

Integrated Software Operation Manual (Auto Tracking Function)

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Description in this manual

Trademarks and registered trademarks

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- Other names of companies and products contained in the text may be trademarks or registered trademarks of their respective owners.

About the description in this manual

- The illustrations and screenshots within this manual may differ from actual items.
- In this manual, a personal computer is described as “PC”.
- This software means the PC software for Media Production Suite.
- This plugin means the Auto Tracking plugin.
- This function means the functions to be used for Auto Tracking plugin.

About the Auto Tracking Function

Functions

This plugin provides the following two functions:

- Auto Tracking function using PTZ control
- Auto Crop Tracking function using Crop control

Each function has its own characteristics. Please select and use the appropriate function according to your operating environment and application.

Main features of Auto Tracking function

The main features for Auto Tracking function are as follows.

1. Person tracking assistance

This feature assists you to track persons in the video being captured by PTZ camera.

Deep learning technology automatically enables stable tracking by detecting the human body and recognizing the face of a specified person.

2. Simultaneous tracking using multiple PTZ cameras

A single PC can simultaneously control up to 8 PTZ cameras for automatically tracking the target.

3. Automatic detection of the target for tracking

This feature can automatically detect and track the faces of people captured by PTZ cameras.

4. Detailed angle settings and recall for tracking targets

This feature can set in detail the position and size of the tracking target in the camera's view for 3 types of tracking angles (Full, Full Body, Upper Body).

You can recall preset angles with a single click, and the camera will automatically adjust the pan, tilt, and zoom to maintain the set angles, even if the tracking target moves forward, backward, left, or right relative to the camera.

5. Bulk monitoring / control of multiple devices

You can simultaneously monitor and manage the images and tracking states of up to four PTZ cameras on a single screen, and perform operations such as compensation when the tracking target is lost.

<NOTE>

- Since this plugin uses image processing, false detections of tracking targets may occur.
Please use this plugin in an environment where an operator can perform correction tasks for false detections.

Main features of Auto Crop Tracking function

The main features for Auto Crop Tracking function are as follows.

1. Person tracking assistance
This feature assists you to track persons in the video being captured by PTZ camera by automatically controlling the Crop frame. Deep learning technology automatically enables stable tracking by detecting the human body and recognizing the face of a specified person.
2. High robustness against target loss
Even if the subject temporarily moves out of the cropped image, the tracking target is less likely to be lost because detection is always performed on the full image captured by the camera.
3. Automatic control of up to 3 Crop frames with a single PTZ camera
Up to 3 Crop frames can be automatically controlled using a single PTZ camera.
You can track the same person with different angles, or track up to three different persons independently.
However, only one Crop frame can be output at a time.
4. Simultaneous tracking using multiple PTZ cameras
A single PC can simultaneously control up to 8 PTZ cameras for automatically tracking the target.
For example, you can use the Auto Crop Tracking function with two PTZ cameras and the Auto Tracking function with six PTZ cameras simultaneously.
5. Automatic detection of the target for tracking
This feature can automatically detect and track the faces of people captured by PTZ cameras for each Crop frame.
6. Detailed angle settings and recall for each Crop frame
For each Crop frame, you can set in detail the position and size of the tracking target for three tracking angles (Full, Full Body, Upper Body).
The angle can be recalled with one click, and even if the tracking target moves back and forth or left and right relative to the camera, the camera automatically adjusts the horizontal/vertical position and zoom of the Crop frame to maintain the specified angle, even if the tracking target moves.
7. Switching video output
You can switch the video output between the full image captured by the camera and 3 cropped images for the specified video output destination (e.g. SDI, NDI, IP2).
This enables you to build a simple video switching system using a single camera.

<NOTE>

- Since this plugin uses image processing, false detections of tracking targets may occur.
Please use this plugin in an environment where an operator can perform correction tasks for false detections.

Recommended use cases

- Auto Tracking function

Since this function uses PTZ control, it can track subjects over a wide movement range with relatively few restrictions. It is suitable for general-purpose applications. However, for applications involving rapid or intense movements, such as sports, it is recommended to check the image quality in advance using a trial license.

Examples:

- Lectures
- Conferences
- Corporate presentations

- Auto Crop Tracking function

Since this function uses Crop control, it is recommended for environments where the movement range of subjects is relatively limited and fixed. It is also suitable for situations where multiple persons need to be captured simultaneously.

Examples:

- Panel discussions
- Talk shows
- News programs

Operational Requirements

This plugin requires the following environment.

■ PC

- Hardware (Required)

CPU:

When the number of cameras simultaneously operating with the Auto Tracking function is up to 4:

4 or more cores, the PassMark score of 7,000 or higher

- Recommended CPU

Intel Core i7-7700K

Intel Core i7-4770K

Intel Core i7-8750H

Intel Core i7-11800H

Intel Core i7 13700/14700

Intel Core i9 13900/14900

When the number of cameras operating with the Auto Tracking function is up to 8:

4 or more cores,

2 CPUs with a PassMark score of 7,000 or higher (Dual CPU)

Or 1 CPU with the PassMark score of 18,000 or higher

- Recommended CPU

Intel Core i7-10700K

Intel Core i7-11800H

Intel Core i7 13700/14700

Intel Core i9 13900/14900

GPU: NVIDIA GPUs with Turing, Ampere, Ada Lovelace or Blackwell architecture *3 *4 *5

Table of the number of cameras that can simultaneously operate Auto Tracking for each GPU model *6

Auto Tracking Simultaneous operation Number of cameras	NVIDIA GPU architecture generation			
	Turing	Ampere	Ada Lovelace	Blackwell
1	GeForce RTX2050 or higher Quadro RTX4000 or higher	GeForce RTX3050 or higher RTX A2000 or higher	GeForce RTX4050 or higher RTX2000 Ada or higher	GeForce RTX5050 or higher RTX PRO 2000 Blackwell or higher
2	GeForce RTX2050 or higher Quadro RTX4000 or higher	GeForce RTX3050 or higher RTX A2000 or higher	GeForce RTX4050 or higher RTX2000 Ada or higher	GeForce RTX5050 or higher RTX PRO 2000 Blackwell or higher
4	GeForce RTX2060 or higher Quadro RTX4000 or higher	GeForce RTX3060 or higher RTX A4000 or higher	GeForce RTX4050 or higher RTX2000 Ada or higher	GeForce RTX5050 or higher RTX PRO 2000 Blackwell or higher
8	GeForce RTX2080Ti	GeForce RTX3070 or higher RTX A4500 or higher	GeForce RTX4070 or higher RTX4500 Ada or higher	GeForce RTX5070 or higher RTX PRO 3000 Blackwell or higher

Memory: 16 GB or more

Display: 1920 x 1080 or higher

Storage: 16 GB or more free space

• Software

Web browser: Microsoft Edge, Google Chrome

<Precautions>

- *1: Ensure that you use this plugin with the Windows OS installed to the C drive of the PC.
- *2: The supported OS languages are Japanese, English, and Chinese only.
- *3: **To use this plugin, it is necessary to update to the latest GPU driver version compatible with the installed GPU from the official NVIDIA website.**
- *4: NVIDIA GPUs with Pascal architecture or earlier are not guaranteed to work.
- *5: The required GPU models are the minimum specifications necessary for operating the Auto Tracking function. Especially when a large number of cameras are operating Auto Tracking simultaneously, the higher the GPU model listed in the table, the better the Auto Tracking performance.
- *6: Using two GPUs that support 4 cameras simultaneously with Auto Tracking can allow 8 cameras to operate simultaneously.

■ Client (Browse device)

- OS

Windows 11

Windows 10 64bit (Version 21H2 or later)

macOS 13 (Ventura) or later

iPad OS 16 or later

- Hardware

Display: 1920 x 1080 or higher (Other than iPad)

- Software

Web browser: Microsoft Edge, Google Chrome

■ Supported PTZ cameras for Auto Tracking function

Auto Tracking function supports the following PTZ cameras of Panasonic.

AW-UE160/UE163, AW-UE150A/UE158/UE148, AW-UE150/UE155/UN145, AW-HE145,
AW-UE100, AW-UR100, AW-UE80/UE83, AW-UE50/UE53, AW-UE40/UE43, AW-UE30,
AW-HE40/HN40/HE35/HE38/HN38/HE65/HN65/HE48/HE58/HE70/HN70,
AW-UE70/UN70/UE65/UE63, AW-HE75/HE68/HE42, *AW-UE20, *AW-HE20

(As of June 2025)

The latest supported models can be found in the pages of Auto Tracking for Media Production Suite (AW-SF100G.SF200G/SF202G/SF203G) from the following website.

<https://connect.panasonic.com/en/>

■ Supported PTZ cameras for Auto Crop Tracking function

Auto Crop Tracking function supports the following PTZ cameras of Panasonic.

(Only models equipped with the Crop function are supported.)

AW-UE160/UE163, AW-UE150A/UE158/UE148, **AW-UE150/**UE155/**UN145, AW-UE100, AW-UR100

(As of November 2025)

<NOTE>

- Please ensure that the firmware of the PTZ camera is updated to the latest version.

You can download the firmware from the following website:

<https://eww.pass.panasonic.co.jp/pro-av/support/content/download/EN/top.html>

- A wired LAN connection is recommended for the network connection between the PC with this software installed and the PTZ camera. When connected via wireless LAN, sufficient tracking performance may not be achieved, experiencing frequent loss of the tracking target and other issues.
- Some models listed in the supported PTZ cameras are not sold in some regions. Also, models marked with * (AW-UE20, AW-HE20) have limited tracking performance compared to higher-end models such as AW-UE30 and above.
- For models marked with ** (AW-UE150/UE155/UN145), the zoom ratio of the Crop frame is fixed. Therefore, angle settings using auto zoom cannot be performed.

About the license

This plugin is a paid feature.

You can use the plugin for free during the 90-day trial period starting from the beginning of the trial, but after the trial period, you will need to purchase a key code (license) for activation.

For details, please refer to the section of “[Procedures for using the functions](#)” in this document.

Handling of personal information registered on this plugin

Our company does not collect, store, or share any personal information, such as individual facial photos, registered on this plugin within our organization. Any information registered on this plugin is stored only in the environment where the plugin is installed (PC, server) and is not saved elsewhere.

Procedure for Using the Function

About the Procedure for Using the Function

This function is a paid plugin.

You can use the functions for free during the 90-day trial period. However, to continue using the functions after the trial period, you need to purchase a paid license (key code) and perform activation.

The procedure for starting the free trial and activating the license is performed by the Information function of this software.

With the Information function, you can:

- Start the free trial of this function
- Activate/deactivate the license for this function
- Check the license status for this function
- Install this function
- Update this function

Starting the Free Trial

After registering for starting the trial, you can use the Auto Tracking function for 90 days for free.

For instructions on how to start a trial, please refer to "Manage Paid Plugins" → "Starting the Free Trial" in the Information Function Operating Manual.

Activating the License

By purchasing a paid license and performing activation, you can use the Auto Tracking function indefinitely.

For activation procedures, refer to "Manage Paid Plugins" → "Activating the License" in the Information Function Operating Manual.

