Integrated Software Operation Manual

（Image Adjust Pro Function）

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Notes in This Manual

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About the Descriptions in This Manual

・Illustrations and screen displays in this manual may differ from the actual product.

・In this manual, a personal computer is referred to as a "PC."

・In this manual, a remote operation panel is referred to as an "ROP."

・"This software" refers to the Media Production Suite software.

・"This function" refers to the Image Adjust Pro function.

About the Image Adjust Pro Function

Function Overview

The Image Adjust Pro function is a paid plugin for the Media Production Suite software that provides remote control capabilities for our studio cameras and PTZ cameras.

It allows information for multiple cameras to be displayed on the screen in either a list format or a remote operation panel (hereinafter referred to as "ROP") format, enabling users to check camera status and perform operations such as image quality adjustments.

About License

The Image Adjust Pro function is a paid plugin.

A 30-day free trial period is available, during which the function can be used free of charge for up to 30 days from the start of the trial. To continue using the function after the trial period ends, it is necessary to purchase a paid license (key code: AW-SF600) and complete activation. For details, refer to [About the Paid License](#) in this manual.

Operational Requirements

The PC requirements necessary to operate this function and the cameras supported by this function are as follows.

■ Installation PC

■ Client (Browser Device)

    The requirements for the installation PC and client (browser device) are the same as those for the basic functions of Media Production Suite (base software).

    For details, refer to "Operational Requirements" in the operation manual for the basic elements (Common).

■ Supported Cameras / CCU

    Studio Cameras / CCU (*)

        Studio Cameras

            AK-UCX100

            AK-UC4000

            AK-UC4000B

            AK-UC3300

        CCU

            AK-UCU700

            AK-UCU600

    Multi-Purpose Cameras (*)

      AK-UBX100

    PTZ Cameras

      AW-UE160

      AW-UE150A

    * Notes on Using Studio Cameras / CCU and Multi-Purpose Cameras

      ・Studio cameras can be used either as a standalone camera or via a CCU; however, the display and operation of some items may differ depending on the connection method.

      ・When a studio camera is connected via a CCU, do not change the camera connected to the CCU while this function is in operation. If the camera is changed, restart this application.

      ・If the CCU has multiple LAN ports, use only one LAN port (IP address) for device registration in MPS.

      ・When using a studio camera, do not change the [SHUTTER SELECT BY ROP] setting while this function is in operation. If the setting is changed, restart this application.

      ・When using the AK-UCX100 or AK-UBX100, camera user account settings must be configured in advance. For details, refer to the operation manual of each camera.

Screen Configuration
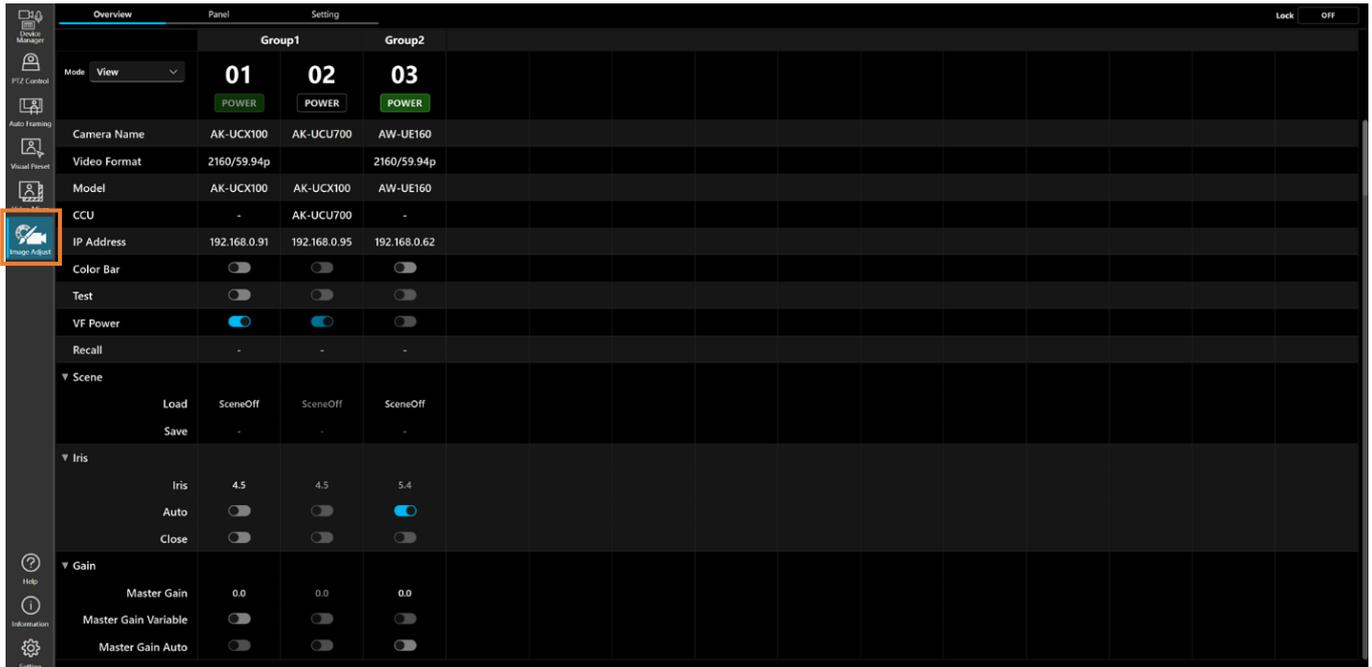
When the license for the Image Adjust Pro function is valid, the Image Adjust Pro button appears on the left side of the screen. Clicking this button opens the Image Adjust Pro screen.

The Image Adjust Pro screen consists of the following three screens.

You can switch between them using the tabs at the top of the screen.

・Overview Screen

　　This screen displays and allows operation of information for multiple cameras in a list format.

　　For details, refer to Overview Screen Operations in this manual.

・Panel Screen

　　This screen displays and allows operation of information for multiple cameras in a ROP-style panel format.

　　For details, refer to Panel Screen Operations in this manual.

・Setting Screen

　　This screen is used to configure the operation settings of this function.

　　For details, refer to the following sections in this manual:

　　Configuring Cameras Used by This Function

　　Overview Screen Display Item Settings

About the Paid License

License Activation Procedure

To use this function, you must activate the license by completing one of the following procedures.

・Starting the Trial

This procedure starts the free trial.

After completing the procedure, the function can be used free of charge during the 30-day trial period.

Up to 20 cameras can be operated during the trial period.

To continue using the function after the trial period ends, you must purchase a paid license

(Key Code: AW-SF600) and perform license activation.

・License Activation

This procedure enables the function by registering a paid license (Key Code: AW-SF600) on the license server.

Multiple paid licenses can be activated for this function.

Each license allows operation of up to 20 cameras.

By activating additional licenses, the number of operable cameras can be increased.

For details of each procedure, refer to "Manage Paid Plugins" in the Information Function Operation Manual.

Consumption of Paid Licenses

When a camera is assigned on the Setting screen of this function (when the camera is configured to be displayed on this function's screen), one license is consumed per camera.

When a camera assignment is removed on the Setting screen, the license returns to an unused state.

<NOTE>

・The license usage status is displayed in the upper-right corner of the Setting screen as "Used Image Adjust Plugin Licenses: X / X".

The left value indicates the number of cameras currently using licenses, and the right value indicates the total number of available licenses.

License Transfer Procedure

If you wish to transfer the license to another PC, follow the procedure below.

1. On the PC where the license for this function is currently activated, perform deactivation to release the license.

2. On the destination PC, perform activation to enable the license.

For details on the deactivation procedure, refer to

"Manage Paid Plugins" → "Deactivating the License" in the Information Function Operation Manual.

Checking the License Status

You can check the license status on the Information function screen.

For details on the procedure, refer to

"Manage Paid Plugins" → "Checking the License Status" in the Information Function Operation Manual.

Function Setup Procedure

Workflow for Using the Function

The following shows the general workflow when using this function.

1. Register cameras in this software using the Device Manager function.

    For details, refer to [Registering Cameras in This Software](#) in this manual.

2. On the Setting screen of this function, configure the cameras to be used with this function.

    For details, refer to [Configuring Cameras Used by This Function](#) in this manual.

3. Operate the cameras on the Overview screen and Panel screen.

    For details, refer to [Overview Screen Operations](#) and [Panel Screen Operations](#) in this manual.

Registering Cameras in This Software

Cameras to be used with this function must be registered in advance using the Device Manager function.

For details, refer to "Device Registration" in the operation manual for the Device Manager function.

<NOTE>
・ If the license for this function is invalid, studio cameras will not be recognized by this software even if they are registered.

Configuring Cameras Used by This Function

Immediately after cameras are registered using the Device Manager function, they are not selected as cameras to be used by this function. Therefore, the cameras cannot be displayed or operated in this function at that stage.

By selecting the cameras to be used on the Setting screen of this function, the cameras can be displayed and operated within this function.

On the Setting screen, you can also configure the camera number and name used when displaying cameras in this function, as well as change the display order of the cameras.

Selecting Cameras to Use

Follow the steps below to select the cameras to be used.
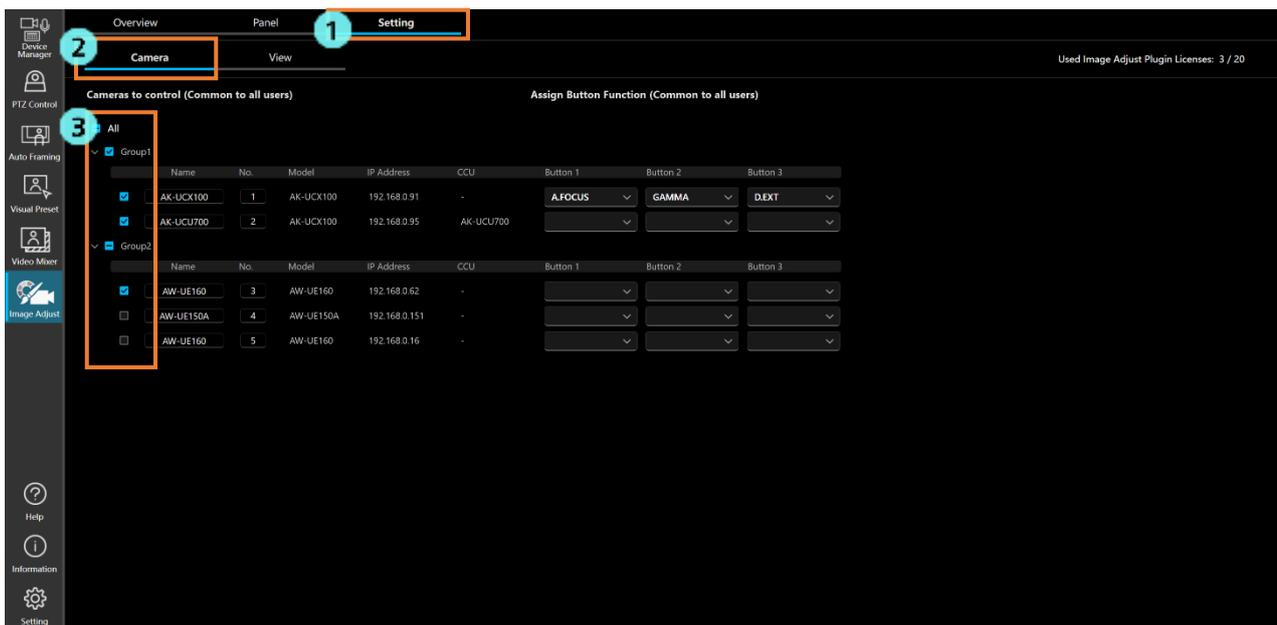
1. Click the [Setting] tab at the top of this function's screen to display the Setting screen.

