

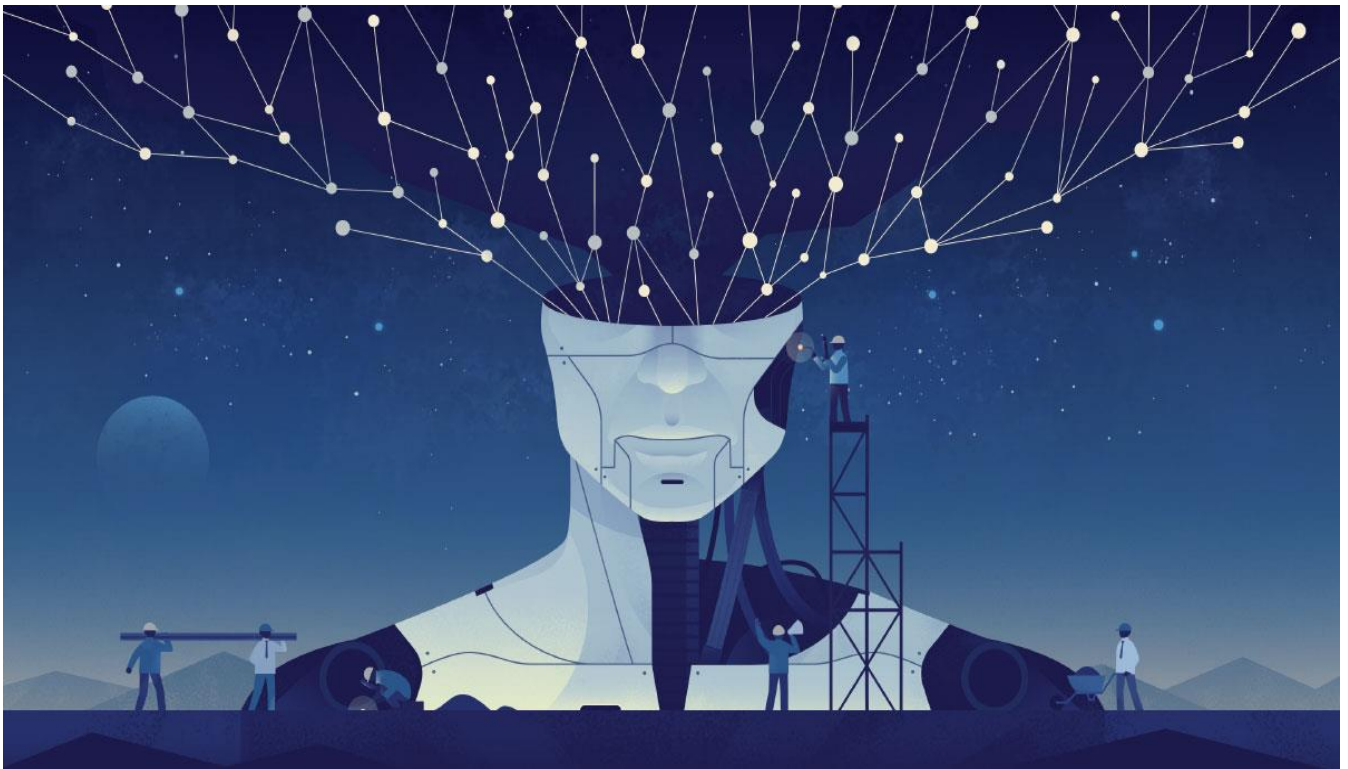
GANZ PTZ AI APP

User Guide

For ZN-AIBOX-STD

V.0.0.1

Caution: The contents of this manual are subject to change at any time without prior notice.



