# Integrated Software Operation Manual (PTZ Control)

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# **About the PTZ Control Function**

# **Function Overview**

The PTZ Control function offers functionality to operate remote cameras.

- With the PTZ Control function, you can:

Pan, tilt and zoom remote cameras

Operate remote camera presets

Adjust remote camera image quality

Start/stop remote camera video recording

Adjust remote camera audio volume

Open the remote camera web screen

Set and operate the auto tracking function for remote cameras

Operate multiple remote cameras simultaneously

# **Selecting the PTZ Control Function**

Click the [PTZ Control] button in the function selection area on the left of the screen to display the PTZ Control function screen.



# **PTZ Control Function Screen**

The PTZ Control function has multiple screens, and you can switch between them in accordance with use.

# [Main] tab

[Single Camera] screen

This screen is to control a single remote camera.

For details, see [Single Camera Screen] in this document.

[Multiple Cameras] screen

Multiple remote cameras are arranged next to each other on this screen to control them at the same time.

For details, see [Multiple Cameras Screen] in this document.

[Group Control] screen

This screen allows you to have the same operation take place across multiple remote cameras simultaneously.

For details, see [Group Control Screen] in this document.

# [Preset] tab

This screen allows you to control a single or multiple remote cameras, primarily with presets.

For details, see [Preset Screen] in this document.

# Single Camera Screen

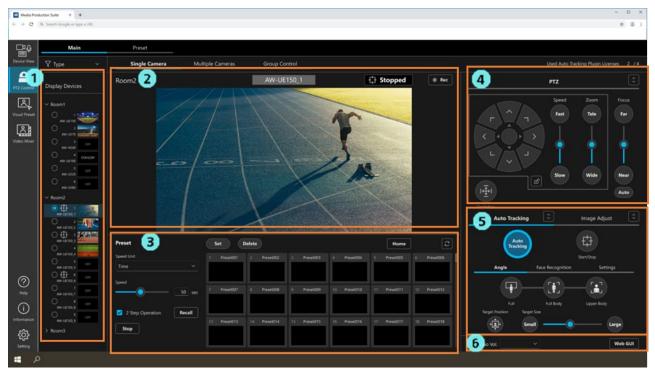
# **Screen Characteristics**

This screen is used to perform operations on a single remote camera.

You can perform the following operation on this screen:

- Operate pan, tilt and zoom
- Operate presets
- · Adjust focus/camera image quality
- Start/stop video recording
- · Adjust audio volume
- Open the web screen
- Configuring and operating the Auto Tracking function

# **Screen Explanation**



1. Camera selection area

Select the camera you want to operate from the tree on this screen.

# 2. Camera view area

This shows information like the camera name and the video being recorded by the camera.

# 3. Preset operation area

You can operate camera presets.

#### 4. Camera controller PTZ operator

You can operate camera pan, tilt and zoom, and focus.

# 5. Camera controller Auto Tracking/Image Adjust control panel

This area is split into the [Auto Tracking] tab and [Image Adjust] tab.

# [Auto Tracking] tab

You can perform the Auto Tracking operation on the camera.

For details, refer to "Configuring and Operating the Auto Tracking Function" in this manual.

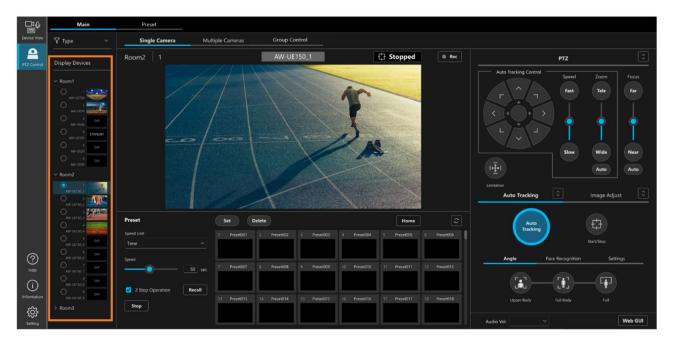
# [Image Adjust] tab

You can adjust the camera image quality.

# 6. Audio volume adjuster and web screen display operator

You can adjust camera audio volume and display the web screen.

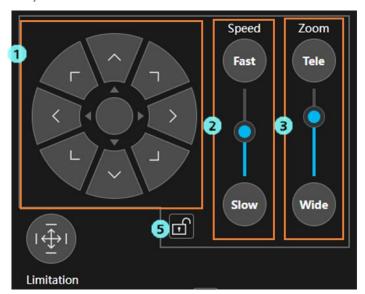
# **Select Camera to Operate**



Select the camera you want to operate from the camera selection area (area in the above figure surrounded by a bounding box).

# Pan, Tilt and Zoom Camera

# Pan, Tile and Zoom With the Camera Controller





# 1. Pan/Tilt operator

Pressing any of the directional buttons will pan and tilt the camera in that direction.

Click the round button in the middle to switch to joystick mode (Fig. 4 above).

# 2. Pan/Tilt/Zoom speed setting slider/button

The speed of panning, tilting and zooming can be set with a slider or a button.