2. Click the [Camera] tab.

3. In the [Cameras to control] area on the left side of the Setting screen, select the cameras to be used.

   The [Cameras to control] area displays a list of cameras registered in this software.

   Use the checkboxes at the left end of each camera entry to specify whether the camera is used with this function.

   Checkbox ON :

   The camera is displayed on this function's screen and becomes available for use.

   When the checkbox is turned ON, one license is consumed for that camera.

   Checkbox OFF :

   The camera is not displayed on this function's screen and cannot be used.

   When the checkbox is turned OFF, the license for that camera is returned to the unused state.

   The license usage status is displayed in the upper-right corner of the Setting screen as "Used Image Adjust Plugin Licenses: X / X". The left value indicates the number of cameras currently using licenses, and the right value indicates the total number of available licenses.

   If the number of licenses in use reaches the maximum, additional cameras cannot be enabled.

<NOTE>

　　・These settings are applied to all accounts in this software.

　　・If the account permission is User, only cameras that the account is authorized to access are displayed on this screen

　　　and can be used with this function.

　　For details on camera access settings, refer to "Registering Accounts" in the operation manual for the Setting

　　function.

Setting the Camera Number, Name, and Display Order

Configure the settings by following the steps below.
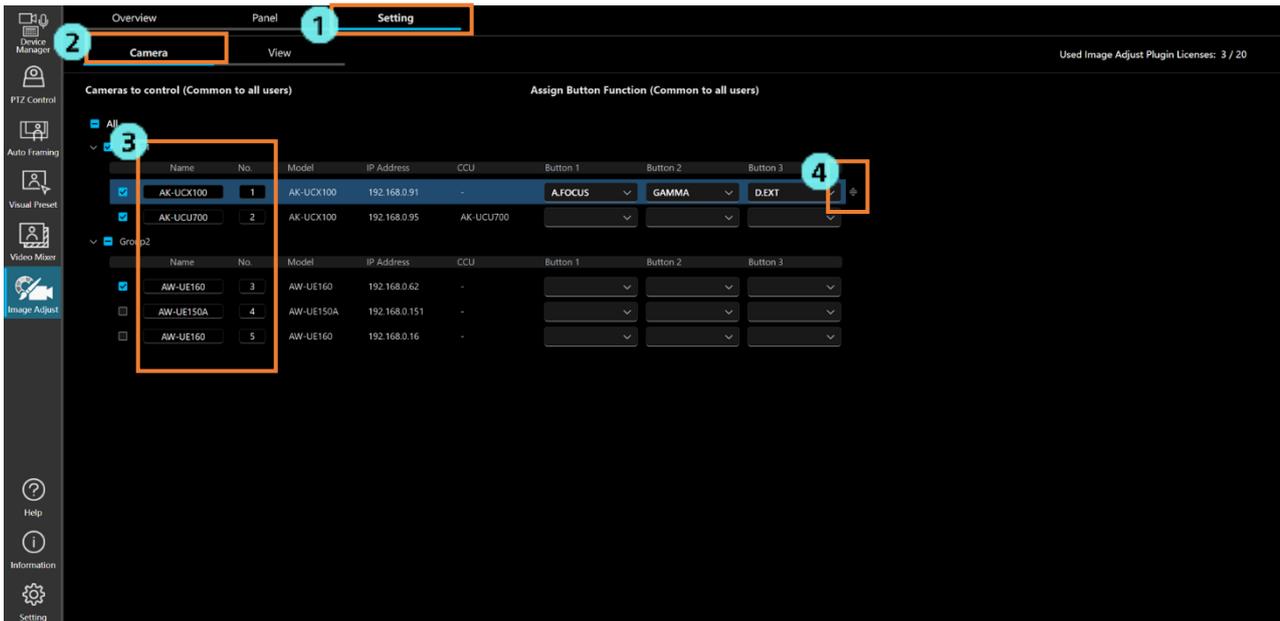
1. Click the [Setting] tab at the top of this function's screen to display the Setting screen.

2. Click the [Camera] tab.

3. In the [Cameras to control] area on the left side of the Setting screen, configure the settings for each camera.

　　　　　[Name]：You can change the name displayed for the camera on this function's screen.

　　　　　　[No.]：You can change the number displayed for the camera on this function's screen.

4. Click the up/down icons displayed at the right end of each camera row, then drag and drop them up or down to

　　change the display order of the cameras on this function's screen.
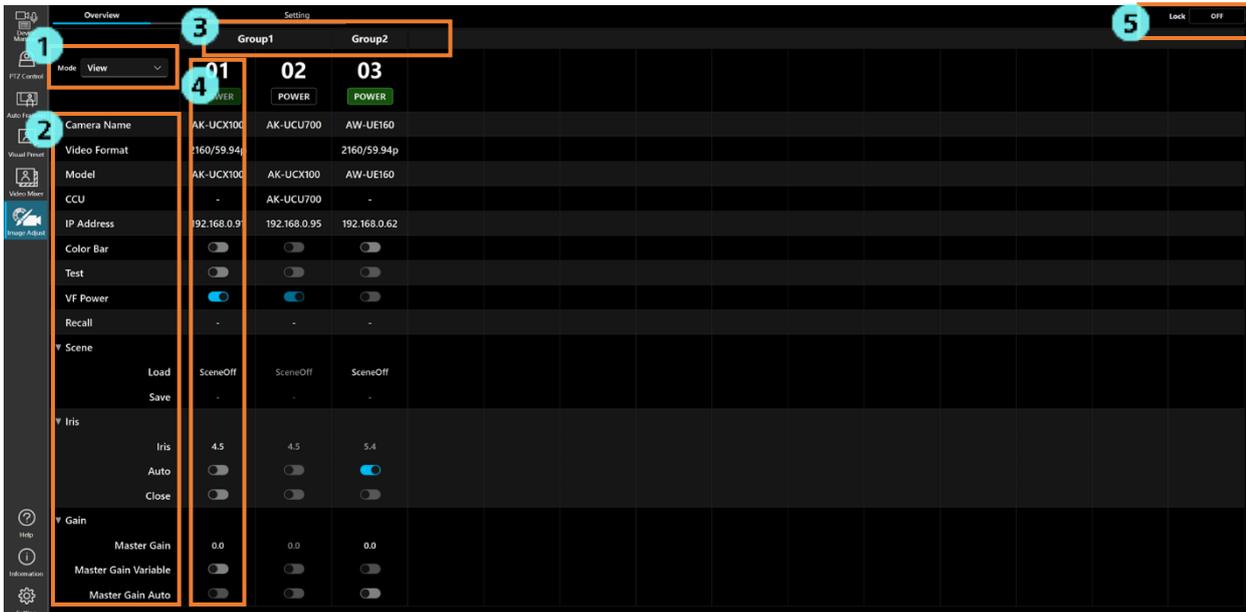

<NOTE>

　　・The above settings apply only to this function.

　　They are not reflected in the camera display of other functions such as Device Manager or PTZ Control.

Overview Screen Operations

About the Overview Screen

The Overview screen displays and allows operation of information for multiple cameras in a group-based list format.

Click the [Overview] tab at the top of this function's screen to display the Overview screen.

On the Overview screen, you can perform the following operations:

・Operate cameras (such as changing setting values and switching modes)

    For details, refer to Camera Operations on the Overview Screen

・Save camera setting values to this software

    For details, refer to Saving Camera Setting Values

・Recall setting values saved in this software and apply them to cameras

    For details, refer to Applying Saved Setting Values to Cameras

・Copy setting values between cameras

    For details, refer to Copying Setting Values Between Cameras

<NOTE>

Cameras must be registered in advance, and the cameras to be used must be configured before using this screen.

For details, refer to Function Setup Procedure.

Overview Screen Description

Entire Screen

1. Operation Mode Selection Box

> Used to select the type of operation to be performed on this screen.
>
> The available options are as follows:
>
>> View: Select this option to perform normal operations.
>>
>> Store: Select this option to save camera setting values as data in this software.
>>
>>> For details, refer to <u>Saving Camera Setting Values</u>
>>
>> Load: Select this option to recall setting values saved in this software and apply them to the cameras.
>>
>>> For details, refer to <u>Applying Saved Setting Values to Cameras</u>
>>
>> Copy: Select this option to copy setting values between cameras.
>>
>>> For details, refer to <u>Copying Setting Values Between Cameras</u>

2. Item Name Display Area

> Displays the names of each item.
>
> Some items are grouped into a parent item with multiple child items.
>
> By clicking a parent item name, you can expand or collapse the display for the entire group.
>
> You can change the visibility of each item and the display order of items.
>
> For details, refer to <u>Overview Screen Display Item Settings</u>

3. Group Name Display Area

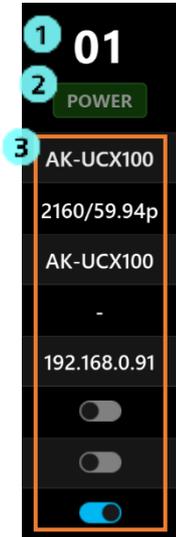> Displays the name of the group to which each camera belongs.

4. Camera Display Area

> Displays camera setting values and allows camera operations.

5. Screen Lock Button

Used to toggle the lock status of the entire screen.

For details, refer to [Locking the Screen Display](#)

Camera Display Area

1. Camera Number and Tally Status Display

Displays the camera number assigned to the camera on the Setting screen.

When the camera tally is ON, the background is displayed in the tally color.

2. Camera Power Status Display / Control

Displays the camera power status (Power ON / Standby).

Green lit: Power ON state

Green unlit: Standby state

Clicking the display area allows you to switch between Power ON and Standby.

3. Camera Setting Value Display / Control

This area is used to display and operate (change) the setting values for each item.

For details, refer to the explanations on the following pages.

Camera Operations on the Overview Screen

You can operate the camera (change setting values) in the area where the setting values of each item are displayed.
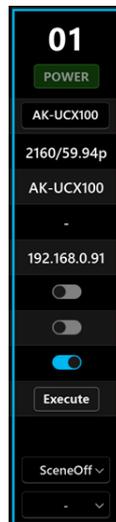
Note: Some items are display-only and cannot be operated.

When you click the display area of the camera you want to operate, the camera enters the **selected state**, and the display of each item switches to the operation mode.
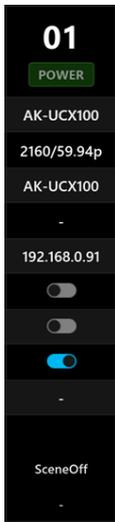
Unselected state
(Items cannot be operated)

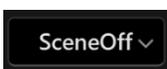Selected state
(Items can be operated)

The available operations differ depending on the item type.

・ON/OFF type (e.g., Color Bar)

The item field is displayed as an ON/OFF button.

Clicking the button toggles the ON/OFF setting.

・List selection type (e.g., Scene)

The item field is displayed in a list format.

Clicking the arrow expands the list, allowing you to select a value.

・Increment/decrement type (e.g., Gain)

Buttons for increasing/decreasing the value are displayed to the right of the setting value.

You can change the value by clicking the buttons or using the mouse wheel.

