps, 2160/50p-100fps 12G 	
SDI OUT1-4	 FORMAT: 1080/59.94p, 1080/50p <u>3G</u>, HD 	
3010013	 FORMAT: 1080/29.97p, 1080/25p <u>TrueP</u>, PsF, Over3G 	
SDI OUT1-4 SDI OUT4	 FORMAT: 1080/29.97p, 1080/25p, 1080/23.98p <u>TrueP</u>, PsF, Over3G, Over59i 	
	 FORMAT: 1080/59.94p-240fps, 1080/59.94p-180fps, 1080/59.94p-120fps, 1080/50p-200fps, 1080/50p-150fps, 1080/50p-100fps <u>3G</u>, HD 	
SDI OUT5-6 SDI OUT5	• FORMAT: 2160/59.94p, 2160/50p 3G, HD	Set the format of the signal output from the [HD SDI OUT(5 to 6)] connectors.
	 FORMAT: 2160/29.97p, 2160/25p, 2160/23.98p <u>TrueP</u>, PsF, Over3G 	
	 FORMAT: 2160/59.94p-120fps, 2160/50p-100fps 3G, HD 	
SDI OUT5-6	 FORMAT: 1080/29.97p, 1080/25p <u>TrueP</u>, PsF, Over3G 	
SDI OUT6	 FORMAT: 1080/29.97p, 1080/25p, 1080/23.98p <u>TrueP</u>, PsF, Over3G, Over59i 	
	 FORMAT: 1080/59.94p-240fps, 1080/59.94p-180fps, 1080/59.94p-120fps, 1080/50p-200fps, 1080/50p-150fps, 1080/50p-100fps <u>3G</u>, HD 	
SDI OUT5-6 HDR SEL	SDR HDR	Change HDR setting of the signal output from the [HD SDI OUT(5 to 6)] connectors.

Item	Setting value	Setting details
Item SDI OUT7	Setting value • FORMAT: 2160/59.94p, 2160/50p 3G, HD • FORMAT: 2160/29.97p, 2160/25p, 2160/23.98p TrueP, PsF, Over3G • FORMAT: 2160/59.94p-120fps, 2160/50p-100fps 3G, HD • FORMAT: 1080/59.94p, 1080/50p 3G, HD • FORMAT: 1080/29.97p, 1080/25p TrueP, PsF, Over3G	Sets the format of the signal output from the [HD SDI OUT(7)] connector.
	 FORMAT: 1080/29.97p, 1080/25p, 1080/23.98p <u>TrueP</u>, PsF, Over3G, Over59i FORMAT: 1080/59.94p-240fps, 1080/59.94p-180fps, 1080/59.94p-120fps, 1080/50p-200fps, 1080/50p-150fps, 1080/50p-100fps <u>3G</u>, HD 	
SDI OUT7 HDR SEL	SDR HDR	Change HDR setting of the signal output from the [HD SDI OUT(7)] connector.
SDI OUT8	 FORMAT: 2160/59.94p, 2160/50p <u>HD</u> FORMAT: 2160/29.97p, 2160/25p <u>TrueP</u>, PsF FORMAT: 2160/23.98p <u>TrueP</u>, PsF, Over1.5G FORMAT: 2160/59.94p-120fps, 2160/50p-100fps <u>HD</u> FORMAT: 1080/59.94p, 1080/50p <u>HD</u> FORMAT: 1080/29.97p, 1080/25p <u>TrueP</u>, PsF FORMAT: 1080/23.98p <u>TrueP</u>, PsF, Over59i FORMAT: 1080/59.94p-240fps, 1080/59.94p-180fps, 1080/59.94p-120fps, 1080/50p-200fps, 1080/50p-150fps, 1080/50p-100fps <u>HD</u> 	Sets the format of the signal output from the [HD SDI OUT(8)] connector.
HDR SEL SDI OUT8 NORMAL/PM	HDR PM NORMAL	 change HDK setting of the signal output from the [HD SDI OUT(8)] connector. Set the signal output from the [HD SDI OUT(8/ PM)] connector. PM: Output the picture monitor images. NORMAL: Output the main line images.

SETTING

This is the selection screen for the SETTING menu.

→*** SETTING ***	
RETURN FS	OFF
MONO SW	OFF
HD BAR SELECT	SMPTE
BAR LPF	9TAP
BAR USER1	100%WHITE
BAR USER2	0%BLACK

___ indicates factory default settings.

Item	Setting value	Setting details
RETURN FS	ON OFF	Set the delay mode for the HD return signals.
MONO SW	ON OFF	Set CCU output video to monochrome.
HD BAR SELECT	STD <u>SMPTE</u> ARIB EIAJ SPLIT	Set the color bar signal for output with the HD signal.
HD BAR LPF	OFF 3TAP 5TAP 7TAP 9TAP	Set the filter to be applied to the color bar signal output with the HD signal.
HD BAR USER1	75%WHITE 100%WHITE +I_SIGNAL -I_SIGNAL	Set user selection 1 for when [ARIB] has been selected as the [HD BAR SELECT] setting.
HD BAR USER2	0%BLACK +Q_SIGNAL	Set user selection 2 for when [ARIB] has been selected as the [HD BAR SELECT] setting.

HD PHASE

This is the selection screen for the HD PHASE menu.

```
→*** HD PHASE ***
HD H COARSE 0
HD H FINE 0
V ADVANCE 0
```

_ indicates factory default settings.

_

Item	Setting value	Setting details
HD H COARSE	-127 to <u>0</u> to +127	Make the coarse setting of the H_FINE phase used with GL HD REF.
HD H FINE	-100 to <u>0</u> to +100	Make the fine setting of the H_FINE phase used with GL HD REF.
V ADVANCE	-3 / -2 / -1 / <u>0</u>	Set the vertical phase of this unit in relation to the vertical phase of the REF signal. The larger the negative value, the larger the advance. The setting unit varies depending on [FORMAT].
		• When the mode is [1080/23.98p], the setting unit is 1H of [1080/23.98p].
		• Otherwise, the setting unit is 1H of [1080/59i] or [1080/50i].

BAR ID

This is the selection screen for the BAR ID menu.

→*** BAR ID ***		
BAR ID SWITCH Brightness ID1 Position	V:00	0FF 100% H:00
ID1 ##		
ID2 POSITION	V:01	H:00
ID2 OFFSET	V:00	H:00

indicates factory default settings.

Item	Setting value	Setting details	
BAR ID SWITCH	ON OFF	Set display of the camera ID in the color bar ON or OFF.	
BRIGHTNESS	0 to <u>100%</u>	Set the text color for the camera ID in the color bar.	
		 The setting can be made in 10% steps. 0 : Black 100%: White 	
ID1 POSITION V	<u>00</u> to 05	Set the starting position (vertical) for display of camera ID1 in the color bar.	
		• Set from which character in the vertical direction, starting from the top left of the color bar, to start displaying the BAR ID using the font size as the reference.	
ID1 POSITION H	<u>00</u> to 15	Set the starting position (horizontal) for display of camera ID1 in the color bar.	
		• Set from which character in the horizontal direction in the color bar to start displaying the BAR ID using the font size as the reference.	
ID1	## (Max. 16 characters)	Set camera ID1. This ID is displayed in the color bar.	
		Characters which can be used: Alphanumeric characters, spaces, ! # % & ' () * + , / : ; < = > ? [] _ ~	
		 If "##" is input, that portion is replaced with the camera number (1 to 15) being managed by the CCU. 	
ID2 POSITION V	00, <u>01</u> to 05	Set the starting position (vertical) for display of camera ID2 in the color bar.	
		• Set from which character in the vertical direction, starting from the top left of the color bar, to start displaying the BAR ID using the font size as the reference.	
ID2 POSITION H	<u>00</u> to 15	Set the starting position (horizontal) for display of camera ID2 in the color bar.	
		• Set from which character in the horizontal direction in the color bar to start displaying the BAR ID using the font size as the reference.	
ID2	<u>Spaces</u> (Max. 16 characters)	Set camera ID2. This ID is displayed in the color bar.	
		 Characters which can be used: Alphanumeric characters, spaces, ! # % & ' () * + , / : ; < = > ? [] _ ~ If "##" is input, that portion is replaced with the camera number (1 to 99) being managed by the CCU. 	
OFFSET V	<u>00</u> to 89	Specify the origin (upper left) in the vertical direction of the character drawing area in pixels.	
OFFSET H	<u>00</u> to 79	Specify the origin (upper left) in the horizontal direction of the character drawing area in pixels.	

NOTE

• When the coordinates of ID1 and ID2 are the same, BAR ID1's character string will be placed on top of BAR ID2 (BAR ID2 will be on the bottom). When the vertical coordinates are the same and the horizontal coordinates differ, the BAR ID with the horizontal coordinates set later will be placed on top.

SOURCE SETTING

This is the selection screen for the SOURCE SETTING menu.

→** SOURCE SETTING **	
REF SIGNAL RETURN SIGNAL PROMPTER SIGNAL NDI/SRT SELECT NDI/SRT OUT SIGNAL INCOM/PGM SIGNAL AUX OUT SIGNAL	BB/TRI-LEVEL SDI SDI NORMAL SDI_RET1

indicates factory default settings.

Item	Setting value	Setting details
REF SIGNAL	BB/TRI-LEVEL	Selects the input connector for reference signals.
	PTP	This is fixed to [BB/TRI-LEVEL] when AK-NP701 is not attached.
RETURN SIGNAL	SDI	Selects the input connector for the return signals.
	ST2110	• [ST2110] cannot be selected when AK-NP701 is not attached.
		• [NDI] cannot be selected when AK-NP703 is not attached.
PROMPTER SIGNAL	SDI	Selects the input connector for the PROMPTER signal.
	ST2110	• [ST2110] cannot be selected when AK-NP701 is not attached.
NDI/SRT SELECT*1	NDI SRT	Selects the protocol output by the Streaming connector.
		• Displayed as "" when AK-NP703 is not attached.
NDI/SRT OUT SIGNAL	CAM	Selects the signal output by the Streaming connector.
	MONI	• Displayed as "" when AK-NP703 is not attached.
INCOM/PGM SIGNAL	NORMAL ST2110 DANTE	Selects the signal used with INCOM/PGM.
		• This is fixed to [NORMAL] when neither AK-NP701 nor AK-NP702 is attached.
		• [ST2110] can be selected when AK-NP701 is attached.
		• [DANTE] can be selected when AK-NP702 is attached.
AUX OUT SIGNAL	SDI_RET1 SDI_RET2 SDI_RET3 SDI_RET4 ST2110_RET NDI	Selects the signal output with AUX OUT.

*1: When you select 2160/29.97p, 2160/23.98p, 1080/29.97p, 1080/23.98p, 2160/25p, or 1080/25p as the FORMAT, transmission by both NDI and SRT is limited. Furthermore, when you select 2160/59.94p or 2160/50p as the FORMAT, transmission by SRT is limited.

AUDIO

This is the selection screen for the AUDIO menu.

```
→** AUDIO **
MIC OUT
CCU INTERCOM TALK
CCU INTERCOM RECEIVE
COMMUNICATION
INTERCOM1
INTERCOM2
PGM
MOIP FORMAT
```

Item	Content	Details page	
MIC OUT	Display the MIC OUT menu.	➡ "MIC OUT" (see page 60)	
CCU INTERCOM TALK	Display the CCU INTERCOM TALK menu.	➡ "CCU INTERCOM TALK" (see page 61)	
CCU INTERCOM RECEIVE	Display the CCU INTERCOM RECEIVE menu.	➡ "CCU INTERCOM RECEIVE" (see page 61)	
COMMUNICATION	Display the COMMUNICATION menu.	"COMMUNICATION" (see page 62)	
INTERCOM1	Display the INTERCOM1 menu.	➡ "INTERCOM1" (see page 63)	
INTERCOM2	Display the INTERCOM2 menu.	➡ "INTERCOM2" (see page 64)	
PGM	Display the PGM menu.	➡ "PGM" (see page 65)	
MoIP FORMAT	Sets the audio input and output formats for MOIP. (Enabled only when option AK-NP701 is attached.)	"MoIP FORMAT" (see page 65)	

MIC OUT

This is the selection screen for the MIC OUT menu.

→**** MIC OUT	***			
MIC1 OUT	GAIN:	0dB	LV:	0dB
MICZ OUT	GAIN:	UUB	LV:	UUB

____ indicates factory default settings.

Item	Setting value	Setting details	
MIC1 OUT GAIN	0dB +4dB	This switches the analog output gain for MIC1.	
MIC1 OUT LV -40dB to <u>0dB</u> to +20dB		This adjusts the analog output level for MIC1.	
MIC2 OUT GAIN <u>0dB</u> +4dB		This switches the analog output gain for MIC2.	
MIC2 OUT LV -40dB to <u>0dB</u> to +20dB		This adjusts the analog output level for MIC2.	

CCU INTERCOM TALK

This is the selection screen for the CCU INTERCOM TALK menu.

							-
→***	CCU	IN	TERCOM	TALK	***		
MIC MIC SIDI CCU	TYPI POWI GAII E TOI INCO	E E R N E D M	ON/OFF			DYN OFF Odb -6db ON	

indicates factory default settings.

Item	Setting value	Setting details
MIC TYPE	DYN ECM CBN	Select the type of intercom microphone.
MIC POWER	ON OFF	Set the power supply of the intercom microphone to ON or OFF.
MIC GAIN	-40dB to <u>0dB</u> to +12dB (1dB Step)	This is the volume control of the intercom microphone.
SIDE TONE	OFF -36dB to <u>-6dB</u> to 0dB	This is the volume control of the intercom microphone side tone.
CCU INCOM ON/OFF	ON OFF	Set the intercom to ON or OFF.

CCU INTERCOM RECEIVE

This is the selection screen for the CCU INTERCOM RECEIVE menu.



indicates factory default settings.

_

Item	Setting value	Setting details
CCU INCOM VR MIN MODE	MUTE MIN_GAIN	Set the minimum intercom volume level.
PGM VR MIN MODE	MUTE MIN_GAIN	Set the minimum PGM volume level.
CCU INCOM OUT GAIN	NORMAL BOOST	Switch the intercom output level.
ENG MIX CH2	ON OFF	Set whether to mix the ENG signal with the intercom's CH2 output.Not displayed when "INCOM CONNECTOR = XLR 4pin".
PROD MIX CH2	ON OFF	Set whether to mix the PROD signal with the intercom's CH2 output.Not displayed when "INCOM CONNECTOR = XLR 4pin".
PGM1 MIX CH2	ON OFF	Set whether to mix the PGM1 signal with the intercom's CH2 output.Not displayed when "INCOM CONNECTOR = XLR 4pin".
PGM2 MIX CH2	MIX CH2 ON Set whether to mix the PGM2 signal with the inte OFF • Not displayed when "INCOM CONNECTOR =	

COMMUNICATION

This is the selection screen for the COMMUNICATION menu.

→*** COMMUNICATION ***	
INCOM1 ENG/PROD INCOM2 ENG/PROD PRIV/SYSTEM SW	ENG PROD ENG

indicates factory default settings.

Item	Setting value	Setting details
INCOM1 ENG/PROD	ENG PROD	Set the intercom 1 voice line of the communication connector.
INCOM2 ENG/PROD	ENG PROD	Set the intercom 2 voice line of the communication connector.
PRIV/SYSTEM SW	ENG PROD BOTH OFF INCOM1 INCOM2	Set the voice assignment of the [PRIV/SYSTEM] switch.

INTERCOM1

This is the selection screen for the INTERCOM1 menu.

ANTEDCOM1 WHY	
ማተተት በህገርጽርሀም፤ ተተተ	
4W/RTS/CLRCOM	4 W
4W INPUT GAIN	0 d B
4W INPUT LEVEL	0 d B
4W OUTPUT LEVEL	0 d B
RTS INPUT LEVEL	0 d B
RTS OUTPUT LEVEL	0 d B
RTS CANCEL LEVEL	0.0dB
CLRCOM INPUT LEVEL	0 d B
CLRCOM OUTPUT LEVEL	0 d B
CLRCOM CANCEL LEVEL	0.0dB
RTS/CLRCOM LOAD	0 F F

_ indicates factory default settings.

Item Setting value		Setting details		
4W/RTS/CLRCOM	4W RTS CLRCOM	Select the intercom 1 voice I/O method.		
4W INPUT GAIN	0dB 20dB	Switch the 4W (intercom 1) input gain.		
4W INPUT LEVEL	-40dB to <u>0dB</u> to +20dB (1dB Step)	Switch the 4W (intercom 1) input level.		
4W OUTPUT LEVEL	-40dB to <u>0dB</u> to +20dB (1dB Step)	Switch the 4W (intercom 1) output level.		
RTS INPUT LEVEL -40dB to 0dB to +20dB (1dB Step)		Switch the RTS (intercom 1) input level.		
RTS OUTPUT LEVEL -40dB to 0dB to +20dB (1dB Step)		Switch the RTS (intercom 1) output level.		
RTS CANCEL LEVEL -20.0dB to +20.0dB *1 (0.5dB Step)		Switch the RTS (intercom 1) I/O cancellation level.		
CLRCOM INPUT LEVEL	-40dB to <u>0dB</u> to +20dB (1dB Step)	Set the clear-com (intercom 1) input volume.		
CLRCOM OUTPUT LEVEL	-40dB to <u>0dB</u> to +20dB (1dB Step)	Set the clear-com (intercom 1) output volume.		
CLRCOM CANCEL LEVEL	-20.0dB to +20.0dB *1 (0.5dB Step)	Adjust the clear-com (intercom 1) I/O cancellation signal level.		
RTS/CLRCOM LOAD	ON OFF	Switch ON or OFF for the intercom 1 RTS/CLRCOM 200 Ω load.		

*1: The default setting varies depending on adjustment at the factory.

INTERCOM2

This is the selection screen for the INTERCOM2 menu.

4W/RTS/CLRCOM4W4W INPUT GAINOdB4W INPUT LEVELOdB4W OUTPUT LEVELOdBRTS INPUT LEVELOdBRTS OUTPUT LEVELOdBRTS CANCEL LEVELO.0dBCLRCOM OUTPUT LEVELOdBCLRCOM CANCEL LEVELO.0dBCLRCOM CANCEL LEVELO.0dB	ſ	→*** INTERCOM2 ***	Ì
RIS/CLRCOM LOAD OFF		4W/RTS/CLRCOM 4W INPUT GAIN 4W INPUT LEVEL 4W OUTPUT LEVEL RTS INPUT LEVEL RTS OUTPUT LEVEL RTS CANCEL LEVEL CLRCOM OUTPUT LEVEL CLRCOM CANCEL LEVEL RTS/CLRCOM LOAD	4 W 0 d B 0 d B

_ indicates factory default settings.

Item Setting value		Setting details		
4W/RTS/CLRCOM	4W RTS CLRCOM	Select the intercom 2 voice I/O method.		
4W INPUT GAIN	0dB 20dB	Switch the 4W (intercom 2) input gain.		
4W INPUT LEVEL	-40dB to <u>0dB</u> to +20dB (1dB Step)	Switch the 4W (intercom 2) input level.		
4W OUTPUT LEVEL	-40dB to <u>0dB</u> to +20dB (1dB Step)	Switch the 4W (intercom 2) output level.		
RTS INPUT LEVEL -40dB to 0dB to +20dB (1dB Step)		Switch the RTS (intercom 2) input level.		
RTS OUTPUT LEVEL -40dB to 0dB to +20dB (1dB Step)		Switch the RTS (intercom 2) output level.		
RTS CANCEL LEVEL -20.0dB to +20.0dB *1 (0.5dB Step)		Switch the RTS (intercom 2) I/O cancellation level.		
CLRCOM INPUT LEVEL	-40dB to <u>0dB</u> to +20dB (1dB Step)	Set the clear-com (intercom 2) input volume.		
CLRCOM OUTPUT LEVEL	-40dB to <u>0dB</u> to +20dB (1dB Step)	Set the clear-com (intercom 2) output volume.		
CLRCOM CANCEL LEVEL	-20.0dB to +20.0dB *1 (0.5dB Step)	Adjust the clear-com (intercom 2) I/O cancellation signal level.		
RTS/CLRCOM LOAD ON OFF		Switch ON or OFF for the intercom 2 RTS/CLRCOM 200 Ω load.		

*1: The default setting varies depending on adjustment at the factory.

PGM

This is the selection screen for the PGM menu.

→*** PGM ***				
PGM1 PGM2	GAIN:	0dB	LEVEL:	0dB
TUNE	UATN:	UUD		VUD

___ indicates factory default settings.

Item	Setting value	Setting details
PGM1 GAIN	0dB 20dB	Switch the PGM1 input gain.
PGM1 LEVEL -40dB to <u>0dB</u> to +20dB		Set the PGM1 input volume.
PGM2 GAIN	0dB 20dB	Switch the PGM2 input gain.
PGM2 LEVEL	-40dB to <u>0dB</u> to +20dB	Set the PGM2 input volume.

MoIP FORMAT

This is the selection screen for the MoIP FORMAT menu.

→*** MoIP FORMAT ***	
MIC1 TX MIC2 TX PGM1 RX PGM2 RX INCOM1 TX INCOM2 TX INCOM1 RX INCOM2 RX	1ms/8ch 1ms/8ch 1ms/8ch 1ms/8ch 1ms/8ch 1ms/8ch 1ms/8ch 1ms/8ch

____ indicates factory default settings.

Item	Setting value	Setting details
MIC1 TX	1ms/2ch, 1ms/4ch, <u>1ms/8ch</u> , 0.125ms/2ch, 0.125ms/4ch, 0.125ms/8ch, 0.125ms/16ch, 0.125ms/64ch	Sets the format for MIC1 output.
MIC2 TX	1ms/2ch, 1ms/4ch, <u>1ms/8ch</u> , 0.125ms/2ch, 0.125ms/4ch, 0.125ms/8ch, 0.125ms/16ch, 0.125ms/64ch	Sets the format for MIC2 output.
PGM1 RX	1ms/2ch, 1ms/4ch, <u>1ms/8ch</u> , 0.125ms/2ch, 0.125ms/4ch, 0.125ms/8ch, 0.125ms/16ch, 0.125ms/64ch	Sets the format for PGM1 input.
PGM2 RX	1ms/2ch, 1ms/4ch, <u>1ms/8ch</u> , 0.125ms/2ch, 0.125ms/4ch, 0.125ms/8ch, 0.125ms/16ch, 0.125ms/64ch	Sets the format for PGM2 input.
INCOM1 TX	1ms/2ch, 1ms/4ch, <u>1ms/8ch</u> , 0.125ms/2ch, 0.125ms/4ch, 0.125ms/8ch, 0.125ms/16ch, 0.125ms/64ch	Sets the format for INCOM1 output.
INCOM2 TX	1ms/2ch, 1ms/4ch, <u>1ms/8ch</u> , 0.125ms/2ch, 0.125ms/4ch, 0.125ms/8ch, 0.125ms/16ch, 0.125ms/64ch	Sets the format for INCOM2 output.
INCOM1 RX	1ms/2ch, 1ms/4ch, <u>1ms/8ch</u> , 0.125ms/2ch, 0.125ms/4ch, 0.125ms/8ch, 0.125ms/16ch, 0.125ms/64ch	Sets the format for INCOM1 input.
INCOM2 RX	1ms/2ch, 1ms/4ch, <u>1ms/8ch</u> , 0.125ms/2ch, 0.125ms/4ch, 0.125ms/8ch, 0.125ms/16ch, 0.125ms/64ch	Sets the format for INCOM2 input.

NETWORK

This is the selection screen for the NETWORK menu.

r		
	→*** NETWORK ***	
	LAN	
	TALLY IN SETTING	
	PTP SETTING	
	ST2110 SETTING	
	SFP1(PRIMARY)	
	SFP1(PRIMARY)TX	
	SFP1(PRIMARY)RX	
	SFP2(SECONDARY)	
	SFP2(SECONDARY)TX	
	SFP2(SECONDARY)RX	
	NMOS SETTING	
	NDI/SRT SETTING	
	DNS SETTING	

Item Content		Details page
LAN	Display the LAN menu.	➡ "LAN" (see page 67)
TALLY IN SETTING	Display the TALLY IN SETTING menu.	➡ "TALLY IN SETTING" (see page 68)
PTP SETTING	Display the PTP SETTING menu.	➡ "PTP SETTING" (see page 69)
	• Can be set when the AK-NP701 option board is attached.	
ST2110 SETTING	Display the ST2110 SETTING menu.	➡ "ST2110 SETTING" (see page 70)
	• Can be set when the AK-NP701 option board is attached.	
SFP1(PRIMARY)	Display the SFP1(PRIMARY) menu.	"SFP1(PRIMARY)" (see page 71)
	• Can be set when the AK-NP701 option board is attached.	
SFP1(PRIMARY)TX	Display the SFP1(PRIMARY)TX menu.	"SFP1(PRIMARY)TX" (see page 72)
	• Can be set when the AK-NP701 option board is attached.	
SFP1(PRIMARY)RX	Display the SFP1(PRIMARY)RX menu.	"SFP1(PRIMARY)RX" (see page 74)
	• Can be set when the AK-NP701 option board is attached.	
SFP2(SECONDARY)	Display the SFP2(SECONDARY) menu.	"SFP2(SECONDARY)" (see page 77)
	• Can be set when the AK-NP701 option board is attached.	
SFP2(SECONDARY)TX	Display the SFP2(SECONDARY)TX menu.	"SFP2(SECONDARY)TX" (see page 78)
	• Can be set when the AK-NP701 option board is attached.	
SFP2(SECONDARY)RX	Display the SFP2(SECONDARY)RX menu.	"SFP2(SECONDARY)RX" (see page 80)
	• Can be set when the AK-NP701 option board is attached.	
NMOS SETTING	Display the NMOS SETTING menu.	"NMOS SETTING" (see page 83)
	• Can be set when the AK-NP701 option board is attached.	
NDI/SRT SETTING	Display the NDI/SRT SETTING menu.	"NDI/SRT SETTING" (see page 84)
	• Can be set when the AK-NP703 option board is attached.	
DNS SETTING	Display the DNS SETTING menu.	➡ "DNS SETTING" (see page 85)
	Can be set when the AK-NP703 option board is attached.	

LAN

This is the selection screen for the LAN menu.

When [SET EXECUTE] is executed after making each of the settings, [NETWORK SET EXECUTE NO/YES] is displayed. Select "YES" to confirm the settings. If you close the menu without executing [SET EXECUTE], the modified content returns to the original settings.



The following information is required to configure network settings. Consult your network administrator or Internet service provider.