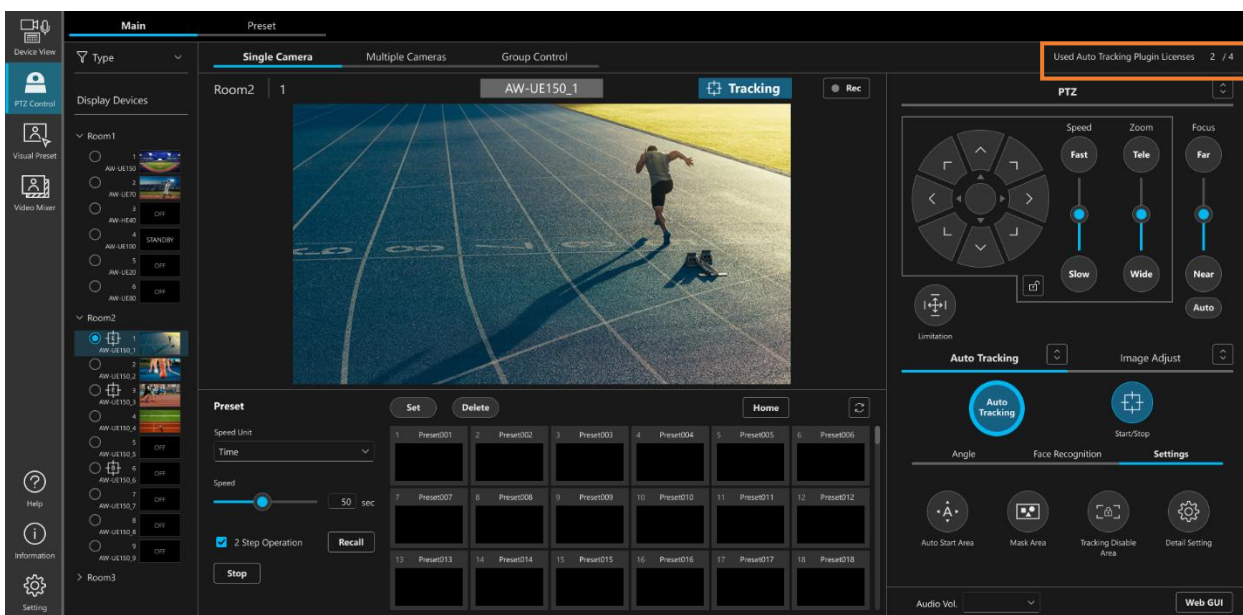
***The PC must be connected to the Internet.**

If you have not signed up for the free trial, it is recommended to complete the process in an environment with a good network connection, as approximately 2GB of data will be downloaded.

When the process completes successfully, the License Status will change to [Activated], and the number on the right side of the Used Auto Tracking Plugin Licenses in the top right corner of the [PTZ Control] screen in the function selection area on the left side of the screen will be updated. The number on the left indicates the current number of cameras using the Auto Tracking function, and the number on the right indicates the maximum number of cameras that can use the Auto Tracking function (total number of activated licenses).

It takes a maximum of 1 minute for the request to be processed and reflected.

Used Auto Tracking Plugin Licenses 0 / 1



Maximum number of simultaneous cameras for Auto (Crop) Tracking / Auto

Crop Tracking function

This plugin can connect to multiple PTZ cameras and perform tracking operations for each of them. However, there is a limit to the number of cameras that can operate simultaneously.

The maximum number of simultaneously operating cameras is determined by whichever is smaller of the A and B below.

A: The maximum number of simultaneously operating cameras for this plugin: 8 is the upper limit.

B: The limit imposed by the license: It is the total number of units defined for each license.

For AW-SF100 during the trial period: 1 camera

For AW-SF200 during the trial period: 7 cameras

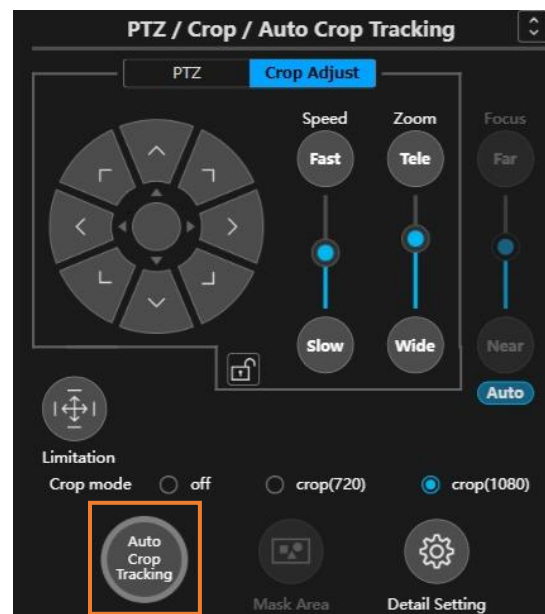
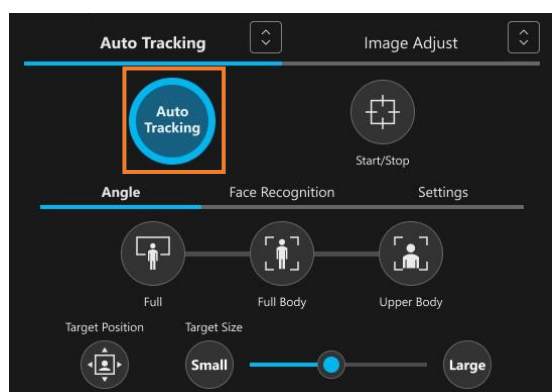
When AW-SF100 have been activated: 1 camera

When AW-SF200 have been activated: 1 camera

When AW-SF202 have been activated: 2 cameras

When AW-SF203 have been activated: 3 cameras

If you attempt to operate this function beyond these limits, an error message will be displayed. In such cases, please click the [Auto Tracking] button (lower-left area of Single Camera (PTZ) screen) or the [Auto Crop Tracking] button (lower-right of Single Camera (Crop) screen) of the currently operating cameras to disable the function.



<NOTE>

- The license usage status is displayed in the top right corner of the PTZ Control screen, either on the Single Camera or Multiple Cameras Screen, in the format “Used Auto Tracking Plugin Licenses: X / Y”.

The number on the left indicates (X) the current number of cameras using the Auto Tracking function, and the number on the right indicates (Y) the maximum number of cameras that can use the Auto Tracking function (total number of activated licenses).

Deactivating the License

If you wish to transfer a license to another PC, you must first deactivate the license on the PC on which the license is currently activated.

For deactivation procedures, refer to " Manage Paid Plugins " → "Deactivating the License" in the Information Function Operating Manual.

Checking the License Status

The license status can be checked on the Information function screen.

For the procedure, please refer to " Manage Paid Plugins " → " Checking the license status" in the Information Function Operating Manual.

Installation of the plugin data

If the license status is [In Trial] or [Activated] and the plugin data for this function is not installed on your PC, you will need to install the plugin data.

For instructions, please refer to "Manage Paid Plugins" -> "Installation of the plugin data" in the Information Function Operating Manual.

Update of the plugin data

If the license status is [In Trial] or [Activated] and new plugin data is available on the website, you can update the plugin data from the Information screen.

For instructions, refer to "Manage paid plugins" -> "Updating plugin data" in the Information function operating instructions.

PC Hardware Settings

About the PC Hardware Settings

Before using this function, make the following settings on the PC on which this software is installed.

- Network connection for PC
- Network adaptor settings for PC
- Power adaptor connection for PC (laptop PC only)
- PC power plan settings (laptop PC only)
- Installation of NVIDIA GPU

Network connection for PC

When using this plugin, it is recommended to use a wired LAN connection between the PC with the software installed and the PTZ camera. On a wireless LAN connection, you may experience performance degradation, resulting in issues such as losing the tracking target more frequently.

Network adaptor setting for PC

When using this plugin, it is recommended to turn off or disable the power-saving settings on the PC's network adapter. If you use this plugin with power-saving settings enabled, issues such as video interruptions may occur, which can affect the tracking performance.

Configure the settings according to the procedure below.

1. Open "Search" from the Start menu of Windows, and enter "Device Manager" in the search box.
2. Device Manager will be displayed in the search results. Click it to open the Device Manager.
(You can also open Device Manager by right-clicking the Windows Start button and selecting Device Manager from the list)
1. Double-click the Network Adapters item in Device Manager. Expand the dropdown list of network adapters.
2. Right-click on the network adapter used by this software, then select Properties from the list to open the network adapter properties screen.
3. Click the [Advanced Setting] tab and change the settings for the following items.
 - (1) Set the Power Saving Ethernet property to Off.
 - (2) Set the Low Power Mode property to Disabled.
4. Click the [OK] button.

Power adaptor connection for PC (laptop PC only)

If this software is installed on a laptop PC, it is recommended to use a power adapter. On a PC running on batteries instead of a power adapter, you may experience performance degradation, resulting in issues such as losing the tracking target more frequently.

Installation of NVIDIA GPU

When using this plugin, the NVIDIA GPU must be installed on the PC on which this software is installed.

Use the latest driver (Game Ready driver) that can be downloaded from the NVIDIA website as the driver of the NVIDIA GPU. If the driver is of an old version, this function may not work properly.

<NOTE>

- For details on the recommended models of the NVIDIA GPU, refer to “[Operational Requirements](#)” in this document.
- To use this plugin, it is necessary to update to the latest GPU driver version compatible with the installed GPU from the official NVIDIA website.

Automatic setting of PTZ cameras

Automatic setting items

This software automatically changes the following settings on the PTZ camera itself:

- JPEG Setting (from the camera's web interface: Setup -> Video over IP -> JPEG Settings)

- JPEG(1)

- JPEG transmission: On

- Image capture size : 1280x720 *1/*2

- Refresh interval: With NTSC: 30fps, With PAL:25fps

- Image quality : fine *3

- Crop Setting *4

- IP (H.264/H.265) OUT1 [FULL, CROP]: FULL

- Video Output Source Setting *5

- Output source (IP/NDI|HX): 3G SDI2

<NOTE>

- *1: For the following models, the Image capture size for JPEG(1) will be set to 640x360.

- AW-UE20, AW-HE20

- *2: Depending on the model settings (NDIHx, etc.), the Image capture size for JPEG(1) will be set to 640x360.

- *3: For the following models, the Image Quality setting for JPEG(1) will be set to Normal.

- AW-UE70/UN70/UE65/UE63, AW-HE75/HE68/HE42

- *4: This setting is automatically applied only to the models equipped with the Crop function listed below.

- AW-UE160/UE163, AW-UE150A/UE158/UE148, AW-UE150/UE155/UN145, AW-UE100, AW-UR100

- (As of November 2025)

- *5: This setting is automatically applied only when using the models listed below and

- when the UHD Crop Mode is set to [Crop(1080)] or [Crop(720)].

- AW-UE150A/UE158/UE148 (as of November 2025)

Automatic setting items when Auto Tracking function is enabled

When Auto Tracking function is enabled, the following settings on the PTZ camera are automatically changed:

The following automatic settings are designed to optimize the performance of the Auto Tracking function. *5

- Pan/Tilt settings (from the camera's web interface: Setup -> System -> Pan/Tilt Settings)
 - Pan/Tilt Speed Mode: Normal *6
 - Speed With Zoom Position: Off

- Lens settings (from the camera's web interface: Setup -> Lens Settings)
 - Zoom Mode: Opt Zoom
 - Digital Extender: Off

- Built-in Auto Tracking function (from the camera's web interface: Auto Tracking Settings) *7
 - Auto Tracking: OFF
 - Tracking: Stop
 - Angle: OFF

<NOTE>

*5: If there are issues with the Auto Tracking performance, please set FrameMix to OFF

from the camera's web interface. The FrameMix setting has a significant impact on the camera's image quality, so it is not configured automatically.

However, setting FrameMix to OFF can maximize the performance of the Auto Tracking function.

*6: For the following models, the Pan/Tilt Speed Mode will be set to Quick.

AW-UE150/UE155/UN145, AW-HE145

*7: The following models do not support the Built-In Auto Tracking function, so there is no Auto Tracking item on the camera's web interface and it cannot be set.

AW-UE160/UE163, AW-UE150/UE155/UN145, AW-UE100, AW-UR100, AW-UE70/UN70/UE65/UE63,
AW-HE145, AW-HE75/HE68/HE42, AW-HE40/HN40/HE35/HE38/HN38/HE65/HN65/HE48/HE58/HE70/HN70,
AW-UE20, AW-HE20

(As of June 2025)

Automatic setting items when Auto Crop Tracking function is enabled

When Auto Crop Tracking function is enabled, the following settings on the PTZ camera are automatically changed:

The following automatic settings are designed to optimize the performance of the Auto Crop Tracking function.

