



spark
Italian inSight

Argo Client User Manual V1.2



Confidentiality Notice

Copyright© 2024 Spark. All rights reserved.

This document is authored by Spark and is Spark intellectual property, including the copyrights in all countries in the world. This document is provided under a license to use only with all other rights, including ownership rights, being retained by Spark. This file may not be distributed, copied, or reproduced in any manner, electronic or otherwise, without the express written consent of Spark.



Installation and system requirements

1. Argo software is divided into three modules: Argo Client, Argo Config and Argo Recorder. The following content will provide a basic introduction to these three applications:

1.1 Argo Client and Argo Config

Argo Client installation file contains two modules: Argo Client and Argo Config.

- Argo Client: for monitoring real-time images, e-maps, playback, export images, etc.
- Argo Config: for managing users and connected devices, set events, etc.

1.2 Argo Recorder

Use setup_Spark_Argo_Recorder.exe installation file to install Argo Recorder. Argo Recorder will start automatically when the Windows system starts. Note that Argo Config and Argo Client applications can only be used once Argo Recorder is active. Argo Recorder acts as the recording server.

To avoid hardware overload, it is recommended to use different servers. Install Argo Recorder on one server for recording purposes, and install Argo Client and Argo Config on another server to act as the main server for real-time viewing and configuration.

Below are reference values to facilitate users the calculation of their specific server requirement. The specific server requirements may vary according to different scenarios.

- CPU: Allocate 90 CPU marks per camera. You can search for suitable CPU specifications on the following website (https://www.cpubenchmark.net/high_end_cpus.html)
e.g.: If you need 50 cameras, the required CPU score would be 90 multiplied by 50, resulting in a total of 4500. After calculating the total score, you can visit the above website to find an appropriate CPU. Additionally, we recommend adding a buffer of 1800 points to ensure the system operates perfectly.
- RAM: 160GB or more
- Operating system: Windows 10(64-bit)
- HDD: Requirement varies depending on camera quantity, recording time and resolution.
 - 1 camera recording 20MP for 24hrs requires 211GB.
 - 1 camera recording 5MP for 24hrs requires 63GB.
 - 1 camera recording 2MP for 24hrs requires 42GB.

2. System Requirement

- Spark Client + Config minimum system requirements
CPU: Intel Core i5 @ 2.7GHz RAM 4GB



Disk space: 500 MB free disk space

Graphics Card: 1GHz, 1GB RAM

Screen Resolution: 1920x1080 Network Card Gigabit Ethernet

Operating System: Windows 8.1(64-bit); Windows 10(64-bit); Windows 11 (64-bit)

- Spark Player minimum system requirements

CPU: Intel Core i5 @ 2.7GHz RAM 4GB

Graphics Card: 1GHz, 1GB RAM Screen Resolution: 1024x768

Operating System: Windows 8.1(32-bit or 64-bit); Windows 10(32-bit or 64-bit);

Windows 11(32-bit or 64-bit)

- Spark Recorder minimum system requirements

CPU: Intel Core i5 @ 2.7GHz RAM 8GB

Network Card: Gigabit Ethernet

Operating System: Windows Server 2012 R2; Windows Server 2016; Windows

7SP1(64bit); Windows 8(64-bit); Windows 8.1(64-bit); Windows 10 (64-bit); Windows

Server 2019; Windows Server 2022; Windows 11(64-bit)



Table of contents

0. START	6
0.1 LOG IN	6
0.2 ARGO CLIENT INTERFACE	8
1. VIEWS	9
1.1 ADD VIEW	9
1.2 AUTOMATIC GENERATE VIEW	10
1.3 EDIT/DELETE VIEW	10
1.4 ADD/DELETE DEVICE ON VIEWS	11
2. LIVE VIEW	13
2.1 LIVE VIEW MODE	13
2.2 PLAYBACK	14
3. BATCH EXPORT OF VIDEO FILES	15
3.1 BATCH EXPORT – BATCH EXPORT OF VIDEO FILES	15
3.2 PLAYBACK MODE –BATCH EXPORT OF VIDEO FILES	15
4. EXPORTED FILES	17
4.1 VIEW EXPORTED FILE STATUS AND RECORDS	17
4.2 DELETE EXPORTED FILE RECORDS	17
5. NOTIFICATION	18
5.1 VIEW EXPORT NOTIFICATIONS	18
6. MAPS	19
6.1 ADD/EDIT/DELETE MAPS	19
6.2 ADD/EDIT/DELETE MAPS FROM VIEWS	20
7. FOLDER	24
7.1 ADD/EDIT/DELETE VIEW FOLDER	24
7.2 ADD/EDIT/DELETE MAPS FOLDER	25
8. ALARM	27
8.1 ALARM	27
8.2 REAL-TIME ALARM OPTIONS	28
8.3 ALARM HANDLING / ALARM FORWARDING / ALARM MANAGING	28
8.4 INFORMATION / LOG	30
9. AUDIO MIXER	32
9.1 AUDIO VOLUME ADJUSTMENT	32
10. PTZ CONTROL	33
10.1 CAMERA PTZ CONTROL	33
11. ACCESS CONTROL	34



