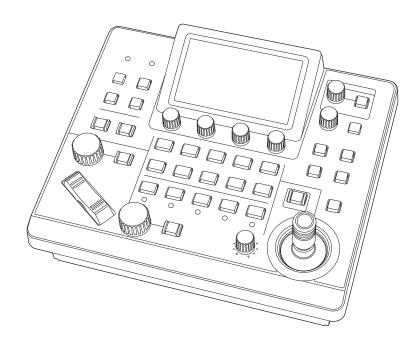


# **Operating Instructions**

Remote Camera Controller Model No. AW-RP60G



Before operating this product, please read the instructions carefully and save this manual for future use. Please carefully read the "Read this first!" (pages 3 to 4) of this Manual before use.



български	Посетете следния уебсайт относно информация за безопасността и важни уведомления за продукта.	Latviešu	Lai iegūtu informāciju par drošību un skatītu svarīgus paziņojumus par šo produktu, apmeklējiet tālāk norādīto tīmekļa vietni.
Hrvatski	Za sigurnosne informacije i važne obavijesti o proizvodu posjetite sljedeću internetsku stranicu.	Lietuvių	Jei reikia saugos informacijos ir svarbių pranešimų apie gaminį, apsilankykite toliau nurodytoje svetainėje.
Čeština	Na následujícím webu najdete bezpečnostní informace a důležité poznámky k tomuto produktu.	Polski	Informacje o bezpieczeństwie i ważne informacje o produkcie znajdują się w poniższej witrynie internetowej.
Dansk	Besøg følgende webside for sikkerhedsinformation og vigtige bemærkninger vedrørende produktet.	Português	Consulte o seguinte website para as informações de segurança e importantes notificações sobre o produto.
Nederlands	Ga naar de volgende website voor veiligheidsinformatie en belangrijke meldingen over het product.	Română	Vizitați următoarea pagină web pentru informații de securitate și notificări importante cu privire la produs.
Eesti	Toodet puudutava ohutusteabe ja oluliste märkuste saamiseks külastage järgmist veebilehte.	Slovensky	Pre bezpečnostné informácie a dôležité oznámenia súvisiace s produktom navštívte túto webovú stránku.
Suomi	Käy seuraavalla verkkosivulla saadaksesi turvallisuustietoja ja tärkeitä tietoja liittyen laitteeseen.	Slovenščina	Za varnostne informacije in pomembna obvestila v zvezi z izdelkom obiščite naslednje spletno mesto.
Ελληνικά	Για πληροφορίες σχετικά με θέματα ασφάλειας και σημαντικές ειδοποιήσεις που αφορούν το προϊόν σας, επισκεφτείτε τον ιστότοπο που ακολουθεί.	Svenska	Besök följande webbplats för säkerhetsinformation och viktiga meddelanden om produkten.
Magyar	A termékkel kapcsolatos biztonsági információkért és fontos értesítésekért látogasson el az alábbi weboldalra.	العربية	زر موقع الويب التالي لمعرفة أحدث معلومات السلامة والإخطارات الهامة بشأن المنتج.

#### https://pro-av.panasonic.net/manual/en/index.html

#### About trademarks and registered trademarks

- Microsoft<sup>®</sup>, Windows<sup>®</sup>, Windows<sup>®</sup> 7, Windows<sup>®</sup> 10 and Internet Explorer<sup>®</sup> are registered trademarks or trademarks of Microsoft Corporation in the United States, Japan, and/or other countries.
- Other company names and product names appearing in this manual are the registered trademarks or trademarks of their respective companies.

#### Copyrights

It is prohibited to transfer, copy, disassemble, decompile, and reverse engineer the software included with the unit, as well as export it in violation of the export laws.

#### Illustrations and screen images in this manual

- Illustrations of the unit and screens may appear different from the actual unit and screens.
- The screenshots are used in accordance with the guidelines of Microsoft Corporation.

#### Abbreviations

- The following abbreviations are used in this manual.
- Microsoft<sup>®</sup> Windows<sup>®</sup> 7 Professional SP1 32/64-bit is referred to as "Windows 7".
- In these instructions, the phrases "Integrated Camera" and "pan-tilt head and camera combination" are referred to collectively as "remote camera" except in places where specific equipment is mentioned.

Furthermore, the product numbers of equipment are referred to as follows.

Model number of unit	Model number given in manual
AW-RP60G	AW-RP60
AW-HE35SKED, AW-HE35SWED	AW-HE35
AW-HE38HKED, AW-HE38HWED, AW-HE38SKED, AW-HE38SWED, AW-HE38HKP, AW-HE38HWP, AW-HE38HKE, AW-HE38HWE, AW-HE38HKPC, AW-HE38HWPC	AW-HE38
AW-HE40HKP, AW-HE40HWP, AW-HE40HKE, AW-HE40HWE, AW-HE40SKP, AW-HE40SWP, AW-HE40SKE, AW-HE40SWE	AW-HE40
AW-HE42KP, AW-HE42WP, AW-HE42KE, AW-HE42WE	AW-HE42
AW-HN38HKP, AW-HN38HWP, AW-HN38HKE, AW-HN38HWE, AW-HN38HKPC, AW-HN38HWPC	AW-HN38
AW-HN40HKP, AW-HN40HWP, AW-HN40HKE, AW-HN40HWE, AW-HN40HKPC, AW-HN40HWPC	AW-HN40
AW-UE70KP, AW-UE70WP, AW-UE70KE, AW-UE70WE	AW-UE70
AW-UN70KP, AW-UN70WP, AW-UN70KE, AW-UN70WE, AW-UN70KPC, AW-UN70WPC	AW-UN70

# WARNING:

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

# WARNING:

- To reduce the risk of fire, do not expose this equipment to rain or moisture.
- To reduce the risk of fire, 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:

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.

indicates safety information.

#### FCC NOTICE (USA)

#### Supplier's Declaration of Conformity

Model Number: AW-RP60G

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.

### **NOTIFICATION (Canada)**

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

indicates safety information.

Turkey Only AEEE Yönetmeliğine Uygundur. AEEE Complies with Directive of Turkey.

## 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 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.



#### 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 municipality, dealer or supplier.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

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#### Overview

This unit is a remote camera controller for controlling remote camera (sold separately).

It can be used to control up to 200 remote cameras when IP connections are used, and up to 5 remote cameras when serial connections are used.

## Required personal computer environment

For the software used with the unit, use a personal computer specified on the following website.

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

#### Disclaimer of warranty

IN NO EVENT SHALL Panasonic Corporation 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:

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- (2) PERSONAL INJURY OR ANY DAMAGE CAUSED BY INAPPROPRIATE USE OR NEGLIGENT OPERATION OF THE USER;
- (3) UNAUTHORIZED DISASSEMBLE, REPAIR OR MODIFICATION OF THE PRODUCT BY THE USER;
- (4) INCONVENIENCE OR ANY LOSS ARISING WHEN IMAGES ARE NOT DISPLAYED, DUE TO ANY REASON OR CAUSE INCLUDING ANY FAILURE OR PROBLEM OF THE PRODUCT;
- (5) ANY PROBLEM, CONSEQUENTIAL INCONVENIENCE, OR LOSS OR DAMAGE, ARISING OUT OF THE SYSTEM COMBINED BY THE DEVICES OF THIRD PARTY;
- (6) ANY INCONVENIENCE, DAMAGES OR LOSSES RESULTING FROM ACCIDENTS CAUSED BY AN INADEQUATE INSTALLATION METHOD OR ANY FACTORS OTHER THAN A DEFECT IN THE PRODUCT ITSELF;
- (7) LOSS OF REGISTERED DATA CAUSED BY ANY FAILURE;
- (8) ANY DAMAGE OR CLAIMS DUE TO LOSS OR LEAKAGE OF IMAGE DATA OR SETTING DATA SAVED ON THIS UNIT 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.

- (1) Leakage or disclosure of information transmitted via this unit
- (2) Unauthorized use of this unit by a third person with malicious intent
- (3) 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. Panasonic does not accept any responsibility for damage of this type.

- 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.

#### User authentication

In order to protect device settings from exposure on the network, when connecting to a network, please enable user authentication to restrict access as appropriate.

#### **Restrictions on use**

It is recommended that the remote operation panel and all devices to be used with the remote operation panel be connected to the same network segment.

Events related to settings of network devices may occur if devices are connected to different segments, so verify operation carefully before placing devices into service.

#### Upgrade software

You can obtain the upgrade software from Service and Support on the following website.

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

For the upgrade procedure, refer to the instructions included with the download file.

#### File types handled by the unit

Camera configuration file	Configuration file data for the remote cameras.
RP configuration file	Configuration file especially for AW-RP60.

# **Precautions for use**

#### Observe the following in addition to the information included in "Read this first!".

#### Handle carefully

Do not drop the product, or subject it to a strong impact or vibration. Do not carry or move the product by the PAN/TILT lever or a dial. Doing so may cause a failure or accident.

# Use the product in an ambient temperature of 0 °C to 40 °C (32 °F to 104 °F)

Exposure to temperatures below 0 °C (32 °F) or above 40 °C (104 °F) could adversely affect Internal components.

#### Power off 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.

#### - Notes -

- 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.

#### Avoid open flames

Do not place candles and other sources open flame near the unit.

#### Avoid exposure to water

Make sure that the unit is not directly exposed to water. Exposure to water could damage it.

#### 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.

#### LCD panels

The pixels of the LCD panel are controlled to obtain high precision with 99.99% of the effective pixels. This leaves less than 0.01% of pixels that may not light or may remain on all the time. This is normal and will have no effect on the images you shoot.

There may be some unevenness on the screen depending on the image displayed.

Wiping or rubbing the LCD screen with a rough cloth may damage it.

LCD response time and brightness vary with operating temperature.

When the unit is left in a high-temperature and high-humidity location for prolonged periods, the LCD panel characteristics may change and result in uneven image quality.

Due to the characteristics of LCD panels, prolonged display of bright still images or prolonged operation in high-temperature or high-humidity environments may result in residual images, luminance reduction, burnin, banding, or panel defects and degradation that result in areas of permanently changed brightness.

In addition, avoid prolonged continuous use in the following types of environments.

- Confined areas with high temperature and humidity
- Near the exhaust vent of air conditioning equipment, etc.

Prolonged use involving the images and environments described above will accelerate deterioration of the LCD panel over time. To prevent deterioration over time and its related phenomena, we recommend the following.

- Do not display bright still images for prolonged periods.
  - Lower the brightness.
  - Turn off the power of the unit (and the power of the hub) when the unit is not in use.

Residual images will gradually disappear as different images are displayed.

#### PoE power supply

If both an external DC power supply and a PoE power supply are connected, the power supply from the external DC power supply will be used. If the external DC power supply is disconnected from a state where both power supplies were connected, the unit will restart automatically.

Use a category 5e cable or higher for the PoE connection. The maximum cable length for the connection between the power supply device and the unit is 100 m (328.1 ft). Using a cable that is category 5 or lower may result in decreased power supply performance.

When a personal computer that supports Gigabit Ethernet and a PoE injector are connected via a straight LAN cable, the unit may not be recognized by the personal computer. In such cases, connect the unit to the personal computer via a cross cable (or cross connection).

#### 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

• Insert the DC plug for the external DC power supply all the way in until it locks into place.

# R5-422 DC plug

• When the unit will not be used for a long time, turn off the power switch and remove the DC plug for the external DC power supply to save power.

#### 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.
- Install and use the unit in a stable location.
- Avoid installing the unit where it will be exposed to direct sunlight.
- Installing the unit in a location with a lot of humidity, dust, or vibration may result in a failure.

## Features

#### IP connections and serial connections supported IP connections

- Up to 200 remote cameras \*1 can be controlled via a network hub (switching hub).
- The unit's auto IP setting function can be used to automatically assign and control the IP addresses of the remote cameras \*1.
   \*1: Supported cameras:
  - AW-HE35, AW-HE38, AW-HE40, AW-HE42, AW-HN38, AW-HN40, AW-UE70, AW-UN70
- One remote camera can be simultaneously controlled from up to 5 units.

#### Serial connections

Up to 5 remote cameras can be connected.

#### Easy to operate the remote cameras

- The unit is equipped with dedicated levers, buttons, and dials for performing pan, tilt, zoom, and focus operations. Also, it has a control to adjust the speed of pan, tilt and zoom.
   Camera angle adjustment can be performed quickly and reliably.
- The unit is equipped with an AWB button and ABB button for executing automatic adjustment of the white balance and black balance.
- Rapid call up operations are available for shooting environments that frequently use presets.
   Also, the speed at which a remote camera moves to a preset position (PRESET SPEED) can be memorized for each preset

number of the unit. Thus, a remote camera can be operated at a different speed depending on the preset number in accordance with operation, enabling various image directing.

 The unit is equipped with PoE\*<sup>2</sup>, eliminating the need for additional power supply cabling.
 Connecting the unit to a network device that supports the PoE standard (IEEE802.3af compliant)\*<sup>3</sup> eliminates the need for power supply cabling on the unit.

- Notes

- If both an external DC power supply and a PoE power supply are connected, the power supply from the external DC power supply will be used. If the external DC power supply is disconnected from a state where both power supplies were connected, the unit will restart automatically.
- Use a category 5e cable or higher for the PoE connection. The maximum cable length for the connection between the power supply device and the unit is 100 m (328.1 ft). Using a cable that is category 5 or lower may result in decreased power supply performance.
- When a personal computer that supports Gigabit Ethernet and a PoE injector are connected via a straight LAN cable, the unit may not be recognized by the personal computer. In such cases, connect the unit to the personal computer via a cross cable (or cross connection).

\*2: Power over Ethernet. Referred to as "PoE" in this manual.

\*3: For details on PoE power supply devices for which operation has been verified, consult your local dealer.

## Supported remote cameras

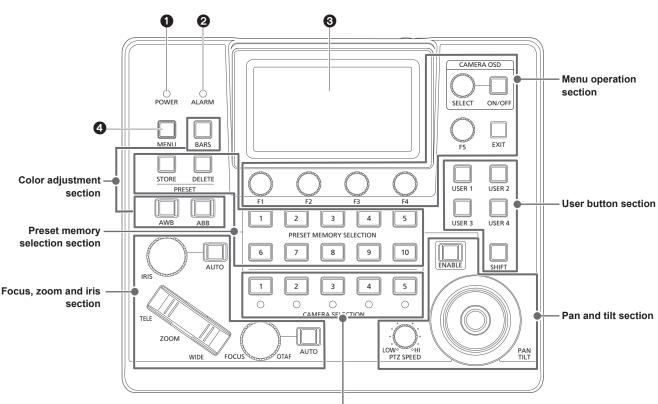
#### Integrated Camera

AW-HE35, AW-HE38, AW-HE40, AW-HE42, AW-HN38, AW-HN40, AW-UE70, AW-UN70

For details, visit the following website. https://pro-av.panasonic.net/

## Parts and their functions

#### **Control panel**



Camera selection section

#### • POWER indicator [POWER]

This turns on when the POWER switch (S) on the rear panel is set to ON while power is supplied.

#### **2** ALARM indicator [ALARM]

This turns on when an alarm has been received from the selected remote camera.

#### O LCD panel

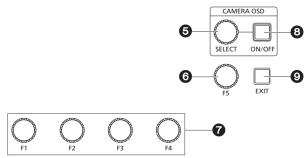
Displays the status screen or menu.

#### MENU button [MENU]

When you press the MENU button, the menu will be displayed on the LCD panel.

This is lit while the menu is displayed.

#### Menu operation section



#### CAMERA OSD SELECT dial [CAMERA OSD SELECT] When the CAMERA OSD ON/OFF button is lit, turn the dial to find the menu and then press it to select.

# on section

#### **6** F5 dial [F5] (menu operation dial)

When a menu screen is displayed on the LCD panel, turn the dial to find the menu and then press it to select.

# F1 dial [F1], F2 dial [F2], F3 dial [F3], F4 dial [F4] (menu operation dials)

Use these dials to manipulate the setting values displayed on the LCD panel of the unit.

Turn F1 to F4 dials to select setting values, etc.

When the status screen is displayed, use them to manipulate the item values displayed in the lower part of the LCD panel. When a menu screen is displayed, use them to manipulate the selected menu item values.

#### CAMERA OSD ON/OFF button

[CAMERA OSD ON/OFF] Use this to switch the CAMERA OSD ON or OFF.

#### **③** EXIT button [EXIT]

When you press the EXIT button while a menu screen is displayed on the LCD panel, the screen will return to the previous menu. When the status screen is displayed, if you press the EXIT button while manipulating the items that are allocated to the F1 through F4 dials, the operation of the dial will be canceled.

#### Camera selection section



#### Camera selection buttons

[CAMERA SELECTION 1 to 5] Use these to select the camera number belonging to the camera group that was set on the status screen.

• •	
Off	: The camera is not being selected
On (green)	: G_TALLY is ON and the camera is not being selected
On (red)	: R_TALLY is ON and the camera is not being selected
On (amber)	: The camera is being selected (The TALLY of the selected camera is displayed on the LCD panel.)

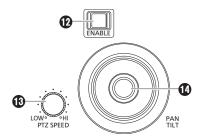
#### Camera status LED

These indicate the statuses of the remote cameras assigned to camera selection buttons [1] to [5].

For details, refer to "Selecting a remote camera" (page 22).

- Off : Not connected
- **On (amber)** : Camera standby
- On (green) : Connected

#### Pan and tilt section



#### PAN/TILT / IRIS / ZOOM / FOCUS ENABLE button

[ENABLE]

Use this to enable or disable operation of the PAN/TILT lever (①), IRIS dial (⑥), ZOOM button (⑥) and FOCUS dial (⑥).

On (amber)	: Operation of the PAN/TILT lever, IRIS dial, ZOOM button and FOCUS dial is enabled.
Off On (blue)	<ul> <li>The operation is disabled.</li> <li>Only operation of the IRIS dial is disabled (Operation of the PAN/TILT lever, ZOOM button and FOCUS dial is enabled.)</li> </ul>

#### PTZ SPEED dial [PTZ SPEED]

Use this to adjust the operation speed variation amount for PAN/TILT lever ( $(\mathbf{0})$ ) and ZOOM button ( $(\mathbf{0})$ ) operation.

 Turned clockwise
 : Operation is at a higher speed (HI)

 Turned counterclockwise
 : Operation is at a lower speed (LOW)

#### PAN/TILT lever

Use this to control the direction in which the currently selected remote camera points.

The movement speed differs depending on the angle to which the PAN/TILT lever is moved.

Moved left or right: The camera points to the left or right. Moved toward you or away from you:

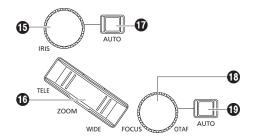
The camera points up or down.

• When the [PAN DIR] menu or the [TILT DIR] menu is set to [REVERSE], it is possible to change the relationship between the direction of lever tilt and the direction the camera moves.

#### - Note

• When turning on the power, do not touch until the status screen is displayed on the LCD panel.

#### Focus, zoom and iris section



#### IRIS dial [IRIS]

During manual iris (when the auto iris button [**①**] indicator is off), use this to manually control the lens iris.

During auto iris (when the auto iris button  $[\rm II]$  indicator is on), use this to adjust the convergence level of the auto iris of the remote camera.

 Turned clockwise
 : The lens iris opens (OPEN)

 Turned counterclockwise : The lens iris closes (CLOSE)

- When the [IRIS DIR] menu is set to [REVERSE], it is possible to change the relationship between the direction of operation from OPEN to CLOSE.
- Hold down the dial to close the IRIS.

#### COOM button [ZOOM]

Use this to adjust the lens zoom.

The zooming speed changes depending on the extent to which the button is pressed.

When the TELE side is pressed : Moves toward the telephoto end. When the WIDE side is pressed : Moves toward the wide-angle end.

- When the [ZOOM DIR] menu is set to [REVERSE], it is possible to change the relationship between the direction that the ZOOM button is pushed and the direction of the zoom operation of the lens.
  - Note
- When turning on the power, do not touch until the status screen is displayed on the LCD panel.

#### Auto iris button [IRIS AUTO]

Use this to set lens iris control to "Auto (auto iris)".

- On : Auto iris
- Off : Manual iris

#### FOCUS dial [FOCUS]

Use this to manually control the focus. During auto focusing (when the auto focus button [**(**)] indicator is on), operation is disabled.

 Turned clockwise
 The focus moves to the far end.

 Turned counterclockwise:
 The focus moves to the near end.

• When the [FOCUS DIR] menu is set to [REVERSE], it is possible to change the relationship between the direction that the FOCUS dial is turned and the direction of the focus operation.

#### One-touch auto focus button [OTAF]

When the FOCUS dial is pressed during manual focusing (when the auto focus button [1]) indicator is off), the auto focusing operation is performed to bring the subject into focus.

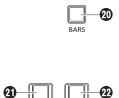
#### Auto focus button [FOCUS AUTO] Auto focus button [FOCUS AUTO] Auto focus Auto focus Auto focus Auto focus Auto Auto

Use this to set focus control to "Auto (auto focus)". During auto focusing, operation of the FOCUS dial (1) and one-touch auto focus button (1) is disabled.