#### 3. Zoom operation slider/button

Clicking and dragging the knob on the slider, or holding the [Tele] or [Wide] button down, will change the zoom position of the camera.

If the camera is not compatible with zoom position controls, the Zoom operator slider will not be shown and movement direction will only be controllable with the [Tele] and [Wide] buttons.

The Auto button is reserved for future expansions. It is not supported in the current version.

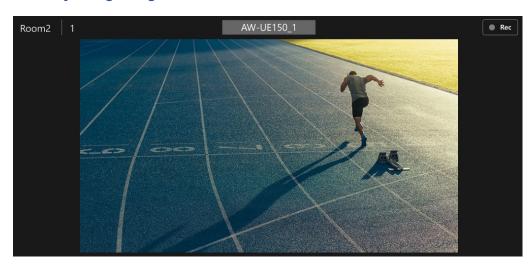
# 4. Pan/Tilt operator (during joystick mode)

Dragging the round button in a direction will allow you to pan and tilt the camera in that direction.

#### 5. PTZ control lock button

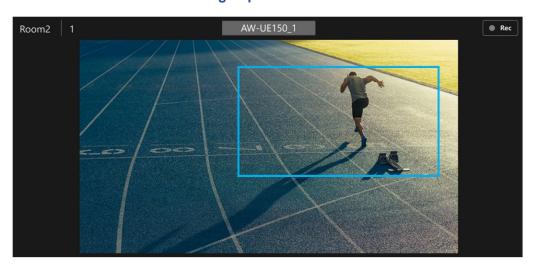
Turn the button ON to lock the operation in the [Manual Control] area.

# Pan/Tilt by Designating a Position in the Video



Click anywhere in the camera's video to pan and tilt the camera with that position as the center of focus.

# Pan/Tilt/Zoom to Record the Range Specified in the Video



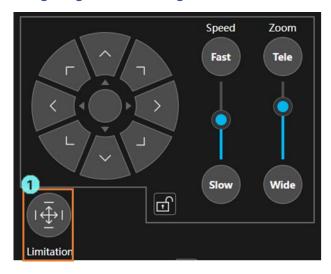
Click and drag the mouse over the camera's view to display a square shape in the video.

Letting go of the mouse button while the square shape is displayed will set that as a range of recording in which the camera pans, tilts and zooms.

# **Zoom with the Mouse Wheel**

Use the mouse wheel while hovering over the camera's view to zoom that camera in and out.

# **Configuring Pan/Title Range**





Click the [Limitation] button (Fig. 1 above) in the PTZ control panel to display the Pan/Tilt range setting panel (Fig. 2 above).

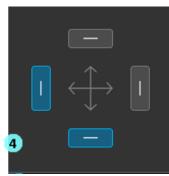
Click any of the direction buttons on the control panel to turn it ON and save the current camera position in the camera as the movement range limit position in that direction. If you click the button again to turn it OFF, the saved movement range limit position is erased.

If the movement range limit position has been set, the Limitation icon changes as shown below.

The blue lines within the icon indicate that the movement range limit position has been set in the corresponding direction.

In the examples shown in Figs. 3 and 4 below, the movement range limit position has been set in the left and downward direction.





# **Configuring Camera Presets**

You can register presets such as camera positions and call them up at any time.

- Up to 100 presets can be registered.
- Preset contents are stored in the camera.

# **Registering Presets**



- 1. Click the [Set] button in the preset operator to turn the button ON.
- 2. Click the preset number's thumbnail of the preset you want to register from the preset list display area.
- 3. The preset will be registered.

# **Deleting Presets**



- 1. Click the [Delete] button in the preset operator to turn the button ON.
- 2. Click the preset number's thumbnail of the preset you want to delete from the preset list display area.
- 3. The preset will be deleted.

# **Calling Presets**



Presets can be called using either of the two following methods.

- 1) Click a preset number's thumbnail to call it immediately.
  - 1. Uncheck the [2 Step Operation] checkbox.
  - 2. Click the preset number's thumbnail of the preset you want to call from the preset list display area to call that preset.
- 2) After clicking a preset number's thumbnail and selecting it, click the [Recall] button to call it
  - 1. Check the [2 Step Operation] checkbox.
  - 2. Click the preset number's thumbnail of the preset you want to call from the preset list display area.
  - 3. Click the [Recall] button to call a preset.

# **Cancelling Preset Calls**



Click the [Stop] button during the calling of a preset to cancel the calling of that preset.

# **Updating Preset to Latest**



Click the preset update button (area in the above figure surrounded by a bounding box) to load the latest preset from the camera and update the screen display.

#### <NOTE>

• Camera preset information registered for the first time and preset information registered with other software will not automatically display, so follow this procedure to change the preset information display.

# **Changing Preset Names**



- 1. Click the [Set] button in the preset operator to turn the button ON.
- 2. Click the preset number's name of the preset you want to change names for from the preset list display area.
- 3. This will make the name editable, so change the name.
- 4. Change the focus to another control to confirm that name.

# **Configuring Preset Movement Speed**



1. With [Speed Unit], you can select the unit used for preset movement speed.

Speed Table (Fast)

The speed table value (fast) set for the camera is the unit.

