AW-UE80 Installation & Setup Guide (AW-RP60)

This guide explains the operations and settings for the AW-UE80 series with the AW-RP60.

Please refer to the instruction manuals for AW-UE80 and AW-RP60 for details.

[Preparation]

Firmware version for AW-RP60 **Ver. 2.40-00-0.00 or more** is required.

- Firmware Version Check

  Menu: **MENU button > [3] MAINTENANCE > [303] RP VERSION → SYSTEM VERSION**

- Firmware Download URL

  https://eww.pass.panasonic.co.jp/pro-av/support/content/download/EN/ep2main/soft/upgrp60_e.htm

<Caution>

The AW-UE80 comes with a lens cap and pan stopper attached.

When turning on the power, be sure to remove the lens cap and pan stopper.

If you turn on the power with the lens cap and pan stopper still attached, the status indicator lamp on the front will light up red, and the camera will not operate. In this case, after removing the lens cap and pan stopper, you must clear the error display, please turn the power on again.

(Lens Cap)

(Pan Stopper)
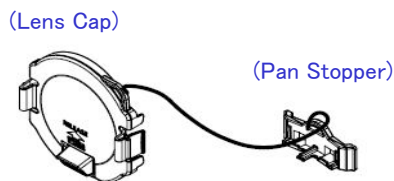
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1. Register the initial account settings for AW-UE80

When connecting AW-UE80 to a controller such as AW-RP60 via IP, it is necessary to register an initial account setting (user, password). If the initial account is not registered, you cannot control the camera via IP from controllers such as AW-RP60.

*For serial connection, control is possible even if the initial account is not registered.

*A Personal Computer(PC) is required to register the initial account.

(AW-UE80 Initial Account Registration Screen)

■Setup the network settings for AW-UE80 and PC

・AW-UE80 has an initial IP address (192.168.0.10) and subnet mask (255.255.255.0).

　Set the PC's IP address to one that does not overlap with the AW-UE40/UE50's IP address (e.g., 192.168.0.100),

　　and set the subnet mask to the same as AW-UE40/UE50 (255.255.255.0).

・Start the PC's web browser, enter the AW-UE40/UE50's IP address in the browser's address box,

　and press [Enter] to display the initial account screen.

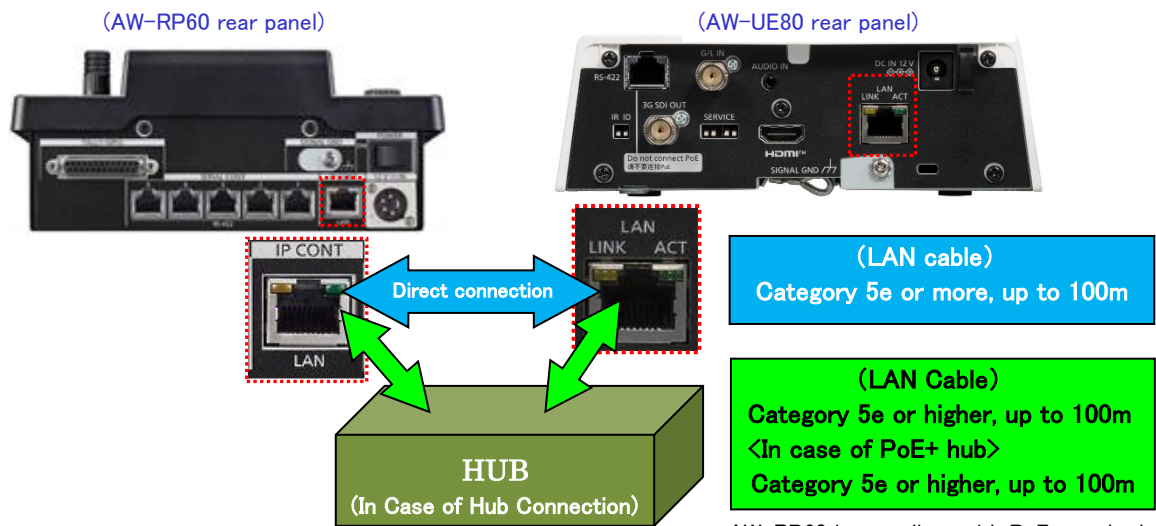・LAN cable: Category 5e or higher, within 100m (connection via hub or direct connection is possible)

*For required PC environment and details on initial account registration, please refer to the instruction manual

<Quick Guide>.