- IP address
- Port
- Subnet mask
- Default gateway (when using a gateway server or router)

Item	Setting value	Setting details	
DHCP	ON OFF	Enables/disables DHCP.	
IP ADDRESS	192.168.0.20	Set the IP address.	
		• Select and set each set of three digits with the cursor.	
SUBNETMASK	255.255.255.0	Set the subnet mask.	
DEFAULT GATEWAY	192.168.0.1	Set the default gateway.	
HTTP PORT	00001 to 00080 to 65535 (20, 21, 23, 25, 42, 53, 67, 68, 69, 110, 123, 161, 162, 995, 10669, and 10670 are prohibited)	Set the port number used for web access.	
ROP PORT	49152, 49200 to 49299	Set the port number used for connecting to the ROP.	
MAC ADDRESS	Display only	Displays the MAC address.	
NTP SERVER ADDR	1.0.0.1 to <u>192.168.0.123</u> to 223.255.255.254	Set the server for acquiring NTP.	
NTP PORT	1 to <u>123</u> to 65535	Set the port number of the NTP server to be connected.	
NTP TIME ADJUSTMENT INTERVAL	1h to 24h (1h Step)	Set the access interval for the NTP server.	

indicates factory default settings.

TALLY IN SETTING

This is the selection screen for the TALLY IN SETTING menu.

• When [SET EXECUTE] is executed after making each of the settings, [NETWORK SET EXECUTE NO/YES] is displayed. Select "YES" to confirm the settings. If you close the menu without executing [SET EXECUTE], the modified content returns to the original settings.

	TALLY	IN	SETTING	***	
IND PORT	EX No. F				1 62000
SET	EXECUT	ΓE			

_ indicates factory default settings.

Item	Setting value	Setting details
INDEX No.	<u>1</u> to 255	Sets the INDEX No. set by devices that output TALLY.
PORT	60000 to <u>62000</u> to 65535	Sets the PORT for TALLY IN.

• The IP address for TALLY IN will be that of the settings for the [LAN] connector.

PTP SETTING

This is the selection screen for the PTP SETTING menu.

- Can be set when the AK-NP701 option board is attached.
- When [SET EXECUTE] is executed after making each of the settings, [NETWORK SET EXECUTE NO/YES] is displayed. Select "YES" to confirm the settings. If you close the menu without executing [SET EXECUTE], the modified content returns to the original settings.

```
→*** PTP SETTING ***

PRIMARY
CLOCK TYPE(PRM) BC
IP ADDR(PRM) 0. 0. 0. 0
SECONDARY
CLOCK TYPE(SCD) BC
IP ADDR(SCD) 0. 0. 0. 0
DOMAIN 127
STATUS
GRANDMASTER ID
FF-FF-FF-FF-FF-FF-FF
SET EXECUTE
```

indicates factory default settings.

ltem	Setting value	Setting details
PRIMARY		
CLOCK TYPE(PRM)	BC E2E TC P2P TC	Sets the CLOCK TYPE for PTP(PRIMARY).
▶IP ADDR(PRM)	Display only	Displays the IP address for PTP(PRIMARY).
SECONDARY		
►CLOCK TYPE(SCD)	BC E2E TC P2P TC	Sets the CLOCK TYPE for PTP(SECONDARY).
▶IP ADDR(SCD)	Display only	Displays the IP address for PTP(SECONDARY).
DOMAIN	1 to <u>127</u>	Sets the DOMAIN number.
STATUS		
GRANDMASTER ID	Display only	Displays the GRANDMASTER ID.

ST2110 SETTING

This is the selection screen for the ST2110 SETTING menu.

- Can be set when the AK-NP701 option board is attached.
- When [SET EXECUTE] is executed after setting SFP SPEED or VIDEO COMP, [NETWORK SET EXECUTE NO/YES] is displayed. Select "YES" to confirm the setting and the unit restarts. If you close the menu without executing [SET EXECUTE], the modified content returns to the original settings.

→*** ST2110 SETTIN	G(1⁄2) ***	→*** ST2110 SETTING(2 / 2) ***
SFP SPEED VIDEO COMP SET EXECUTE	25G-FEC UNCOMP	ST2110 TX SW MAIN VIDEOENABLE ENABLEMONITOR VIDEOENABLE HD TRUNK VIDEOHD TRUNK AUDIOENABLE ENABLEMIC1ENABLE INCOM1INCOM2ENABLESET EXECUTE

_ indicates factory default settings.

Item	Setting value	Setting details
SFP SPEED	25G-FEC 25G 10G	Make SFP module SPEED settings.Use an SFP module that is compatible with the set SPEED.
VIDEO COMP	UNCOMP JPEG XS	Sets the images to be transmitted via ST2110.

_ indicates factory default settings.

Item	Setting value	Setting details
ST2110 TX SW		Cannot be changed when the [NMOS SETTING] > [NMOS CONTROL] is ON. Only displays the status.
MAIN VIDEO	ENABLE DISABLE	Transmission can be enabled/disabled.
MONITOR VIDEO	ENABLE DISABLE	Transmission can be enabled/disabled.
HD TRUNK VIDEO	ENABLE DISABLE	Transmission can be enabled/disabled.
HD TRUNK AUDIO	ENABLE DISABLE	Transmission can be enabled/disabled.
▶MIC1	ENABLE DISABLE	Transmission can be enabled/disabled.
▶MIC2	ENABLE DISABLE	Transmission can be enabled/disabled.
►INCOM1	ENABLE DISABLE	Transmission can be enabled/disabled.
►INCOM2	ENABLE DISABLE	Transmission can be enabled/disabled.

SFP1(PRIMARY)

This is the selection screen for the SFP1(PRIMARY) menu.

- Can be set when the AK-NP701 option board is attached.
- When [SET EXECUTE] is executed after making each of the settings, [NETWORK SET EXECUTE NO/YES] is displayed. Select "YES" to confirm the settings. If you close the menu without executing [SET EXECUTE], the modified content returns to the original settings.

```
→*** SFP1(PRIMARY)(1/2) ***

MAIN
DHCP
OFF
IP ADDRESS
192.168.
1.50
PORT
SUBNETMASK
255.255.255.
0
DEFAULT GATEWAY
192.168.
1.
MAC ADDRESS
FF-FF-FF-FF-FF
SET EXECUTE

>**** SFP1(PRIMARY)(2/2) ***
TRANSCEIVER
VENDOR NAME
VENDOR NAME
VENDOR REV
VENDOR REV
VENDOR SN
DATA CODE
TX POWER
RX POWER
```

The following information is required to configure network settings. Consult your network administrator or Internet service provider.

- IP address
- Port
- Subnet mask
- Default gateway (when using a gateway server or router)

ltem	Setting value	Setting details
MAIN	-	
►DHCP	ON OFF	Enables/disables DHCP.
▶IP ADDRESS	192.168.1.50	Sets the IP address for SFP1(PRIMARY).
▶PORT	1024 to <u>49300</u> to 65535 (Setting 10670 is prohibited.)	Sets the PORT for SFP1(PRIMARY).
SUBNETMASK	255.255.255.0	Sets the subnet mask for SFP1(PRIMARY).
DEFAULT GATEWAY	192.168.1.1	Sets the default gateway for SFP1(PRIMARY).
MAC ADDRESS	Display only	Displays the MAC address for SFP1(PRIMARY).

Item	Display description
TRANSCEIVER	Displays the transceiver specifications for the SFP module.
VENDOR NAME	Displays vendor information for the SFP module.
VENDOR PN	Displays the part number code for the SFP module.
VENDOR REV	Displays the revision code for the SFP module.
VENDOR SN	Displays the serial number of the SFP module.
DATA CODE	Displays the data code for the SFP module.
TX POWER	Displays the strength of the light being output via the SFP module.
RX POWER	Displays the strength of the light being received by the SFP module.

__ indicates factory default settings.

SFP1(PRIMARY)TX

This is the selection screen for the SFP1(PRIMARY)TX menu.

- Can be set when the AK-NP701 option board is attached.
- When [SET EXECUTE] is executed after making each of the settings, [NETWORK SET EXECUTE NO/YES] is displayed. Select "YES" to confirm the settings. If you close the menu without executing [SET EXECUTE], the modified content returns to the original settings.



indicates factory default settings.

Item	Setting value	Setting details
MAIN VIDEO TX		This is the setting for the main line output video.
▶IP ADDRESS	239.1.0.1	Sets the IP address for MAIN VIDEO TX.
▶PORT	1024 to <u>49311</u> to 65535 (Setting 10670 is prohibited.)	Sets the PORT for MAIN VIDEO TX.
JPEG XS TX	<u>`</u>	This is the setting for the JPEG XS.
▶IP ADDRESS	239.1.0.10	Sets the IP address for JPEG XS TX.
▶PORT	1024 to <u>49361</u> to 65535 (Setting 10670 is prohibited.)	Sets the PORT for JPEG XS TX.
MONITOR VIDEO TX		This is the setting for the monitor output video.
▶IP ADDRESS	239.1.0.11	Sets the IP address for MONITOR VIDEO TX.
▶PORT	1024 to <u>49312</u> to 65535 (Setting 10670 is prohibited.)	Sets the PORT for MONITOR VIDEO TX.
HD TRUNK TX		This is the setting for the HD TRUNK TX.
▶IP ADDRESS	239.2.0.1	Sets the IP address for HD TRUNK TX.
▶PORT	1024 to <u>49321</u> to 65535 (Setting 10670 is prohibited.)	Sets the PORT for HD TRUNK TX.
HD TRUNK AUDIO TX		This is the setting for the HD TRUNK AUDIO TX.
▶IP ADDRESS	239.3.0.1	Sets the IP address for HD TRUNK AUDIO TX.
▶PORT	1024 to <u>49331</u> to 65535 (Setting 10670 is prohibited.)	Sets the PORT for HD TRUNK AUDIO TX.
MIC1 AUDIO TX		This is the setting for the MIC1 output.
▶IP ADDRESS	239.4.0.1	Sets the IP address for MIC1 AUDIO TX.
▶PORT	1024 to <u>49341</u> to 65535 (Setting <u>10670</u> is prohibited.)	Sets the PORT for MIC1 AUDIO TX.
MIC2 AUDIO TX		This is the setting for the MIC2 output.
▶IP ADDRESS	239.4.0.2	Sets the IP address for MIC2 AUDIO TX.
▶PORT	1024 to 49342 to 65535 (Setting 10670 is prohibited.)	Sets the PORT for MIC2 AUDIO TX.
Item	Setting value	Setting details
-----------------	-----------------------------------------------------------------	--------------------------------------------
INCOM1 AUDIO TX		This is the setting for the INCOM1 output.
▶IP ADDRESS	239.5.0.1	Sets the IP address for INCOM1 AUDIO TX.
▶PORT	1024 to <u>49351</u> to 65535 (Setting 10670 is prohibited.)	Sets the PORT for INCOM1 AUDIO TX.
INCOM2 AUDIO TX	<u>`</u>	This is the setting for the INCOM2 output.
▶IP ADDRESS	239.5.0.2	Sets the IP address for INCOM2 AUDIO TX.
▶PORT	1024 to <u>49352</u> to 65535 (Setting 10670 is prohibited.)	Sets the PORT for INCOM2 AUDIO TX.

SFP1(PRIMARY)RX

This is the selection screen for the SFP1(PRIMARY)RX menu.

- Can be set when the AK-NP701 option board is attached.
- When [SET EXECUTE] is executed after making each of the settings, [NETWORK SET EXECUTE NO/YES] is displayed. Select "YES" to confirm the settings. If you close the menu without executing [SET EXECUTE], the modified content returns to the original settings.

→*** SFP1(PRM) RX(1/7) ***	→*** SFP1(PRM) RX(2/7) ***
RET1 VIDEO RX MCAST ADDR 239. 11. 0. 1 SOURCE ADDR 0. 0. 0. 0 PORT 49411 RET2 VIDEO RX MCAST ADDR 239. 11. 0. 2 SOURCE ADDR 0. 0. 0. 0 0 PORT 49412 49412	RET3 VIDEO RX MCAST ADDR 239. 11. 0. 3 SOURCE ADDR 0. 0. 0. 0 PORT 49413 RET4 VIDEO RX 239. 11. 0. 4 MCAST ADDR 239. 11. 0. 4 SOURCE ADDR 0. 0. 0. 0 PORT 49413
SET EXECUTE	SET EXECUTE
→*** SFP1(PRM) RX(3/7) ***	→*** SFP1(PRM) RX(4/7) ***
HD PROMPTER RX MCAST ADDR 239. 12. 0. 1 SOURCE ADDR 0. 0. 0 PORT 49421 HD PROMPTER AUDIO RX MCAST ADDR 239. 13. 0. 1 SOURCE ADDR 0. 0. 0. 0 0 PORT 49421 49421	PGM1 AUDIO RX MCAST ADDR 239. 14. 0. 1 SOURCE ADDR 0. 0. 0 PORT 49441 PGM2 AUDIO RX 49441 MCAST ADDR 239. 14. 0. 2 SOURCE ADDR 0. 0. 0. 0 PGM2 AUDIO RX 49441 MCAST ADDR 239. 14. 0. 2 SOURCE ADDR 0. 0. 0. 0 PORT 49442
SET EXECUTE	SET EXECUTE
→*** SFP1(PRM) RX(5/7) ***	→*** SFP1(PRM) RX(6/7) ***
→**** SFP1(PRM) RX(5/7) **** INCOM1 AUDIO RX MCAST ADDR 239. 15. 0. 1 SOURCE ADDR 0. 0. 0 PORT 49451 INCOM2 AUDIO RX MCAST ADDR MCAST ADDR 239. 15. 0. 2 SOURCE ADDR 0. 0. 0. 0 PORT 239. 15. 0. 2 SOURCE ADDR 0. 0. 0. 0 PORT 49452	→*** SFP1(PRM) RX(6/7) *** RET1 JPEG XS RX MCAST ADDR 239.16.0.1 SOURCE ADDR 0.0.0 PORT 49461 RET2 JPEG XS RX MCAST ADDR 239.16.0.2 SOURCE ADDR 0.0.0 PORT 49462
→**** SFP1(PRM) RX(5/7) **** INCOM1 AUDIO RX MCAST ADDR 239. 15. 0. 1 SOURCE ADDR 0. 0. 0 PORT 49451 INCOM2 AUDIO RX 239. 15. 0. 2 MCAST ADDR 239. 15. 0. 2 SOURCE ADDR 0. 0. 0. 0 PORT 49452 SET EXECUTE SET EXECUTE	→**** SFP1(PRM) RX(6/7) **** RET1 JPEG XS RX MCAST ADDR 239. 16. 0. 1 SOURCE ADDR 0. 0. 0. 0 PORT 49461 RET2 JPEG XS RX MCAST ADDR MCAST ADDR 239. 16. 0. 2 SOURCE ADDR 0. 0. 0. 0 PORT 49461 SURCE ADDR 0. 0. 0 PORT 49462 SET EXECUTE SET EXECUTE
<pre> →**** SFP1(PRM) RX(5/7) **** INCOM1 AUDIO RX MCAST ADDR 239. 15. 0. 1 SOURCE ADDR 0. 0. 0 PORT 49451 INCOM2 AUDIO RX MCAST ADDR 239. 15. 0. 2 SOURCE ADDR 0. 0. 0. 0 PORT 49452 SET EXECUTE </pre>	→*** SFP1(PRM) RX(6/7) *** RET1 JPEG XS RX MCAST ADDR 239. 16. 0. 1 SOURCE ADDR 0. 0. 0. 0 PORT 49461 RET2 JPEG XS RX MCAST ADDR MCAST ADDR 239. 16. 0. 2 SOURCE ADDR 0. 0. 0. 0 PORT 49461 SOURCE ADDR 0. 0. 0. 0 PORT 49462 SET EXECUTE SET EXECUTE
<pre></pre>	<pre>→*** SFP1(PRM) RX(6/7) *** RET1 JPEG XS RX MCAST ADDR 239. 16. 0. 1 SOURCE ADDR 0. 0. 0. 0 PORT 49461 RET2 JPEG XS RX MCAST ADDR 239. 16. 0. 2 SOURCE ADDR 0. 0. 0. 0 PORT 49462 SET EXECUTE</pre>
→**** SFP1(PRM) RX(5/7) **** INCOM1 AUDIO RX MCAST ADDR 239. 15. 0. 1 SOURCE ADDR 0. 0. 0 PORT 49451 INCOM2 AUDIO RX 49451 MCAST ADDR 239. 15. 0. 2 SOURCE ADDR 0. 0. 0. 0 PORT 49452 SET EXECUTE	<pre>→*** SFP1(PRM) RX(6/7) *** RET1 JPEG XS RX MCAST ADDR 239.16. 0. 1 SOURCE ADDR 0. 0. 0. 0 PORT 49461 RET2 JPEG XS RX MCAST ADDR 239.16. 0. 2 SOURCE ADDR 0. 0. 0. 0 PORT 49462 SET EXECUTE </pre>

indicates factory default settings.

Item	Setting value	Setting details
RET1 VIDEO RX		This is the setting for the return video input 1.
MCAST ADDR	<u>239.11.0.1</u>	Sets the multicast address for RET1 VIDEO RX.
SOURCE ADDR	0.0.0.0	Sets the transmission source IP address for RET1 VIDEO RX.
		• Set to 0.0.0.0 if no limitations on multicast source are to be implemented.
		• If you want to establish a source address, set the relevant address.
▶PORT	1024 to <u>49411</u> to 65535 (Setting 10670 is prohibited.)	Sets the PORT for RET1 VIDEO RX.

_ indicates factory default settings.

Item	Setting value	Setting details
RET2 VIDEO RX	I	This is the setting for the return video input 2.
MCAST ADDR	239.11.0.2	Sets the multicast address for RET2 VIDEO RX.
▶SOURCE ADDR	0.0.0.0	Sets the transmission source IP address for RET2 VIDEO RX.
		• Set to 0.0.0.0 if no limitations on multicast source are to be implemented.
		• If you want to establish a source address, set the relevant address.
▶PORT	1024 to <u>49412</u> to 65535 (Setting 10670 is prohibited.)	Sets the PORT for RET2 VIDEO RX.
RET3 VIDEO RX	1	This is the setting for the return video input 3.
MCAST ADDR	239.11.0.3	Sets the multicast address for RET3 VIDEO RX.
SOURCE ADDR	0.0.0.0	Sets the transmission source IP address for RET3 VIDEO RX.
		• Set to 0.0.0.0 if no limitations on multicast source are to be implemented.
		• If you want to establish a source address, set the relevant address.
▶PORT	1024 to <u>49413</u> to 65535 (Setting 10670 is prohibited.)	Sets the PORT for RET3 VIDEO RX.
RET4 VIDEO RX		This is the setting for the return video input 4.
MCAST ADDR	239.11.0.4	Sets the multicast address for RET4 VIDEO RX.
SOURCE ADDR	0.0.0.0	Sets the transmission source IP address for RET4 VIDEO RX.
		• Set to 0.0.0.0 if no limitations on multicast source are to be implemented.
		• If you want to establish a source address, set the relevant address.
▶PORT	1024 to <u>49414</u> to 65535 (Setting 10670 is prohibited.)	Sets the PORT for RET4 VIDEO RX.
HD PROMPTER RX		This is the setting for the HD PROMPTER input.
MCAST ADDR	239.12.0.1	Sets the multicast address for HD PROMPTER RX.
SOURCE ADDR	0.0.0.0	Sets the transmission source IP address for HD PROMPTER RX.
		• Set to 0.0.0.0 if no limitations on multicast source are to be implemented.
		• If you want to establish a source address, set the relevant address.
▶PORT	1024 to <u>49421</u> to 65535 (Setting 10670 is prohibited.)	Sets the PORT for HD PROMPTER RX.
HD PROMPTER AUDI	O RX	Sets the HD PROMPTER input audio.
MCAST ADDR	239.13.0.1	Sets the multicast address for HD PROMPTER AUDIO RX.
▶SOURCE ADDR	0.0.0.0	Sets the transmission source IP address for HD PROMPTER AUDIO RX.
		• Set to 0.0.0.0 if no limitations on multicast source are to be implemented.
		• If you want to establish a source address, set the relevant address.
▶PORT	1024 to <u>49431</u> to 65535 (Setting 10670 is prohibited.)	Sets the PORT for HD PROMPTER AUDIO RX.
PGM1 AUDIO RX		This is the setting for the PGM1 input.
MCAST ADDR	<u>239.14.0.1</u>	Sets the multicast address for PGM1 AUDIO RX.
SOURCE ADDR	0.0.0.0	Sets the transmission source IP address for PGM1 AUDIO RX.
		• Set to 0.0.0.0 if no limitations on multicast source are to be implemented.
		• If you want to establish a source address, set the relevant address.
▶PORT	1024 to <u>49441</u> to 65535 (Setting 10670 is prohibited.)	Sets the PORT for PGM1 AUDIO RX.
PGM2 AUDIO RX		This is the setting for the PGM2 input.
MCAST ADDR	239.14.0.2	Sets the multicast address for PGM2 AUDIO RX.
SOURCE ADDR	0.0.0.0	Sets the transmission source IP address for PGM2 AUDIO RX.
		• Set to 0.0.0.0 if no limitations on multicast source are to be implemented.
		• If you want to establish a source address, set the relevant address.
▶PORT	1024 to <u>49442</u> to 65535 (Setting 10670 is prohibited.)	Sets the PORT for PGM2 AUDIO RX.

ltem	Setting value	Setting details
		This is the setting for the INCOM1 input
► MCAST ADDR	239.15.0.1	Sets the multicast address for INCOM1 AUDIO RX.
SOURCE ADDR	0.0.0.0	Sets the transmission source IP address for INCOM1 AUDIO RX.
POCONCERED	<u> </u>	 Set to 0.0.0.0 if no limitations on multicast source are to be implemented.
		 If you want to establish a source address, set the relevant address.
▶PORT	1024 to 49451 to 65535	Sets the PORT for INCOM1 AUDIO RX.
	(Setting 10670 is prohibited.)	
INCOM2 AUDIO RX		This is the setting for the INCOM2 input.
MCAST ADDR	239.15.0.2	Sets the multicast address for INCOM2 AUDIO RX.
▶SOURCE ADDR	<u>0.0.0.0</u>	Sets the transmission source IP address for INCOM2 AUDIO RX.
		• Set to 0.0.0.0 if no limitations on multicast source are to be implemented.
		• If you want to establish a source address, set the relevant address.
▶PORT	1024 to <u>49452</u> to 65535 (Setting 10670 is prohibited.)	Sets the PORT for INCOM2 AUDIO RX.
RET1 JPEG XS RX		Sets return JPEG XS image input 1.
▶MCAST ADDR	239.16.0.1	Sets the multicast address for RET1 JPEG XS RX.
SOURCE ADDR	0.0.0.0	Sets the transmission source IP address for RET1 JPEG XS RX.
		• Set to 0.0.0.0 if no limitations on multicast source are to be implemented.
		 If you want to establish a source address, set the relevant address.
▶PORT	1024 to <u>49461</u> to 65535	Sets the PORT for RET1 JPEG XS RX.
	(Setting 10670 is prohibited.)	
RET2 JPEG XS RX		Sets return JPEG XS image input 2.
MCAST ADDR	239.16.0.2	Sets the multicast address for RET2 JPEG XS RX.
▶SOURCE ADDR	<u>0.0.0.0</u>	Sets the transmission source IP address for RET2 JPEG XS RX.
		• Set to 0.0.0.0 if no limitations on multicast source are to be implemented.
		• If you want to establish a source address, set the relevant address.
▶PORT	1024 to <u>49462</u> to 65535	Sets the PORT for RET2 JPEG XS RX.
RET3 JPEG XS RX		Sets return JPEG XS image input 3
	239 16 0 3	Sets the multicast address for RET3 JPEG XS RX
	0.0.0.0	Sets the transmission source ID address for PET3 IDEC YS PY
SOURCE ADDR	0.0.0.0	 Set to 0.0.0.0 if no limitations on multicast source are to be implemented.
		 If you want to establish a source address, set the relevant address.
	1024 to 49463 to 65535	Sets the PORT for RET3. IPEG XS RX
FORI	(Setting 10670 is prohibited.)	
RET4 JPEG XS RX		Sets return JPEG XS image input 4.
MCAST ADDR	239.16.0.4	Sets the multicast address for RET4 JPEG XS RX.
SOURCE ADDR	0.0.0.0	Sets the transmission source IP address for RET4 JPEG XS RX.
		• Set to 0.0.0.0 if no limitations on multicast source are to be implemented.
		• If you want to establish a source address, set the relevant address.
▶PORT	1024 to <u>49464</u> to 65535 (Setting 10670 is prohibited)	Sets the PORT for RET4 JPEG XS RX.

SFP2(SECONDARY)

This is the selection screen for the SFP2(SECONDARY) menu.

- Can be set when the AK-NP701 option board is attached.
- When [SET EXECUTE] is executed after making each of the settings, [NETWORK SET EXECUTE NO/YES] is displayed. Select "YES" to confirm the settings. If you close the menu without executing [SET EXECUTE], the modified content returns to the original settings.

```
→*** SFP2(SECONDARY)(1/2) ***

MAIN
DHCP
OFF
IP ADDRESS
192.168.
0.51
PORT
SUBNETMASK
255.255.255.
0
DEFAULT GATEWAY
192.168.
0.
1
MAC ADDRESS
FF-FF-FF-FF-FF-FF
SET EXECUTE

>**** SFP2(SECONDARY)(2/2) ***
TRANSCEIVER
VENDOR NAME
VENDOR NAME
VENDOR REV
VENDOR REV
VENDOR SN
DATA CODE
TX POWER
RX POWER
```

The following information is required to configure network settings. Consult your network administrator or Internet service provider.

- IP address
- Port
- Subnet mask
- Default gateway (when using a gateway server or router)

Item	Setting value	Setting details
MAIN		
DHCP	ON OFF	Enables/disables DHCP.
▶IP ADDRESS	192.168.0.51	Sets the IP address for SFP2(SECONDARY).
▶PORT	1024 to <u>49301</u> to 65535 (Setting 10670 is prohibited.)	Sets the PORT for SFP2(SECONDARY).
SUBNETMASK	255.255.255.0	Sets the subnet mask for SFP2(SECONDARY).
DEFAULT GATEWAY	192.168.0.1	Sets the default gateway for SFP2(SECONDARY).
MAC ADDRESS	Display only	Displays the MAC address for SFP2(SECONDARY).

Item	Display description
TRANSCEIVER	Displays the transceiver specifications for the SFP module.
VENDOR NAME	Displays vendor information for the SFP module.
VENDOR PN	Displays the part number code for the SFP module.
VENDOR REV	Displays the revision code for the SFP module.
VENDOR SN	Displays the serial number of the SFP module.
DATA CODE	Displays the data code for the SFP module.
TX POWER	Displays the strength of the light being output via the SFP module.
RX POWER	Displays the strength of the light being received by the SFP module.