・Execution-only type (e.g., AWB)

An Execute button is displayed in the item field.

Clicking the button executes the operation.

Items Displayed / Operable on the Overview Screen

The items that can be displayed and operated on the Overview screen are as follows.

* Depending on the account permissions of this software, the items that can be operated may differ. For details, refer to

Function Restrictions by Role

* Supported items and configurable values vary depending on the camera model.

* For details of each item, also refer to the operation manuals of the camera and CCU.

Main Item	Sub Item	Description
Camera Name	-	Displays the camera name. The camera name displayed can be changed on the Setting screen of this function. For details, refer to Configuring Cameras Used by This Function.
Video Format	-	Displays the camera video format. * This item is display-only and cannot be changed.
Model	-	Displays the camera model name.
CCU	-	Displays the CCU model name.
IP Address	-	Displays the camera IP address. * This item is display-only and cannot be changed.
Color Bar	-	Displays / sets the ON/OFF status of the color bar signal. * This operates exclusively with the Test signal.
Test	-	Displays / sets the ON/OFF status of the test signal. * This operates exclusively with the Color Bar signal.
VF Power	-	Displays / sets the power status of the viewfinder.
Recall	-	Recalls the reference setting file stored on the camera.
Scene	Load	Displays the currently selected scene file. Selecting a scene file from the list switches to the selected scene file.
	Save	Saves the scene file. Selecting a scene file from the list saves the current settings to that scene file.
Iris	Iris	Displays / sets the iris value. Settings can be changed only when Auto Iris is OFF. * When the device is AK-UC4000 or AK-UC3300, iris operation is not available on the Overview screen.
	Auto	Displays / sets the ON/OFF status of Auto Iris.
	Close	Clicking the Execute button moves the iris to the Close position. Operation is possible only when Auto Iris is OFF. When the iris is at the Close position, the button is displayed in blue.
Gain	Master Gain	Displays / sets the master gain value.
	Master Gain Variable	Changes the unit used when setting the master gain value. ON: Set in 0.1 dB steps

		OFF: Set in 3 dB steps
	Master Gain Auto	Displays / sets the ON/OFF status of Master Gain Auto.
	R Gain	Displays / sets the R gain values.
	G Gain	Displays / sets the G gain values.
	B Gain	Displays / sets the B gain values.
	Super Gain	Displays / sets the super gain value.
Pedestal	Master Pedestal	Displays / sets the master pedestal value.
	R Pedestal	Displays / sets the R pedestal value.
	G Pedestal	Displays / sets the G pedestal value.
	B Pedestal	Displays / sets the B pedestal value.
Flare	ON/OFF	Displays / sets the ON/OFF status of flare.
	Master Flare	Displays / sets the master flare value.
	R Flare	Displays / sets the R flare values.
	G Flare	Displays / sets the G flare values.
	B Flare	Displays / sets the B flare values.
HD Detail	ON/OFF	Displays / sets the ON/OFF status of HD detail.
	Detail	Displays / sets the HD detail value.
UHD Detail	ON/OFF	Displays / sets the ON/OFF status of UHD detail.
	Detail	Displays / sets the UHD detail value.
HD SKIN	ON/OFF	Displays / sets the ON/OFF status of HD skin detail.
UHD SKIN	ON/OFF	Displays / sets the ON/OFF status of UHD skin detail.
Shutter	ON/OFF	Displays / sets the ON/OFF status of the shutter.
	Shutter Step	Displays / sets the step shutter value. Can be set only when the shutter is ON and the Type is Step.
	Shutter Sync	Displays / sets the synchro shutter value. Can be set only when the shutter is ON and the Type is Sync.
	Type	Displays / sets the shutter type. Can be set only when the shutter is ON. Step: Step shutter Sync: Synchro shutter Auto: Auto shutter
ND Filter	Value	Displays / sets the ND filter value.
	HEAD	Selects whether filter control is performed on the camera side or by this software. ON: Filter control is performed by the camera OFF: Filter control is performed by this software
CC Filter	-	Displays / sets the CC filter value.
ECC	-	Displays / sets the color temperature value.
DRS	-	Displays / sets the ON/OFF status of DRS.
W SHADING	-	Displays / sets the ON/OFF status of white shading. Not supported when the device is a PTZ camera.

B SHADING	-	Displays / sets the ON/OFF status of black shading. Not supported when the device is a PTZ camera.
Gamma	ON/OFF	Displays / sets the ON/OFF status of gamma. Not supported when the device is AW-UE150A.
	Master Gamma	Displays / sets the master gamma value. Can be set only when gamma is ON.
	R Gamma	Displays / sets the R gamma value. Can be set only when gamma is ON.
	B Gamma	Displays / sets the B gamma value. Can be set only when gamma is ON.
Black Gamma	ON/OFF	Displays / sets the ON/OFF status of black gamma. Not supported when the device is AW-UE150A.
	Master Black Gamma	Displays / sets the master black gamma value. Can be set only when black gamma is ON.
Knee	ON/OFF	Displays / sets the ON/OFF status of knee.
	Mode	Displays / sets the knee mode.
	Slope	Displays / sets the knee slope values. Can be set only when knee is ON.
	Point	Displays / sets the knee point values. Can be set only when knee is ON.
White Clip	ON/OFF	Displays / sets the ON/OFF status of white clip.
	Level	Displays / sets the white clip level. Can be set only when white clip is ON.
Matrix	ON/OFF	Displays / sets the ON/OFF status of the matrix.
Linear Matrix	ON/OFF	Displays / sets the ON/OFF status of the linear matrix. Not supported when the device is AW-UE150A.
	R-G P R-G N R-B P R-B N B-G P B-G N B-R P B-R N G-R P G-R N G-B P G-B N R-G R-B B-G B-R	Displays / sets each value. Can be set only when both Matrix and Linear Matrix are ON.

	G-R	
	G-B	
Char	ON/OFF	Displays / sets the ON/OFF status of color correction. Not supported when the device is AW-UE150A.
Color Correction	R Phase	Displays / sets each value.
	R Sat	
	R-Ye Phase	
	R-Ye Sat	
	Ye Phase	
	Ye Sat	
	Ye-G Phase	
	Ye-G Sat	
	G Phase	
	G Sat	
	G-Cy Phase	
	G-Cy Sat	
	Cy Phase	
	Cy Sat	
	Cy-B Phase	
	Cy-B Sat	
	B Phase	
	B Sat	
	B-Mg Phase	
	B-Mg Sat	
	Mg Phase	
	Mg Sat	
	Mg-R Phase	
	Mg-R Sat	
	Mg-R-R Phase	
	Mg-R-R Sat	
	R-R-Ye Phase	
	R-R-Ye Sat	
	R-Ye-Ye Phase	
	R-Ye-Ye Sat	
	Ye-Ye-G Phase	
	Ye-Ye-G Sat	
Color Temperature	-	Displays / sets the color temperature.
AWB	-	Executes auto white balance adjustment.
ABB	-	Executes auto black balance adjustment.
Auto Setup	-	Executes auto setup.
Char	-	Displays / sets the character display status on the monitor.
Call	-	When operated from this GUI, turns the call switch of the camera

		and CCU ON/OFF. When a call is made from the camera side, notification is provided by button lighting and a call sound. When the screen is displayed on an iPad, the call sound will not play until some tap operation is performed after displaying this function screen.
Alarm	Cam Fan	Displays a warning when an abnormality is detected in the camera fan operation.
	CCU	Displays a warning when an abnormality is detected in the CCU.
	CCU Fan	Displays a warning when an abnormality is detected in the CCU fan operation.
	Optical	Displays a warning when there is a problem with the optical transmission reception level.
Optical	CAM RCV	Displays the optical reception level on the camera side.
	CCU RCV	Displays the optical reception level on the CCU side.
Extender	-	Displays the lens extender magnification.
D. Extender	ON/OFF	Displays / sets the ON/OFF status of the digital extender.
	Mode	Displays / sets the digital extender mode value.
V-Log	ON/OFF	Displays / sets the ON/OFF status of V-Log.
	Paint	Displays / sets the V-Log paint value.
HDR	-	Displays / sets the HDR value.
GAMUT	-	Displays / sets the GAMUT value.

Overview Screen Display Item Settings

You can select the items to be displayed on the Overview screen and change their display order.

<NOTE>
・These settings are saved separately for each account of this software.

Configure the settings by following the steps below:
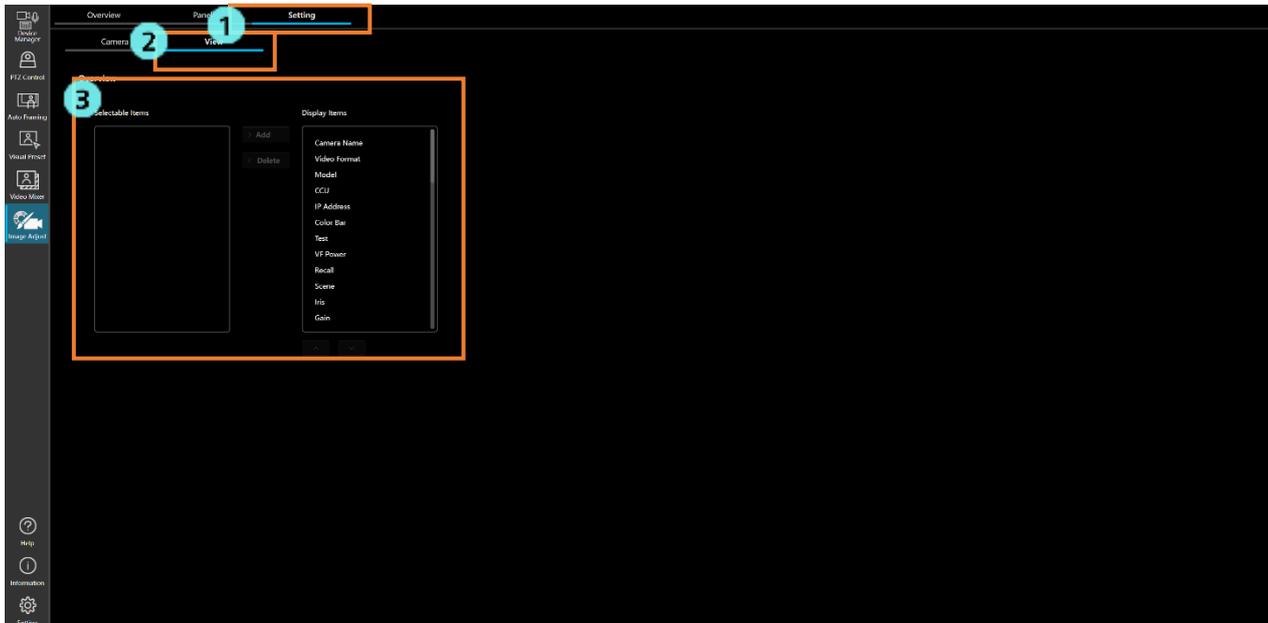
1. Click the [Setting] tab at the top of this function's screen to display the Setting screen.

2. Click the [View] tab.

3. Configure the settings in the [Overview] section.

   To change an item from hidden to displayed, select the item in [Selectable Items] and click the [> Add] button. The item moves to [Display Items] and becomes visible.

   To change an item from displayed to hidden, select the item in [Display Items] and click the [< Delete] button. The item moves to [Selectable Items] and becomes hidden.

   You can also change the display order of items by selecting an item in [Display Items] and clicking the up or down buttons below [Display Items].