2. Connect between Camera and Controller with the LAN cable

2.1 IP Connection

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

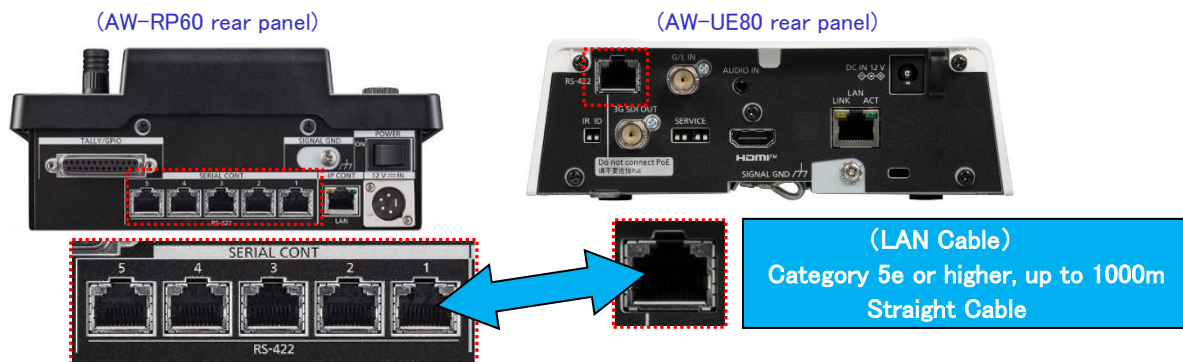Connect the [LAN] terminal of AW-RP60 and the [LAN] terminal of AW-UE80 with a LAN cable.

(AW-RP60 rear panel)　　　　　　　　　　(AW-UE80 rear panel)

Direct connection

HUB
(In Case of Hub Connection)

(LAN cable)
Category 5e or more, up to 100m

(LAN Cable)
Category 5e or higher, up to 100m
<In case of PoE+ hub>
Category 5e or higher, up to 100m

＊AW-RP60 is compliant with PoE standard

2.2 Serial Connection

✓ The cable can be extended up to 1000m.

✓ Up to 5 AW-UE80 cameras 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-UE80 with a LAN cable.

(AW-RP60 rear panel)　　　　　　　　　　(AW-UE80 rear panel)

(LAN Cable)
Category 5e or higher, up to 1000m
Straight Cable

※SERIAL CONT [1]-[5] terminals correspond to AW-RP60 connection settings "CAM1"-"CAM5".

If you would like to control the camera via serial on "CAM2" of AW-RP60, connect the LAN cable to the SERIAL CONT [2] terminal.

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3. Setup the connection settings for Controller

3.1 Setup single AW-UE40/UE50 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 is on the first line. - (Fig. 2)

※From the second line onward, you can display and change the CONNECT MODE for each camera number.

③ Operate the F1 dial to select **[CAM SEL] → [1]**.
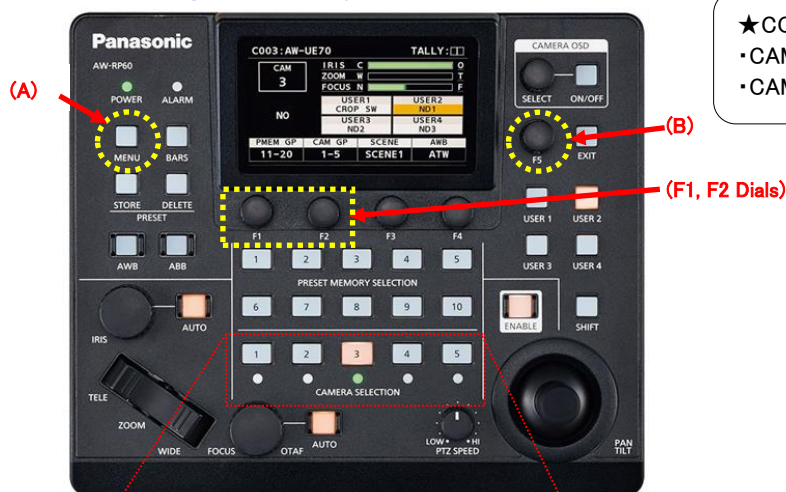
[For IP Connection]