- Built-in Auto Tracking function (from the camera's web interface: Auto Tracking Settings) *8

Auto Tracking: OFF

Tracking: Stop

Angle: OFF

<NOTE>

*8: The following models do not support the Built-In Auto Tracking function, so there is no Auto Tracking item on the camera's web interface and it cannot be set.

AW-UE160/UE163, AW-UE150/UE155/UN145, AW-UE100, AW-UR100, AW-UE70/UN70/UE65/UE63,

AW-HE145, AW-HE75/HE68/HE42, AW-HE40/HN40/HE35/HE38/HN38/HE65/HN65/HE48/HE58/HE70/HN70,

AW-UE20, AW-HE20

(As of June 2025)

Screens

Screens

This plugin uses the following four screens:

- Device Manager Screen

This screen is used for adding and removing devices, including PTZ cameras.

For more details, please refer to the Device Manager Function User Manual.

- PTZ Control Screen

This is the main screen for operating, monitoring, and managing the Auto Tracking / Auto Crop Tracking functions of the plugin.

On this screen, you can start/stop Auto Tracking and Auto Crop Tracking, set angles, configure face recognition, and perform various detailed settings.

- Information Screen

This screen is used for license management and installation of the plugin.

For more details, please refer to the "[Procedures for Using Functions](#)" section of this document and the Information Function User Manual.

- Setting screen

This screen is used for setting up face recognition data and configuring the GPU used by the plugin.

For more details, please refer to the Setting Function User Manual.

Auto Tracking control

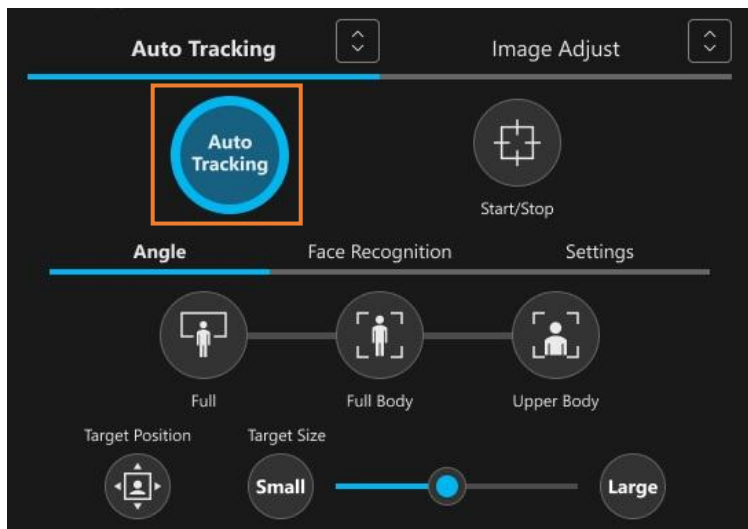
Registering the PTZ Camera

To use the functions of this plugin, you must register the Panasonic PTZ camera on the Device Manager function screen of this software.

For details on the registration procedure, refer to “Registering a Device” in the operation manual of the Device Manager function.

The following sections describe operations for the Single Camera Screen within the PTZ Control Screen, but similar operations can also be performed in the Multiple Cameras mode.

Enabling / disabling Auto Tracking function



After registering the PTZ camera, navigate to the Single Camera Screen in the PTZ Control Screen.

Left-clicking the [Auto Tracking] button in the [Auto Tracking] tab enables/disables the Auto Tracking function for the displayed PTZ camera. *1 *2

By enabling the Auto Tracking function, a person box is displayed if the person is detected in the camera view.

Each time the Auto Tracking feature is enabled for a PTZ camera, one Auto Tracking license will be consumed and the display in the top right corner of the PTZ Control Screen will be updated.

Used Auto Tracking Plugin Licenses 0 / 1

<NOTE>

*1 If the tracking type item is set to "Built-In" in the window that is displayed by clicking the [Detail Setting] button on the [Setting] tab, or if the number of licenses in use exceeds the total number of activated licenses for this plugin, the Built-In Auto Tracking feature will be enabled.

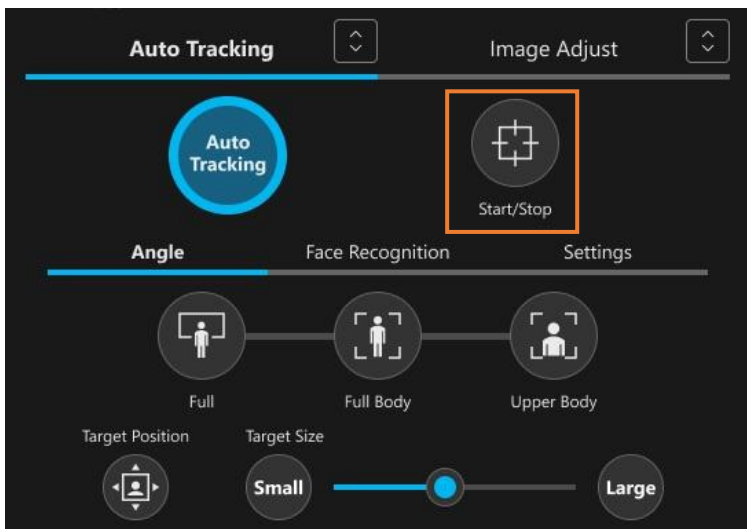
If the Built-In Auto Tracking function is enabled, the license for this plugin is not used.

*2: The models with the Built-In Auto Tracking function are below:

AW-UE30/40/43/50/53/80/83/150A/158/148

For other models, if the number of licenses in use exceeds the total number of activated licenses for this plugin, left-clicking the [Auto Tracking] button will display an error message, and the Auto Tracking feature cannot be enabled.

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 box in the figure above) in the Auto Tracking control panel of the camera controller.

To stop the tracking process, perform the following operations.

1. Untick the Auto Tracking Start checkbox (✓) in the Detail Setting window.
2. Set the [Tracking Start/Stop] button to the OFF state (gray).
3. The tracking process will be stopped.

<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 tracking target and start tracking

The tracking target can be automatically detected, and tracking can begin accordingly.

Once the tracking process starts, only the box color of the tracking target's body will change to blue. The box color for non-tracking targets will remain black.

• When setting the tracking target automatically

The following triggers are available for setting the tracking target automatically:

1. Detecting a person within the camera's view.
2. Using the face recognition feature to detect the face of a designated person.

Configure the settings according to the procedure below.

- When tracking a specific person
 - 1) Click the [Select] button on the [Face Recognition] tab to open the Select Face screen.
 - 2) On the Select Face screen, select the face data of the person to be tracked and click the [OK] button to close the Select Face screen. *1
 - 3) The tracking process will start when the designated face is detected in the camera view.
- When detecting any persons registered in the face database as tracking targets
 - 1) Check the Auto Face Search option.
 - 2) When any registered face data is detected within the camera view, the tracking process will start. The smaller the face data ID in the Setting - Face Recognition screen, the higher the detection priority.
- 3. Using the Auto Start Area function to detect a person within a specified range
Refer to the "[Setting the Auto Start Area](#)" section in this document for setting details.

The tracking target can be automatically detected by any of the above triggers.

In this state, setting the [Tracking Start/Stop] button to ON will enable the Pan/Tilt function of the PTZ camera, and the tracking operation will begin. *2

• When setting the tracking target manually

The following triggers are available to manually set the tracking target:

1. Left-clicking on a body box within the camera's view
2. Double left-clicking on a face box within the camera's view for temporary face registration
The face data at the double left-clicked location will be set as the source for face recognition.
This face data will not be saved. To clear the set face data, left-click the [Clear] button on the [Face Recognition] tab.

The tracking target can be manually detected by any of the above triggers.

In this state, setting the [Tracking Start/Stop] button to ON will enable the Pan/Tilt function of the PTZ camera, and the tracking operation will begin. *2

<NOTE>

*1: The face data settings for the face recognition function are remembered for each camera.

*2: If the Auto Tracking Start checkbox (✓) is ticked in the window displayed with the [Detail Setting] button on the [Setting] tab, the PTZ camera's Pan/Tilt operation will automatically be enabled as soon as the tracking target is detected.

Changing the tracking target

To change the tracking target during tracking operations, follow these steps.

- **When using the face recognition function**

1. Left-click the [Select] button on the [Face Recognition] tab to display the Select Face screen.
2. On the Select Face screen, select the face data of the new person you want to track and click the [OK] button to close the Select Face screen.
3. When the new tracking target's face is detected in the camera view, the tracking process for the newly detected target will begin.

<NOTE>

- If the face 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 face recognition. This face data will not be saved.
 - To clear the set face data, click the [Clear] button.
 - The Face recognition may not work if the face of subject is too small for the angle of view.
- **When not using the face recognition function**

Left-click on the detected body box within the camera view.

The body box at the left-clicked position will become the new tracking target, and the tracking process will start.

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

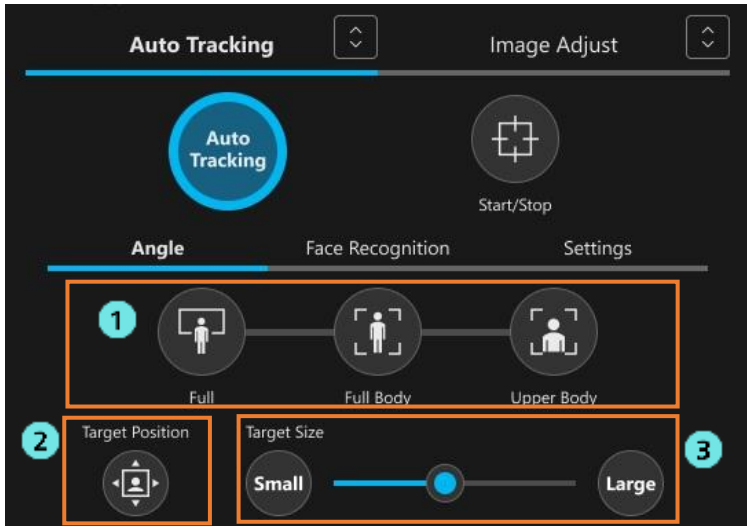
Stopped

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 Manager function.

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.

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.

• **Setting the Target Position**

Configure the settings according to the procedure below.

1. Click the desired angle button ([Full], [FullBody], or [UpperBody]) within the [Angle] tab. *1
The zoom is adjusted with regard to the default position so that the tracking target is in the specified position below:
If no settings have been made: initial position, if settings have been made before: previously set position
2. Left-click the [Target Position] button within the [Angle] tab. *1
3. A black cross mark and a white frame will be drawn within the camera view.
The cross mark indicates the position above the head of the tracking target, and the white frame indicates the range within which the position above the head can be specified.
4. Left-click within the camera view to change the position of the tracking target within the field of view.
The position of the tracking target is saved for each angle.

• **Setting the Target Size**

Configure the settings according to the procedure below.

1. Left-click the desired angle button ([Full], [FullBody], or [UpperBody]) within the [Angle] tab. *2
The zoom is adjusted with regard to the default position so that the tracking target is the specified size below:
If no settings have been made: initial size, if settings have been made before: previously set size
2. In the [Angle] tab, you can change the size of the tracking target by either clicking the [Target Size] ([Small] or [Large]) button within the [Angle] or doing drag and drop of the [Target Size] slider.
This size setting for the tracking target is saved for each angle.

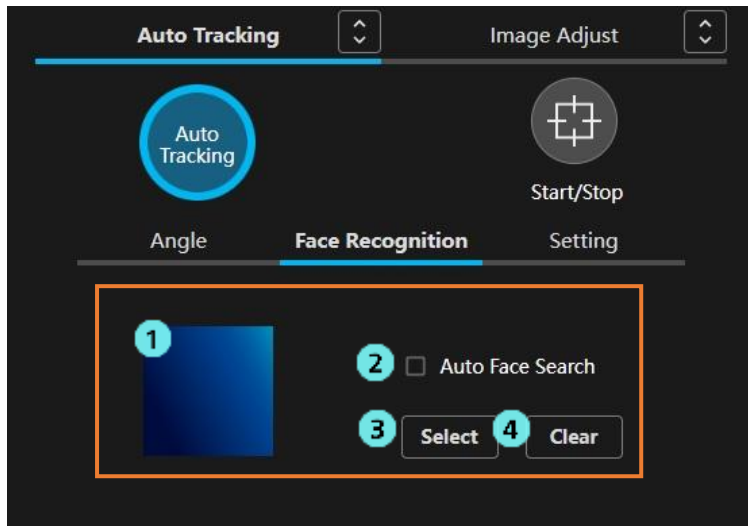
<NOTE>

*1: When the [Target Position] button is ON and none of the angle buttons are ON, you can left-click within the camera view to change the position of the current tracking target.