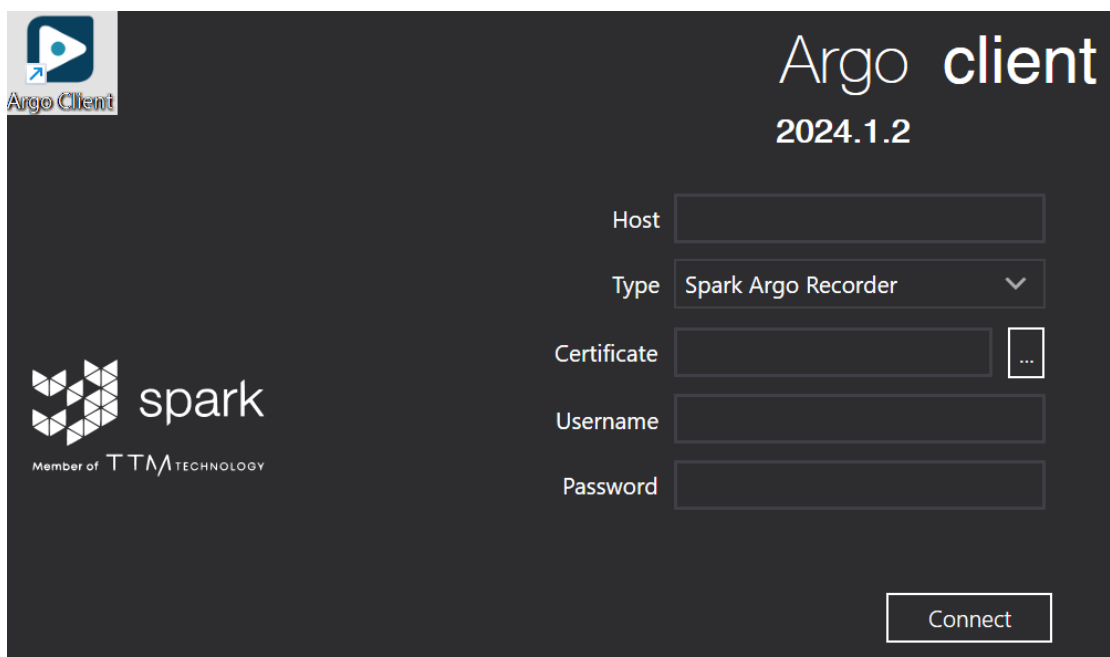
11.1 REAL-TIME ACCESS CONTROL	34
11.2 RECORD MODE	34
11.3 ACCESS ID STATUS	37
12. AI SERVICE	38
12.1 REAL-TIME AI SERVICE	38
12.2 RECORD MODE	38
13. ANALYTICS DASHBOARD	42
13.1 ADD/EDIT/DELETE/EXPORT ANALYTICS DASHBOARD	42
14. RESTORE LAYOUT	45
15. ARGO CONFIG	46
16. OPTIONS	47
16.1 LANGUAGE	47
16.2 INTERFACE	47
16.3 SNAPSHOT	48
16.4 DRAWING	49
16.5 USER INTERACTION MODE	50
16.6 JOYSTICK	50
16.7 NOTIFICATION	51
16.8 ALARM	51
16.9 ADVANCED	53
16.10 WATERMARK	54
17. USER	55
17.1 CHANGE PASSWORD	55
17.2 LOGOUT/CLOSE	55
18. ABOUT	56