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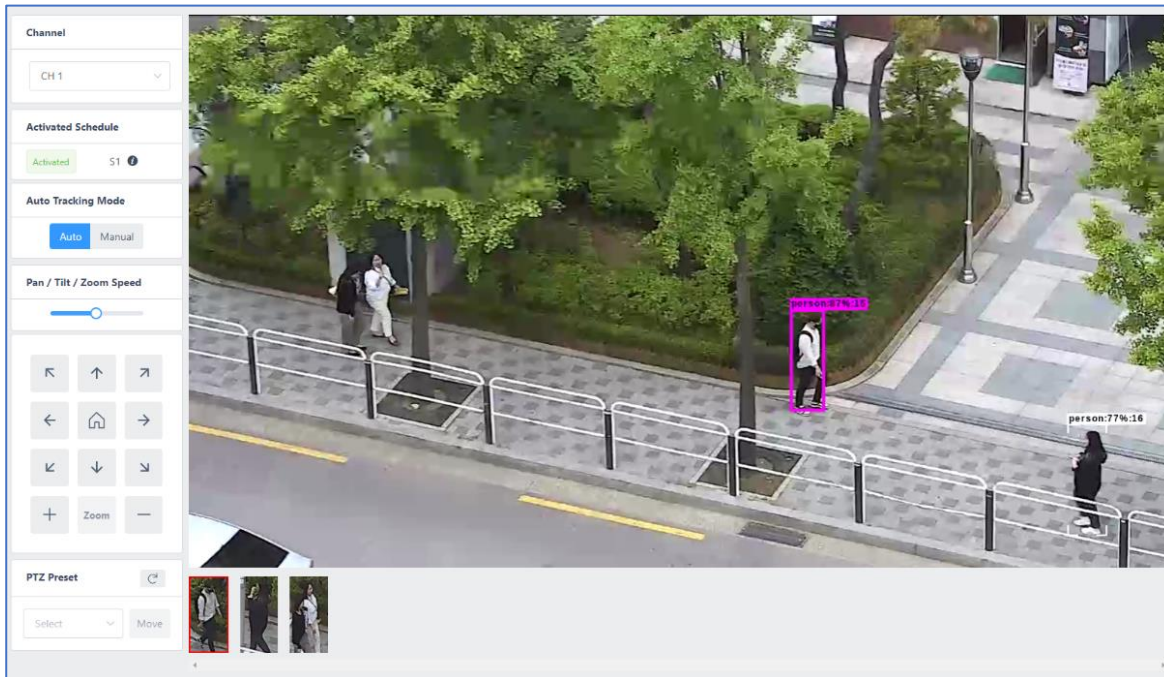
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1. PTZ Tracking

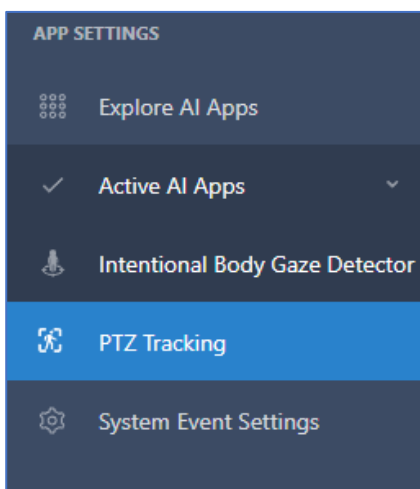
1.1 Caution

The PTZ Tracking app works using the Onvif API, so it will not work with PTZ cameras that do not support Onvif.

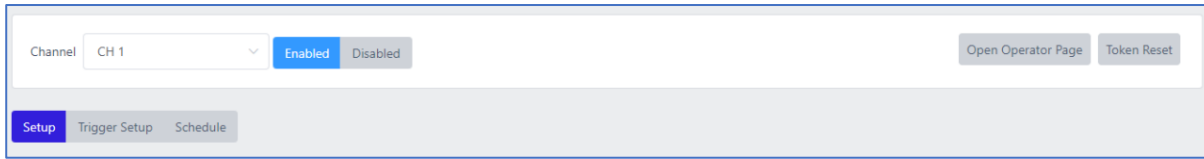


1.2 Preference

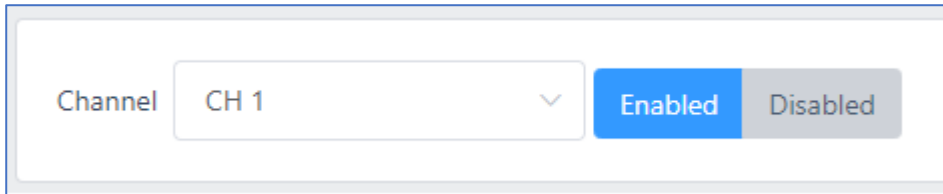
After activating the PTZ Tracking app, click the PTZ Tracking menu in the sidebar to view the PTZ Tracking app settings menu.



