

AW-HE40 series Installation & Setup Guide (AW-RP60)

This guide explains the operations and settings for the **AW-HE40 series with the AW-RP60**.

Please refer to the instruction manuals for AW-HE40 series and AW-RP60 for details.

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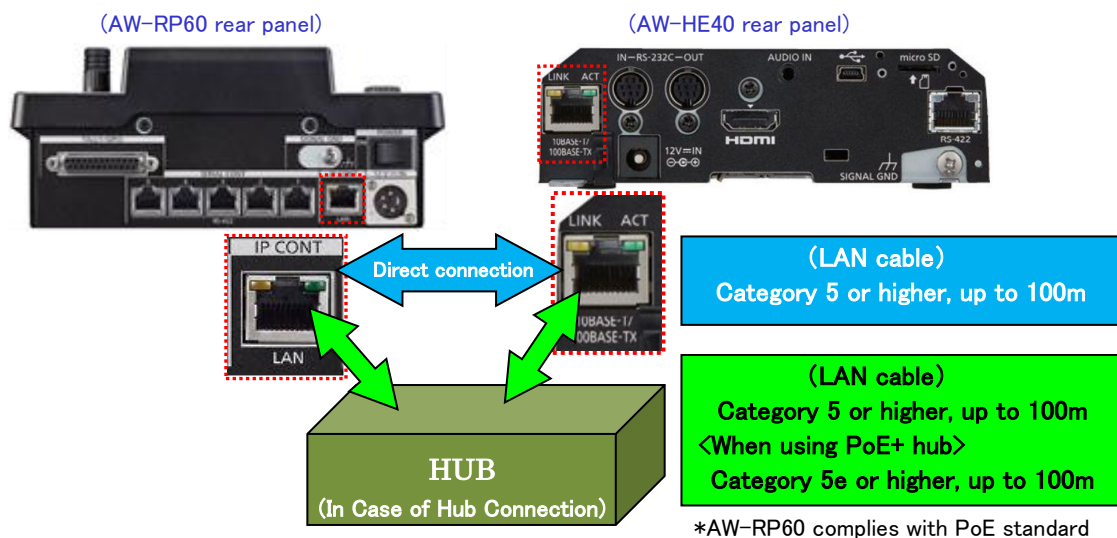
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1. Connect between Cammera and Controller with the LAN cable

1.1 IP connection

- ✓ Up to 200 remote cameras can be controlled from the AW-RP60 via a network hub.

Connect the [LAN] terminal of AW-RP60 and the [LAN] terminal of AW-HE40 series with a LAN cable.



1.2 Serial connection

- ✓ The cable can be extended up to 1000m.

Up to 5 AW-HE40 units can be controlled from AW-RP60 via serial connection.

Connect the SERIAL CONT [1]–[5] terminals of AW-RP60 and the [RS-422] terminal of AW-HE40 series with a LAN cable.



*SERIAL CONT terminals [1] to [5] correspond to the AW-RP60 connection settings “CAM1” to “CAM5”.

If you would like to control the camera serially with “CAM2” on AW-RP60, connect the LAN cable to the SERIAL CONT [2] terminal.

2. Setup the connection settings for Controller

2.1 Setup single AW-HE40 series with AW-RP60 *When assigning the camera to CAM1

- ① Press the **MENU** button. – (Fig. 1-A)
- ② Operate the **F5 dial** – (Fig. 1-B) to display the menu at **[5 SYSTEM] > [502 CONNECT SETTING]**. – (Fig. 2)
Then, operate the F5 dial so that the yellow frame – (Fig. 2) is on the first line.
*From the second line onward, you can display and change the CONNECT MODE for each camera number.
- ③ Operate the **F1 dial** and select **[CAM SEL] → [1]**.

[For IP connection]

- ④ Operate the **F2 dial** and select **[CONNECT MODE] → [LAN]**.

[For Serial connection]

- ④ Operate the **F2 dial** and select **[CONNECT MODE] → [Serial]**.