__ indicates factory default settings.

SFP2(SECONDARY)TX

This is the selection screen for the SFP2(SECONDARY)TX menu.

- Can be set when the AK-NP701 option board is attached.
- When [SET EXECUTE] is executed after making each of the settings, [NETWORK SET EXECUTE NO/YES] is displayed. Select "YES" to confirm the settings. If you close the menu without executing [SET EXECUTE], the modified content returns to the original settings.



indicates factory default settings.

Item	Setting value	Setting details
MAIN VIDEO TX		This is the setting for the main line output video.
▶IP ADDRESS	239.21.0.1	Sets the IP address for MAIN VIDEO TX.
▶PORT	1024 to <u>49511</u> to 65535 (Setting 10670 is prohibited.)	Sets the PORT for MAIN VIDEO TX.
JPEG XS TX	<u>`</u>	This is the setting for the JPEG XS.
▶IP ADDRESS	239.21.0.10	Sets the IP address for JPEG XS TX.
▶PORT	1024 to <u>49561</u> to 65535 (Setting 10670 is prohibited.)	Sets the PORT for JPEG XS TX.
MONITOR VIDEO TX	<u>`</u>	This is the setting for the monitor output video.
▶IP ADDRESS	239.21.0.11	Sets the IP address for MONITOR VIDEO TX.
▶PORT	1024 to <u>49512</u> to 65535 (Setting 10670 is prohibited.)	Sets the PORT for MONITOR VIDEO TX.
HD TRUNK TX	·	This is the setting for the HD TRUNK TX.
▶IP ADDRESS	239.22.0.1	Sets the IP address for HD TRUNK TX.
▶PORT	1024 to <u>49521</u> to 65535 (Setting 10670 is prohibited.)	Sets the PORT for HD TRUNK TX.
HD TRUNK AUDIO TX	<u>(</u>	This is the setting for the HD TRUNK AUDIO TX.
▶IP ADDRESS	239.23.0.1	Sets the IP address for HD TRUNK AUDIO TX.
▶PORT	1024 to <u>49531</u> to 65535 (Setting 10670 is prohibited.)	Sets the PORT for HD TRUNK AUDIO TX.
MIC1 AUDIO TX	·	This is the setting for the MIC1 output.
▶IP ADDRESS	239.24.0.1	Sets the IP address for MIC1 AUDIO TX.
▶PORT	1024 to <u>49541</u> to 65535 (Setting <u>10670</u> is prohibited.)	Sets the PORT for MIC1 AUDIO TX.
MIC2 AUDIO TX		This is the setting for the MIC2 output.
►IP ADDRESS	239.24.0.2	Sets the IP address for MIC2 AUDIO TX.
▶PORT	1024 to <u>49542</u> to 65535 (Setting 10670 is prohibited.)	Sets the PORT for MIC2 AUDIO TX.

Item	Setting value	Setting details
INCOM1 AUDIO TX		This is the setting for the INCOM1 output.
▶IP ADDRESS	239.25.0.1	Sets the IP address for INCOM1 AUDIO TX.
▶PORT	1024 to <u>49551</u> to 65535 (Setting 10670 is prohibited.)	Sets the PORT for INCOM1 AUDIO TX.
INCOM2 AUDIO TX	<u>`</u>	This is the setting for the INCOM2 output.
▶IP ADDRESS	239.25.0.2	Sets the IP address for INCOM2 AUDIO TX.
▶PORT	1024 to <u>49552</u> to 65535 (Setting 10670 is prohibited.)	Sets the PORT for INCOM2 AUDIO TX.

SFP2(SECONDARY)RX

This is the selection screen for the SFP2(SECONDARY)RX menu.

- Can be set when the AK-NP701 option board is attached.
- When [SET EXECUTE] is executed after making each of the settings, [NETWORK SET EXECUTE NO/YES] is displayed. Select "YES" to confirm the settings. If you close the menu without executing [SET EXECUTE], the modified content returns to the original settings.

→★★★ SFP2(SUD) KX(1//) ###	→★★★ SFP2(SUD) KX(2//) ¥¥¥
RET1 VIDEO RX MCAST ADDR 239.31.0.1 SOURCE ADDR 0.0.0 PORT 49611 RET2 VIDEO RX MCAST ADDR MCAST ADDR 239.31.0.2	RET3 VIDEO RX MCAST ADDR 239.31.0.3 SOURCE ADDR 0.0.0 PORT 49613 RET4 VIDEO RX 239.31.0.4
SOURCE ADDR 0. 0. 0. 0 PORT 49612	SOURCE ADDR 0. 0. 0. 0 PORT 49614
SET EXECUTE	SET EXECUTE
→*** SFP2(SCD) RX(3/7) ***	→*** SFP2(SCD) RX(4/7) ***
HD PROMPTER RX MCAST ADDR 239.32.0.1 Source Addr 0.0.0.0	PGM1 AUDIO RX MCAST ADDR 239.34.0.1 SOURCE ADDR 0.0.0.0
PORT 49621	PORT 49641
MCAST ADDR 239. 33. 0. 1	MCAST ADDR 239. 34. 0. 2
SOURCE ADDR 0. 0. 0. 0 PORT 49631	SOURCE ADDR 0. 0. 0. 0 PORT 49642
SET EXECUTE	SET EXECUTE
→*** SFP2(SCD) RX(5/7) ***	→**** SFP2(SCD) RX(6/7) ***
→*** SFP2(SCD) RX(5/7) *** INCOM1 AUDIO RX MCAST ADDR 239. 35. 0. 1 SOURCE ADDR 0. 0. 0. 0	→*** SFP2(SCD) RX(6/7) *** RET1 JPEG XS RX MCAST ADDR 239. 36. 0. 1 SOURCE ADDR 0. 0. 0. 0
→*** SFP2(SCD) RX(5/7) *** INCOM1 AUDIO RX MCAST ADDR 239. 35. 0. 1 SOURCE ADDR 0. 0. 0. 0 PORT 49651 INCOM2 AUDIO RX	→*** SFP2(SCD) RX(6/7) *** RET1 JPEG XS RX MCAST ADDR 239. 36. 0. 1 SOURCE ADDR 0. 0. 0. 0 PORT 49661 RET2 JPEG XS RX
→*** SFP2(SCD) RX(5/7) *** INCOM1 AUDIO RX MCAST ADDR 239. 35. 0. 1 SOURCE ADDR 0. 0. 0. 0 PORT 49651 INCOM2 AUDIO RX MCAST ADDR 239. 35. 0. 2	→**** SFP2(SCD) RX(6/7) **** RET1 JPEG XS RX MCAST ADDR 239. 36. 0. 1 SOURCE ADDR 0. 0. 0. 0 PORT 49661 RET2 JPEG XS RX MCAST ADDR 239. 36. 0. 2
→**** SFP2(SCD) RX(5/7) **** INCOM1 AUDIO RX MCAST ADDR 239.35.0.1 SOURCE ADDR 0.0.0.0 PORT 49651 INCOM2 AUDIO RX 239.35.0.2 SOURCE ADDR 239.35.0.2 SOURCE ADDR 0.0.0 PORT 49652	→**** SFP2(SCD) RX(6/7) **** RET1 JPEG XS RX MCAST ADDR 239.36.0.1 SOURCE ADDR 0.0.0.0 PORT 49661 RET2 JPEG XS RX MCAST ADDR MCAST ADDR 239.36.0.2 SOURCE ADDR 0.0.0 PORT 49662
→*** SFP2(SCD) RX(5/7) *** INCOM1 AUDIO RX MCAST ADDR 239. 35. 0. 1 SOURCE ADDR 0. 0. 0. 0 PORT 49651 INCOM2 AUDIO RX 239. 35. 0. 2 SOURCE ADDR 0. 0. 0. 0 PORT 49652 SET EXECUTE SET EXECUTE	→**** SFP2(SCD) RX(6/7) **** RET1 JPEG XS RX MCAST ADDR 239. 36. 0. 1 SOURCE ADDR 0. 0. 0. 0 PORT 49661 RET2 JPEG XS RX 49661 MCAST ADDR 239. 36. 0. 2 SOURCE ADDR 0. 0. 0. 0 PORT 49662 SET EXECUTE
→**** SFP2(SCD) RX(5/7) **** INCOM1 AUDIO RX MCAST ADDR 239. 35. 0. 1 SOURCE ADDR 0. 0. 0. 0 PORT 49651 INCOM2 AUDIO RX 239. 35. 0. 2 MCAST ADDR 239. 35. 0. 2 SOURCE ADDR 0. 0. 0. 0 PORT 49652 SET EXECUTE 5000000000000000000000000000000000000	→*** SFP2(SCD) RX(6/7) *** RET1 JPEG XS RX MCAST ADDR 239. 36. 0. 1 SOURCE ADDR 0. 0. 0. 0 PORT 49661 RET2 JPEG XS RX MCAST ADDR MCAST ADDR 239. 36. 0. 2 SOURCE ADDR 0. 0. 0. 0 PORT 49662 SET EXECUTE 5000000000000000000000000000000000000
→**** SFP2(SCD) RX(5/7) **** INCOM1 AUDIO RX MCAST ADDR 239. 35. 0. 1 SOURCE ADDR 0. 0. 0. 0 PORT 49651 INCOM2 AUDIO RX 239. 35. 0. 2 SOURCE ADDR 0. 0. 0. 0 PORT 49652 SET EXECUTE 0. 0. 0	<pre></pre>
<pre> →*** SFP2(SCD) RX(5/7) *** INCOM1 AUDIO RX MCAST ADDR 239. 35. 0. 1 SOURCE ADDR 0. 0. 0. 0 PORT 49651 INCOM2 AUDIO RX MCAST ADDR 239. 35. 0. 2 SOURCE ADDR 0. 0. 0. 0 PORT 49652 SET EXECUTE</pre>	<pre></pre>
→**** SFP2(SCD) RX(5/7) *** INCOM1 AUDIO RX MCAST ADDR 239. 35. 0. 1 SOURCE ADDR 0. 0. 0. 0 PORT 49651 INCOM2 AUDIO RX 239. 35. 0. 2 SOURCE ADDR 0. 0. 0. 0 PORT 49652 SOURCE ADDR 0. 0. 0. 0 PORT 49652 SET EXECUTE \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	<pre> →*** SFP2(SCD) RX(6/7) **** RET1 JPEG XS RX MCAST ADDR 239. 36. 0. 1 SOURCE ADDR 0. 0. 0. 0 PORT 49661 RET2 JPEG XS RX MCAST ADDR 239. 36. 0. 2 SOURCE ADDR 0. 0. 0. 0 PORT 49662 SET EXECUTE </pre>
→**** SFP2(SCD) RX(5/7) **** INCOM1 AUDIO RX MCAST ADDR 239. 35. 0. 1 SOURCE ADDR 0. 0. 0. 0 PORT 49651 INCOM2 AUDIO RX 239. 35. 0. 2 MCAST ADDR 239. 35. 0. 2 SOURCE ADDR 0. 0. 0. 0 PORT 49652 SET EXECUTE \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	<pre> →*** SFP2(SCD) RX(6/7) *** RET1 JPEG XS RX MCAST ADDR 239. 36. 0. 1 SOURCE ADDR 0. 0. 0. 0 PORT 49661 RET2 JPEG XS RX MCAST ADDR 239. 36. 0. 2 SOURCE ADDR 0. 0. 0. 0 PORT 49662 SET EXECUTE </pre>
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	<pre> →*** SFP2(SCD) RX(6/7) *** RET1 JPEG XS RX MCAST ADDR 239. 36. 0. 1 SOURCE ADDR 0. 0. 0. 0 PORT 49661 RET2 JPEG XS RX MCAST ADDR 239. 36. 0. 2 SOURCE ADDR 0. 0. 0. 0 PORT 49662 SET EXECUTE </pre>
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	<pre></pre>
→ *** SFP2(SCD) RX(5/7) *** INCOM1 AUDIO RX MCAST ADDR 239. 35. 0. 1 SOURCE ADDR 0. 0. 0. 0 PORT 49651 INCOM2 AUDIO RX MCAST ADDR 239. 35. 0. 2 SOURCE ADDR 0. 0. 0. 0 PORT 49652 SET EXECUTE $ → **** SFP2(SCD) RX(7/7) *** RET3 JPEG XS RX MCAST ADDR 239. 36. 0. 3 SOURCE ADDR 0. 0. 0. 0 PORT 49663 RET4 JPEG XS RX MCAST ADDR 239. 36. 0. 4 SOURCE ADDR 0. 0. 0. 0 PORT 49664$	<pre></pre>

_ indicates factory default settings.

Item	Setting value	Setting details
RET1 VIDEO RX		This is the setting for the return video input 1.
MCAST ADDR	239.31.0.1	Sets the multicast address for RET1 VIDEO RX.
SOURCE ADDR	0.0.0.0	Sets the transmission source IP address for RET1 VIDEO RX.
		• Set to 0.0.0.0 if no limitations on multicast source are to be implemented.
		• If you want to establish a source address, set the relevant address.
▶PORT	1024 to <u>49611</u> to 65535 (Setting 10670 is prohibited.)	Sets the PORT for RET1 VIDEO RX.

Item	Setting value	Setting details
RET2 VIDEO RX	ootting value	This is the setting for the return video input 2
	239 31 0 2	Sets the multicast address for RET2 VIDEO RX
		Sate the transmission source IP address for RET2 VIDEO RX
POUNCE ADDIX		Set to 0.0.0.0 if no limitations on multicast source are to be implemented
		Set to 0.0.0.0 if no initiations on manuast source are to be importanted.
N DODT	1024 to 40612 to 65535	If you want to establish a source address, set the relevant address. Sate the DORT for RET2 \/IDEO RX
PUKI	(Setting 10670 is prohibited.)	Sels the FORT for RE12 VIDEO RA.
RET3 VIDEO RX	1	This is the setting for the return video input 3.
MCAST ADDR	239.31.0.3	Sets the multicast address for RET3 VIDEO RX.
SOURCE ADDR	0.0.0.0	Sets the transmission source IP address for RET3 VIDEO RX.
		• Set to 0.0.0.0 if no limitations on multicast source are to be implemented.
		• If you want to establish a source address, set the relevant address.
▶PORT	1024 to <u>49613</u> to 65535 (Setting <u>10670</u> is prohibited.)	Sets the PORT for RET3 VIDEO RX.
RET4 VIDEO RX	1	This is the setting for the return video input 4.
▶MCAST ADDR	239.31.0.4	Sets the multicast address for RET4 VIDEO RX.
▶SOURCE ADDR	0.0 <u>.0.0</u>	Sets the transmission source IP address for RET4 VIDEO RX.
· ·		• Set to 0.0.0.0 if no limitations on multicast source are to be implemented.
		If you want to establish a source address, set the relevant address.
▶PORT	1024 to <u>49614</u> to 65535 (Setting 10670 is prohibited.)	Sets the PORT for RET4 VIDEO RX.
HD PROMPTER RX		This is the setting for the HD PROMPTER input.
▶MCAST ADDR	239. <u>32.0.1</u>	Sets the multicast address for HD PROMPTER RX.
SOURCE ADDR	0.0.0.0	Sets the transmission source IP address for HD PROMPTER RX.
· ·		• Set to 0.0.0.0 if no limitations on multicast source are to be implemented.
		 If you want to establish a source address, set the relevant address.
▶PORT	1024 to <u>49621</u> to 65535 (Setting 10670 is prohibited.)	Sets the PORT for HD PROMPTER RX.
HD PROMPTER AUDI	O RX	Sets the HD PROMPTER input audio.
►MCAST ADDR	239.33.0.1	Sets the multicast address for HD PROMPTER AUDIO RX.
SOURCE ADDR	0.0.0.0	Sets the transmission source IP address for HD PROMPTER AUDIO RX.
P 0000.002		 Set to 0.0.0.0 if no limitations on multicast source are to be implemented.
		 If you want to establish a source address, set the relevant address.
▶ PORT	1024 to 49631 to 65535	Sets the PORT for HD PROMPTER AUDIO RX.
	(Setting 10670 is prohibited.)	
PGM1 AUDIO RX		This is the setting for the PGM1 input.
MCAST ADDR	239.34.0.1	Sets the multicast address for PGM1 AUDIO RX.
SOURCE ADDR	0.0.0.0	Sets the transmission source IP address for PGM1 AUDIO RX.
		• Set to 0.0.0.0 if no limitations on multicast source are to be implemented.
		• If you want to establish a source address, set the relevant address.
▶PORT	1024 to <u>49641</u> to 65535 (Setting 10670 is prohibited.)	Sets the PORT for PGM1 AUDIO RX.
PGM2 AUDIO RX		This is the setting for the PGM2 input.
MCAST ADDR	239.34.0.2	Sets the multicast address for PGM2 AUDIO RX.
►SOURCE ADDR	0.0.0.0	Sets the transmission source IP address for PGM2 AUDIO RX.
<i>y</i> =		• Set to 0.0.0.0 if no limitations on multicast source are to be implemented.
		 If you want to establish a source address, set the relevant address.
▶PORT	1024 to <u>49642</u> to 65535 (Setting 10670 is prohibited.)	Sets the PORT for PGM2 AUDIO RX.

Item	Setting value	Setting details		
		This is the setting for the INCOM1 input		
► MCAST ADDR	239.35.0.1	Sets the multicast address for INCOM1 AUDIO RX.		
SOURCE ADDR	0.0.0.0	Sets the transmission source IP address for INCOM1 AUDIO RX.		
р		• Set to 0.0.0.0 if no limitations on multicast source are to be implemented.		
		If you want to establish a source address, set the relevant address.		
▶PORT	1024 to <u>49651</u> to 65535 (Setting 10670 is prohibited.)	Sets the PORT for INCOM1 AUDIO RX.		
INCOM2 AUDIO RX		This is the setting for the INCOM2 input.		
► MCAST ADDR	239.35.0.2	Sets the multicast address for INCOM2 AUDIO RX.		
SOURCE ADDR	0.0.0.0	Sets the transmission source IP address for INCOM2 AUDIO RX.		
		• Set to 0.0.0.0 if no limitations on multicast source are to be implemented.		
		• If you want to establish a source address, set the relevant address.		
▶PORT	1024 to <u>49652</u> to 65535 (Setting 10670 is prohibited.)	Sets the PORT for INCOM2 AUDIO RX.		
RET1 JPEG XS RX		Sets return JPEG XS image input 1.		
MCAST ADDR	239.36.0.1	Sets the multicast address for RET1 JPEG XS RX.		
SOURCE ADDR	0.0.0.0	Sets the transmission source IP address for RET1 JPEG XS RX.		
		• Set to 0.0.0.0 if no limitations on multicast source are to be implemented.		
		• If you want to establish a source address, set the relevant address.		
▶PORT	1024 to <u>49661</u> to 65535	Sets the PORT for RET1 JPEG XS RX.		
(Setting 10670 is prohibited.)		Sata ratium IDEC VS imaga input 2		
	230 36 0 2	Sets the multicast address for RET2_IPEG XS RX		
		Sets the transmission source ID address for RET2 IDEG XS RX		
POUNCE ADDIN	0.0.0.0	 Sets the fight shifts solution in address to the interval of the		
		 If you want to establish a source address set the relevant address 		
	1024 to 49662 to 65535	If you want to establish a source address, set the relevant address. Sets the PORT for RET2 .IPEG XS RX		
FOR	(Setting 10670 is prohibited.)			
RET3 JPEG XS RX		Sets return JPEG XS image input 3.		
MCAST ADDR	239.36.0.3	Sets the multicast address for RET3 JPEG XS RX.		
SOURCE ADDR	0.0.0.0	Sets the transmission source IP address for RET3 JPEG XS RX.		
		• Set to 0.0.0.0 if no limitations on multicast source are to be implemented.		
		• If you want to establish a source address, set the relevant address.		
▶PORT	1024 to <u>49663</u> to 65535 (Setting 10670 is prohibited.)	Sets the PORT for RET3 JPEG XS RX.		
RET4 JPEG XS RX		Sets return JPEG XS image input 4.		
MCAST ADDR	239.36.0.4	Sets the multicast address for RET4 JPEG XS RX.		
SOURCE ADDR	0.0.0.0	Sets the transmission source IP address for RET4 JPEG XS RX.		
		• Set to 0.0.0.0 if no limitations on multicast source are to be implemented.		
		• If you want to establish a source address, set the relevant address.		
▶PORT	1024 to <u>49664</u> to 65535 (Setting 10670 is prohibited.)	Sets the PORT for RET4 JPEG XS RX.		

NMOS SETTING

This is the selection screen for the NMOS SETTING menu.

- Can be set when the AK-NP701 option board is attached.
- When [SET EXECUTE] is executed after making each of the settings, [NETWORK SET EXECUTE NO/YES] is displayed. Select "YES" to confirm the settings. If you close the menu without executing [SET EXECUTE], the modified content returns to the original settings.

·			
	→*** NMOS SETTING	***	
	NMOS CONTROL STÁTUS PORT(IS-04)	ON UNREGISTERED 50040	
	PORT(IS-05) RDS IP ADDR	50050	
	LABEL SETTING LABEL PREFIX	AUTO UCU700_XXXX	
	DISCOVERY	uniDNS	
	SET EXECUTE		

_ indicates factory default settings.

Item	Setting value	Setting details
NMOS CONTROL	ON OFF	Enables/disables the NMOS function.
STATUS	UNREGISTERED REGISTERING REGISTERED P2P MODE (Display only)	Displays the NMOS operation status, such as RDS connection status.
PORT(IS-04)	1024 to <u>50040</u> to 65535	Sets the port number on the camera for IS-04 Node API.
PORT(IS-05)	1024 to <u>50050</u> to 65535	Sets the port number on the camera for IS-05 Connection API.
RDS IP ADDR	Display only	Displays the IP address automatically discovered.
RDS PORT	Display only	Displays the port number automatically discovered.
LABEL SETTING	AUTO MANUAL	AUTO: It is fixed to UCU700_**** ("****" is the last four digits of the MAC address). MANUAL: Text can be set in LABEL PREFIX.
LABEL PREFIX	Maximum 16 characters (alphanumeric characters, spaces, ! # % () + , / = [] _) (Factory setting: UCU700_**** ("****" is the last four digits of the MAC address))	Sets the prefix appended which is shared with NMOS resource names on this unit.
DISCOVERY	uniDNS mDNS	Sets the method for NMOS resource discovery.

NDI/SRT SETTING

This is the selection screen for the NDI/SRT SETTING menu.

- Can be set when the AK-NP703 option board is attached.
- When [SET EXECUTE] is executed after making each of the settings, [NETWORK SET EXECUTE NO/YES] is displayed. Select "YES" to confirm the settings. If you close the menu without executing [SET EXECUTE], the modified content returns to the original settings.

→*** NDI/SRT	SETTING ***
DHCP IP ADDR SUBNETMASK DEFAULT GATE MAC ADDRESS	0FF 192.168. 0. 52 255.255.255. 0 WAY 192.168. 0. 1 FF-FF-FF-FF-FF-FF
SET EXECUTE	

The following information is required to configure network settings. Consult your network administrator or Internet service provider.

- IP address
- Subnet mask
- Default gateway (when using a gateway server or router)

__ indicates factory default settings.

ltem	Setting value	Setting details
DHCP	ON OFF	Enables/disables DHCP.
IP ADDR	192.168.0.52	Sets the IP address for NDI/SRT.
SUBNETMASK	255.255.255.0	Sets the subnet mask for NDI/SRT.
DEFAULT GATEWAY	192.168.0.1	Sets the default gateway for NDI/SRT.
MAC ADDRESS	Display only	Displays the MAC address for NDI/SRT.

DNS SETTING

This is the selection screen for the DNS SETTING menu.

- Can be set when the AK-NP703 option board is attached.
- When [SET EXECUTE] is executed after making each of the settings, [NETWORK SET EXECUTE NO/YES] is displayed. Select "YES" to confirm the settings. If you close the menu without executing [SET EXECUTE], the modified content returns to the original settings.

					1
\rightarrow *** DNS SETTING ***					
DNS PRIMÁRY SECONDÁRY DOMÁIN	0. 0.	0. 0.	MANU 0. 0.	A L 0 0	
SET EXECUTE					

The following information is required to configure network settings. Consult your network administrator or Internet service provider.

Primary server address, secondary server address, and domain for DNS (when using DNS)

__ indicates factory default settings.

Item	Setting value	Setting details
DNS	AUTO MANUAL	Sets the method for acquiring the address for the DNS Server.
▶PRIMARY	0.0.0.0	Sets the DNS PRIMARY address.
▶SECONDARY	0.0.0.0	Sets the DNS SECONDARY address.
DOMAIN	Display only	The value allocated by the DHCP server is displayed.

MAINTENANCE

This is the selection screen for the MAINTENANCE menu.

```
→** MAINTENANCE **
START UP
SETUP
ND/CC NAME
CCU VERSION
OPTION VERSION
PM VIEW SETTING
PM OPERATION STATUS
SYSTEM
SD CARD
```

Item	Content	Details page
START UP	Display the START UP menu.	➡ "START UP" (see page 87)
SETUP	Display the SETUP menu.	➡ "SETUP" (see page 87)
ND/CC NAME*1	Display the ND/CC NAME menu.	➡ "ND/CC NAME" (see page 89)
CCU VERSION	Display the CCU VERSION menu.	➡ "CCU VERSION" (see page 90)
OPTION VERSION	Display the OPTION VERSION menu.	"OPTION VERSION" (see page 90)
PM VIEW SETTING	Display the PM VIEW SETTING menu.	"PM VIEW SETTING" (see page 91)
PM OPERATION STATUS	Display the PM OPERATION STATUS menu.	"PM OPERATION STATUS" (see page 92)
SYSTEM*2	Display the SYSTEM menu.	➡ "SYSTEM" (see page 93)
SD CARD*2	Display the SD CARD menu.	➡ "SD CARD" (see page 95)

*1: Displayed as "ND NAME" when AK-UC3300 and AK-PLV100 are connected.

*2: Cannot be selected until unit startup is complete (i.e., about 1 minute after turning the power on).

START UP

This is the selection screen for the START UP menu.

→*** START UP ***	
CAM POWER VF POWER	O N O N
CONNECT MODE	UC4000/UC3300

_ indicates factory default settings.

Item	Setting value	Setting details
CAM POWER	OFF <u>ON</u> REMOTE	Set the control of the camera's power that is to be performed when the unit's power is turned on. OFF The camera's power will not come on even when the unit's power is turned on. In this case, "HEAD POWER" on the operation panel of the ROP or [CAMERA POWER] on the unit must be set to ON. ON
		REMOTE Turns on in the same state as when the CCU power was turned OFF.
VF POWER	OFF ON REMOTE	Set the control of the viewfinder's power that is performed when the unit's power is turned on. OFF The viewfinder's power will not come on even when the unit's power is turned on. In this case, "VF POWER" must be set to ON on the operation panel of the ROP. ON Turning on the power of this unit also turns on the power of the viewfinder. REMOTE Turns on in the same state as when the CCU power was turned OFF.
CONNECT MODE	UC4000/UC3300 PLV100	Set the unit to connect to AK-UC4000, AK-UC3300, or AK-PLV100 when turning on the power of this unit. UC4000/UC3300 Connect to the AK-UC4000 or AK-UC3300. PLV100 Connect to the AK-PLV100.