Below is the PTZ settings menu.



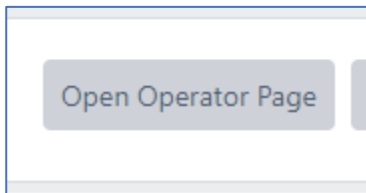
1.3 Enable PTZ Tracking app



Select the channel you have connected with the PTZ camera in the Video Stream menu and click the Enabled button to enable the PTZ Tracking app.

(If an app other than PTZ Tracking is set on that channel, it will not be enabled).
The PTZ Tracking app must be enabled for that channel before you can make settings.

1.4 Open Operator Page



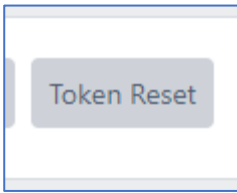
Open the PTZ APP Operator page, which does not require a separate login. The access URL has a token value, which grants permissions that can only be operated on the Operator page.

URL example:

(https://192.168.1.20:8443/#/operator/ptz_tracking?token=TYeQ5T2cowEsvOKe0zwtDzSwTSh4Nx)

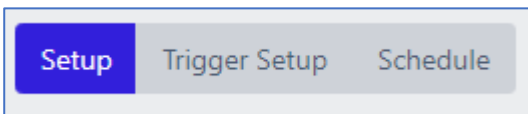
Therefore, if you pass the URL to the operator, you can operate without setting separate permissions. Please refer to the “PTZ Tracking – Operation” link for a description of the page.

1.5 Token Reset



Change the token value of the page URL for PTZ APP Operator. Use it when you need to change the page URL for PTZ APP Operator due to security-related issues.

1.6 Settings Menu



[Setup, Trigger Setup, Schedule] Click the tabs to view the corresponding settings menu. Detailed descriptions are available on the subpages of the current page.

1.7 Setup

You can set up PTZ connection, snapshot FTP upload during tracking, tracking method, and tracking speed on 'Set up' menu.

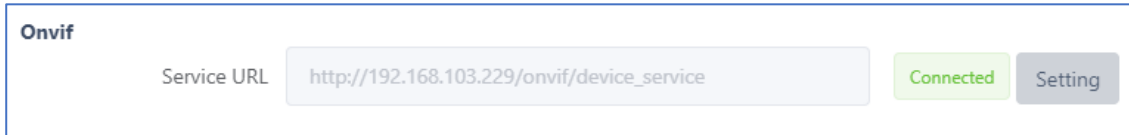
The Setup menu interface includes the following sections:

- Onvif**: Service URL (http://192.168.103.229/onvif/device_service), Connected status, and Setting button.
- Snapshot**: FTP Snapshot field and Setting button.
- Config**:
 - Target Object: Person (selected)
 - Tracking Duration: 10 second(s)
 - Post Action of Tracking: Move to Preset, Home, 3 second(s)
 - Holding Vertical Size: 35 %
- PTZ Speed**:
 - Zoom (1 ~ 100): 11
 - Pan (1 ~ 100): 45, 60, 65, 68, 70
 - Tilt (1 ~ 100): 10, 20, 30, 40, 50

Additional features include a live video feed, a graph showing Pan and Tilt movement, and Apply/Cancel buttons at the bottom right.

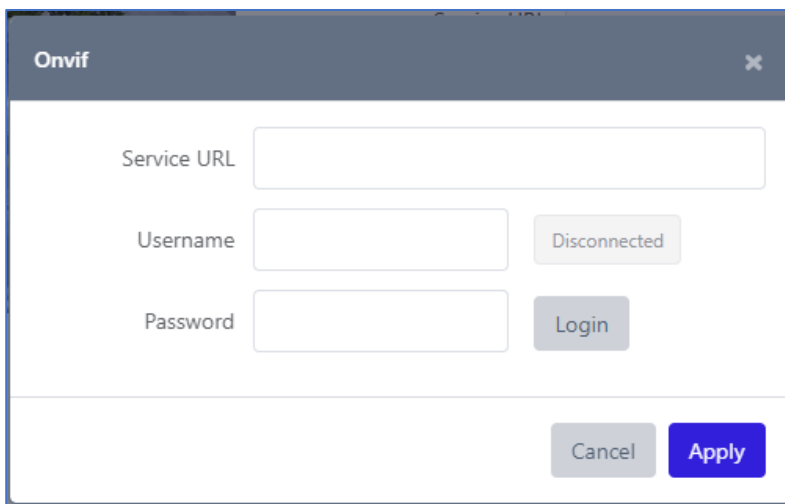
1.8 Onvif connection settings

This is the menu for connecting to a PTZ camera using Onvif.