(Fig. 2: AW-RP60 LCD screen)

C001:AW-UE70				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	

★Initial values for CONNECT SETTING
 •CAM1: **Serial**
 •CAM2 to CAM200: **NON**

(Fig. 1: AW-RP60 control panel)



When the setting is executed correctly, the LED at ○ lights up
It lights up according to the camera status indicator

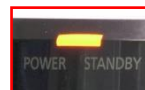


Status display lamp

(Status display lamp... Shows Camera Power Status)



Green light: Power ON
(Video is also output)



Orange light: Standby mode (factory default)
Power ON operation is required

2.2 Setup multiple AW-HE40 series with AW-RP60

When connecting multiple cameras, it's convenient to use "Auto IP Setting [RENEW]" executed from AW-RP60.

AW-RP60 first detects cameras on the same subnet. Then, it associates each detected camera with the camera number set to connection type **[NON]** and assigns camera numbers in order.

Each camera's IP address is overwritten with the destination IP address set for its camera number.

- Connection type setting: **[5 SYSTEM] > [502 CONNECT SETTING] > [CAM1-200] ⇒ [NON]**
- Destination IP address: **[5 SYSTEM] > [503 MANUAL IP SET/USER AUTH] > [CAM1-200] ⇒ [IP address]**

Example:

① IP addresses set for remote cameras A, B, and C (factory default)

Remote Camera A : 192.168.0.**10**

Remote Camera B : 192.168.0.**10**

Remote Camera C : 192.168.0.**10**

② Connection type set in AW-RP60

(([5 SYSTEM] > [502 CONNECT SETTING]))

CAM1 : NON

CAM2 : NON

CAM3 : NON

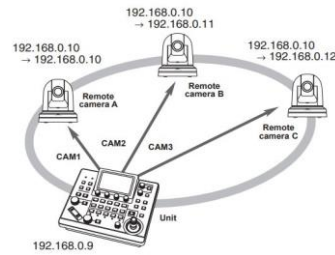
③ The destination IP address set on the AW-RP60

(([5 SYSTEM] > [503 MANUAL IP SET/USER AUTH]))

CAM1 : 192.168.0.10

CAM2 : 192.168.0.11

CAM3 : 192.168.0.12



In this state, when you execute the automatic IP setting [RENEW], the IP addresses of remote cameras A, B, and C will be rewritten in the following order and linked to camera numbers CAM1 to CAM3, respectively.

Remote Camera A : 192.168.0.**10**

Remote Camera B : 192.168.0.**11**

Remote Camera C : 192.168.0.**12**

① Press the **MENU** button. – (Fig. 3-A)

② Operate the **F5** dial – (Fig. 3-B) to display the **[5 SYSTEM] > [504 AUTO IP SET]** menu. – (Fig. 4)

③ Operate the **F1** dial – (Fig. 3-C), select **[AUTO SET] → [RENEW]**, and press the **F1** dial.

*The number of newly detected cameras **[NEW]** and the number of currently detected/managed cameras **[TOTAL]** will be displayed.

④ Operate the **F4** dial – (Fig. 3-D), select **[EXEC] → [SETTING]**, and press the **F4** dial.

*After the automatic IP setting has started and completed successfully,

“COMPLETE” is displayed on the LCD screen.

(Fig. 3: AW-RP60 control panel)



(Fig. 4: AW-RP60 LCD screen)

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

If **“SET UP ERR”** is displayed and auto IP setting does not complete successfully, please check the following:

- Check the LAN cable, such as whether it is properly connected.
- Restart the camera if the connected remote camera has been powered on for more than 20 minutes.*

*The IP address of the camera cannot be changed after 20 minutes of power-on due to settings.

After setting, the LEDs 1-3 on the <CAMERA SELECTION> section of the AW-RP60 control panel will light up according to the camera's power status.