SETUP

This is the selection screen for the SETUP menu.

→*** SETUP ***	
IRIS SCALE	FULL
CABLE CONNECTION	HYBRID
USER BUTTON1	CHARA
USER BUTTON2	MENU/USER1 LOCK
TALLY	MAKE
PANEL LED BRIGHT	2
LAN TRUNK	1Gbps
PM PRIORITY	CHAR
PM STATUS DISP MODE	NORMAL
MENU TRANSPARENCY	100%

____ indicates factory default settings.

Item	Setting value	Setting details
IRIS SCALE	FULL	Set the IRIS display range of the status display screen.
	2STOP	

_ indicates factory default settings.

Item	Setting value	Setting details
CABLE CONNECTION	HYBRID	Sets the cable used to connect the camera.
	FIBER	
		Select this when connecting the camera using an optical liber multi cable.
		FIBER
		Select this when connecting the camera using only optical fiber.
		When [FIBER] is selected, power will not be supplied to the camera. In addition, the
		"OPEN" and "SHORT" errors will not be displayed.
USER BUTTON1	NONE	Sets the functionality to assign to the USER1 button on the LCD panel.
	CHARA	NONE
	BARS	No assignment
		CHARA
	IIS FLAT	Character display, operation
		PARC
		PM/NORM selection for SDI8 OUT
		HS PLAY
		Slow playback from SDI8
USER BUTTON2	NONE	Sets the functionality to assign to the USER2 button on the LCD panel.
	CHARA	NONE
	MENU/USERI LOCK	No assignment
	CLEAN	CHARA
	HS PLAY	Character display, operation
		Invalidate [MENI]] button USER1 button
		(Function is assigned, but nothing happens when button pressed.)
		Color bar ON/OEE
		CLEAN
		PM/NORM selection for SDI8 OUT
		HS PLAY
		Slow playback from SDI8
TALLY	MAKE	Select the input format for the TALLY signal.
	V	MAKE
		When the circuit between the TALLY IN H terminal and TALLY IN C terminal is
		OPEN, TALLY is OFF, and when it is MAKE, TALLY is ON.
		• The TALLY IN H terminal is internally pulled up to +5 V with a 2.2 K resistor
		through a protective diode. The maximum current is 20 mA or less.
		V
		When voltage is applied to the TALLY IN H terminal, TALLY is ON, and when voltage
		is not applied, TALLY is OFF. Connect TALLY IN C to GND.
		 A resistor of about 12.4 kΩ is inserted between TALLY IN H and TALLY IN C.
		The maximum voltage that can be applied is 24 v, and the maximum current is
PANEL LED BRIGHT	1 to 2 to 4	Sets the brightness of the front nanel indicators
LAN TRUNK	-	Sets the communication speed for when LAN TRUNK is used
PM PRIORITY	CHAR	Set the display priority during PM VIEW.
	MENU	
		Set the warning display to the highest priority
		During PM VIEW, MENU display is prioritized with MENU ON.
MODE		Secure Fivi STATUS Ulspray.
MODE		NORMAL
		Display the camera and CCU setting statuses and the optical fiber information. (Displays
		STATUST 10 6.)
		FULL
		Additionally, display the STATUS for SFP and ST2110 output. (Displays STATUS1 to 17.)
		Display up to STATUS6 if AK-NP701 (ST2110 option) is not attached during this
MENII	100%	setting is configured.
	50%	occure image calisparency raio for the menu display area.
INANGFARENGI	25%	

ND/CC NAME

This is the selection screen for the ND/CC NAME menu.

ማቀምም በሀገርር በለጠር ጥጥጥ	
NDFILTER_1NAME1NDFILTER_2NAME2NDFILTER_3NAME3NDFILTER_4NAME4NDFILTER_5NAME5CCFILTER_1NAME4CCFILTER_2NAME6CCFILTER_3NAME6CCFILTER_5NAME6CCFILTER_5NAME6CCFILTER_5NAME6CCFILTER_5NAME6	L 23 4 5 A B C D E

Item	Setting value	Setting details
ND FILTER_1 NAME	5 characters (Factory setting: 1)	Set the name (maximum 5 characters) of ND filter 1 (CAP). The name set here is displayed in the status display (STATUS2).
		Characters which can be used: Alphanumeric characters, spaces, ! " # \$ % & ' () * + , /
ND FILTER_2 NAME	5 characters (Factory setting: 2)	Set the name (maximum 5 characters) of ND filter 2 (CLEAR). The name set here is displayed in the status display (STATUS2).
		Characters which can be used: Alphanumeric characters, spaces, ! " # \$ % & ' () * + , /
ND FILTER_3 NAME	5 characters (Factory setting: 3)	Set the name (maximum 5 characters) of ND filter 3 (1/4). The name set here is displayed in the status display (STATUS2).
		Characters which can be used: Alphanumeric characters, spaces, ! " # \$ % & ' () * + , /
ND FILTER_4 NAME	5 characters (Factory setting: 4)	Set the name (maximum 5 characters) of ND filter 4 (1/16). The name set here is displayed in the status display (STATUS2).
		Characters which can be used: Alphanumeric characters, spaces, ! " # \$ % & ' () * + , /
ND FILTER_5 NAME	5 characters (Factory setting: 5)	Set the name (maximum 5 characters) of ND filter 5 (1/64). The name set here is displayed in the status display (STATUS2).
		Characters which can be used: Alphanumeric characters, spaces, ! " # \$ % & ' () * + , /
CC FILTER_1 NAME	5 characters (Factory setting: A)	Set the name (maximum 5 characters) of CC filter 1 (CROSS). The name set here is displayed in the status display (STATUS2).
		Characters which can be used: Alphanumeric characters, spaces, ! " # \$ % & ' () * + , /
CC FILTER_2 NAME	5 characters (Factory setting: B)	Set the name (maximum 5 characters) of CC filter 2 (3200K). The name set here is displayed in the status display (STATUS2).
		Characters which can be used: Alphanumeric characters, spaces, ! " # \$ % & ' () * + , /
CC FILTER_3 NAME	5 characters (Factory setting: C)	Set the name (maximum 5 characters) of CC filter 3 (4300K). The name set here is displayed in the status display (STATUS2).
		Characters which can be used: Alphanumeric characters, spaces, ! " # \$ % & ' () * + , /
CC FILTER_4 NAME	5 characters (Factory setting: D)	Set the name (maximum 5 characters) of CC filter 4 (6300K). The name set here is displayed in the status display (STATUS2).
		Characters which can be used: Alphanumeric characters, spaces, ! " # \$ % & ' () * + , /
CC FILTER_5 NAME	5 characters (Factory setting: E)	Set the name (maximum 5 characters) of CC filter 5 (DF0). The name set here is displayed in the status display (STATUS2).
		Characters which can be used: Alphanumeric characters, spaces, ! " # \$ % & ' () * + , /

NOTE

- When AK-UC3300 and AK-PLV100 are connected, the display for "ND/CC NAME" changes to "ND NAME" and [ND FILTER 5 NAME] is not displayed.
- When AK-UC3300 and AK-PLV100 are connected, [CC FILTER_1 NAME] to [CC FILTER_5 NAME] are not displayed.

CCU VERSION

This is the selection screen for the CCU VERSION menu.

→*** CCU VERSION(1/2) ***) (
CCU VERSION	Ш	МА
CPU FPGA LOGIC	Ш	RE
CPU FPGA RTOS	Ш	RE
CPU FPGA LINUX	Ш	RE
01.00-000-00.00 CPU FPGA NET MB	Ш	UH
01.00-000-00.00 CPU FPGA CONT MB	Ш	IN
01.00-000-00.00	J	

→*** CCU VERSION(2/2	:) ***
MAIN FPGA	
RET FPGA 10G	01.00-000-00.00
	01.00-000-00.00
KEI FPGA 25G	01.00-000-00.00
RET FPGA LANT MB	01 00-000-00 00
UHD FPGA	
U TNCOM EPGA	01.00-000-00.00
	01.00-000-00.00

Item	Setting value	Setting details
CCU VERSION	Display only	Displays the version of the entire unit.
CPU FPGA LOGIC	Display only	Displays the CPU FPGA version.
CPU FPGA RTOS	Display only	Displays the software version of the CPU RTOS.
CPU FPGA LINUX	Display only	Displays the software version of the CPU LINUX.
CPU FPGA NET MB	Display only	Displays the CPU Network MicroBraze version.
CPU FPGA CONT MB	Display only	Displays the CPU Control MicroBraze version.
MAIN FPGA	Display only	Displays the MAIN FPGA version.
RET FPGA 10G	Display only	Displays the RETURN FPGA (10G) version.
RET FPGA 25G	Display only	Displays the RETURN FPGA (25G) version.
RET FPGA LANT MB	Display only	Displays the RETURN LANTRUNK MicroBraze version.
UHD FPGA	Display only	Displays the UHD FPGA version.
INCOM FPGA	Display only	Displays the INCOM FPGA version.

OPTION VERSION

This is the selection screen for the OPTION VERSION menu.

→**** OPTION	VERSION(1/2) ***	
MOIP VERSI	ON	
MOIP FPGA	01.00-000-00. NC 10G	00
MOIP FPGA	JX 10G 01.00-000-00.	00
MOIP FPGA	NC 25G 01.00-000-00.	00
MOIP FPGA	JX 25G 01.00-000-00	00
MOIP FPGA	MB	00
	01.00-000-00.	00

→**** OPTION VERS	ION(2/2) ***
CODEC VERSION	01 00-000-00 00
DANTE VERSION	01.00-000-00.00

Item	Setting value	Setting details	
MOIP VERSION	Display only	Displays the MOIP version.	
MOIP FPGA NC 10G	Display only	Displays the version of the MOIP FPGA (uncompressed 10G).	
MOIP FPGA JX 10G	Display only	Displays the MOIP FPGA (JPEG XS 10G) version.	
MOIP FPGA NC 25G	Display only	Displays the version of the MOIP FPGA (uncompressed 25G).	
MOIP FPGA JX 25G	Display only	Displays the MOIP FPGA (JPEG XS 25G) version.	
MOIP FPGA MB	Display only	Displays the MOIP MicroBraze version.	
CODEC VERSION	Display only	Displays the CODEC version.	
DANTE VERSION	Display only	Displays the DANTE version.	

PM VIEW SETTING

This is the selection screen for the PM VIEW SETTING menu.

→*** PM VIEW SETTING(1/2) ***
CAMERA No.	01
SYSTEM FORMAT	01
FORMAT MODE	01
SCENE FILE No.	01
SHUTTER	01
ND/CC FILTER	01
EXTENDER INFO	01
IRIS	01
IRIS LEVEL	01
IRIS SCALE	FULL
COLOR TEMP VALUE	01

→*** PM VIEW	SETTING(2/2)	***	
TÁLLY INFO F.DROP ZOOM POSITI FOCUS POSIT OPT_CAM OPT_CCU COLORIMETRY	ON ION	0 N 0 F F 0 N 0 N 0 N 0 N 0 N	

_

____ indicates factory default settings.

Item	Setting value	Setting details
CAMERA No.	ON OFF	Set display of the camera number on the picture monitor to ON or OFF.
SYSTEM FORMAT	ON OFF	Set display of the system format on the picture monitor to ON or OFF.
FORMAT MODE	ON OFF	Set display of the format mode on the picture monitor to ON or OFF.
SCENE FILE No.	ON OFF	Set display of the scene file number on the picture monitor to ON or OFF.
SHUTTER	ON OFF	Set display of the shutter value on the picture monitor to ON or OFF.
ND/CC FILTER	ON OFF	Set display of the ND/CC filter name to the picture monitor to ON or OFF.
EXTENDER INFO	ON OFF	Set display of extender information (extender and digital extender) on the picture monitor to ON or OFF.
IRIS	ON OFF	Set display of the IRIS F value on the picture monitor to ON or OFF.
IRIS LEVEL	ON OFF	Set display of the IRIS level bar on the picture monitor to ON or OFF.When [OFF] is set, the IRIS menu is not displayed on the picture monitor.
IRIS SCALE	FULL 2STOP	Set the IRIS display range of the status display screen.
COLOR TEMP VALUE	ON OFF	Set display of the color temperature on the picture monitor to ON or OFF.
TALLY INFO	ON OFF	Set display of the tally information on the picture monitor to ON or OFF.
F.DROP	ON OFF	Shows/hides the F.DROP that is notified by the camera, on the picture monitor.
ZOOM POSITION	ON OFF	Set display of the zoom position information, which is notified by the camera, on the picture monitor to ON or OFF.
FOCUS POSITION	ON OFF	Set display of the focus position information, which is notified by the camera, on the picture monitor to ON or OFF.
OPT_CAM	ON OFF	Set display of the optical signal level (camera side) on the picture monitor to ON or OFF.
OPT_CCU	ON OFF	Set display of the optical signal level (CCU side) on the picture monitor to ON or OFF.
COLORIMETRY	ON OFF	Set display of COLORIMETRY (Y/C conversion coefficient), which is notified by the camera, on the picture monitor to ON or OFF.

PM OPERATION STATUS

This is the selection screen for the PM OPERATION STATUS menu.

→*** PM OPERATION STATUS	***
STATUS DISPLAY TIME	4
MASTER GAIN	O N
LENS EXTENDER	ON ON
SCENE FILE	ON ON
AUTO OPERATION STATUS	O N O N

_ indicates factory default settings.

_

Item	Setting value	Setting details
STATUS DISPLAY TIME	0	Set display of the status display time on the picture monitor to ON or OFF.
	2	
	4	
MANUAL OPERATION STATUS		
MASTER GAIN	ON OFF	Set display of picture monitor operation display item (MASTER GAIN) ON/OFF.
▶ SHUTTER	ON OFF	Set display of the picture monitor operation display item (SHUTTER) to ON or OFF.
LENS EXTENDER	ON OFF	Set display of the picture monitor operation display item (LENS EXT) to ON or OFF.
▶ FILTER	ON OFF	Set display of picture monitor operation display item (FILTER) to ON or OFF.
SCENE FILE	ON OFF	Set display of picture monitor operation display item (SCENE FILE) to ON or OFF.
▶ REF LOAD	ON OFF	Set display of picture monitor operation display item (REF LOAD) ON/OFF.
AUTO OPERATION STATUS	ON OFF	Set display of picture monitor operation display item (AUTO) to ON or OFF.

SYSTEM

This is the selection screen for the SYSTEM menu.

→*** SYSTEM ***	
INITIALIZE FACTORY INITIALIZE CCU CUSTOM DATA LOAD CCU CUSTOM DATA SAVE ROP CONNECT SERIAL ROP CONNECT NETWORK	NO? NO? CURRENT

___ indicates factory default settings.

Item	Setting value	Setting details
INITIALIZE	NO?	Return the menu items to the factory default values.
	YES?	"Initialize the Unit Settings (INITIALIZE)" (see page 94)
FACTORY INITIALIZE	NO?	Return the unit's settings to the factory default values.
	YES?	Select [YES?] and press the [SELECT] dial to start initialization.
		 Controls from the camera, ROP, or MSU cannot be performed during initialization.
CCU CUSTOM DATA LOAD	NO? YES?	Call the CCU management data stored in the CCU.
CCU CUSTOM DATA SAVE	CURRENT	Store the setting data managed by the CCU inside the CCU.
	FACTORY	The items that are stored are the same as the items set with [FACTORY
	CANCEL	INITIALIZE].
		CURRENT
		Saves the values currently set for the CCU.
		FACTORY
		Saves the values set with [FACTORY INITIALIZE].
ROP CONNECT SERIAL	CONNECT	Displays the status of ROP connection (serial connection) to the unit.
		CONNECT
		Connection is to the [ROP] connector.
		No serial connection.
ROP CONNECT NETWORK	CONNECT	Displays the status of ROP connection (IP connection) to the unit.
		CONNECT
		Connection is by IP connection.
		No IP connection.

Initialize the Unit Settings (INITIALIZE)

Initialization Procedure

- 1. Turn the [SELECT] dial to move the cursor to [INITIALIZE], and then press the [SELECT] dial.
- 2. Turn the [SELECT] dial to select [YES?], and then press the [SELECT] dial. Initialization begins.

Data Initialized

✓: Initialized ×: Not initialized

CCU menu	INITIALIZE	FACTORY INITIALIZE
OPERATION	\checkmark	\checkmark
AUDIO	\checkmark	\checkmark
NETWORK	×	\checkmark
MAINTENANCE		
START UP	✓ (excluding [CONNECT MODE])	\checkmark
▶ SETUP	\checkmark	\checkmark
▶ ND/CC NAME	✓	\checkmark
► CCU VERSION	×	×
▶ OPTION VERSION	×	×
▶ PM VIEW SETTING	\checkmark	\checkmark
▶ PM OPERATION STATUS	\checkmark	\checkmark
▶ SYSTEM	×	×
▶ SD CARD	×	x

SD CARD

This is the selection screen for the SD CARD menu.

The function is executed when you select [YES?] at each of the items.

→*** SD CARD ***	
DATA SAVE DATA LOAD LOG FILE DOWNLOAD UPDATE CARD FORMAT OSS LICENCE	N 0 ? N 0 ? N 0 ? N 0 ? N 0 ? N 0 ?
<u>_</u>	

_ indicates factory default settings.

Item	Setting value	Setting details
DATA SAVE	NO? YES?	Save the unit's setting information to memory card.
DATA LOAD	NO? YES?	Load the unit's setting information saved in memory card to this unit.
LOG FILE DOWNLOAD	NO? YES?	Save CCU (this unit) log information to memory card.
UPDATE	NO? YES?	Upgrade the unit's software or programs (FPGA) with files saved to the memory card.
CARD FORMAT	NO? YES?	 Initialize the memory card. Initialization may take about 5 minutes. Be sure to execute initialization after confirming the data because any data that is deleted by the initialization cannot be recovered.
OSS LICENCE	NO? YES?	Record OSS license terms to an SD card. The file generated will be named "LICENSE1. TXT", "LICENSE2.TXT", "LICENSE3.TXT".

Data Stored/Loaded

The following data is stored/loaded.

- Items in the [OPERATION] menu
- Items in the [MAINTENANCE] menu
 (The [CCU VERSION] menu, [OPTION VERSION] menu, [SYSTEM] menu, and [SD CARD] menu are excluded.)
- Items in the [SYSTEM] menu

SD Card Error Messages

When an error occurs during processing of SD card menu items, the following messages are displayed.

Messages	Content and remedy
LOAD ERROR	Unable to read from the memory card.
	Data written with other than this unit cannot be read.
WRITE ERROR	Unable to write to the memory card.
	• The memory card is likely to be defective. Replace the memory card.

Saving and loading reference files and scene files

When reference files and scene files are saved or loaded from the ROP, the following data applies.

Мори	Saved / Io	aded data
wenu	Reference file	Scene file
AUDIO	MIC OUT CCU INTERCOM TALK CCU INTERCOM RECEIVE STANDBY INTERCOM COMMUNICATION INTERCOM1 INTERCOM2 PGM	-
MAINTENANCE	ND/CC NAME	-

Web Screen

Network settings

Software

Download EasyIP Setup Tool Plus from the following website and then install them. [Windows]

- Download URL
- https://pro-av.panasonic.net/en/

EasyIP Setup Tool Plus

This software sets the unit's network settings.

◆ "Using EasyIP Setup Tool Plus to set the unit's settings" (see page 97)

Using EasyIP Setup Tool Plus to set the unit's settings

The settings related to the unit's network can be set using the supplied EasyIP Setup Tool Plus.

When multiple of this unit are to be set, they each need to be set individually.

If setting cannot be done using the EasyIP Setup Tool Plus, make the individual settings for this unit and the personal computer in [NETWORK] > [NDI/SRT SETTING] in the CCU menu.

"NDI/SRT SETTING" (see page 84)

NOTE

- If, after the network settings have been set, another device on the same network has the same IP address, the network operations will not be performed properly. Set the IP address in such a way that it does not duplicate an existing IP address.
- Do not set network settings from a multiple number of EasyIP Setup Tool Plus programs at the same time for a single camera. When connected from more than one PC, the settings of this unit can only be changed from the PC that was connected first.
- EasyIP Setup Tool Plus cannot be used from a different subnet via a router.
- Changes to the settings of this unit using the EasyIP Setup Tool Plus are performed with authentication from an account in the web screen, therefore changes are not possible if the initial account for the web screen is not yet set.

➡ "Displaying the web screen using a personal computer" (see page 99)

Setting Procedure

- 1. Start the EasyIP Setup Tool Plus.
- 2. Click the [Search] button.



• You can set the Network to be used for the search in the selection menu at the top of the screen.

3. Select the camera to configure and click the [Network Settings] button.

AM-0E150									
		NA Address						rator Regis	
0 🖬 O									
Settings Web CUI									
	Q Sean	- 👤	Firmware						
			Upsale						

- The web screen for the selected camera is displayed when you click the [Web GUI] button.
- 4. Input the network items, and click the [Setup] button.

Network Settings			×
Title	AW-UE150		
Port No.	80		
IPv4 Network			
DHCP	On	● Off	
IPv4 Address	192.168.0.10		
Subnet Mask	255.255.255.0	D	
Default Gateway	192.168.0.1		
DNS	Auto	Manual	
Primary Server Address	0.0.0.0		
Secondary Server Address	0.0.0.0		
S	etup	Cancel	

- Port No. settings are not supported, so do not set.
- 5. Enter the user name and password registered in the web screen, then click the [OK] button.

User ID			
Password			
	ок	Cancel	

- Enter the user name and password that was set for the initial account or was set in the User management screen [USER MNG.] in the web screen.
 - ➡ "Displaying the web screen using a personal computer" (see page 99)
 - ➡ "User management screen [USER MNG.]" (see page 140)
- After the [OK] button is clicked, it takes about 2 minutes for the settings in the unit to be completed. If this unit is turned off
 or the LAN cable is disconnected before the settings are completed, the settings will be invalidated. In this case, repeat
 the steps to set the settings.

NOTE

- The unit does not support IPv6.
- This unit does not support "Administrator Registration", and "Firmware Update" from EasyIP Setup Tool Plus.
- When a firewall (including software) has been introduced, enable access to all the UDP ports.
- For details about EasyIP Setup Tool Plus, refer to the Help page.

Displaying the web screen

Connect the LAN connector on this unit and a personal computer and make a variety of settings in a web browser.

Use a LAN crossover cable to directly connect the LAN connector on this unit and a personal computer. When connecting via a switching hub, etc., use a LAN straight cable.

Notice regarding the Web screen

IP address and subnet mask

Select an IP address for the personal computer within the private address range while ensuring that it is different from the address of the unit. Set the subnet mask to the same address as the unit.

• Unit's IP address and subnet mask (factory settings)

IP address	192.168.0.20
Subnet mask	255.255.255.0

Personal computer environment required to display the Web screen

For details on the personal computer environment required to display the Web screen, refer to following page.

"Personal computer requirements" (see page 10)

Displaying the web screen using a personal computer

Screens from Windows (Microsoft Edge) are used as examples in this manual. There will be some differences in how the screen appears in other browsers, but the procedures will be the same.

1. Start the web browser of the personal computer.

Use one of the web browsers below depending on the operating system installed in the personal computer.

Installed OS	Web browser
Windows	Microsoft Edge
	Google Chrome
macOS	Safari

- 2. Enter the IP address you configured on the EasyIP Setup Tool Plus in the address bar of the web browser.
 - Example of input http://registered URL http://192.168.0.20



 If this unit is within a local network, make the settings for the proxy server from the web browser so that the proxy server is not used for the local address.

3. Sets the initial account.

If the web screen is set to be shown in the initial state, the initial account setting screen is displayed.

Set the user name and password.



NOTE

- Do not use a string of characters that can be easily guessed by a third party.
- Change your password regularly.
- Use at least 3 of the following 4 character types in a password of at least 8-characters in length.
 - Upper case alphabet
 - Lower case alphabet
 - Numbers
 - Symbols (! # \$ % ' () * + , . / ? @ [] ^ ` ~)
- If a password is set that does not follow the above policy, the user assumes responsibility for operation, with an adequate understanding of the security risks to the installation environment, etc.
- A warning message is displayed if you set a password that does not meet the recommended setting policy. To change the password, click the [Back] button and enter another password.

To continue the settings after understanding the risk to security, click [Continue] and then complete the settings.

 If you have forgotten the account information you set, execute [SYSTEM] > [FACTORY INITIALIZE] in the CCU menu, and reset the user information used for network connections.

The settings for this unit return to the factory settings when you execute [FACTORY INITIALIZE].

"Initialize the Unit Settings (INITIALIZE)" (see page 94)



4. Complete registration of the initial account.

The following screen indicating registration completion is displayed after registration of the initial account is complete.

After about 10 seconds of showing this completion screen, the settings screen is automatically shown. If the screen does not transition to the settings screen even after 10 seconds have elapsed, click on the link in "please click here" to move to the settings screen manually.

This completes the procedures for registering the initial account.



5. Display the settings screen.

The web screen is displayed.

In the initial screen, the Product information screen [PRODUCT INFO.] is displayed, so switch if necessary.

AK-UCU700			
SETUP MENU	PRODUCT INFO.		
PRODUCT INFO. SYSTEM MODE		AK-UCU700	SET
NETWORK ROP ACCOUNT SETTING		AK-UCU700	
USER MNG.		00000000	
	FIRMWARE VERSION		
	CCU VERSION	01.6D-000-01.00	
		00.16-000-00.00	
	CPU FPGA RTOS	00.16-000-00.00	

Logging into the web screen

When the web screen is displayed, you need to enter the account information.

NOTE

- The account input screen appears as a pop-up window in the web browser.
- Correctly enter the user name and password that were previously registered.
- It is recommended to regularly change the password.

Web setting screen

This screen enables you to make a variety of settings for this unit.

