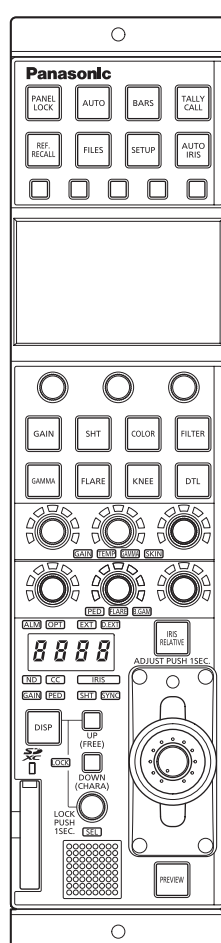# Operating Guide

## Remote Operation Panel

Model No. **AK-HRP1015G**

Read this document when using the AK-HRP1015G Remote Operation Panel in conjunction with AW-UE70 Series 4K Integrated Cameras or AW-HE35/AW-HE38/AW-HE40/AW-HE70 Series HD Integrated Cameras.



For details of operating Remote Operation Panel AK-HRP1015G, please visit the Panasonic website (https://pro-av.panasonic.net/manual/en/index.html), and refer to the Operating Instructions (HTML or PDF).
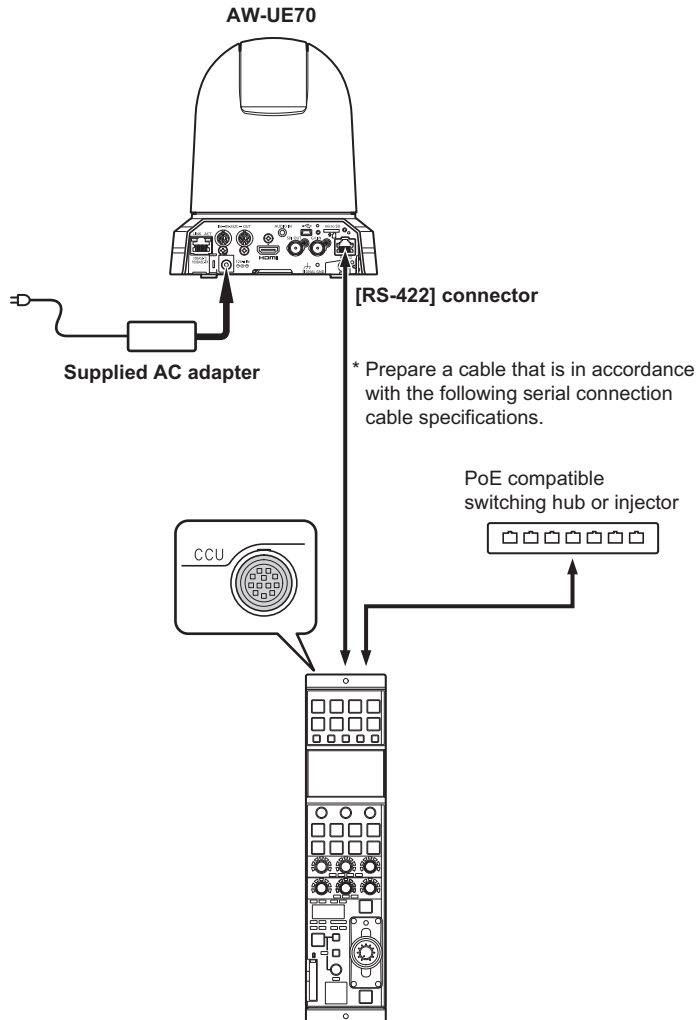
## Panasonic

# Table of Contents

# Connecting the Unit to AW-UE70/AW-HE35/AW-HE38/AW-HE40/AW-HE70 Series Cameras

## Connection examples

**▌ Serial connection with AW-UE70**

**AW-UE70**

**[RS-422] connector**

**Supplied AC adapter**

* Prepare a cable that is in accordance with the following serial connection cable specifications.

PoE compatible switching hub or injector

CCU

**▌ IP connection with AW-UE70**

**AW-UE70**

**[LAN ACT/LINK] connector**

**Supplied AC adapter**

LAN cable (straight cable)

Switching hub with PoE support

LAN cable (straight cable)

LAN

PUSH
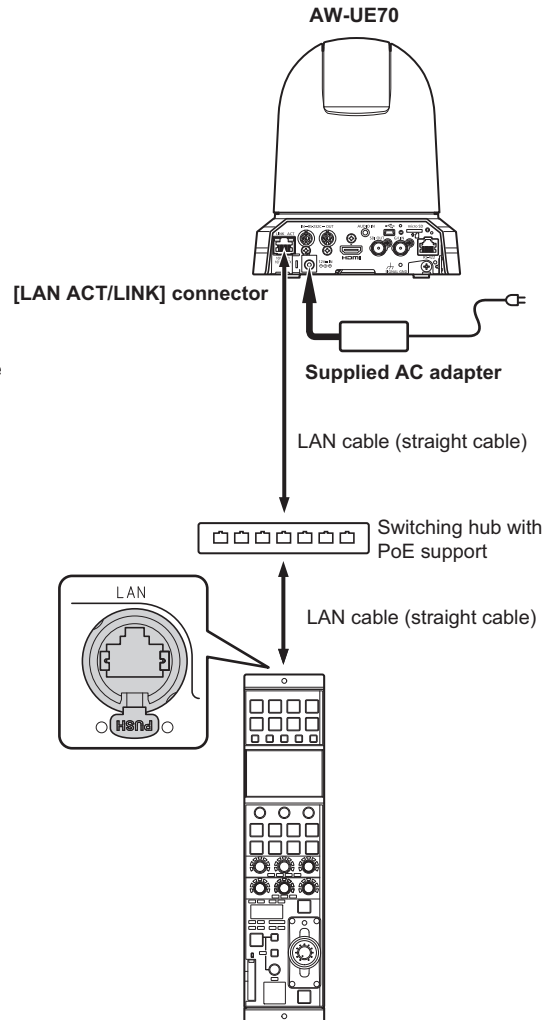
**▍ Serial connection with AW-HE35/AW-HE38/AW-HE40/AW-HE70**

**▍ IP connection with AW-HE35/AW-HE38/AW-HE40/AW-HE70**

**AW-HE35/AW-HE38/**
**AW-HE40/AW-HE70**

**AW-HE35/AW-HE38/**
**AW-HE40/AW-HE70**

**[RS-422] connector**

**[LAN ACT/LINK] connector**

**Supplied AC adapter**

**Supplied AC adapter**

\* Prepare a cable that is in accordance
with the following serial connection
cable specifications.