On : Auto focus

Off : Manual focus

#### Color adjustment section



#### BARS button [BARS]

Use this to select the video signal output from the remote camera. Each press switches between the signal for the images shot by the camera and the color bar signal.

- Off : Outputs the signal for the images shot by the camera
- On : Outputs the color bar signal

#### AWB button [AWB]

Use this to execute automatic adjustment of the white balance and then register the adjustment result to memory A or B of the remote camera.

The AWB button indicator turns on during white balance adjustment and turns off when adjustment is successful.

The indicator blinks when adjustment is not possible.

 When automatic adjustment of the white balance ends, the R GAIN and B GAIN values become ±0.

#### ABB button [ABB]

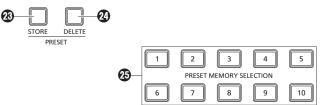
Use this to execute automatic adjustment of the black balance. When the button is pressed, adjustment is performed by

automatically closing the iris.

The ABB button indicator turns on during black balance adjustment and turns off when adjustment is successful.

The indicator blinks when adjustment is not possible.

#### Preset memory selection section



#### STORE button [PRESET STORE]

When holding down the STORE button, it will light up and a preset can be registered. When any of the preset memory selection buttons (③) is pressed in this condition, the registration of preset is complete. To cancel the preset registration, press the STORE button to turn it off.

#### ODELETE button [PRESET DELETE]

When holding down the DELETE button, the preset can be deleted. When any of the preset memory selection buttons (③) is pressed in this condition, the deletion of preset is complete. After the preset is deleted, the button turns off. To cancel DELETE before executing it, press the button.

#### Preset memory selection buttons [PRESET MEMORY SELECTION 1 to 10]

Use these to recall the preset of the preset group that was set on the status screen

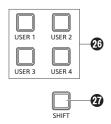
STORE button (28) is lit:

Use these to register the number of the preset in the preset group that was set in the status screen.

DELETE button (2) is lit:

Use these to delete the data of the preset in the preset group that was set in the status screen.

#### User button section



#### USER buttons [USER 1] to [USER 4]

Use these to access the functions assigned to USER 1 to USER 4.

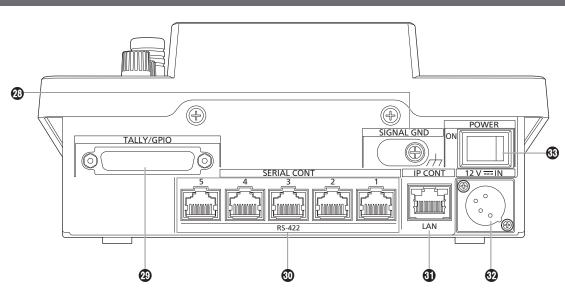
- Off : The function is disabled.
- On : The function is enabled.

#### SHIFT button [SHIFT]

When the button is lit, USER buttons 1 to 4 change to USER buttons 5 to 8.

The USER 5 to 8 are displayed in the USER settings on the status screen.

#### **Rear panel**



#### Orounding terminal [SIGNAL GND]

Connect this to the system ground.

#### TALLY/GPIO connector [TALLY/GPIO] JST: JBY-25S-1A3F(LF) (SN)

Connect an external device to this connector to receive tally information or send the camera selection status. Use a shielded cable to connect to the connector.

#### ③ SERIAL CONT 1 to 5 connectors [SERIAL CONT 1 to 5] (RJ-45)

Connect remote cameras that support a serial connection to these

connectors with LAN cables. Connect them with straight cables (category 5e or better shielded cable).

For details, refer to "Connections" (pages 15 to 17).

#### - Note

Do not connect cables for PoE power supply to these connectors.

#### IP CONT connector [IP CONT] (RJ-45) (10BASE-T/100BASE-TX)

Connect a remote camera or computer that supports an IP connection to this connector with a LAN cable.

When directly connecting a device to the unit, use a crossover cable (category 5e or better shielded cable).

When connecting via a hub (switching hub) etc., use a straight cable or a cross cable (category 5e cable).

For details, refer to "Connections" (pages 15 to 17).

DC IN socket [12V ---- IN] (DC 12 V) (XLR connector)

Connect an external DC power supply to this connector.
Use a DC cable with a length of max. 2 m (6.6 ft) (when using an AWG16 cable).

#### External DC power supply

Connect after making sure that the output voltage of the external DC power supply is compatible with the rated voltage of the camera.

Select an output amperage for the external DC power supply with a margin above the total amperage of the connected devices. The total amperage of connected devices can be calculated with the following formula.

#### Total power consumption + voltage

When the power of the camera is turned on, inrush current is generated. Insufficient power supply when turning on the power may cause a malfunction. We recommend that you use an external DC power supply that can assure double the capacity of the total power consumption of the camera and connected devices that are turned on by interlock when the power of the camera is turned on (such as lenses, wireless microphone receivers).

 Make sure of the pin alignment of the DC output terminal of the external DC power supply and the camera DC IN connector, and connect the polarity correctly.

If the +12 V power supply is mistakenly connected to the GND terminal, it may cause fire or malfunction.

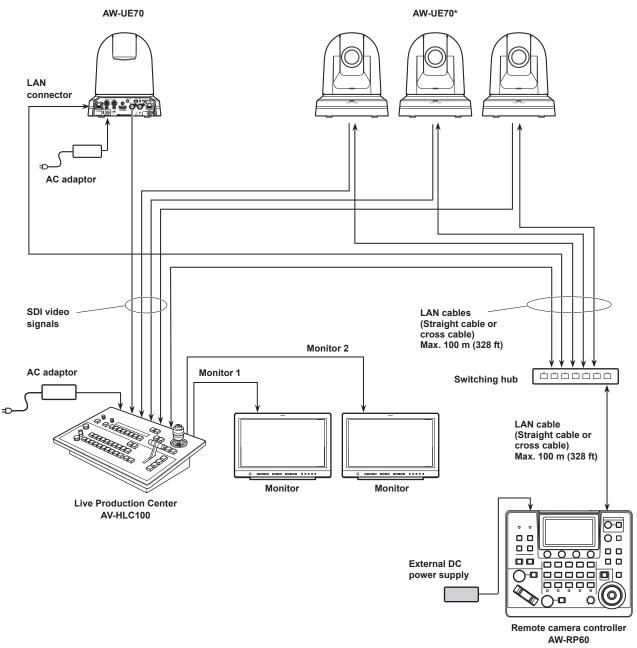
12V IN				
	1	GND		
	2	—		
	3	—		
	4	+12V		
		HA16RA-4P (77) Hirose Electric Co.		

#### BOWER switch [POWER]

When the POWER switch is set to the ON position, the POWER indicator (1) lights, and the unit can be operated.

#### **Examples of IP connections**

#### ■IP connections for remote cameras



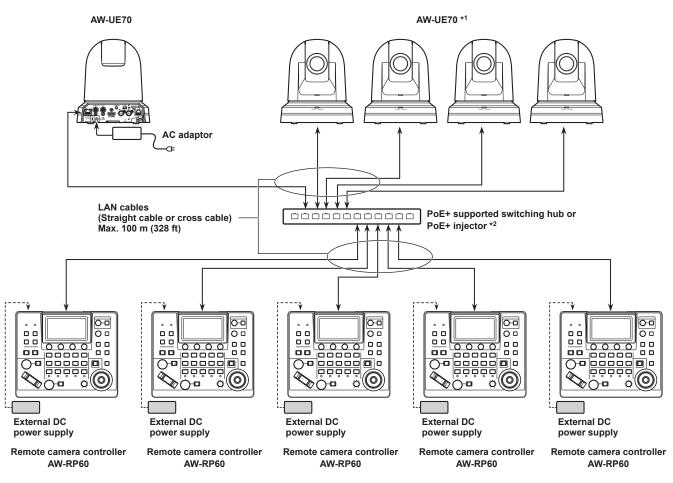
\*: The AC adaptor is not shown in the above figure.

• Use a category 5e cable for the LAN cable.

• It is possible to have a mixture of remote cameras connected via serial connections and remote cameras connected via IP connections.

• A total of up to 200 remote cameras connected via IP connections and serial connections can be registered as control destinations to one unit.

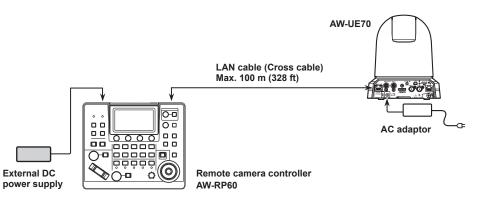
#### ■IP connections for multiple units and remote cameras



\*1: The AC adaptor is not shown in the above figure.

- \*2: Power can also be supplied to the AW-RP60 from a PoE supported switching hub, PoE injector, PoE+ supported switching hub, or PoE+ injector.
- Use a category 5e cable for the LAN cable.
- One remote camera can be simultaneously controlled from up to 5 units. (When IP connection)

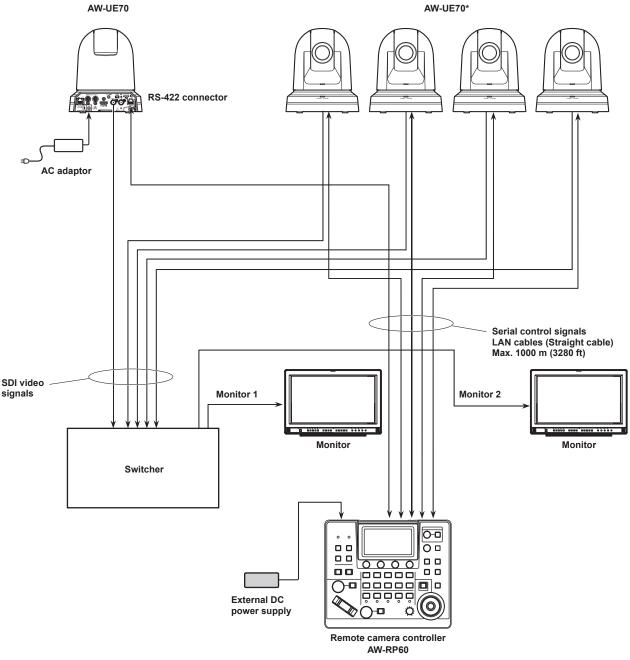
#### ■ IP connection for one unit and one remote camera



- Use a cross cable (category 5e cable) for the LAN cable.
- When connecting to any camera other than an AW-UE70, refer to the operating instructions for the camera.

## Examples of serial connections

#### Serial connections for remote cameras



\*: The AC adaptor is not shown in the above figure.

• Use a straight cable (category 5e cable) for the LAN cable.

• When serial connections are used, up to 5 remote cameras can be connected to one unit.

• It is possible to have a mixture of remote cameras connected via IP connections and remote cameras connected via serial connections.

• A total of up to 200 remote cameras connected via IP connections and serial connections can be registered as control destinations to one unit.

#### 1. Turn on the unit's power.

Set the POWER switch to the ON position.

Power is supplied to the unit, and the POWER indicator turns on.

• When the [AUTO POWER] item in the [CAMERA] SYSTEM menu is set to [ON], the power of the remote camera turns on when the power of the unit is turned on.

However, this only works when the remote camera is in the standby state.

For defails, refer to "How to turn on the power of the remote cameras" (page 19).

• Remote cameras are linked when the [CONNECT MODE] item in the [CONNECT SETTING] SYSTEM menu is set to either [Serial] or [LAN].

For details, refer to "Setting the connection types (serial/IP/ no connection) for remote cameras" (page 30).

#### 2. Select a remote camera.

Press a [CAMERA SELECTION] button to select the remote camera to control from the unit.

#### 3. Adjust the direction in which the remote camera points.

When the PAN/TILT / IRIS / ZOOM / FOCUS ENABLE button [ENABLE] indicator is on, use the PAN/TILT lever to adjust the direction in which the remote camera points.

- Note

• When turning on the power, do not touch until the status screen is displayed on the LCD panel.

#### 4. Adjust the zoom.

When the PAN/TILT / IRIS / ZOOM / FOCUS ENABLE button [ENABLE] indicator is on, use the ZOOM button to adjust the lens zoom.

When the TELE side is pressed, the zoom is set to the telephoto mode, and when the WIDE side is pressed, it is set to the wide-angle mode.

#### - Note

• When turning on the power, do not touch until the status screen is displayed on the LCD panel.

#### 5. Adjust the lens iris.

When the PAN/TILT / IRIS / ZOOM / FOCUS ENABLE button [ENABLE] indicator is on (amber), turn the IRIS dial to adjust the lens iris.

#### 6. Adjust the focus.

When the PAN/TILT / IRIS / ZOOM / FOCUS ENABLE button [ENABLE] indicator is on, turn the FOCUS dial to adjust the lens focus.

When the one-touch auto focus button is pressed during manual focusing, the mode switches to auto focusing mode temporarily, and the subject is brought into focus automatically.

 OTAF (one-touch auto focus) is enabled for remote cameras which are equipped with the OTAF function.

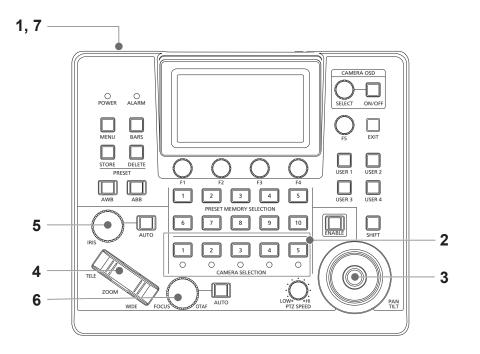
#### 7. Turn off the unit's power.

Set the POWER switch to the OFF position.

The unit's power is turned off, and the POWER indicator turns off.

- When the unit's power is turned off, the power of the connected remote cameras does not turn off.
- To turn off the power of the remote cameras, select [ALL OFF] or [GRP OFF] in the [CAM POWER] item of the [CAMERA] SYSTEM menu, and execute.

For details, refer to "How to turn off the power of the remote cameras" (page 20).



# How to turn on the power of the remote cameras

The power of the remote cameras in the standby state can be turned on from the unit.

- There are the following methods of turning on the power.
- Turning on the power one camera at a time
- Turning on the power of the cameras simultaneously with the turning on of the unit's power
- Turning on the power of multiple cameras
   Turning on the power of all the cameras
  - $\Diamond \mathsf{Turning}$  on the power of the selected camera group

Each of these methods is described in turn below.

#### Turning on the power one camera at a time

#### 1. Select the remote camera.

By holding down the applicable camera selection button [CAMERA SELECTION] for about 3 seconds, the name of the remote camera and the [ON (F2)] and [OFF (F3)] buttons are displayed on the LCD panel.

- Note

- This operation is available when the status screen is being displayed.
- 2. With the camera selection button held down, press the F2 dial.



Turning on the power of the cameras simultaneously with the turning on of the unit's power

- 1. Press the [MENU] button.
- 2. Select the [CAMERA] SYSTEM menu to display the [AUTO POWER] item.

C001 : AW-UE70			TALLY:
CAMERA			
CAM	AUTO	CAM	
POWER	POWER	LOCK	
NON	ON	—	

3. Turn the F2 dial to select [ON] and press the F2 dial. The power of remote cameras whose setting in the [CAM1] to [CAM200] item in the [CONNECT SETTING] SYSTEM menu is set to either [Serial] or [LAN] turns on when the unit's power is turned on.

Note

• Depending on the number of cameras connected, it may take some time before you can operate the unit.

#### Turning on the power of multiple cameras

#### 1. Press the [MENU] button. Press the [MENU] button to light it.

2. Select the [CAMERA] SYSTEM menu to display the [CAM POWER] item.

C001:AW-U	TALLY:		
CAMERA			
CAM	AUTO	CAM	
POWER	POWER	LOCK	
NON	ON	_	

Turning on the power of all the cameras

3. Turn the F1 dial to select [ALL ON] and press the F1 dial.

Turning on the power of the selected camera group

3. Turn the F1 dial to select [GRP ON] and press the F1 dial.

# How to turn off the power of the remote cameras

The power of the remote cameras can be turned off from the unit. There are the following methods of turning off the power.

- Turning off the power one camera at a time
- Turning off the power of multiple cameras
   Turning off the power of all the cameras

♦ Turning off the power of the selected camera group

Each of these methods is described in turn below.

#### Turning off the power one camera at a time

#### 1. Select the remote camera.

By holding down the applicable camera selection button [CAMERA SELECTION] for about 3 seconds, the name of the remote camera and the [ON (F2)] and [OFF (F3)] buttons are displayed on the LCD panel.

- Note

• This operation is available when the status screen is being displayed.

2. With the camera selection button held down, press the F3 dial.



#### Turning off the power of multiple cameras

- 1. Press the [MENU] button.
- 2. Select the [CAMERA] SYSTEM menu to display the [CAM POWER] item.

C001:AW-U	TALLY:			
CAMERA				
САМ	AUTO	CAM		
POWER	POWER	LOCK		
NON	ON	_		

- Turning off the power of all the cameras
- 3. Turn the F1 dial to select [ALL OFF] and press the F1 dial.
- ■Turning off the power of the selected camera group
- 3. Turn the F1 dial to select [GRP OFF] and press the F1 dial.

# Selecting a camera group

This unit allows you to register up to 200 remote cameras as control targets by configuring the connection settings for each of the camera numbers CAM1 to CAM200. To select a remote camera to control from these cameras, you need to select the camera group to which it belongs beforehand.

Camera group	Camera numbers	Camera group	Camera numbers
1 to 5	CAM1 to CAM5	101 to 105	CAM101 to CAM105
6 to 10	CAM6 to CAM10	106 to 110	CAM106 to CAM110
11 to 15	CAM11 to CAM15	111 to 115	CAM111 to CAM115
16 to 20	CAM16 to CAM20	116 to 120	CAM116 to CAM120
21 to 25	CAM21 to CAM25	121 to 125	CAM121 to CAM125
26 to 30	CAM26 to CAM30	126 to 130	CAM126 to CAM130
31 to 35	CAM31 to CAM35	131 to 135	CAM131 to CAM135
36 to 40	CAM36 to CAM40	136 to 140	CAM136 to CAM140
41 to 45	CAM41 to CAM45	141 to 145	CAM141 to CAM145
46 to 50	CAM46 to CAM50	146 to 150	CAM146 to CAM150
51 to 55	CAM51 to CAM55	151 to 155	CAM151 to CAM155
56 to 60	CAM56 to CAM60	156 to 160	CAM156 to CAM160
61 to 65	CAM61 to CAM65	161 to 165	CAM161 to CAM165
66 to 70	CAM66 to CAM70	166 to 170	CAM166 to CAM170
71 to 75	CAM71 to CAM75	171 to 175	CAM171 to CAM175
76 to 80	CAM76 to CAM80	176 to 180	CAM176 to CAM180
81 to 85	CAM81 to CAM85	181 to 185	CAM181 to CAM185
86 to 90	CAM86 to CAM90	186 to 190	CAM186 to CAM190
91 to 95	CAM91 to CAM95	191 to 195	CAM191 to CAM195
96 to 100	CAM96 to CAM100	196 to 200	CAM196 to CAM200

#### Selecting a camera group

1. Press the F2 dial on the status screen. The camera group [CAM GP] item is selected.

C001:AW-UE70				TALLY:	
CAM 1		C			0 T F
NO	USE I.	R1 S.		USER2 ND1	
NO				USER4 ND3	
PMEM PG	CAM GP	CAM GP SCEN		AWB	
1 - 10	1 - 5	SCEN	E1	AWB A	1

2. Turn the F2 dial to select the camera group.

#### 3. Press the F2 dial.

The camera group will be selected.

# Selecting a remote camera

You can press a camera selection button [CAMERA SELECTION] to select the remote camera to control.

When a camera selection button is pressed, the indicator of the pressed button turns on and the remote camera is selected.

The status of the lamp (camera status LED) below each button indicates the status of the remote camera that is allocated to the camera selection button [1] to [5].

#### • Camera status LED and remote camera status

LED status	Remote camera status	Connection between unit and remote camera
Off	<ul> <li>The connection type of the corresponding camera number is set to [NON].</li> <li>Power is not being supplied to the remote camera.</li> </ul>	IP connection/ serial connection
On (amber)	The remote camera is in the standby state. Turn the power on as described in "How to turn on the power of the remote cameras" (page 19).	IP connection/ serial connection
On (green)	The unit is connected to the remote camera.	IP connection/ serial connection

#### About camera selection buttons and camera status LED displays

#### Camera status LED

LED status	Remote camera state
Off	Not connected
On (amber)	Camera standby
On (green)	<ul> <li>Camera connected</li> <li>Multiple AW-RP60s connected to the camera</li> </ul>

#### • Camera selection buttons

Button lighting status	Remote camera state
Off	Unselected
On (green)	G_TALLY ON (camera not selected)
On (red)	R_TALLY ON (camera not selected)
On (amber)	<ul> <li>Selected</li> <li>The camera also changes to this status if a camera with R/G_TALLY ON is selected.</li> <li>When a camera with R/G_TALLY ON is selected, the TALLY information is displayed on the LCD panel.</li> </ul>

#### Displaying and operating the status screen

The status screen is displayed as the initial display when the power of the unit is turned on to start it up. The status screen displays the following information.