	AK-UCU700					
		PRODUCT INFO.				
2	PRODUCT INFO. SYSTEM MODE		AK-UCU700	s	ET	1
45	ROP ACCOUNT SETTING	MODEL NO.	AK-UCU700			
F		SERIAL NO.	00000000			
		FIRMWARE VERSION				
		CCU VERSION	01.6D-000-01.00			
		CPU FPGA LOGIC	00.16-000-00.00			
		CPU FPGA RTOS	00.16-000-00.00			
		CPU FPGA LINUX	00.16-000-00.00			
		CPU FPGA NET MB	00.04-000-00.00			
1	Main area	The menu screen appears.				
2	Product information button Click the button to display the Product information screen [PRODUCT INFO.].					
	[PRODUCT INFO.]	➡ "Product information screen [PRODUCT INFO.]" (see page 103)				
3	View system settings button	Click the button to display	the View system settings	screen [SYS	TEM MODE].	
	[SYSTEM MODE]	➡ "View system settings screen [SYSTEM MODE]" (see page 105)				
4	Network settings button	Click the button to display the Network settings screen [NETWORK].				
[NETWORK]		➡ "Network settings screen [NETWORK]" (see page 112)				
5	ROP account settings button	Click the button to display	the ROP account settings	s screen [ROF	PACCOUNT SE	TTING].
	[ROP ACCOUNT SETTING]	➡ "ROP account settings screen [ROP ACCOUNT SETTING]" (see page 139)				
6	User management settings	Click the button to display the User management screen [USER MNG.].				
button [USER MNG.]		➡ "User management screen [USER MNG.]" (see page 140)				

NOTE

• If setting values are changed from a menu or another web browser while the settings menu is being displayed, there may be a mismatch between the setting values and the displayed values. If this occurs, refresh the screen displaying the settings menu in the web browser.

Product information screen [PRODUCT INFO.]

The versions of the unit's software can be checked on this screen.

The [MODEL NO.], [SERIAL NO.], [FIRMWARE VERSION] and other information about the unit is displayed.

PRODUCT INFO.	
TITLE	AK-UCU700 SET
MODEL NO.	AK-UCU700
SERIAL NO.	00000000
FIRMWARE VERSION	
CCU VERSION	01.6D-000-01.00
CPU FPGA LOGIC	00.16-000-00.00
CPU FPGA RTOS	00.16-000-00.00
CPU FPGA LINUX	00.16-000-00.00
CPU FPGA NET MB	00.04-000-00.00
CPU FPGA CONT MB	00.01-000-00.00
MAIN FPGA	00.09-000-00.00
RET FPGA 10G	00.16-000-00.00
RET FPGA 25G	00.01-000-00.00
RET FPGA LANT MB	00.02-000-00.00
UHD FPGA	00.04-000-00.00
INCOM FPGA	01.00-000-01.00
MOIP VERSION	00.58-000-00.00
MOIP FPGA NC 10G	00.15-000-00.00
MOIP FPGA JX 10G	00.15-000-00.00
MOIP FPGA NC 25G	00.15-000-00.00
MOIP FPGA JX 25G	00.15-000-00.00
MOIP FPGA MB	00.04-000-00.00
CODEC VERSION	00.06-000-00.00
DANTE VERSION	00.06-000-00.00

_ indicates factory default settings.

Item	Display description
TITLE	AK-UCU700 Set the camera name displayed in the header of the web screen and in EasyIP Setup Tool Plus.
MODEL NO.	Display the unit's model number.
SERIAL NO.	Displays the unit's serial number.
FIRMWARE VERSION	CCU VERSION Displays the overall version of the unit.
	CPU FPGA LOGIC Displays the CPU FPGA version.
	CPU FPGA RTOS Displays the software version of the CPU RTOS.
	CPU FPGA LINUX Displays the software version of the CPU LINUX.
	CPU FPGA NET MB Displays the CPU Network MicroBraze version.
	CPU FPGA CONT MB Displays the CPU Control MicroBraze version.

Item	Display description
FIRMWARE VERSION	MAIN FPGA Displays the MAIN FPGA version.
	RET FPGA 10G Displays the RETURN FPGA (10G) version.
	RET FPGA 25G Displays the RETURN FPGA (25G) version.
	RET FPGA LANT MB Displays the RETURN LANTRUNK MicroBraze version.
	UHD FPGA Displays the UHD FPGA version.
	INCOM FPGA Displays the INCOM FPGA version.
	MOIP VERSION Displays the MOIP version.
	MOIP FPGA NC 10G Displays the version of the MOIP FPGA (uncompressed 10G).
	MOIP FPGA JX 10G Displays the MOIP FPGA (JPEG XS 10G) version.
	MOIP FPGA NC 25G Displays the version of the MOIP FPGA (uncompressed 25G).
	MOIP FPGA JX 25G Displays the MOIP FPGA (JPEG XS 25G) version.
	MOIP FPGA MB Displays the MOIP MicroBraze version.
	CODEC VERSION Displays the CODEC version.
	DANTE VERSION Displays the DANTE version.

View system settings screen [SYSTEM MODE]

The View system settings screen [SYSTEM MODE] enables you to view the related image format, received image information, etc., when this unit is to use MoIP.

The View system settings screen [SYSTEM MODE] consists of [MAIN], [ST2110 TX SW], [SFP TX STATUS], [SFP1(PRIMARY) RX STATUS], and [SFP2(SECONDARY)RX STATUS].

When the AK-NP701 option board is not attached, the information set in this screen for [ST2110 TX SW], [SFP TX STATUS], [SFP1(PRIMARY) RX STATUS], and [SFP2(SECONDARY)RX STATUS] is not enabled.

MAIN

Click [MAIN] in the View system settings screen [SYSTEM MODE].

You can view the basic settings for the unit.

Item Display description	
FREQUENCY	The CCU frequency setting is displayed.
FORMAT	Displays the CCU format and allows you to change the settings.
	This is linked to the CCU main menu's [OPERATION] > [SYSTEM MODE] > [FORMAT].

OUTPUT FORMAT

indicates factory default settings.

Item	Setting value	Setting details
SDI OUT1-4 SDI OUT1	• FORMAT: 2160/59.94p, 2160/50p 12G, 3Gx4(2SI)	Sets the format of the signal output from the [UHD/HS/HD SDI OUT (1 to 4)] connectors.
	• FORMAT: 2160/29.97p, 2160/25p, 2160/23.98p 6G	
SDI OUT2	• FORMAT: 2160/59.94p-120fps, 2160/50p-100fps 12G	
SDI OUT1-4	 FORMAT: 1080/59.94p, 1080/50p <u>3G</u>, HD 	
5010013	 FORMAT: 1080/29.97p, 1080/25p, 1080/23.98p <u>TrueP</u>, PsF, Over3G 	
SDI OUT1-4 SDI OUT4	 FORMAT: 1080/59.94p-240fps, 1080/59.94p-180fps, 1080/59.94p-120fps, 1080/50p-200fps, 1080/50p-150fps, 1080/50p-100fps <u>3G</u>, HD 	

SOURCE SETTING

indicates factory default settings.

Item	Setting value	Setting details
REF SIGNAL	BB/TRI-LEVEL	Selects the input connector for reference signals.
	PTP	This is fixed to [BB/TRI-LEVEL] when AK-NP701 is not attached.
RETURN SIGNAL	SDI	Selects the input connector for the RETURN signals.
	ST2110 NDI/SRT	• [ST2110] cannot be selected when AK-NP701 is not attached.
		• [NDI/SRT] cannot be selected when AK-NP703 is not attached.
PROMPTER SIGNAL	SDI	Selects the input connector for the PROMPTER signals.
	ST2110 NDI/SRT	• [ST2110] cannot be selected when AK-NP701 is not attached.
		• [NDI/SRT] cannot be selected when AK-NP703 is not attached.
NDI/SRT SELECT	NDI	Selects the protocol output by the Streaming connector.
	SRT	Displayed as "" when AK-NP703 is not attached.
NDI/SRT OUT SIGNAL	CAM	Selects the signal output by the Streaming connector.
	MONI TRUNK	Displayed as "" when AK-NP703 is not attached.
INCOM/PGM SIGNAL	NORMAL ST2110 DANTE	Selects the signal used with INCOM/PGM.
		• This is fixed to [NORMAL] when neither AK-NP701 nor AK-NP702 is attached.
		• [ST2110] can be selected when AK-NP701 is attached.
		• [DANTE] can be selected when AK-NP702 is attached.

indicates factory default settings.

Item	Setting value	Setting details
AUX OUT SIGNAL	SDI_RET1 SDI_RET2 SDI_RET3 SDI_RET4 ST2110_RET NDI/SRT	Selects the signal output with AUX OUT.

AUDIO MoIP FORMAT

____ indicates factory default settings.

Item	Setting value	Setting details
МІС1 ТХ	1ms/2ch, 1ms/4ch, <u>1ms/8ch</u> , 0.125ms/2ch, 0.125ms/4ch, 0.125ms/8ch, 0.125ms/16ch, 0.125ms/64ch	Sets the format for MIC1 output.
МІС2 ТХ	1ms/2ch, 1ms/4ch, <u>1ms/8ch</u> , 0.125ms/2ch, 0.125ms/4ch, 0.125ms/8ch, 0.125ms/16ch, 0.125ms/64ch	Sets the format for MIC2 output.
PGM1 RX	1ms/2ch, 1ms/4ch, <u>1ms/8ch</u> , 0.125ms/2ch, 0.125ms/4ch, 0.125ms/8ch, 0.125ms/16ch, 0.125ms/64ch	Sets the format for PGM1 input.
PGM2 RX	1ms/2ch, 1ms/4ch, <u>1ms/8ch</u> , 0.125ms/2ch, 0.125ms/4ch, 0.125ms/8ch, 0.125ms/16ch, 0.125ms/64ch	Sets the format for PGM2 input.
INCOM1 TX	1ms/2ch, 1ms/4ch, <u>1ms/8ch</u> , 0.125ms/2ch, 0.125ms/4ch, 0.125ms/8ch, 0.125ms/16ch, 0.125ms/64ch	Sets the format for INCOM1 output.
INCOM2 TX	1ms/2ch, 1ms/4ch, <u>1ms/8ch</u> , 0.125ms/2ch, 0.125ms/4ch, 0.125ms/8ch, 0.125ms/16ch, 0.125ms/64ch	Sets the format for INCOM2 output.
INCOM1 RX	1ms/2ch, 1ms/4ch, <u>1ms/8ch</u> , 0.125ms/2ch, 0.125ms/4ch, 0.125ms/8ch, 0.125ms/16ch, 0.125ms/64ch	Sets the format for INCOM1 input.
INCOM2 RX	1ms/2ch, 1ms/4ch, <u>1ms/8ch</u> , 0.125ms/2ch, 0.125ms/4ch, 0.125ms/8ch, 0.125ms/16ch, 0.125ms/64ch	Sets the format for INCOM2 input.

____ indicates factory default settings.

Item		Setting value	Setting details
AUDIO TX	MIC1	1ms/2ch, 1ms/4ch, <u>1ms/8ch</u> , 0.125ms/2ch, 0.125ms/4ch, 0.125ms/8ch, 0.125ms/16ch, 0.125ms/64ch	Sets the format for MIC1 output.
	MIC2	1ms/2ch, 1ms/4ch, <u>1ms/8ch</u> , 0.125ms/2ch, 0.125ms/4ch, 0.125ms/8ch, 0.125ms/16ch, 0.125ms/64ch	Sets the format for MIC2 output.
	INCOM1	1ms/2ch, 1ms/4ch, <u>1ms/8ch</u> , 0.125ms/2ch, 0.125ms/4ch, 0.125ms/8ch, 0.125ms/16ch, 0.125ms/64ch	Sets the format for INCOM1 output.
	INCOM2	1ms/2ch, 1ms/4ch, <u>1ms/8ch</u> , 0.125ms/2ch, 0.125ms/4ch, 0.125ms/8ch, 0.125ms/16ch, 0.125ms/64ch	Sets the format for INCOM2 output.
AUDIO RX	PGM1	1ms/2ch, 1ms/4ch, <u>1ms/8ch</u> , 0.125ms/2ch, 0.125ms/4ch, 0.125ms/8ch, 0.125ms/16ch, 0.125ms/64ch	Sets the format for PGM1 input.
	PGM2	1ms/2ch, 1ms/4ch, <u>1ms/8ch</u> , 0.125ms/2ch, 0.125ms/4ch, 0.125ms/8ch, 0.125ms/16ch, 0.125ms/64ch	Sets the format for PGM2 input.
	INCOM1	1ms/2ch, 1ms/4ch, <u>1ms/8ch</u> , 0.125ms/2ch, 0.125ms/4ch, 0.125ms/8ch, 0.125ms/16ch, 0.125ms/64ch	Sets the format for INCOM1 input.
	INCOM2	1ms/2ch, 1ms/4ch, <u>1ms/8ch</u> , 0.125ms/2ch, 0.125ms/4ch, 0.125ms/8ch, 0.125ms/16ch, 0.125ms/64ch	Sets the format for INCOM2 input.

ST2110 TX SW

Click [ST2110 TX SW] in the View system settings screen [SYSTEM MODE].

Displays the [ST2110 TX SW] settings screen.

Confirm the settings with the [SET] button.

_ indicates factory default settings.

Item	Setting value	Setting details
MAIN VIDEO	ENABLE DISABLE	Transmission can be enabled/disabled.
MONITOR VIDEO	ENABLE DISABLE	Transmission can be enabled/disabled.
HD TRUNK VIDEO	ENABLE DISABLE	Transmission can be enabled/disabled.
HD TRUNK AUDIO	ENABLE DISABLE	Transmission can be enabled/disabled.
MIC1	ENABLE DISABLE	Transmission can be enabled/disabled.
MIC2	ENABLE DISABLE	Transmission can be enabled/disabled.
INCOM1	ENABLE DISABLE	Transmission can be enabled/disabled.
INCOM2	ENABLE DISABLE	Transmission can be enabled/disabled.

Note that when the [NMOS SETTING] > [NMOS CONTROL] is [ON], only the setting status is displayed.

SFP TX STATUS

Click [SFP TX STATUS] in the View system settings screen [SYSTEM MODE].

You can view the format of the TX signal source.

Item	Display description
MAIN VIDEO FORMAT	Displays the settings for the format of images output from the main output line.
MONITOR VIDEO FORMAT	Displays the settings for the format of images output from the monitor.
HD TRUNK VIDEO FORMAT	Displays the settings for the format of the HD trunk.
HD TRUNK AUDIO	Displays the enable/disable settings for audio output.
HD TRUNK AUDIO FORMAT	Displays the settings for audio output format.

SFP1(PRIMARY)RX STATUS

Click [SFP1(PRIMARY)RX STATUS] in the View system settings screen [SYSTEM MODE].

This will display the received data information for the SFP1(PRIMARY) RX signals.

Item	Display description		
RETURN1 VIDEO	The reception status is displayed as Detect (receiving)/Undetected (not receiving). The following information is also displayed:		
	SAMPLING RATE Displays the sampling rate of the received return images 1.		
	WIDTH Displays the horizontal resolution of the received return images 1.		
	HEIGHT Displays the vertical resolution of the received return images 1.		
RETURN2 VIDEO	The reception status is displayed as Detect (receiving)/Undetected (not receiving). The following information is also displayed:		
	SAMPLING RATE Displays the sampling rate of the received return images 2.		
	WIDTH Displays the horizontal resolution of the received return images 2.		
	HEIGHT Displays the vertical resolution of the received return images 2.		
RETURN3 VIDEO	The reception status is displayed as Detect (receiving)/Undetected (not receiving). The following information is also displayed:		
	SAMPLING RATE Displays the sampling rate of the received return images 3.		
	WIDTH Displays the horizontal resolution of the received return images 3.		
	HEIGHT Displays the vertical resolution of the received return images 3.		
RETURN4 VIDEO	The reception status is displayed as Detect (receiving)/Undetected (not receiving). The following information is also displayed:		
	SAMPLING RATE Displays the sampling rate of the received return images 4.		
	WIDTH Displays the horizontal resolution of the received return images 4.		
	HEIGHT		
	Displays the vertical resolution of the received return images 4.		
HD PROMPTER	The reception status is displayed as Detect (receiving)/Undetected (not receiving). The following information is also displayed:		
	SAMPLING RATE Displays the sampling rate of the received HD PROMPTER RX.		
	WIDTH Displays the horizontal resolution of the received HD PROMPTER RX.		
	HEIGHT Displays the vertical resolution of the received HD PROMPTER RX.		
HD PROMPTER AUDIO	The reception status is displayed as Detect (receiving)/Undetected (not receiving). The following information is also displayed:		
	SAMPLING RATE Displays the sampling rate of the received HD PROMPTER AUDIO RX.		
	PAYLOAD TYPE Displays the payload type of the received HD PROMPTER AUDIO RX.		
PGM1	The reception status is displayed as Detect (receiving)/Undetected (not receiving). The following information is also displayed:		
	SAMPLING RATE Displays the sampling rate of the received PGM1 AUDIO RX.		
	PAYLOAD TYPE		
	Displays the payload type of the received PGM1 AUDIO RX.		
Item	Display description		
------------------------	----------------------------------------------------------------------------------------------------------------------------------	--	--
PGM2	The reception status is displayed as Detect (receiving)/Undetected (not receiving). The following information is also displayed:		
	SAMPLING RATE Displays the sampling rate of the received PGM2 AUDIO RX.		
	PAYLOAD TYPE Displays the payload type of the received PGM2 AUDIO RX.		
INCOM1	The reception status is displayed as Detect (receiving)/Undetected (not receiving). The following information is also displayed:		
	SAMPLING RATE Displays the sampling rate of the received INCOM1 AUDIO RX.		
	PAYLOAD TYPE Displays the payload type of the received INCOM1 AUDIO RX.		
INCOM2	The reception status is displayed as Detect (receiving)/Undetected (not receiving). The following information is also displayed:		
	SAMPLING RATE Displays the sampling rate of the received INCOM2 AUDIO RX.		
	PAYLOAD TYPE Displays the payload type of the received INCOM2 AUDIO RX.		
RETURN1 JPEG XS FORMAT	The reception status is displayed as Detect (receiving)/Undetected (not receiving).		
RETURN2 JPEG XS FORMAT	The reception status is displayed as Detect (receiving)/Undetected (not receiving).		
RETURN3 JPEG XS FORMAT	The reception status is displayed as Detect (receiving)/Undetected (not receiving).		
RETURN4 JPEG XS FORMAT	The reception status is displayed as Detect (receiving)/Undetected (not receiving).		

SFP2(SECONDARY)RX STATUS

Click [SFP2(SECONDARY)RX STATUS] in the View system settings screen [SYSTEM MODE].

This will display the received data information for the SFP2(SECONDARY) RX signals.

Item	Display description	
RETURN1 VIDEO	The reception status is displayed as Detect (receiving)/Undetected (not receiving). The following information is also displayed:	
	SAMPLING RATE Displays the sampling rate of the received return images 1.	
	WIDTH Displays the horizontal resolution of the received return images 1.	
	HEIGHT Displays the vertical resolution of the received return images 1.	
RETURN2 VIDEO	The reception status is displayed as Detect (receiving)/Undetected (not receiving). The following information is also displayed:	
	SAMPLING RATE Displays the sampling rate of the received return images 2.	
	WIDTH Displays the horizontal resolution of the received return images 2.	
	HEIGHT Displays the vertical resolution of the received return images 2.	
RETURN3 VIDEO	The reception status is displayed as Detect (receiving)/Undetected (not receiving). The following information is also displayed:	
	SAMPLING RATE Displays the sampling rate of the received return images 3.	
	WIDTH Displays the horizontal resolution of the received return images 3.	
	HEIGHT Displays the vertical resolution of the received return images 3.	
RETURN4 VIDEO	The reception status is displayed as Detect (receiving)/Undetected (not receiving). The following information is also displayed:	
	SAMPLING RATE Displays the sampling rate of the received return images 4.	
	WIDTH Displays the horizontal resolution of the received return images 4.	
	HEIGHT Displays the vertical resolution of the received return images 4.	

Item	Display description	
HD PROMPTER	The reception status is displayed as Detect (receiving)/Undetected (not receiving). The following information is also displayed:	
	SAMPLING RATE Displays the sampling rate of the received HD PROMPTER RX.	
	WIDTH Displays the horizontal resolution of the received HD PROMPTER RX.	
	HEIGHT Displays the vertical resolution of the received HD PROMPTER RX.	
HD PROMPTER AUDIO	The reception status is displayed as Detect (receiving)/Undetected (not receiving). The following information is also displayed:	
	SAMPLING RATE Displays the sampling rate of the received HD PROMPTER AUDIO RX.	
	PAYLOAD TYPE Displays the payload type of the received HD PROMPTER AUDIO RX.	
PGM1	The reception status is displayed as Detect (receiving)/Undetected (not receiving). The following information is also displayed:	
	SAMPLING RATE Displays the sampling rate of the received PGM1 AUDIO RX.	
	PAYLOAD TYPE Displays the payload type of the received PGM1 AUDIO RX.	
PGM2	The reception status is displayed as Detect (receiving)/Undetected (not receiving). The following information is also displayed:	
	SAMPLING RATE Displays the sampling rate of the received PGM2 AUDIO RX.	
	PAYLOAD TYPE Displays the payload type of the received PGM2 AUDIO RX.	
INCOM1	The reception status is displayed as Detect (receiving)/Undetected (not receiving). The following information is also displayed:	
	SAMPLING RATE Displays the sampling rate of the received INCOM1 AUDIO RX.	
	PAYLOAD TYPE Displays the payload type of the received INCOM1 AUDIO RX	
INCOM2	The reception status is displayed as Detect (receiving)/Undetected (not receiving). The following information is also displayed:	
	SAMPLING RATE	
	Displays the sampling rate of the received INCOM2 AUDIO RX.	
	PAYLOAD IYPE Displays the payload type of the received INCOM2 AUDIO RX.	
RETURN1 JPEG XS FORMAT	The reception status is displayed as Detect (receiving)/Undetected (not receiving).	
RETURN2 JPEG XS FORMAT	The reception status is displayed as Detect (receiving)/Undetected (not receiving).	
RETURN3 JPEG XS FORMAT	The reception status is displayed as Detect (receiving)/Undetected (not receiving).	
RETURN4 JPEG XS FORMAT	The reception status is displayed as Detect (receiving)/Undetected (not receiving).	

NDI IN STATUS(OP)

When AK-NP703 (STREAMING option) is not attached, this screen is disabled.

Item	Display description	
NDI/SRT SELECT	NDI NDI is displayed during NDI input.	
	SRT	
	SKT is displayed during SKT input.	
FORMAT	Displays the image format information for the NDI signal input. Hyphens are displayed when NDI/SRT SELECT is SRT.	
SAMPLING RATE	Displays the sampling rate information for the NDI signal input. Hyphens are displayed when NDI/SRT SELECT is SRT.	
AUDIO CANNAL	Displays the surround information of the NDI signal input. Hyphens are displayed when NDI/SRT SELECT is SRT.	
FRAME DATA	Displays the color information of the NDI signal input. Hyphens are displayed when NDI/ SRT SELECT is SRT.	
COMPRESS	Displays the compression format information for the NDI signal input. Hyphens are displayed when NDI/SRT SELECT is SRT.	

Item	Display description	
STREAMING MODE	Displays the compression format information for the NDI signal input. Hyphens are displayed when NDI/SRT SELECT is SRT.	

SRT STAEAMING SW

When AK-NP703 (STREAMING option) is not attached, this screen is disabled.

_ indicates factory default settings.

_

_

Item	Display description
SRT STAEAMING SW	<u>START</u> When the MODE is CALLER, the operation is available.
	STOP When the MODE is LISTENER, it is fixed to START.

SRT IN STATUS(OP)

When AK-NP703 (STREAMING option) is not attached, this screen is disabled.

___ indicates factory default settings.

Item	Display description	
SRT STAEAMING SW	START When the MODE is CALLER, the operation is available. STOP	
NDI/SRT SELECT	NDI is displayed during NDI input.	
	SRT SRT is displayed during SRT input.	
FORMAT	Displays the image format information for the SRT signal input. Hyphens are displayed when NDI/SRT SELECT is NDI.	
SAMPLING RATE	Displays the sampling rate information for the SRT signal input. Hyphens are displayed when NDI/SRT SELECT is NDI.	
AUDIO CANNAL	Displays the surround information of the SRT signal input. Hyphens are displayed when NDI/SRT SELECT is NDI.	
COMPRESS	Displays the compression format information for the SRT signal input. Hyphens are displayed when NDI/SRT SELECT is NDI.	

Network settings screen [NETWORK]

Make settings related to the network in the Network settings screen [NETWORK].

The Network settings screen [NETWORK] consists of [LAN], [TALLY IN SETTING], [PTP SETTING]^{*1}, [ST2110 SETTING]^{*1}, [SFP1(PRIMARY)]^{*1}, [SFP1(PRIMARY)RX]^{*1}, [SFP2(SECONDARY)]^{*1}, [SFP2(SECONDARY)]^{*1}, [SFP2(SECONDARY)RX]^{*1}, [NMOS SETTING]^{*1}, [NDI/SRT SETTING]^{*2}, [DNS SETTING]^{*2}, [HTTPS], and [COMMON].

- *1: Can be set when the AK-NP701 option board is attached.
- *2: Can be set when the AK-NP703 option board is attached.

LAN

Click [LAN] in the Network settings screen [NETWORK].

Make network settings for the [LAN] connector.

Confirm the settings with the [SET] button.

LAN	
DHCP	ON OFF
IP ADDRESS	192.168.0.20
SUBNET MASK	255.255.255.0
DEFAULT GATEWAY	0.0.0.0
HTTP PORT	80
HTTPS PORT	443
ROP PORT	49152
MAC ADDRESS	(#): \$ \$:4#:2#:\$#:\$\$
DNS	AUTO MANUAL
PRIMARY SERVER ADDRESS	192.168.0.250
SECONDARY SERVER ADDRESS	0.0.0
DOMAIN	haspatha.
	SET

The following information is required to configure network settings. Consult your network administrator or Internet service provider.

- IP address
- Port
- Subnet mask
- Default gateway (when using a gateway server or router)
- Primary server address, secondary server address, and domain for DNS (when using DNS)

indicates factory default settings.

Item	Setting value	Setting details
DHCP	ON OFF	Select the method for setting IP addresses.
IP ADDRESS	192.168.0.20	When not using the DHCP function, enter IP addresses. Enter so that the address does not duplicate the IP addresses of the personal computer or other network cameras.
SUBNET MASK	255.255.255.0	When not using the DHCP function, enter subnet masks.
DEFAULT GATEWAY	192.168.0.1	When not using the DHCP function, set default gateways.