LAN cable (straight cable)

CCU

PoE compatible
switching hub or injector

Switching hub with
PoE support

LAN

LAN cable (straight cable)
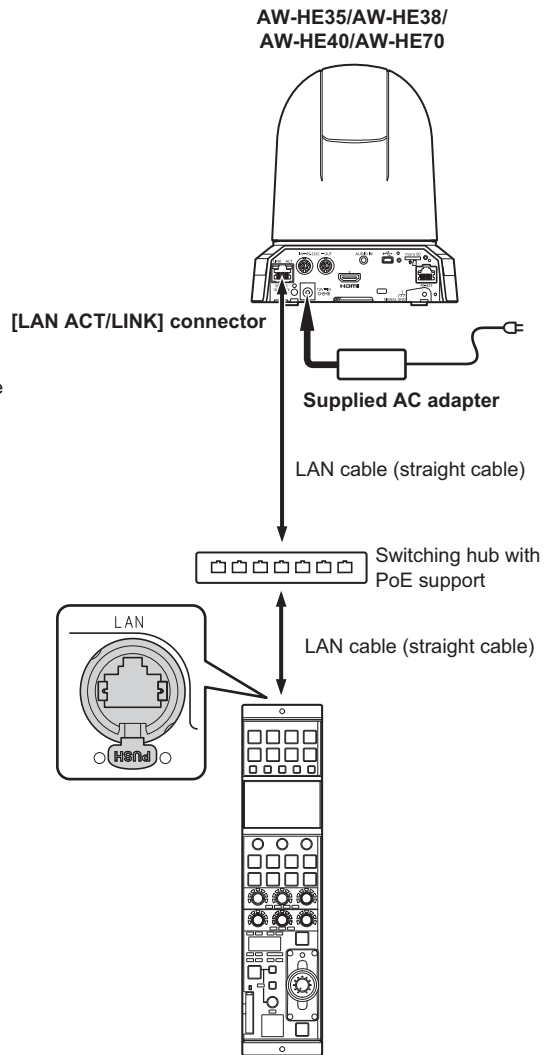
**▍ Serial connection cable specifications**

**AW-UE70/AW-HE35/AW-HE38/**
**AW-HE40/AW-HE70**
**[RS-422] connector side (RJ45)**

| 1 | GRD |
| 2 | TALLY |
| 3 | RXD- |
| 4 | TXD- |
| 5 | TXD+ |
| 6 | RXD+ |
| 7 | — |
| 8 | — |

**AK-HRP1015G**
**[CCU] connector side**

| Pin No. | Function | Polarity | Flow of signal |
|---------|----------|----------|----------------|
| 1 | CAM DATE(H) | + | CAM→ ROP |
| 2 | COM DATE(L) | − | CAM→ ROP |
| 3 | COM CONT(H) | + | ROP → CAM |
| 4 | COM CONT(L) | − | ROP → CAM |
| 5 | COM No. A | | |
| 6 | COM No. B | | |
| 7 | COM No. C | | |
| 8 | COM No. D | | |
| 9 | 12 V | | |
| 10 | GND | | |

Hirose: HR10A-10P-105(73)

## Connections

- Set the connection setting to [Serial(AW3)] or [LAN(AW3)] in the [CONNECT SETTING] menu.

```
CONNECT SETTING              1 / 17
————————— CONNECT MODE(push) —————————
    CAM1              CAM2              CAM3
  S e r i a l        L A N
  ( A W 3 )         ( A W 3 )            NON

————————— CONNECT MODE(push) —————————
    CAM4              CAM5              CAM6
    NON               NON               NON
```
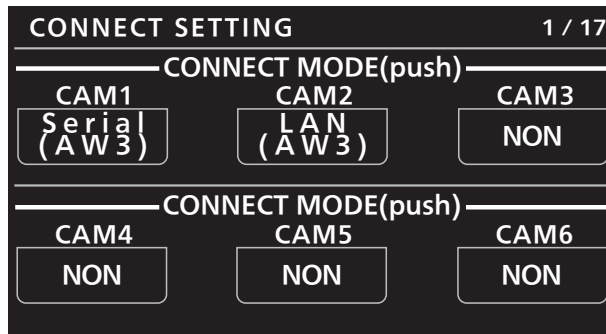
📝 *NOTE*

- To connect with the AW-UE70/AW-HE35/AW-HE38/AW-HE40/AW-HE70, upgrade the system version of the unit to 2.00-00-0.00 or later.

- When connecting, observe the following points.
  **Serial connection**

    - Use a dedicated cable to connect the [CCU] connector of this unit to the [RS-422] connector of the AW-UE70/AW-HE35/AW-HE38/AW-HE40/AW-HE70.
    - Use a PoE power supply for the power supply.

  **LAN connection**

    - Connect the [LAN] connector on this unit to the [LAN ACT/LINK] connector on the AW-UE70/AW-HE35/AW-HE38/AW-HE40/AW-HE70 using a LAN cable (sold separately).
    - Configure the camera IP address and port number settings of the connection destinations in [CAMERA IP SETTING] as well.
    - This unit can be powered using PoE. Use a switching hub with PoE support.
    - Use a straight cable (category 5e or higher; up to 100 m (328.0 ft) in length) for the LAN cable (STP).

- For details on switching hubs and PoE injectors that have been verified to support PoE, consult with your dealer.

# Compatible Functions List

When the unit is used in conjunction with an AW-UE70 Series 4K Integrated Camera or AW-HE35/AW-HE38/AW-HE40/AW-HE70 Series HD Integrated Camera, there will be functions that are limited or disabled for some of the unit's buttons, dials, and other controls. Be sure to refer to the following table.
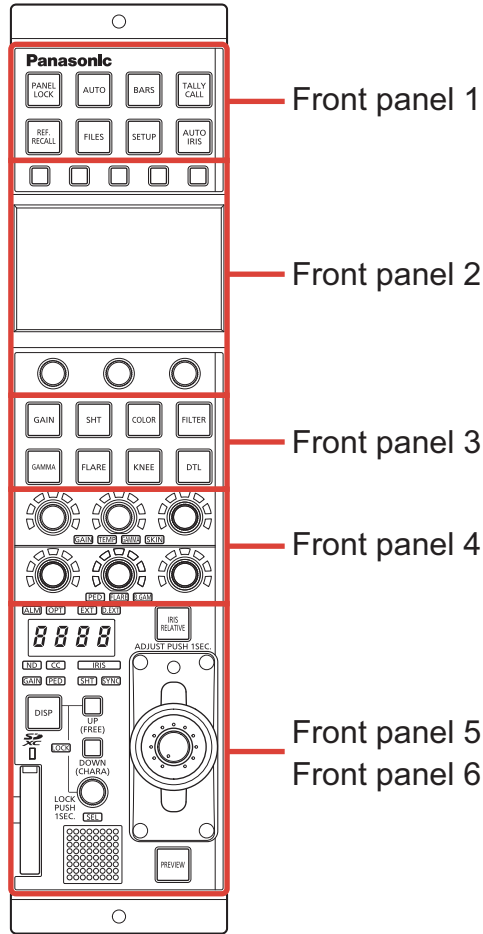