The higher the value, the higher the movement speed will be.

Speed Table (Slow)

The speed table value (slow) set for the camera is the unit.

The higher the value, the higher the movement speed will be.

Time

The number of seconds required from the start of the preset to the end of the preset is the unit.

2. Set the preset movement speed with the [Speed] setting slider or directly with the input value.

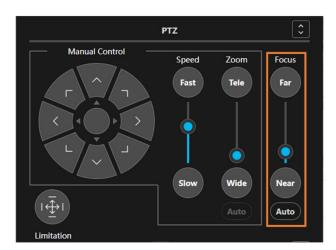
# **Calling Home Position**



Click the [Home] button (area in the above figure surrounded by a bounding box) to call the camera's home position.

# **Adjusting Focus/Camera Image Quality**

#### **Adjusting Focus**



The Focus for the camera can be adjusted with the Focus part (area in the above figure surrounded by a bounding box) in the camera controller PTZ operator.

Click and drag the knob on the slider, or push the [Far] or [Near] button, to change the focus position of the camera. Click the [Auto] button to turn the camera's Auto Focus Function ON and OFF.

#### <NOTE>

• If the focus position changes on the camera, the position of the knob on the slider will change automatically to align with that.

#### **Adjusting Iris**



The Iris for the camera can be adjusted with the Iris part (area in the above figure surrounded by a bounding box) in the camera controller Image Adjust operator.

Click and drag the knob on the slider, or push the [+] or [-] button, to change the iris position of the camera. Click the [Auto] button to turn the camera's Auto Iris Function ON and OFF.

#### <NOTE>

• If the iris position changes on the camera, the position of the knob on the slider will change automatically to align with that.

# **Configuring Gain**



The Gain for the camera can be configured with the Gain part (area in the above figure surrounded by a bounding box) in the camera controller Image Adjust operation part.

Click the up and down arrow buttons to change setting values.

Click a displayed setting value to display a list of settable values, from which you can select setting values directly.

# <NOTE>

• If setting values change on the camera, the displayed setting value will change automatically to align with that.

# **Configuring White Balance Mode**



The White Balance mode for the camera can be configured with the WB part (area in the above figure surrounded by a bounding box) in the camera controller Image Adjust operator.

Click the up and down arrow buttons to change setting values.

Click a displayed setting value to display a list of settable values, from which you can select setting values directly.

# <NOTE>

• If setting values change on the camera, the displayed setting value will change automatically to align with that.

# **Executing AWB/ABB**



Click the [AWB] button in the camera controller Image Adjust operator to execute AWB on the camera. Click the [ABB] button to execute ABB on the camera.

# **Configuring Shutter Mode**



The Shutter mode for the camera can be configured with the Shutter part (area in the above figure surrounded by a bounding box) in the camera controller Image Adjust operator.

Click the up and down arrow buttons to change setting values.

Click a displayed setting value to display a list of settable values, from which you can select setting values directly.

# <NOTE>

• If setting values change on the camera, the displayed setting value will change automatically to align with that.

# **Configuring ND Filter**



The ND Filter for the camera can be configured with the ND part (area in the above figure surrounded by a bounding box) in the camera controller Image Adjust operator.

Click the up and down arrow buttons to change setting values.

Click a displayed setting value to display a list of settable values, from which you can select setting values directly.

# <NOTE>

• If setting values change on the camera, the displayed setting value will change automatically to align with that.

# **Starting/Stopping Camera Video Recording**



If the camera supports the video recording function, you can click the [Rec] button (area in the above figure surrounded by a bounding box) in the camera video area to start and stop video recording on the camera.

# **Adjusting Camera Audio Volume**



The audio volume for the camera can be adjusted with the audio volume adjuster (area in the above figure surrounded by a bounding box) in the lower part of the camera controller.

If the camera supports multiple audio channels, the volume value for Channel 1 will be displayed and settings will be applied to both Channel 1 and 2.

# **Opening Camera Web Screen**



Click the [Web GUI] button in the lower portion of the camera controller to open a camera's web screen with a web browser.

# **Configuring and Controlling the Auto Tracking Function**

# **About the Auto Tracking function**

This function allows a camera to automatically detect and track a subject.

You can select whether to use the Auto Tracking function (hereinafter, called PC Auto Tracking) using a PC based on the AW-SF100/200/202/203 license, or the Auto Tracking function built into the camera\*1 (hereinafter, called Built-In Auto Tracking) from the Tracking Type item on the Detail Setting window.\*2

\*1: AW-UE40/50/80

\*2: If there is no activated AW-SF100/200/202/203 license, Built-In Auto Tracking is used automatically.

## **Turning the Auto Tracking function ON/OFF**



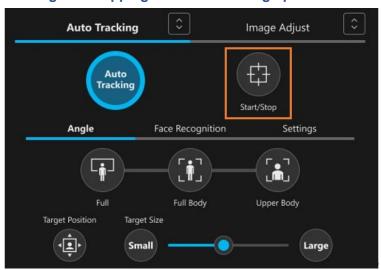
You can turn the Auto Tracking Function ON/OFF with the [Auto Tracking] button (enclosed within a frame in the figure above) in the Auto Tracking control panel of the camera controller.