At the time, you will need to manually turn ON the [Tracking Start/Stop] button to start the tracking process.

*2: To configure angle settings, there must be a person present within the field of view.

Configuring the operation of the Face recognition function



1 . Display the set face

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

2 . Auto Face Search checkbox

If you tick this checkbox, the face of the person registered for face 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 face recognition.

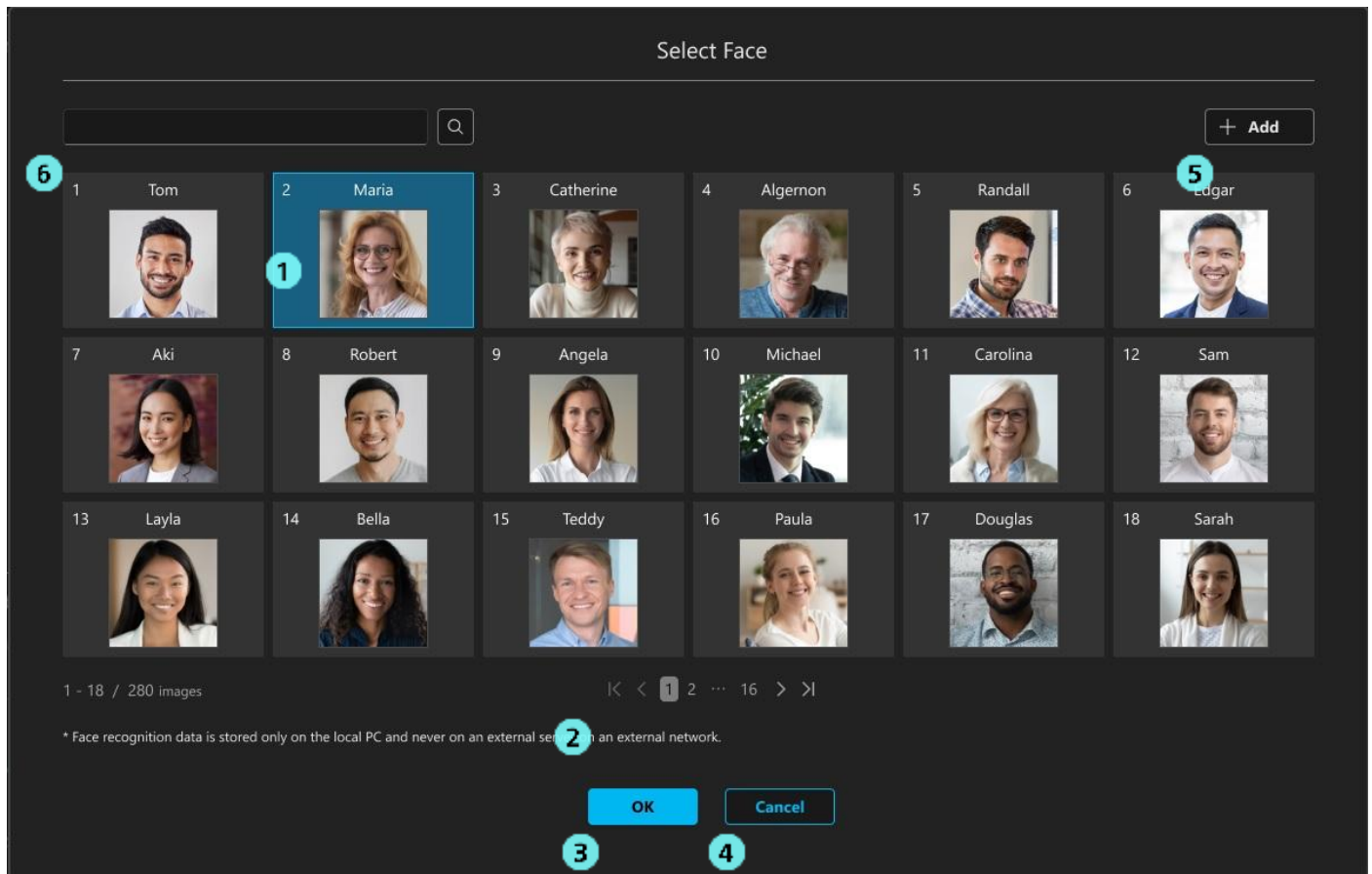
4 . Clear button

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

<NOTE>

- If the face 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 face recognition. This face data will not be saved.
- The Face 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

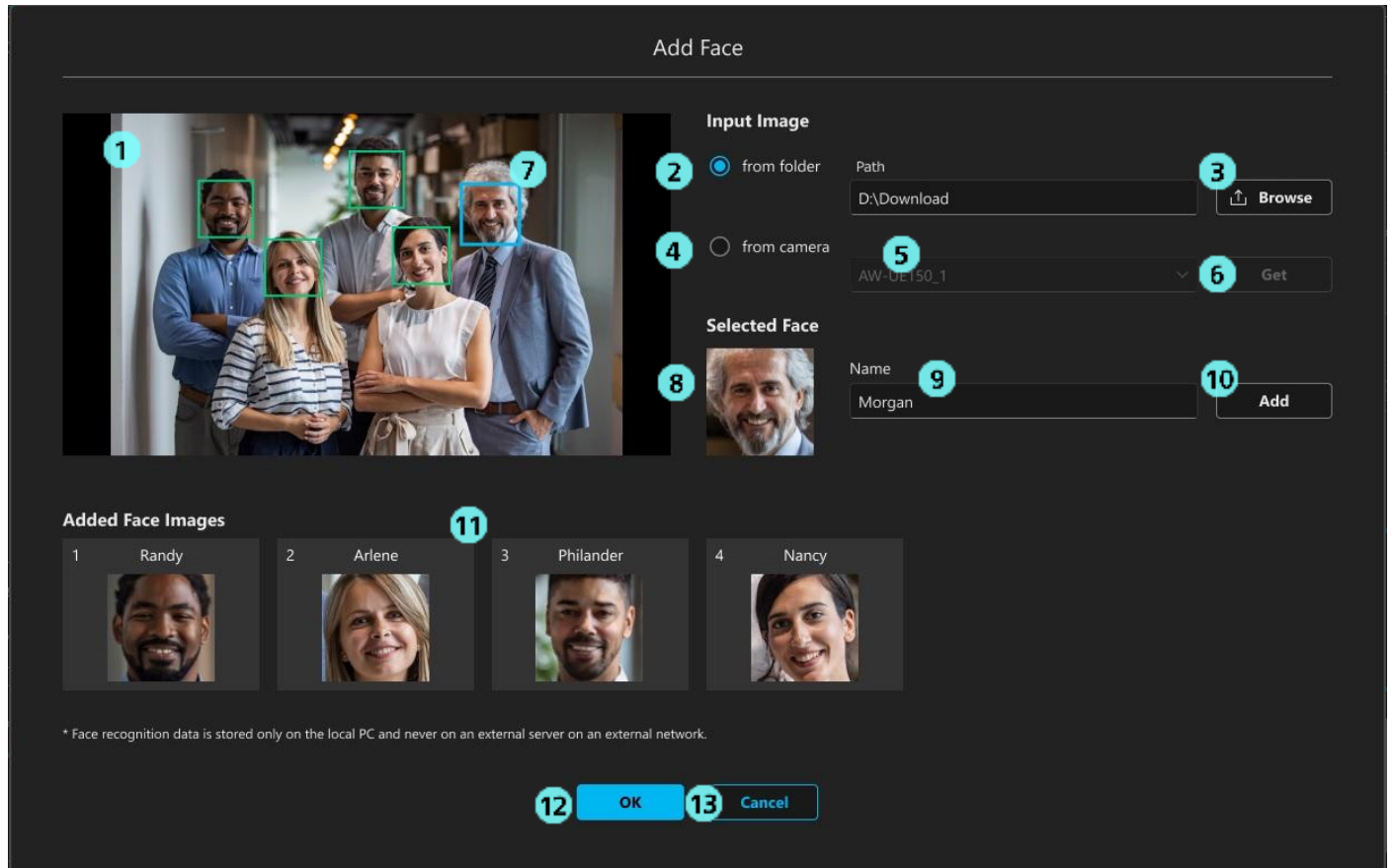
You can search for registered face data by entering a name.

Search results are displayed in a list display.

- **Selecting the target face**

- a. From [1. Face data list display], left-click the face image of the person to be tracked to set it to the selected state.
- b. By left-clicking the [3. OK] button, the selected person will be set as the tracking target.

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 box

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

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

8. Face image display

The image of the selected face is displayed.

9. Name input field

Enter a registration name for the selected face. *3

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.

• Adding the face data

- a. Select the input source image by left-clicking either the [2. Folder] button or the [4. Camera] button.
- b. (i) When the [2. Folder] button is selected
Left-click the [3. Browse] button, and select one JPEG image stored on the PC that contains the face of the person you want to register.
- (ii) When the [4. Camera] button is selected
From the [5. Camera selection] box, left-click to select the camera that captures the face of the person you want to register, and then left-click the [6. Get] button.
- c. The image loaded in step b is displayed in the [1. Image display area], and the [7. Face detection box] is displayed on the image. *4
- d. From the [7. Face detection box], left-click one face of the person you want to register to set it to the selected state. Only the selected face box is displayed in blue, and the face image is shown in the [8. Face image display] area.
- e. Enter the name you want to register in the [9. Name input field].
- f. Left-click the [10. Add] button to display the face image in the [11. Registered face display area].
- g. By repeating steps a through f, additional face data can be added to the [11. Registered face display area].
- h. By left-clicking the [12. OK] button, all face data displayed in the [11. Registered face display area] will be registered.

<NOTE>

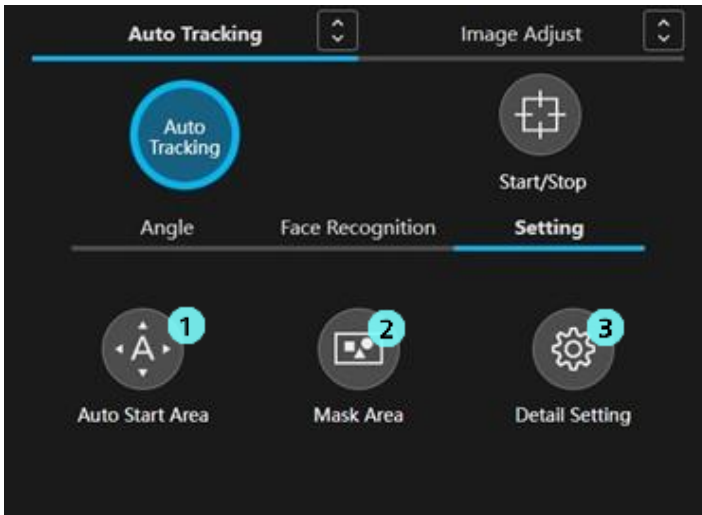
*1: Only JPEG images can be loaded.

*2: By default, the camera selected when the [Select] button was clicked is used.

*3: If the registration name contains anything other than letters and numbers, the registration name may be displayed as ?? in the camera image display area.

*4: If the [7. Face Detection Box] is not displayed, adjust the image so that the person is facing forward and the face appears larger in the image.

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.