| Number | Part name | ✓ : Enabled<br>×: Disabled | Remarks |
|---|---|---|---|
| Front panel 1 | [PANEL LOCK] button | ✓ | |
| | [AUTO] button | ✓ | If auto setup has been assigned, this will not operate. |
| | [BARS] button | ✓ | Only the ON/OFF for the color bar signal output will function. |
| | [TALLY/CALL] lamp/button | × | |
| | [REF. RECALL] button | × | |
| | [FILES] button | ✓ | This is always lit. |
| | [SETUP] button | ✓ | |
| | [AUTO IRIS] button | ✓ | |
| Front panel 2 | Function buttons | ✓ | |
| | LCD panel | ✓ | |
| | Menu operation dials | ✓ | |

| Number | Part name | ✓ : Enabled<br>×: Disabled | Remarks |
|---|---|:---:|---|
| Front panel 3 | [GAIN] button | ✓ | When this button is pressed, the gain menu appears on the LCD panel. The button is lit during menu display. |
| | [SHT] button | ✓ | When this button is pressed, the shutter menu appears on the LCD panel. The button is lit during menu display. |
| | [COLOR] button | ✓ | The menus will switch with each press of the button. The button is lit during menu display. [CHROMA] > [COLOR CORRECTION] > Menu off (status screen) |
| | [FILTER] button | ✓ | When this button is pressed, the filter menu appears on the LCD panel. The button is lit during menu display. |
| | [GAMMA] button | ✓ | When this button is pressed, the gamma menu appears on the LCD panel. The button is lit during menu display. |
| | [FLARE] button | × | |
| | [KNEE] button | × | |
| | [DTL] button | ✓ | The menus will switch with each press of the button. The button is lit during menu display. [DETAIL] > [DNR] > Menu off (status screen) |
| Front panel 4 | [GAIN], [TEMP], [GAMMA], [SKIN] adjustment block | ✓ | When [GAIN] is lit, [GAIN R] and [GAIN B] are adjusted using the red (R) and blue (B) adjustment dials respectively.<br>When [TEMP] is lit, [COLOR TEMP] is adjusted using the green (G) adjustment dial.<br>When [GAMMA] is lit, the master gamma is adjusted using the green (G) adjustment dial.<br>[SKIN] adjustment is disabled. |
| | [PED], [FLARE], [B.GAM] adjustment block | ✓ | When [PED] is lit, [M.PED] is adjusted using the green (G) adjustment dial.<br>[FLARE] and [B.GAM] adjustment is disabled. |

| Number | Part name | ✓ : Enabled<br>×: Disabled | Remarks |
|---|---|:---:|---|
| Front panel 5 | [ALM] indicator | ✓ | |
| | [OPT] indicator | × | |
| | [EXT] indicator | × | |
| | [D.EXT] indicator | ✓ | |
| | Adjustment value display | ✓ | A value is also not displayed when [SHUTTER] is [SYNC]. The display will be bar display.<br>When the shutter speed value is "10000", "9999" is displayed. |
| | [ND] indicator | ✓ | This is enabled only for the AW-UE70. |
| | [CC] indicator | ✓ | This lights but does not function. |
| | [IRIS] indicator | ✓ | The iris value is not displayed. |
| | [GAIN] indicator | ✓ | |
| | [PED] indicator | ✓ | |
| | [SHT] indicator | ✓ | |
| | [SYNC] indicator | ✓ | |
| | [DISP] button | ✓ | |
| | [UP (FREE)] button | ✓ | |
| | [DOWN (CHARA)] button | ✓ | |
| | [LOCK] indicator | ✓ | |
| | [SEL] dial | ✓ | |
| Front panel 6 | Memory card slot | ✓ | |
| | Memory card access indicator | ✓ | |
| | Camera number/tally display | ✓ | |
| | [IRIS RELATIVE] button | ✓ | |
| | Torque adjustment screw | ✓ | |
| | IRIS lever | ✓ | |
| | Master pedestal dial | ✓ | |
| | [PREVIEW] button | × | |

# ROP Menu (when AW-UE70/AW-HE35/AW-HE38/AW-HE40/AW-HE70 is connected)

## ROP menu list

When an AW-UE70 4K Integrated Camera or AW-HE35/AW-HE38/AW-HE40/AW-HE70 HD Integrated Camera is connected, the ROP menu will be as follows.

For details on menu operations, refer to the following sections in the Operating Instructions.

➡ "Displaying menus"

➡ "Basic menu operations"

| | | |
|---|---|---|
| 01 SCENE | MANUAL1(push) | ➡ "MANUAL1(push)" (see page 13) |
| | MANUAL2(push) | ➡ "MANUAL2(push)" (see page 13) |
| | MANUAL3(push) | ➡ "MANUAL3(push)" (see page 13) |
| | FULL AUTO(push) | ➡ "FULL AUTO(push)" (see page 13) |
| 02 SHUTTER SPEED | MODE | ➡ "MODE" (see page 14) |
| | SPEED | ➡ "SPEED" (see page 14) |
| 03 FILTER | ND | ➡ "ND" (see page 15) |
| 04 CHROMA | LEVEL | ➡ "LEVEL" (see page 16) |
| 05 GAIN | GAIN | ➡ "GAIN" (see page 17) |
| | AGC MAX GAIN | ➡ "AGC MAX GAIN" (see page 17) |
| 06 WHITE BALANCE | MODE | ➡ "MODE" (see page 18) |
| | COLOR TEMP | ➡ "COLOR TEMP" (see page 18) |
| | GAIN R | ➡ "GAIN R" (see page 18) |
| | GAIN B | ➡ "GAIN B" (see page 18) |
| 07 GAMMA | TYPE | ➡ "TYPE" (see page 19) |
| | LEVEL | ➡ "LEVEL" (see page 19) |
| | DRS | ➡ "DRS" (see page 19) |
| 08 DETAIL | DTL | ➡ "DTL" (see page 20) |
| | LEVEL H | ➡ "LEVEL H" (see page 20) |
| | LEVEL L | ➡ "LEVEL L" (see page 20) |
| | FLESH TONE MD | ➡ "FLESH TONE MD" (see page 20) |