# <NOTE>

• If the Auto Tracking function is switched between ON and OFF from the camera, the display of the [Auto Tracking] button also changes automatically in accordance with it.

However, if PC Auto Tracking based on the AW-SF100/200/202/203 license is used, the Auto Tracking function cannot be switched between ON and OFF from the camera.

#### Starting and stopping the Auto Tracking operation



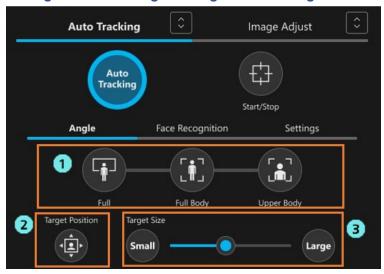
You can start or stop the camera movement using Auto Tracking with the [Start/Stop] button (enclosed within a frame in the figure above) in the Auto Tracking control panel of the camera controller.

#### <NOTE>

• If the status of camera movement using Auto Tracking is changed from the camera, the display of the [Start/Stop] button also changes automatically in accordance with it.

However, if PC Auto Tracking based on the AW-SF100/200/202/203 license is used, the Auto Tracking function cannot be switched between ON and OFF from the camera.

# Setting the camera angle during Auto Tracking



You can set the camera angle during Auto Tracking with the [Full] button/[Full Body] button/[Upper Body] button (Fig. 1 above) under the [Angle] tab in the Auto Tracking control panel of the camera controller.

# [Upper Body] button is ON

The angle is automatically adjusted so that the upper half of the subject's body is in the screen.

# [Full Body] button is ON

The angle is automatically adjusted so that the subject's entire body is in the screen.

# [Full] button is ON

The angle is automatically adjusted so that the subject and the background are in the screen.

#### All buttons are OFF

The angle is not automatically adjusted. The angle can be adjusted from the Zoom control panel.

#### <NOTE>

• If the angle setting is changed on the camera, the display of the button also changes automatically in accordance with it.

However, if PC Auto Tracking using the AW-SF100/200/202/203 license, the angle setting cannot be changed on the camera

• When any of the [Full]/[Full Body]/[Upper Body] buttons is turned ON, the [Start/Stop] button in the Auto Tracking control panel of the camera controller automatically changes to the [Start] state which indicates the start of the camera movement by Auto Tracking.

The following are functions exclusive to PC Auto Tracking with the AW-SF100/200/202/203 license.

It does not work with Built-In Auto Tracking.

You can make detailed settings for each camera angle with the [Target Position] button (Fig. 2 above) and the [Target Size] button/slider (Fig. 3 above).

# [Target Position] button

If you turn the [Target Position] button ON when any one of the [Full]/[Full Body]/[Upper Body] buttons is ON, or all buttons are OFF, you can adjust the position of the tracked subject at the target angle.

By clicking on the camera view area, you can adjust the cross mark (+), which implies the overhead position of the tracked subject at the target angle.

#### <NOTE>

The position of the tracked subject is saved for each angle.
However, the position is not saved if all angle buttons are OFF.

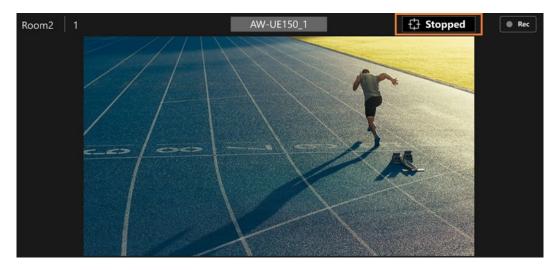
#### [Target Size] button/slider

When any one of the [Full]/[Full Body]/[Upper Body] buttons is ON, you can adjust the size of the tracked subject with the [Small] button, [Large] button, or the horizontal slider in the [Target Size] area.

# <NOTE>

• The size of the tracked subject is saved for each angle.

# **Checking the status during Auto Tracking**



The tracking status during Auto Tracking is displayed at the top right of the camera view area.

# Tracking

A subject has been detected and is being automatically tracked

# Lost

The subject has been lost and is no longer being automatically tracked

# Stopped

Auto Tracking is not performed because the Auto Tracking function is OFF or a subject has not been designated.

# <NOTE>

• The tracking status is also shown in the device list view of the Device View function.

# Configuring the operation of the Facial Recognition function



This function is limited to PC Auto Tracking with the AW-SF100/200/202/203 license.

It does not work with Built-In Auto Tracking.

#### 1. Display the set face

The face photograph and name of the person set as the source for facial recognition is displayed.

#### 2. Auto Face Search checkbox

If you tick this checkbox, the face of the person registered for facial recognition and the face detected in the camera view are compared, and if any person is detected, that person is set as the target of the tracking process.

#### 3. Select button

Displays the Select Face window.

On the Select Face window, you can select the face data used as the source for facial recognition.