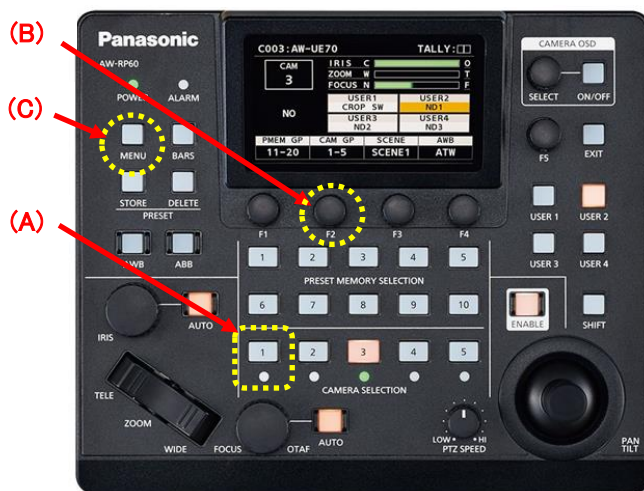
- Standby mode: the LED lights orange.
- POWER ON mode: the LED lights green.

3. Turning on the Camera

3.1 Turning on the power one camera at a time

- ① Press and hold the **[1] button** on **[CAMERA SELECTION]** – (Fig. 5-A) for about 3 seconds, and the camera name and **[ON (F2)]** and **[OFF (F3)]** buttons will be displayed on the LCD screen. – (Fig. 6)
 - ② While holding the **[1] button**, press the **F2 dial** – (Fig. 5-B) to turn on the power of the camera connected to CAM1.
- *To switch to standby mode from power ON, press the **F3 button** in the same way.

(Fig. 5: AW-RP60 control panel)



(Fig. 6: AW-RP60 LCD screen)



★This operation is valid when the status screen is displayed.
Turn off the MENU button (Fig. 5-C),
Please operate after displaying the status screen.


4.2 Turning on the power of multiple cameras

- ① Press the **MENU button** – (Fig. 5-C).
- ② Operate the **F5 dial** to display the **[5 SYSTEM] > [501 CAMERA]** menu.
- ③ Operate the **F1 dial**, select **[CAM POWER] → [ALL ON]**.

Press the **F1 dial** to turn on the power of all connected cameras.

*When you execute **[CAM POWER] → [ALL OFF]**, all connected cameras will switch to standby mode.

(CAMERA menu)

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

4.3 Turning on the camera power in conjunction with AW-RP60 power (ON)]


Operate up to step ② above to display the **[501 CAMERA]** menu.

Operate the **F2 dial**, select **[AUTO POWER] → [ON]**, and press the **F2 dial**.

*When the AW-RP60 power is ON, the cameras set to [Serial] or [LAN] connection type will turn on.

*There is no function to turn off the camera power in conjunction with AW-RP60 power (OFF).

(CAMERA menu)

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

<Troubleshooting Frequently Asked Questions>

4. How to set up the image settings when the camera is installed on the ceiling?

★To invert the output video, change the camera's menu settings.

*To invert the output video of the camera linked to [CAM1]:

- ① Press the number **1** button on <CAMERA SELECTION>. – (Fig. 7-A)
- ② Press the **CAMERA OSD: ON/OFF** button – (Fig. 7-B) (ON: lit / OFF: unlit),

The on-screen menu – (Fig. 8) will be displayed on the SDI (or HDMI) output video of AW-HE40 series.