The image shows a horizontal bar with the title 'Onvif' on the left. To its right is a text field labeled 'Service URL' containing the address 'http://192.168.103.229/onvif/device_service'. Further right are two buttons: a green button labeled 'Connected' and a grey button labeled 'Setting'.

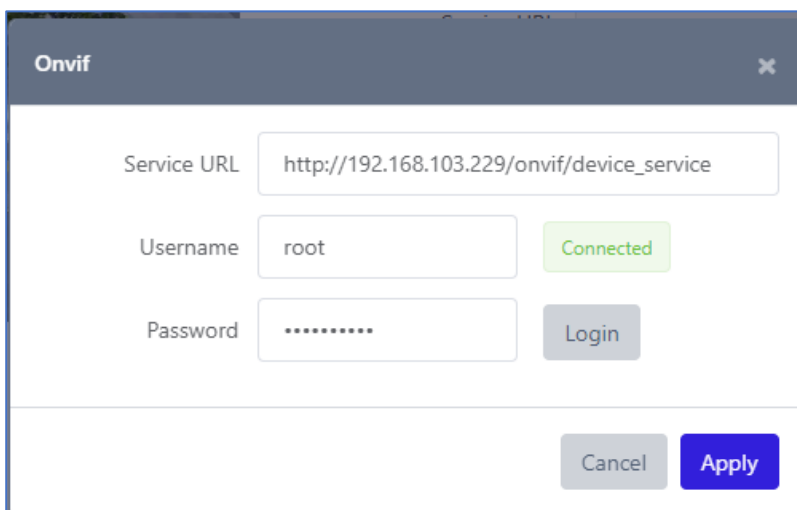
Click the 'Setting' button to pop up the Onvif settings menu.



The image shows a dialog box titled 'Onvif' with a close button (X) in the top right corner. It contains three input fields: 'Service URL', 'Username', and 'Password'. To the right of the 'Username' field is a button labeled 'Disconnected'. Below the 'Password' field is a button labeled 'Login'. At the bottom of the dialog are two buttons: 'Cancel' and 'Apply'.

Enter the PTZ camera's Onvif Service URL and Onvif authentication account information, then click the Login button to request login.

(For how to check the Onvif Service URL, please refer to "How to check the Onvif Service URL")



The image shows the same 'Onvif' dialog box as before, but with updated information. The 'Service URL' field still contains 'http://192.168.103.229/onvif/device_service'. The 'Username' field now contains 'root', and the 'Password' field contains a series of dots. The button that was previously 'Disconnected' is now a green button labeled 'Connected'. The 'Login' button remains grey. The 'Cancel' and 'Apply' buttons are still at the bottom.

If the status changes from [Disconnected] -> [Connected], you're logged in. If you're not logged in, make sure your input is correct.

1.9 Snapshot settings

A feature that periodically uploads snapshots to an FTP server when an object is being tracked.

Snapshot

FTP Snapshot

Setting

Clicking the 'Settings' button will cause the Upload Settings menu to pop up.

Ftp Snapshot

Enabled ☒

Directory

Time Interval second(s)

Server

	Name	Host	Operation
<input checked="" type="checkbox"/>	jhyoo-ftp	192.168.101.11:21	...
<input type="checkbox"/>	jhyoo-sftp	192.168.101.11:22	...
<input type="checkbox"/>	window-ftp	192.168.101.10:21	...
<input type="checkbox"/>	window-sftp	192.168.101.10:21	...