Camera numberIRIS, ZOOM, and FOCUS position

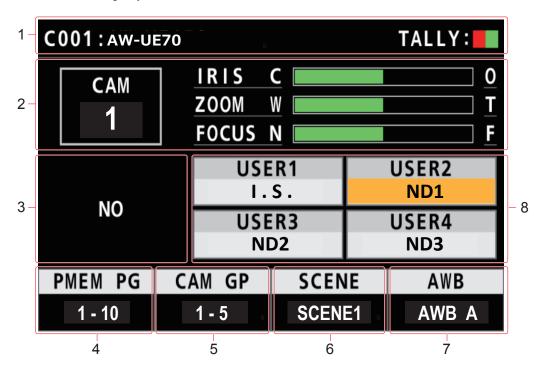
Information about allocations to USER buttons

#### 1. Display

The status screen is displayed as the initial display when the power of the unit is turned on to start it up. During operation, the status screen is displayed when all of the menu buttons in the menu operation section are off.

#### 2. Select the remote camera to be controlled with the camera selection buttons [CAMERA SELECTION]. The selected camera button lights.

When the camera selection button lights, you can control the remote camera from the unit.

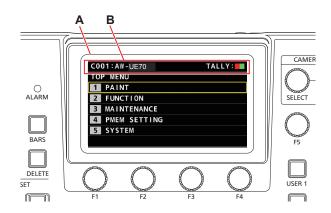


1	Camera name, TALLY information	Displays the currently selected camera name, and the status of TALLY (R_TALLY or G_TALLY). When the connection with the camera is via LAN, up to 10 characters of the name set on the camera can be displayed. Refer to the operating instructions for the camera for camera name settings.	
2	Camera number, lens position	Displays the currently selected camera number, and the status of IRIS, ZOOM, and FOCUS.	
3	ALARM	Displays alarm information notified from the currently selected camera.	
4	Preset memory group	Displays the preset memory group number. The settings of the preset memory group you have selected can be assigned to the [PRESET MEMORY SELECTION] buttons.	
5	Camera group	The camera group number is displayed. The settings of the preset memory group you have selected can be assigned to the [CAMERA SELECTION] buttons.	
6	SCENE	Displays the SCENE number. You can switch the SCENE.	
7	AWB mode	Displays the AWB mode. Use this to select the AWB mode.	
8	Information about function assignations	The information about functions assigned and status to USER1 to USER4 is displayed. When the [SHIFT] button is lit, this indicates the assignment information and status of USER5 through USER8.	

#### Displaying menus and the menu configuration

Use the [MENU] button and LCD panel on the unit to operate the menus.

Follow the procedure below to display the menu. The menu is displayed on the LCD panel (A) of the unit.



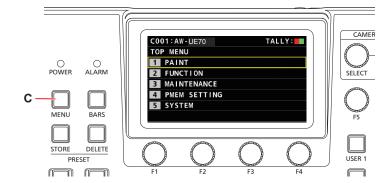
A. LCD panelB. Displays the currently selected camera number and name, and the status of TALLY.

#### **Operating procedure**

1. Press the [MENU] button to display the MENU screen.

For details, refer to "Menu group" (page 37).

• Pressing the [MENU] button again will turn the menu display off and status screen is displayed.



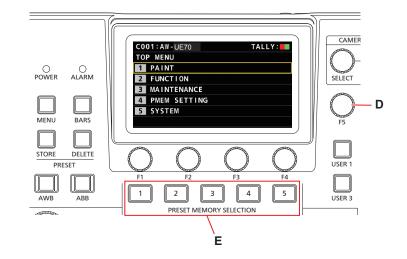
C. [MENU] button

2. Turn the [F5] dial to find the menu you want to set and then press the [F5] dial to select the menu.

or

#### Press a PRESET MEMORY SELECTION [1] to [5] button to select the menu you want to set.

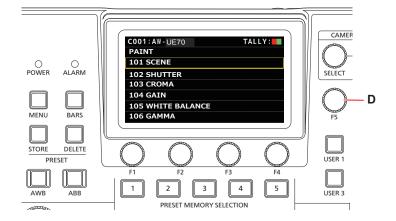
(Select [MAINTENANCE] menu > [RP SETTING] > [MENU BT MODE], when [PMEM OFF] is set, you can select the menu above.)



D. [F5] dial

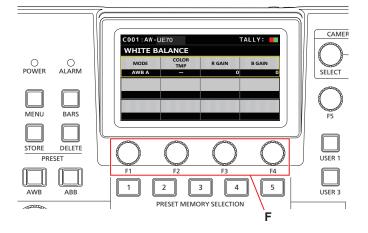
E. PRESET MEMORY SELECTION [1] to [5] buttons

3. Turn the [F5] dial to find the item you want to set and then press the [F5] dial to select the menu.



D. [F5] dial

4. Operate the [F1] to [F4] (F) menu operation dials to select the item you want to set and then press to confirm.



- F. Menu operation dials
- 5. Operate the [F1] to [F4] (F) menu operation dials to change the setting values, etc. and then press to confirm. Turn the dial at the same position as each item in the screen.

When the item you want to select is blinking, press the corresponding dial to select.

# Network settings of the unit

To control a remote camera connected via an IP connection from the unit, you need to set the network settings of the unit.

- Note

addresses.

 Correct operation is not possible if the same IP address already exists in the same network.
 The message "IP Duplicate" may be displayed during start up, etc., when duplicate IP addresses have been detected.
 Set IP addresses that are not duplicates of any existing IP

#### Setting the IP address of the unit

- 1. Press the [MENU] button.
- 2. Select the [RP IP SET] SYSTEM menu.
- 3. Operate the menu operation dials to select the [IP] item and then press to confirm.

C001:AW-UE70			TALLY:
RP IP SET			1/3
NETWORK SETTING			UPLOAD
STATIC			(push)
IP			
192	168	0	9
SUBNET			
255	255	255	0

• This is set to [192.168.0.9] by default.

4. Use the menu operation dials to set the IP address of the unit to one that is not a duplicate of that of another device.

Enter this in 4 blocks of numerals.

If [UPLOAD] in the first row is not executed, the changes are not updated.

 The "IP Duplicate" message is displayed when the connection destination IP address of the remote camera is duplicated, and it cannot be registered.

Refer to the "Settable addresses" (page 28).

- Notes

- In order for the setting to take effect, the unit must be restarted. Turn off the unit's power, and then turn it back on.
- Consult the network administrator before setting the IP address.

Setting the subnet mask

- 1. Press the [MENU] button.
- 2. Select the [RP IP SET] SYSTEM menu.
- 3. Operate the menu operation dials to select the [SUBNET] item and then press to confirm.

C001:AW-UE70			TALLY:
RP IP SET			1/3
NETWORK SETTING			UPLOAD
STATIC			(push)
IP			
192	168	0	9
SUBNET			
255	255	255	0

- This is set to [255.255.255.0] by default.
- 4. Use the menu operation dials to set the subnet mask of the unit.

Enter this in 4 blocks of numerals.

If [UPLOAD] in the first row is not executed, the changes are not updated.

• "Unavailable Subnetmask setting" is displayed if a value that cannot be set is entered.

Refer to the "Settable addresses" (page 28).

#### - Note

 In order for the setting to take effect, the unit must be restarted. Turn off the unit's power, and then turn it back on.

#### Setting the default gateway

- 1. Press the [MENU] button.
- 2. Select the [RP IP SET] SYSTEM menu.
- 3. Operate the menu operation dials to select the [GATEWAY] item and then press to confirm.

C001:AW-U	IE70		TALLY: 📕
RP IP SET			2/3
GATEWAY			
192	168	0	1
PORT	PORT	PORT	PORT
C1	C2	C3	C4
61000	61002	61004	61006
PORT			
C5			
61008			

• This is set to [192.168.0.1] by default.

# 4. Use the menu operation dials to set the default gateway of the unit.

Enter this in 4 blocks of numerals.

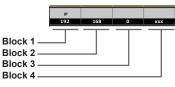
If you did not execute [UPLOAD] at the first line of first screen (1/3), the content you have changed cannot be set.

- Note

 In order for the setting to take effect, the unit must be restarted. Turn off the unit's power, and then turn it back on.

#### Ø Memo Ø

#### Settable addresses



• For the IP address, you can set values within the following ranges.

Block 3: 0 to 255 Block 4: 1 to 254	

However, [127.0.0.1] cannot be set even though it is within the above ranges.

• For the subnet mask, you can set values within the following ranges.

Block 1: 0 to 255	Block 2: 0 to 255
Block 3: 0 to 255	Block 4: 0 to 255

However, [0.0.0.0] and [127.0.0.1] cannot be set even though they are within the above ranges.

**Displaying the MAC address** 

- 1. Press the [MENU] button.
- 2. Select the [RP IP SET] SYSTEM menu.
- 3. Operate the menu operation dials to select the [MAC ADDRESS] item and then press to confirm.

C001:AW-U	E70		TALLY:	
<b>RP IP SET</b>			3/3	
	MAC AI	DDRESS		
	**_**_**	**_**_**		

• The MAC address can only be displayed. It cannot be changed.

To control remote cameras from the unit and use the function to link the unit, you need to set the connection settings in advance. There are two ways of configuring the connection settings. You can either configure the settings on the unit or use the setup software to configure the settings.

This section describes how to configure the settings on the unit. For details on how to use the setup software to configure the settings, refer to "Setup Software" (page 73).

#### - Notes

- All the remote cameras are set to the same IP address when they are shipped from the factory. Therefore, if multiple remote cameras left set to the factory default state are connected with IP connections and then operated from the unit, they will not operate properly.
- When another remote camera that is set to the same IP address as an existing remote camera is to be connected because, for example, the existing remote camera is being replaced, turn off the unit's power before making the connection. When the remote camera is connected without first turning off the unit's power, the remote camera may not operate properly.

#### Link settings

Selecting one of the camera numbers CAM1 to CAM200 on the unit identifies the remote camera to control. When the remote camera you are attempting to control is connected via an IP connection, you need to set an IP address that is not a duplicate of that of each of the remote cameras and associate each IP address and each camera number on the unit beforehand in order to perform control.

These association settings are referred to as "link settings" in this manual.

#### **Connection destination IP addresses**

The IP address for the unit to identify the connection target (remote camera) is referred to as the "connection destination IP address" in this manual.

One connection destination IP address is allocated for each of the remote cameras connected to the unit, from camera number CAM1 to CAM200, for a total of 200 addresses set in the unit.

The connection destination IP address for each camera number can be viewed in [SYSTEM] > [MANUAL IP SET/USER AUTH] menu.

#### Overview of related menus and operations

#### [SYSTEM] > [CONNECT SETTING]

Set the connection type (serial/IP/no connection) for the remote camera to be connected for each camera number.

#### [SYSTEM] > [AUTO IP SET] > [AUTO SET]

Use this menu when you want to configure the settings for linking with the remote cameras automatically. (Auto IP setting) There are the following two operation modes.

RENEW	Configures the link settings by the unit renewing the IP addresses set on the remote cameras.
KEEP	Configures the link settings by keeping the IP addresses set on the remote cameras and renewing the connection destination IP addresses set on the unit.

#### [SYSTEM] > [MANUAL IP SET/USER AUTH]

Use this menu when you want to check or manually change the connection destination IP address set for each camera number.

#### Setting the connection types (serial/IP/ no connection) for remote cameras

1. Set the connection types for camera numbers CAM1 to CAM200.

Display the menu items with [SYSTEM] > [CONNECT SETTING].

C001:AW-U	E70	TALLY:		
CONNECT	SETTING		1/17	
CAM SEL	CONNECT MODE			
1	Serial			
CAM1	CAM2	CAM3	CAM4	
Serial	NON	NON	NON	
CAM5	CAM6	CAM7	CAM8	
NON	NON	NON	NON	

#### 2. Set with the F1 dial and F2 dial.

You can specify the camera number (F1 dial) and the connection type (F2 dial) in the first row.

The rows from the second and so on display the connection type for each camera number and you can set them.

The connection type flashes when the setting is changed, so then press the dial to confirm the change.

**NON** : No connection (factory default)

Serial : Serial connection

- LAN : IP connection
- The SERIAL CONT connectors [1] to [5] for serial connections correspond to each of the camera numbers CAM1 to CAM5. The serial connection [Serial] setting cannot be selected for CAM6 to CAM200.

#### - Note

 When performing the steps described in "auto IP setting" (pages 30 to 34), set the target camera number to [NON].

# Setting the IP addresses automatically (auto IP setting)

When "auto IP setting" is executed, the settings for linking between the remote cameras connected within the same subnet as the unit are configured automatically.

The following explanations are split into configuring the settings for the first time (when the remote cameras and switcher are in the factory default state) and introducing additional remote cameras into an environment in which IP connections are already in use.

#### When configuring the settings for the first time

#### <Overview of operation>

With [SYSTEM] > [AUTO IP SET], set the [AUTO SET] item to [RENEW], then the link is set by executing SETTING in [EXEC]. When the [AUTO SET] item is [RENEW], the unit first searches within the same subnet. After this, each detected remote camera is allocated a camera number in order.

At this time, each remote camera IP address is overwritten with the connection destination IP address value set for each camera number in the unit.

#### Example:

```
    IP addresses set for remote cameras A, B and C (factory default
state).
```

Remote camera A : 192.168.0.10 Remote camera B : 192.168.0.10 Remote camera C : 192.168.0.10

- (2) Connection types set on the unit ([SYSTEM] > [CONNECT SETTING])
  CAM1 : NON
  - CAM2 : NON CAM3 : NON
- (3) Connection destination IP addresses set on the unit ([SYSTEM] > [MANUAL IP SET/USER AUTH])
   CAM1: 192.168.0.10
   CAM2: 192.168.0.11
   CAM3: 192.168.0.12

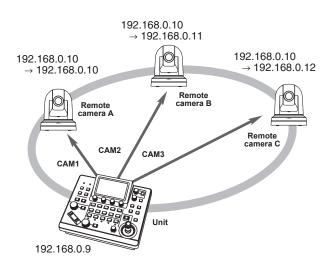
When the [AUTO SET] item is set to [RENEW] in this state, the IP addresses for remote cameras A to C are overwritten with the following values, and links are set with each of camera numbers CAM1 to CAM3.

**Remote camera A :** 192.168.0.10 **Remote camera B :** 192.168.0.11 **Remote camera C :** 192.168.0.12

#### 🖉 Memo 🧭

The IP address allocated to the camera is the next number from the IP address of this unit.

If the IP address setting for this unit is 192.168.0.9, then allocations start from 192.168.0.10.



• For the camera numbers for which "auto IP setting" is executed, the connection type becomes [LAN] and the camera numbers are excluded from the setting targets the next time "auto IP setting" is executed.

#### <Operating procedure>

#### - Note

• Before configuring the settings, check that the connection types of the remote cameras are [NON].

Connection type settings SYSTEM menu  $\rightarrow$  CONNECT SETTING  $\rightarrow$  [CAM1] to [CAM200] items

- 1. Connect the remote cameras and unit to the network within the same subnet.
- 2. Select the [AUTO IP SET] SYSTEM menu, turn the F1 dial to set the [AUTO SET] item to [RENEW], then press the F1 dial.

C001:AW-UE70		TALLY:	
AUTO IP SET		1/1	
AUTO SET	NEW	TOTAL	EXEC
RENEW			NON

The number of devices currently being managed by the unit (All remote cameras and the newly detected number of devices are displayed in [NEW] and [TOTAL].)

**NEW** : Newly detected cameras

**TOTAL** : The number of all devices currently being managed by the unit

#### Turn the [EXEC] (F4 dial) to select [SETTING], then press the F4 dial.

"Auto IP setting" starts. The "AUTO IP SETTING" message is displayed while "auto IP setting" is being performed.

 The "COMPLETE" message is displayed when the entire process is successful.
 The remote cameras automatically reboot and restart with the newly configured IP addresses.

The remote cameras can now be operated from the unit.

• The "SET UP ERR" message is displayed when IP address setting fails.

The cause of the problem is likely to be a network malfunction. Check the connection status of the hub and LAN cables, and then retry the "auto IP setting" operation.

# When introducing additional remote cameras into an environment in which IP connections are already in use

The settings can be configured using "auto IP setting" even when introducing additional remote cameras into an environment in which IP connections are already in use.

There are the following two methods.

- 1. Automatically changing the IP address set on the additional device to be introduced from the unit
- 2. Leaving the IP addresses of the additional devices to be introduced unchanged and automatically updating the connection destination IP addresses set on the unit

#### Automatically changing the IP address set on the additional device to be introduced from the unit

#### <Overview of operation>

By executing [RENEW] in the [AUTO SET] item of the [AUTO IP SET] SYSTEM menu, links are set.

With [RENEW], the unit first searches within the same subnet. Then, links are set between the newly detected remote cameras and camera numbers for which the connection type is set to [NON] on the unit. At that time, the IP addresses of the remote cameras are overwritten with the connection destination IP address values set on the unit.

#### Example:

- (1) Operation is being performed with the three remote cameras A, B and C set to CAM1, CAM2 and CAM3, respectively.
- (2) The new remote camera D (with the following IP address value) is added.

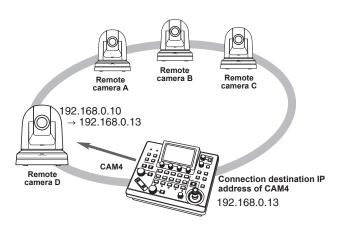
Remote camera D: 192.168.0.10

- (3) Connection types set on the unit ([SYSTEM] > [CONNECT SETTING])
  - CAM1: LAN
  - CAM2: LAN
  - CAM3: LAN
  - CAM4: NON
- (4) Connection destination IP address set on the unit ([SYSTEM] > [MANUAL IP SET/USER AUTH])

CAM4: 192.168.0.13

When [RENEW] is executed in this state, the IP address of remote camera D is overwritten with the following value, and a link is set to the camera number CAM4.

Remote camera D: 192.168.0.13



 When you connect a remote camera for which the IP address has been changed using a personal computer or other device after a link was set to the unit with auto IP setting and then execute [RENEW], the same IP address as was set when auto IP setting was executed the first time is set again for the corresponding camera.

#### <Operating procedure>

- 1. Connect the additional remote cameras to be introduced and the unit to the network within the same subnet.
- 2. Select the [AUTO IP SET] SYSTEM menu, turn the F1 dial to display [RENEW], then press the F1 dial.

C001:AW-UE70		TALLY:	
AUTO IP SET		1/1	
AUTO SET	NEW	TOTAL	EXEC
RENEW			NON

The number of devices currently being managed by the unit (All remote cameras and the newly detected number of devices are displayed in [NEW] and [TOTAL].)

- **NEW** : Newly detected cameras
- **TOTAL** : The number of all devices currently being managed by the unit + Number of newly detected devices

# 3. Set [EXEC] (F4 dial) to [SETTING], then press the F4 dial.

"Auto IP setting" starts.

The "AUTO IP SETTING" message is displayed while "auto IP setting" is being performed.

- The "COMPLETE" message is displayed when the entire process is successful.
  - The remote cameras are automatically rebooted, and they restart with the new IP addresses which were set.

The remote cameras can now be operated from the unit.

• The "SET UP ERR" message is displayed when IP address setting fails.

The cause of the problem is likely to be a network malfunction. Check the connection status of the hub and LAN cables, and then retry the "auto IP setting" operation.

#### Leaving the IP addresses of the additional devices to be introduced unchanged and automatically updating the connection destination IP addresses set on the unit

#### <Overview of operation>

By executing [KEEP] in the [AUTO SET] item of the [AUTO IP SET] SYSTEM menu, links are set.

With [KEEP], the unit first searches within the same subnet.

Then, links are set between the newly detected remote cameras and camera numbers for which the connection type is set to [NON] on the unit.

At that time, the IP addresses of the remote cameras are kept as is and the connection destination IP address values set on the unit are overwritten.

#### Example:

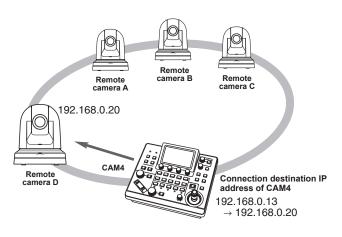
- (1) Operation is being performed with the three remote cameras A, B and C set to CAM1, CAM2 and CAM3, respectively.
- (2) The new remote camera D (with the following IP address value) is added.