____ indicates factory default settings.

_

Item	Setting value	Setting details
HTTP PORT	00001 to <u>00080</u> to 65535 (20, 21, 23, 25, 42, 53, 67, 68, 69, 110, 123, 161, 162, 443, 546, 547, 554, 995, 5960 to 5985, 7960 to 8060, 10669, 10670, 11900, 59000 to 61000 are prohibited)	Set the port number used for web access.
HTTPS Port	00001 to 00443 to 65535 (20, 21, 23, 25, 42, 53, 67, 68, 69, 80, 110, 123, 161, 162, 546, 547, 554, 995, 5960 to 5985, 7960 to 8060, 10669, 10670, 11900, 59000 to 61000 are prohibited)	Set the port number used for web access via HTTPS.
ROP PORT	49152, 49200 to 49299	Set the port number used for connecting to the ROP.
MAC ADDRESS	Display only	Displays the MAC address.
DNS	DNS MANUAL AUTO	DNS Sets whether the DNS server address is to be acquired automatically (AUTO), or to be input manually (MANUAL).
	 PRIMARY SERVER ADDRESS 0.0.0.0 SECONDARY SERVER ADDRESS 0.0.0.0 DOMAIN The default value is blank. 	 PRIMARY SERVER ADDRESS SECONDARY SERVER ADDRESS DOMAIN When using [MANUAL] for [DNS], enter the IP address for the DNS server. Consult the system administrator regarding the DNS server information.

TALLY IN SETTING

Click [TALLY IN SETTING] in the Network settings screen [NETWORK].

Make settings related to Tally control via TSL Protocol 5.0.

Confirm the settings with the [SET] button.

_ indicates factory default settings.

Item	Setting value	Setting details
INDEX NO.	<u>1</u> to 255	Enter the INDEX NO. set by devices that output TALLY.
PORT	60000 to <u>62000</u> to 65535	Enter the TALLY IN port number.

NOTE

• The IP address for TALLY IN will be that of the settings for the [LAN] connector.

PTP SETTING

• Can be set when the AK-NP701 option board is attached.

Click [PTP SETTING] in the Network settings screen [NETWORK].

Make PTP related network settings.

Confirm the settings with the [SET] button.

_ indicates factory default settings.

Item	Setting value	Setting details
CLOCK TYPE	BC E2E TC P2P TC	Sets the CLOCK TYPE for PTP.
DOMAIN	1 to <u>127</u>	Sets the DOMAIN number.
IP ADDRESS(PRIMARY)	Display only	Displays the IP address for PTP(PRIMARY).
IP ADDRESS(SECONDARY)	Display only	Displays the IP address for PTP(SECONDARY).
GRANDMASTER ID	Display only	Displays GRANDMASTER ID notified from the PTP server.

ST2110 SETTING

• Can be set when the AK-NP701 option board is attached.

Click [ST2110 SETTING] in the Network settings screen [NETWORK].

_ indicates factory default settings.

Item	Setting value	Setting details
SFP SPEED	25G-FEC 25G 10G	Sets the setting information of the SFP module SPEED.
VIDEO COMP	UNCOMP JPEG XS	Sets the settings for images transmitted via ST2110.

Confirm the settings with the [SET] button. After changing the settings with the [SET] button, the unit restarts.

SFP1(PRIMARY)

• Can be set when the AK-NP701 option board is attached.

Click [SFP1(PRIMARY)] in the Network settings screen [NETWORK].

Make network settings for the [SFP+/SFP28] slot 1 (SFP1(PRIMARY)) for MoIP input/output.

Confirm the settings with the [SET] button.

The following information is required to configure network settings. Consult your network administrator or Internet service provider.

- IP address
- Port
- Subnet mask
- Default gateway (when using a gateway server or router)

indicates factory default settings.

Item	Setting value	Setting details
DHCP	ON OFF	Select the method for setting the SFP1(PRIMARY) IP addresses.
IP ADDRESS	192.168.1.50	When not using the DHCP function, enter the SFP1(PRIMARY) IP addresses. Enter so that the address does not duplicate the IP addresses of the personal computer or other network cameras.
PORT	1024 to <u>49300</u> to 65535 (10670 is prohibited)	Enter the SFP1(PRIMARY) port numbers.
SUBNET MASK	255.255.255.0	When not using the DHCP function, enter the SFP1(PRIMARY) subnet masks.
DEFAULT GATEWAY	<u>192.168.1.1</u>	When not using the DHCP function, set the SFP1(PRIMARY) default gateways.
MAC ADDRESS	Display only	Display the SFP1(PRIMARY) MAC addresses.
INFORMATION	TRANSCEIVER VENDOR NAME VENDOR PN VENDOR REV VENDOR SN DATE CODE TX POWER RX POWER	Displays the SFP1 module information. Press the [RELOAD] button to display the latest information.

SFP1(PRIMARY)TX

• Can be set when the AK-NP701 option board is attached.

Click [SFP1(PRIMARY)TX] in the Network settings screen [NETWORK].

Make network settings for the SFP1(PRIMARY) TX signal.

Confirm the settings with the [SET] button.

___ indicates factory default settings.

Item	Setting value	Setting details
SFP SPEED	Display only	Displays the value of the "SFP SPEED" setting in the "SFP1 SETTING" of the NETWORK menu.
VIDEO COMP	Display only	Displays the value of the "VIDEO COMP" setting in the "SFP1 SETTING" of the NETWORK menu.
MAIN VIDEO TX	Display only	Displays the output format.

____ indicates factory default settings.

Item	Setting value	Setting details
MAIN VIDEO TX	IP ADDRESS	IP ADDRESS
	239.1.0.1	Enter the IP address for MAIN VIDEO TX.
	PORT	PORT
	$(1024 \text{ to } \frac{49311}{9311} \text{ to } 65535)$	Enter the port number for MAIN VIDEO TX.
JPEG XS TX	IP ADDRESS	IP ADDRESS
	239.1.0.10	Enter the IP address for JPEG XS TX.
	PORT	PORT
	1024 to <u>49361</u> to 65535	Enter the port number for JPEG XS TX.
	5:1, 8:1, 12:1, 20:1	
	4:1, 0:1, 10:1, 15:1	Sets the HD compression rate.
MONITOR VIDEO TX	• IP ADDRESS 239.1.0.11	Enter the IP address for MONITOR VIDEO TX.
	PORT	PORT
	1024 to <u>49312</u> to 65535	Enter the port number for MONITOR VIDEO TX.
	(10670 is prohibited)	
HD TRUNK TX	Display only	Displays the HD TRUNK VIDEO FORMAT output format.
HD TRUNK TX	IP ADDRESS 239.2.0.1	IP ADDRESS
	<u>239.2.0.1</u>	
	• PORT 1024 to 49321 to 65535	Enter the port number for HD TRUNK TX.
	(10670 is prohibited)	
HD TRUNK AUDIO TX	Display only	Displays the function's Enable/Disable and the audio format.
HD TRUNK AUDIO TX	IP ADDRESS	IP ADDRESS
	239.3.0.1	Enter the IP address for HD TRUNK AUDIO TX.
	 PORT 1024 to 49331 to 65535 	PORT Enter the port number for HD TRUNK AUDIO TX
	(10670 is prohibited)	
MIC1 AUDIO TX	Display only	Displays the output format for the MIC1 AUDIO.
MIC1 AUDIO TX	IP ADDRESS	IP ADDRESS
	239.4.0.1	Enter the IP address for MIC1 AUDIO TX.
	• PORT	PORT
	(10670 is prohibited)	Enter the port number for MICT ADDIO TX.
MIC2 AUDIO TX	Display only	Displays the output format for the MIC2 AUDIO.
MIC2 AUDIO TX	IP ADDRESS	IP ADDRESS
	239.4.0.2	Enter the IP address for MIC2 AUDIO TX.
	PORT	PORT
	1024 to <u>49342</u> to 65535 (10670 is prohibited)	Enter the port number for MIC2 AUDIO TX.
	Display only	Displays the output format for the INCOM1 AUDIO
	IP ADDRESS	IP ADDRESS
	239.5.0.1	Enter the IP address for INCOM1 AUDIO TX.
	PORT	PORT
	1024 to <u>49351</u> to 65535	Enter the port number for INCOM1 AUDIO TX.
	(10670 is prohibited)	
	Display only	Displays the output format for the INCOM2 AUDIO.
	• IP ADDRESS 239.5.0.2	IP ADDRESS Enter the IP address for INCOM2 AUDIO TX
	• PORT	PORT
	1024 to 49352 to 65535	Enter the port number for INCOM2 AUDIO TX.
	(10670 is prohibited)	

SFP1(PRIMARY)RX

• Can be set when the AK-NP701 option board is attached.

Click [SFP1(PRIMARY)RX] in the Network settings screen [NETWORK].

Make network settings for the SFP1(PRIMARY) RX signal.

Confirm the settings with the [SET] button.

__ indicates factory default settings.

Item	Setting value	Setting details
RETURN1 VIDEO RX	MULTICAST ADDRESS 239.11.0.1	MULTICAST ADDRESS Enter the multicast address for return images 1.
	SOURCE ADDRESS 0.0.0.0	SOURCE ADDRESS Enter the transmission source IP address for return images 1.
	 PORT 1024 to <u>49411</u> to 65535 (10670 is prohibited) 	PORT Enter the port number for return images 1.
RETURN2 VIDEO RX	MULTICAST ADDRESS <u>239.11.0.2</u>	MULTICAST ADDRESS Enter the multicast address for return images 2.
	SOURCE ADDRESS <u>0.0.0.0</u>	SOURCE ADDRESS Enter the transmission source IP address for return images 2.
	 PORT 1024 to <u>49412</u> to 65535 (10670 is prohibited) 	PORT Enter the port number for return images 2.
RETURN3 VIDEO RX	MULTICAST ADDRESS <u>239.11.0.3</u>	MULTICAST ADDRESS Enter the multicast address for return images 3.
	SOURCE ADDRESS 0.0.0.0	SOURCE ADDRESS Enter the transmission source IP address for return images 3.
	• PORT 1024 to <u>49413</u> to 65535 (10670 is prohibited)	PORT Enter the port number for return images 3.
RETURN4 VIDEO RX	MULTICAST ADDRESS 320.11.0.4	MULTICAST ADDRESS
		SOURCE ADDRESS
	<u>0.0.0.0</u>	Enter the transmission source IP address for return images 4.
	 PORT 1024 to <u>49414</u> to 65535 (10670 is prohibited) 	PORT Enter the port number for return images 4.
HD PROMPTER RX	MULTICAST ADDRESS <u>239.12.0.1</u>	MULTICAST ADDRESS Enter the multicast address for HD PROMPTER RX.
	SOURCE ADDRESS 0.0.0.0	SOURCE ADDRESS Enter the source IP address for HD PROMPTER RX.
	 PORT 1024 to <u>49421</u> to 65535 (10670 is prohibited) 	PORT Enter the port number for HD PROMPTER RX.
HD PROMPTER AUDIO RX	MULTICAST ADDRESS <u>239.13.0.1</u>	MULTICAST ADDRESS Enter the multicast address for HD PROMPTER AUDIO RX.
	SOURCE ADDRESS 0.0.0.0	SOURCE ADDRESS Enter the source IP address for HD PROMPTER AUDIO RX.
	PORT 1024 to <u>49431</u> to 65535 (10670 is prohibited)	PORT Enter the port number for HD PROMPTER AUDIO RX.
PGM1 AUDIO RX	• MULTICAST ADDRESS 239.14.0.1	MULTICAST ADDRESS Enter the multicast address for PGM1 AUDIO RX.
	SOURCE ADDRESS <u>0.0.0.0</u>	SOURCE ADDRESS Enter the source IP address for PGM1 AUDIO RX.
	 PORT 1024 to <u>49441</u> to 65535 (10670 is prohibited) 	PORT Enter the port number for PGM1 AUDIO RX.

Item	Setting value	Setting details
PGM2 AUDIO RX	MULTICAST ADDRESS 239.14.0.2	MULTICAST ADDRESS Enter the multicast address for PGM2 AUDIO RX.
	SOURCE ADDRESS 0.0.0.0	SOURCE ADDRESS Enter the source IP address for PGM2 AUDIO RX.
	 PORT 1024 to <u>49442</u> to 65535 (10670 is prohibited) 	PORT Enter the port number for PGM2 AUDIO RX.
INCOM1 AUDIO RX	MULTICAST ADDRESS 239.15.0.1	MULTICAST ADDRESS Enter the multicast address for INCOM1 AUDIO RX.
	SOURCE ADDRESS 0.0.0.0	SOURCE ADDRESS Enter the source IP address for INCOM1 AUDIO RX.
	 PORT 1024 to <u>49451</u> to 65535 (10670 is prohibited) 	PORT Enter the port number for INCOM1 AUDIO RX.
INCOM2 AUDIO RX	MULTICAST ADDRESS <u>239.15.0.2</u>	MULTICAST ADDRESS Enter the multicast address for INCOM2 AUDIO RX.
	• SOURCE ADDRESS 0.0.0.0	SOURCE ADDRESS Enter the source IP address for INCOM2 AUDIO RX.
	 PORT 1024 to <u>49452</u> to 65535 (10670 is prohibited) 	PORT Enter the port number for INCOM2 AUDIO RX.
RETURN1 JPEG XS RX	MULTICAST ADDRESS 239.16.0.1	MULTICAST ADDRESS Enter the multicast address for RETURN1 JPEG XS RX.
	• SOURCE ADDRESS 0.0.0.0	SOURCE ADDRESS Enter the source IP address for RETURN1 JPEG XS RX.
	 PORT 1024 to <u>49461</u> to 65535 (10670 is prohibited) 	PORT Enter the port number for RETURN1 JPEG XS RX.
RETURN2 JPEG XS RX	MULTICAST ADDRESS 239.16.0.2	MULTICAST ADDRESS Enter the multicast address for RETURN2 JPEG XS RX.
	SOURCE ADDRESS 0.0.0.0	SOURCE ADDRESS Enter the source IP address for RETURN2 JPEG XS RX.
	 PORT 1024 to <u>49462</u> to 65535 (10670 is prohibited) 	PORT Enter the port number for RETURN2 JPEG XS RX.
RETURN3 JPEG XS RX	MULTICAST ADDRESS 239.16.0.3	MULTICAST ADDRESS Enter the multicast address for RETURN3 JPEG XS RX.
	• SOURCE ADDRESS	SOURCE ADDRESS Enter the source IP address for RETURN3 JPEG XS RX.
	 PORT 1024 to <u>49463</u> to 65535 (10670 is prohibited) 	PORT Enter the port number for RETURN3 JPEG XS RX.
RETURN4 JPEG XS RX	MULTICAST ADDRESS 239.16.0.4	MULTICAST ADDRESS Enter the multicast address for RETURN4 JPEG XS RX.
	• SOURCE ADDRESS	SOURCE ADDRESS Enter the source IP address for RETURN4 JPEG XS RX.
	 PORT 1024 to <u>49464</u> to 65535 (10670 is prohibited) 	PORT Enter the port number for RETURN4 JPEG XS RX.

SFP2(SECONDARY)

• Can be set when the AK-NP701 option board is attached.

Click [SFP2(SECONDARY)] in the Network settings screen [NETWORK].

Make network settings for the [SFP+/SFP28] slot 2 (SFP2(SECONDARY)) for MoIP input/output.

Confirm the settings with the [SET] button.

The following information is required to configure network settings. Consult your network administrator or Internet service provider.

- IP address
- Port
- Subnet mask
- Default gateway (when using a gateway server or router)

__ indicates factory default settings.

Item	Setting value	Setting details
DHCP	ON OFF	Select the method for setting the SFP2(SECONDARY) IP addresses.
IP ADDRESS	192.168.0.51	When not using the DHCP function, enter the SFP2(SECONDARY) IP addresses. Enter so that the address does not duplicate the IP addresses of the personal computer or other network cameras.
PORT	1024 to <u>49301</u> to 65535 (10670 is prohibited)	Enter the SFP2(SECONDARY) port numbers.
SUBNET MASK	255.255.255.0	When not using the DHCP function, enter the SFP2(SECONDARY) subnet masks.
DEFAULT GATEWAY	192.168.0.1	When not using the DHCP function, set the SFP2(SECONDARY) default gateways.
MAC ADDRESS	Display only	Display the SFP2(SECONDARY) MAC addresses.
INFORMATION	TRANSCEIVER	Displays the SFP1 module information.
	VENDOR NAME VENDOR PN VENDOR REV VENDOR SN DATE CODE TX POWER RX POWER	Press the [RELOAD] button to display the latest information.

SFP2(SECONDARY)TX

- Can be set when the AK-NP701 option board is attached.
- Click [SFP2(SECONDARY)TX] in the Network settings screen [NETWORK].

Make network settings for the SFP2(SECONDARY) TX signal.

Confirm the settings with the [SET] button.

indicates factory default settings.

Item	Setting value	Setting details
SFP SPEED	Display only	Displays the value of the "SFP SPEED" setting in the "SFP2 SETTING" of the NETWORK menu.
VIDEO COMP	Display only	Displays the value of the "VIDEO COMP" setting in the "SFP2 SETTING" of the NETWORK menu.
MAIN VIDEO FORMAT	Display only	Displays the output format.
MAIN VIDEO TX	• IP ADDRESS 239.21.0.1	IP ADDRESS Enter the IP address for MAIN VIDEO TX.
	 PORT 1024 to <u>49511</u> to 65535 (10670 is prohibited) 	PORT Enter the port number for MAIN VIDEO TX.
JPEG XS TX	• IP ADDRESS 239.21.0.10	IP ADDRESS Enter the IP address for JPEG XS TX.
	 PORT 1024 to <u>49561</u> to 65535 (10670 is prohibited) 	PORT Enter the port number for JPEG XS TX.
UHD COMP RATE	5:1, 8:1, 12:1, 20:1	Sets the UHD compression rate.
HD COMP RATE	4:1, 6:1, 10:1, 15:1	Sets the HD compression rate.
MONITOR VIDEO TX	Display only	Displays the MONITOR VIDEO TX output format.

indicates factory default settings.

Item	Setting value	Setting details
MONITOR VIDEO TX	 IP ADDRESS 239.21.0.11 PORT 1024 to 49512 to 65535 (10670 is prohibited) 	IP ADDRESS Enter the IP address for MONITOR VIDEO TX. PORT Enter the port number for MONITOR VIDEO TX.
HD TRUNK TX	Display only	Displays the HD TRUNK VIDEO FORMAT output format.
HD TRUNK TX	 IP ADDRESS 239.22.0.1 PORT 1024 to 49521 to 65535 (10670 is prohibited) 	IP ADDRESS Enter the IP address for HD TRUNK TX. PORT Enter the port number for HD TRUNK TX.
HD TRUNK AUDIO TX	Display only	Displays the function's Enable/Disable and the audio format.
HD TRUNK AUDIO TX	 IP ADDRESS 239.23.0.1 PORT 1024 to 49531 to 65535 (10670 is prohibited) 	IP ADDRESS Enter the IP address for HD TRUNK AUDIO TX. PORT Enter the port number for HD TRUNK AUDIO TX.
MIC1 AUDIO TX	Display only	Displays the output format for the MIC1 AUDIO.
MIC1 AUDIO TX	 IP ADDRESS <u>239.24.0.1</u> PORT 1024 to <u>49541</u> to 65535 (10670 is prohibited) 	IP ADDRESS Enter the IP address for MIC1 AUDIO TX. PORT Enter the port number for MIC1 AUDIO TX.
MIC2 AUDIO TX	Display only	Displays the output format for the MIC2 AUDIO.
MIC2 AUDIO TX	 IP ADDRESS 239.24.0.2 PORT 1024 to <u>49542</u> to 65535 (10670 is prohibited) 	IP ADDRESS Enter the IP address for MIC2 AUDIO TX. PORT Enter the port number for MIC2 AUDIO TX.
INCOM1 AUDIO TX	Display only	Displays the output format for the INCOM1 AUDIO.
INCOM1 AUDIO TX	 IP ADDRESS 239.25.0.1 PORT 1024 to 49551 to 65535 (10670 is prohibited) 	IP ADDRESS Enter the source IP address for INCOM1 AUDIO TX. PORT Enter the port number for INCOM1 AUDIO TX.
INCOM2 AUDIO TX	Display only	Displays the output format for the INCOM2 AUDIO.
INCOM2 AUDIO TX	 IP ADDRESS 239.25.0.2 PORT 1024 to <u>49552</u> to 65535 (10670 is prohibited) 	IP ADDRESS Enter the source IP address for INCOM2 AUDIO TX. PORT Enter the port number for INCOM2 AUDIO TX.

SFP2(SECONDARY)RX

• Can be set when the AK-NP701 option board is attached.

Click [SFP2(SECONDARY)RX] in the Network settings screen [NETWORK].

Make network settings for the SFP2(SECONDARY) RX signal.

Confirm the settings with the [SET] button.

___ indicates factory default settings.

Item	Setting value	Setting details
RETURN1 VIDEO RX	MULTICAST ADDRESS 239.31.0.1	MULTICAST ADDRESS Enter the multicast address for return images 1.
	• SOURCE ADDRESS 0.0.0.0	SOURCE ADDRESS Enter the transmission source IP address for return images 1.
	 PORT 1024 to <u>49611</u> to 65535 (10670 is prohibited) 	PORT Enter the port number for return images 1.
RETURN2 VIDEO RX	MULTICAST ADDRESS <u>239.31.0.2</u>	MULTICAST ADDRESS Enter the multicast address for return images 2.
	• SOURCE ADDRESS 0.0.0.0	SOURCE ADDRESS Enter the transmission source IP address for return images 2.
	 PORT 1024 to <u>49612</u> to 65535 (10670 is prohibited) 	PORT Enter the port number for return images 2.
RETURN3 VIDEO RX	MULTICAST ADDRESS 239.31.0.3	MULTICAST ADDRESS Enter the multicast address for return images 3.
	• SOURCE ADDRESS <u>0.0.0.0</u>	SOURCE ADDRESS Enter the transmission source IP address for return images 3.
	 PORT 1024 to <u>49613</u> to 65535 (10670 is prohibited) 	PORT Enter the port number for return images 3.
RETURN4 VIDEO RX	MULTICAST ADDRESS 239.31.0.4	MULTICAST ADDRESS Enter the multicast address for return images 4
	SOURCE ADDRESS	SOURCE ADDRESS
	<u>0.0.0.0</u>	Enter the transmission source IP address for return images 4.
	 FORT 1024 to <u>49614</u> to 65535 (10670 is prohibited) 	Enter the port number for return images 4.
HD PROMPTER RX	MULTICAST ADDRESS 239.32.0.1	MULTICAST ADDRESS Enter the multicast address for HD PROMPTER RX.
	• SOURCE ADDRESS 0.0.0.0	SOURCE ADDRESS Enter the source IP address for HD PROMPTER RX.
	 PORT 1024 to <u>49621</u> to 65535 (10670 is prohibited) 	PORT Enter the port number for HD PROMPTER RX.
HD PROMPTER AUDIO RX	MULTICAST ADDRESS 239.33.0.1	MULTICAST ADDRESS Enter the multicast address for HD PROMPTER AUDIO RX.
	• SOURCE ADDRESS 0.0.0.0	SOURCE ADDRESS Enter the source IP address for HD PROMPTER AUDIO RX.
	 PORT 1024 to <u>49631</u> to 65535 (10670 is prohibited) 	PORT Enter the port number for HD PROMPTER AUDIO RX.
PGM1 AUDIO RX	• MULTICAST ADDRESS 239.34.0.1	MULTICAST ADDRESS Enter the multicast address for PGM1 AUDIO RX.
	• SOURCE ADDRESS 0.0.0.0	SOURCE ADDRESS Enter the source IP address for PGM1 AUDIO RX.
	 PORT 1024 to <u>49641</u> to 65535 (10670 is prohibited) 	PORT Enter the port number for PGM1 AUDIO RX.

_ indicates factory default settings.

Item	Setting value	Setting details
PGM2 AUDIO RX	MULTICAST ADDRESS <u>239.34.0.2</u>	MULTICAST ADDRESS Enter the multicast address for PGM2 AUDIO RX.
	• SOURCE ADDRESS 0.0.0.0	SOURCE ADDRESS Enter the source IP address for PGM2 AUDIO RX.
	 PORT 1024 to <u>49642</u> to 65535 (10670 is prohibited) 	PORT Enter the port number for PGM2 AUDIO RX.
INCOM1 AUDIO RX	• MULTICAST ADDRESS 239.35.0.1	MULTICAST ADDRESS Enter the multicast address for INCOM1 AUDIO RX.
	SOURCE ADDRESS 0.0.0.0	SOURCE ADDRESS Enter the source IP address for INCOM1 AUDIO RX.
	 PORT 1024 to <u>49651</u> to 65535 (10670 is prohibited) 	PORT Enter the port number for INCOM1 AUDIO RX.
INCOM2 AUDIO RX	MULTICAST ADDRESS 239 35 0 2	MULTICAST ADDRESS Enter the multicast address for INCOM2 AUDIO RX
	SOURCE ADDRESS 0.0.0.0	SOURCE ADDRESS Enter the source IP address for INCOM2 AUDIO RX.
	 PORT 1024 to <u>49652</u> to 65535 (10670 is prohibited) 	PORT Enter the port number for INCOM2 AUDIO RX.
RETURN1 JPEG XS RX	MULTICAST ADDRESS <u>239.36.0.1</u>	MULTICAST ADDRESS Enter the multicast address for RETURN1 JPEG XS RX.
	• SOURCE ADDRESS 0.0.0.0	SOURCE ADDRESS Enter the source IP address for RETURN1 JPEG XS RX.
	 PORT 1024 to <u>49661</u> to 65535 (10670 is prohibited) 	PORT Enter the port number for RETURN1 JPEG XS RX.
RETURN2 JPEG XS RX	MULTICAST ADDRESS <u>239.36.0.2</u>	MULTICAST ADDRESS Enter the multicast address for RETURN2 JPEG XS RX.
	• SOURCE ADDRESS 0.0.0.0	SOURCE ADDRESS Enter the source IP address for RETURN2 JPEG XS RX.
	 PORT 1024 to <u>49662</u> to 65535 (10670 is prohibited) 	PORT Enter the port number for RETURN2 JPEG XS RX.
RETURN3 JPEG XS RX	MULTICAST ADDRESS <u>239.36.0.3</u>	MULTICAST ADDRESS Enter the multicast address for RETURN3 JPEG XS RX.
	• SOURCE ADDRESS 0.0.0.0	SOURCE ADDRESS Enter the source IP address for RETURN3 JPEG XS RX.
	 PORT 1024 to <u>49663</u> to 65535 (10670 is prohibited) 	PORT Enter the port number for RETURN3 JPEG XS RX.
RETURN4 JPEG XS RX	MULTICAST ADDRESS <u>239.36.0.4</u>	MULTICAST ADDRESS Enter the multicast address for RETURN4 JPEG XS RX.
	SOURCE ADDRESS 0.0.0.0	SOURCE ADDRESS Enter the source IP address for RETURN4 JPEG XS RX.
	 PORT 1024 to <u>49664</u> to 65535 (10670 is prohibited) 	PORT Enter the port number for RETURN4 JPEG XS RX.

NMOS SETTING

• Can be set when the AK-NP701 option board is attached.

Click [NMOS SETTING] in the Network settings screen [NETWORK].