| | TYPE | ➡ "TYPE" (see page 22) |
|---|---|---|
| | COLOR CORRECT | ➡ "COLOR CORRECT" (see page 22) |
| | SAT | ➡ "SAT" (see page 22) |
| | PHASE | ➡ "PHASE" (see page 22) |
| | SAT B | ➡ "SAT B" (see page 22) |
| | PHASE B | ➡ "PHASE B" (see page 22) |
| | SAT B_B_Mg | ➡ "SAT B_B_Mg" (see page 22) |
| | PHASE B_B_Mg | ➡ "PHASE B_B_Mg" (see page 22) |
| | SAT B_Mg_Mg | ➡ "SAT B_Mg_Mg" (see page 22) |
| | PHASE B_Mg_Mg | ➡ "PHASE B_Mg_Mg" (see page 22) |
| | SAT Mg | ➡ "SAT Mg" (see page 22) |
| | PHASE Mg | ➡ "PHASE Mg" (see page 22) |
| | SAT Mg_R | ➡ "SAT Mg_R" (see page 23) |
| | PHASE Mg_R | ➡ "PHASE Mg_R" (see page 23) |
| | SAT R | ➡ "SAT R" (see page 23) |
| | PHASE R | ➡ "PHASE R" (see page 23) |
| | SAT R_R_Yl | ➡ "SAT R_R_Yl" (see page 23) |
| | PHASE R_R_Yl | ➡ "PHASE R_R_Yl" (see page 23) |
| 09 COLOR CORRECTION | SAT R_Yl_Yl | ➡ "SAT R_Yl_Yl" (see page 23) |
| | PHASE R_Yl_Yl | ➡ "PHASE R_Yl_Yl" (see page 23) |
| | SAT Yl | ➡ "SAT Yl" (see page 23) |
| | PHASE Yl | ➡ "PHASE Yl" (see page 23) |
| | SAT Yl_Yl_G | ➡ "SAT Yl_Yl_G" (see page 23) |
| | PHASE Yl_Yl_G | ➡ "PHASE Yl_Yl_G" (see page 23) |
| | SAT Yl_G_G | ➡ "SAT Yl_G_G" (see page 23) |
| | PHASE Yl_G_G | ➡ "PHASE Yl_G_G" (see page 23) |
| | SAT G | ➡ "SAT G" (see page 23) |
| | PHASE G | ➡ "PHASE G" (see page 23) |
| | SAT G_Cy | ➡ "SAT G_Cy" (see page 23) |
| | PHASE G_Cy | ➡ "PHASE G_Cy" (see page 23) |
| | SAT Cy | ➡ "SAT Cy" (see page 23) |
| | PHASE Cy | ➡ "PHASE Cy" (see page 23) |
| | SAT Cy_Cy_B | ➡ "SAT Cy_Cy_B" (see page 23) |
| | PHASE Cy_Cy_B | ➡ "PHASE Cy_Cy_B" (see page 23) |
| | SAT Cy_B_B | ➡ "SAT Cy_B_B" (see page 23) |
| | PHASE Cy_B_B | ➡ "PHASE Cy_B_B" (see page 23) |
| 10 DNR | DNR | ➡ "DNR" (see page 24) |
| | CONTRAST MODE | ➡ "CONTRAST MODE" (see page 25) |
| | CONTRAST LEVEL | ➡ "CONTRAST LEVEL" (see page 25) |
| 11 CONTRAST | FRAME MIX | ➡ "FRAME MIX" (see page 25) |
| | A.F.MIX MAX GAIN | ➡ "A.F.MIX MAX GAIN" (see page 25) |
| | DAY/NIGHT | ➡ "DAY/NIGHT" (see page 25) |
| | FOCUS MODE | ➡ "FOCUS MODE" (see page 26) |
| | FOCUS SPEED | ➡ "FOCUS SPEED" (see page 26) |
| 12 LENS CONTROL | FOCUS | ➡ "FOCUS" (see page 26) |
| | ZOOM WIDE | ➡ "ZOOM WIDE" (see page 26) |
| | ZOOM SPEED | ➡ "ZOOM SPEED" (see page 26) |
| | ZOOM TELE | ➡ "ZOOM TELE" (see page 26) |

| 13 IRIS RELATIVE | SENSE | Refer to the following section in the Operating Instructions. |
| | COARSE | ➡ "29 IRIS RELATIVE" |
| | RELATIVE | |
| 14 SYSTEM CAM | FORMAT | ➡ "FORMAT" (see page 28) |
| | FREQUENCY | ➡ "FREQUENCY" (see page 28) |
| | I.S. | ➡ "I.S." (see page 28) |
| | BARS TYPE | ➡ "BARS TYPE" (see page 28) |
| | OSD STATUS | ➡ "OSD STATUS" (see page 28) |
| | AUDIO | ➡ "AUDIO" (see page 28) |
| | GENLOCK PHASE | ➡ "GENLOCK PHASE" (see page 28) |
| | HDR | ➡ "HDR" (see page 28) |
| | BACK LIGHT CMP | ➡ "BACK LIGHT CMP" (see page 28) |
| | HEAD PW(push) | ➡ "HEAD PW(push)" (see page 28) |
| 15 CAMERA MENU CONTROL | MENU ON/OFF | ➡ "MENU ON/OFF" (see page 29) |
| | CURSOR/PARAMETER | ➡ "CURSOR/PARAMETER" (see page 29) |
| | EXECUTE | ➡ "EXECUTE" (see page 29) |
| 16 ROP SETTING | IRIS LEV MOD | Refer to the following section in the Operating Instructions. |
| | M.PED CONTROL | ➡ "37 ROP SETTING" |
| | LOCK SELECT | |
| | AUTO BUTTON | |
| | G/M PED VOL | |
| | FREE+LOCK | |
| | CAMERA SELECT | |
| | DTL BUTTON | |
| | SKIN VOL | |
| | LCD BRIGHT | |
| | PANEL BRIGHT | |
| | BUZZER | |
| | PERIOD | |
| | CYCLE | |
| | STD POSITION M.PED | |
| | STD POSITION VAR | |
| | STD POSITION ND | |
| | STD POSITION CC | |
| | IRIS PRIORITY | |
| | ROP DATA SAVE | |
| | ROP DATA LOAD | |
| | INITIAL with NW | |
| | INITIAL | |
| | UPGRADE | |
| | IRIS CALIBRATION TOP | |
| | IRIS CALIBRATION BOTTOM | |
| | SYSTEM VERSION | |
| | SOFT VERSION | |
| | FPGA VERSION | |
| 17 CONNECT SETTING | CONNECT MODE(push) CAM1 | ➡ "CONNECT MODE(push) CAM1" (see page 31) |
| | CONNECT MODE(push) CAM2 to CAM99 | ➡ "CONNECT MODE(push) CAM2 to CAM99" (see page 31) |