Saving Camera Setting Values

You can save camera setting values to the internal data of this software.

Up to 40 sets of settings can be saved.

   <NOTE>

      ・In this software's screens, the save destination is referred to as a "slot."

       In this manual, the save destination is also referred to as a "slot" hereafter.

Saving is performed using the following procedure:
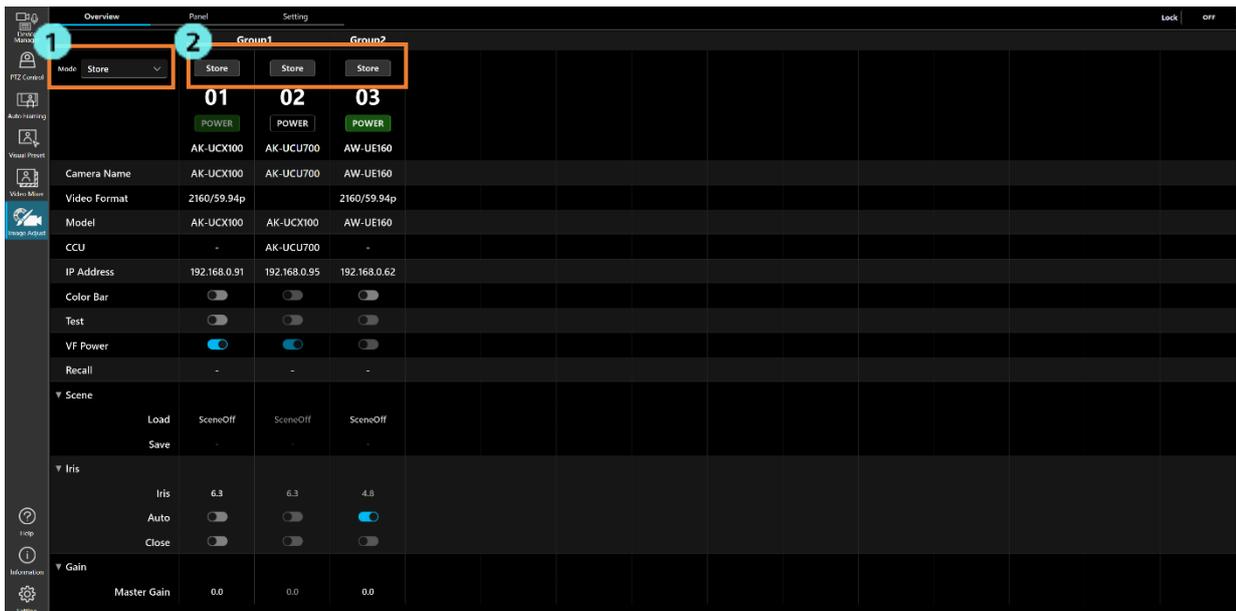
1. Click the operation mode selection box in the upper-left corner of the screen and select [Store].

   After selection, the screen switches to the save mode.

2. Click the [Store] button at the top of the display area of the camera whose settings you want to save.

   The slot selection dialog is displayed.
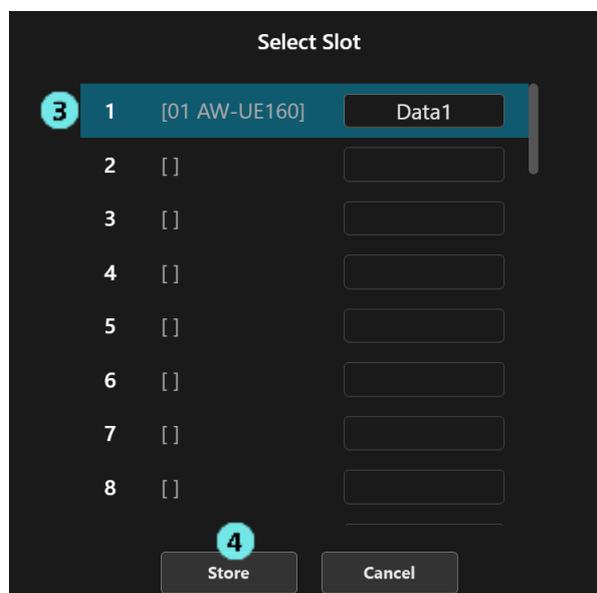
3. Select the destination slot.

   If necessary, you can assign an arbitrary name to the slot (up to 32 single-byte characters).

4. Click the Store button to save all camera setting values to the selected slot.

Applying Saved Setting Values to Cameras

Saved setting values can be recalled at any time and applied to cameras of the same model.

The settings can be applied to multiple cameras simultaneously.

To recall and apply saved settings, follow the steps below:
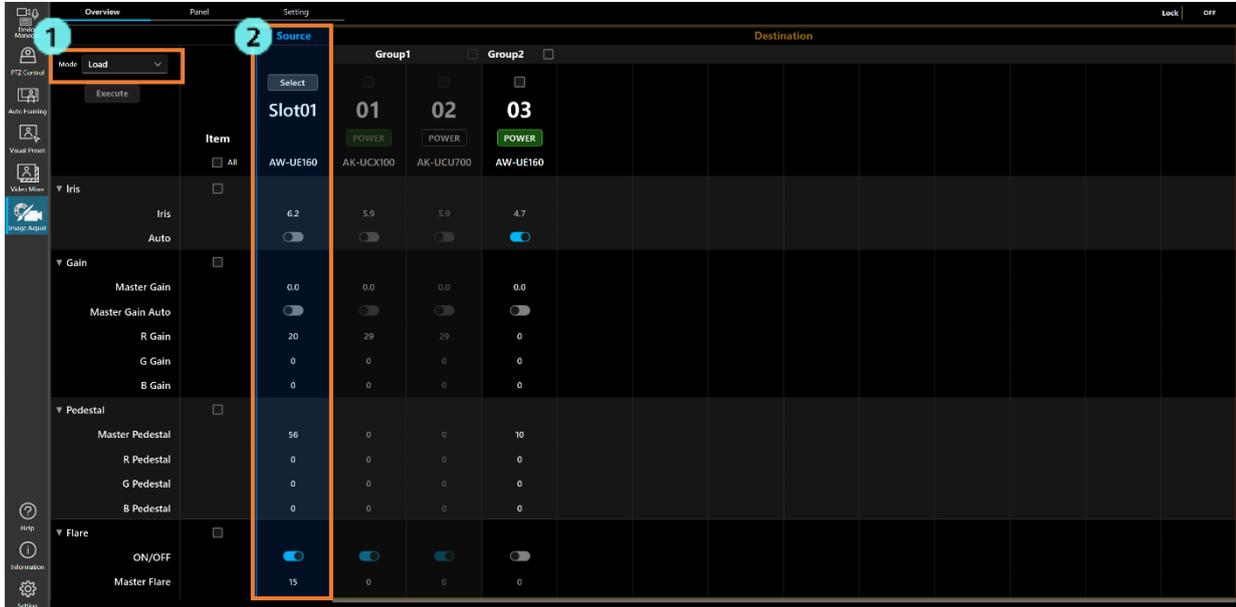
1. Click the operation mode selection box in the upper-left corner of the screen and select [Load].

   After selection, the screen switches to the recall mode.

2. Click the [Select] button in the Source area.

   The slot selection dialog is displayed.
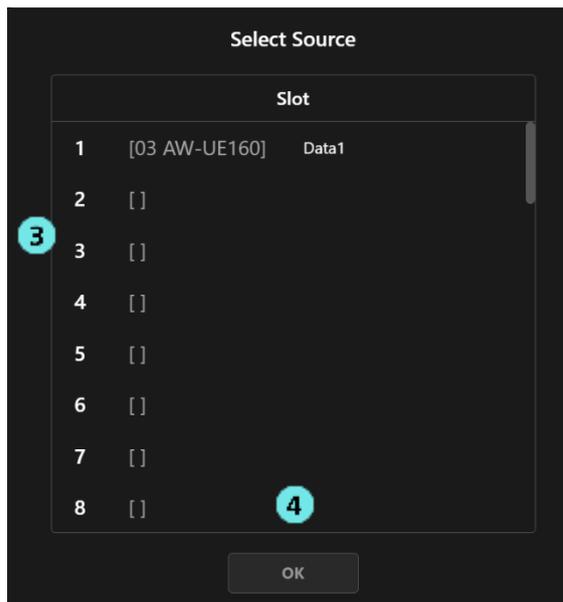
3. Select the slot to be recalled.

4. Click the OK button.

   The setting values saved in the selected slot are recalled and displayed in the Source area.

5. In the Destination area, select the cameras to which the recalled setting values will be applied by using the checkboxes.
   Only cameras of the same model as the camera used to save the settings can be selected.

6. In the Item area, select the items to be applied using the checkboxes.

7. Click the Execute button to apply the recalled setting values to the selected cameras.

<NOTE>
  ・ When the [SHUTTER SELECT BY ROP] setting of the Destination camera is set to SELECT, shutter values are applied only if the shutter values of the Source camera exist in POSITION1 to POSITION8 of the Destination camera.
  ・ Depending on the camera and the attached lens, the Iris values of the Source and Destination cameras may not match exactly.

Copying Setting Values Between Cameras

Setting values can be copied between cameras of the same model.

It is also possible to copy settings to multiple cameras at the same time.

To copy settings, follow the procedure below:
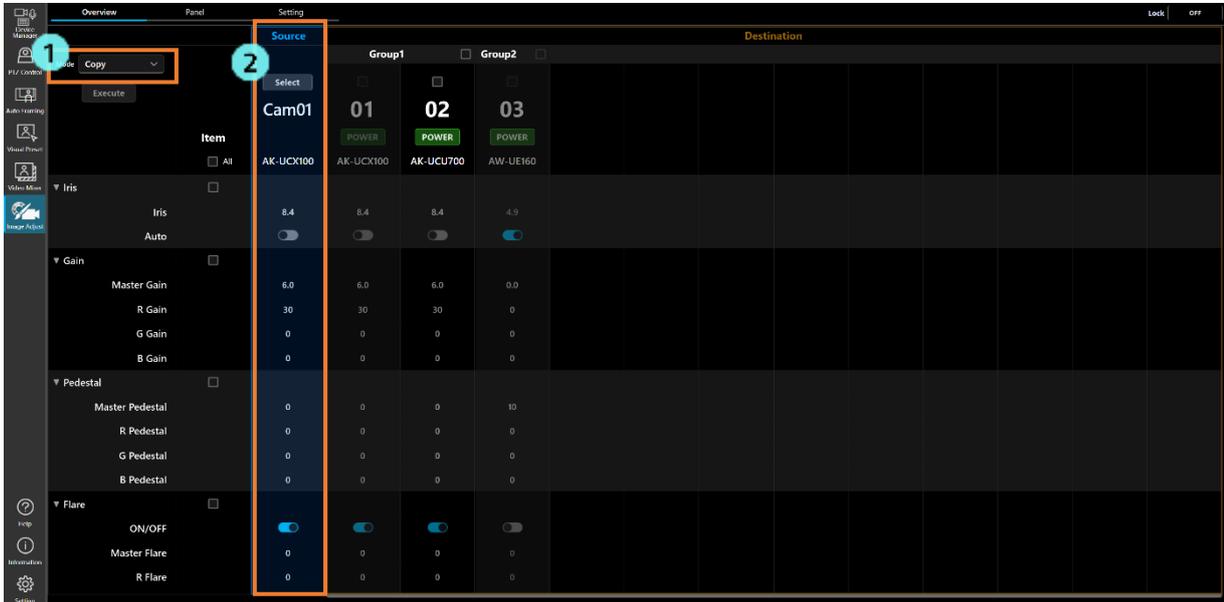
1. Click the operation mode selection box in the upper-left corner of the screen and select [Copy].