1. Enabled : Enables the ability to upload snapshots to an FTP server when checked.
2. Directory : Enter the path to upload snapshots to the FTP server.
3. Interval : Set the interval in seconds to upload snapshots when object tracking starts. You can set it to more than 1 second and less than 120 seconds.
4. Server : Click the 'Add' button to set the FTP server connection information. Select a server to upload snapshots from the FTP server list below the button.

The following is the FTP server connection information setup window that appears when you click the 'Add' button. Enter the connection information and click 'Apply' to save it to the FTP server list.

FTP Server

Protocol

☒ FTP
 ☐ SFTP

Name

jhyoo-ftp

Host

192.168.101.11

Port

21

^

v

Username

jhyoo

Password

Passive Mode

☐

Cancel

Apply

1.10 Config

This is the menu to set the way to track objects set in PTZ tracking app.

Config

Target Object

Person

ⓧ

v

Tracking Duration

10

^

v

second(s)

Post Action of Tracking

Move to Preset

v

Home

v

3 second(s)

v

Holding Vertical Size

35

^

v

%

1. Target Object : Select an object to track.
2. Tracking Duration : Set the time (in seconds) to track the object.
3. Post Action of Tracking : Set the action after object tracking ends. You can set one of [Stop, Move to Preset, Tour].
 - a. [Stop] : Do nothing after tracking ends.

- b. [Move To Preset] : Moves to the PTZ Preset you set after tracking ends.
- c. [Tour] : Operates as a Tour composed of PTZ Presets. Tour can be set in the Trigger Setup tab of Preference.

Holding Vertical Size : Set what percentage of the vertical length of the tracked object should be held to the vertical length of the video. The PTZ zoom is adjusted according to the value entered in the app. It can be set to a value between 10 and 70.

1.11 PTZ Speed

Different products have different pan/tilt/zoom speeds, so this is a setting menu to adjust the speed according to the product.



1. When PTZ is operated, the speed value is 0~100. (Onvif Spec)
2. For Zoom, set the optimal value while entering the Speed value according to the zoom speed of the PTZ. If this value is not appropriate, objects may be missing.
3. For Pan/Tilt, enter a Speed value of “slow walking” (tracking objects closer to the center of the screen) to “running” (tracking objects farther from the center of the screen) in 5 steps.
4. If this value is not appropriate, the tracking may not keep up with the object, or may even run ahead of it.
5. The Pan/Tilt Speed value supports both numeric entry and dragging each point up and down on the graph.

1.12 Trigger Setup

This menu allows you to set the detection area for each PTZ preset or set a tour consisting of PTZ presets.



1.13 PTZ Preset

You can set zones for each preset. The zones you set will work under the following conditions.

1. When the Post Action of Tracking value is [Move to Preset] and the Tracking Mode value is [Auto],
 - a. Move to the preset set at the beginning and end of tracking. When the move is completed, the zone is activated.
 - b. Start tracking when the tracked object enters the zone.
2. When Post Action of Tracking is [Tour] and Tracking Mode is [Auto],
 - a. The zone is activated for a waiting period while moving between presets. When the tracked object enters the zone, it starts tracking.
 - b. After the tracking ends, it returns to the previous preset and waits for the remaining waiting time.

1.14 PTZ Tour

You can set up a Tour, which consists of [a preset, a speed, and a wait time]. Up to 4 tours can be set. (These PTZ Tour settings are not stored in the PTZ camera. They are stored in AI Bridge).

1.15 Schedule

Schedule settings menu to set how the PTZ app should operate according to the day/time.

Setup Trigger Setup Schedule							
Schedule							+ Add
No	Name	Schedule	Time	Post Action of Tracking	Auto Tracking Mode	Operation	
1	S1	MON, TUE, WED, THU, FRI, SAT, SUN	16:00 - 16:02	Move To Preset, Preset 1, 5second(s)	Auto	^ v [icon] [icon]	
2	S2	MON, TUE, WED, THU, FRI, SAT, SUN	09:02 - 11:00	Tour, tour_0	Manual	^ v [icon] [icon]	
3	S3	MON, TUE, WED, THU, FRI, SAT, SUN	19:00 - 22:00	Move To Preset, Preset 1, 15second(s)	Manual	^ v [icon] [icon]	

1.16 Add

Add schedules. Click the 'Add' button to display the menu below.