Remote camera D : 192.168.0.20

- (3) Connection types set on the unit ([SYSTEM] > [CONNECT SETTING])
   CAM1 : LAN
   CAM2 : LAN
   CAM3 : LAN
   CAM4 : NON
- (4) Connection destination IP address set on the unit ([SYSTEM] > [MANUAL IP SET/USER AUTH])
   CAM4: 192.168.0.13

When [KEEP] is executed in this state, the IP address of remote camera D is not changed, the connection destination IP address set on the unit is overwritten with the following value, and a link is set to remote camera D.

Connection destination IP address of CAM4: 192.168.0.20



 If camera numbers for which the connection type is set to other than [Serial] include a camera number for which the connection destination IP address is set to the same value as the IP address of a detected remote camera, the connection destination IP address set on the unit is not updated. The connection destination IP address is kept as is and a link is set for the corresponding camera number and remote camera.

#### - Note

• Set the subnet mask of the unit and remote camera to the same value. If the subnet masks are different, no operations using the network will be possible.

#### <Operating procedure>

- 1. Connect the additional remote cameras to be introduced and the unit to the network within the same subnet.
- 2. Select the [AUTO IP SET] SYSTEM menu, turn the F1 dial to display [KEEP], then press the F1 dial.

C001:AW-UE70		TALLY:	
AUTO IP SET		1/1	
AUTO SET	NEW	TOTAL	EXEC
KEEP			NO?

The number of devices currently being managed by the unit (All remote cameras and the newly detected number of devices are displayed in [NEW] and [TOTAL].)

- **NEW** : Newly detected cameras
- **TOTAL** : The number of all devices currently being managed by the unit + Number of newly detected devices
- Set [EXEC] (F4 dial) to [SETTING], then press the F4 dial.

#### "Auto IP setting" starts.

The "AUTO IP SETTING" message is displayed while "auto IP setting" is being performed.

• The "COMPLETE" message is displayed when the entire process is successful.

The remote cameras can now be operated from the unit.

- The "IP Duplicate!" message is displayed when the IP address of an already running device and the IP address of a remote camera being added are the same, and the link setting is not made. Check the IP addresses of the additional remote cameras to be introduced, and then perform the "auto IP setting" operation again.
- The "SET UP ERR" message is displayed when IP address setting fails.

The cause of the problem is likely to be a network malfunction. Check the connection status of the hub and LAN cables, and then retry the "auto IP setting" operation.

#### 🖉 Memo 🧭

#### Connection device detection

- When the number of new devices detected by [RENEW] or [KEEP] exceeds the number of devices that can be registered (200 remote cameras), "C/S OVER!" appears.
   Auto IP setting can be executed even in this state, but IP addresses will be set only for the number of devices that can be registered.
- The unit may not be able to detect all of the remote cameras when, for example, multiple remote cameras are started at the same time. In this case, select [RETRY] in the [EXEC] item and press the F4 dial to retry.
- If the number of newly detected devices does not match the number of devices that are to actually be set, such as if the power of the remote camera was not on, etc., solve the problem, then select [RETRY] in the [EXEC] item and press the F4 dial to retry.

#### - Notes

- When adding another remote camera controller (AW-RP60 [this unit]), set an IP address that is not a duplicate of any IP address within the same network before making the connection.
- Execute "auto IP setting" when devices not applicable for auto IP setting (devices other than the remote cameras) are in a non-operation state in the same network. After executing "auto IP setting", connect these devices after checking that there is no duplicate IP address within the same network.

#### Manually setting the connection destination IP addresses (remote cameras) and port number

Use the following procedure when connecting (via a router) remote cameras whose IP addresses cannot be set by following the steps in "auto IP setting" or to manually configure the link settings for the unit and remote cameras.

- 1. Select the [MANUAL IP SET/USER AUTH] SYSTEM menu.
- 2. Turn the F1 dial to display the camera number whose settings you want to change and then press F1 dial to confirm.

C001:AW-UE70			TALLY:
MANUAL IP SET/USER AUTH			1/2
CAM SEL			
CAM1			
CAM IP			
192	168	0	10
PORT			SAVE
80			(push)

**3.** Set the IP address (remote camera) and PORT number. Operate [CAM SEL] in the first row to select the camera number for which you want to set the IP address that will be the connection

destination. The rows from the second and so on display the existing IP address and PORT number for each corresponding camera number.

Set the connection destination IP address in [CAM IP] in the second row.

The screen is divided into 4 blocks and these are set using the F1 to F4 dials.

Set the connection destination PORT number in [PORT] in the third row using the F1 dial.

Execute [SAVE] after setting. The set IP address and PORT number settings are not updated if [SAVE] is not executed.

Setting is also possible for camera numbers whose connection type is [NON] or [Serial] in [SYSTEM] > [CONNECT SETTING].

• This is set to the following value by default.

CAM1 : 192.168.0.10 ↓ CAM200 : 192.168.0.209

- When the IP address of the connection destination is changed, checks are made for duplicate IP addresses set in other items. The "IP Duplicate!" message is displayed when the IP address is duplicated.
- The "Unavailable network setting" message is displayed when the PORT number specified cannot be set.

#### Settable port numbers

You can set a value within the range of 1 to 65535.

However, the following values cannot be set even though they are within this range.

20, 21, 23, 25, 42, 53, 67, 68, 69, 110, 123, 161, 162, 995, 10669, 10670

- Note

 The IP addresses set on the remote cameras are not changed by this operation.

# Set the user account of the camera to be connected

Set the account information of the camera to be connected.

- Select the [MANUAL IP SET/USER AUTH] SYSTEM menu.
- 2. Operate the menu operation dials to select [USER NAME] and press to confirm.

C001:AW-UE70	TALLY:
MANUAL IP SET/USER AUTH	2/2
USER NAME	
PASSWORD	
RETYPE PASSWORD	SAVE
	NO?

# 3. Set the account which has already been set in the camera.

To enter the account, select a single character by turning the F1 dial and press each time to set it.

Press the F2 dial to delete the character.

- 4. Operate the menu operation dials to select the [SAVE] item.
- 5. Turn the F4 dial to select [Yes] and press the F4 dial to confirm.

If [SAVE] is not executed, the changes are not reflected on the unit.

# Initializing the connection destination IP addresses set on the unit

Use the following procedure to initialize the connection types and connection destination IP addresses set on the unit.

#### 1. Select the [RP INITIALIZE] MAINTENANCE menu.

2. Operate the menu operation dials to select [INIT ALL] and press to confirm.

C001:AW-UE70		TALLY:	
<b>RP INITIALIZE</b>		1/1	
INIT ALL	INIT		
NO?	NO?		

#### 3. Turn the F1 dial to execute initialization.

The settings for connecting with the remote cameras are initialized. When this operation is performed, all the settings on this unit are returned to the factory default conditions.

#### 🖉 Memo 🖉

- [CAM1] is initialized to [Serial].
- [CAM2] to [CAM200] are initialized to [NON].
- If the IP address of the unit is changed, the connection destination IP addresses are changed automatically.
  - IP addresses after the IP address of the unit are set for the camera numbers in ascending order.

# Menu

SHUTE         SHUTE (page 39)           CHROMA         S"CHROMA" (page 39)           GAIN         S"CHROMA" (page 40)           WHITE BALANCE         S"WHITE BALANCE" (page 40)           GAMMA         S"GAMMA" (page 41)           DRS         S"DRS" (page 41)           DTL         S"DTL" (page 42)           COLOR CORRECT         S"COLOR CORRECT" (page 42)           DNR         S"DNR" (page 44)           PEDESTAL         S"PEDESTAL           COLTRAST         S"CONTRAST" (page 45)           CONTRAST         S"CONTRAST" (page 46)           CAMERA INFO         S"CAMERA INFO" (page 48)           PTZ INFO1         S"PTZ INFO2" (page 50)           HOUSING         S"HOTESTON" (page 51)           CROP         S"CROP" (page 53)           RP SETTING         S"RP VERSION" (page 53)           RP VERSION         S"RP VERSION" (page 54)           RP VERSION         S"RP VERSION" (page 55)           GPI CAM SEL         S"GPI CAM SEL" (page 57)           GPO CAM G         S"GPI CAM SEL" (page 64)           GPI OCAM SEL         S"GPI OCAM SEL" (page 64)           GPI PMEM.G         S"GPI PMEM.G" (page 64)           GPI PMEM.G         S"GPI PMEM.G" (page 64)           GPI PMEM.G	Menu group		
CHROMA         ⇒ "CHROMA" (page 39)           GAIN         ⇒ "GAIN" (page 40)           WHITE BALANCE         ⇒ "WHITE BALANCE" (page 40)           GAMMA         ⇒ "GAMMA" (page 41)           DRS         ⇒ "DRS" (page 41)           DTL         ⇒ "DL" (page 42)           COLOR CORRECT         ⇒ "COLOR CORRECT" (page 42)           DNR         ⇒ "DNS" (page 44)           PEDESTAL         ⇒ "PEDESTAL" (page 45)           CONTRAST         ⇒ "CONTRAST" (page 45)           CONTRAST         ⇒ "CONTRAST" (page 46)           CAMERA INFO         ⇒ "DRS" (page 49)           PTZ INFO1         ⇒ "PTZ INFO1" (page 49)           PTZ INFO1         ⇒ "PTZ INFO1" (page 49)           PTZ INFO2         ⇒ "PTZ INFO2" (page 49)           PTZ INFO2         ⇒ "PTZ INFO1" (page 49)           PTZ INFO2         ⇒ "PTZ INFO1" (page 49)           PTZ INFO2         ⇒ "PTZ INFO1" (page 50)           HOUSING         ⇒ "HOUSING" (page 51)           CROP         ⇒ "CROP" (page 53)           RP VERSION         ⇒ "RP VERSION" (page 55)           GPI ALLY         ⇒ "GPI PMEM" (page 56)           GPIO CAM SEL         ⇒ "GPIO PMEM (Gage 61)           PMEM         ⇒ "GPI PMEM (Gage 61)           PMEM <th>PAINT</th> <th>SCENE</th> <th><math>\Rightarrow</math> "SCENE" (page 38)</th>	PAINT	SCENE	$\Rightarrow$ "SCENE" (page 38)
GAIN         ⇒ "GAIN" (program)           GAIN         ⇒ "GAIN" (page 40)           WHITE BALANCE         ⇒ "WHITE BALANCE" (page 40)           GAMMA         ⇒ "GAMMA" (page 41)           DRS         ⇒ "DRS" (page 41)           DTL         ⇒ "DIN" (page 42)           COLOR CORRECT         ⇒ "COLOR CORRECT" (page 42)           DNR         ⇒ "DNR" (page 43)           PEDESTAL         ⇒ "PEDESTAL" (page 45)           CONTRAST         ⇒ "CONTRAST" (page 46)           CONTRAST         ⇒ "CONTRAST" (page 46)           CAMERA INFO         ⇒ "VERE ASSICN" (page 46)           CAMERA INFO         ⇒ "CAMERA INFO" (page 48)           PTZ INFO1         ⇒ "PTZ INFO2" (page 49)           PTZ INFO1         ⇒ "PTZ INFO2" (page 50)           HOUSING         ⇒ "CROP" (page 51)           CROP         ⇒ "CROP" (page 51)           CROP         ⇒ "CROP" (page 53)           RP INTIALIZE         ⇒ "RP VERSION" (page 54)           RP VERSION         ⇒ "RP VERSION" (page 56)           GPI OCAM SEL         ⇒ "GPI OCAM SEL" (page 50)           GPI OCAM SEL         ⇒ "GPI OCAM SEL" (page 50)           GPI PMEM         ⇒ "GPI PMEM (page 66)           GPI PMEM G         ⇒ "GPI PMEM (page 61)		SHUTTER	⇒"SHUTTER" (page 39)
WHITE BALANCE         >*WHITE BALANCE" (page 40)           GAMMA         >*GAMMA" (page 41)           DRS         >*DRS" (page 41)           DTL         >*DTL" (page 42)           COLOR CORRECT         >*COLOR CORRECT" (page 42)           DNR         >*DNR" (page 44)           PEDESTAL         >*PEDESTAL" (page 45)           CONTRAST         >*CONTRAST" (page 46)           CONTRAST         >*CONTRAST" (page 46)           CAMERA INFO         >*USER ASSIGN" (page 46)           PTZ INFO1         >*PTZ INFO1" (page 48)           PTZ INFO1         >*PTZ INFO1" (page 49)           PTZ INFO1         >*PTZ INFO2" (page 50)           HOUSING         >*CAMERA INFO" (page 51)           CROP         >*CROP" (page 52)           MAINTENANCE         RP SETTING           RP VERSION         >*RP VERSION" (page 54)           RP VERSION         >*RP VERSION" (page 54)           GPIO CAM SEL         >*GPIO CAM SEL" (page 54)           GPIO CAM SEL         >*GPIO CAM SEL" (page 54)           GPIO CAM SEL         >*GPI PMEM" (page 56)           GPIO CAM SEL         >*GPI PMEM" (page 56)           GPIO CAM SEL         >*GPI PMEM" (page 56)           GPI PMEM         >*GPI PMEM" (page 56)		CHROMA	⇒"CHROMA" (page 39)
GAMMA $\Rightarrow$ "GAMMA" (page 41)DRS $\Rightarrow$ "DRS" (page 41)DTL $\Rightarrow$ "DRS" (page 42)COLOR CORRECT $\Rightarrow$ "CUOR CORRECT" (page 42)DNR $\Rightarrow$ "DNR" (page 44)PEDESTAL $\Rightarrow$ "PEDESTAL" (page 45)CONTRAST $\Rightarrow$ "CONTRAST" (page 46)FUNCTIONUSER ASSIGNUSER ASSIGN $\Rightarrow$ "USER ASSIGN" (page 46)PTZ INFO1 $\Rightarrow$ "PTZ INFO2" (page 48)PTZ INFO1 $\Rightarrow$ "PTZ INFO2" (page 50)HOUSING $\Rightarrow$ "ROP" (page 51)CROP $\Rightarrow$ "CROP" (page 52)MAINTENANCERP SETTINGRP VERSION $\Rightarrow$ "RP SETTING" (page 54)RP VERSION $\Rightarrow$ "RP VERSION" (page 55)GPIO CAM SEL $\Rightarrow$ "GPIO CAM SEL" (page 57)GPO CAM G $\Rightarrow$ "GPIO CAM SEL" (page 61)PMEMPMEM LISTPMEM LIST $\Rightarrow$ "PMEM LIST" (page 64)STING $\Rightarrow$ "SCHING" (page 65)SYSTEMCAMERAAUREA $\Rightarrow$ "CAMERA" (page 67)CONRECT SETTING $\Rightarrow$ "CAMERA" (page 67)CONRECT SETTING $\Rightarrow$ "CAMERA" (page 67)CONNECT SETTING $\Rightarrow$ "CAMERA" (page 67) <td></td> <td>GAIN</td> <td>⇒"GAIN" (page 40)</td>		GAIN	⇒"GAIN" (page 40)
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DTL         ⇒"DTL" (page 42)           COLOR CORRECT         ⇒"COLOR CORRECT" (page 42)           DNR         ⇒"DNR" (page 44)           PEDESTAL         ⇒"PDESTAL" (page 45)           CONTRAST         ⇒"CONTRAST" (page 45)           CONTRAST         ⇒"CONTRAST" (page 46)           CONTRAST         ⇒"CONTRAST" (page 46)           CONTRAST         ⇒"CONTRAST" (page 46)           CAMERA INFO         ⇒"CAMERA INFO" (page 48)           PTZ INFO1         ⇒"PTZ INFO2" (page 50)           HOUSING         ⇒"CROP" (page 51)           CROP         ⇒"CROP" (page 53)           MAINTENANCE         RP SETTING           RP SETTING         ⇒"RP VERSION" (page 53)           RP INITIALIZE         ⇒"RP VERSION" (page 55)           GPI TALLY         ⇒"GPI TALLY" (page 56)           GPIO CAM SEL         ⇒"GPIO CAM SEL" (page 57)           GPIO CAM SEL         ⇒"GPI PMEM" (page 60)           GPI PMEM         ⇒"GPI PMEM." (page 60)           GPI PMEM         ⇒"GPI PMEM." (page 61)           PMEM         ⇒"GPI PMEM." (page 61)           PMEM         ⇒"GPI PMEM." (page 66)           STING         ⇒"GPI PMEM." (page 66)           SYSTEM         CAMERA         ⇒"CAMERA" (page 67)		GAMMA	⇒"GAMMA" (page 41)
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DNR         ⇒ "DNR" (page 44)           PEDESTAL         ⇒ "PEDESTAL" (page 45)           CONTRAST         ⇒ "CONTRAST" (page 46)           USER ASSIGN         ⇒ "USER ASSIGN (page 46)           CAMERA INFO         ⇒ "CAMERA INFO" (page 48)           PTZ INFO1         ⇒ "PTZ INFO1" (page 49)           PTZ INFO2         ⇒ "PTZ INFO2" (page 50)           HOUSING         ⇒ "CROP" (page 51)           CROP         ⇒ "CROP" (page 53)           RP INITIALIZE         ⇒ "RP SETTING" (page 54)           RP VERSION         ⇒ "RP VERSION (page 55)           GPI TALLY         ⇒ "GPI TALLY" (page 56)           GPI CAM SEL         ⇒ "GPI CAM.G" (page 64)           GPO CAM.G         ⇒ "GPI PMEM" (page 60)           GPI PMEM         ⇒ "GPI PMEM.G" (page 61)           PMEM         ⇒ "GPI PMEM.G" (page 61)           PMEM         ⇒ "SETTING" (page 61)           STTING         ⇒ "SETTING" (page 61)           MAINTENANCE         CONNECT SETTING" (page 67)           CONNECT SETTING         ⇒ "CAMERA" (page 67)           CONNECT SETTING         > "CAMERA" (page 67)		DTL	⇒"DTL" (page 42)
PEDESTAL         > "PEDESTAL" (page 45)           CONTRAST         > "CONTRAST" (page 45)           FUNCTION         USER ASSIGN         > "USER ASSIGN" (page 46)           CAMERA INFO         > "CAMERA INFO" (page 48)           PTZ INFO1         > "PTZ INFO1" (page 49)           PTZ INFO2         > "PTZ INFO1" (page 50)           HOUSING         > "HOUSING" (page 51)           CROP         > "CROP" (page 52)           MAINTENANCE         RP SETTING         > "RP SETTING" (page 53)           RP VERSION         > "RP VERSION" (page 55)           GPI TALLY         > "GPI TALLY" (page 56)           GPI CAM SEL         > "GPI CAM SEL" (page 57)           GPO CAM.G         > "GPI PMEM" (page 60)           GPI PMEM         > "GPI PMEM" (page 61)           PMEM         > "SETTING" (page 61)           STING         > "SETTING" (page 65)           SYSTEM         CAMERA         > "CAMERA" (page 67)           CONNECT SETTING         > "CONNECT SETTING" (page 68)           MANUAL IP SET/USER AUTH         > "AUTO IP SET" (page 70)		COLOR CORRECT	⇒ "COLOR CORRECT" (page 42)
CONTRASTCONTRASTCONTRASTCONTRAST>"CONTRAST(page 45)FUNCTIONUSER ASSIGN>"USER ASSIGN" (page 46)CAMERA INFO>"CAMERA INFO" (page 48)PTZ INFO1>"PTZ INFO1" (page 49)PTZ INFO2>"PTZ INFO2" (page 50)HOUSING>"CROP> "CROP>"CROP" (page 51)CROP>"CROP" (page 52)MAINTENANCERP SETTINGRP SETTING>"RP SETTING" (page 54)RP VERSION>"RP VERSION" (page 55)GPI TALLY>"GPI TALLY" (page 56)GPI CAM SEL>"GPI CAM SEL" (page 57)GPO CAM.G>"GPI PMEM (page 60)GPI PMEM>"GPI PMEM.G" (page 61)PMEMSETTINGSYSTEMCAMERACONNECT SETTING>"CONNECT SETTING" (page 63)ANUAL IP SET/USER AUTH>"MAUNAL IP SET/USER AUTH" (page 69)AUTO IP SET>"AUTO IP SET" (page 70)		DNR	⇒"DNR" (page 44)
FUNCTION       USER ASSIGN       >"USER ASSIGN" (page 46)         CAMERA INFO       >"CAMERA INFO" (page 48)         PTZ INFO1       >"PTZ INFO1" (page 49)         PTZ INFO2       >"PTZ INFO2" (page 50)         HOUSING       >"CROP" (page 51)         CROP       >"CROP" (page 52)         MAINTENANCE       RP SETTING         RP VERSION       >"RP VERSION" (page 53)         RP VERSION       >"RP VERSION" (page 55)         GPI TALLY       >"GPI CAM SEL" (page 57)         GPO CAM.G       >"GPI PMEM (page 57)         GPI PMEM       >"GPI PMEM.G" (page 60)         GPI PMEM.G       >"GPI PMEM.G" (page 61)         PMEM       PMEM LIST       >"PMEM LIST (page 64)         SYSTEM       CAMERA       >"CAMERA" (page 67)         CONNECT SETTING       >"CONNECT SETTING" (page 68)         MAUAL IP SET/USER AUTH       >"MAUTO IP SET         AUTO IP SET       >"AUTO IP SET" (page 70)		PEDESTAL	⇒ "PEDESTAL" (page 45)
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PTZ INFO2⇒"PTZ INFO2" (page 50)HOUSING⇒"HOUSING" (page 51)CROP⇒"CROP" (page 52)MAINTENANCERP SETTINGRP SETTING⇒"RP SETTING" (page 53)RP INITIALIZE⇒"RP INITIALIZE" (page 54)RP VERSION⇒"RP VERSION" (page 55)GPI TALLY⇒"GPI TALLY" (page 56)GPIO CAM SEL⇒"GPO CAM.SEL" (page 57)GPO CAM.G⇒"GPI PMEM" (page 60)GPI PMEM⇒"GPI PMEM" (page 60)GPI PMEM.G⇒"GPI PMEM.G" (page 61)PMEM>"SETTING" (page 64)SETTING⇒"SETTING" (page 65)SYSTEMCAMERAAUTO IP SET⇒"MANUAL IP SET/USER AUTH" (page 69)AUTO IP SET⇒"AUTO IP SET" (page 70)		CAMERA INFO	⇒"CAMERA INFO" (page 48)
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CROP⇒"CROP" (page 52)MAINTENANCERP SETTING⇒"RP SETTING" (page 53)RP INITIALIZE⇒"RP INITIALIZE" (page 54)RP VERSION⇒"RP VERSION" (page 55)GPI TALLY⇒"GPI TALLY" (page 56)GPI CAM SEL⇒"GPIO CAM SEL" (page 57)GPO CAM.G⇒"GPO CAM.G" (page 59)GPI PMEM⇒"GPI PMEM" (page 60)GPI PMEM.G⇒"GPI PMEM.G" (page 61)PMEMPMEM LISTSYSTEMCAMERACAMERA⇒"CONNECT SETTING" (page 63)SYSTEMCAMERAAUTO IP SET⇒"AUTO IP SET" (page 70)		PTZ INFO2	⇒ "PTZ INFO2" (page 50)
MAINTENANCE       RP SETTING       ⇒ "RP SETTING" (page 53)         RP INITIALIZE       ⇒ "RP VERSION" (page 54)         RP VERSION       ⇒ "RP VERSION" (page 55)         GPI TALLY       ⇒ "GPI TALLY" (page 56)         GPIO CAM SEL       ⇒ "GPIO CAM SEL" (page 57)         GPO CAM.G       ⇒ "GPO CAM.G" (page 59)         GPI PMEM       ⇒ "GPI PMEM" (page 60)         GPI PMEM.G       ⇒ "GPI PMEM.G" (page 61)         PMEM       PMEM LIST       ⇒ "SETTING" (page 65)         SYSTEM       CAMERA       ⇒ "CAMERA" (page 67)         CONNECT SETTING       ⇒ "CONNECT SETTING" (page 68)         MANUAL IP SET/USER AUTH       ⇒ "MANUAL IP SET/USER AUTH" (page 69)         AUTO IP SET       ⇒ "AUTO IP SET" (page 70)		HOUSING	$\Rightarrow$ "HOUSING" (page 51)
RP INITIALIZE       >"RP INITIALIZE" (page 54)         RP VERSION       >"RP VERSION" (page 55)         GPI TALLY       >"GPI TALLY" (page 56)         GPIO CAM SEL       >"GPIO CAM SEL" (page 57)         GPO CAM.G       >"GPI PMEM" (page 60)         GPI PMEM       >"GPI PMEM" (page 60)         GPI PMEM.G       >"GPI PMEM.G" (page 61)         PMEM       >"SETTING" (page 64)         SETTING       >"SETTING" (page 65)         SYSTEM       CAMERA       >"CAMERA" (page 67)         CONNECT SETTING       >"MANUAL IP SET/USER AUTH       >"MANUAL IP SET/USER AUTH" (page 69)         AUTO IP SET       >"AUTO IP SET" (page 70)		CROP	⇒"CROP" (page 52)
RP VERSION $\Rightarrow$ "RP VERSION" (page 55)GPI TALLY $\Rightarrow$ "GPI TALLY" (page 56)GPIO CAM SEL $\Rightarrow$ "GPIO CAM SEL" (page 57)GPO CAM.G $\Rightarrow$ "GPO CAM.G" (page 59)GPI PMEM $\Rightarrow$ "GPI PMEM" (page 60)GPI PMEM.G $\Rightarrow$ "GPI PMEM.G" (page 61)PMEMPMEM LISTSETTING $\Rightarrow$ "SETTING" (page 65)SYSTEMCAMERACAMERA $\Rightarrow$ "CONNECT SETTING" (page 68)MANUAL IP SET/USER AUTH $\Rightarrow$ "MANUAL IP SET/USER AUTH" (page 69)AUTO IP SET $\Rightarrow$ "AUTO IP SET" (page 70)	MAINTENANCE	RP SETTING	$\Rightarrow$ "RP SETTING" (page 53)
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GPIO CAM SEL       > "GPIO CAM SEL" (page 57)         GPO CAM.G       > "GPO CAM.G" (page 59)         GPI PMEM       > "GPI PMEM" (page 60)         GPI PMEM.G       > "GPI PMEM.G" (page 61)         PMEM       PMEM LIST       > "PMEM LIST" (page 64)         SETTING       > "SETTING" (page 65)         SYSTEM       CAMERA       > "CAMERA" (page 67)         CONNECT SETTING       > "CONNECT SETTING" (page 68)         MANUAL IP SET/USER AUTH       > "MANUAL IP SET/USER AUTH" (page 69)         AUTO IP SET       > "AUTO IP SET" (page 70)		RP VERSION	⇒ "RP VERSION" (page 55)
GPO CAM.G       ⇒ "GPO CAM.G" (page 59)         GPI PMEM       ⇒ "GPI PMEM" (page 60)         GPI PMEM.G       ⇒ "GPI PMEM.G" (page 61)         PMEM       PMEM LIST         SETTING       ⇒ "PMEM LIST" (page 64)         SETTING       ⇒ "CAMERA" (page 65)         SYSTEM       CAMERA         MANUAL IP SET/USER AUTH       ⇒ "MANUAL IP SET/USER AUTH" (page 68)         AUTO IP SET       ⇒ "AUTO IP SET" (page 70)		GPI TALLY	⇒"GPI TALLY" (page 56)
GPI PMEM       ⇒ "GPI PMEM" (page 60)         GPI PMEM.G       ⇒ "GPI PMEM.G" (page 61)         PMEM       PMEM LIST       ⇒ "PMEM LIST" (page 64)         SETTING       ⇒ "SETTING" (page 65)         SYSTEM       CAMERA       ⇒ "CAMERA" (page 67)         CONNECT SETTING       ⇒ "CONNECT SETTING" (page 68)         MANUAL IP SET/USER AUTH       ⇒ "MANUAL IP SET/USER AUTH" (page 69)         AUTO IP SET       ⇒ "AUTO IP SET" (page 70)		GPIO CAM SEL	⇒"GPIO CAM SEL" (page 57)
GPI PMEM.G       ⇒ "GPI PMEM.G" (page 61)         PMEM       PMEM LIST       ⇒ "PMEM LIST" (page 64)         SETTING       ⇒ "SETTING" (page 65)         SYSTEM       CAMERA       ⇒ "CAMERA" (page 67)         CONNECT SETTING       ⇒ "CONNECT SETTING" (page 68)         MANUAL IP SET/USER AUTH       ⇒ "MANUAL IP SET/USER AUTH" (page 69)         AUTO IP SET       ⇒ "AUTO IP SET" (page 70)		GPO CAM.G	⇒"GPO CAM.G" (page 59)
PMEM       PMEM LIST       ⇒ "PMEM LIST" (page 64)         SETTING       ⇒ "SETTING" (page 65)         SYSTEM       CAMERA       ⇒ "CAMERA" (page 67)         CONNECT SETTING       ⇒ "CONNECT SETTING" (page 68)         MANUAL IP SET/USER AUTH       ⇒ "MANUAL IP SET/USER AUTH" (page 69)         AUTO IP SET       ⇒ "AUTO IP SET" (page 70)		GPI PMEM	⇒"GPI PMEM" (page 60)
SETTING       ⇒ "SETTING" (page 65)         SYSTEM       CAMERA         CONNECT SETTING       ⇒ "CAMERA" (page 67)         CONNECT SETTING       ⇒ "CONNECT SETTING" (page 68)         MANUAL IP SET/USER AUTH       ⇒ "MANUAL IP SET/USER AUTH" (page 69)         AUTO IP SET       ⇒ "AUTO IP SET" (page 70)		GPI PMEM.G	⇒"GPI PMEM.G" (page 61)
SYSTEM       CAMERA       ⇒ "CAMERA" (page 67)         CONNECT SETTING       ⇒ "CONNECT SETTING" (page 68)         MANUAL IP SET/USER AUTH       ⇒ "MANUAL IP SET/USER AUTH" (page 69)         AUTO IP SET       ⇒ "AUTO IP SET" (page 70)	PMEM	PMEM LIST	⇒"PMEM LIST" (page 64)
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MANUAL IP SET/USER AUTH⇒ "MANUAL IP SET/USER AUTH" (page 69)AUTO IP SET⇒ "AUTO IP SET" (page 70)	SYSTEM	CAMERA	$\Rightarrow$ "CAMERA" (page 67)
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		MANUAL IP SET/USER AUTH	
$\begin{array}{ c c } \hline RP \ IP \ SET & \Rightarrow "RP \ IP \ SET" \ (page 71) \end{array}$		AUTO IP SET	⇒"AUTO IP SET" (page 70)
		RP IP SET	$\Rightarrow$ "RP IP SET" (page 71)
TRACKING $\Rightarrow$ "TRACKING" (page 72)		TRACKING	$\Rightarrow$ "TRACKING" (page 72)