| | | |
|---|---|---|
| 18 ROP IP SETTING | ROP IP ADDRESS 1 | Refer to the following section in the Operating Instructions.<br>➡ "39 ROP IP SETTING" |
| | ROP IP ADDRESS 2 | |
| | ROP IP ADDRESS 3 | |
| | ROP IP ADDRESS 4 | |
| | PORT | |
| | UPLOAD | |
| | ROP SUBNET MASK 1 | |
| | ROP SUBNET MASK 2 | |
| | ROP SUBNET MASK 3 | |
| | ROP SUBNET MASK 4 | |
| | UPLOAD | |
| | ROP DEFAULT GATEWAY 1 | |
| | ROP DEFAULT GATEWAY 2 | |
| | ROP DEFAULT GATEWAY 3 | |
| | ROP DEFAULT GATEWAY 4 | |
| | UPLOAD | |
| | MAC ADDRESS | |
| 19 CAMERA IP SETTING | CAM1 to CAM99 IP ADDRESS | Refer to the following section in the Operating Instructions.<br>➡ "40 CAMERA IP SETTING" |
| | CAM1 to CAM99 PORT | |
| | CAM1 to CAM99 UPLOAD | |
| 20 SWITCHER LINK | SWITCHER IP ADDRESS | Refer to the following section in the "Linking the Unit to the AV-HS6000".<br>➡ "47 SWITCHER LINK" |
| | SWITCHER UDP PORT | |
| | INFO UPLOAD | |
| | SWITCHER LINK | |
| | TALLY RECEIVE | |
| | PREVIEW | |
| | TALLY ACTION MATERIAL | |
| | TALLY ACTION CAM No. | |
| 21 AW CONTROLLER LINK | RECEIVE PORT | Refer to the following section in the Operating Instructions.<br>➡ "47 AW CONTROLLER LINK" |
| | INFO UPLOAD | |
| | AW CONT LINK | |

# 01 SCENE

```
SCENE                              1 / 1
MANUAL1         MANUAL2         MANUAL3
 (push)          (push)          (push)
 ┌────────┐     ┌────────┐     ┌────────┐
 │   ON   │     │  OFF   │     │  OFF   │
 └────────┘     └────────┘     └────────┘

FULL AUTO
 (push)
 ┌────────┐
 │  OFF   │
 └────────┘
```

| Item | Setting details |
|------|-----------------|
| **MANUAL1(push)** | Selects a scene file. |
| **MANUAL2(push)** | • When a scene file is set to ON, the other scene files will be set to OFF. |
| **MANUAL3(push)** | |
| **FULL AUTO(push)** | |

## 02 SHUTTER SPEED

```
SHUTTER SPEED                    1 / 1

     MODE            SPEED
 ┌─────────┐     ┌─────────┐
 │   OFF   │     │   100   │
 └─────────┘     └─────────┘
 ─────────────────────────────────
```
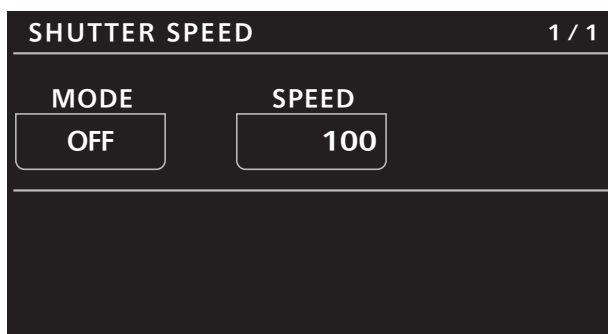
| Item | Setting details |
|------|-----------------|
| **MODE** | Selects the operation mode of the shutter. |
| **SPEED** | Sets the shutter speed. The setting can be changed when [MODE] is [STEP].<br>● The shutter speed of [SYNC] is not displayed. |

## 03 FILTER

```
FILTER                              1 / 1

      ND
    ┌──────┐
    │  1   │              - 15 -
    └──────┘
    ───────────────────────────────────
```

| Item | Setting details |
|------|-----------------|
| **ND** | Sets the ND filter position. |

## 04 CHROMA

```
CHROMA                          1 / 1

   LEVEL
   +2                  - 16 -
```

| Item | Setting details |
|------|-----------------|
| **LEVEL** | Sets the color intensity of images. |

## 05 GAIN

```
GAIN                                1 / 1

                        AGC
      GAIN            MAX GAIN
    ┌─────────┐      ┌─────────┐
    │  AUTO   │      │   24    │
    └─────────┘      └─────────┘
```
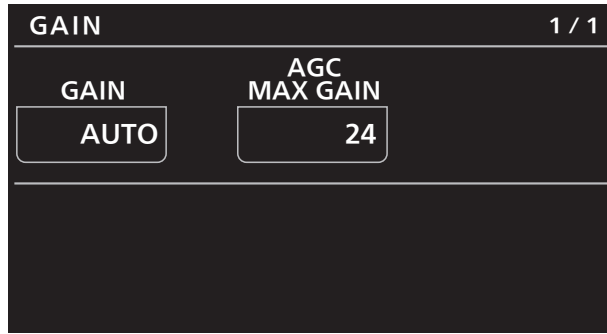
| Item | Setting details |
|---|---|
| **GAIN** | Adjusts the gain of images. |
| **AGC MAX GAIN** | When [AUTO] is selected as the [GAIN] setting, the maximum gain-up amount can be set. |