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

[For Serial Connection]

④ Operate the **F2 dial** to 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

★CONNECT SETTING(Factory default)
・CAM1: **Serial**
・CAM2 to CAM200: **NON**

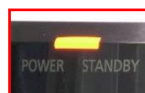(Fig. 1: AW-R60 Operation Panel)

(A)

(B)

(F1, F2 Dials)

If the settings are executed correctly, the LED at section ○
will light up according to the camera's status display lamp.

(Status display Lamp … Shows the camera's power status)
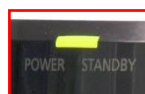
Green light … Power ON
(Video output is also available)

Orange light … Standby mode
Power   ON   operation   is

Status display Lamp

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3.2 Setup multiple AW-UE80 cameras with AW-RP60

When connecting multiple cameras, usually use "Auto IP Setting [RENEW]" executed from AW-RP60.

AW-RP60 first detects cameras on the same subnet. Then, it associates the detected cameras with camera numbers

set to [NON] and assigns camera numbers in order. Then, the IP address of each camera is rewritten to the destination

IP address set for each camera number on this unit.

・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:

①IP 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**

②Connection type set in AW-RP60
　([5 SYSTEM] > [502 CONNECT SETTING])
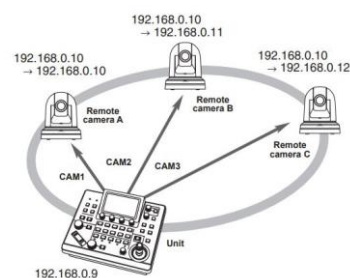
CAM1 ： NON
CAM2 ： NON
CAM3 ： NON

③The 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]

　are 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 Operation Panel)

(Fig. 4: AW-RP60 LCD Screen)

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.

4. Turning on the camera

4.1 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 Operation Panel)
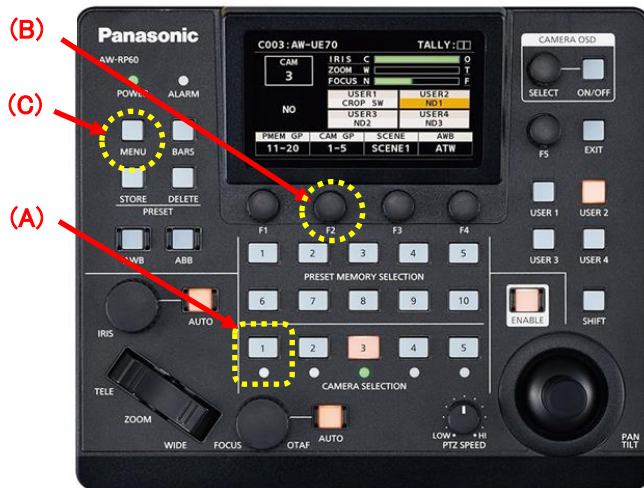
(Fig. 6: AW-RP60 LCD Screen)

★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)

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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]**,

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	AUTO POWER	CAM LOCK	
NON	ON	—	

<Troubleshooting Frequently Asked Questions>

5. 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.

> ★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)

(B)

(CAMERA OSD)

(A)

<CAMERA OSD button operation>
When the CAMERA OSD ON/OFF button is lit, turn the SELECT dial to select a menu and press to confirm.