   After selection, the screen switches to copy mode.

2. Click the [Select] button in the Source area.

   The source camera selection dialog is displayed.
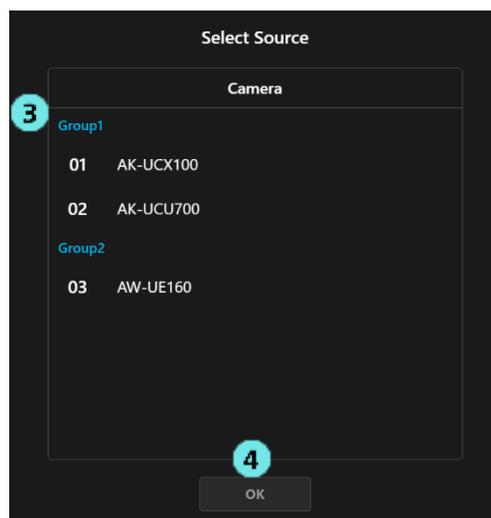
3. Select the source camera.

4. Click the OK button.

   The setting values of the source camera are displayed in the Source area.

5. In the Destination area, select the destination cameras using the checkboxes.

　Only cameras of the same model as the source camera can be selected.

6. In the Item area, select the items to be copied using the checkboxes.

7. Click the Execute button to copy the settings.

<NOTE>

・ When the [SHUTTER SELECT BY ROP] setting of the Destination camera is set to SELECT, shutter values are applied only if the shutter values of the Source camera exist in POSITION1 to POSITION8 of the Destination camera.

・ Depending on the camera and the attached lens, the Iris values of the Source and Destination cameras may not match exactly.

Panel Screen Operations

About the Panel Screen

The Panel screen displays information and allows operation for multiple cameras in a ROP-style panel format.

Clicking the [Panel] tab at the top of this function's screen displays the Panel screen.

<NOTE>
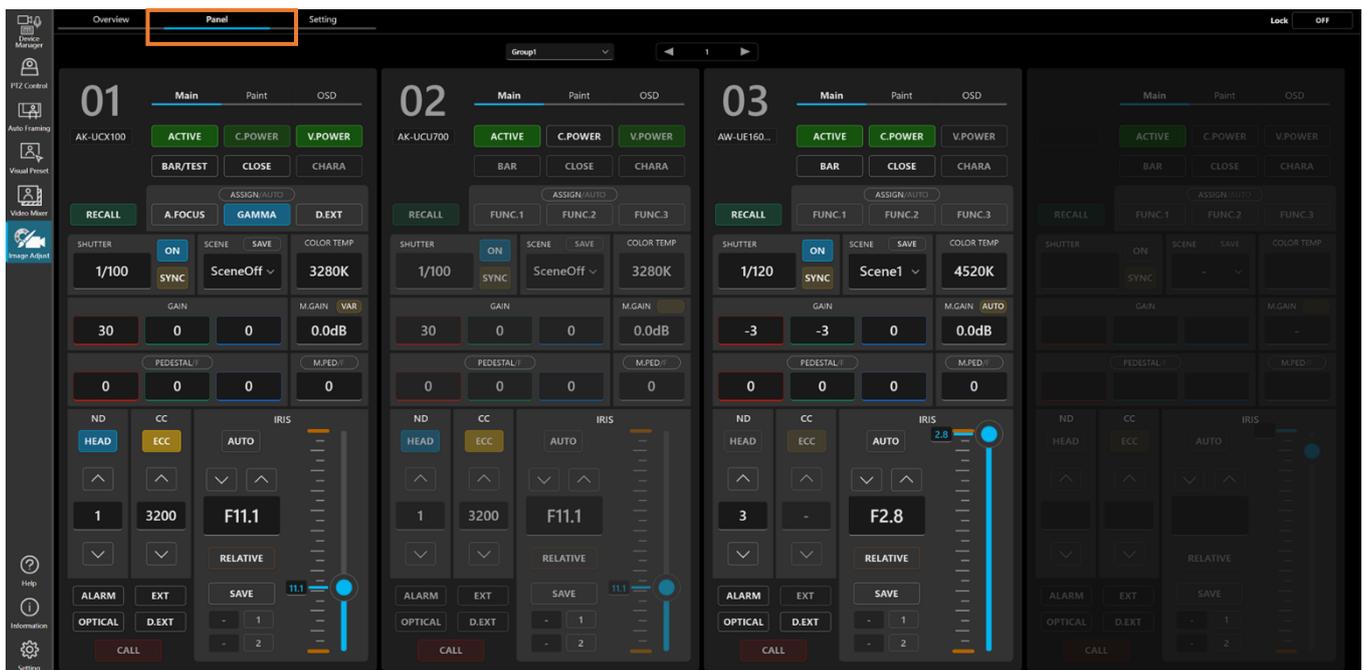
Cameras must be registered in advance, and the cameras to be used must be configured beforehand.

For details, refer to Configuring Cameras Used by This Function.

Panel Screen Description

Entire Screen
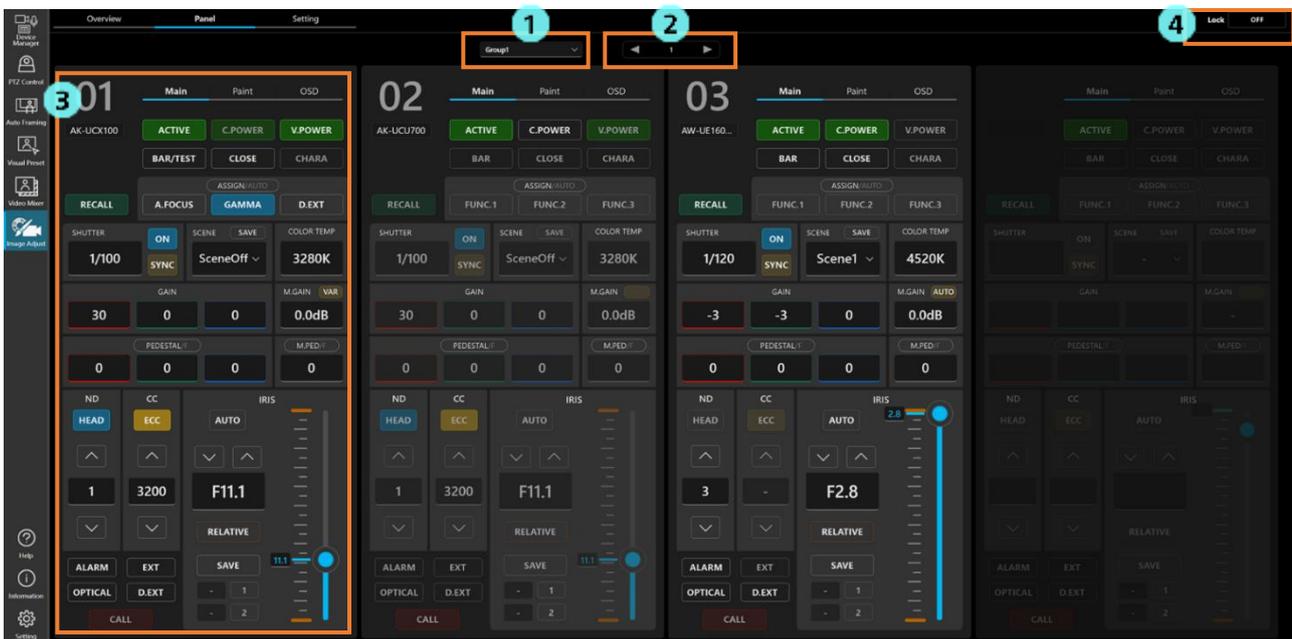
1. Group Selection List

    Select the group to be displayed on the Panel screen from the list.

2. Page Switching Area

    When the number of cameras in the group exceeds the number of panels that can be displayed on one screen, use the left and right buttons to switch pages.

3. Panel Display Area

    Displays the camera operation panels.

    For details, refer to the next page.

4. Screen Lock Button

    Used to toggle the lock status of the entire screen.

    For details, refer to Locking the Screen Display

Panel Display Area

1. Camera Number, Camera Name, and Tally Status Display

    Displays the camera number and camera name assigned to the camera on the Setting screen.

    When the camera tally is ON, the background is displayed in the tally color.

2. Panel Display Switching Tabs

    Switches the panel display content using the Main / Paint / OSD tabs.

    Main: Displays the GUI used for primary image quality adjustments such as shutter and gain.

    For details, refer to Panel Screen – Main Tab Operations

    Paint: Displays the GUI used for detailed image quality adjustments such as gamma and matrix.

    For details, refer to Panel Screen – Paint Tab Operations

    OSD: Displays the GUI for camera OSD operations.

    For details, refer to Panel Screen – OSD Tab Operations

3. Panel Display Area

    Displays the panel GUI selected using the panel display switching tabs above.

Panel Screen – Common Operations (Switching ACTIVE Status)

Using the ACTIVE button on each tab, you can switch the panel's ACTIVE status (enable/disable panel operations).

Each time the button is clicked, the status toggles between ON and OFF.

ON: Panel operations are enabled.

OFF: Panel operations other than this button are disabled.

<NOTE>

This status applies to all tabs: Main / Paint / OSD.

Panel Screen – Common Operations (Changing Setting Values)

If an item's setting value is of an increment/decrement type, clicking the value display field switches to the value change mode (see the figure on the right), and you can increase or decrease the value using the mouse wheel.
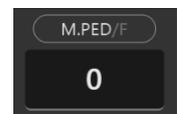
In addition, clicking the background area of the item display shows a pop-up window (as shown in the figure on the right), allowing the value to be increased or decreased using any of the following operations:

・Click the value display field and use the mouse wheel

・Click the increase/decrease buttons

・Click the circular dial and drag counterclockwise to decrease the value,
or clockwise to increase the value

<NOTE>

・Depending on the item, the pop-up window may not include a dial.
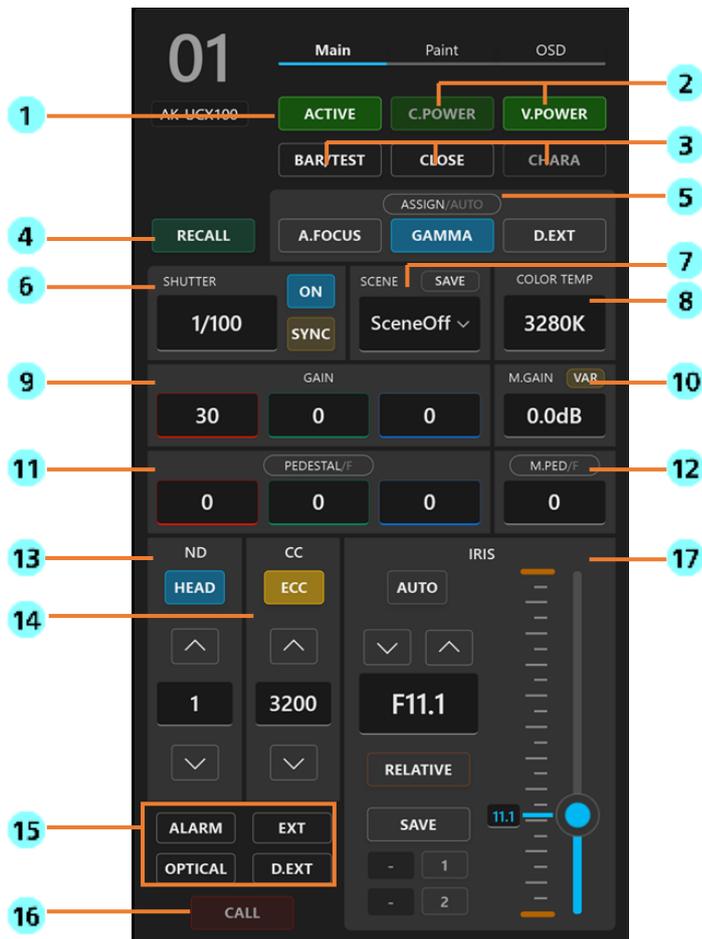
Panel Screen – Main Tab Operations

The Main tab displays the GUI used for primary image quality adjustments such as shutter and gain.