# PAINT

17 4141
⇒ "SCENE" (page 38)
$\Rightarrow$ "SHUTTER" (page 39)
⇒"CHROMA" (page 39)
$\Rightarrow$ "GAIN" (page 40)
⇒"WHITE BALANCE" (page 40)
⇒"GAMMA" (page 41)
⇒"DRS" (page 41)
$\Rightarrow$ "DTL" (page 42)
⇒"COLOR CORRECT" (page 42)
⇒"DNR" (page 44)
⇒ "PEDESTAL" (page 45)
⇒"CONTRAST" (page 45)

### SCENE

C001:AW-UE70		TALLY:
SCENE		1/1
SCENE		
SCENE1		

Item	Setting details	
SCENE	Selected here is the shooting mode that matches the shooting situation.	

#### ■ SHUTTER

• The setting values and available setting items depend on the connected camera.

C001:AW-UE70		TALLY:
SHUTTER		1/1
MODE	SPEED	
OFF	_	

Item	Setting details
MODE	Select for camera shutter mode.
SPEED	Select the shutter speed for the camera.

#### CHROMA

C001:AW-UE70		TALLY:	
CHROMA			1/1
LEVEL			
+ 2			

Item	Setting details
LEVEL	Set here the color intensity (chroma level) of the images.

#### GAIN

• The setting values and available setting items depend on the connected camera.

C001:AW-UE70		TALLY:
GAIN		1/1
GAIN	AGC MAX	
AUTO	24dB	

Item	Setting details
GAIN	The image gain is adjusted here. In locations which are too dark, adjust the gain upward; conversely, in locations which are too bright, adjust it downward.
AGC MAX	When [AUTO] is selected as the [GAIN] setting, the maximum gain-up amount can be set.

#### WHITE BALANCE

C001:AW-U	E70		TALLY:
WHITE BALANCE			1/1
MODE	COLOR TMP	R GAIN	B GAIN
ATW	—	_	—

Item	Setting details
MODE	Set the white balance mode. Select the mode when the coloring is not natural because of the nature of the light source or other factors. If the white color serving as the reference can be recognized, subjects can be shot with natural coloring.
COLOR TMP	Specify a color temperature.
R GAIN	Adjust the gain of the R channel.
B GAIN	Adjust the gain of the B channel.

#### GAMMA

• The setting values and available setting items depend on the connected camera.

C001:AW-UE70		TALLY:	
GAMMA			1/1
ТҮРЕ	LEVEL		
NORMAL	MID		

Item	Setting details
TYPE	Select the type of gamma curve.
LEVEL	Adjust the gamma correction level. Specifying smaller values results in a gentler gamma curve for the slope of low-brightness areas and sharper contrast. Specifying larger values results in an expanded gradient for dark areas and produces brighter images. The gamma curve for lowbrightness areas will be steeper, and contrast will be softer.

#### DRS

C001:AW-UE70		TALLY:	
DRS			1/1
DRS			
OFF			

Item	Setting details
DRS	Set the DRS function which performs correction when video with high light/dark contrast is displayed.

#### DTL

• The setting values and available setting items depend on the connected camera.

C001:AW-UE70			TALLY:
DTL			1/1
DTL	H LEVEL	L LEVEL	FLESH TONE
LOW	18	9	OFF

Item	Setting details
DTL	Adjust the contour correction level (master).
H LEVEL	Adjusts the contour correction level when [DTL] is set to [HIGH].
L LEVEL	Adjusts the contour correction level when [DTL] is set to [LOW].
FLESH TONE	Sets flesh tone mode to make the skin of subjects appear smoother and more attractive.

### COLOR CORRECT

C001:AW-UE70		TALLY:	
COLOR CORRECT			1/3
ТҮРЕ			
NTSC			
CORRECT	SAT	PHASE	
В	0	0	
SAT	PHASE	SAT	PHASE
В	В	B_B_Mg	B_B_Mg
0	0	0	0

C001:AW-UE70			TALLY:
COLOR CO	RRECT		2/3
SAT	PHASE	SAT	PHASE
B_Mg_Mg	B_Mg_Mg	Mg	Mg
0	0	0	0
SAT	PHASE	SAT	PHASE
Mg_R	Mg_R	R	R
0	0	0	0
SAT	PHASE	SAT	PHASE
R_R_YI	R_R_YI	R_YI_YI	R_YI_YI
0	0	0	0

C001:AW-UE70		TALLY:	
COLOR CORRECT			3/3
SAT	PHASE	SAT	PHASE
YI	YI	YI_YI_G	YI_YI_G
0	0	0	0
SAT	PHASE	SAT	PHASE
YI_G_G	YI_G_G	G	G
0	0	0	0
SAT	PHASE	SAT	PHASE
G_Cy	G_Cy	Cy_B_B	Cy_B_B
0	0	0	0

Item	Setting details
TYPE	Select the type of color matrix.
CORRECT	Adjust the saturation and hue.
SAT	Adjust the saturation for each color.
PHASE	Adjust the hue for each color.
SAT B	Adjust the saturation of blue.
PHASE B	Adjust the hue of blue.
SAT B_B_Mg	Adjusts the color saturation with a 3:1 blue to magenta ratio.
PHASE B_B_Mg	Adjusts the hue with a 3:1 blue to magenta ratio.
SAT B_Mg_Mg	Adjusts the color saturation with a 1:3 blue to magenta ratio.
PHASE B_Mg_Mg	Adjusts the hue with a 1:3 blue to magenta ratio.
SAT Mg	Adjust the saturation of magenta.
PHASE Mg	Adjust the hue of magenta.
SAT Mg_R	Adjust the saturation of the color between magenta and red.
PHASE Mg_R	Adjust the hue of the color between magenta and red.
SAT R	Adjust the saturation of red.
PHASE R	Adjust the hue of red.
SAT R_R_YI	Adjust the saturation of the color with a ratio of 3:1 red and yellow.
PHASE R_R_YI	Adjust the hue of the color with a ratio of 3:1 red and yellow.
SAT R_YI_YI	Adjust the saturation of the color with a ratio of 1:3 red and yellow.
PHASE R_YI_YI	Adjust the hue of the color with a ratio of 1:3 red and yellow.
SAT YI	Adjust the saturation of yellow.
PHASE YI	Adjust the hue of yellow.
SAT YI_YI_G	Adjust the saturation of the color with a ratio of 3:1 yellow and green.
PHASE YI_YI_G	Adjust the hue of the color with a ratio of 3:1 yellow and green.

Item	Setting details
SAT YI_G_G	Adjusts the color saturation with a 1:3 yellow to green ratio.
PHASE YI_G_G	Adjusts the hue with a 1:3 yellow to green ratio.
SAT G	Adjust the saturation of green.
PHASE G	Adjust the hue of green.
SAT G_Cy	Adjust the saturation of the color between green and cyan.
PHASE G_Cy	Adjust the hue of the color between green and cyan.
SAT Cy_B_B	Adjusts the color saturation with a 1:3 cyan to blue ratio.
PHASE Cy_B_B	Adjusts the hue with a 1:3 cyan to blue ratio.

### DNR

C001:AW-UE70		TALLY:	
DNR			1/1
DNR			
LOW			

Item	Setting details	
DNR	Set the digital noise reduction level for outputting bright, clear images without noise, even at night and low-light conditions.	

#### PEDESTAL

• The setting values and available setting items depend on the connected camera.

C001:AW-UE70		TALLY:
PEDESTAL		1/1
M.PED		
0		

Item	Setting details
M.PED	Use this to adjust the master pedestal.

#### ■CONTRAST

C001:AW-U	E70		TALLY:
CONTRAST			1/1
MODE	LEVEL		
AUTO	+ 3		
FRAME	A.FRAME	DAY/	NIGHT.D
MIX	MIX MAX	NIGHT	LEVEL
AUTO OdB		DAY	MID

Item	Setting details		
MODE	Selects AUTO/MANUAL for image brightness (contrast) control.		
LEVEL	ts the convergence level for adjusting image brightness. This is enabled when [MODE] is [AUTO].		
FRAME MIX	Selects for frame addition (gain-up using sensor storage) amount.		
A.FRAME MIX MAX	Sets the maximum amount of frame addition for when [AUTO] is selected in [MODE] or [AUTO] is selected in [FRAME MIX].		
DAY/NIGHT	Switches between standard shooting (day mode) and night-vision shooting (night mode: shooting with infrared light).		
NIGHT.D LEVEL	Adjusts the level for switching from NIGHT mode to DAY mode when [DAY/NIGHT] is [AUTO].		

### FUNCTION

⇒"USER ASSIGN" (page 46)
⇒"CAMERA INFO" (page 48)
⇒ "PTZ INFO1" (page 49)
⇒ "PTZ INFO2" (page 50)
⇒ "HOUSING" (page 51)
⇒"CROP" (page 52)

### USER ASSIGN

C001:AW-UE70			TALLY:		
USER ASS	USER ASSIGN				
USER1	USER2	USER3	USER4		
I.S.	ND1	ND2	ND3		
USER5	USER6	USER7	USER8		
ND4	D.EXT	D.ZOOM	FREEZE.D		

Item	Initial setting	Setting details			
USER1	I.S.	It is possible to allocate the following functions to the user buttons.			
USER2	ND1	POWER OFF:	D. HAZE:		
USER3	ND2	Power off function	D.HAZE CLR SW On/Off function (This feature is		
USER4	ND3	ND1, ND2, ND3, ND4:	available when connected to a camera for business		
USER5	ND4	ND1 to ND4 functions	applications that is equipped with the D.HAZE function.)		
USER6	D.EXT	FREEZE.D:	DEFROSTER: Defroster On/Off function (This feature is available		
USER7	D.ZOOM	Freeze during function D.ZOOM:	when connected to a camera for business applications		
		]	that is equipped with the DEFROSTER function.)		
USER8	FREEZE.D	Digital zoom function <b>D.EXT:</b> D.EXT (OFF/×1.4) function <b>D-EXT×2.0:</b> D.EXT (OFF/×2.0) function (This feature is available when connected to a camera for business applications that is equipped with the double digital extender function.) <b>CROP SW:</b> Crop SW On/Off function (This feature is available when connected to a camera for business applications that is equipped with the CROP function.) <b>C.OT YL, C.OT G, C.OT MG:</b> YL, G, MG selection in Crop Out (This feature is available when connected to a camera for business applications that is equipped with the CROP function.) <b>C.AJ YL, C.AJ G, C.AJ MG:</b> YL, G, MG selection in Crop Adjust (This feature is available when connected to a camera for business applications that is equipped with the CROP function.) <b>C.MK YL, C.MK G, C.MK MG:</b> YL, G, MG selection in Crop Marker (This feature is available when connected to a camera for business applications that is equipped with the CROP function.) <b>C.MK YL, C.MK G, C.MK MG:</b> YL, G, MG selection in Crop Marker (This feature is available when connected to a camera for business applications that is equipped with the CROP function.) <b>WIPER:</b> Wiper selection (This feature is available when connected to a camera for business applications that is equipped with the WIPER function.)	that is equipped with the DEFROSTER function.) HEATER: Heater On/Off function (This feature is available when connected to a camera for business applications that is equipped with the HEATER function.) FAN: Fan On/Off function WASHER: Washer On/Off function (This feature is available when connected to a camera for business applications that is equipped with the WASHER function.) CAM LOCK: CAM LOCK setting/cancel function (This feature is available when connected to a camera for business applications that is equipped with the CAM LOCK function.) TRACKING: Tracking On/Off function TR CONNECT On/Off function SCENE1, SCENE2, SCENE3, SCENE4: SCENE1 to SCENE4 allocation SHOOTING: Shooting mode (NORMAL/H.SENSE) function (This feature is available when connected to a camera for business applications that is equipped with the SHOOTING function.) I.S.: Camera I.S. function ON/OFF I.S.Ext: Use this to enable the second setting level when there is a setting value for a second level on a camera for business applications, rather than an ON/OFF setting for the function. Refer to the operating instructions for the models that support this.		