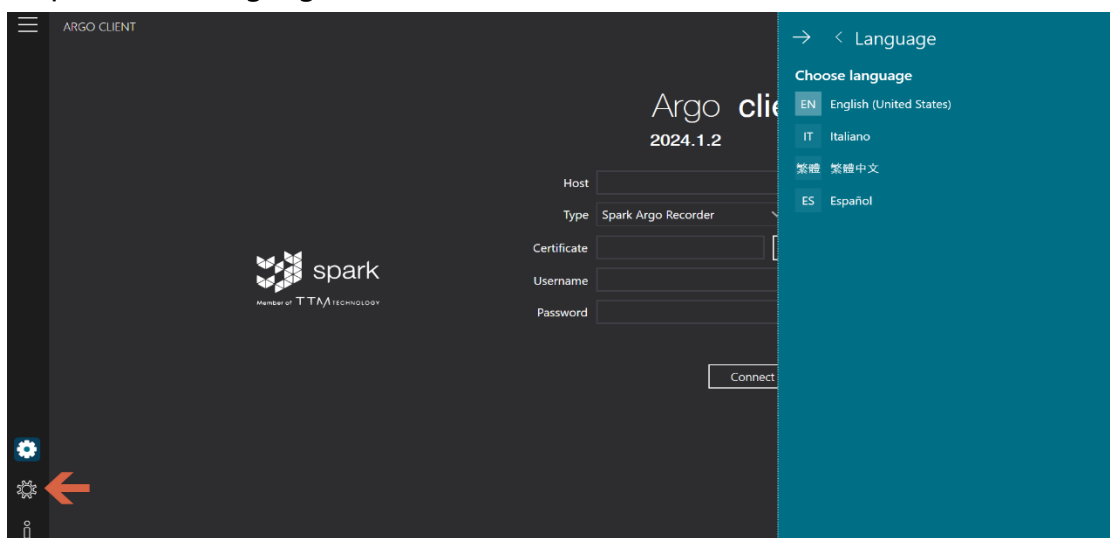
0. START

0.1 Log in

Step 1. Double click Argo client to open login window



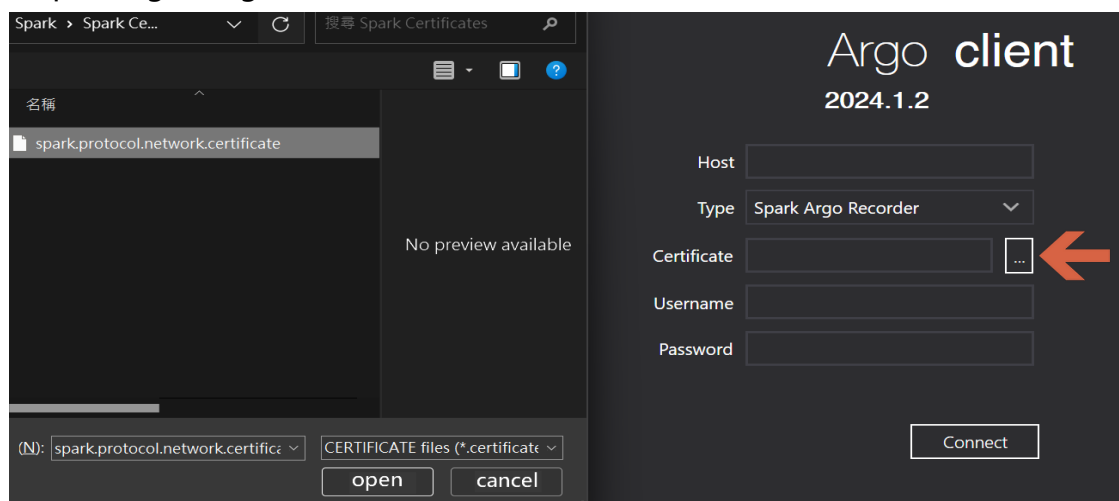
Step 2. Select language.



- Click **[Options]** at the bottom left and then click **[Language]**.
- After selecting the language, click **[Save]** to save the settings.