* Depending on the account permissions of this software, the items that can be operated may differ.

 For details, refer to [Function Restrictions by Role](#)

* Supported items and configurable values vary depending on the camera model.

* For details of each item, also refer to the operation manuals of the camera and CCU.

1. ACTIVE Status Switching Button

   This button switches the ACTIVE status (enable/disable panel operations).

   For details, refer to [Panel Screen – Common Operations (Switching ACTIVE Status)](#).

2. Power Status Display / Control Button

   Displays the power status of the camera and the viewfinder.

   Clicking the button toggles the power status ON/OFF.

   C-POWER: Displays the power status of the camera body.

   Lit (green): Power ON

   Unlit: Power OFF

   V-POWER: Displays the power status of the viewfinder.

   Lit (green): Power ON

Unlit: Power OFF

3. ON/OFF Mode Display / Control Button

Displays and controls function groups that have ON/OFF states.

Each click toggles the status between ON and OFF.

BAR： Displays the color bar output status.

Lit: Output ON

Unlit: Output OFF

CLOSE：Displays the iris Close status.

Lit: Close state

Unlit: Other than Close

CHARA：Displays the character display status on the monitor.

Lit: Display ON

Unlit: Display OFF

4. User File Recall Button

Clicking this button recalls User File 1 stored on the camera.

5. User-Assigned Function / Automatic Setup Execution Buttons

This is a group of execution buttons for functions assigned by the user or for automatic setup operations.

Clicking the item name switches between ASSIGN mode (execution of user-assigned functions) and

AUTO mode (execution of automatic setup operations).

・User-assigned function execution mode (ASSIGN)

You can assign arbitrary functions to the three buttons and execute them by clicking the buttons.

For details on how to assign functions to the buttons, refer to Assigning Functions to ASSIGN Buttons

・Automatic setup execution mode (AUTO)
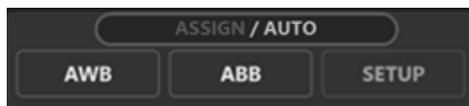
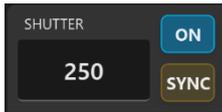Clicking a button executes the corresponding function.

AWB: Executes automatic white balance adjustment.

ABB: Executes automatic black balance adjustment.

SETUP: Executes automatic setup.

6. Shutter Setting Area

This area is used to configure shutter settings.

ON button: Turns the shutter ON/OFF.
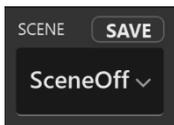
SYNC button: Switches the shutter type.

  ON (lit): Synchro shutter

  OFF (unlit): Step shutter

For details on changing setting values, refer to Panel Screen – Common Operations (Changing Setting Values).

7. Scene File Setting Area

This area is used to recall and save scene files.

Each time the SAVE button is clicked, its state toggles between ON and OFF.

The operation performed when selecting a scene file from the list depends on the state of the SAVE button.

SAVE button OFF (gray): Selecting a scene file from the list recalls that scene file.

SAVE button ON (blue): Selecting a scene file from the list saves the current settings to that scene file.
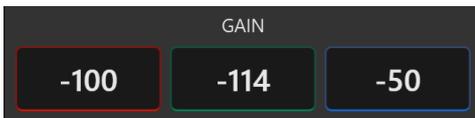
8. Color Temperature Setting Area

This area is used to set the color temperature.
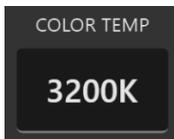
For details on changing setting values, refer to Panel Screen – Common Operations (Changing Setting Values).
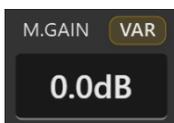
9. R/G/B Gain Setting Area

This area is used to set the R gain, G gain, and B gain values.

For details on changing setting values, refer to Panel Screen – Common Operations (Changing Setting Values).

10. Master Gain Setting Area

This area is used to set the master gain.

The VAR button changes the unit used when setting the master gain value.

  ON: Set in 0.1 dB steps

  OFF: Set in 3 dB steps

For details on changing setting values, refer to Panel Screen – Common Operations (Changing Setting Values).

11. R/G/B Pedestal and R/G/B Flare Setting Area

This area is used to configure the R pedestal / G pedestal / B pedestal or R flare / G flare / B flare settings.

By clicking the item name, you can switch the display and setting target between Pedestal and Flare.

This switching is also reflected in the Master Pedestal and Master Flare setting areas.
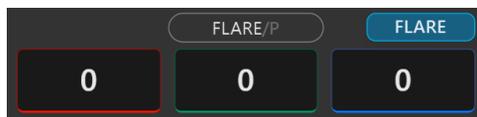
・Pedestal Display / Setting Mode

Use each box to change the setting values for R pedestal, G pedestal, and B pedestal.

For details on changing setting values, refer to Panel Screen – Common Operations (Changing Setting Values).

・Flare Display / Setting Mode

Use the [FLARE] button to switch the flare ON/OFF.

Use each box to change the setting values for R flare, G flare, and B flare.

For details on changing setting values, refer to Panel Screen – Common Operations (Changing Setting Values).

12. Master Pedestal and Master Flare Setting Area

This area is used to configure the Master Pedestal or Master Flare settings.

By clicking the item name, you can switch the display and setting target between Master Pedestal and Master Flare.

This switching is also reflected in the R/G/B Pedestal and R/G/B Flare setting areas.

・Master Pedestal Display / Setting Mode

Use the box to change the master pedestal setting value.

For details on changing setting values, refer to Panel Screen – Common Operations (Changing Setting Values).

・Master Flare Display / Setting Mode

Use the box to change the master flare setting value.

For details on changing setting values, refer to Panel Screen – Common Operations (Changing Setting Values).

13. ND Filter Setting Area

This area is used to configure the ND filter settings.

HEAD button: Sets whether filter control is performed by the camera or by this software.

ON (lit): Filter control is performed by the camera.

OFF (unlit): Filter control is performed by this software.

When the HEAD button is ON (lit):

The setting values are display-only and cannot be changed.

When the HEAD button is OFF (unlit):

The setting values can be changed by clicking the up/down buttons or by clicking the value field and using the mouse wheel.

14. CC Filter / ECC Setting Area

This area is used to configure CC filter or ECC settings.

ECC button: Sets whether CC Filter or ECC is selected as the control target.

ON (lit): ECC is selected as the control target.

OFF (unlit): CC Filter is selected as the control target.

The setting value of the selected control target can be changed by clicking the up/down buttons or by clicking the value field and using the mouse wheel.

15. Warning Display Area

This area lights up when any abnormal condition is detected.

When the ALARM button is lit, clicking the button displays the details of the abnormality in a dialog.

ALARM: An abnormality has occurred in the camera or CCU.

OPTICAL: An abnormality has been detected in the camera cable connection.

EXT: The lens extender is set to a value other than 1x.

D. EXT: The digital extender is set to a value other than 1x.

16. CALL Button

When operated from this GUI, this button toggles the call switch of the camera and CCU ON/OFF.

When a call is made from the camera side, notification is provided by the button lighting and a call sound.

<NOTE>

・When the screen is displayed on an iPad, the call sound will not play until some tap operation is performed after displaying this function screen.

17. Iris Setting Area

This area is used to configure iris settings.

1) Auto Iris ON/OFF Button

Each time the button is clicked, Auto Iris toggles ON or OFF.

ON (blue): Auto Iris ON

OFF (gray): Auto Iris OFF

* When Auto Iris is ON, the controls in items 2) through 5) cannot be operated.

2) Iris Value Display / Setting Area

The iris value can be changed by clicking the up/down buttons, or by clicking the value field and using the mouse wheel.

3) Slider Operation Mode Switching Button

Each time the button is clicked, the operation mode of the iris setting slider switches.

For details, refer to the description of 5) Iris Setting Slider.

4) Iris Preset Area

Up to two iris values can be saved and recalled at any desired time.

・Saving

Click the SAVE button to turn it ON (blue), then click button 1 or 2 to save the current iris value.

・Recalling

When the SAVE button is OFF (gray), click button 1 or 2 to recall the previously saved iris value.

5) Iris Setting Slider

Move the slider up or down to set the iris value.

Depending on the state of the Slider Operation Mode Switching Button (hereinafter referred to as the RELATIVE button), the range of iris values that can be set using the slider changes.

・RELATIVE Button OFF (dark orange frame)

The full slider range corresponds to the entire iris range available on the camera.
Top of the slider: Maximum iris value available on the camera
Bottom of the slider: Minimum iris value available on the camera

Two orange lines are displayed on the slider scale.
By clicking and dragging these lines up or down, you can set the upper and lower limits for iris adjustment using the slider.
Upper line: Sets the upper limit
Lower line: Sets the lower limit
* The movable range of the slider knob is also limited to the range defined by these upper and lower limits.
* The range defined here is used as the full slider range when the RELATIVE button is ON.

・RELATIVE Button ON (bright orange frame)

The full slider range corresponds to the iris range defined by the orange limit lines when the RELATIVE button was OFF, allowing the slider resolution to be increased relatively.
Top of the slider: Upper limit set when RELATIVE was OFF
Bottom of the slider: Lower limit set when RELATIVE was OFF

<NOTE>
・When the device is AK-UC4000 or AK-UC3300, iris adjustment using "2) Iris Value Display / Setting Area" does not function.

Panel Screen – Paint Tab Operations

The Paint tab displays a GUI used for detailed image quality adjustments such as gamma and matrix settings.

* Depending on the account permissions of this software, the items that can be operated may differ.

 For details, refer to [Function Restrictions by Role](#)

* Supported items and configurable values vary depending on the camera model.