Make NMOS related network settings.

Confirm the settings with the [SET] button.

_ indicates factory default settings.

Item	Setting value	Setting details
NMOS CONTROL	ON OFF	Enables/disables the NMOS function.

___ indicates factory default settings.

_

Item	Setting value	Setting details
STATUS	UNREGISTERD REGISTERING REGISTERED P2P MODE (Display only)	Displays the NMOS operation status, such as RDS connection status.
PORT(IS-04)	1024 to <u>50040</u> to 65535	Sets the port number on the camera for IS-04 Node API.
PORT(IS-05)	1024 to <u>50050</u> to 65535	Sets the port number on the camera for IS-05 Connection API.
RDS IP ADDRESS	Display only	Displays the discovered IP address.
RDS PORT	Display only	Displays the port number automatically discovered.
LABEL SETTING	AUTO MANUAL	AUTO The LABEL PREFIX cannot be changed. It is fixed to UCU700_**** ("****" is the last four digits of the MAC address). MANUAL Text can be set in LABEL PREFIX.
LABEL PREFIX	UCU700_**** ("****" is the last four digits of the MAC address)	Sets the prefix appended which is shared with NMOS resource names on this unit.
DISCOVERY	uniDNS mDNS	Sets the method for NMOS resource discovery.

NDI/SRT SETTING

• Can be set when the AK-NP703 option board is attached.

Click [NDI/SRT SETTING] in the Network settings screen [NETWORK].

Make network settings for NDI/SRT.

Confirm the settings with the [SET] button.

The following information is required to configure network settings. Consult your network administrator or Internet service provider.

- IP address
- Subnet mask
- Default gateway (when using a gateway server or router)

___ indicates factory default settings.

Item	Setting value	Setting details
DHCP	ON OFF	Select the method for setting the IP address for NDI/SRT.
IP ADDRESS	192.168.0.52	When not using the DHCP function, enter the NDI/SRT IP address. Enter so that the address does not duplicate the IP addresses of the personal computer or other network cameras.
SUBNET MASK	255.255.255.0	When not using the DHCP function, enter the NDI/SRT subnet mask.
DEFAULT GATEWAY	192.168.0.1	When not using the DHCP function, set the NDI/SRT default gateway.
MAC ADDRESS	Display only	Display the MAC address for NDI/SRT.

NDI IN SETTING

When AK-NP703 (STREAMING option) is not attached, this screen is disabled.

ltem	Setting value	Setting details
MACHINE NAME	Display only	Displays the name notified by the NDI receiving device.
SOURCE NAME	Display only	Displays the name notified by the NDI receiving device.
SCAN	Use this procedure to scan for devices.	Displays a list of machine names in the format of the MACHINE NAME (SOURCE NAME) on the network.
		 Devices that support NDI HX that pass through AK-NP703 are detected, but reception from supporting devices is not possible. The maximum number that can be detected is 64.

_ indicates factory default settings.

Item	Setting value	Setting details
PROTOCOL	TCP UDP	Sets the protocol to be used with the NDI sending device. TCP Sets TCP as the protocol to be used with the NDI sending device. Permits sTCP communications. UDP Sets UDP as the protocol to be used with the NDI sending device. Permits UDP and sTCP communications.
GROUP	DISABLE ENABLE	ENABLE Enables the group discovery function. DISABLE Disables the group discovery function.
►GROUP NAME	The default value is blank.	 Characters that can be entered. A to Z, a to z, 0 to 9, half-size space, ! # \$ % & '() @ ^`_{} = " = [];,+ ~:?<>¥
USER DISCOVERY SERVER	DISABLE ENABLE	By setting up groups such that each NDI sender/receiver belongs to, you can specify a group as the target of the device discovery. You can specify multiple groups by separating the groups with commas.
		ENABLE Enables the external server setting. DISABLE Disables the external server setting.
►USER DISCOVERY SERVER IP	The default value is blank. In the case of DISABLE: 0.0.0.0	 If the "USER DISCOVERY SERVER" changes from [ENABLE] to [DISABLE], then the setting value returns to the default value. If you press the [SET] button in the [DISABLE] state, the settings configured in the [ENABLE] state are erased. If you press the [SET] button in the [ENABLE] state, during the IP settings are not configured, an error will occur. Until SET is executed, the previous setting values are kept as is.

Confirm the settings with the [SET] button.

NDI OUT SETTING

When AK-NP703 (STREAMING option) is not attached, this screen is disabled.

_ indicates factory default settings.

Item	Setting value	Setting details
MACHINE NAME	AK-UCU700	Sets the string of characters for the Machine Name and Source Name displayed when this device is discovered by an NDI receiving device.
		• Characters that can be entered. A to Z, a to z, 0 to 9, half-size space,-, _
SOURCE NAME	NDI Device	Sets the string of characters for the Machine Name and Source Name displayed when this device is discovered by an NDI receiving device.
		• Characters that can be entered. A to Z, a to z, 0 to 9, half-size space,-, _
PROTOCOL	TCP UDP	Sets the protocol to be used with the NDI receiving device. TCP Sets TCP as the protocol to be used with the NDI receiving device. Permits sTCP communications. UDP Sets UDP as the protocol to be used with the NDI receiving device. Permits UDP and sTCP communications. When multicast distribution is performed, the protocol must be fixed to UDP.
MULTICAST	DISABLE ENABLE	Configures the device to enable or disable multicast distribution with the NDI receiving device.
▶IP ADDRESS	239.192.0.30 223.0.0.0 to 239.255.255.255	Sets the IP address.

indicates factory default settings.

ltem	Setting value	Setting details
▶ SUBNETMASK	 224.0.0.0 The first octet : 128, 192, 224, 240, 248, 252, 254, 255 The second octet : 0, 128, 192, 224, 240, 248, 252, 254, 255 The third octet : 0, 128, 192, 224, 240, 248, 252, 254, 255 The fourth octet : 0, 128, 192, 224, 240, 248, 252, 254, 255 	Sets the subnet mask.
►TTL/HOP LINIT	16 1 to 254	Sets the TTL.
GROUP	DISABLE ENABLE	By setting up groups such that each NDI sender/receiver belongs to, you can specify a group as the target of the device discovery. You can also specify multiple groups by separating the groups with commas. ENABLE Enables the group discovery function. DISABLE Disables the group discovery function.
►GROUP NAME	The default value is blank.	 Characters that can be entered. A to Z, a to z, 0 to 9, half-size space, ! # \$ % & ' () @ ^ `_{} - * = [];, . + ~:? <> ¥
USER DISCOVERY SERVER	DISABLE ENABLE	Sets the automatic discovery function for the NDI sources so that an external server can perform registration centrally. ENABLE Enables the external server setting. DISABLE Disables the external server setting.
►USER DISCOVERY SERVER IP	The default value is blank. In the case of DISABLE: 0.0.0.0	 If the "USER DISCOVERY SERVER" changes from [ENABLE] to [DISABLE], then the setting value returns to the default value. If you press the [SET] button in the [DISABLE] state, the settings configured in the [ENABLE] state are erased. If you press the [SET] button in the [ENABLE] state, during the IP settings are not configured, an error will occur. Until SET is executed, the previous setting values are kept as is.

Confirm the settings with the [SET] button.

SRT OUT SETTING(OP)

When AK-NP703 (STREAMING option) is not attached, this screen is disabled.

_ indicates factory default settings.

_

ltem	Setting value Setting details	
MODE	CALLER	CALLER
	LISTENER	Specify when specifying the server URL and port number of the transmission source to send requests to start transmission from this unit.
		LISTENER
		Specify when specifying the standby port when starting transmission externally.
DESTINATION URL	 <u>The default value is blank.</u> This is enabled when MODE is CALLER. 	Sets the URL or IP address of the connection target server when the MODE is set to CALLER.
DESTINATION PORT	30000 0 to 65535 • This is enabled when MODE is CALLER.	Inputs the port number (used for transmitting video from this unit) when the MODE is set to CALLER. Connects to the specified port.
►STREAM ID	 <u>The default value is blank.</u> This is enabled when MODE is CALLER. (a maximum of 512 characters) 	Inputs the STREAM ID when the MODE is set to CALLER. The input information is notified to the connection target during SRT distribution.Characters that can be entered.
		A to Z, a to z, 0 to 9
▶PORT	2020 1024 to 65535 • This is enabled when MODE is CALLER.	Inputs the port number (used when this unit is waiting to connect) when the MODE is set to LISTENER.
TTL/HOIP LIMIT	<u>64</u> 1 to 254	Sets the TTL/HOIP LIMIT value.
LATENCY(ms)	<u>20</u> 0 to 9999	Sets the time [ms] from when the video/audio is distributed to when it is played back on the receiving side.
ENCRYPTION	DISABLE AES128 AES256	DISABLE The video is distributed unencrypted. AES128 The video is encrypted with AES-128 and distributed. AES256 The video is encrypted with AES-256 and distributed.
PASSPHRASE	The default value is blank.	Sets the phrase for decoding the encrypted IP video.
	10 to 79 (Max.)	
CODEC	<u>H.264</u> H.265	The H.264 video format or the H.265 video format can be selected.
RATE CONTROL MODE	<u>CBR</u> VBR	CBR Distribution is performed at the bit rate set in Target bit rate. VBR With the bit rate set in Max bit rate as the maximum, the distribution is performed with the bit rate approaching that set in Target bit rate. Depending on the video distributed, the actual bit rate varies.
TARGET BIT RATE	4Mbps, 8Mbps, 10Mbps, <u>14Mbps</u> , 20Mbps, 24Mbps	Sets the target bit rate for the distribution.
MAX BIT RATE	4Mbps, 8Mbps, 10Mbps, <u>14Mbps,</u> 20Mbps, 24Mbps	Sets the maximum bit rate for the distribution. (Only enabled in the VBR case)
STREAMING	START STOP	When the MODE is CALLER, the operation is available.When the MODE is LISTENER, it is fixed to START.

Confirm the settings with the [SET] button.

DNS SETTING

• Can be set when the AK-NP703 option board is attached.

Click [DNS SETTING] in the Network settings screen [NETWORK].

Makes settings for DNS.

Confirm the settings with the [SET] button.

The following information is required to configure network settings. Consult your network administrator or Internet service provider.

• Primary server address, secondary server address, and domain for DNS (when using DNS)

_ indicates factory default settings.

Item	Setting value	Setting details
DNS	DNS <u>MANUAL</u> AUTO	DNS Sets whether the DNS server address is to be acquired automati- cally (AUTO), or to be input manually (MANUAL).
	 PRIMARY SERVER ADDRESS 0.0.0.0 SECONDARY SERVER ADDRESS	 PRIMARY SERVER ADDRESS SECONDARY SERVER ADDRESS DOMAIN When using [MANUAL] for [DNS], enter the IP address for the DNS server. Consult the system administrator regarding the DNS server information.

HTTPS

Click [HTTPS] in the Network settings screen [NETWORK].

Makes settings for the HTTPS function.

The setting is confirmed with the [SET] button.

Refer to "HTTPS settings [HTTPS]" for information on how to set HTTPS.

___ indicates factory default settings.

Item	Setting value	Setting details
CRT KEY GENERATE	-	A CRT key (SSL encryption key) is generated by HTTPS.
		Generation of the CRT key is performed with the dialog displayed when you click the [EXECUTE] button.
		"Generating a CRT key (SSL encryption key) [CRT KEY GENERATE]" (see page 129)
SELF-SIGNED CERTIFICATE - GENERATE	-	A self-signed security certificate is generated by HTTPS. (Self-signed Certificate)
		Generation of the self-signed certificate (security certificate) is performed with the dialog displayed when you click the [EXECUTE] button.
		 "Generating a self-signed certificate (security certificate) [SELF-SIGNED CERTIFICATE - GENERATE]" (see page 130)
SELF-SIGNED CERTIFICATE - INFORMATION	-	This displays information relating to the self-signed certificate (security certificate).
		When you click the [CONFIRM] button, the information registered in the generated self-signed certificate (security certificate) is displayed in a dialog.
		Click the [DELETE] button to delete the generated self-signed certificate (security certificate).
CA CERTIFICATE - GENERATE	-	When using a security certificate issued by the Certificate Authority (CA)
CERTIFICATE SIGNING REQUEST		generated for application to the Certificate Authority (CA).
		Generation of the Certificate Signing Request (CSR) is performed with the dialog displayed when you click the [EXECUTE] button.
		"Generating a Certificate Signing Request (CSR) [CA CERTIFICATE - GENERATE CERTIFICATE SIGNING REQUEST]" (see page 132)

Item	Setting value	Setting details
CA CERTIFICATE - CA CERTIFICATE INSTALL	-	This displays information relating to server certificates (security certificates) issued by the Certificate Authority (CA), which are to be or are already installed.
		In the [File Open] dialog, which is displayed by clicking the [SELECT] button, select the file of the server certificate (security certificate) issued by the Certificate Authority (CA) and click the [EXECUTE] button to install the server certificate (security certificate).
		If the server certificate (security certificate) is installed, its file name will be displayed.
		"Installing a Server Certificate [CA CERTIFICATE - CA CERTIFICATE INSTALL]" (see page 133)
CA CERTIFICATE - INFORMATION	-	This displays information relating to the server certificate (security certificate).
		When you click the [CONFIRM] button, the information registered in the installed server certificate (security certificate) is displayed in a dialog. If the server certificate (security certificate) is not installed, the content of the generated Certificate Signing Request (CSR) is displayed.
		Click the [DELETE] button to delete the installed server certificate (security certificate).
CONNECTION	HTTP	This sets the method to connect to the unit.
	HTTPS	
HTTPS MODE	TLS1.2/1.3	This sets the encryption protocol when accessing the CCU with HTTPS.
	TLS1.2	
	TLS1.3	

NOTE

• To delete an enabled server certificate (security certificate), confirm that there is a backup to the said certificate in your personal computer or recording media. A server certificate (security certificate) will be needed to reinstall it.

HTTPS settings [HTTPS]

This encrypts access to the CCU and sets HTTPS to improve communication safety. Setting HTTPS is performed by following the procedures below. The setting is confirmed with the [SET] button.



- When using a server certificate, the process from applying to the Certificate Authority (CA) to issuing a server certificate must be performed between customers and the Certificate Authority (CA).
- Use either a self-signed certificate or server certificate. When simultaneously generating a self-signed certificate and installing a server certificate, this unit will prioritize the server certificate.

Generating a CRT key (SSL encryption key) [CRT KEY GENERATE]

NOTE

- A CRT key cannot be generated when self-signed certificates and server certificates are enabled.
- The size of the key that can be used by the Certificate Authority (CA) differs when using a server certificate. Confirm in advance the the size of the key that can be used.
- Generating a CRT key takes about 1 minute for 1024 bit and about 2 minutes for 2048 bit. Do not operate the web browser until CRT key generation is complete. Image display and communication speed may reduce while generating a CRT key.
- 1. Click the [EXECUTE] button in [CRT KEY GENERATE].

The [Current CRT key] dialog is displayed.

Current CRT Key		
CRT Key		
RSA key size		
Last modified	Not generated	History
CRT key generate		
RSA key size	 1024bit 2048bit *Generating a CRT key takes around 2 minu 	Execute tes.
		Close

The size of the generated CRT key is selected from [1024bit]/[2048bit] in [CRT key generate] – [RSA key size].

NOTE

When using a server certificate, the RSA key size must be in accordance with the demands of the Certificate Authority (CA) which will be applied to.

3. Click the [Execute] button.

CRT key generation starts.

When CRT key generation stops, the size of the CRT key generated by the [Current CRT key] and the date and time generation concluded will be displayed.

NOTE

- Perform procedures 1 to 3 to change (update) the generated CRT key. Because the CRT key, self-signed certificate and server certificate are enabled as a set, it will be necessary to once again generate a self-signed certificate or apply for a server certificate when the CRT key is changed.
- When the CRT key is changed, previous CRT keys are historically managed one at a time. Clicking the [History] button in the [CRT key] of the [Current CRT key] dialog displays the [Previous CRT key] dialog, allowing confirmation of the key size and the date and time generation was completed.

Clicking the [Apply] button in [Previous CRT key] allows the previous CRT key to be switched to the current CRT key.

Previous CRT key		
History		
RSA key size	2048bit	
Last modified	2023/01/01 00:00:00	Apply
		Close

Generating a self-signed certificate (security certificate) [SELF-SIGNED CERTIFICATE - GENERATE]

NOTE

- A self-signed certificate cannot be generated when a CRT key has not been generated.
- 1. Click the [EXECUTE] button in [SELF-SIGNED CERTIFICATE] [GENERATE]. [Self-signed Certificate - Generate] is displayed.



2. Input information relating to the certificate to be generated.

Items to be entered are as follows.

Item	Description	Maximum number of characters
Common Name	Sets a fixed CCU IP address.	
Country	Inputs the country code. (can be left blank)	2 characters: country code
State	Inputs the name of the state. (can be left blank)	128 characters
Locality	Inputs the name of the city. (can be left blank)	128 characters
Organization	Inputs the name of the organization. (can be left blank)	64 characters
Organizational Unit	Inputs the name of the organizational unit. (can be left blank)	64 characters
CRT key	Displays the size of the current CRT key and the date and time generation was completed.	

NOTE

- Characters that can be input for [Common Name], [Country], [State], [Locality], [Organization], [Organizational Unit] are 0 to 9, A to Z, a to z, and the following symbols: . _ + ().
- When connecting the CCU to the Internet, set the address or host name to be accessed from the Internet in [Common Name]. In this case, when accessing the CCU locally, a security warning screen is displayed every time the CCU is accessed even when a security certificate is installed.
- When inputting the IPv6 address in [Common Name], surround the address with []. e.g. [2001:db8::10]

3. Click the [OK] button after inputting the address.

A self-signed certificate is generated.

NOTE

• Information relating to the generated self-signed certificate is displayed in [SELF-SIGNED CERTIFICATE] - [INFORMATION]. The following is displayed depending on the status of the self-signed security certificate.

Displayed content	Description
Not generated	When the self-signed certificate is not generated
Invalid (Reason: CA Certificate installed)	When the self-signed certificate is already generated and the server certificate is already installedThe server certificate is enabled in this case.
[Common Name] of self-signed certificate	When the self-signed certificate is already generated and enabled

• When the [CONFIRM] button is clicked, the registered content of the generated self-signed certificate (security certificate) is displayed in the [Self-signed Certificate - Confirm] dialog.

Self-signed Certificate - Confirm	
Common Name	192.168.0.30
Country	
State	
Locality	
Organization	
Organizational Unit	
CRT key	
RSA key size	2048bit
Last modified	2023/01/01 00:00:00
	Close

- Click the [DELETE] button to delete the generated self-signed certificate (security certificate).
- When [HTTPS] is selected in [CONNECTION], the self-signed certificate (security certificate) cannot be deleted.

Generating a Certificate Signing Request (CSR) [CA CERTIFICATE - GENERATE CERTIFICATE SIGNING REQUEST]

NOTE

- A certificate signing request (CSR) cannot be generated if a CRT key has not been generated.
- To generate a certificate signing request (CSR), perform the following settings in advance in the Internet options of the Control Panel. Perform the following settings in [Control Panel] [Internet Options] [Security] tab.
 - Register the CCU as a "Trusted Site".
 - In [Level Customize], go to [File Download] from [Download] and set to [Enable].
- 1. Click the [EXECUTE] button in [CA CERTIFICATE GENERATE CERTIFICATE SIGNING REQUEST]. The [CA Certificate - Generate Certificate Signing Request] dialog is displayed.

CA Certificate - Generate Certific	cate Signing Request
Common Name	192.168.0.30
Country	
State	
Locality	
Organization	
Organizational Unit	
CRT key	
RSA key size	2048bit
Last modified	Not generated
	OK Cancel

2. Input information relating to the certificate to be generated.

Items to be entered are as follows.

Item	Description	Maximum number of characters
Common Name	Sets a fixed CCU IP address.	
Country	Inputs the country code.	2 characters: country code
State	Inputs the name of the state.	128 characters
Locality	Inputs the name of the city.	128 characters
Organization	Inputs the name of the organization.	64 characters
Organizational Unit	Inputs the name of the organizational unit.	64 characters
CRT key	Displays the size of the current CRT key and the date and time generation was completed.	

ΝΟΤΕ

- When using a server certificate, the information to be input must be in accordance with the demands of the Certificate Authority (CA), which will be applied to.
- Characters that can be input for [Common Name], [Country], [State], [Locality], [Organization], [Organizational Unit] are 0 to 9, A to Z, a to z, and the following symbols: . _ + ().

3. Click the [OK] button after inputting the address. The [Save As] dialog is displayed.

4. In the [Save As] dialog, assign a file name to the Certificate Signing Request (CSR) and save it in personal computer.

Apply to the Certificate Authority (CA) using the saved Certificate Signing Request (CSR).

NOTE

- A server certificate is issued for both the generated Certificate Signing Request (CSR) and CRT key. The issued server certificate can no longer be used when generating/updating the CRT key after applying to the Certificate Authority (CA).
- The Certificate Signing Request (CSR) generated by this unit is in a PEM format.

Installing a Server Certificate [CA CERTIFICATE - CA CERTIFICATE INSTALL]

NOTE

- A server certificate (security certificate) cannot be installed if a Certificate Signing Request (CSR) has not been generated.
- The server certificate must have been issued by the Certificate Authority (CA) in order to install it.
- 1. Click the [SELECT] button in [CA CERTIFICATE CA CERTIFICATE INSTALL]. The [Open File] dialog is displayed.
- 2. Select the server certificate file and click [Open]. Then click the [Execute] button. The server certificate is installed.

NOTE

• The name of the host registered to the installed server certificate is displayed in [CA CERTIFICATE] - [INFORMATION]. The following is also displayed depending on the status of the server certificate.

Displayed content	Description
Invalid	When the server certificate is not installed
[Common Name] of server certificate	When the server certificate is already installed and enabled
Expired	When the effective period of the server certificate has expired

• When the [CONFIRM] button is clicked, the content of the installed server certificate (security certificate) is displayed in the [CA Certificate - Confirm] dialog. (An asterisk is displayed in the [Organizational Unit] field only.)

CA Certificate - Confirm	
Common Name	192.168.0.30
Country	
State	
Locality	
Organization	
Organizational Unit	
CRT key	
RSA key size	2048bit
Last modified	2023/01/01 00:00:00
	Close

- Click the [DELETE] button to delete the installed server certificate (security certificate).
- When [HTTPS] is selected in [CONNECTION], the server certificate (security certificate) cannot be deleted.
- Perform STEP 1 to STEP 2 to update a server certificate.
- To delete an enabled server certificate (security certificate), confirm that there is a backup to the said certificate in your personal computer or recording media. A server certificate (security certificate) will be needed to reinstall it.
- The HTTPS function can no longer be used when the effective period of the server certificate has expired. In such a case, the connection method is changed to HTTP when the unit is restarted. Update the server certificate before its effective period expires.
- The effective period of the server certificate can be confirmed by double-clicking the server certificate file issued by the Certificate Authority (CA).

Setting the Connection Method [CONNECTION]

1. Set the method to access the CCU in [CONNECTION].

HTTP: Only HTTP connection is possible. HTTPS: Only HTTPS connection is possible.

NOTE

When using an HTTPS connection, network connection with the AK-HRP1010, AK-HRP1015, and AK-MSU1000 will be disabled.

2. Set the encryption protocol used with HTTPS in [HTTPS MODE].

- TLS1.2/1.3: Connection with TLS1.2/1.3 is possible.
- TLS1.3: Connection with TLS1.3 is possible.
- TLS1.2: Connection with TLS1.2 is possible.

3. Click the [SET] button.

The CCU restarts and access to the CCU via HTTPS is enabled.

NOTE

- This unit will restart if the connection method is changed.
- Using a self-signed certificate

A warning screen is displayed when accessing the CCU by HTTPS for the first time. Install the self-signed certificate (security certificate) in your personal computer in accordance with the screen instructions. Important the security certificate" (see page 135)

- Using a server certificate
 Install the Certificate Authority (CA) root certificate or intermediate certificate in your web browser in advance. Follow the
 Certificate Authority (CA) procedures to acquire and install root certificates and intermediate certificates.
- When accessing the CCU by HTTPS, the image display speed and frame rate of the moving image may reduce.
- When accessing the CCU by HTTPS, it may take some time for the images to be displayed.
- When accessing the CCU by HTTPS, images may be disturbed and sound may be interrupted.
- The maximum number of CCUs that can be connected simultaneously depends on the maximum image size and distribution format.

Accessing the CCU by HTTPS

- 1. Launch the web browser in your personal computer.
- 2. Input the CCU's IP address in the address bar of the web browser. Input address: https://192.168.0.10/



• If this unit is within a local network, make the settings for the proxy server from [Control Panel] - [Internet Options] so that the proxy server is not used for the local address.

3. Press the [Enter] key.

The security certificate is installed when the security warning screen is displayed.
 ➡ "Install the security certificate" (see page 135)
 Before the next screen appears, the user name and password input screen is displayed.



• When HTTPS is used, screens may be displayed slower.

Install the security certificate

When using HTTPS to access the CCU, the security warning screen will be displayed if the security certificate of the said CCU has not been installed in your personal computer. To prevent this warning screen being displayed, the security certificate must be installed in accordance with the following procedures. If it is not installed, the security warning screen will be displayed every time the CCU is accessed.

NOTE

- The security certificate will be installed to your personal computer based on the content set for [Common Name]. The content set for the "Host Name" must therefore match that set for the address/host name used to access the CCU. If the content differs, a security warning screen will be displayed every time the CCU is accessed.
- A security warning screen will be displayed if the CCU address/host name is changed even when a security certificate has been installed. Reinstall the security certificate.
- When connecting the CCU to the Internet, set the address or host name to be accessed from the Internet in [Common Name]. In
 this case, when accessing the CCU locally, a security warning screen is displayed every time the CCU is accessed even when a
 security certificate is installed.
- When the security certificate is correctly installed, an icon of the key will be displayed in the address bar of the web browser accessing the CCU.
- 1. Accessing the CCU by HTTPS.
- 2. When the security warning screen is displayed, click [Continue to this website (not recommended).].

The security certificate presented by this website was issued for a different website's address.
Security certificate problems may indicate an attempt to fool you or intercept any data you send to the
server.
We recommend that you close this webpage and do not continue to this website.
Click here to close this webpage.
Secontinue to this website (not recommended).
More information

NOTE

- When the above screen is displayed after accessing a device apart from the CCU or a website, there may be a security problem, so check this carefully.
- 3. Click [Certificate error] in the URL and then click [View certificates].