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(Fig. 8: AW-UE80 OSD Menu)

```
* Top Menu *

Camera
System
Output
→Pan/Tilt
Preset
Maintenance
```

```
## Pan/Tilt ##

→Install Position        Desktop
 P/T Speed Mode     Fast1(90deg/s)
 Speed With Zoom Position     Off
 Focus Adjust With PTZ.       Off
 Privacy Mode                 Off
 Power On Position        Standby
  Preset Number             001


 Return
```
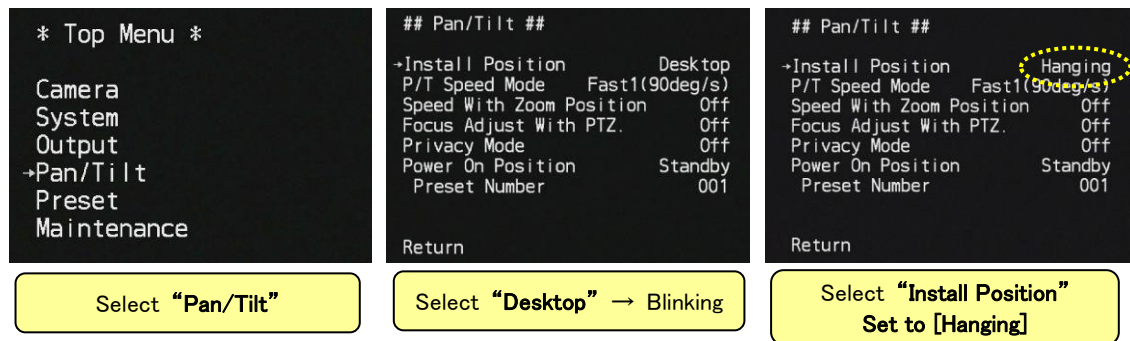
```
## Pan/Tilt ##

→Install Position        Hanging
 P/T Speed Mode     Fast1(90deg/s)
 Speed With Zoom Position     Off
 Focus Adjust With PTZ.       Off
 Privacy Mode                 Off
 Power On Position        Standby
  Preset Number             001


 Return
```

| Select "Pan/Tilt" | Select "Desktop" → Blinking | Select "Install Position" Set to [Hanging] |

6. 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 Position function (*1)].

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

Change the [Power On Position] setting in the camera's menu - (Fig. 9).

Menu: Pan/Tilt > Power On Position ⇒ [Standby, Home, Preset] *Factory default: [Standby]

Standby	Move to the Pan/Tilt/Zoom positions they were in the last time the camera was switched to Standby mode.
Home	Pan/Tilt move to their home positions (front) and Zoom goes to the Wide end.
Preset	Preset playback is performed at the preset position specified with [Preset Number].

*When [USB Auto Standby] is set to [On], [Standby] is fixed and "---" is displayed.

*If [Preset] is set, the preset number set in [Preset Number] will be recalled.

If an unregistered preset number is set, the camera will operate in [Standby] mode.

Menu: Pan/Tilt > Preset Number ⇒ [001-100]

*Procedure for setting the angle when starting in [Standby] mode

① Adjust the camera angle

② Switch the camera to standby mode

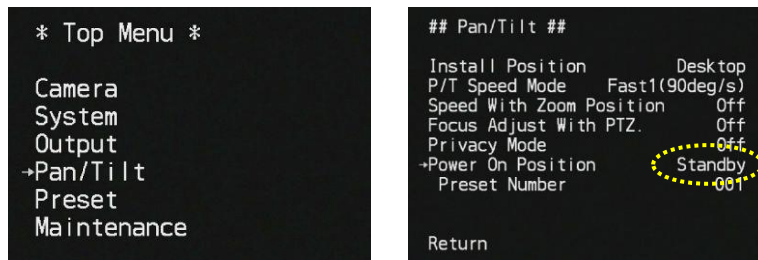*For how to switch power modes, refer to this guide: "4. Turning on the camera"

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.