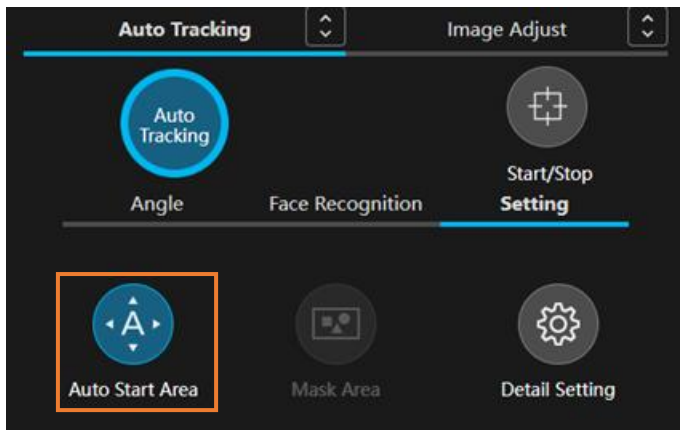
3. Detail Setting button

Click to open the Detail Setting window.

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

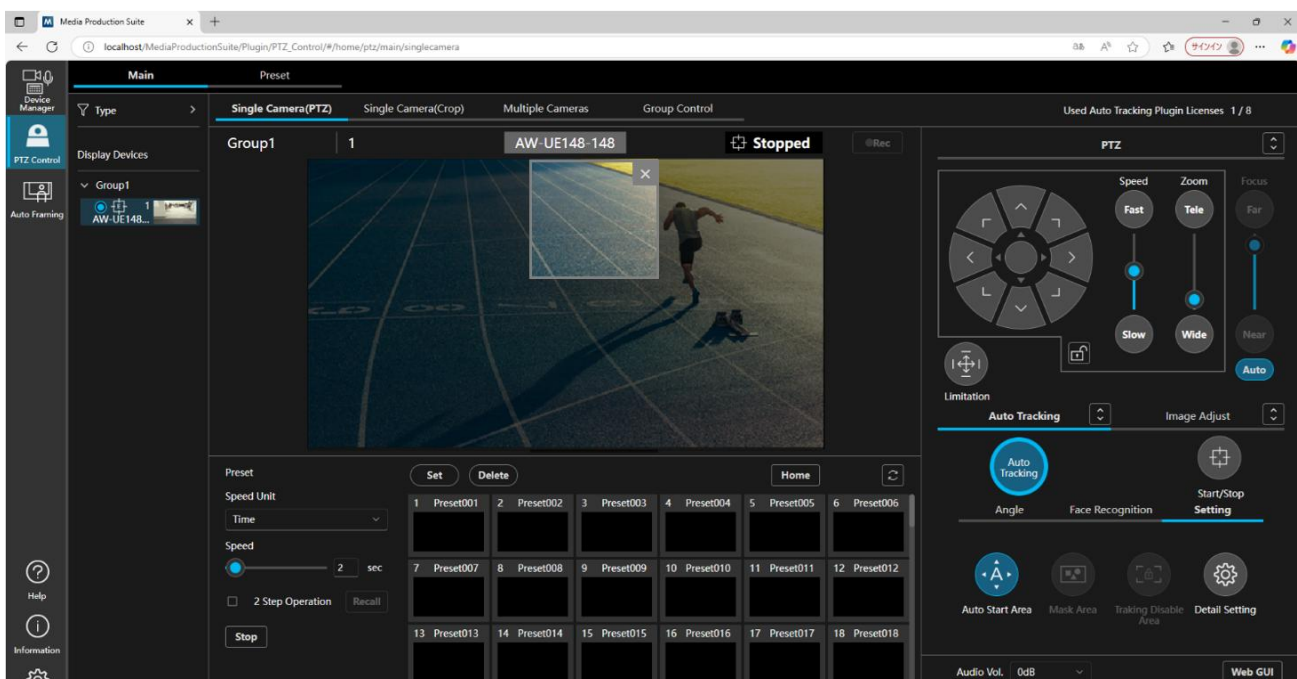
For details, refer to the “[Setting the detailed functions of Auto Tracking](#)” in this manual.

Setting the auto start area



You can automatically set the tracking target and the area where the Pan/Tilt function is enabled automatically. When a body box is detected within the configured area, it will be set as the tracking target, and tracking will begin. Configure the settings according to the procedure below.

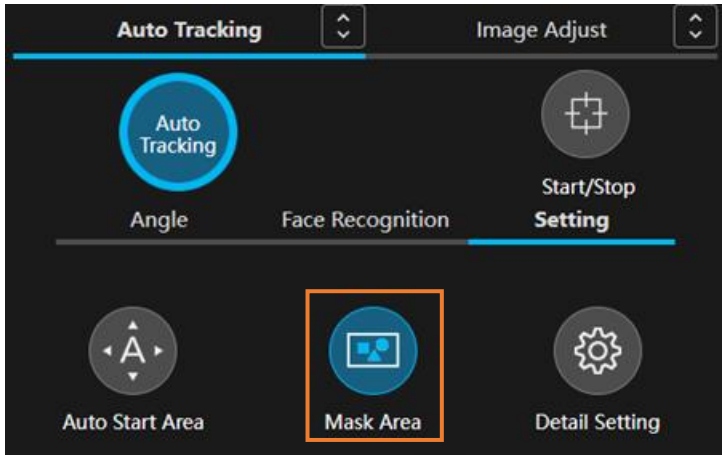
1. Left-click the [Auto Start Area] button in the [Setting] tab.
2. If the Initial position is set in the Detail Setting window, it will automatically load the Initial position preset. If the initial position is not set, no preset will be loaded.
3. Left-click on the camera view and drag to create a region without gray-out. Release the mouse drag to complete the setting.
4. To remove the Auto Start Area box, left-click the X button in the top right corner of the box.
To move the Auto Start Area box, left-click inside the box you have created and drag to adjust its position.
To resize the Auto Start Area box, left-click and drag from the corners or edges of the box to adjust the size of the box.
5. If the Initial position is set in the Detail Setting window, the camera will automatically load the Initial position preset if the tracking target is lost after tracking starts in the [Auto Start Area], and the [Auto Start Area] will be re-enabled. If the Initial position is not set, no preset will be loaded, and the [Auto Start Area] will not be re-enabled.



<NOTE>

- When the Auto Start Area and the face recognition function are both enabled, tracking will start only when the subject selected as the tracking target for face recognition enters the Auto Start Area box. Tracking will not start if a person other than the selected subject for the face recognition enters the Auto Start Area box.

Setting the mask area

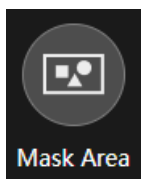


You can set mask areas (regions in the camera view that are excluded from detection) for detecting the tracking targets.

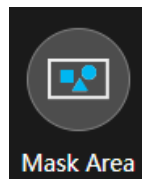
Configure the settings according to the procedure below.

1. Left-click the [Mask Area] button in the [Setting] tab
2. Left-click on the camera view and drag to create a region with gray-out.
Release the mouse drag to complete the setting. You can create up to 10 mask area boxes.
3. To remove the mask area box, left-click the X button in the top right corner of the box.
4. To move a mask area box, left-click inside the box and drag to adjust its position.
To resize a mask area box, left-click on a corner or side of the box so that you can adjust the size of the box.
5. Turn off the [Mask Area] button to finish the setting.

If at least one mask area box is set, the icon of the [Mask Area] button will update accordingly.

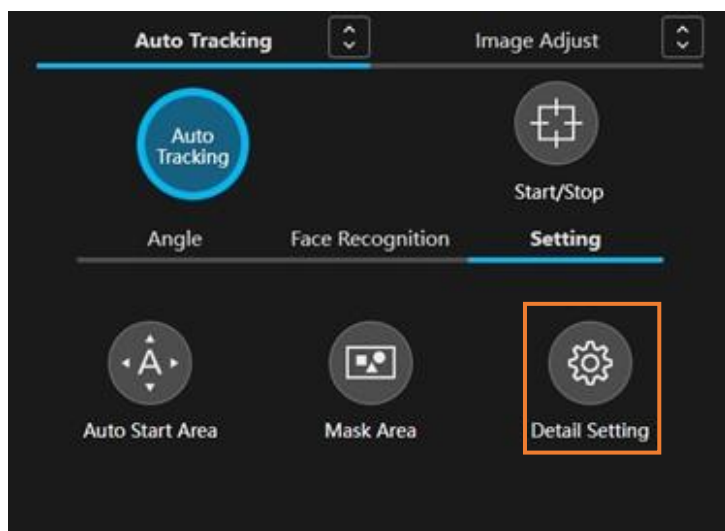


Mask area box
Number set: 0

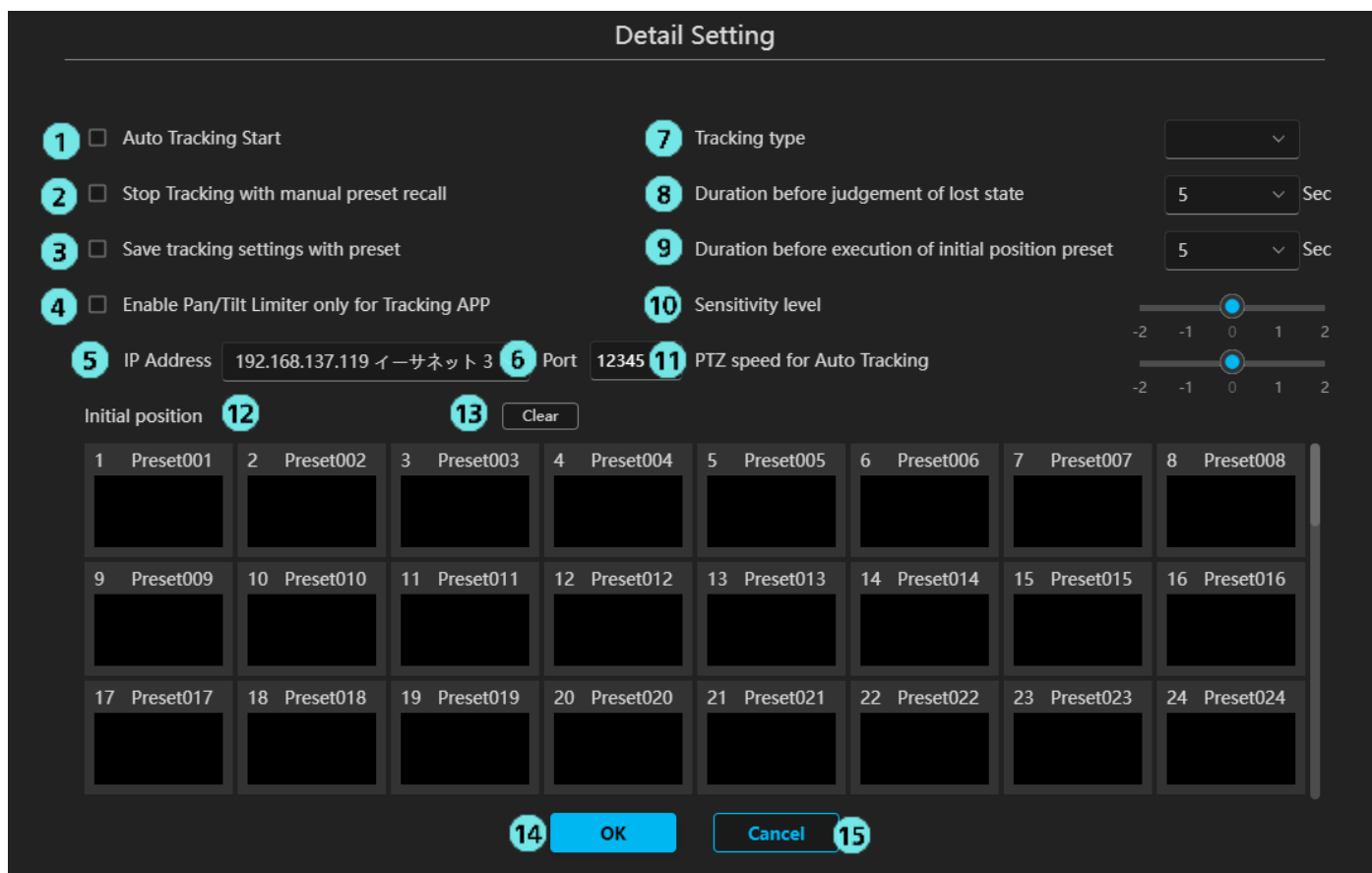


Mask area box
Number set: 1 or more

Setting the detailed functions of Auto Tracking



The Detail Setting window opens when you left-click the [Detail Setting] button in the [Setting] tab. You can configure detailed settings for the Auto Tracking function from the window.