## 06 WHITE BALANCE

WHITE BALANCE                                    1 / 1

MODE
AWB A

COLOR
TEMP
3200K

GAIN

R
0

B
0
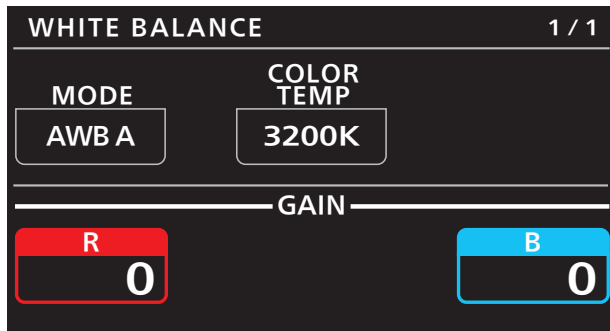
| Item | Setting details |
|------|-----------------|
| **MODE** | Sets the white balance mode. |
| **COLOR TEMP** | Sets color temperature settings. |
| **GAIN R** | Adjusts the R gain. |
| **GAIN B** | Adjusts the B gain. |

## 07 GAMMA

```
GAMMA                              1 / 1

    TYPE            LEVEL            DRS
 ┌──────────┐   ┌──────────┐   ┌──────────┐
 │ NORMAL   │   │   MID    │   │   OFF    │
 └──────────┘   └──────────┘   └──────────┘
────────────────────────────────────────────
```
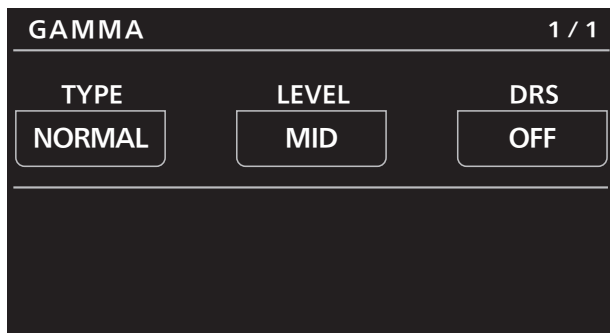
| Item | Setting details |
|------|-----------------|
| **TYPE** | Selects the type of gamma curve. |
| **LEVEL** | Adjusts the gamma correction level. |
| **DRS** | Sets the DRS function which performs correction when video with high light/dark contrast is displayed. |

## 08 DETAIL

```
DETAIL                                1 / 1
                    ──────LEVEL──────
     DTL              H                 L
    LOW              18                 9

    FLESH
   TONE MD
    OFF
```
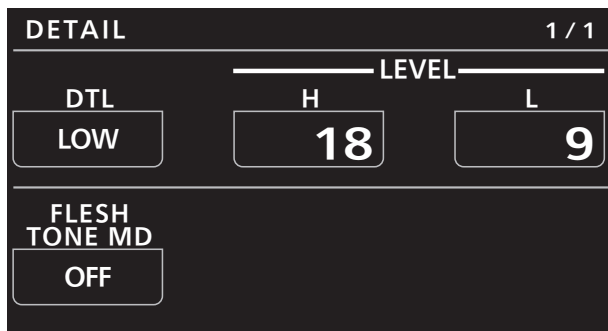
| Item | Setting details |
|---|---|
| **DTL** | Adjusts the image contour (i.e., image sharpness). |
| **LEVEL H** | Adjusts the contour correction level when [DTL] is set to [HIGH]. |
| **LEVEL L** | Adjusts the contour correction level when [DTL] is set to [LOW]. |
| **FLESH TONE MD** | Sets flesh tone mode to make the skin of subjects appear smoother and more attractive. |

## 09 COLOR CORRECTION

```
COLOR CORRECTION                    1 / 9

     TYPE
  NORMAL             - 21 -

    COLOR
   CORRECT          SAT            PHASE
      B               0              0
```

```
COLOR CORRECTION                    2 / 8
     SAT            PHASE
      B               B
      0               0

     SAT            PHASE
   B_B_Mg          B_B_Mg
      0               0
```

```
COLOR CORRECTION                    3 / 9
     SAT            PHASE
   B_Mg_Mg         B_Mg_Mg
      0               0

     SAT            PHASE
     Mg              Mg
      0               0
```

```
COLOR CORRECTION                    4 / 9
     SAT            PHASE
    Mg_R            Mg_R
      0               0

     SAT            PHASE
      R               R
      0               0
```

```
COLOR CORRECTION                    5 / 9
     SAT            PHASE
   R_R_Yl          R_R_Yl
      0               0

     SAT            PHASE
   R_Yl_Yl         R_Yl_Yl
      0               0
```

```
COLOR CORRECTION                    6 / 9
     SAT              PHASE
     Yl                Yl

      0                 0

     SAT              PHASE
   Yl_Yl_G           Yl_Yl_G

      0                 0
```

```
COLOR CORRECTION                    7 / 9
     SAT              PHASE
   Yl_G_G            Yl_G_G

      0                 0

     SAT              PHASE
     G                 G

      0                 0
```

```
COLOR CORRECTION                    8 / 9
     SAT              PHASE
    G_Cy              G_Cy

      0                 0

     SAT              PHASE
     Cy                Cy

      0                 0
```

```
COLOR CORRECTION                    9 / 9
     SAT              PHASE
   Cy_Cy_B          Cy_Cy_B

      0                 0

     SAT              PHASE
   Cy_B_B            Cy_B_B

      0                 0
```

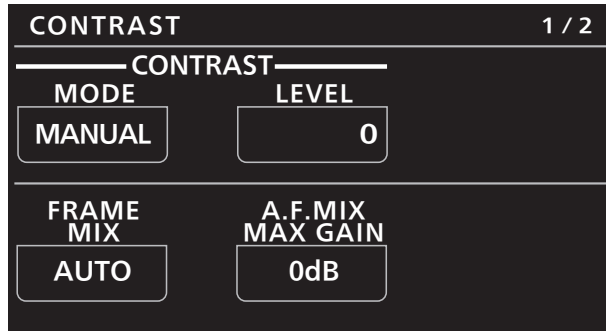| Item | Setting details |
|---|---|
| TYPE | Selects the type of color matrix. |
| COLOR CORRECT | Selects the color component in 12-axis matrix memory to adjust. |
| SAT | Adjusts the saturation of the color component selected in [COLOR CORRECT]. |
| PHASE | Adjusts the hue of the color component selected in [COLOR CORRECT]. |
| SAT B | Adjusts blue color saturation. |
| PHASE B | Adjusts blue hue. |
| SAT B_B_Mg | Adjusts the color saturation with a 3:1 blue and magenta. |
| PHASE B_B_Mg | Adjusts the hue (color phase) with a 3:1 blue and magenta. |
| SAT B_Mg_Mg | Adjusts the color saturation with a 1:3 blue and magenta. |
| PHASE B_Mg_Mg | Adjusts the hue (color phase) with a 1:3 blue and magenta. |
| SAT Mg | Adjusts magenta color saturation. |
| PHASE Mg | Adjusts magenta hue. |