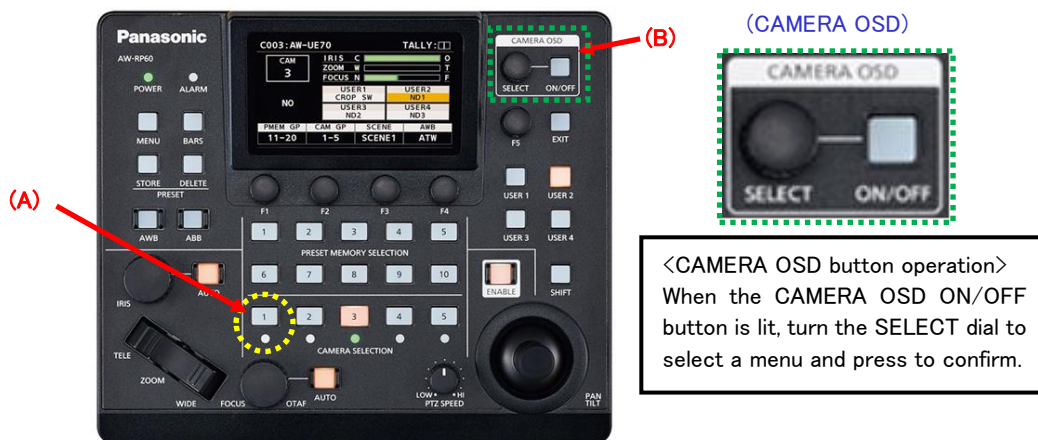
★Regarding the following button operations, from main unit Ver1.10-00-0.02 or later,
You can choose between long press and short press for ON/OFF operation.

- CAMERA OSD ON/OFF button:
MENU: **3 MAINTENANCE > 301 RP SETTING > CAM OSD BUTTON** → [SHORT/LONG]
- PRESET button:
MENU: **3 MAINTENANCE > 301 RP SETTING > PRESET BUTTON** → [SHORT/LONG]

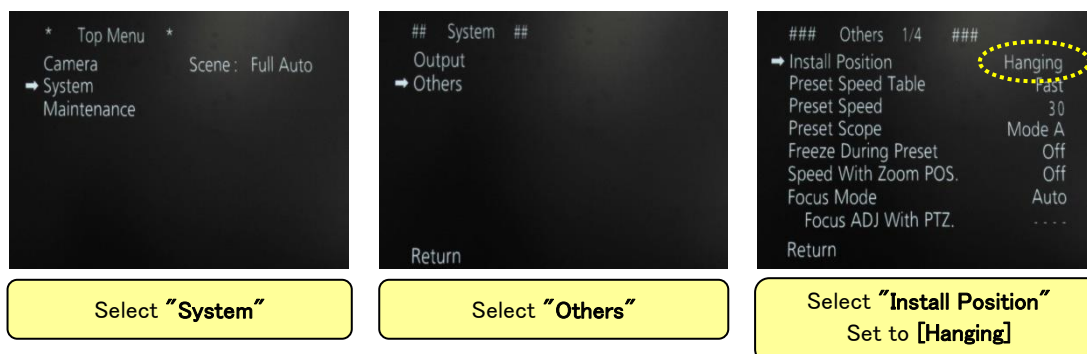
- ③ Operate the **SELECT** dial – (Fig. 7-B) and change the following camera menu settings.

Menu: **Pan/Tilt > Install Position ⇒ Select [Hanging]**

(Fig. 7: AW-RP60 control panel)



(Fig. 8: AW-HE40 OSD menu)



5. How to set up the start-up camera position when powering on?

★To start with the camera at a fixed angle, use the [POWER ON Preset Function (*1)].

(*1) This function allows you to select the initial position when powering on.

★[HOME POSITION] moves to the front-facing position. This position cannot be changed.

- ① Adjust the camera angle.
- ② Switch the camera to standby mode.

*For how to switch power modes, please refer to “3. Turning on the Camera” in this guide.

- ③ Turn the power ON again.

That's all for the setting.

If you turn off the power from the AC side or PoE side without switching to standby mode, the angle will not be memorized.