4. Click [Install Certificate...].

Certificate	×
General Details Certification Path	
Certificate Information	
This certificate is intended for the following purpose(s):	_
Ensures the identity of a remote computer	
Issued to: UE180	-
Issued by:	
Valid from 1/1/2018 to 12/27/2037	
Install Certificate Issuer Statem	ent
	ж

NOTE

- If [Install Certificate...] is not displayed, close Microsoft Edge and restart it by selecting [Run as Administrator].
 Right-click on [Start] [Microsoft Edge] and click [More] [Execute as Administrator].
- 5. Click [Next], which is displayed in the certificate import wizard.

← 🖉 Certificate Import Wizard	×
Welcome to the Certificate Import Wizard	
This wizard helps you copy certificates, certificate trust lists, and certificate revocation lists from your disk to a certificate store.	
A certificate, which is issued by a certification authority, is a confirmation of your identity and contains information used to protect data or to establish secure network connections. A certificate store is the system area where certificates are kept.	f
Store Location	
Current User Cocal Machine	
To continue, click Next.	
Next Ca	ncel

6. Select [Place all certificates in the following store] and click [Browse...].

÷	🚰 Certificate Import Wizard	
	Certificate Store	
	Certificate stores are system areas where certificates are kept.	
	Windows can automatically select a certificate store, or you can specify a location for the certificate.	
	Automatically select the certificate store based on the type of certificate	
	Place all certificates in the following store	
	Certificate store:	
	Browse	

7. Select [Trusted Root Certification Authorities] and click [OK].

	Personal	_	•
	Trusted Root Certification Authorities	5	
	Enterprise Trust	- I	
	Intermediate Certification Authorities		
	Trusted Publishers		
l	Untrusted Certificates		۲I
<		>	

8. Click [Next].

←	🖉 Certificate Import Wizard	х
	Certificate Store	
	Certificate stores are system areas where certificates are kept.	
	Windows can automatically select a certificate store, or you can specify a location for the certificate.	
	Automatically select the certificate store based on the type of certificate	
	Place all certificates in the following store	
	Certificate store:	
	Trusted Root Certification Authorities Browse	
	Next Cano	el

9. Click [Finish].

🗧 🖉 Certificate Import Wizard	×
Completing the Certificate Import Wizard	
The certificate will be imported after you click Finish.	
You have specified the following settings:	
Certificate Store Selected by User Trusted Root Certification Authorities	
Content Certificate	
Finish	Cancel
Finish	Cancel

10. Click [Yes].



When importing is finished, the "The import was successful." screen is displayed.

11. Click [OK].



Closing the web browser after importing the certificate and reconnecting to it will stop the "Certificate error" screen being displayed.

COMMON

Click [COMMON] in the Network settings screen [NETWORK].

Make shared network settings.

Confirm the settings with the [SET] button.

____ indicates factory default settings.

Item	Setting value	Setting details
EASYIP SETUP ACCOMMODATE PERIOD	20MIN. UNLIMITED	Sets the time allowed for network setting operations from EasyIP Setup Tool Plus.
		20MIN. Allows camera setting operations on the EasyIP Setup Tool Plus for just 20 minutes after start up of this unit.
		UNLIMITED Allows camera setting operations on the EasyIP Setup Tool Plus at any time.
		• Camera display on the EasyIP Setup Tool Plus is enabled all the time, and the camera screen can be opened.
		 Consult the network administrator regarding the address settings for the different servers.
EASYIP SETUP PLUS PLAIN TEXT USAGE	ENABLE DISABLE	Sets whether to enable or disable encryption of communications when communicating with EasyIP Setup Tool Plus.
		ENABLE Communications are sent and received as plain messages.
		DISABLE Communications are sent and received as encrypted mes- sages.

ROP account settings screen [ROP ACCOUNT SETTING]

Make the settings for user accounts required to connect to ROPs (AK-HRP1010 and AK-HRP1015) and an MSU (AK-MSU1000) from this unit in the ROP account settings screen [ROP ACCOUNT SETTING]. The accounts can also be deleted here. You can register a maximum of 12 users.

The ROP account settings screen [ROP ACCOUNT SETTING] consists of [USER LIST] and [ADD USER].

USER LIST

Click [USER LIST] in the ROP account settings screen [ROP ACCOUNT SETTING].

Information about accounts already registered is displayed.

To delete a registered user account, click the [DELETE] button to the right of the relevant account.

ADD USER

Registers a user account.

Item	Setting details	
USER NAME	 Enter the user name. Maximum number of characters. to 8 half-size characters Characters that can be entered. Half-size numeric characters: 0123456789 Half-size alphabetical characters (upper and lower cases): 	
	ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz • Symbols: #	
PASSWORD	Enter the password.	
RETYPE PASSWORD • Maximum number of characters 1 to 31 half-size characters		

User management screen [USER MNG.]

In the User management screen [USER MNG.], register authentication for users that can access this unit from personal computers and mobile terminals. Up to 3 users can be registered.

The User management screen [USER MNG.] consists of [USER LIST] and [ADD USER].

NOTE

• If user authentication fails more than 8 times within a 30-second period from the same IP address (personal computer), access to the unit will be disabled for a certain period.

USER LIST

Click [USER LIST] in the User management screen [USER MNG.].

Information about accounts already registered is displayed.

To delete a registered user account, click the [DELETE] button to the right of the relevant account.

NOTE

• If there is 1 registered account, you cannot delete that account.

ADD USER

Registers a user account.

Item	Setting details	
USER NAME	Enter the user name.	
	 Maximum number of characters. 1 to 32 half-size characters 	
	 Characters that can be entered. Half-size numeric characters: 0123456789 Half-size alphabetical characters (upper and lower cases): ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz Symbols: !#\$%'()*+,/?@[]^_`~ 	
ASSWORD Enter the password. ETYPE PASSWORD • Maximum number of characters 4 to 32 half-size characters		

Troubleshooting

Operation

Symptom	Cause and Measure		
Cannot turn the power on.	Is the power cable connected to the outlet properly?		
Cannot perform operation from an ROP connected with an IP	 Is the power on? If the LCD panel of this unit is off, the power of this unit is not turned on. 		
connection.	Is a valid IP address set on the unit?		
	Is the unit you want to operate selected correctly?		
	 Is the ROP connected correctly? Also refer to the operating instructions for the ROP. 		
	 The version of the ROP may need to be upgraded to enable support for the unit. Consult your dealer. 		
Cannot access from a web	Did you use a LAN cable of category 5e or higher for connecting to the [LAN] connector?		
browser	 Is the [LINK] LED of the [LAN] connector lit? If it is not lit, the unit is not connected to the LAN properly or the network of the connection destination is not operating properly. Check the LAN cable for a bad electrical contact and make sure the connections are correct. 		
	 Is the power on? If the LCD panel of this unit is off, the power of this unit is not turned on. 		
	Is a valid IP address set on the unit?		
	 Is the wrong IP address being accessed? (Windows) Using the Windows command prompt, execute ping [IP address which has been set in this unit] A reply returned from the unit signifies that there are no problems in operation. If a reply is not received, reboot the unit, and within 20 minutes change the IP address using the EasyIP Setup Tool Plus. 		
	 Is the wrong IP address being accessed? (Mac) Using the OS X terminal, execute > ping -c 10 [IP address which has been set in this unit] A reply returned from the unit signifies that there are no problems in operation. 		
	 Has 554 been set as the HTTP port number? For the HTTP port number, use a port number other than the following port numbers that are used by the unit. 20, 21, 23, 25, 42, 53, 67, 68, 69, 110, 123, 161, 162, 554, 995, 10669, 10670 		
	 Is the set IP address the same as that of another device? Check out the IP addresses of the unit, access devices (personal computer, controller, etc.) and any other cameras. 		
	 Does the subnet mask setting match the network subnet of the connection destination? Check out the subnet mask settings of the unit and access devices, and then consult with the network administrator. 		
	 Is the Web browser set to "Use a proxy server"? (When the unit and the personal computer are connected to the same subnet) If a proxy server has been set using the [proxy setting] of the web browser, it is recommended that a "Don't use proxy" address be selected as the unit's IP address setting. 		
	 Has the wrong default gateway been set for the unit? (When the unit and personal computer are connected to different subnets) Check out the default gateway that has been set for the unit, and then consult with the network administrator. 		

Sumatom	Cause and Measure		
The setting values of the [Setup] screen are not updated	Press the [F5] key on the personal computer keyboard to request the setting values to be obtained. (Windows)		
properly or are not displayed.	• Press the [Command] + [R] key on the personal computer keyboard to request the setting values to be obtained. (Mac)		
	Delete the temporary Internet files as described below. (Mac)		
	 Select [Safari] - [Empty Cache] in Safari. Click the [Delete] button under [Browsing history]. 		
	Delete the temporary Internet files as described below. (Windows)		
	 Select [] - [History] in Microsoft Edge. Select [] - [Clear browsing data]. Select the [Browsing history], [Download history], [Cookies and other site data], and [Cached images and files] checkboxes and click [Clear now]. 		
	 A port of the unit may be being filtered by, for example, the firewall function of the antivirus software. Change the HTTP port number of the unit to a port number that is not filtered. 		
It is not possible to download the setting files	 Are pop-up windows blocked? (Windows) Perform the following. In Microsoft Edge, select []-[Settings]. Select [Cookies and site permissions]. Select [Pop-ups and redirects]. Turn off [Block(recommended)]. 		
The authentication screen appears repeatedly	 Has the user name or password been changed? If you change the user name and password of the user currently logged in from a separate web browser while the unit is being accessed, the authentication screen appears each time the screen display is changed. Close the web browser, and initiate access to the unit again. 		
Screens displays take a while to appear	 Is the unit on the same local network being accessed via proxy? Configure the web browser settings so that access is not performed via proxy. 		
	 Are multiple users accessing the unit's IP images at the same time? When multiple users access the unit's IP images at the same time, images may take some time to appear, and the frame rate of the IP images may decrease. 		

Web Screen

Depending on the OS installed on the personal computer, the following may occur. If a problem occurs, take the corresponding measure. Performing the following solutions will not affect the operation of other applications.

The "information bar" described in the following explanations refers to the message bars that appear in Microsoft Edge. (Windows) The information bar appears at the bottom of Microsoft Edge.

This website wants to install the following add-on: 'nwov4Stetup' from 'Panasonic System Networks Co., Ltd.'. What's the risk? Install ×		
Symptom	Cause and Measure	
The following message appears in the information bar. [This website wants to run the following add-on: 'WebVideo Module' from 'Panasonic System Networks Co.,Ltd.'.]	Select [Allow].	
The following message appears in the information bar. [This website wants to install the following add-on: 'nwcv4SSetup.exe' from 'Panasonic System Networks Co.,Ltd.'.]	 Select [Install]. When the security warning window appears, click the [Install] button. 	
The IP images do not match the display frames	 Images may not appear correctly if their DPI settings are 120 DPI or higher. Right-click on the desktop of the personal computer, click [Display settings] - [Change the size of text, apps, and other items], and select [100% (Recommended)]. 	
	 Images may not appear correctly if the zoom level is set to anything other than 100% in Microsoft Edge. Go to [] - [Zoom] in Microsoft Edge and click [-] and [+] to set to [100%]. 	

Reference

Connector pin assignment table

Front panel

[INTERCOM] connector (page 16: 2)

HA16PRH-5S (Hirose Electric Co., Ltd.)

Pin No.	Function	Remarks
1	SHIELD	Carbon MIC: -1 dB
2	TALK	 Dynamic MIC: -5 dB Select [DYN], [ECM], or [CBN] in [MIC TYPE] that can be accessed by selecting [CCU INTERCOM TALK] in the [AUDIO] menu.
3	SHIELD	
4	RECEIVE	
5	NC	

Rear panel

[TALLY OUT] connector (page 19: 8)

HR10A-7R-4SC (Hirose Electric Co., Ltd.)

Pin No.	Function	Specifications	Remarks
1	GND	Ground	
2	TALLY R OUT	Open collector output	
3	TALLY G OUT	Open collector output	"Example of tally and alarm output connections" (see page 144)
4	ALARM	Open collector output	

Example of tally and alarm output connections


[COMMUNICATION] connector (page 19: 3)

JBY-25S-1A3F(LF)(SN) (J.S.T. Mfg. Co., Ltd.)

Pin No.	Function	Flow of signal	Remarks
1	INCOM ENG OUT (H)	CCU→SYSTEM	0 dBm, 600 Ω (4 W) / 1 V [p-p], 200 Ω (RTS)
2	INCOM ENG OUT (C)	CCU→SYSTEM	4 W/RTS/CLRCOM
3	INCOM ENG (GND)		Selected using a menu
4	INCOM ENG IN (H)	SYSTEM→CCU	
5	INCOM ENG IN (C)	SYSTEM→CCU	
6	PGM IN (H)	SYSTEM→CCU	0 dBm/-20 dBm, 600 Ω
7	PGM IN (C)	SYSTEM→CCU	Selected using a menu
8	PGM IN (GND)		
9	GND		
10	NC		
11	R TALLY IN (H)	SYSTEM→CCU	ON: Short/TTL(H)/24 V
12	R TALLY IN (C)	SYSTEM→CCU	OFF: Open/TTL(L)/0 V
13	GND		
14	INCOM PROD OUT (H)	CCU→SYSTEM	0 dBm, 600 Ω (4 W) / 1 V [p-p], 200 Ω (RTS)
15	INCOM PROD OUT (C)	CCU→SYSTEM	4 W/RTS/CLRCOM
16	INCOM PROD (GND)		Selected using a menu
17	INCOM PROD IN (H)	SYSTEM→CCU	
18	INCOM PROD IN (C)	SYSTEM→CCU	
19	PGM2 IN (H)	SYSTEM→CCU	0 dBm/-20 dBm, 600 Ω
20	PGM2 IN (C)	SYSTEM→CCU	Selected using a menu
21	PGM2 IN (GND)		
22	YL TALLY IN (H)	SYSTEM→CCU	ON:
23	YL TALLY IN (C)	SYSTEM→CCU	Short/TTL(H)/24 V
24	G TALLY IN (H)	SYSTEM→CCU	
25	G TALLY IN (C)	SYSTEM→CCU	Open/TTL(L)/0 V

Example of tally input connections



*1: Equivalent circuit

[ROP] connector (page 19: 2)

HR10G-10R-10SC (71) (Hirose Electric Co., Ltd.)

Pin No.	Function	Flow of signal
1	ROP CONT (H)	CCU→ROP
2	ROP CONT (C)	CCU→ROP
3	ROP DATA (H)	ROP→CCU
4	ROP DATA (C)	ROP→CCU
5	NC	
6	NC	
7	NC	
8	NC	
9	+16 V OUT	CCU→ROP
10	GND	

Connector of cable

HR10A-10P-10P (73)



[MSU] connector (page 19: 1)

HR10G-10R-10SC (71) (Hirose Electric Co., Ltd.)

Pin No.	Function	Flow of signal
1	MSU CONT (H)	CCU→MSU
2	MSU CONT (C)	CCU→MSU
3	MSU DATA (H)	MSU→CCU
4	MSU DATA (C)	MSU→CCU
5	TALLY R	CCU→MSU
6	TALLY G	CCU→MSU
7	HEAD POWER	CCU→MSU
8	ALARM 1	CCU→MSU
9	ALARM 0	CCU→MSU
10	GND	

• Connector of cable HR10A-10P-10P (73)



[MIC1] and [MIC2] connectors (page 19: 9)

HA16RV-3PG(76) (Hirose Electric Co., Ltd.)

Pin No.	Function	Flow of signal	Remarks
1	SHIELD		0 dBm, 600 Ω
2	НОТ	CCU→SYSTEM	
3	COLD	CCU→SYSTEM	

• When connecting to an unbalanced input terminal of an external device, connect to it as shown in the diagram below.



• Some commercially available conversion connectors and conversion cables have pin 3 shorted to pin 1. Using such a conversion connector or conversion cable will cause a failure.



[CAMERA] connector (page 19: 10)

AK-UCU700P/E, AK-UCU710P/E: OPS2404-PR (Tajimi Electronics Co., Ltd.) AK-UCU700PS/ES, AK-UCU710PS/ES: FXW.3K.93C.TLM (LEMO)

Pin No.	Function	Flow of signal
1	Optical fiber	$CAM\toCCU$
2	Optical fiber	$CCU\toCAM$
3	Control line	CCU←→CAM
4	Control line	CCU←→CAM
5	AC 240 V	$CCU \rightarrow CAM$
6	AC 240 V	$CCU\toCAM$

Front panel G/L indicator specifications

	REF-IN					
FORMAT(SDI OUT1-4)	1080/59.94i	1080/50i	1080/23.98PsF	1080/23.98p	1080/29.97p	
2160/59.94p	✓	×	×	×	✓	
2160/29.97p	✓	×	×	×	✓	
2160/23.98p	×	×	✓	✓	×	
1080/59.94p	✓	×	×	×	✓	
1080/29.97p	✓	×	×	×	✓	
1080/29.97PsF	✓	×	×	×	✓	
1080/23.98p	×	×	✓	✓	×	
1080/23.98PsF	×	×	✓	1	×	
1080/23.98p over 59.94p	✓	×	×	×	✓	
1080/23.98p over 59.94i	✓	×	×	×	✓	
1080/59.94p-120fps	✓	×	×	×	✓	
1080/59.94p-180fps	✓	×	×	×	✓	
1080/59.94p-240fps	✓	×	×	×	✓	
2160/50p	×	✓	×	×	×	
2160/25p	×	✓	×	×	×	
1080/50p	×	✓	×	×	×	
1080/25p	×	✓	×	×	×	
1080/50p-100fps	×	✓	×	×	×	
1080/50p-150fps	×	✓	×	×	×	
1080/50p-200fps	×	✓	×	×	×	

 \checkmark : Green light ×: Orange light -: Off

√: Green light ×: Orange light -: Off

	REF-IN				
FORMAT(SDI OUT1-4)	1080/25p	525/59.94i	525/59.94i with 10FLD	625/50i	No input
2160/59.94p	×	~	✓	×	-
2160/29.97p	×	1	✓	×	-
2160/23.98p	×	×	✓	×	-
1080/59.94p	×	~	✓	×	-
1080/29.97p	×	~	✓	×	-
1080/29.97PsF	×	✓	✓	×	-
1080/23.98p	×	×	✓	×	-
1080/23.98PsF	×	×	✓	×	-
1080/23.98p over 59.94p	×	✓	✓	×	-
1080/23.98p over 59.94i	×	~	✓	×	-
1080/59.94p-120fps	×	1	✓	×	-
1080/59.94p-180fps	×	1	✓	×	-
1080/59.94p-240fps	×	~	✓	×	-
2160/50p	✓	×	×	✓	-
2160/25p	✓	×	×	✓	-
1080/50p	✓	×	×	~	-
1080/25p	✓	×	×	~	-
1080/50p-100fps	✓	×	×	~	-
1080/50p-150fps	✓	×	×	~	-
1080/50p-200fps	✓	×	×	~	-

Appearance

Unit: mm (inch)



Specifications

Power supply	100 V - 240 V AC (\cap), 50 Hz/60 Hz
Power consumption	550 W (Without camera connected: 130 W)
Capacity for supplying power to a camera	240 V AC (\cap), 1.46 A , 50 Hz/60 Hz

indicates safety information.

Operating temperature	0 °C to 40 °C (32 °F to 104 °F)
Humidity	10% to 90% (no condensation)
Dimensions (Width×Height×Depth)	424 mm × 88.5 mm × 400 mm (16-11/16 inches × 3-15/32 inches × 15-3/4 inches) (excluding protrusions)
Weight	AK-UCU700 : Approx. 9.1 kg (20.02 lb) AK-UCU710 : Approx. 9.3 kg (20.46 lb)
	3G/HD-SDI 5 lines
Video output	12G/6G/3G/HD-SDI 2 lines
	HD-SDI 1 line
HD TRUNK output	3G/HD-SDI 1 line
AUX output	3G/HD-SDI 1 line
Return input	3G/HD-SDI 4 lines
HD TRUNK (prompter) input	3G/HD-SDI 1 line
Reference input	BB (black burst) / tri-level 1 line (automatic termination, connect to upper connector; BB signal and tri-level signal automatically recognized, with loop-through output)
Microphone output	0 dBm/600 Ω 2 lines (XLR, 3-pin, male)
	Intercom input/output (ENG / PROD, 0 dBm, 600 Ω (4 W) / 1 V [p-p], 200 Ω (RTS), 4 W / RTS / CLRCOM) 2 lines
Communication	PGM input (0 dBm/600 Ω) 2 lines
	Tally input (red, green, yellow) 1 input each
TALLY output	Tally output (red, green) Alarm output Output from each of the open collectors
ROP	RS-422 1 line, 16 V DC output
MSU	RS-422 1 line, GPI for control
LAN TRUNK	1 line
LAN	1 line
LCD monitor	3.5-inch LCD monitor, touch panel supported
MOIP (AK-UCU710 only)	SFP+/SFP28 slot 2 lines
DANTE (AK-UCU710 only)	RJ45 2 lines

The symbols on this product (including the accessories) represent the following:

 \sim AC I Power on

- O Power off
- NOTE
 - For details on the maximum lengths of connection cables, consult your dealer.

Inrush current, measured according to European standard EN55103-1, on initial switch-on: 3 A, after a supply interruption of 5 s: 80 A

Index

A

	Accessories	12
	AC power socket	19
	ALARM lamp	17
	AUDIO	60
	Auto displays	
	AUX OUT connector	19
	В	
	BAR ID	58
	С	
	CAMERA connector	19, 148
	CCU INTERCOM RECEIVE	61
	CCU INTERCOM TALK	61
	CCU VERSION	90
	COMMUNICATION	62
	COMMUNICATION connector	19, 145
	Cooling fan	19
	D	
	Dante connector	20
	DNS SETTING	05
	DNS SETTING	
	E	
	E EasylP Setup Tool Plus	
1	E EasyIP Setup Tool Plus	
	E EasyIP Setup Tool Plus H HD PHASE	
	E EasyIP Setup Tool Plus H HD PHASE HD SDI OUT connectors	
	E EasyIP Setup Tool Plus H HD PHASE HD SDI OUT connectors HD TRUNK OUT connector	
	E EasyIP Setup Tool Plus H HD PHASE HD SDI OUT connectors HD TRUNK OUT connector HTTPS	
	E EasyIP Setup Tool Plus H HD PHASE HD SDI OUT connectors HD TRUNK OUT connector HTTPS CA CERTIFICATE	
	E EasyIP Setup Tool Plus H HD PHASE HD SDI OUT connectors HD TRUNK OUT connector HTTPS CA CERTIFICATE CA CERTIFICATE INSTALL	
	E EasyIP Setup Tool Plus H HD PHASE HD SDI OUT connectors HD TRUNK OUT connector HTTPS CA CERTIFICATE CA CERTIFICATE INSTALL GENERATE CERTIFICATE SIGNING REQUEST	
	E EasyIP Setup Tool Plus H HD PHASE HD SDI OUT connectors HD TRUNK OUT connector HTTPS CA CERTIFICATE CA CERTIFICATE INSTALL GENERATE CERTIFICATE SIGNING REQUEST CONNECTION	
•	E EasyIP Setup Tool Plus H HD PHASE HD SDI OUT connectors HD TRUNK OUT connector HTTPS CA CERTIFICATE CA CERTIFICATE INSTALL GENERATE CERTIFICATE SIGNING REQUEST CONNECTION CRT KEY GENERATE	
•	E EasyIP Setup Tool Plus H HD PHASE HD SDI OUT connectors HD TRUNK OUT connector HTTPS CA CERTIFICATE CA CERTIFICATE INSTALL GENERATE CERTIFICATE SIGNING REQUEST CONNECTION CRT KEY GENERATE Security certificate	
	E EasyIP Setup Tool Plus H HD PHASE HD SDI OUT connectors HD TRUNK OUT connector HD TRUNK OUT connector HD TRUNK OUT connector CA CERTIFICATE CA CERTIFICATE INSTALL GENERATE CERTIFICATE SIGNING REQUEST CONNECTION CRT KEY GENERATE Security certificate SELF-SIGNED CERTIFICATE	
	E EasyIP Setup Tool Plus H HD PHASE HD SDI OUT connectors HD TRUNK OUT connector HD TRUNK OUT connector HTTPS CA CERTIFICATE CA CERTIFICATE INSTALL GENERATE CERTIFICATE SIGNING REQUEST CONNECTION CRT KEY GENERATE Security certificate SELF-SIGNED CERTIFICATE GENERATE	
	E EasyIP Setup Tool Plus H HD PHASE HD SDI OUT connectors HD TRUNK OUT connector HTTPS CA CERTIFICATE CA CERTIFICATE INSTALL GENERATE CERTIFICATE SIGNING REQUEST CONNECTION CRT KEY GENERATE Security certificate SELF-SIGNED CERTIFICATE GENERATE I	
	E EasyIP Setup Tool Plus	

INTERCOM163

INTERCOM264

INTERCOM connector.....16, 144

_	- 24
	L
	LAN
	LAN connector
	LAN TRUNK connector18
	LCD panel16, 39
	Μ
	MAINTENANCE
	Memory card access lamp17
	Memory card slot17
	Menu
	Displaying45
	Operations44
	MENU button17
	MIC connector
	MIC OUT
	MoIP FORMAT65
	MSU connector
	Ν
	ND/CC NAME
	NDI/SRT SETTING
	NETWORK
	NMOS SETTING
	0
	OPERATION
	Operation displays
	OPTION VERSION
	OUTPUT FORMAT
	Р
	PGM
	PGM LEVEL adjustment dial
	Picture monitor 21
	PM OPERATION STATUS
	PM VIEW SETTING
	POWER switch
	PROMPTER IN connector
	PTP SETTING
	R
	REE connectors 49
	RET1 IN to RET4 IN connectors
	ROP connector 19 146

S

SD CARD95	;
SELECT dial17	,
SETTING	5
SETUP87	,
SFP+/SFP28 slot20)
SFP1(PRIMARY)71	l
SFP1(PRIMARY)RX74	ŀ
SFP1(PRIMARY)TX72	2
SFP2(SECONDARY)77	,
SFP2(SECONDARY)RX80)
SFP2(SECONDARY)TX78	\$
SIGNAL GND terminal19)
SOURCE SETTING)
ST2110 SETTING70)
START UP	,
Status 26 to 36	5
Status displays25	5
Status display screen25	5
STREAM connector20)
SYSTEM93	5
SYSTEM MODE	2
т	
TALLY IN SETTING	3
TALLY OUT connector19, 144	ŀ
Text input	
CCU menu49)
LCD panel 43	3
U	
UHD/HS/HD SDI OUT connectors	3
W	
WARNING 22	2
Web Screen 07	,
JICS COLOGIT	

Panasonic Entertainment & Communication Co., Ltd. Web Site: https://pro-av.panasonic.net/en/

 ${\small \textcircled{C}}$ Panasonic Entertainment & Communication Co., Ltd. 2024