* For details of each item, also refer to the operation manuals of the camera and CCU.
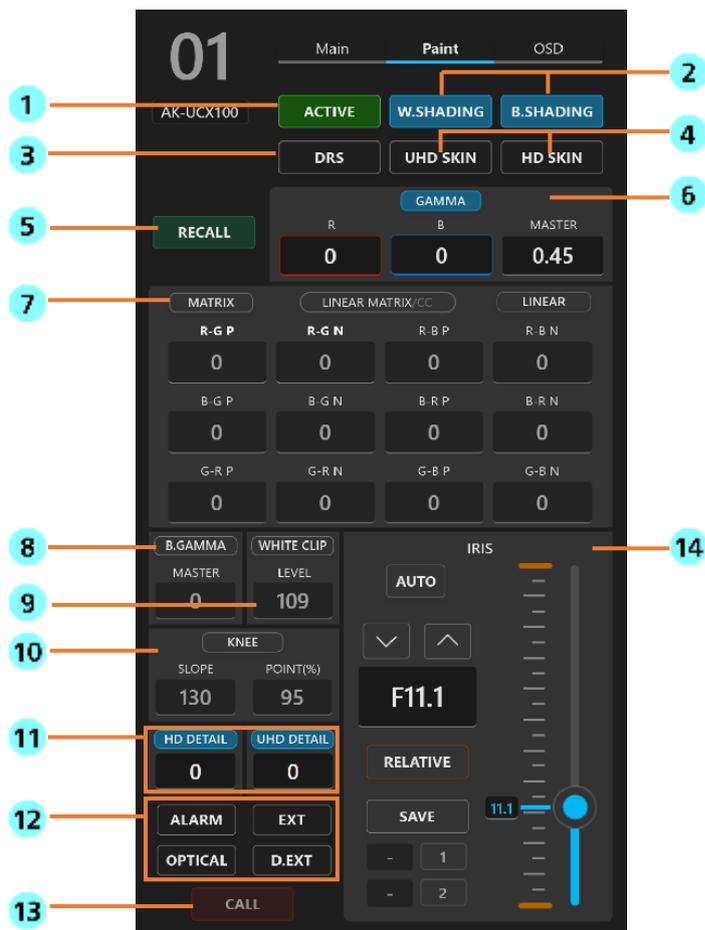
1. ACTIVE Status Switching Button

> This button switches the ACTIVE status (enables/disables panel operations).
>
> For details, refer to [Panel Screen – Common Operations (Switching ACTIVE Status)](#).

2. Shading Status Display / Setting Buttons

> The W.SHADING button displays/sets the ON/OFF status of white shading.
>
> The B.SHADING button displays/sets the ON/OFF status of black shading.
>
> Each time a button is clicked, the status toggles between ON and OFF.

3. Dynamic Range Stretcher Status Display / Setting Button

> This button displays/sets the ON/OFF status of the Dynamic Range Stretcher function.
>
> Each click toggles the status between ON and OFF.

4. Skin Detail Status Display / Setting Buttons

   UHD SKIN displays/sets the ON/OFF status of UHD skin detail.

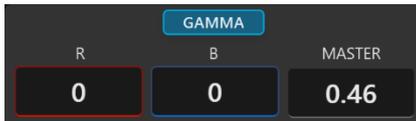   HD SKIN displays/sets the ON/OFF status of HD skin detail.

   Each time a button is clicked, the status toggles between ON and OFF.

5. Reference File Recall Button

   Clicking this button recalls the reference setting data (reference file) stored on the camera.

6. Gamma Setting Area

   This area is used to configure R Gamma, B Gamma, and Master Gamma settings.

   Clicking the [GAMMA] button toggles gamma ON/OFF.
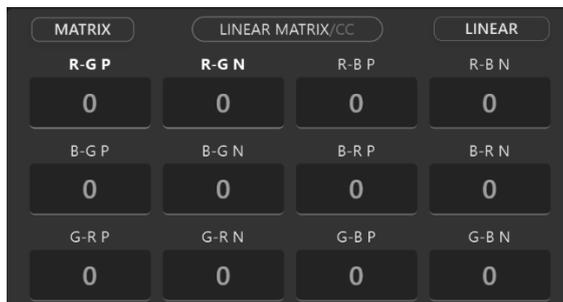
   > Lit (blue): ON

   > Unlit (gray): OFF

   For details on changing setting values, refer to Panel Screen – Common Operations (Changing Setting Values).

7. Linear Matrix / Color Correction Setting Area

   This area is used to configure Linear Matrix or Color Correction settings.

   By clicking the item name, you can switch the display/setting target between Linear Matrix and Color Correction.

   ・Linear Matrix Display / Setting Mode

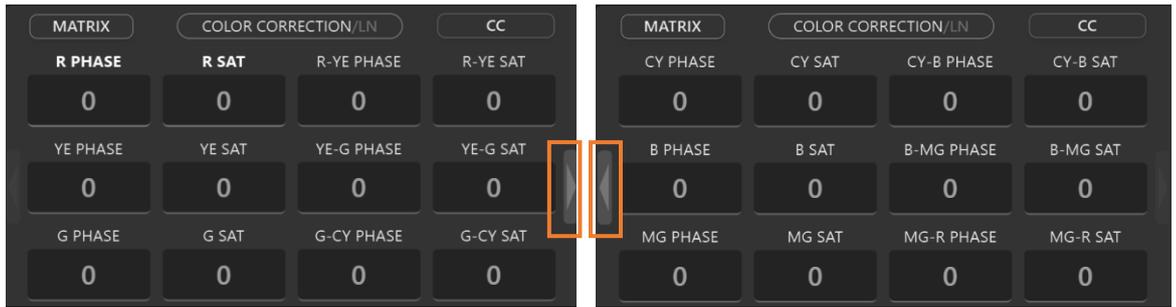   Clicking the [MATRIX] button toggles Matrix ON/OFF.

   Clicking the [LINEAR] button toggles Linear Matrix ON/OFF.

   > Lit (blue): ON

   > Unlit (gray): OFF

   For details on changing setting values, refer to Panel Screen – Common Operations (Changing Setting Values).

・Color Correction Display / Setting Mode

MATRIX	COLOR CORRECTION/LN		CC		MATRIX	COLOR CORRECTION/LN		CC
R PHASE	R SAT	R-YE PHASE	R-YE SAT		CY PHASE	CY SAT	CY-B PHASE	CY-B SAT
0	0	0	0		0	0	0	0
YE PHASE	YE SAT	YE-G PHASE	YE-G SAT		B PHASE	B SAT	B-MG PHASE	B-MG SAT
0	0	0	0		0	0	0	0
G PHASE	G SAT	G-CY PHASE	G-CY SAT		MG PHASE	MG SAT	MG-R PHASE	MG-R SAT
0	0	0	0		0	0	0	0

Clicking the [MATRIX] button toggles Matrix ON/OFF.

Clicking the [CC] button toggles Color Correction ON/OFF.

Clicking the arrow buttons at the edge of the area switches the setting value items.

For details on changing setting values, refer to Panel Screen – Common Operations (Changing Setting Values).

8. Black Gamma Setting Area

This area is used to configure Black Gamma settings.
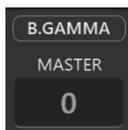
Clicking the [B.GAMMA] button toggles Black Gamma ON/OFF.

> Lit (blue): ON

> Unlit (gray): OFF

For details on changing setting values, refer to Panel Screen – Common Operations (Changing Setting Values).

9. White Clip Setting Area

This area is used to configure White Clip settings.

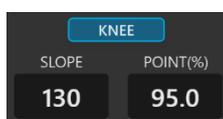Clicking the [WHITE CLIP] button toggles White Clip ON/OFF.

> Lit (blue): ON

> Unlit (gray): OFF

For details on changing setting values, refer to Panel Screen – Common Operations (Changing Setting Values).

10. Knee Setting Area

This area is used to configure Knee Slope and Knee Point settings.

Clicking the [KNEE] button switches the knee mode.

If the camera supports AUTO/MANUAL settings in addition to ON/OFF, the mode cycles through OFF / AUTO / MANUAL.

> KNEE (gray display): OFF state

> KNEE AUTO (blue display): ON and AUTO state

> KNEE MANUAL (blue display): ON and MANUAL state

If the camera supports only ON/OFF settings, the mode toggles between ON and OFF.

KNEE (blue display): ON state

KNEE (gray display): OFF state

For details on changing setting values, refer to [Panel Screen – Common Operations (Changing Setting Values)](#).

11. Detail Setting Area

This area is used to configure HD Detail and UHD Detail settings.

For details on changing setting values, refer to [Panel Screen – Common Operations (Changing Setting Values)](#).

12. Warning Display Area

13. CALL Button

14. Iris Setting Area

The operation is the same as that on the Main tab.

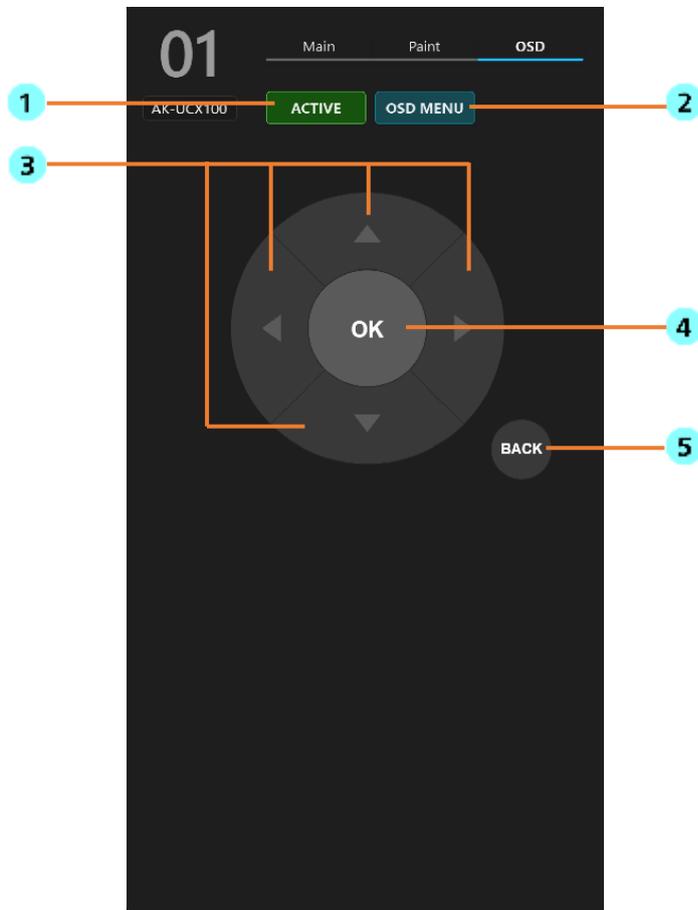For details, refer to [Panel Screen – Main Tab Operations](#).

Panel Screen – OSD Tab Operations

The OSD tab displays a GUI for operating the camera's OSD (On-Screen Display).

* Depending on the account permissions of this software, the items that can be operated may differ.

 For details, refer to [Function Restrictions by Role](#)

1. ACTIVE Status Switching Button

   This button switches the ACTIVE status (enables/disables panel operations).

   For details, refer to [Panel Screen – Common Operations (Switching ACTIVE Status)](#).

2. OSD Menu Display Switching Button

   Each time the button is clicked, the display of the camera's OSD menu toggles ON/OFF.

   Lit (bright blue): OSD menu display ON

   Unlit (dark blue): OSD menu display OFF

3. OSD Menu Operation Buttons

   These buttons are used to select menu items and setting values.

   <NOTE>

   ・When clicking the Up/Down buttons, the operation is as follows:

   Up button: When the target is a menu position, the menu moves up.

   When the target is a numeric setting, the value decreases.

Down button: When the target is a menu position, the menu moves down.

When the target is a numeric setting, the value increases.