Schedule Setting

Name

Auto Tracking Mode

Auto

▼

Action

Select

▼

Schedule

Day

▼

Time Range

⌚ 00:00 ~ ⌚ 00:00

Cancel

Apply

1. Name : Set a name for the schedule.
2. Auto Tracking Mode : Select the tracking mode to operate. You can choose between [Auto, Manual].
3. Action : Set the action to be executed after the end of tracking. You can select from [Stop, Move to Preset, Tour].
4. Schedule : Select a day of the week to run the schedule. You can multi-select [Mon, Tue, Wed, Thu, Fri, Sat, Sun].
5. Time Range : Select a time range for the schedule to run. It is from start time to end time.

1.17 Set, edit, and delete priorities

Schedule + Add						
No	Name	Schedule	Time	Post Action of Tracking	Auto Tracking Mode	Operation
1	S1	MON, TUE, WED, THU, FRI, SAT, SUN	16:00 - 16:02	Move To Preset, Preset 1, 5second(s)	Auto	^ v [edit] [delete]
2	S2	MON, TUE, WED, THU, FRI, SAT, SUN	09:02 - 11:00	Tour, tour_0	Manual	^ v [edit] [delete]
3	S3	MON, TUE, WED, THU, FRI, SAT, SUN	19:00 - 22:00	Move To Preset, Preset 1, 15second(s)	Manual	^ v [edit] [delete]

Click the icon on the operation menu to execute the [De-prioritize, Raise, Edit, Delete] functions.

If the schedule times overlap, the schedule on the top of the schedule list takes priority.

If the schedule is in operation, the page for PTZ APP Operator will display which schedule is in operation.