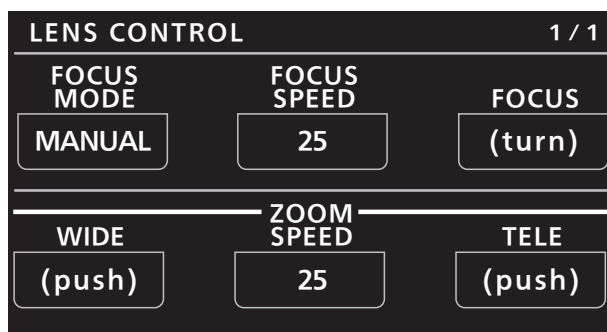| Item | Setting details |
|---|---|
| SAT Mg_R | Adjusts the color saturation between magenta and red. |
| PHASE Mg_R | Adjusts the hue between magenta and red. |
| SAT R | Adjusts red color saturation. |
| PHASE R | Adjusts red hue. |
| SAT R_R_Yl | Adjusts the color saturation with a 3:1 red to yellow ratio. |
| PHASE R_R_Yl | Adjusts the hue (color phase) with a 3:1 red to yellow ratio. |
| SAT R_Yl_Yl | Adjusts the color saturation with a 1:3 red to yellow ratio. |
| PHASE R_Yl_Yl | Adjusts the hue (color phase) with a 1:3 red to yellow ratio. |
| SAT Yl | Adjusts yellow color saturation. |
| PHASE Yl | Adjusts yellow hue. |
| SAT Yl_Yl_G | Adjusts the color saturation with a 3:1 yellow and green ratio. |
| PHASE Yl_Yl_G | Adjusts the hue (color phase) with a 3:1 yellow and green ratio. |
| SAT Yl_G_G | Adjusts the color saturation with a 1:3 yellow and green ratio. |
| PHASE Yl_G_G | Adjusts the hue (color phase) with a 1:3 yellow and green ratio. |
| SAT G | Adjusts green color saturation. |
| PHASE G | Adjusts green hue. |
| SAT G_Cy | Adjusts the color saturation between green and cyan. |
| PHASE G_Cy | Adjusts the hue between green and cyan. |
| SAT Cy | Adjusts cyan color saturation. |
| PHASE Cy | Adjusts cyan hue. |
| SAT Cy_Cy_B | Adjusts the color saturation with a 3:1 cyan and blue ratio. |
| PHASE Cy_Cy_B | Adjusts the hue (color phase) with a 3:1 cyan and blue ratio. |
| SAT Cy_B_B | Adjusts the color saturation with a 1:3 cyan and blue ratio. |
| PHASE Cy_B_B | Adjusts the hue (color phase) with a 1:3 cyan and blue ratio. |

## 10 DNR

```
DNR                                    1 / 1

     DNR
     LOW                    - 24 -
```

| Item | Setting details |
|------|-----------------|
| **DNR** | Sets the level for the noise reduction. |

# 11 CONTRAST

```
CONTRAST                          1 / 2
            ——CONTRAST——
      MODE              LEVEL
   ┌──────────┐      ┌──────────┐
   │ MANUAL   │      │    0     │
   └──────────┘      └──────────┘

      FRAME           A.F.MIX
      MIX            MAX GAIN
   ┌──────────┐      ┌──────────┐
   │  AUTO    │      │   0dB    │
   └──────────┘      └──────────┘
```

```
CONTRAST                          2 / 2
      DAY/
      NIGHT
   ┌──────────┐
   │   Day    │
   └──────────┘
```

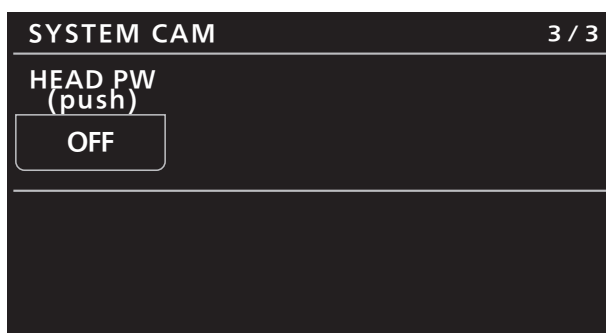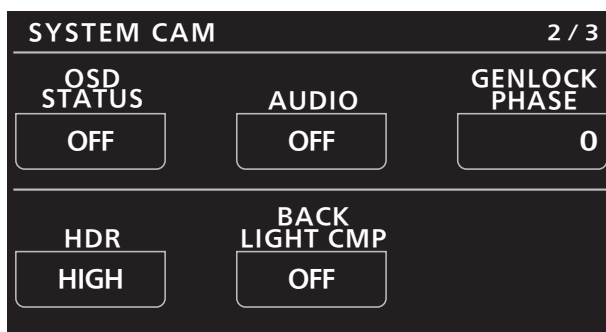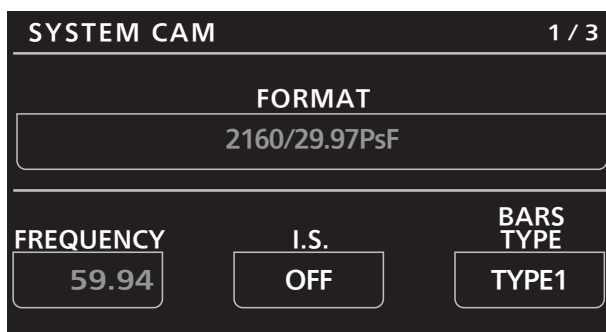| Item | Setting details |
|---|---|
| **CONTRAST MODE** | Selects auto/manual for image brightness (contrast) control. |
| **CONTRAST LEVEL** | Sets the convergence level for adjusting image brightness. |
| **FRAME MIX** | Selects for frame addition (gain-up using sensor storage) amount. |
| **A.F.MIX MAX GAIN** | Sets the maximum amount of frame addition for when [AUTO] is selected in [CONTRAST 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). [AUTO] cannot be selected from the unit. |