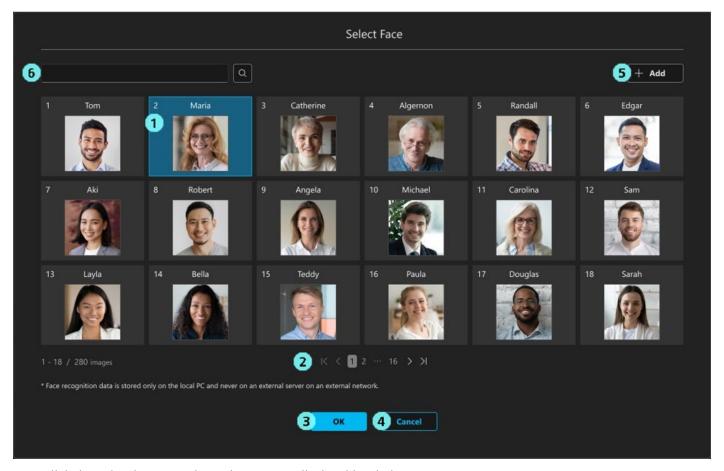
#### 4. Clear button

Clears the face data set as the source for facial recognition that is linked with the camera.

#### <NOTE>

- · If the facial recognition is enabled, only the subject set as tracking target's face will be tracked.
- When a person's face is detected within the camera view, double left-click on the face to set the face data of that person as the source for facial recognition. This face data will not be saved.
- The Facial recognition may not work if the face of subject is too small for the angle of view.

#### Selecting the face data to recognize



Click the Select button on the Main screen to display this window.

On this window, you can set the face of the tracking target.

# 1. Face data list display

This is a list of registered face data.

You can select/deselect the face data by clicking on it. The selected face data will be displayed with a blue background.

# 2. Page switching buttons

You can switch the face data list display page.

#### 3. OK button

Activate the settings and close the window.

#### 4. Cancel button

Cancel the settings and close the window.

#### 5. Add button

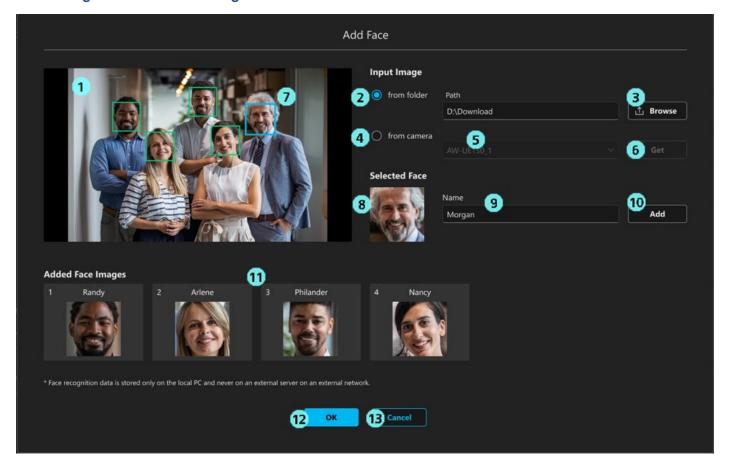
Moves the display to the Add Face Data screen.

# 6. Face data search box

You can search for registered face data by entering a name.

Search results are displayed in a list display.

# Adding the face data to recognize



You can register new face data.

# 1. Image display area

Images loaded by using the [Browse] or [Get] button are displayed.

# 2. Folder button

Click to select an image from the device on which this software is installed.

#### 3. Browse button

Click to display an image selection dialog box, allowing you to load a JPEG image. \*1

#### 4. Camera button

Click to register a face from the camera image.

#### 5. Camera selection box

Select the camera from which you want to capture video. \*2

The camera on which this function is running is displayed in a list.

#### 6. Get button

Left-click to capture and load the video from the camera selected in the camera selection box.

# 7. Face detection display frame

When a face is detected in the loaded image, a frame will be displayed around the face.

Clicking on the frame will select that face as the target. The selected face will be displayed in a blue frame.

# 8. Face image display

The image of the selected face is displayed.

#### 9. Name input field

Enter a registration name for the selected face.

# 10. Add button

Clicking the button will register the selected face image and name.

# 11. Registered face display area

The face image and name that have been registered will be displayed.

# 12. OK button

Activate the settings and close the window.

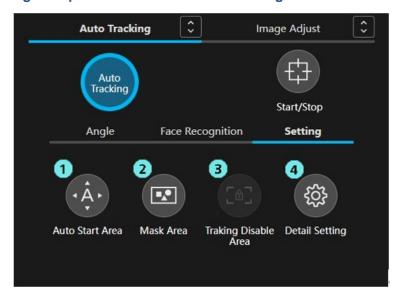
# 13. Cancel button

Cancel the settings and close the window.

# <NOTE>

- \*1: Images other than JPEG images cannot be loaded.
- \*2: The camera for which the [Select] button is clicked is selected by default.

#### **Setting the option functions of Auto Tracking**



This function is limited to PC Auto Tracking with the AW-SF100/200/202/203 license.

It does not work with Built-In Auto Tracking.

#### 1. Auto Start Area button

You can activate the Auto Start Area with this button. When you press this button, the camera moves to the initial position set on the Detail Setting window.