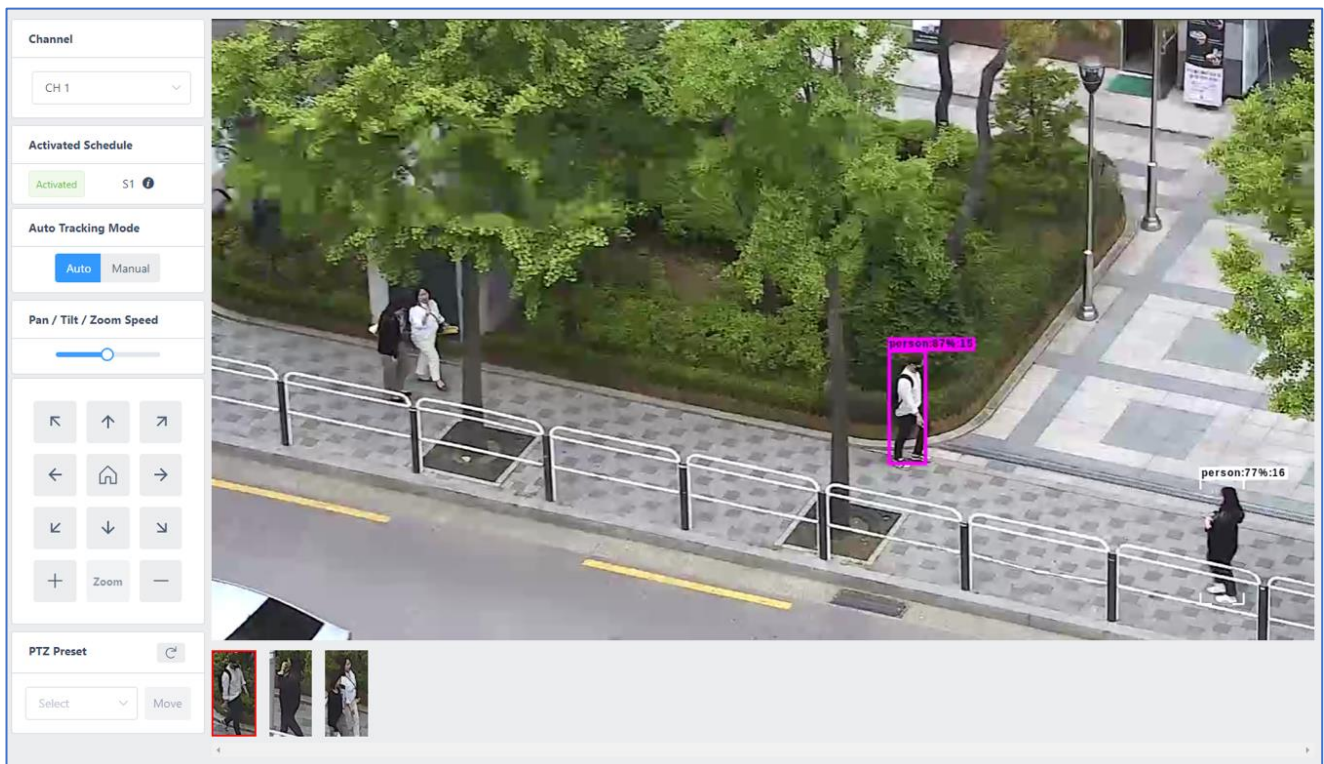
2. Operation

2.1 Caution

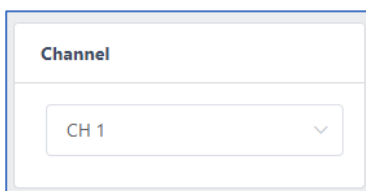
- PTZ operation (except Speed setting) will disable the auto-tracking mode for 10 seconds.
- PTZ Tracking – Trigger Setup menu pauses the auto-tracking mode for zone setting. If you leave this menu open, Auto Tracking will not work.

This menu is not functional until you have completed the settings in PTZ Tracking's Setup menu, see the "[PTZ Tracking – Preference -Setup](#)" link for more information.

This menu can be accessed via the Open Operator Page in PTZ Tracking. See the "[PTZ Tracking – Preference](#)" link for a detailed description.

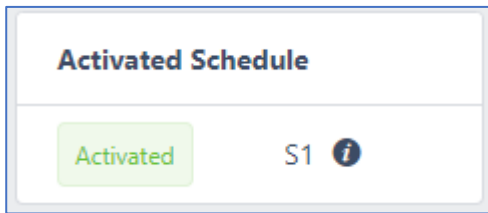


2.2 Channel



You can select channels where PTZ Tracking app is active. Channels that are disabled (indicated by shading) cannot be selected.

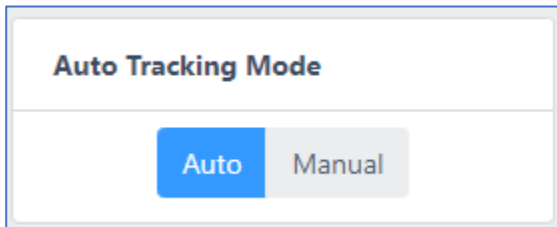
2.3 Activated Schedule



Shows if any of the schedules you have set are active. (Schedules are set in the PTZ Tracking -> Schedule menu).

Click the icon next to the schedule name to pop up the schedule information.

2.4 Auto Tracking Mode

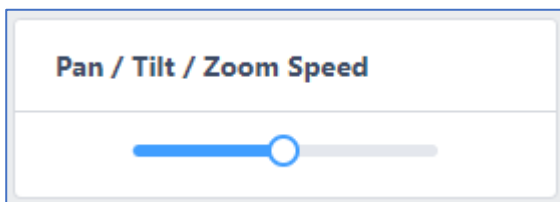


You can set the Tracking Mode to [Auto, Manual]. If it is [Auto], it will automatically track the object.

If PTZ Tracking – Setup – Config – Post Action of Tracking is [Stop], it will automatically track the object closest to the center.

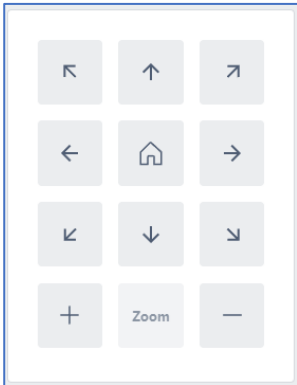
If PTZ Tracking – Setup – Config – Post Action of Tracking is set to [Move to Preset, Tour], it will automatically track the object closest to the center of the screen among the objects in the zone.

2.5 Pan / Tilt / Zoom Speed



Set the speed from 1 to 100.