#### CAMERA INFO

C001:AW-U	E70		TALLY:
CAMERA I	NFO		1/2
ND	ОРТ		
ND1	OFF		
D.ZOOM	D.ZOOM MAX	D.EXT	
ON	x12	OFF	
I.S.	BARS TYP		
OFF	TYPE2		

C001:AW-U	TALLY:		
CAMERA INFO			2/2
OSD STAT	AUDIO	GENLOCK	
OFF	OFF	—	
HDR	BK LIGHT		
OFF			

Item	Setting details		
ND	Set the ND filter.		
OPT	Switch between standard shooting mode and night mode.		
D.ZOOM	Enable (ON) or disable (OFF) the digital zoom function.		
D.ZOOM MAX	Set the maximum digital zoom magnification.		
D.EXT	Select the digital extender function.		
I.S.	Select the image stabilization mode.		
BARS TYP	Changes the type of color bar to display.		
OSD STAT	Sets ON/OFF for status display during AWB execution.		
AUDIO	Sets the audio input signal from the device connected to the audio input connector to ON/OFF.		
GENLOCK	Adjusts the horizontal phase during genlock.		
HDR	Adjusts the effect of the high dynamic range mode.		
BK LIGHT	Sets the backlight correction function to ON/OFF.		

### ■PTZ INFO1

C001:AW-U	E70		TALLY:
PTZ INFO1			1/1
SPEED WTH Z	ZOOM MIN SPD	FREEZE	
OFF	OFF	OFF	
LIMIT	LIMIT	LIMIT	LIMIT
UP	DOWN	LEFT	RIGHT
OFF	OFF	OFF	OFF
P/T	FOCUS/		
CURVE	IRIS		
1	STNDRD		

Item	Setting details		
SPEED WTH Z	Enable (ON) or disable (OFF) the function used to adjust the pan-tilt adjustment speed in conjunction with the zoom magnification. When [ON] is set, the panning and tilting operations will become slower in the zoom status.		
ZOOM MIN SPD	Calibrate the amount of zoom control sent from the unit so that lens zooming starts smoothly when the ZOOM button is pressed in slowly. Watch the images on the monitor to see if lens zooming starts smoothly when the ZOOM button is pressed in slowly. Calibration starts at [1], the least amount, to [8], the most. There is no calibration when [OFF] is selected.		
FREEZE	Enable (ON) or disable (OFF) the function for freezing images during preset playback. When this is set to [ON], preset playback is performed with a still of the image immediately preceding the start of preset playback being output. The image freeze is released when preset playback is finished.		
LIMIT UP	You can set the limiter of the remote camera in the direction of the upper limit from this unit.		
LIMIT DOWN	You can set the limiter of the remote camera in the direction of the lower limit from this unit.		
LIMIT LEFT	You can set the limiter of the remote camera in the direction of the left limit from this unit.		
LIMIT RIGHT	You can set the limiter of the remote camera in the direction of the right limit from this unit.		
P/T CURVE	You can adjust the relationship between the angle and operation speed when the PAN/TILT lever is tilted. P/T CURV=1 P/T CURV=5 Angle of lever		
FOCUS/IRIS	You can switch the operations of the FOCUS dial and the IRIS dial. <b>EXCHANGE:</b> Switches the operations of the FOCUS dial and the IRIS dial. The operations of the auto focus button and the auto iris button are also switched when [EXCHANGE] is selected. • The one-touch auto focus button is disabled. • Operation of the FOCUS SPEED dial is disabled. • Speed is fixed to the setting it was at the time the setting is changed to [EXCHANGE]. <b>STANDARD:</b> Reverts the operations of the FOCUS dial and the IRIS dial.		

### ■PTZ INFO2

C001:AW-U	E70		TALLY:
PTZ INFO2			1/1
CAM SEL			
CAM1			
PAN	TILT	ZOOM	FOCUS
DIR	DIR	DIR	DIR
NORMAL	NORMAL	NORMAL	NORMAL
IRIS			
DIR			
NORMAL			

Item	Setting details		
CAM SEL	Settings can be made for rows from the second and so on for the selected camera number.		
PAN DIR	Set the operating direction for the remote camera with the pan operation. NORMAL: When the PAN/TILT lever is tilted to the left, the remote camera moves to the left, and when tilted to the right it moves to the right. REVERSE: Reverses the direction of operation of NORMAL.		
TILT DIR	Set the operating direction for the remote camera with the tilt operation. NORMAL: When the PAN/TILT lever is tilted away, the remote camera moves up, and when tilted towards the user it moves down. REVERSE: Reverses the direction of operation of NORMAL.		
ZOOM DIR	Set the operating direction for the remote camera with the zoom operation. NORMAL: When the TELE side of the ZOOM button is pressed, the lens moves towards the telephoto end, and when WIDE is pressed it moves towards the wide-angle end. REVERSE: Reverses the direction of operation of NORMAL.		
FOCUS DIR	Set the operating direction for the remote camera with the focus operation. NORMAL: When the FOCUS dial is turned to the right, the focus moves to the far end, and when turned to the left, it moves to the near end. REVERSE: Reverses the direction of operation of NORMAL.		
IRIS DIR	Set the operating direction for the remote camera with the iris operation. NORMAL: When the IRIS dial is turned to the right it moves in the open direction, and when it is turned to the left it moves in the close direction. REVERSE: Reverses the direction of operation of NORMAL.		

### HOUSING

(For future expansion feature. This function is available when connecting a camera which is equipped with the HOUSING function.)

C001:AW-U	E70		TALLY:
HOUSING			1/1
FAN	HEATER	DEFROSTER	WIPER
	_	—	—
WASHER			
<u> </u>			

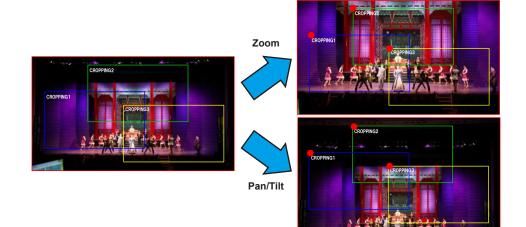
Item	Setting details	
FAN	Set the cooling fan operation.	
HEATER	Set the heater operation. (This feature is available when connected to a camera for business applications that is equipped with the HEATER function.)	
DEFROSTER	Set the defroster device operation. (This feature is available when connected to a camera for business applications that is equipped with the DEFROSTER function.)	
WIPER	Set the wiper operation. (This feature is available when connected to a camera for business applications that is equipped with the WIPER function.)	
WASHER Clean the lens by spraying washer fluid on to it. (This feature is available when connected to a camera for business applications that is equipped with the WASHER function.) If you select [ON], the camera head moves to the position of the washer nozzle, washer fluid is sprayed for a specifi duration, and the camera head returns to the original position. The wiper also operates momentarily during cleaning.		

#### CROP

- (For future expansion feature. This function is available when connecting a camera which is equipped with the CROP function.)
- The setting values and available setting items depend on the connected camera.

C001:AW-U	E70		TALLY:
CROP			1/1
SW	ADJUST	H POS	V POS
	—	_	—
OUT	MARKER		
<u> </u>	—		

Item	Setting details	
SW	Enable (ON) or disable (OFF) the CROP function which crops UHD (3840×2160) images to FHD (1920×1080) images.	
ADJUST	Make selections for the crop frame to adjust positioning.	
H POS	Make settings for the position in the horizontal direction for the crop frame specified in [ADJUST]. 0 is the left edge and 1920 is the right edge.	
V POS	Make settings for the position in the vertical direction for the crop frame specified in [ADJUST]. 0 is the upper edge and 1080 is the lower edge.	
OUT	Make the settings for the crop frame for images output to the 3G SDI OUT terminal and IP.	
MARKER	KER Make the settings for the crop frame displayed for images output to the MONI OUT terminal.	



### MAINTENANCE

#### ■RP SETTING

C001:AW-U	E70	TALLY:
<b>RP SETTIN</b>	G	1/2
LCD BRIGHT	LED BRIGHT	BUZZER
10	3	ON
GPIO MODE	MENU BT MODE	
MODE1	PMEM OFF	
PC_TOOL		
LINK		
DISABLE		

C001:AW-UE70	TALLY:
RP SETTING	2/2
NEW ID	OLD ID
NEW PASSWORD	OLD PASSWORD
Retype PASSWORD	SAVE
	No?

Item	Setting value	Setting details
LCD BRIGHT	1	Sets the brightness of the LCD panel.
	: <u>10</u>	
LED BRIGHT	1	Set the brightness of the panel buttons.
	<u>3</u>	
	10	
BUZZER	OFF <u>ON</u>	Enable (ON) or disable (OFF) the buzzer (beep).
GPIO MODE	MODE1 MODE2	You can select control of the port of the TALLY/GPIO connector. For details, refer to "Control interface for external devices" (page 86).

Item	Setting value	Setting details	
MENU BT MODE	PMEM OFF PMEM ON	You can enable or disable the PMEM button when the MENU button on the LCD panel is set to ON. PMEM OFF: This disables the PMEM function when MENU is set to ON and is used for the button to select the menu in the first layer. PMEM ON: This enables the PMEM function when MENU is set to ON and cannot be used for the button to select menu in the first layer.	
PC_TOOL LINK	DISABLE ENABLE	<ul> <li>Select [ENABLE] when using Setup Software.</li> <li>If you change the item using the F5 dial, this setting will return to [DISABLE]. Do not turn the F5 dial after [ENABLE] is set.</li> </ul>	
NEW ID		Use this to create a new ID. The ID can be 8-16 alphanumeric characters long. If the ID is not registered, the item name is displayed in red. Turn the F1 dial to select a single character. Press the F1 dial to set each character and enter the following values. Use the F2 dial to delete a single character. This unit is initialized when [INIT ALL] is executed in the RP INITIALIZE menu and will return to an unregistered state.	
OLD ID		Displays the ID before the change. Turn the F3 dial to select a single character. Press the F3 dial to set each character and enter the following values. Use the F4 dial to delete a single character.	
NEW PASSWORD		Use this to set a new password. The password can be 8-16 alphanumeric characters long. You can use the following characters and symbols. (Use a combination of the three types, alphabetical characters, numerical characters, and symbols, to set the password. You cannot set the same ID character string.) • A to Z, a to z, 0 to 9 • ~!@#\$%^&*()_+\ {]]<>/?' If the password is not registered, the item name is displayed in red. Turn the F1 dial to select a single character. Press the F1 dial to set each character and enter the following values. Use the F2 dial to delete a single character. This unit is initialized when [INIT ALL] is executed in the RP INITIALIZE menu and will return to an unregistered state.	
OLD PASSWORD		Displays the password before the change. Turn the F3 dial to select a single character. Press the F3 dial to set each character and enter the following values. Use the F4 dial to delete a single character.	
Retype PASSWORD		Enter the password again. Turn the F1 dial to select a single character. Press the F1 dial to set each character and enter the following values. Use the F2 dial to delete a single character.	
SAVE	No? Yes	<ul> <li>Turn the F4 dial to select [Yes] and press the F4 dial. When pressing the F4 dial, the ID and passwo you have entered will be saved.</li> <li>Settings are not updated until [SAVE] is executed after the settings are changed.</li> </ul>	

## RP INITIALIZE

C001:AW-U	IE70	TALLY:
<b>RP INITIA</b>	LIZE	1/1
INIT ALL	INIT	
NO?	NO?	

Item	Setting value	Setting details
INIT ALL	NO? YES?	Return all settings managed by this unit, including network settings, to the factory default conditions.
INIT	NO? YES?	<ul><li>Return all settings managed by this unit, excluding network settings, to the factory default conditions.</li><li>The account information for this unit is not initialized.</li></ul>

```
Menu (continued)
```

### RP VERSION

C001:AW-UE70	TALLY:
RP VERSION	1/1
SYSTEM VERSION	
1.00-00-0.00	
SOFT VERSION	FPGA VERSION
1.00-00-0.00	1.00-00-0.00

Item	Setting value	Setting details
SYSTEM VERSION	-	Displays the system version for the unit.
SOFT VERSION	-	Displays the software version.
FPGA VERSION	-	Displays the FPGA version.

### GPI TALLY

C001:AW-U	E70		TALLY:
GPI TALLY			1/1
TALLY			
OUT			
OFF			
TALLY1	TALLY2	TALLY3	TALLY4
CAM1	CAM2	CAM3	CAM4
TALLY5			
CAM5			

\_\_\_\_ indicates factory default settings.

Item	Setting value	Setting details
TALLY OUT	OFF <u>ON</u>	Set whether to send a TALLY notification to the camera if TALLY is input through the port of the TALLY/GPIO connector. When connecting multiple remote camera controllers to control cameras, set this to [OFF] when the TALLY ON/OFF operation is not to be performed. When the TALLY ON/OFF operation is to be performed, make sure there is no duplication of camera allocations. ON: Notify OFF: Do not notify
TALLY1	CAM1 : : : : : :	Select the camera to send the TALLY notification to when there is an R_TALLY_1 or G_TALLY_1 input through the port of the TALLY/GPIO connector.
TALLY2	CAM1 CAM2 :: CAM200	Select the camera to send the TALLY notification to when there is an R_TALLY_2 or G_TALLY_2 input through the port of the TALLY/GPIO connector.
TALLY3	CAM1 :: <u>CAM3</u> :: CAM200	Select the camera to send the TALLY notification to when there is an R_TALLY_3 or G_TALLY_3 input through the port of the TALLY/GPIO connector.
TALLY4	CAM1 :: : : : : : : : : : : : :	Select the camera to send the TALLY notification to when there is an R_TALLY_4 or G_TALLY_4 input through the port of the TALLY/GPIO connector.
TALLY5	CAM1    CAM5    CAM200	Select the camera to send the TALLY notification to when there is an R_TALLY_5 or G_TALLY_5 input through the port of the TALLY/GPIO connector.

#### - Note -

• The TALLY notification is sent if there are applicable cameras in the currently selected camera group. Cameras are not notified even if there is TALLY input for CAMERA groups that are not currently selected.

#### ■ GPIO CAM SEL

C001:AW-U	IE70		TALLY:
<b>GPIO CAM</b>	SEL		1/2
IN1	IN2	IN3	IN4
CAM1	CAM2	CAM3	CAM4
IN5			
CAM5			
OUT1	OUT2	OUT3	OUT4
CAM1	CAM2	САМЗ	CAM4

C001:AW-U	E70	TALLY:
GPIO CAM	SEL	2/2
OUT5		
CAM5		

Item	Setting value	Setting details
IN1	<u>CAM1</u>  CAM200	Select the camera to be switched when there is CAMERA_SELECT_IN1 input through the port of the TALLY/GPIO connector.
IN2	CAM1 <u>CAM2</u>  CAM200	Select the camera to be switched when there is CAMERA_SELECT_IN2 input through the port of the TALLY/GPIO connector.
IN3	CAM1 : <u>CAM3</u> : CAM200	Select the camera to be switched when there is CAMERA_SELECT_IN3 input through the port of the TALLY/GPIO connector.
IN4	CAM1  <u>CAM4</u>  CAM200	Select the camera to be switched when there is CAMERA_SELECT_IN4 input through the port of the TALLY/GPIO connector.
IN5	CAM1  <u>CAM5</u>  CAM200	Select the camera to be switched when there is CAMERA_SELECT_IN5 input through the port of the TALLY/GPIO connector.
OUT1	CAM1 :: CAM200	Notification is sent to CAMERA_SELECT_OUT1 of the port of the TALLY/GPIO connector when the set camera is selected.

#### Menu (continued)

Item	Setting value	Setting details
OUT2	CAM1 CAM2 : CAM200	Notification is sent to CAMERA_SELECT_OUT2 of the port of the TALLY/GPIO connector when the set camera is selected.
OUT3	CAM1  <u>CAM3</u>  CAM200	Notification is sent to CAMERA_SELECT_OUT3 of the port of the TALLY/GPIO connector when the set camera is selected.
OUT4	CAM1  <u>CAM4</u>  CAM200	Notification is sent to CAMERA_SELECT_OUT4 of the port of the TALLY/GPIO connector when the set camera is selected.
OUT5	CAM1 :: <u>CAM5</u> :: CAM200	Notification is sent to CAMERA_SELECT_OUT5 of the port of the TALLY/GPIO connector when the set camera is selected.

#### Notes

• With regard to the operations of CAMERA\_SELECT\_IN of the port of the TALLY/GPIO connector, if a CAMERA number outside of the currently Operations in regard to the CAMERA\_SELECT\_OUT of the port of the TALLY/GPIO connector will be operations on the applicable camera

number in the currently selected camera group.

#### ■GPO CAM.G

C001:AW-U	E70		TALLY:
GPO CAM.O			1/1
OUT1	OUT2	OUT3	OUT4
GROUP1	GROUP2	GROUP3	GROUP4
OUT5	OUT6	OUT7	OUT8
GROUP5	GROUP6	GROUP7	GROUP8

Item	Setting value	Setting details
OUT1	GROUP1 : GROUP40	Displays the camera group set for the CAM_GRP_SEL OUT1 terminal of the port for the TALLY/GPIO connector.
OUT2	GROUP1 GROUP2 : GROUP40	Displays the camera group set for the CAM_GRP_SEL OUT2 terminal of the port for the TALLY/GPIO connector.
OUT3	GROUP1 i <u>GROUP3</u> i GROUP40	Displays the camera group set for the CAM_GRP_SEL OUT3 terminal of the port for the TALLY/GPIO connector.
OUT4	GROUP1  <u>GROUP4</u>  GROUP40	Displays the camera group set for the CAM_GRP_SEL OUT4 terminal of the port for the TALLY/GPIO connector.
OUT5	GROUP1 i <u>GROUP5</u> i GROUP40	Displays the camera group set for the CAM_GRP_SEL OUT5 terminal of the port for the TALLY/GPIO connector.
OUT6	GROUP1 i <u>GROUP6</u> i GROUP40	Displays the camera group set for the CAM_GRP_SEL OUT6 terminal of the port for the TALLY/GPIO connector.
ОИТ7	GROUP1 i <u>GROUP7</u> i GROUP40	Displays the camera group set for the CAM_GRP_SEL OUT7 terminal of the port for the TALLY/GPIO connector.
OUT8	GROUP1 i <u>GROUP8</u> i GROUP40	Displays the camera group set for the CAM_GRP_SEL OUT8 terminal of the port for the TALLY/GPIO connector.

### GPI PMEM

C001 AW-UE70			TALLY:
<b>GPI PMEM</b>		1/1	
IN1	IN2	IN3	IN4
PMEM1	PMEM2	РМЕМ3	PMEM4
IN5	IN6	IN7	IN8
PMEM5	PMEM6	PMEM7	PMEM8
IN9	IN10		
PMEM9	PMEM10		

Item	Setting value	Setting details	
IN1	PMEM1	With the TALLY/GPIO connector, playback of the set preset number is performed when there is input through PRESET_SELECT_IN1.	
IN2	PMEM100 PMEM1 <u>PMEM2</u> ii	With the TALLY/GPIO connector, playback of the set preset number is performed when there is input through PRESET_SELECT_IN2.	
	PMEM100		
IN3	PMEM1 : <u>PMEM3</u> : PMEM100	With the TALLY/GPIO connector, playback of the set preset number is performed when there is input through PRESET_SELECT_IN3.	
IN4	PMEM1  <u>PMEM4</u>  PMEM100	With the TALLY/GPIO connector, playback of the set preset number is performed when there is input through PRESET_SELECT_IN4.	
IN5	PMEM1  <u>PMEM5</u>  PMEM100	With the TALLY/GPIO connector, playback of the set preset number is performed when there is inp through PRESET_SELECT_IN5.	
IN6	PMEM1  <u>PMEM6</u>  PMEM100	With the TALLY/GPIO connector, playback of the set preset number is performed when there is input through PRESET_SELECT_IN6.	
IN7	PMEM1 .: <u>PMEM7</u> .: PMEM100	With the TALLY/GPIO connector, playback of the set preset number is performed when there is input through PRESET_SELECT_IN7.	
IN8	PMEM1 : <u>PMEM8</u> : PMEM100	With the TALLY/GPIO connector, playback of the set preset number is performed when there is input through PRESET_SELECT_IN8.	
IN9	PMEM1 : <u>PMEM9</u> : PMEM100	With the TALLY/GPIO connector, playback of the set preset number is performed when there is in through PRESET_SELECT_IN9.	
IN10	PMEM1 : <u>PMEM10</u> :	With the TALLY/GPIO connector, playback of the set preset number is performed when there is input through PRESET_SELECT_IN10.	
	PMEM100		

### GPI PMEM.G

C001:AW-U	E70	TALLY:	
GPI PMEM.G			1/2
GPI IN	PMEM		
SEL	MODE		
IN1	SEPARATE		
SEL1	SEL1	SEL2	SEL2
CAM	PM	CAM	PM
CAM1	PMEM1	CAM2	PMEM1
SEL3	SEL3	SEL4	SEL4
CAM	PM	CAM	PM
CAM3	PMEM1	CAM4	PMEM1

C001:AW-UE70			TALLY:
GPI PMEM.	G	2/2	
SEL5	SEL5	SEL6	SEL6
CAM	PM	CAM	PM
CAM5	PMEM1	CAM6	PMEM1
SEL7	SEL7	SEL8	SEL8
CAM	PM	CAM	PM
CAM7	PMEM1	CAM8	PMEM1
SEL9	SEL9	SEL10	SEL10
CAM	PM	CAM	PM
CAM9	PMEM1	CAM10	PMEM1

\_ indicates factory default settings.