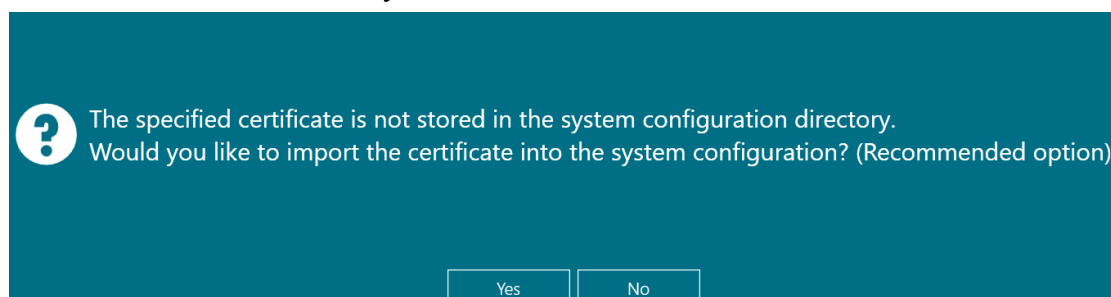


Step 3. Log in Argo client



- Server: Insert Spark Recorder server' s IP address or insert default IP **127.0.0.1**
- Type: Spark Argo Recorder (default)
- Certificate: Click [...] to automatically navigate to the default authentication folder and select the file.
- Username: **admin** (default)
- Password: **admin** (default)
- Click [**Connect**]

Step 4. On first login, you will be asked if you want to import the certificate. Click Yes to save the certificate in the system.





Step 5. After logging in, the system will ask to change the password. The new password must contain at least one special character, one upper case letter, one lower case letter and a minimum length of 8 characters.