By left-clicking and dragging on the camera view, you can set an area where tracking will automatically begin when a human body is detected.

# 2. Mask area setting button

You can set the mask area (region in the camera view that is excluded from detection) for detecting the tracking target.

Set the mask area by left-clicking and dragging on the image screen.

A black rectangle is displayed in the set area. You can cancel the setting by pressing the × button inside the rectangle.

## 3. Tracking Disable Area button

Currently, you cannot enable the function of the Tracking Disable Area.

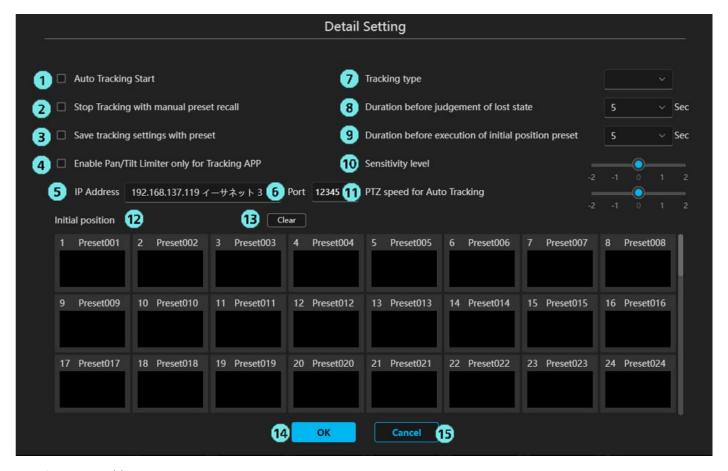
# 4. Detail Setting button

Click to open the Detail Setting window.

On this window, you can configure the settings for the tracking operation.

For details, refer to the "Detail Setting window" in this manual.

# **Setting the detailed functions of Auto Tracking**



#### 1. Auto Tracking Start

Set the operation to perform when a tracking target is detected.

If you tick this checkbox, the camera automatically starts tracking operation when a tracking target is detected.

#### 2. Stop Tracking with manual preset recall

Set the operation to perform when a preset is called.

If you tick this checkbox, the tracking operation will stop when a preset is called.

## 3. Save tracking settings with preset

Set the tracking operation to perform when a preset is called.

If Auto Tracking is ON and you tick this checkbox, the tracking operation settings for the items below will be saved for each preset. If the preset is called in the case Auto Tracking is ON and you tick this checkbox, the tracking operation settings saved for the preset will be called and updated.

Items of the MAIN screen

- Tracking Start/Stop
- Target Position (Full, Full Body, Upper Body)
- Target Size (Full, Full Body, Upper Body)
- · Angle (any one of Full, Full Body, Upper Body, OFF)
- •Face Recognition Target Face
- ·Face Recognition Auto Face Search
- · Auto Start Area
- ·Mask Area
- Tracking Disable Area (currently, this function is not supported)

Items of Detail Setting

- Auto Tracking Start
- ·Stop Tracking with manual preset recall
- ·Save tracking settings with preset
- Enable Pan/Tilt Limiter only for Tracking APP (including IP address, Port)
- Initial Position
- Tracking type
- ·Duration before judgement of lost state
- •Duration before execution of initial position preset
- ·Sensitivity Level
- •PTZ speed for Auto Tracking

### 4. Enable Pan/Tilt Limiter only for Tracking APP

The Pan/Tilt Limitation function is enabled only when this plugin function is running.

For details on the setting method, refer to [Setting the Pan/Tilt range] in this manual.

The Port No. is used for acquiring the Pan/Tilt position data, and the following settings are automatically configured for the remote camera unit.

(1) When Enable Pan/Tilt Limiter only for Tracking APP is turned ON

Turn ON the IP (UDP) belonging to the Tracking Data Output item in the Web browser Setup screen on the remote camera unit side, and set the IP address and Port of IP out Client4.

(2) When Enable Pan/Tilt Limiter OFF for Tracking APP is turned OFF

Disable IP out Client4 belonging to the Tracking Data Output item in the Web browser Setup screen on the remote camera unit side, and if Client 1 to Client 3 are disabled, turn OFF the IP (UDP).

\* The models on which this function can be enabled are AW-UE80, AW-UE100, AW-UE150, AWUE160 only.

#### 5. IP address

From the dropdown list, select the IP address of the network used with 4. Enable Pan/Tilt Limiter only for Tracking APP.

#### 6. Port

Enter the UDP port number used with 4. Enable Pan/Tilt Limiter only for Tracking APP. (You can set the port number in the range of 10000 to 65535)

You cannot set the same port number as another camera.

# 7. Tracking type

You can specify the type of the Auto Tracking function.

Either "PC GPU" or "Built-In" can be selected from the dropdown list.

"Built-In" can be selected only for models that support Built-In Auto Tracking.

\* The models that support Built-In Auto Tracking are AW-UE40, AW-UE50, and AW-UE80 only.

#### 8. Duration before judgement of lost state

Set the time (in seconds) that needs to pass without detecting the tracking target, after which the target is deemed lost.

You can set the time (in seconds) in the range of 1 to 30.