\_

Item	Setting value	Setting details	
GPI IN SEL	<u>IN1</u> : IN4	For each of the PRESET_MEM_GROUP_IN1 to 4 inputs on the TALLY/GPIO connector, it is possible to specify preset playback of a maximum of 10 cameras.	
PMEM MODE	<u>OFF</u> SEPARATE ALL	Set the operation mode for each of the PRESET_MEM_GROUP_IN1 to 4 on the TALLY/GPIO connector. OFF: Preset playback is not performed even if there is input to PRESET_MEM_GROUP_IN1 to 4. SEPARATE: If there is input to PRESET_MEM_GROUP_IN1 to 4, preset playback instructions are performe according to the subsequent settings SEL1 to SEL10. ALL: Specify playback of the preset number set in SEL1 PM for all connected cameras when there is input through PRESET_MEM_GROUP_IN1.	
SEL1 CAM	CAM1 : : : : :	Select the camera number to playback.	
SEL1 PM	PMEM1 : PMEM100	Allocate the preset playback number to the camera selected with SEL1 CAM. However, when the [PMEM MODE] is [ALL], the preset number for specifying playback of all connected cameras is set.	
SEL2 CAM	CAM1 <u>CAM2</u> i CAM200	Select the camera number to playback.	
SEL2 PM	PMEM1 : PMEM100	Allocate the preset playback number to the camera selected with SEL2 CAM.	

Item	Setting value	Setting details
SEL3 CAM	CAM1	Select the camera number to playback.
	E CAM3	
SEL3 PM	CAM200 PMEM1	Allocate the preset playback number to the camera selected with SEL3 CAM.
02201		
SEL4 CAM	PMEM100 CAM1	Select the camera number to playback.
	1	
	CAM4	
	CAM200	
SEL4 PM	PMEM1	Allocate the preset playback number to the camera selected with SEL4 CAM.
	PMEM100	
SEL5 CAM	CAM1	Select the camera number to playback.
	CAM5	
	: CAM200	
SEL5 PM	PMEM1	Allocate the preset playback number to the camera selected with SEL5 CAM.
	: PMEM100	
SEL6 CAM	CAM1	Select the camera number to playback.
	E	
	<u>CAM6</u> 	
	CAM200	
SEL6 PM	PMEM1	Allocate the preset playback number to the camera selected with SEL6 CAM.
	PMEM100	
SEL7 CAM	CAM1	Select the camera number to playback.
	CAM7	
	E CAM200	
SEL7 PM	PMEM1	Allocate the preset playback number to the camera selected with SEL7 CAM.
	E PMEM100	
SEL8 CAM	CAM1	Select the camera number to playback.
	E CAM8	
SEL8 PM	CAM200 PMEM1	Allocate the preset playback number to the camera selected with SEL8 CAM.
SEL9 CAM	PMEM100 CAM1	Select the camera number to playback.
	1	
	CAM9	
	CAM200	
SEL9 PM	PMEM1	Allocate the preset playback number to the camera selected with SEL9 CAM.
	PMEM100	
SEL10 CAM	CAM1	Select the camera number to playback.
	: <u>CAM10</u>	
	: CAM200	
SEL10 PM	PMEM1	Allocate the preset playback number to the camera selected with SEL10 CAM.
	1	
	PMEM100	

#### **PMEM**

### Operating preset memory (PMEM)

The preset memory of a remote camera can be operated from the unit. The following settings that you have adjusted in advance can be stored in preset memory.

- Pan/tilt positions
- Lens iris settings (manual iris only)
  White balance settings
- Zoom positionsFocus positions
  - ions Gain
  - Notes —
- The preset memory is registered in the connection destination remote camera.
- The number of preset memory that can be registered differs depending on the remote camera. For details, check the Operating Instructions for the corresponding model.

⇒"PMEM LIST" (page 64)

⇒ "SETTING" (page 65)

#### PMEM LIST

• You can view the preset memory registration status for the selected remote camera and play back preset memories by selecting preset numbers.

C001:AW-UE70			TALLY:	
PMEM LIST			1/9	
1	2	3	4	
PMEM1	PMEM2	PMEM3	PMEM4	
5	6	7	8	
PMEM5	PMEM6	PMEM7	PMEM8	
9	10	11	12	
PMEM9	PMEM10	PMEM11	PMEM12	
2				

C001 AW-UE	70		TALLY:
PMEM LIST	9/9		
97	98	99	100
PMEM97	PMEM98	PMEM99	PMEM100

Item	Setting value	Setting details
1	PMEM1	The preset memory registration status for the selected remote camera is displayed.
1	1	The green display indicates that it is currently registered.
100	PMEM100	Preset memory numbers in yellow indicate currently selected preset memories.
(These are preset	<ul> <li>The displayed</li> </ul>	RECALL
numbers.)	names can be changed with the Setup Software.	In the selected row, when pressing any of the F1 to F4 dials located at the same position with the preset number column, you can recall preset. STORE STORE button:
		When the button is lit and press any of the F1 to F4 dials located at the same position with the preset number column, you can register the preset. <b>DELETE</b>
		DELETE button:
		When the button is lit and press any of the F1 to F4 dials located at the same position with the preset number column, you can delete the preset.

#### SETTING

Make basic settings for preset memory. The setting values and available setting items depend on the connected camera.

C001:AW-UE70			TALLY:
SETTING			1/2
SCOPE	RP CTRL SPD MODE		HOME
Α	CAMERA		NO?
SPEED UNIT	SPEED TBL	SPEED	
STEP	SLOW	1	
D-EXT	ZOOM MODE	CROP	
OFF	Α	OFF	

C001:AW-UE70		TALLY:
SETTING		2/2
PMEM GP CAL GROUP1		

Item	Setting value	Setting details
SCOPE	A B C	Specify the playback targets for items registered in the preset memory.  A: Pan, Tilt, Zoom (including digital zoom), Focus, Iris, Gain, white balance adjustment value  B: Pan, Tilt, Zoom (including digital zoom), Focus, Iris  C: Pan, Tilt, Zoom (including digital zoom), Focus
RP CTRL SPD MODE	CAMERA RP	Determine the playback mode of the preset speed for playing back the preset memory. <b>CAMERA:</b> Playing back at the preset speed set in the remote camera. <b>RP:</b> Playing back at the preset speed registered when the preset memory was registered.
HOME	YES NO?	Return the pan-tilt head to home position.
SPEED UNIT	STEP TIME	<ul> <li>The mode of the speed for playing back the preset memory is displayed.</li> <li>The setting is only enabled on remote cameras that have the SPEED UNIT function.</li> <li>This is only enabled with remote cameras where it is possible to specify times with PRESET SPEED.</li> <li>STEP: <ul> <li>Playback moves to the preset position at the specified speed.</li> </ul> </li> <li>TIME: <ul> <li>Playback moves to the preset position in the specified time.</li> </ul> </li> </ul>
SPEED TBL	SLOW FAST	Set the mode of the speed when playing back preset memory.

Item	Setting value	Setting details
SPEED	(Setting on the remote camera)	The movement speed or time up to the preset position is displayed. When the [SPEED UNIT] is [STEP], this displays the speed of movement to the preset position. When it is [TIME], this displays the time it will take to move to the preset position.
D-EXT	OFF ON	Set whether to set the digital extender On/Off when registering preset memories.
ZOOM MODE	A B	Select the zoom operation for when preset memory is recalled. A: Perform the zoom operation in line with the pan/tilt operation. B: Perform the zoom operation quicker than the pan/tilt operation.
CROP	OFF ON	<ul> <li>When the preset memory is played back, set whether the reproduction of content set in the various [CROP] menus is OFF/ON.</li> <li>The setting is only enabled on remote cameras that are equipped with the CROP function.</li> </ul>
PMEM GP CAL	GROUP1 .: GROUP4	Execute the setting content for [GPI IN SEL] set with the [MAINTENANCE] > [GPI PMEM.G] menu. Select the target group and press the F1 dial to execute. GROUP1: IN1 for GPI IN SEL GROUP2: IN2 for GPI IN SEL GROUP3: IN3 for GPI IN SEL GROUP4: IN4 for GPI IN SEL

### SYSTEM

⇒"CAMERA" (page 67)
⇒"CONNECT SETTING" (page 68)
$\Rightarrow$ "MANUAL IP SET/USER AUTH" (page 69)
⇒"AUTO IP SET" (page 70)
⇒ "RP IP SET" (page 71)
⇒ "TRACKING" (page 72)

### 

C001:AW-U	TALLY:		
CAMERA			
CAM	AUTO	CAM	
POWER	POWER	LOCK	
NON	ON	—	

\_\_\_ indicates factory default settings.

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Item	Setting value	Setting details
CAM POWER	NON GRP OFF GRP ON ALL OFF ALL ON	Execute power On/Off instructions in regard to connected remote cameras. NON: Power On/Off instructions not executed. GRP OFF: Execute power Off (standby) instructions in regard to remote cameras belonging to the currently selected camera group. GRP ON: Execute power On instructions in regard to remote cameras belonging to the currently selected camera group. ALL OFF: Execute power Off (standby) instructions in regard to remote cameras set in this unit. ALL ON: Execute power On instructions in regard to remote cameras set in this unit. • Depending on the number of remote cameras connected, the unit may take some time before it
AUTO POWER	OFF ON	<ul> <li>can be operated.</li> <li>The power of remote cameras set in the unit turns on when the power of this unit is turned on.</li> <li>Depending on the number of remote cameras connected, the unit may take some time before it can be operated.</li> </ul>
CAM LOCK	UNLOCK LOCK • "–" is displayed for cameras without the feature.	This feature is available when connected to a camera that is equipped with the CAM LOCK function. When [LOCK] is selected, this unit and currently selected remote cameras cannot be controlled from another AW-RP60. While LOCK is on, currently selected remote cameras can only be controlled from the AW-RP60 on which LOCK was executed. Note that if you switch to another remote camera while LOCK is on, the LOCK is maintained on the remote cameras prior to camera selection, but the remote cameras after camera selection do not have LOCK applied. A key mark is displayed next to the camera name at the TOP of the LCD panel while LOCK is on. When [UNLOCK] is selected, the LOCK is released and the key mark disappears. Green key mark: This means that LOCK has been executed on this unit. Red key mark: This means that another AW-RP60 has been used for LOCK. Operation is not possible in this case.

#### CONNECT SETTING

C001:AW-U	E70		TALLY:
CONNECT	SETTING		1/17
CAM SEL	CONNECT MODE		
CAM1	Serial		
CAM1	CAM2	CAM3	CAM4
Serial	NON	NON	NON
CAM5	CAM6	CAM7	CAM8
NON	NON	NON	NON
	(	2	

#### TALLY: C001:AW-UE70 **CONNECT SETTING** 17/17 **CAM189** CAM190 CAM191 CAM192 NON NON NON NON CAM193 CAM194 **CAM195** CAM196 NON NON NON NON CAM199 CAM200 CAM197 CAM198 NON NON NON NON

\_\_\_\_ indicates factory default settings.

Item	Setting value	Setting details
CAM SEL	CAM1  CAM200	Select the camera control number for which you want to configure settings. The network settings for the selected camera control number will appear in the screens that follow.
CONNECT MODE	Serial LAN	Select the connection mode for the camera.
CAM1	NON <u>Serial</u> LAN	Displays the connection mode for camera 1 to camera 200.
CAM2 i CAM5	NON Serial LAN	
CAM6 I CAM200	NON LAN	

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### ■MANUAL IP SET/USER AUTH

C001:AW-U	TALLY:		
MANUAL I	MANUAL IP SET/USER AUTH		
CAM SEL			
CAM1			
CAM IP			
192	168	0	10
PORT			SAVE
80			(push)

C001:AW-UE70	TALLY:
MANUAL IP SET/USER AUTH	2/2
USER NAME	
PASSWORD	
RETYPE PASSWORD	SAVE
	NO?

Item	Setting value	Setting details
CAM SEL	CAM1 : CAM200	Select the camera control number for which you want to configure settings. The setting ranges are as follows. Camera 1 to Camera 200 The network settings for the selected camera control number will appear in the screens that follow.
CAMIP		Sets the IP address of the camera. The setting ranges are as follows. (IP addresses are assigned in order starting with 192.168.0.10 for CAM1 under factory default conditions.)
PORT	1 :: <u>80</u> :: 65535	Sets the port number of the camera.
SAVE	(push)	<ul> <li>Press the F4 dial so the IP address and port number for the camera are set.</li> <li>Settings are not updated until [SAVE] is executed after the settings are changed.</li> </ul>
USER NAME		Enter the user name that is registered in the camera to be connected. Turn the F1 dial to select a single character. Press the F1 dial to set each character and enter the following values. Use the F2 dial to delete a single character. • Use [SAVE] to set the entry.
PASSWORD		<ul> <li>Enter the password that is registered in the camera to be connected.</li> <li>Turn the F1 dial to select a single character. Press the F1 dial to set each character and enter the following values. Use the F2 dial to delete a single character.</li> <li>Use [SAVE] to set the entry.</li> </ul>
RETYPE PASSWORD		Enter the password again.

### AUTO IP SET

C001:AW-UE70			TALLY:
AUTO IP S	á í		1/1
AUTO SET	NEW	TOTAL	EXEC
RENEW	0	0	NON

Item	Setting value	Setting details
AUTO SET	NON RENEW KEEP	<ul> <li>NON: No search is made for remote cameras.</li> <li>RENEW: The unit first searches within the same subnet. After this, each detected remote camera is allocated a camera number in order. At this time, each remote camera IP address is overwritten with the connection destination IP address value set for each camera number in the unit.</li> <li>KEEP: The unit first searches within the same subnet. After this, newly detected remote cameras are linked with camera numbers whose connection type is set as [NON] on this unit. At this time, the IP addresses set for the remote cameras are saved as they are and the connection destination IP addresses set in this unit are overwritten.</li> </ul>
NEW	0	The number of newly detected cameras is displayed.
TOTAL	0	The number of all devices currently being managed by the unit + Number of newly detected devices is displayed.
EXEC	NON RETRY SETTING	<ul> <li>NON: IP address setting operation is not performed.</li> <li>RETRY: Execute the [RENEW] or [KEEP] process again.</li> <li>SETTING: The results of [RENEW] or [KEEP] are reflected. With [RENEW], the IP on the camera is also changed at this time.</li> <li>Refer to "Setting the IP addresses automatically (auto IP setting)" (page 30) for details.</li> </ul>

### RP IP SET

C001:AW-UE70		TALLY:		
<b>RP IP SET</b>		1/3		
NETWORK			SAVE	
SETTING STATIC			(push)	
IP				
192	168	0	9	
SUBNET				
255	255	255	0	
C001:AW-U	E70		TALLY:	
<b>RP IP SET</b>			2/3	
GATEWAY				
192	168	0	1	
PORT	PORT	PORT	PORT	
C1 61000	C2 61002	C3 61004	C4 61006	
PORT				
C5 61008				
C001:AW-U	E70		TALLY:	
		3/3		
MAC ADDRESS				
**_**_**_**				

Item	Setting value	Setting details	
NETWORK SETTING	STATIC DHCP	Select whether to make the IP address setting for the unit by obtaining from the DHCP server [DHCP] or setting with manual [STATIC].	
SAVE	(push)	<ul> <li>Press the F4 dial so the IP address and port number for the camera are set.</li> <li>Settings are not updated until [SAVE] is executed after the settings are changed.</li> </ul>	
IP	192.168.0.9	Sets the IP address of the unit. • This is disabled when the setting for [NETWORK SETTING] is [DHCP].	
SUBNET	255.255.255.0	Sets the subnet mask of the unit.	

Item	Setting value	Setting details
GATEWAY	<u>192.168.0.1</u>	Sets the default gateway of the unit.
PORT C1	61000	It is possible to allocate reception port numbers for each camera selection button.
PORT C2	61002	
PORT C3	61004	
PORT C4	61006	
PORT C5	61008	
MAC ADDRESS	-	Display the unit's MAC address. (Display only)

#### ■TRACKING

C001:AW-U	E70		TALLY:
TRACKING			1/1
TRACKING CONT			SAVE
LAN			(push)
IP			
192	168	0	210
PORT			
1337			

Item	Setting value	Setting details
TRACKING CONT	NON LAN	Connection with automatic tracking software becomes possible by selecting [LAN].
SAVE	(push)	<ul> <li>Maintain the connection settings of the automatic tracking software.</li> <li>Settings are not updated until [SAVE] is executed after the settings are changed.</li> </ul>
IP	192.168.0.210	Set the IP address of the automatic tracking software.
PORT	1 : <u>1337</u> : 65535	Set the PORT number of the automatic tracking software.

# Setup Software

Setup Software is for the client computer to perform the client computer connection settings with this unit and remote cameras, upgrade of the unit firmware, and backing up the settings data. The settings can be configured while confirming each item in a list.

The settings for connecting the unit with the remote cameras can also be configured using just the unit. For how to configure the settings on the unit, refer to "Settings for connecting with the remote cameras" (page 29).

# Notes

When using Setup Software to configure the settings from a personal computer, observe the following.

- Do not perform any operation on the unit.
- Do not start Setup Software on any other computer in the same network.
- Do not use "Easy IP Setup Software".
- Ensure that no IP addresses are the same.

# Installing the software

This section describes how to install Setup Software.

You can obtain the software from the Service and Support page of the following website.

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

- 1. Download the Setup Software zip file from the Service and Support page of the website.
- 2. Double-click the downloaded zip file to decompress the file.
- 3. Double-click [RP60PCTool\_\*.exe] in the [Setup Software] folder to start the Setup Software.
  - The website has Setup Software for Windows<sup>®</sup> 7 and Windows<sup>®</sup> 10.
    - The location marked by the asterisk (\*) will be "7" for the Windows® 7 version and "10" for the Windows® 10 version.

# Configuring the settings of the personal computer

Configure the following settings of the personal computer before connecting it to the unit.

IP address	
Subnet mask	

- : Set an IP address that is not a duplicate of the IP address set on the unit or any IP address set on the devices (remote cameras, etc.) connected within the same subnet.
- Subnet mask Default gateway
- : Set the same subnet mask as that set on the unit.
- : Set the same default gateway as that set on the unit.

You can view the IP address, subnet mask and default gateway set in the unit with [SYSTEM] > [RP IP SET].

IP address : [IP] item Subnet mask : [SUBNET] item Default gateway : [GATEWAY] item The screens of Windows 10 are used in the explanations in this manual.

If you are using an operating system other than Windows 10, some of the items displayed on the screens may differ.

# Settings for connecting with the remote cameras

- When connecting with the remote camera, select [MAINTENANCE] > [RP SETTING] of the unit and register the ID and password in advance. (page 53)
- When using Setup Software, select [MAINTENANCE] > [RP SETTING] > [PC\_TOOL LINK] of the unit and set [ENABLE]. (page 53)
- If you forget the ID or password, execute initialization on this unit with [MAINTENANCE] > [RP INITIALIZE] > [INIT ALL], then reset the ID and password.

Note that when this operation is performed, all the setting values on this unit are returned to the factory defaults.