i Change User Password

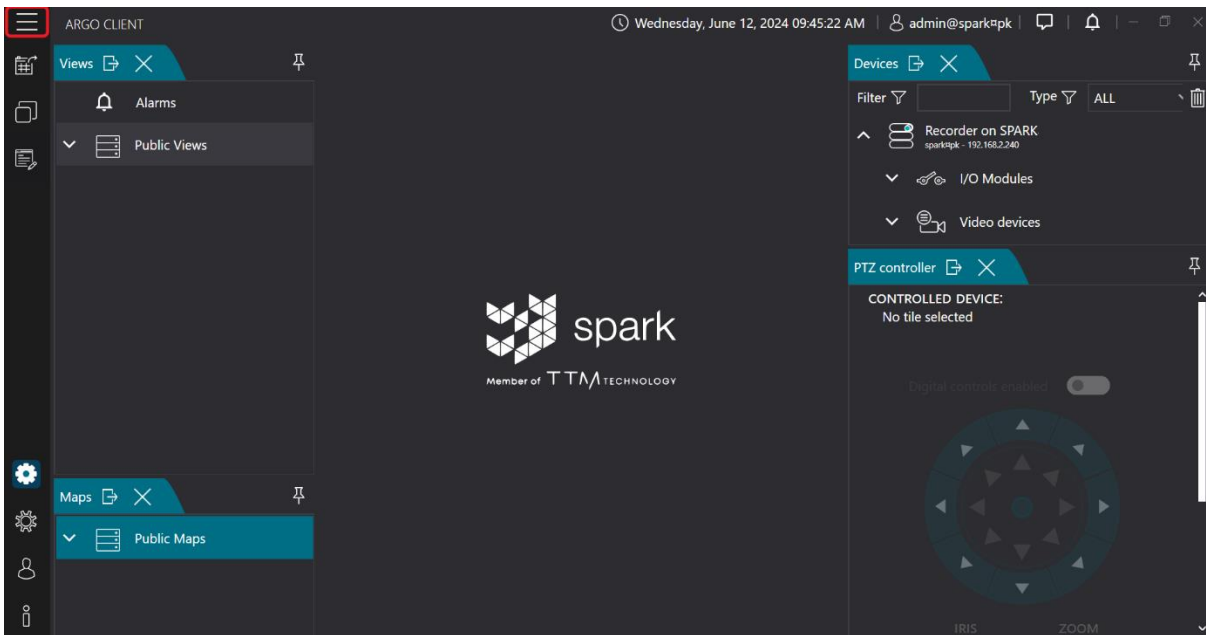
Username

Old password

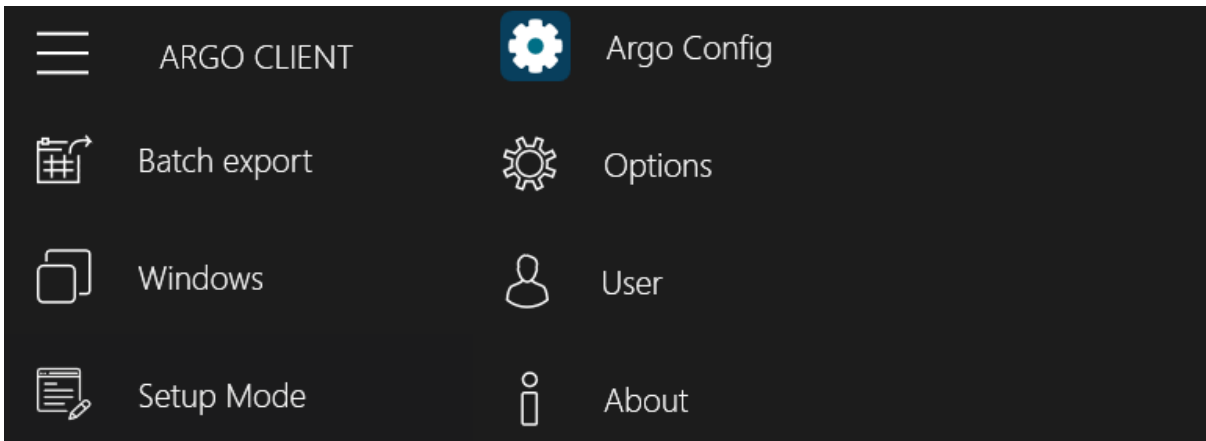
New password

Confirm password

0.2 Argo Client interface



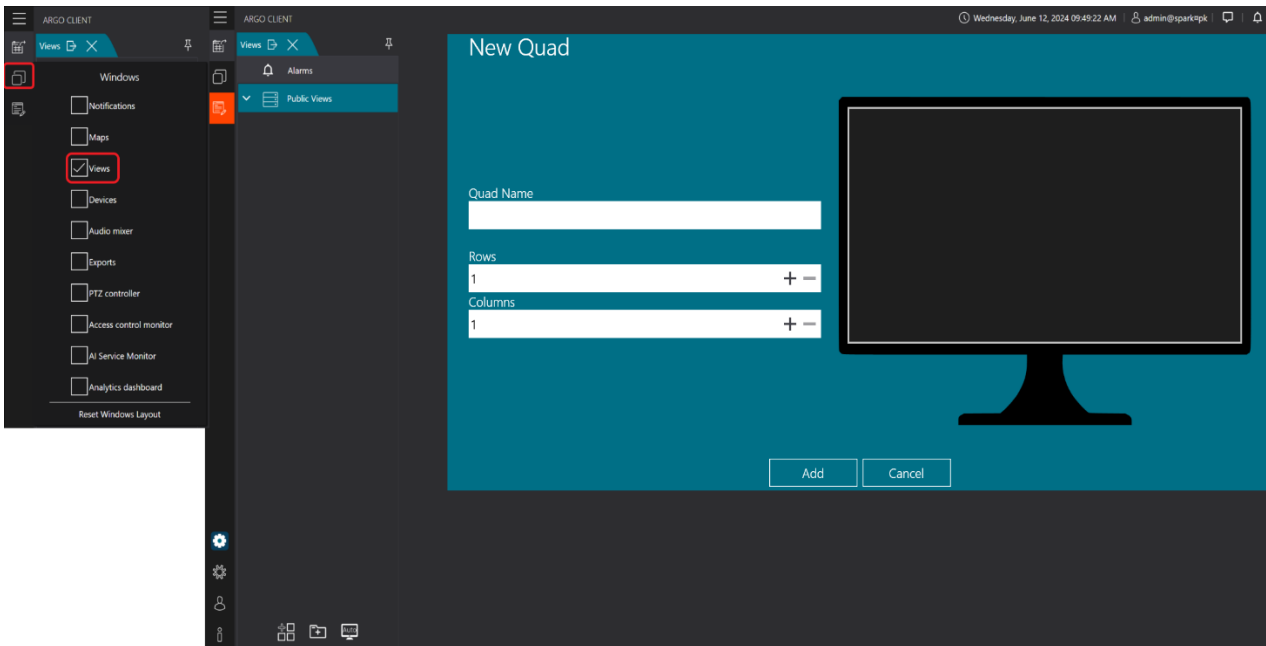
- Click the [☰] icon at the top left to browse the icon text