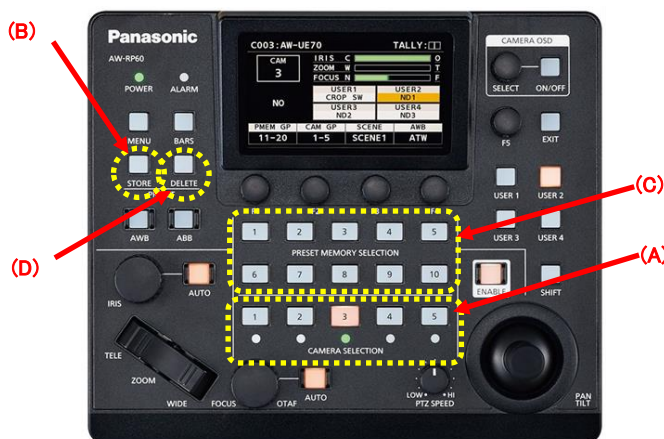
Therefore, after setting, operate the main power ON/OFF to always start with the fixed angle.

6. How to set up camera preset memories (registration and playback)?

6.1 Registering Preset Memory

- ① Press **CAMERA SELECTION buttons 1-5** to select the remote camera to operate. – (Fig. 9-A)
- ② Operate PAN/TILT and ZOOM to decide the angle. Adjust focus and iris as needed.
- ③ Press the **STORE button**. – (Fig. 9-B) *STORE button lights up
- ④ Press the desired number on the **PRESET MEMORY SELECTION button** – (Fig. 9-C) to register.
*The registered number lights up. *Registering again to an already registered number will overwrite it.
- ⑤ Press the **STORE button**. – (Fig. 9-B) *STORE button turns off

(Fig. 9: AW-RP60 control panel)



How to delete preset memory
Press the **DELETE button** (Fig. 9-D),
Then press the number you want to delete (Fig. 9-C). *The DELETE button turns off after each deletion.

6.2 Recalling Preset Memory

- ① Press **CAMERA SELECTION buttons 1-5** to select the remote camera to operate. – (Fig. 9-A)
- ② Press the registered number (**PRESET MEMORY SELECTION button** – (Fig. 9-C)), and the camera will move to the registered position.

7. How to adjust Iris settings?

★You can manually adjust the iris when shooting in scenes that are too dark (or too bright).

*To manually adjust the iris, you need to change the camera menu setting [Scene File].

<To manually adjust the iris of AW-HE40 series connected to **CAM1**>

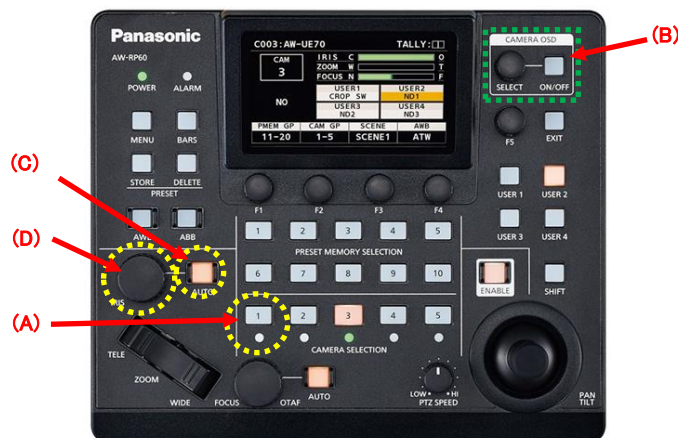
- ① Press the number **1** button on **CAMERA SELECTION**. – (Fig. 10-A)
- ② Press the **CAMERA OSD** button – (Fig. 10-B) to display the camera's on-screen menu – (Fig. 11).
- ③ Operate the **SELECT** dial to change the following camera menu settings.

MENU: Camera > Scene ⇒ Set to [Manual1-3]