# 9. Duration before execution of initial position preset

Set the time (in seconds) that needs to pass before the camera position is returned to the preset position after the

tracking target is lost. You can set the time (in seconds) in the range of 1 to 30.

Select the registration of the preset position on 12. Initial Position screen.

# 10 Sensitivity Level

Set the sensitivity of the tracking operation of the camera with respect to the movement of the tracking target in the range of -2 to 0 to 2.

The higher the value the higher the sensitivity.

# 11 PTZ speed for Auto Tracking

Set the speed of the camera following the tracking target in the range of -2 to 0 to 2.

The higher the value the faster the speed.

# 12. Initial Position selection screen

Select which preset to move to when the tracking target is lost.

#### 13. Clear button

Cancel the preset selected on 12. Initial Position screen.

# 14. OK button

Activate the settings and close the window.

# 15. Cancel button

Cancel the settings and close the window.

# **Multiple Cameras Screen**

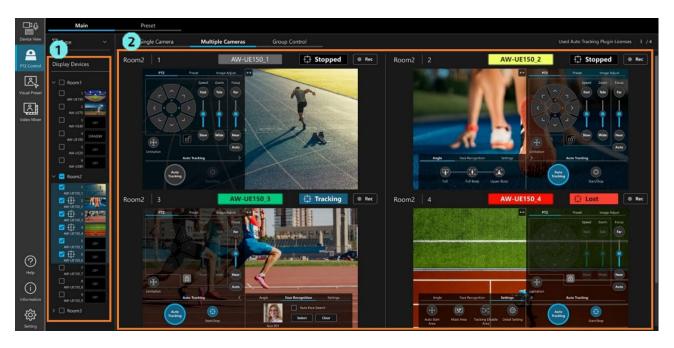
# **Screen Characteristics**

This screen displays operation screens for multiple remote cameras next to each other to operate them at the same time.

From this screen, you can:

- Operate pan, tilt and zoom
- Operate presets
- · Adjust focus/camera image quality
- Start/stop video recording
- Set and operate the auto tracking function

# **Screen Explanation**



#### 1. Camera selection area

Select the camera you want to operate from the tree on this screen.

Up to four cameras can be selected.

#### 2. Camera view area

The selected camera's live view and the camera controller are arranged and displayed next to each other.

The camera controller has PTZ, Preset and Image Adjust tabs. The functionality of each tab is the same as the

Single Camera Screen.

Additionally, if you can use the auto tracking function, the Auto Tracking tab will be displayed in the lower part of the camera controller. The Auto Tracking tab functionality is also the same as the Single Camera screen.

# <NOTE>

You can show/hide the camera controller by clicking the cross button on the camera controller.

# **Group Control Screen**

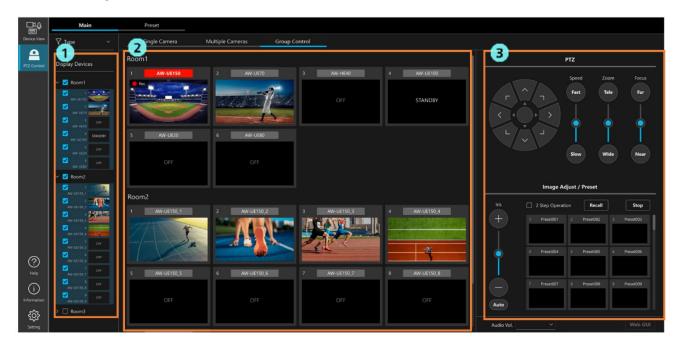
# **Screen Characteristics**

This screen allows you to have the same operation take place across multiple remote cameras simultaneously.

This screen allows you to perform the following operations simultaneously for multiple remote cameras.

- Operate pan, tilt and zoom
- Call a preset
- · Adjust focus/iris

# **Screen Explanation**



1. Camera selection area

Select the camera you want to operate from the tree on this screen.

Up to 16 cameras can be selected.

2. Camera view area

Displays the selected camera as a thumbnail.

3. Camera controller

It allows you to perform the same operation for all selected cameras.

The operation method of each part is the same as on the Single Camera screen.

# **Preset Screen**

# **Screen Characteristics**

This screen allows you to control a single or multiple remote cameras, primarily with presets.

The Single screen is optimized for the operation of a single camera, whereas the Multiple screen is optimized for the control of multiple cameras.

# **Screen Explanation**

Operations such as preset registration/deletion and speed settings, as well as camera controller operation are the same as the Single Camera Screen.

# Single screen



1. Display screen selection button

Switch between the Single screen and the Multiple screen.

2. Camera selection area

Select the camera you want to operate from the tree on this screen.

3. Preset register/delete button

Used when you are registering or deleting presets.

4. Home position call button

This will call the Home position of the camera.

#### 5. Preset update button

Loads the preset information for the selected camera and updates the screen display.

# 6. Preset list display area

Displays all presets for the selected camera.

# 7. Camera information display area

Displays the name and video of the selected camera.

#### 8. Preset speed, calling area

You can set the speed of presets and call them.

#### 9. Camera controller

You can pan, tilt and zoom cameras and control their image quality.