(Fig. 9: AW-UE80 OSD Menu)

```
* Top Menu *

 Camera
 System
 Output
→Pan/Tilt
 Preset
 Maintenance
```

```
## Pan/Tilt ##

Install Position      Desktop
P/T Speed Mode    Fast1(90deg/s)
Speed With Zoom Position    Off
Focus Adjust With PTZ.       Off
Privacy Mode                 Off
→Power On Position        Standby
 Preset Number            001


Return
```

7. How to set up camera preset memories (registration and playback)?
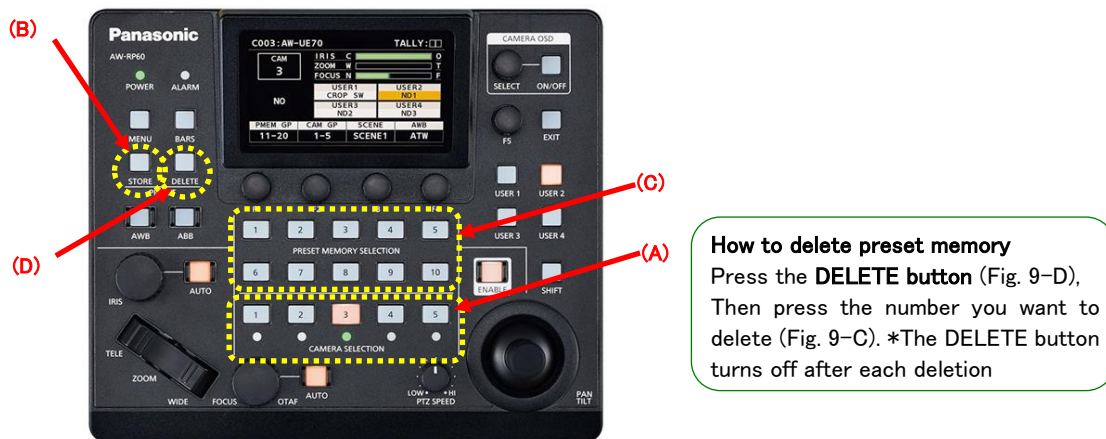
7.1 Registering Preset Memory

① Press **CAMERA SELECTION buttons 1-5** to select the remote camera to operate. - (Fig. 10-A)

② Operate PAN/TILT and ZOOM to decide the angle. Adjust focus and iris as needed.

③ Press the **STORE button**. - (Fig. 10-B) *STORE button lights up

Press the desired number on the **PRESET MEMORY SELECTION button** - (Fig. 10-C) to register.

*The registered number lights up. *Registering again to an already registered number will overwrite it.

Press the **STORE button**. - (Fig. 10-B) *STORE button turns off

(Fig. 10: 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

7.2 Recalling Preset Memory

① Press **CAMERA SELECTION buttons 1-5** to select the remote camera to operate. - (Fig. 10-A)

② Press the registered number (**PRESET MEMORY SELECTION button** - (Fig. 10-C)), and the camera will move to the registered position.

NOTE:

For detailed settings regarding preset recall, please refer to the instruction manual **[Camera Menu Items]** Preset 1/2 screen, Preset 2/2 screen pages.

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8. How to adjust Iris settings?

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

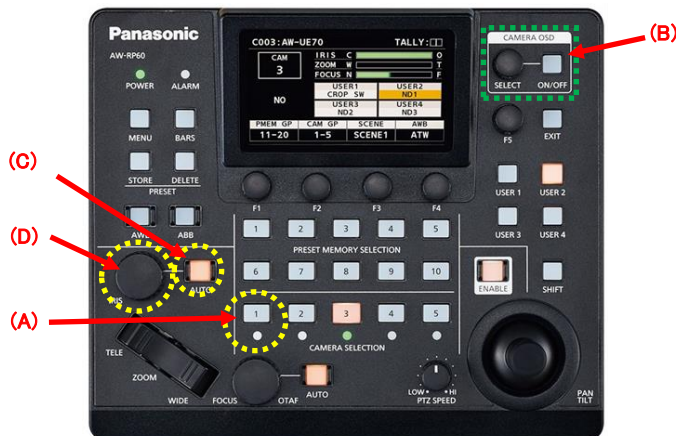*To manually adjust the iris, you need to change the camera menu setting [Scene File].