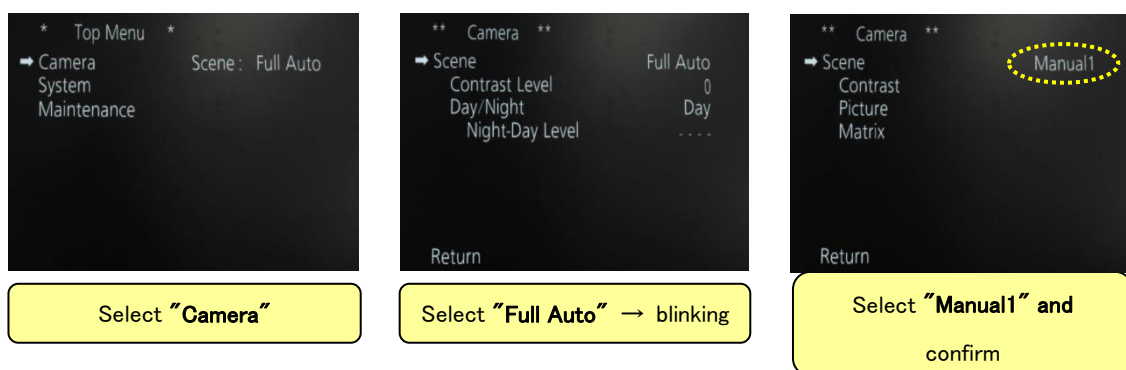
- ④ Press the **IRIS AUTO (*2)** button – (Fig. 10-C) to switch between auto/manual.

(*2) When lit, it is auto; when off, it is manual, and you can adjust with the IRIS dial – (Fig. 10-D).

(Fig. 10: AW-RP60 control panel)



(Fig. 11: AW-HE40 On-screen menu)



•IRIS dial

In auto iris mode (IRIS AUTO button lit), you can adjust the convergence level of the camera's auto iris with the IRIS dial.

8. How to adjust Focus settings?

★When using AUTO focus mode, the camera may not be able to focus properly depending on the subject.

In such cases, please change the focus mode to manual and adjust the focus yourself..

Examples of scenes where focusing is difficult:

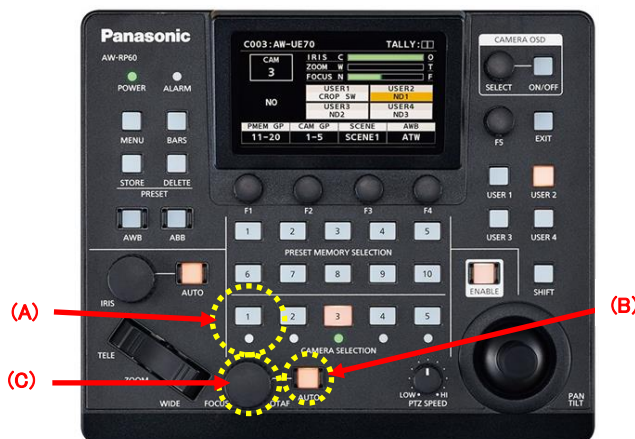
- When there are sparkling objects around
- When shooting fast-moving objects
- When shooting objects with little contrast
- When shooting distant and nearby objects simultaneously
- When shooting through dirty glass
- When shooting in dark places

<How to manually adjust the focus of AW-HE40 connected to **CAM1**>

- ① Press the number **1** button on **CAMERA SELECTION**. – (Fig. 12-A)
- ② Press the **FOCUS AUTO (*3)** button – (Fig. 12-B) to switch between auto/manual.

(*3) When lit, it is auto; when off, it is manual, and you can adjust with the **FOCUS dial** – (Fig. 12-C).

(Fig. 12: AW-RP60 control panel)



<FOCUS dial>

From main unit **Ver1.10-00-0.05**, a setting menu to assign the operation speed of the FOCUS dial has been added.
(Settings)

**MENU > FUNCTION > PTZ INFP1 >
FOCUS SPEED → “1”-“6”**

* The focus moves the furthest when set to “6”

★When Focus Mode is [**Manual**], you can change the “**Focus ADJ With PTZ (*4)**” setting.

(*4) “**Focus ADJ With PTZ**” is a function that corrects focus deviation during pan, tilt, and zoom operations.

If you would like to operate focus completely manually, set this to [**Off**]. *Default setting is [**Off**]

MENU: **System > Others > Other 1/4 > Focus ADJ With PTZ ⇒ [Off]**

(AW-HE70 OSD menu)