# Multiple screen



## 1. Display screen selection button

Switch between the Single screen and the Multiple screen.

#### 2. Camera selection area

Select the camera you want to operate from the tree on this screen.

Up to 16 cameras can be selected.

#### 3. Preset register/delete button

Used when you are registering or deleting presets.

# 4. Home position call button

You can call the Home position of the camera selected in the preset list display area.

# 5. Preset update button

You can load preset information for all cameras displayed in the preset list display area and update the screen displays in the list.

# 6. Preset list display area

Displays the thumbnail and all presets of the camera selected in the camera selection area.

#### 7. Camera information display area

Displays the name and live view of the camera selected from the preset list display area.

# 8. Preset speed, calling area

You can control the speed and calling of presets for the camera selected from the preset list display area.

# 9. Camera controller

You can pan, tilt and zoom cameras and image quality of the cameras selected from the preset list display area.

# Camera Operation Using Peripheral Devices

# **Operating Camera with a Keyboard**

You can perform various operations on the remote camera using a keyboard connected to the PC.

The operations assigned to keys are as shown below.

Key	Operation		
1	Call preset 1		
2	Call preset 2		
3	Call preset 3		
4	Call preset 4		
5	Call preset 5		
6	Call preset 6		
7	Call preset 7		
8	Call preset 8		
9	Call preset 9		
<b>↑</b>	Tilt camera upward		
$\downarrow$	Tilt camera downward		
←	Pan camera to left		
$\rightarrow$	Pan camera to right		
$\uparrow + \rightarrow$	Pan/tilt camera up and right		
$\rightarrow$ + $\downarrow$	Pan/tilt camera down and right		
↓+←	Pan/tilt camera to down and left		
←+↑	Pan/tilt camera up and left		
Shift + ↑	Tilt camera upward (high speed)		
Shift + ↓	Tilt camera downward (high speed)		
Shift + ←	Pan camera to left (high speed)		
Shift + →	Pan camera to right (high speed)		
Shift $+ \uparrow + \rightarrow$	Pan/tilt camera up and right (high speed)		
Shift $+ \rightarrow + \downarrow$	Pan/tilt camera down and right (high		
$SIIIII + \rightarrow + \downarrow$	speed)		
Shift $+ \downarrow + \leftarrow$	Pan/tilt camera to down and left (high		
Sillit ⊤↓ ⊤ ←	speed)		
Shift + ← + ↑	Pan/tilt camera up and left (high speed)		
Ctrl + ↑	Tilt camera upward (low speed)		

Ctrl + ↓	Tilt camera downward (low speed)		
Ctrl + ←	Pan camera to left (low speed)		
Ctrl + →	Pan camera to right (low speed)		
$Ctrl + \uparrow + \rightarrow$	Pan/tilt camera up and right (low speed)		
C4-1	Pan/tilt camera down and right (low		
$Ctrl + \rightarrow + \downarrow$	speed)		
Chul I I I I	Pan/tilt camera to down and left (low		
Ctrl + ↓ + ←	speed)		
Ctrl + ← + ↑	Pan/tilt camera up and left (low speed)		
Z	Zoom in, T side		
X	Zoom out, W side		
Shift + Z	Zoom in, T side (high speed)		
Shift + X	Zoom out, W side (high speed)		
Ctrl + Z	Zoom in, T side (low speed)		
Ctrl + X	Zoom out, W side (low speed)		
A 14 + A	Switch currently selected camera to		
Alt + ↑	previous one		
A 14	Switch currently selected camera to next		
Alt + ↓	one		

Key	Operation	
Shift + S	Switches between Tracking Start/Stop	
Shift + P	Pauses tracking while the key is pressed	
	Returns the Target Position of the	
Shift + D	currently set angle to the initial position	
	(supported only for PC Auto Tracking)	

# **Function Restrictions by Role**

# **List of Function Restrictions by Role**

Among the roles Administrator, Super User, and User, the User role is subject to restrictions on the functions available for

Functions indicated with a circle (o) in the table below are available for use.

		Administrator	Super User	User
Operable cameras		All	All	Only authorized cameras
PTZ	Pan/Tilt	0	0	0
	Zoom	0	0	0
	Pan/Tilt Limitation	0	0	
Preset operation	Preset registration	0	0	
	Preset deletion	0	0	
	Preset call	0	0	0
	Cancel preset call	0	0	0
	Update preset display	0	0	0
	Set preset name	0	0	
	Set preset speed units	0	0	0
	Set preset speed	0	0	0
	Call Home position	0	0	0
	Focus	0	$\circ$	0
Adjust focus/camera image quality	Iris	$\circ$	$\circ$	0
	Gain	0	$\circ$	
	White Balance	0	$\circ$	
	AWB/ABB	$\circ$	$\circ$	
	Shutter	0	$\circ$	
	ND Filter	0	$\circ$	
Other operations	Start/stop video recording	0	0	0
	Adjust audio volume	0	0	0
	Display the camera web screen	0	0	0
	Auto Tracking Function ON/OFF	0	0	0
Auto Tracking Function	Tracking Start/Stop	0	0	0
	Angle setting	0	0	0