<To manually adjust the iris of AW-UE40/UE50 connected to CAM1>

①　Press the number 1 button on CAMERA SELECTION. - (Fig. 11-A)

②　Press the CAMERA OSD button - (Fig. 11-B) to display the camera's on-screen menu - (Fig. 12).

③　Operate the SELECT dial and change the following camera menu settings.

　　Menu: Camera > Scene ⇒ Set to [Scene 1-3]
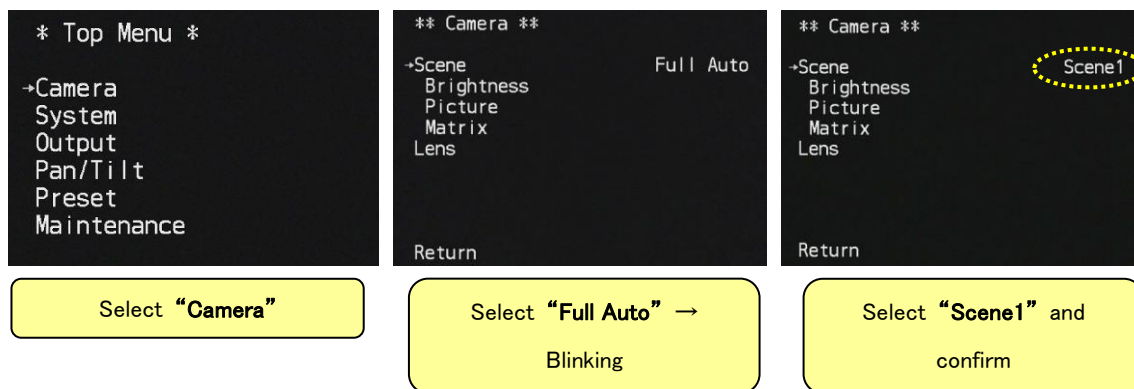
Press the IRIS AUTO (*2) button - (Fig. 11-C) to switch between auto/manual.

　　(*2) When lit, it is auto; when unlit, it is manual, and you can adjust with the IRIS dial - (Fig. 11-D).

(Fig. 11: AW-RP60 control panel)

(Fig. 12: AW-UE80 OSD Menu)

| Select "Camera" | Select "Full Auto" → Blinking | Select "Scene1" and confirm |

NOTE:

・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.

・Scene files
　AW-UE80 allows you to select from four types of scene files (Full Auto, Scene 1, Scene 2, Scene 3) according to the
　shooting situation. For details, please refer to the instruction manual [Selecting Shooting Mode (Scene File)].

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9. 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-UE40/UE50 connected to **CAM1**>

① Press the number **1 button on CAMERA SELECTION**. – (Fig. 13-A)

Press the **FOCUS AUTO (＊3) button** – (Fig. 13-B) to switch between auto/manual.

(＊3) When lit, it is auto; when unlit, it is manual, and you can adjust with the **FOCUS dial** – (Fig. 13-C).

(Fig. 13: 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"
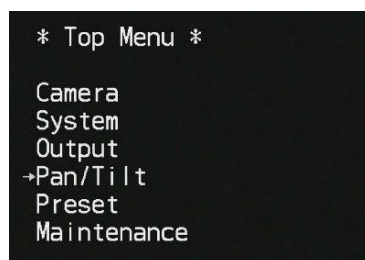＊ The focus moves the furthest when set to "6"

★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.
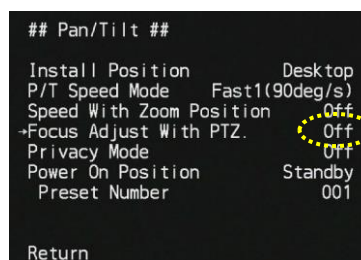
If you want to operate focus completely manually, set this to **[Off]**. ＊Default setting: [Off]

Menu: Pan/Tilt > Focus ADJ With PTZ ⇒ [Off] – (Fig. 14)

(Fig. 14: AW-UE80 OSD menu)

Select **"Pan/Tilt"**

Select **"Focus ADJ With PTZ"**
Set to [Off]

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