## 12 LENS CONTROL

```
LENS CONTROL                    1 / 1
   FOCUS          FOCUS
   MODE           SPEED         FOCUS
  ┌────────┐    ┌────────┐    ┌────────┐
  │ MANUAL │    │   25   │    │ (turn) │
  └────────┘    └────────┘    └────────┘
  ──────────────── ZOOM ────────────────
   WIDE           SPEED         TELE
  ┌────────┐    ┌────────┐    ┌────────┐
  │ (push) │    │   25   │    │ (push) │
  └────────┘    └────────┘    └────────┘
```

| Item | Setting details |
|---|---|
| FOCUS MODE | Selects auto or manual mode for the focus adjustment function. |
| FOCUS SPEED | Adjusts the focus operation speed. |
| FOCUS | Adjusts the lens focus manually. |
| ZOOM WIDE | Adjusts the lens zoom to wide angle (Wide). |
| ZOOM SPEED | Adjusts the zoom operation speed. |
| ZOOM TELE | Adjusts the lens zoom to telephoto (Tele). |

## 13 IRIS RELATIVE

For details on operations and settings, refer to the following sections in the Operating Instructions.

➡ "29 IRIS RELATIVE"

- 27 -

# 14 SYSTEM CAM

| SYSTEM CAM | 1 / 3 |
| --- | --- |

**FORMAT**
2160/29.97PsF

| FREQUENCY | I.S. | BARS TYPE |
| --- | --- | --- |
| 59.94 | OFF | TYPE1 |

| SYSTEM CAM | 2 / 3 |
| --- | --- |

| OSD STATUS | AUDIO | GENLOCK PHASE |
| --- | --- | --- |
| OFF | OFF | 0 |

| HDR | BACK LIGHT CMP |
| --- | --- |
| HIGH | OFF |

| SYSTEM CAM | 3 / 3 |
| --- | --- |

| HEAD PW (push) |
| --- |
| OFF |

| Item | Setting details |
| --- | --- |
| **FORMAT** | Displays the system format. |
| **FREQUENCY** | Displays the frame frequency. |
| **I.S.** | Select the image stabilization mode.<br>● When connected with AW-HE35/AW-HE38/AW-HE40/AW-HE70 series cameras, both the [MODE1] and [MODE2] selection parameters are treated as [ON] on the camera side. |
| **BARS TYPE** | Changes the type of color bar to display. |
| **OSD STATUS** | Enables/disables the status display during AWB. |
| **AUDIO** | Enables/disables audio input. |
| **GENLOCK PHASE** | This is used to adjust the horizontal phase during genlock. |
| **HDR** | Adjusts the effect of the high dynamic range mode. |
| **BACK LIGHT CMP** | Enables/disables the backlight correction function. |
| **HEAD PW(push)** | Turns ON/OFF (STANDBY) the camera power. |

## 15 CAMERA MENU CONTROL
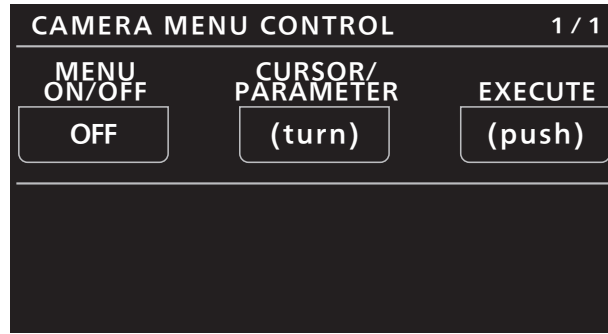
| CAMERA MENU CONTROL | 1 / 1 |
| MENU ON/OFF | CURSOR/ PARAMETER | EXECUTE |
| OFF | (turn) | (push) |

| Item | Setting details |
|---|---|
| **MENU ON/OFF** | Turns the menu on or off. |
| **CURSOR/PARAMETER** | Moves the menu cursor or changes setting values. |
| **EXECUTE** | Executes the selected process. |

# 16 ROP SETTING

For details on operations and settings, refer to the following sections in the Operating Instructions.

➡ "37 ROP SETTING"

## 17 CONNECT SETTING

```
CONNECT SETTING              1 / 17
━━━━━━━ CONNECT MODE(push) ━━━━━━━
   CAM1          CAM2          CAM3
  Serial         LAN
  (AW3)         (AW3)         NON

━━━━━━━ CONNECT MODE(push) ━━━━━━━
   CAM4          CAM5          CAM6
   NON           NON           NON
```

```
CONNECT SETTING              2 / 17
━━━━━━━ CONNECT MODE(push) ━━━━━━━
   CAM7          CAM8          CAM9
   NON           NON           NON

━━━━━━━ CONNECT MODE(push) ━━━━━━━
  CAM10         CAM11         CAM12
   NON           NON           NON
```

```
CONNECT SETTING             17 / 17
━━━━━━━ CONNECT MODE(push) ━━━━━━━
  CAM97         CAM98         CAM99
   NON           NON           NON
```

| Item | Setting details |
|---|---|
| **CONNECT MODE(push) CAM1** | Sets the connection method for camera 1.<br>Changes to settings are applied by pressing the [MENU] dial.<br>Select [LAN(AW3)] and [Serial(AW3)] when connecting with the AW-UE70 series and AW-HE35/AW-HE38/AW-HE40/AW-HE70 series.<br><br>• [Serial(AW3)] cannot be set for multiple cameras. |
| **CONNECT MODE(push) CAM2 to CAM99** | Sets the connection method for cameras 2 to 99.<br>Changes to settings are applied by pressing the [MENU] dial.<br>Select [LAN(AW3)] and [Serial(AW3)] when connecting with the AW-UE70 series and AW-HE35/AW-HE38/AW-HE40/AW-HE70 series.<br><br>• [Serial(AW3)] cannot be set for multiple cameras. |

## 18 ROP IP SETTING

For details on operations and settings, refer to the following sections in the Operating Instructions.

➡ "39 ROP IP SETTING"

## 19 CAMERA IP SETTING

For details on operations and settings, refer to the following sections in the Operating Instructions.

➡ "40 CAMERA IP SETTING"

## 20 SWITCHER LINK

For details on operations and settings, refer to the following section in the "Linking the Unit to the AV-HS6000".

➡ "47 SWITCHER LINK"

## 21 AW CONTROLLER LINK

For details on operations and settings, refer to the following section in the Operating Instructions.

➡ "47 AW CONTROLLER LINK"