# Displaying the [Setting] tab

2 <sup>ID:</sup>	L				3 PASSWORD:			
e Auto	IP Cam Assign 4	Preset Na	ame User Auth. 1 6	Update Data 7	8	9	10	11
	CAMERA GROUP	CAMERA NO	ONTRL TYPE	CAMERA NAME	MAC ADDRESS	IP ADDRESS	CAMERA PORT NO	SWAP ^
		CAM1	No Asign 🗸 🗸		00:00:00:00:00:00	0. 0. 0. 0	80	~
		CAM2	NoAsign ~	·	00:00:00:00:00:00	0. 0. 0. 0	80	~
	1	CAM3	NoAsign ~	·	00:00:00:00:00:00	0. 0. 0. 0	80	~
	[1-5]	CAM4	NoAsign ~		00:00:00:00:00:00	0. 0. 0. 0	80	~
		CAM5	NoAsign ~	•	00:00:00:00:00:00	0. 0. 0. 0	80	~
		CAM6	NoAsign ~	•	00:00:00:00:00:00	0. 0. 0. 0	80	~
		CAM7	NoAsign ~	•	00:00:00:00:00:00	0. 0. 0. 0	80	~
	2	CAM8	NoAsign ~	•	00:00:00:00:00:00	0. 0. 0. 0	80	~
	[6-10]	CAM9	NoAsign ~	•	00:00:00:00:00:00	0. 0. 0. 0	80	~
		CAM10	NoAsign ~	•	00:00:00:00:00:00	0. 0. 0. 0	80	~
		CAM11	NoAsign ~	•	00:00:00:00:00:00	0. 0. 0. 0	80	~
		CAM12	NoAsign ~	•	00:00:00:00:00:00	0. 0. 0. 0	80	~
	3	CAM13	NoAsign ~	•	00:00:00:00:00:00	0. 0. 0. 0	80	~
	[11-15]	CAM14	NoAsign ~	•	00:00:00:00:00:00	0.0.0.0	80	~
		CAM15	NoAsign ~	•	00:00:00:00:00:00	0.0.0.0	80	~
		CAM16	NoAsign ~		00:00:00:00:00:00	0.0.0.0	80	~
		CAM17	NoAsign ~		00:00:00:00:00:00	0.0.0.0	80	~
	4	CAM18	NoAsign ~		00:00:00:00:00:00	0.0.0.0	80	~
	[16-20]	CAM19	NoAsign ~	·	00:00:00:00:00:00	0.0.0.0	80	~
		CAM20	NoAsign ~	•	00:00:00:00:00:00	0.0.0.0	80	~ <b>v</b>
	RENEW	KEI	EP REFR	5611	ALL CLEAR	SET	0.01	NCEL

# 1 IP

2 ID

Set the IP address for the AW-RP60 to be connected.

# Set the ID registered in the AW-RP60 to be connected.

# 3 PASSWORD

Set the password registered in the AW-RP60 to be connected. The password is displayed as "\*".

When operating the buttons for each menu item (tab), the account information (1 to 3) above is used for the authentication by AW-RP60.

# 4 CAMERA GROUP

The camera group number is displayed.

# 5 CAMERA NO

The camera number is displayed.

# 6 CNTRL TYPE

Select the connection type. Click on the right and select the connection type from amongst [Serial], [Network], and [NoAsign]. Serial : Serial connection Network : IP connection NoAsign : No setting Camera numbers [CAM1] to [CAM5] can be selected for [Serial].

# 7 CAMERA NAME

Displays the camera name set on the remote camera.

• These are displayed when they are acquired with [AUTO IP SET] on the main unit or with [AUTO IP CAM ASSIGN] on this software.

# 8 MAC ADDRESS

- Displays the MAC addresses of remote cameras with links set with camera numbers of this unit.
- These are displayed when they are acquired with [AUTO IP SET] on the main unit or with [AUTO IP CAM ASSIGN] on this software.

# 9 IP ADDRESS

Set the IP address of the remote camera that will be the connection destination.

# 10 CAMERA PORT NO

Set the port number of the remote camera that will be the connection destination. After input, click the [SAVE] button to reflect the changed content. Settable range: 1 to 65535

However, even within this range, the following values cannot be set.

# 11 SWAP CAMERA

You can switch the remote camera set as the connection destination between 2 camera numbers. Camera numbers [CAM1] to [CAM200] are displayed when is clicked. For remote cameras selected as [Serial] in [CNTRL TYPE], you can swap in the range between [CAM1] and [CAM5].

# 12 RENEW button

Executes the AUTO IP (RENEW IP ADR) function of the unit. Then, among the camera numbers of the remote cameras newly detected by the unit, those that can be used to set up connections to the unit are displayed in yellow. When pressing the SET button, the setting is complete and updated.

# 13 KEEP button

Executes the AUTO IP (KEEP IP ADR) function of the unit. Then, among the camera numbers of the remote cameras newly detected by the unit, those that can be used to set up connections to the unit are displayed in yellow. When pressing the SET button, the setting is complete and updated.

# 14 REFRESH button

Displays the connection information set in the unit on the [Setting] screen.

# 15 ALL CLEAR button

Clear all setting data.

# 16 SET button

Reflects the set data to AW-RP60.

# 17 CANCEL button

Cancels the settings.

# Displaying the [Auto IP Cam Assign] tab

When a [NETWORK SEARCH] is executed and applicable remote cameras are found, they are displayed in a list. The list shows then in the order they were found.

CAMERA NAME	2 MAC ADDRESS	3 IP ADDRESS	4 CAMERA PORT NO	5 ASSIGN ^
	00:00:00:00:00:00	0. 0. 0. 0	80	× 1
	00:00:00:00:00:00	0. 0. 0. 0	80	~
	00:00:00:00:00:00	0. 0. 0. 0	80	~
	00:00:00:00:00:00	0. 0. 0. 0	80	~
	00:00:00:00:00:00	0. 0. 0. 0	80	~
	00:00:00:00:00:00	0. 0. 0. 0	80	~
	00:00:00:00:00:00	0. 0. 0. 0	80	~
	00:00:00:00:00:00	0.0.0.0	80	~
	00:00:00:00:00:00	0.0.0.0	80	~
	00:00:00:00:00:00	0.0.0.0	80	~
	00:00:00:00:00:00	0.0.0.0	80	~
	00:00:00:00:00:00	0.0.0.0	80	~
	00:00:00:00:00:00	0.0.0.0	80	~
	00:00:00:00:00:00	0.0.0.0	80	~
	00:00:00:00:00:00	0.0.0.0	80	~
	00:00:00:00:00:00	0.0.0.0	80	~
	00:00:00:00:00:00	0.0.0.0	80	~
	00:00:00:00:00:00	0.0.0.0	80	~
	00:00:00:00:00:00	0.0.0.0	80	~
	00:00:00:00:00:00	0.0.0.0	80	× +

#### 1 CAMERA NAME

The camera names found in the search are displayed.

### 2 MAC ADDRESS

The MAC address found in the search are displayed.

#### 3 IP ADDRESS

The IP address found in the search are displayed.

# 4 CAMERA PORT NO

The port numbers found in the search are displayed.

# 5 ASSIGN CAM NO

- Allocate the camera numbers to be assigned to the remote cameras returned in the search results.
- Camera number allocations made here are reflected in the main unit.

# 6 NETWORK SEARCH button

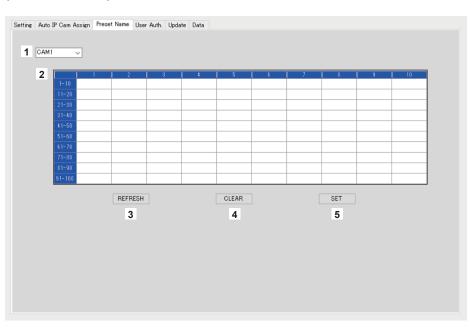
Acquires the network information of cameras existing in the network, then displays them as items on the [Auto IP Cam Assign] tab.

## 7 SET button

Reflects the set data to AW-RP60.

# Displaying the [Preset Name] tab

You can set a name of up to 8 characters for a preset number.



#### 1 Camera number

Select the camera number for which settings are to be edited.

2 Setting area for PRESET names Set a name for each PRESET number. When [LOAD] is used to load a file, the name at the time of saving is displayed. Names can be a maximum of 8 characters. The following characters can be displayed.

Half-size numeric characters	0123456789
Half-size alphabetical characters (upper and lower cases)	ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz
Symbols	, + / ( ) [ ] (and spaces)

# 3 REFRESH button

Displays the name set in the unit on the [Preset Name] screen.

4 **CLEAR** button

Cancels the settings.

#### 5 SET button

Reflects the set data to AW-RP60.

# Displaying the [User Auth.] tab

Perform user authentication settings for the connection destination remote camera. Cameras can be set individually or all at once.

Setting	Auto IP Cam Assign	Preset Name Use	r Auth. Update Data		
1	ALL 🗸				
2	New User Name				
4	New Password Retype New Passwor	d			
				_	
			SET		
			5		

# 1 Camera number

Select the camera number for which user authentication is to be set. Settings are made all at once if [ALL] is selected. When a camera number is selected, the settings can be made for each camera number individually.

# 2 New User Name

Set an ID to connect the camera which will be registered as a new camera.

# 3 New Password

Set a password to connect the camera which will be registered as a new camera. The password is displayed as "\*".

## 4 Retype New Password

To check, the same password as entered in [New Password] is typed. The password is displayed as "\*".

#### 5 SET button

Reflects the set data to AW-RP60.

# Displaying the [Update] tab

Upgrades the software version of the AW-RP60.

ietting	Auto IP Cam Assign	Preset Name	User Auth.	Update	Data				
1	FILE SELECT								
[									
							DATE		
						<b>2</b> UPI	DATE		
					/				

# 1 FILE SELECT button

Selects the file to be used for the upgrade and displays it.

# 2 UPDATE button

Upgrades the software of the AW-RP60.

The status during the upgrade is displayed as transfer data size/data size (the size of the file for upgrading). Note that if the FPGA version is the same, only the software is upgraded. After the upgrade is complete, turn the power OFF then ON to restart AW-RP60.

# Displaying the [Data] tab

Enables [UPLOAD] and [DOWNLOAD] of AW-RP60 setting data or camera data.

Setting	Auto IP Cam Assign	Preset Name	User Auth. Up	jate Data			
1	Camera data						
			[	DOWNLOAD	UPLOAD		
2	RP DATA			3	4		
				DOWNLOAD 3	UPLOAD 4		

# 1 CAMERA DATA

You can save the SCENE data (SCENE 1 to 4) of the connected camera or settings data (ALL) of the camera. This is only enabled for cameras which support any communication IF available for their SCENE data or settings data.

# 2 RP DATA

Saves the setting data being managed on AW-RP60.

Menus saved	
FUNCTION	USER ASSIGN
MAINTENANCE	GPI TALLY
	GPIO CAM SEL
	GPO CAM.G
	GPI PMEM
	GPI PMEM.G

# Menus and items saved

FUNCTION	PTZ INFO1	ZOOM MIN SPD P/T CURVE FOCUS/IRIS
MAINTENANCE	RP SETTING	LCD BRIGHT LED BRIGHT BUZZER GPIO MODE
PMEM	SETTING	RP CTRL SPD MODE
SYSTEM	CAMERA	AUTO POWER
	CONNECT SETTING	CAM1 to CAM200
	MANUAL IP SET/USER AUTH	CAM SEL CAM IP PORT USER NAME PASSWORD
	RP IP SET	NETWORK SETTING SUBNET GATEWAY PORT C1 to PORT C5
	TRACKING	TRACKING CONT IP PORT

# 3 DOWNLOAD button

CAMERA DATA	Saves the settings for remote cameras connected to AW-RP60 to the specified path. The save destination selection dialog is displayed when the <download> button is pressed. Specify the save destination and the name of the file to be saved.</download>
RP DATA	Saves the AW-RP60 settings to the specified path. The save destination selection dialog is displayed when the <download> button is pressed. Specify the save destination and the name of the file to be saved.</download>

# 4 UPLOAD button

CAMERA DATA	Uploads data from the specified path to remote cameras that are connected to AW-RP60. The file selection dialog is displayed when the <upload> button is pressed. Specify the file.</upload>
RP DATA	Uploads data from the specified path to the AW-RP60. The file selection dialog is displayed when the <upload> button is pressed. Specify the file.</upload>

# Messages

# IP connection settings

Indication	Description
Unavailable network setting	The entered IP address, subnet mask, or port number cannot be set. Enter a correct value. For details, refer to "Network settings of the unit" (page 27).
IP Duplicate!	The entered IP address is a duplicate of the IP address set for another item (the connection destination IP address for another camera number or the IP address of the unit).
Please reboot RP	The unit needs to be rebooted. Turn the unit's power off and then back on.

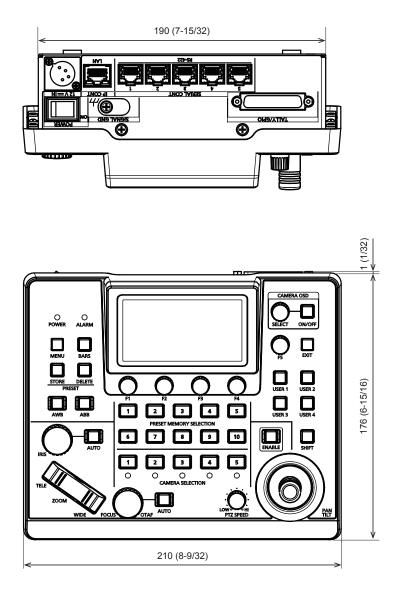
# Setup software

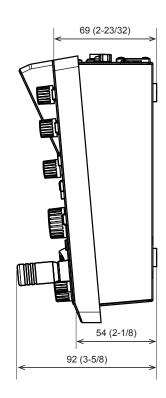
Indication	Description
Unavailable network setting.	The entered IP address and port number cannot be set. Set correct values. For details, refer to "Network settings of the unit" (page 27) to "Settings for connecting with the remote cameras" (page 29).
Entered information is incorrect. Enter again.	The entered information includes characters that cannot be used on the unit.
Complete the "New User Name" field.	Enter the user name in the "New User Name" box.
Complete the "New Password" field.	Enter the password in the "New Password" box.
Complete the "Retype New Password" field.	Enter the password in the "Retype New Password" box.
Password entered in the "Retype New Password" field is incorrect.	The password entered in the "Retype New Password" box does not match the one entered in the "New Password" box.

# Troubleshooting

Symptom	Cause and Measure	Reference Page
Connet turn the newer of the	Is external DC power being supplied?	-
Cannot turn the power of the unit on.	Is the DC plug of the external DC power supply connected to the unit properly?	_
	Is a power supply connected to the remote camera properly?	_
	Are the remote camera and unit connected properly?	P. 15 to P. 17
	Are the connection settings correct?	P. 29 to P. 36
Cannot operate a remote camera.	<ul> <li>Is the remote camera in the standby state?</li> <li>→ Turn on the power of the remote camera.</li> </ul>	P. 19
	Is the remote camera selected properly?	P. 21 to P. 22
	• Is the ENABLE button indicator on?	P. 18
	• Has user authentication been set for the remote camera?	P. 78
The remote camera moves in the opposite direction to the operation of the PAN/TILT	<ul> <li>Is the installation method setting configured for the remote camera?</li> <li>→ The setting needs to be configured in accordance with the actual installation state (mounted right side up or upside down).</li> <li>Refer to the Operating Instructions for the remote camera.</li> </ul>	_
lever.	• Is the movement direction set properly on the unit?	P. 50
The remote camera moves in the opposite direction to operation of the ZOOM button and FOCUS dial.	• Is the movement direction set properly on the unit?	P. 50

Unit: mm (inch)





# Specifications

Power supply:

12 V DC (===) (10.8 V to 13.2 V) 42 V - 57 V DC (----) (PoE power supply) Current consumption: 0.9 A (XLR IN connector) 0.3 A (PoE power supply)

☐ indicates safety information.

# General

Ambient operating temperature: Allowable humidity: Storage temperature: Weight: Dimensions (W × H × D):

0 °C to 40 °C (32 °F to 104 °F) 20% to 90% (no condensation) -20 °C to 50 °C (-4 °F to 122 °F) Approx. 1.5 kg (3.3 lb) 210 mm × 92 mm × 177 mm (8-9/32 inches × 3-5/8 inches × 6-31/32 inches) (excluding protrusions)

# Input/output connectors

# DC 12 V IN (XLR 4-pin)

# LAN (RJ-45) (with LED):

10BASE-T/100BASE-TX, PoE input Connection cable: LAN cable, max. 100 m (328 ft)

- When connecting the unit via a switching hub: Straight cable (category 5e), STP (Shielded Twisted Pair) cable recommended
- When connecting the unit directly:
- Crossover cable (category 5e), STP (Shielded Twisted Pair) cable recommended
- REMOTE:
- Available only for LAN (RJ45) control

## SERIAL CONT (RJ-45):

RS-422 (control signals for remote cameras), TALLY OUT Connecting cable: Straight cable (category 5e), max. 1000 m (3280 ft) TALLY OUT: Open collector output (negative logic) Maximum voltage resistance DC 24 V, Maximum current 50 mA

# TALLY/GPIO (D-sub 25-pin, female, inch thread):

- TALLY IN : Contact input (Status operation)
- GPIO IN : Contact input (Trigger operation)
- GPIO OUT : Open collector output (negative logic) Maximum voltage resistance DC 24 V, Maximum current 10 mA
- Refer to page 86 for details about the pin layout.

# LCD panel

3.5 inch LCD (QHD: 960 × 540)

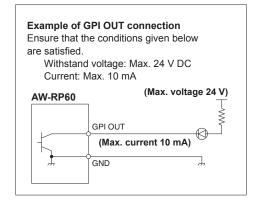
The symbols on this product represent the following:

---- DC

# 1. TALLY/GPIO (JST: JBY-25S-1A3F(LF)(SN))

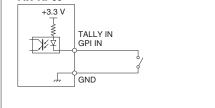
Select [MAINTENANCE] > [RP SETTING] > [GPIO MODE], then you can assign MODE1 or MODE2 to the settings.

3	Din n	umbar	ber Signal name Description of signal		on of signal	
000000000000000000000000000000000000000		Pin number Signal name		MODE1	MODE2	
0000000000000			DSU_GPIO_1	R_TALLY_IN1	CAM_SEL_IN1	
25 14		14	DSU_GPIO_2	R_TALLY_IN2	CAM_SEL_IN2	
	2		DSU_GPIO_3	R_TALLY_IN3	CAM_SEL_IN3	
		15	DSU_GPIO_4	R_TALLY_IN4	CAM_SEL_IN4	
	3		DSU_GPIO_5	R_TALLY_IN5	CAM_SEL_IN5	
		16	DSU_GPIO_6	G_TALLY_IN1	CAM_GRP_SEL OUT1	
	4		DSU_GPIO_7	G_TALLY_IN2	CAM_GRP_SEL OUT2	
		17	DSU_GPIO_8	G_TALLY_IN3	CAM_GRP_SEL OUT3	
	5		DSU_GPIO_9	G_TALLY_IN4	CAM_GRP_SEL OUT4	
		18	DSU_GPIO_10	G_TALLY_IN5	CAM_GRP_SEL OUT5	
	6		DSU_GPIO_11	PMEM_GROUP_IN1	CAM_GRP_SEL OUT6	
		19	DSU_GPIO_12	PMEM_GROUP_IN2	CAM_GRP_SEL OUT7	
	7		DSU_GPIO_13	PMEM_GROUP_IN3	CAM_GRP_SEL OUT8	
		20	DSU_GPIO_14	PMEM_GROUP_IN4	PMEM_SEL_IN1	
	8		DSU_GPIO_15		PMEM_SEL_IN2	
		21	DSU_GPIO_16	CAM_SEL_OUT1	PMEM_SEL_IN3	
	9		DSU_GPIO_17	CAM_SEL_OUT2	PMEM_SEL_IN4	
		22	DSU_GPIO_18	CAM_SEL_OUT3	PMEM_SEL_IN5	
	10		DSU_GPIO_19	CAM_SEL_OUT4	PMEM_SEL_IN6	
		23	DSU_GPIO_20	CAM_SEL_OUT5	PMEM_SEL_IN7	
	11		DSU_GPIO_21		PMEM_SEL_IN8	
		24	DSU_GPIO_22		PMEM_SEL_IN9	
	12		DSU_GPIO_23		PMEM_SEL_IN10	
		25	 GND	GND	GND	
	13		DSU_GPIO_24	ALARM_OUT	ALARM_OUT	



Example of TALLY IN and GPI IN connections Provide contact inputs.





# 2. SERIAL CONT 1 to 5 (RJ-45)

Use LAN cables to connect Panasonic remote cameras with serial (RS422) connections. Connect them with straight cables (category 5e or better shielded cable).

Pin number	Signal name	Description of signal
1	GND	Frame ground
2	TALLY	Tally output (open collector)
3	TXD –	Send data (–)
4	RXD –	Receive data (-)
5	RXD+	Receive data (+)
6	TXD+	Send data (+)
7	NC	Not used
8	NC	Not used

• TALLY (pin number: 2) specifications Voltage withstand: Max. 24 V DC Current: Max. 50 mA

# 3. IP CONT (RJ-45)

Complies with 10BASE-T/100BASE-TX. Allowing connection to a network device that supports the PoE standard (IEEE802.3af compliant).

# 4. 12V == IN (DC 12 V)

Hirose Electric: HA16RA-4P (77) Accepts DC 12 V inputs from an external power supply. Input voltage range: 10.8 V to 13.2 V

	Pin No.	Function
	1	GND
	2	NC
	3	NC
	4	+12V

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# Panasonic Corporation Web Site: https://www.panasonic.com