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 [枠](#)” in the PTZ Control operation manual.

The Port No. is used for acquiring the Pan/Tilt position data, and the following settings are automatically configured for the 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 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 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-UE80/83, AW-UE100, AW-UE150/155, AW-UN145, AW-HE145, AW-UE150A/158/148, AW-UE160/163, AW-UR100.

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-UE30/40/43/50/53/80/83/150A/158/148.
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 0 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.

Auto Crop Tracking control

Preparation (Before Using the Crop Function)

To use the Crop function, perform the following in advance:

1. In the Device Manager function, register cameras that support Crop.
For details, refer to “Device Registration” in the Device Manager operation manual. *1 *2
2. In the Device Manager function, set the camera’s System Format to UHD (3840×2160). *3
3. In the Single Camera (Crop) screen, set UHD Crop Mode to either [Crop(1080)] or [Crop(720)].



<NOTE>

*1 : At software startup, IP (H.264/H.265) OUT1 [FULL, CROP] setting of the PTZ Camera is automatically configured to FULL.

To ensure proper operation of this software, please do not change this setting from FULL while using the software.

*2 : While this software is running, if UHD Crop Mode is set to [Crop(1080)] or [Crop(720)], the Output source will be automatically set to 3G SDI2 for the models listed below.

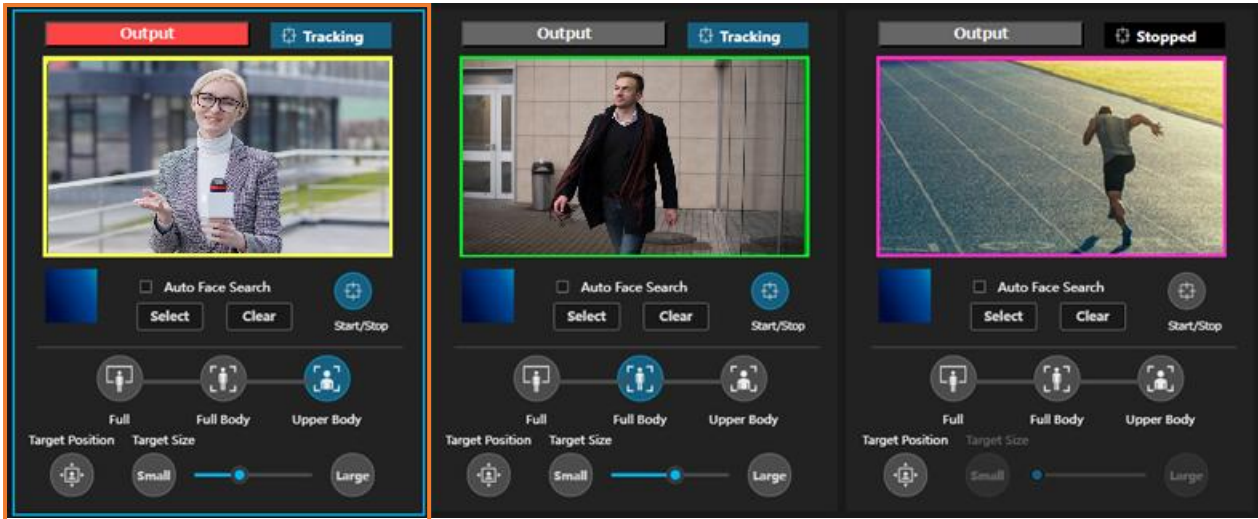
To ensure proper operation of this software, please do not change this setting from 3G SDI2 while using the software with UHD Crop Mode set to [Crop(1080)] or [Crop(720)].

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*3 : The selectable UHD Crop Mode options vary by system format.

- UHD Crop Mode: Can be set to [Off], [Crop(1080)], or [Crop(720)].
Supported System Formats: [2160/59.94p], [2160/50p].
- UHD Crop Mode: Can be set to [Of] or [Crop(1080)].
Supported System Formats: [2160/60p], [2160/29.97p], [2160/25p], [2160/24p], and [2160/23.98p].

Setting CropAdjust frame



Select the CropAdjust frame (outlined area in the figure above), which is the target for Auto Crop Tracking function and Crop operations.

The following functions are applied to the selected CropAdjust frame:

- [Position / Size Adjustment]
You can adjust the horizontal (H) and vertical (V) position of the Crop frame, and controls the zoom.
- [Crop Preset]
You can execute Crop preset operations.
- [Auto Crop Tracking function]
You can set or change the tracking target by left-clicking a person body box in the camera Full image.
- [Auto Crop Tracking function]
You can perform temporal face registration by double left-clicking a person face box in the camera Full image.

To switch the operation target to a different CropAdjust frame, left-click on any area of the Crop frame other than the buttons in the Crop area (Output button, Select button, Clear button, Angle button, Target Position button, and Target Size button/slider).

The operation target will then move to the left-clicked Crop frame.

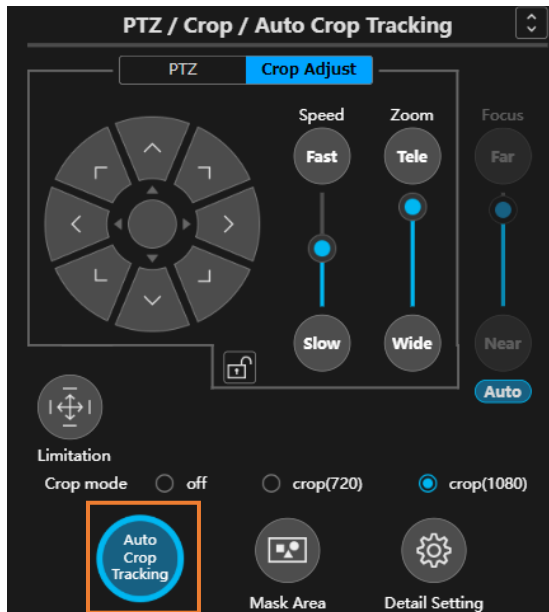
Setting the detailed functions of Crop functions

For details on configuring Crop-related functions, please refer to “Setting the detailed functions of Crop functions” in the PTZ Control operation manual.

Performing Camera Control and Operation

For details on operating the Crop frame position and size, as well as switching the camera video output, please refer to “Performing Camera Control and Operation” in the PTZ Control operation manual.

Enabling / disabling Auto Tracking function

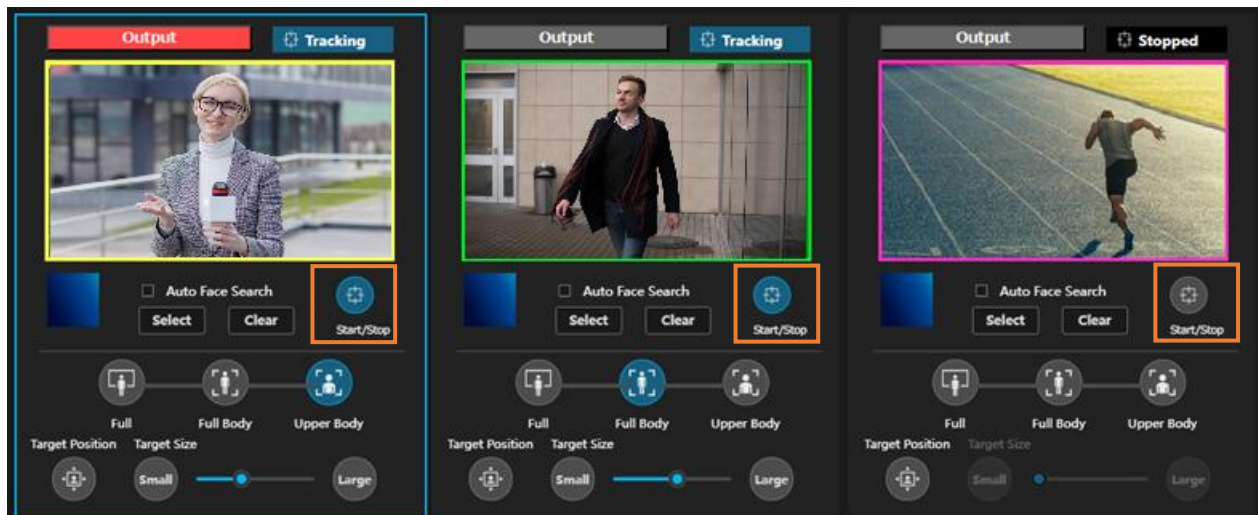


Used Auto Tracking Plugin Licenses 0 / 1

After registering the PTZ camera, navigate to the Single Camera (Crop) Screen in the PTZ Control Screen and set a UHD crop mode.

Left-clicking the [Auto Crop Tracking] button enable or disable the Auto Crop Tracking function for the displayed PTZ camera. When the Auto Crop Tracking function is enabled, person boxes will be displayed if persons are detected in the full camera view. Each time the Auto Crop Tracking function is enabled for a PTZ camera, one Auto Tracking plugin license will be consumed. The license usage status is displayed in the top right corner of the PTZ Control screen.

Starting and stopping the Auto Crop Tracking operation



You can start or stop the Crop movement using Auto Crop Tracking with the [Start/Stop] button (enclosed within a box in the figure above) in the Auto Crop Tracking control area.

To stop the tracking process (Crop movement), perform the following operations.

1. Untick the Auto Crop Tracking Start checkbox (✓) in the Detail Setting window.
2. Set the [Tracking Start/Stop] button to the OFF state (gray).
3. The tracking process will be stopped.

Setting the tracking target and start tracking

For each Crop frame, the tracking target can be automatically detected and tracking can begin accordingly.

Once the tracking process starts, only the person body box for the tracking target turns blue, and a tag in the color corresponding to each Crop frame is displayed to that box.

The person body boxes of non-tracking targets remain black.

• When setting the tracking target automatically

The following triggers are available for setting the tracking target automatically:

1. Detecting persons within the camera's view.

Each Crop frame is set to track a different person as the tracking target. However, if two or fewer persons are present within the field of a Full camera view, some Crop frames may be set to track the same person.

2. Using the face recognition feature to detect the face of a designated person.

Configure the settings according to the procedure below. The face recognition feature can be configured individually for each Crop frame.

- When tracking a specific person

- 1) Click the [Select] button on the [Face Recognition] tab to open the Select Face screen.
- 2) On the Select Face screen, select the face data of the person to be tracked and click the [OK] button to close the Select Face screen. *1
- 3) The tracking process will start when the designated face is detected in the camera view.

- When detecting any persons registered in the face database as tracking targets

- 1) Check the Auto Face Search option.
- 2) When any registered face data is detected within a Full camera view, the tracking process will start.
The smaller the face data ID in the Setting - Face Recognition screen, the higher the detection priority. However, face data IDs that are already assigned to other Crop frames are excluded from detection.
If you want to track the same person simultaneously with multiple Crop frames, register the face of that person two or more times.

In this state, setting the [Tracking Start/Stop] button to ON will enable the Crop frame control of the PTZ camera, and the tracking operation will begin. *2

• When setting the tracking target manually

The following triggers are available to manually set the tracking target for the Crop Adjust frame.

1. Left-clicking on a body box within the camera's view
2. Double left-clicking on a face box within the camera's view for temporary face registration
The face data at the double left-clicked location will be set as the source for face recognition. This face data will not be saved. To clear the set face data, left-click the [Clear] button on the [Face Recognition] tab.

The tracking target can be manually detected by any of the above triggers.