4. OK Button

Clicking this button confirms the current menu setting.
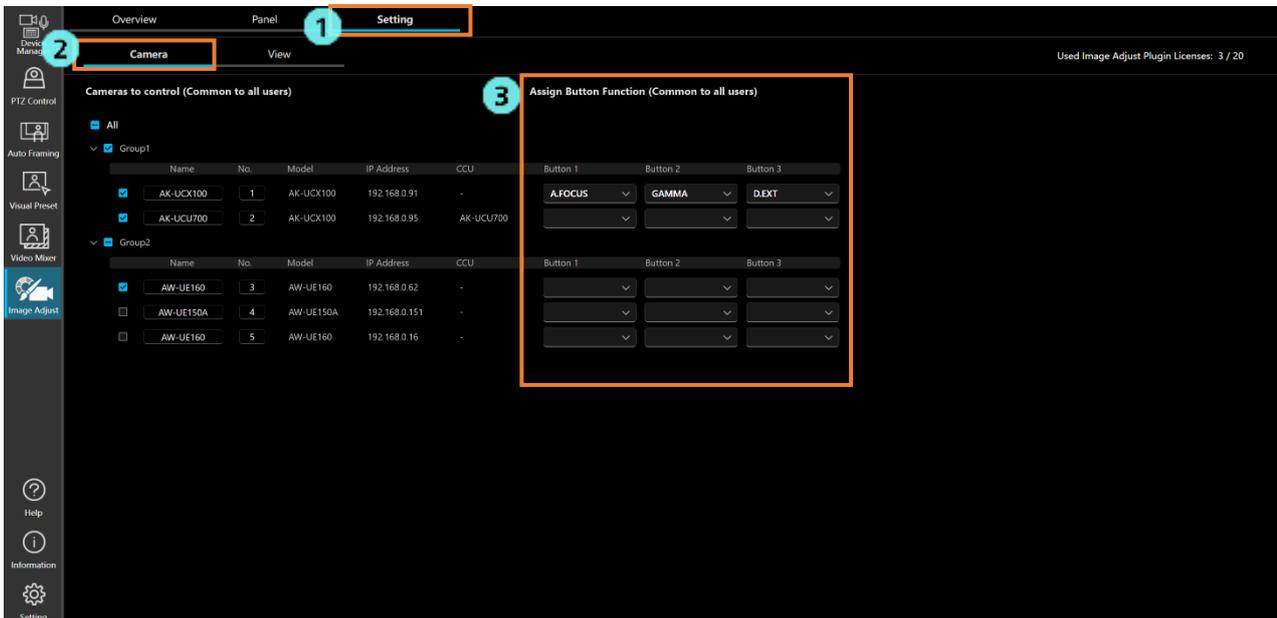
5. Back Button

Clicking this button returns the menu to the previous state.

Assigning Functions to ASSIGN Buttons

You can assign arbitrary functions to the three buttons displayed in the ASSIGN area of the Main tab (the framed area shown in the figure below) and execute them by clicking the buttons.

Procedure for Assigning Functions

1. Click the [Setting] tab at the top of this function's screen to display the Setting screen.

2. Click the [Camera] tab.

3. In the [Assign Button Function] area in the center of the Setting screen, assign functions to the buttons.
   Clicking the box displayed below each column for [Button 1], [Button 2], or [Button 3] displays a list of assignable functions.
   Select the function you want to assign.

Assignable Functions

| Display Name	Description
(Blank)	Clears the assigned function.
A.FOCUS	Sets Auto Focus ON/OFF.
OPAF	Executes One Push AF.
AF.PRST1	Selects AF Preset Memory 1.
AF.PRST2	Selects AF Preset Memory 2.
AF.PRST3	Selects AF Preset Memory 3.
AF.PRST4	Selects AF Preset Memory 4.
AF.PRST5	Selects AF Preset Memory 5.
GAMMA	Sets Gamma ON/OFF.
FLARE	Sets Flare ON/OFF.
KNEE	Sets Knee ON/OFF.
WHITE CLIP	Sets White Clip ON/OFF.
MATRIX	Sets Matrix ON/OFF.
L.MATRIX	Sets Linear Matrix ON/OFF.
CC	Sets Color Correction ON/OFF.
HD.DETAIL	Sets HD Detail ON/OFF.
UHD.DETAIL	Sets UHD Detail ON/OFF.
D.EXT	Sets Digital Extender ON/OFF.
DRS	Sets the Dynamic Range Stretcher function ON/OFF.
FPS 60	Turns FPS Mode ON and sets it to 60 FPS.
FPS 50	Turns FPS Mode ON and sets it to 50 FPS.
FPS 30	Turns FPS Mode ON and sets it to 30 FPS.
FPS 25	Turns FPS Mode ON and sets it to 25 FPS.
FPS 24	Turns FPS Mode ON and sets it to 24 FPS.
FPS OFF	Turns FPS Mode OFF.

Common Operations

Locking the Screen Display

You can lock part or all of the display on the Overview screen and the Panel screen.

When the screen is locked, setting values and other items are displayed as read-only, and operations cannot be performed.

Each time you click the Lock button located in the upper-right corner of the Overview screen or Panel screen, the lock status of the screen switches.

The lock status is reflected on both the Overview screen and the Panel screen.
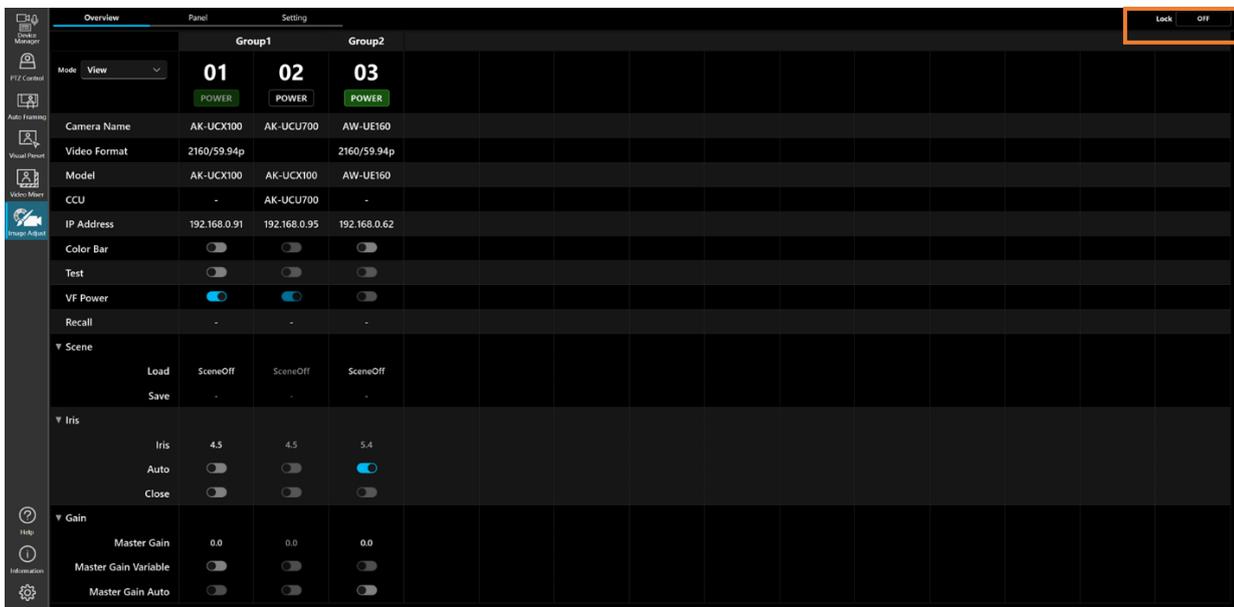
OFF: Unlocked state (all items can be operated)

↓

ON (Partial): Partially locked state (all items except Iris are locked; only Iris can be operated)

↓

ON (All): Fully locked state (no items can be operated)

↓

Returns to OFF

Function Restrictions by Role

List of Function Restrictions by Role

Among the account permission levels Administrator, Super User, and User, functions available to accounts other than Administrator are subject to restrictions.

In the table below, items marked with a ○ indicate functions that are available.

		Administrator	Super User	User
Overview Screen	Screen display lock	○	○	○
	Store	○		
	Load	○	○	○
	Copy	○	○	○
	Changing setting values	Depends on the setting item（Refer to List of Setting Items）		
Panel Screen	Screen display lock	○	○	○
	OSD menu operations	○		
	Changing setting values	Depends on the setting item（Refer to List of Setting Items）		
Setting Screen	Selecting cameras to be used	○		
	Assigning functions to ASSIGN buttons	○		
	Selecting items displayed on the Overview screen	○	○	○

List of Setting Items

Setting Item List

Main Item	Sub Item	Applicable to Store / Load / Copy	Operable accounts		
			Administrator	Super User	User
Video Format	-		○		
Color Bar	-		○	○	○
Test	-		○	○	○
VF Power	-		○	○	○
Recall	-		○	○	○
Scene	Load		○	○	○
	Save		○	○	○
Iris	Iris	○	○	○	○
	Auto	○	○	○	○
	Close		○	○	○
	Save		○	○	○
	Load		○	○	○
Gain	Master Gain Variable		○	○	○
	Master Gain	○	○	○	○
	R Gain		○	○	○
	G Gain		○	○	○
	B Gain		○	○	○
	Super Gain		○	○	○
Pedestal	Master Pedestal	○	○	○	○
	R Pedestal		○	○	○
	G Pedestal		○	○	○
	B Pedestal		○	○	○
Flare	ON/OFF	○	○	○	○
	Master Flare		○	○	○
	R Flare		○	○	○
	G Flare		○	○	○
	B Flare		○	○	○
HD Detail	ON/OFF	○	○	○	○
	Detail		○	○	○

Item	Setting				
UHD Detail	ON/OFF	○	○	○	○
	Detail		○	○	○
HD SKIN	-	○	○	○	○
UHD SKIN	-	○	○	○	○
Shutter	ON/OFF	○	○	○	○
	Shutter Step		○	○	○
	Shutter Sync		○	○	○
	Type		○	○	○
ND Filter	Value	○	○	○	○
	HEAD		○	○	○
CC Filter	-	○	○	○	○
ECC	-	○ (*1)	○	○	○
DRS	-	○	○	○	○
W SHADING (*3)	-	○	○	○	○
B SHADING (*3)	-	○	○	○	○
Gamma (*2)	ON/OFF	○	○	○	○
	Master Gamma		○	○	○
	R Gamma		○	○	○
	B Gamma		○	○	○
Black Gamma (*2)	ON/OFF	○	○	○	○
	Master Black Gamma		○	○	○
Knee	ON/OFF	○	○	○	○
	Mode		○	○	○
	Slope		○	○	○
	Point		○	○	○
White Clip	ON/OFF	○	○	○	○
	Level		○	○	○
Matrix	ON/OFF	○	○	○	○
Linear Matrix (*2)	ON/OFF	○	○	○	○
	各設定値		○	○	○
Color Correction (*2)	ON/OFF	○	○	○	○
	各設定値		○	○	○
Color Temperature	-	○ (*1)	○	○	○
AWB	-		○	○	○
ABB	-		○	○	○
Auto Setup	-		○		
Char	-		○	○	○
Call	-		○	○	○
D. Extender	ON/OFF	○	○	○	○

	Mode	○	○	○	○
V-Log	ON/OFF	○	○	○	○
	Paint		○	○	○
HDR	-	○	○	○	○
GAMUT	-	○	○	○	○

*1: When the device is AK-UC4400 or AK-UC3300, the item is not applicable to Store / Load / Copy.

*2: When the device is AW-UE150A, ON/OFF operations are not available.

Settings and Load/Copy operations via this GUI are possible only when the corresponding items are adjustable on the camera body.

*3: Not supported when the device is a PTZ camera.