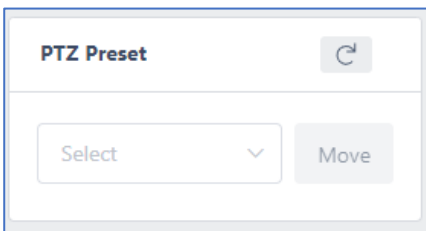
2.6 PTZ Control Panel



Operates the PTZ. When the button is clicked and held, the action is performed, and when it is released, the action stops.

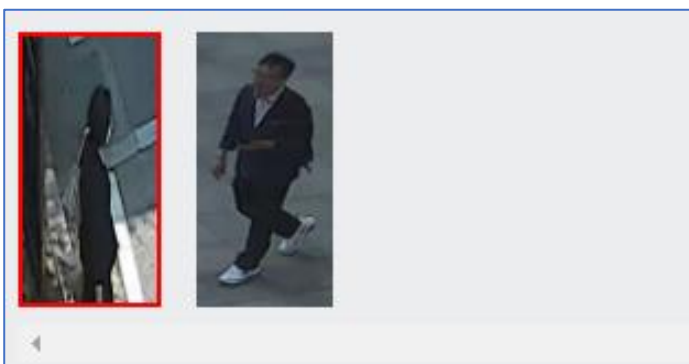
The Home Button moves to the preset with the preset name "Home" when clicked.

2.7 PTZ Preset



It shows the list of presets set on the PTZ, and when you select a preset and click the 'Move' button, it moves to that preset.

2.8 Thumbnail List



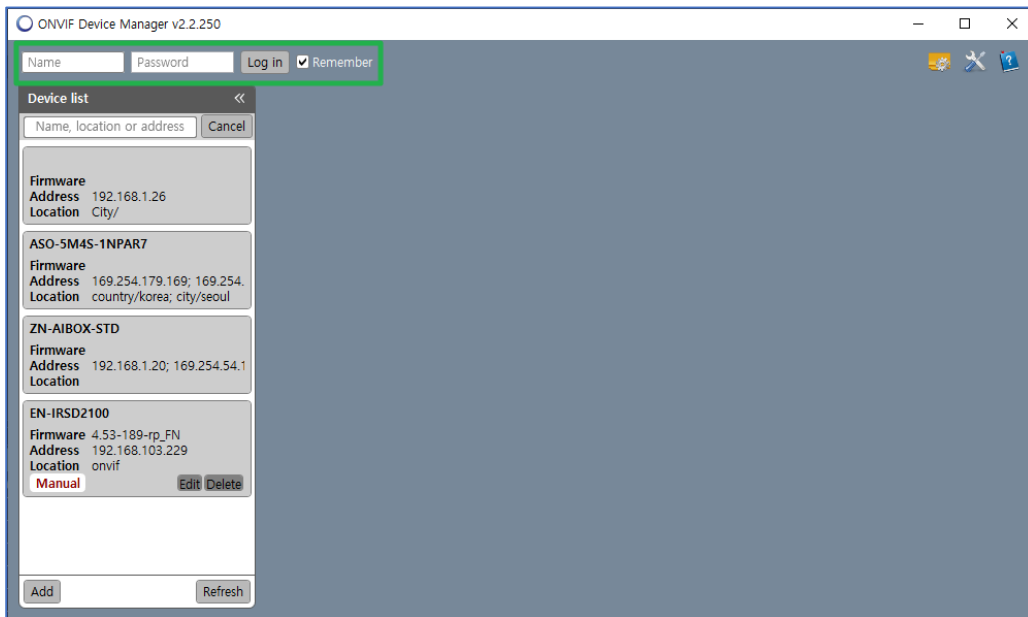
This screen shows a list of thumbnails of the tracked objects. Click on a thumbnail to track that object. The thumbnail of the object currently being tracked is highlighted.

3. How to check the Onvif Service URL

You can resolve the Onvif Service URL using the [Onvif Device Manager](#)

The device you want to check, and your PC must be connected to the same network.

1. Download the program : <https://sourceforge.net/projects/onvifdm/>
2. Install and run
3. Enter your Onvif account information and click the 'Login' button



Select the device -> select Identification -> check the Service URL