In this state, setting the [Tracking Start/Stop] button to ON will enable the Crop frame control of the PTZ camera, and the tracking operation will begin. *2

<NOTE>

- *1: The face data settings for the face recognition function are remembered for each Crop frame.
- *2: If the Auto Crop Tracking Start checkbox (✓) is ticked in the window displayed with the [Detail Setting] button, the PTZ camera's Crop frame control will automatically be enabled as soon as the tracking target is detected.

Changing the tracking target

To change the tracking target during tracking operations, follow these steps for the Crop frame you want to change it.

- **When using the face recognition function**

1. Left-click the [Select] button on the [Face Recognition] tab to display the Select Face screen.
2. On the Select Face screen, select the face data of the new person you want to track and click the [OK] button to close the Select Face screen.
3. When the new tracking target's face is detected in the camera view, the tracking process for the newly detected target will begin.

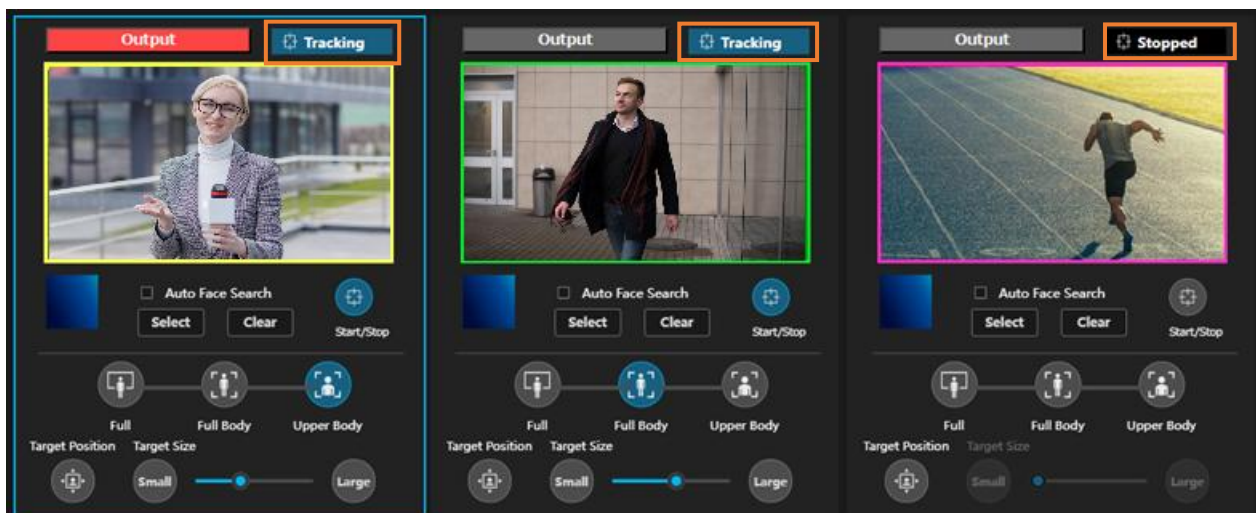
<NOTE>

- If the face 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 to the CropAdjust frame as the source for face recognition. This face data will not be saved.
- To clear the set face data, click the [Clear] button.
- The Face recognition may not work if the face of subject is too small for the angle of view.

- **When not using the face recognition function**

1. Set the CropAdjust frame to the Crop frame for which you want to change the tracking target.
2. Left-click the detected body box in the camera image.
3. The person body box at the left-clicked position will be set as the new tracking target, and the tracking process will start.

Checking the status during Auto Crop Tracking



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

Tracking

A subject has been detected and is being automatically tracked

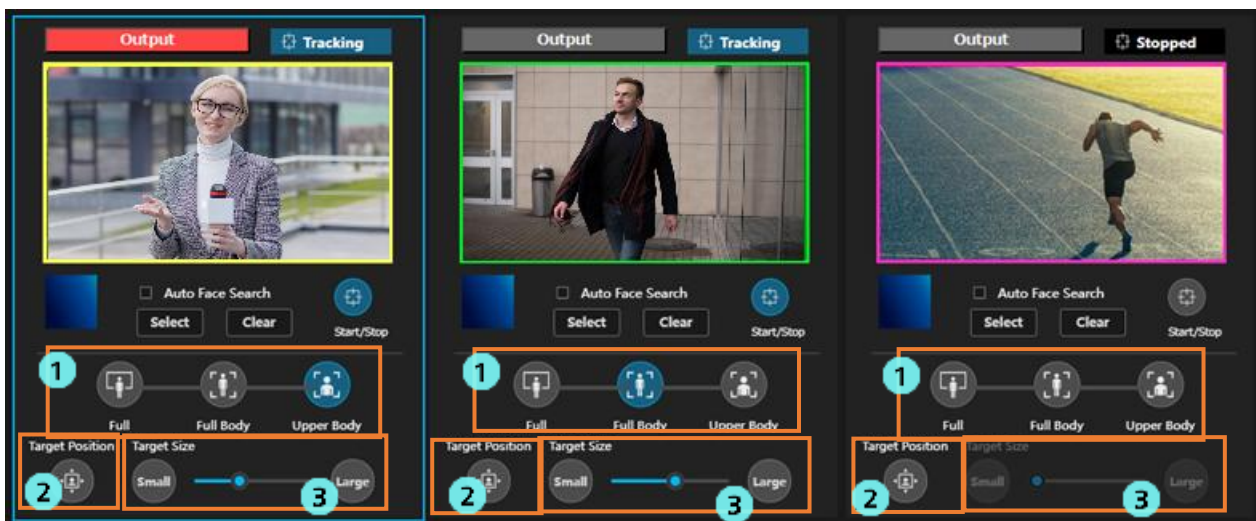
Lost

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.

Setting the camera angle during Auto Crop Tracking



- 1) You can set the angle of Crop frame during Auto Crop Tracking with the [Full] button/[Full Body] button/[Upper Body] button (Fig. 1 above) in the Auto Crop Tracking control area.

[Upper Body] button is ON

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

[Full Body] button is ON

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

[Full] button is ON

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

All buttons are OFF

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

<NOTE>

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

- 2) You can make detailed settings for each Crop frame 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 Crop frames 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 for each Crop frame.
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 for each Crop frame.
- This function does not operate with the following Panasonic PTZ camera models:
AW-UE150/UE155/UN145 (As of September 2025)

• **Setting the Target Position**

Configure the settings according to the procedure below.

1. Click the desired angle button ([Full], [FullBody], or [UpperBody]) for the Crop frame you want to set. *1

The zoom is adjusted with regard to the default position so that the tracking target is in the specified position below:

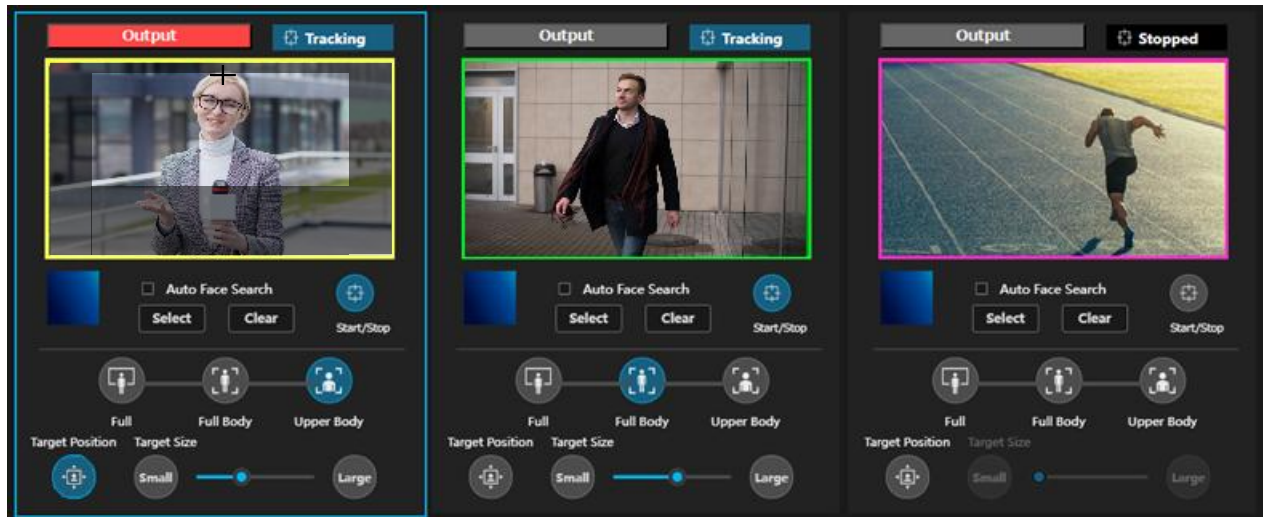
If no settings have been made: initial position, if settings have been made before: previously set position

2. Left-click the [Target Position] button for the Crop frame you want to set. *1

3. A black cross mark and a white frame will be drawn within the Crop frame view.

The cross mark indicates the position above the head of the tracking target, and the white frame indicates the range within which the position above the head can be specified.

4. Left-click within the Crop frame view to change the position of the tracking target within the field of the Crop frame view. The position of the tracking target is saved for each angle for each Crop frame.



• Setting the Target Size

Configure the settings according to the procedure below.

1. Left-click the desired angle button ([Full], [FullBody], or [UpperBody]) for the Crop frame you want to set. *2
The zoom is adjusted with regard to the default position so that the tracking target is the specified size below:
If no settings have been made: initial size, if settings have been made before: previously set size
2. You can change the size of the tracking target by either clicking the [Target Size] ([Small] or [Large]) button within the [Angle] or doing drag and drop of the [Target Size] slider.

This size setting for the tracking target is saved for each angle for each Crop frame.

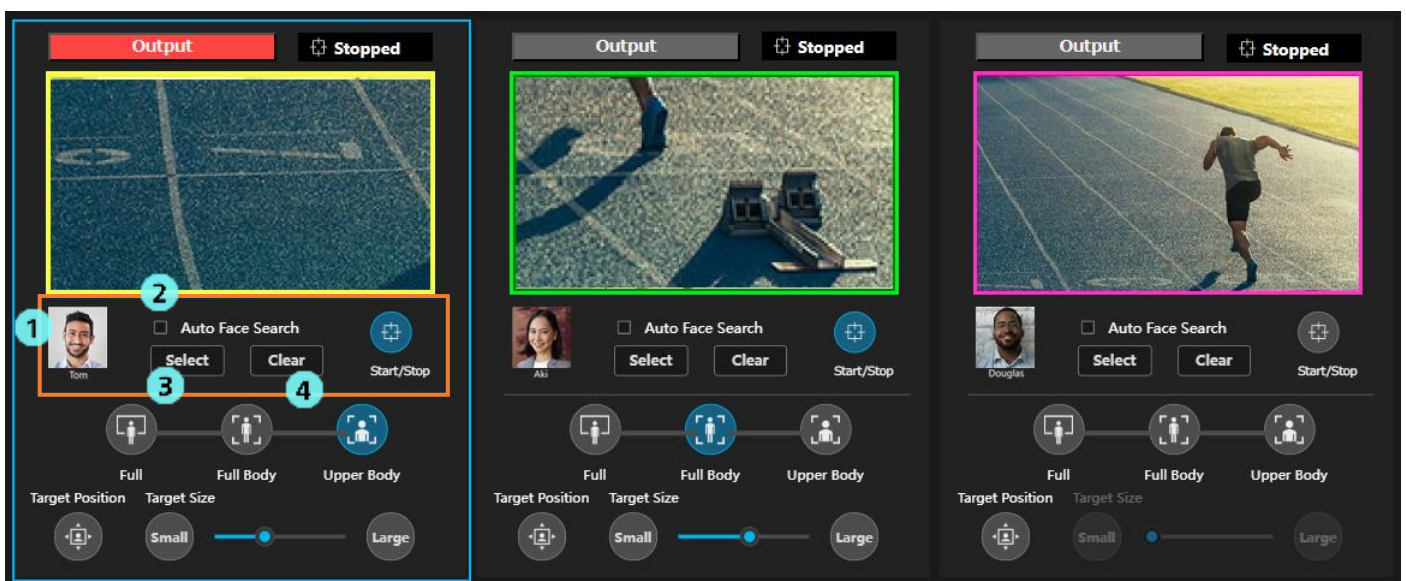
<NOTE>

*1: When the [Target Position] button is ON and none of the angle buttons are ON, you can left-click within the Crop frame view to change the position of the current tracking target.

At the time, you will need to manually turn ON the [Tracking Start/Stop] button to start the tracking process.

*2: To configure angle settings, there must be a person present within the field of the Crop frame view.

Configuring the operation of the Face recognition function



You can select the face recognition for each Crop frame.

1. Display the set face

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

2. Auto Face Search checkbox

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

When tracking is performed with Auto Face Search turned ON, a smaller face data ID (display order) indicates a higher detection priority. However, even when Auto Face Search is ON, faces that are already assigned to other Crop frames are excluded from detection.

3. Select button

Displays the Select Face window.

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

4. Clear button

Clears the face data set as the source for face recognition that is linked with the Crop frame.

<NOTE>

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

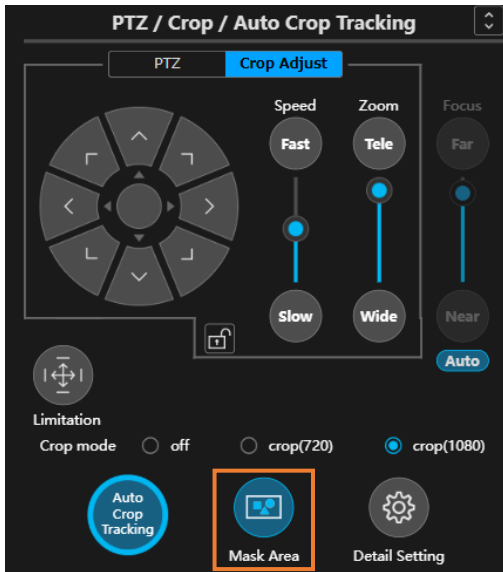
Selecting the face data to recognize

For details on selecting the face data to recognize, please refer to “[Selecting the face data to recognize](#)” of the Auto Tracking control section in this manual.

Adding the face data to recognize

For details on adding the face data to recognize, please refer to “[Adding the face data to recognize](#)” of the Auto Tracking control section in this manual.

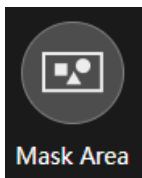
Setting the mask area



You can set mask areas (regions in the camera view that are excluded from detection) for detecting the tracking targets. The mask areas configured here are stored separately from the mask areas configured for the Auto Tracking function. Configure the settings according to the procedure below.

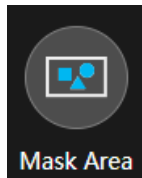
1. Left-click the [Mask Area] button
2. Left-click on a Full camera view and drag to create a region with gray-out.
Release the mouse drag to complete the setting. You can create up to 10 mask areas.
3. To remove the mask area box, left-click the X button in the top right corner of the box.
4. To move a mask area box, left-click inside the box and drag to adjust its position.
To resize a mask area box, left-click on a corner or side of the box so that you can adjust the size of the box.
5. Turn off the [Mask Area] button to finish the setting.

If at least one mask area box is set, the icon of the [Mask Area] button will update accordingly.



Mask area box

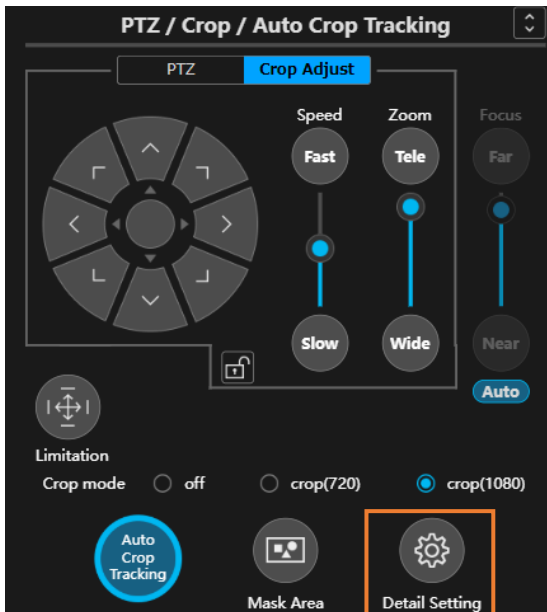
Number set: 0



Mask area box

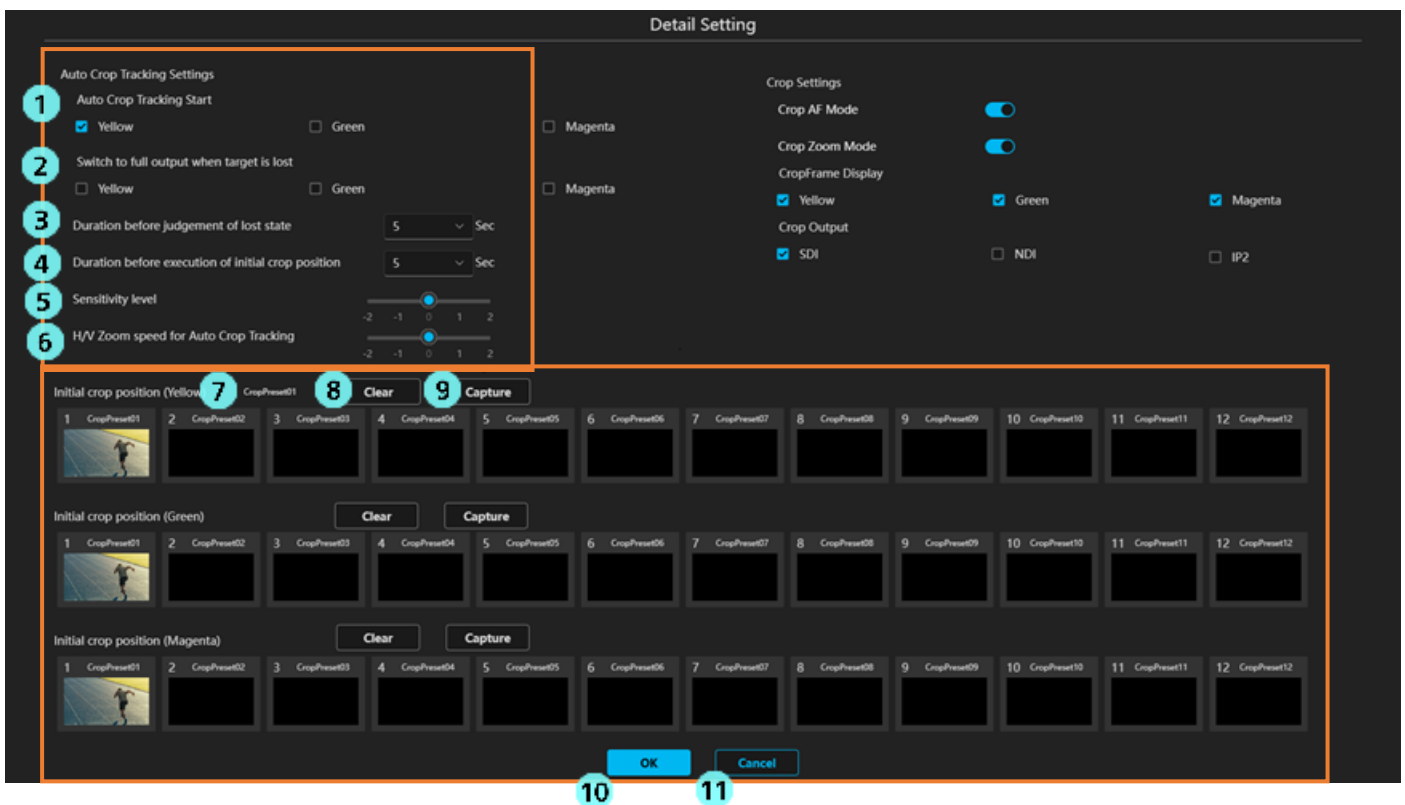
Number set: 1 or more

Setting the detailed functions of Auto Tracking



By clicking the [Detail Setting] button in the Auto Crop Tracking operation area (outlined area in the figure above), the Detail Setting window for Auto Crop Tracking will open.

From this window, you can configure detailed settings for the Auto Crop Tracking function



1. Auto Crop Tracking Start

Set the operation to perform when a tracking target is detected for each Crop frame.

When this option is checked, the tracking operation of the Crop frame will start automatically as soon as the tracking target is detected for that Crop frame.

2. Switch to full output when target is lost
Configure the camera video output behavior when the tracking target is lost.
When this option is checked and the tracking target of the Crop frame enters the lost state while that Crop frame is currently being output, the camera video output will automatically switch to the full image.
3. 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.
4. Duration before execution of initial crop position
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 0 to 30.
Select the registration of the preset position on 7. Initial Crop Position screen.
5. Sensitivity Level
Set the sensitivity of the Crop frame 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.
6. H/V/Zoom speed for Auto Crop Tracking
Sets the speed of the Crop frame control that follows the tracking target.
This value can be set within the range of -2 to 0 to +2.
The higher the value the faster the Crop control speed.
7. Initial Crop Position selection screen
Select which Crop preset to move to when the tracking target is lost.
8. Clear button
Cancel the Crop preset selected on 7. Initial Position screen.
9. Capture button (Yellow, Green, Magenta)
Registers the current position and size of the Crop frame as the Initial Crop position for the specified Crop frame.
<NOTE>
When the [Capture] button is clicked, the current Crop frame position and size are automatically registered to an unregistered Crop preset number.
If no unregistered Crop preset is available, the Capture function cannot be used.
10. OK button
Activate the settings and close the window.
11. Cancel button
Cancel the settings and close the window.

Auto Tracking / Auto Crop Tracking control using peripheral devices

Performing the Auto Tracking / Auto Crop Tracking control using external controllers

You can perform the Auto Tracking / Auto Crop Tracking operation using external controllers.

Please refer to the document of Media Production Suite Auto Tracking Plugin Web API Specifications from the list of interface specifications, protocol documents below for details.

[Documents \(panasonic.co.jp\)](#)

Performing the Auto Tracking / Auto Crop Tracking control using keyboards

You can perform the Auto Tracking / Auto Crop Tracking operation using the keyboards connected to the client's PC.

For various PTZ camera operations besides Auto Tracking / Auto Crop Tracking, please refer to the "Operating the Camera with a Keyboard" section in the PTZ Control operation manual.

The following is the allocation of the keys and operations.

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

Function Restrictions by Role

List of Function Restrictions by Role

Among the Administrator/Super User/User account roles, the User role has limited access to certain features.

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

		Administrator	Super User	User
Operatable camera		All	All	Only permitted camera
Auto Tracking control	Auto Tracking function ON/OFF	○	○	○
	Start/Stop tracking	○	○	○
	Configure Angle	○	○	○
	Configure Target Position	○	○	○
	Configure Target Size	○	○	○
	Select face data for face recognition	○	○	○
	Add face data	○	○	○
	Configure Auto Start Area	○	○	○
	Configure Mask Area	○	○	○
	Configure Detail Setting	○	○	
Auto Crop Tracking control	Auto Crop Tracking function ON/OFF	○	○	○
	Start/Stop tracking for each Crop frame	○	○	○
	Configure Angle for each Crop frame	○	○	○
	Configure Target Position for each Crop frame	○	○	○
	Configure Target Size for each Crop frame	○	○	○
	Select face data for face recognition for each Crop frame	○	○	○
	Add face data	○	○	○
	Configure Mask Area	○	○	○
	Configure Detail Setting	○	○	
GPU operations	Change GPU allocation of the plugin	○		
Face Database operations	Add face data	○	○	○
	Edit face data	○		
	Delete face data	○		