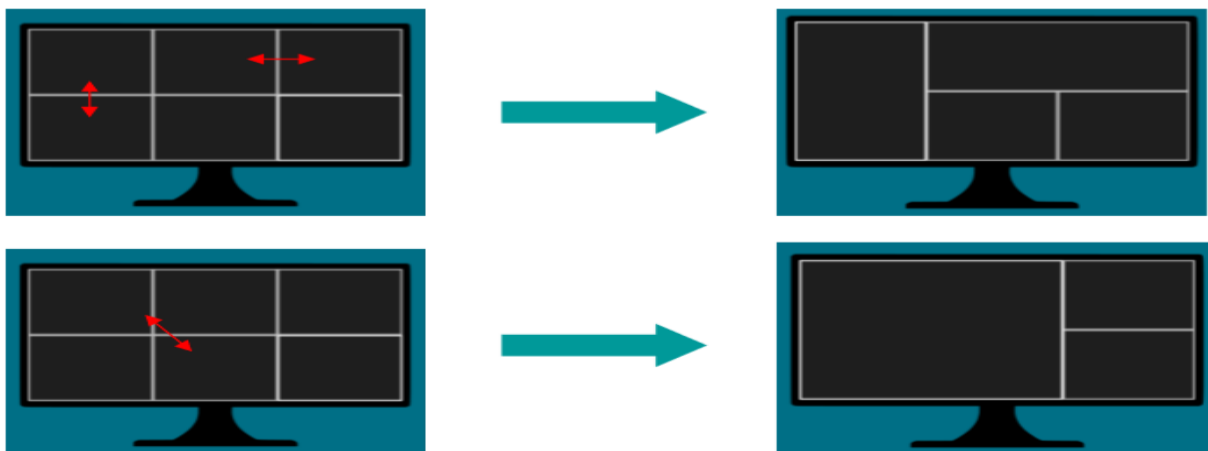
- Menu: Batch export / windows / Setup mode / Argo Config / options / user / about

1. VIEWS

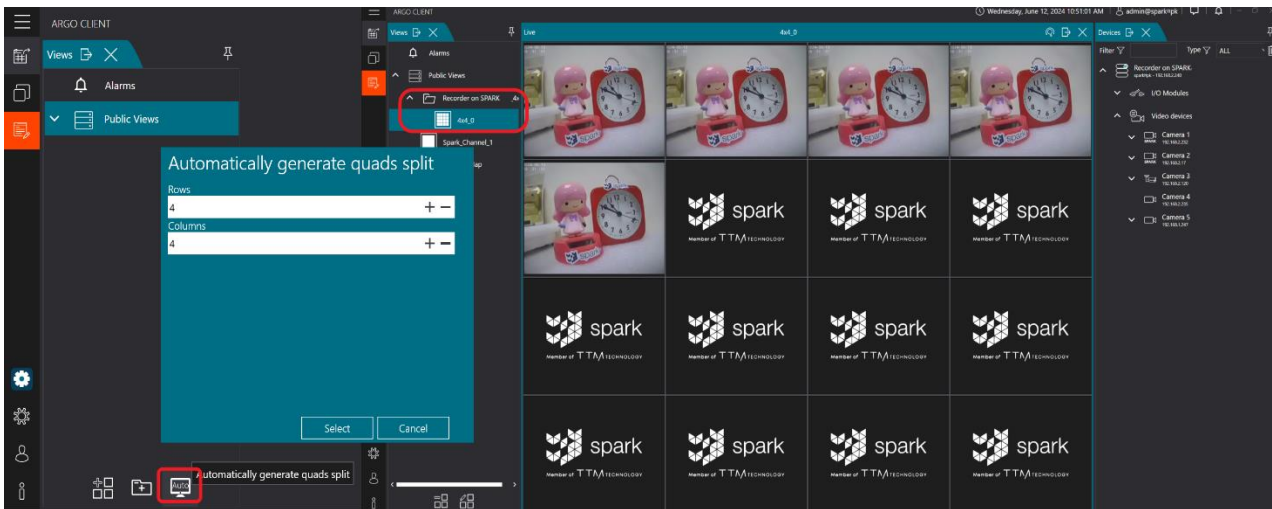
1.1 Add view



- Click the **[window icon]** then select **[views]**
- Click the **[edit icon]**. The icon turns orange in edit mode.
- Click **[+]** below the view list to add a new view.
- Name: insert name of the view.
- Row/Columns: add rows and columns as needed.
Rows and columns range: from 1 to 10 rows/columns.
- The layout can be freely adjusted by dragging the window dividers, as shown in the example below.



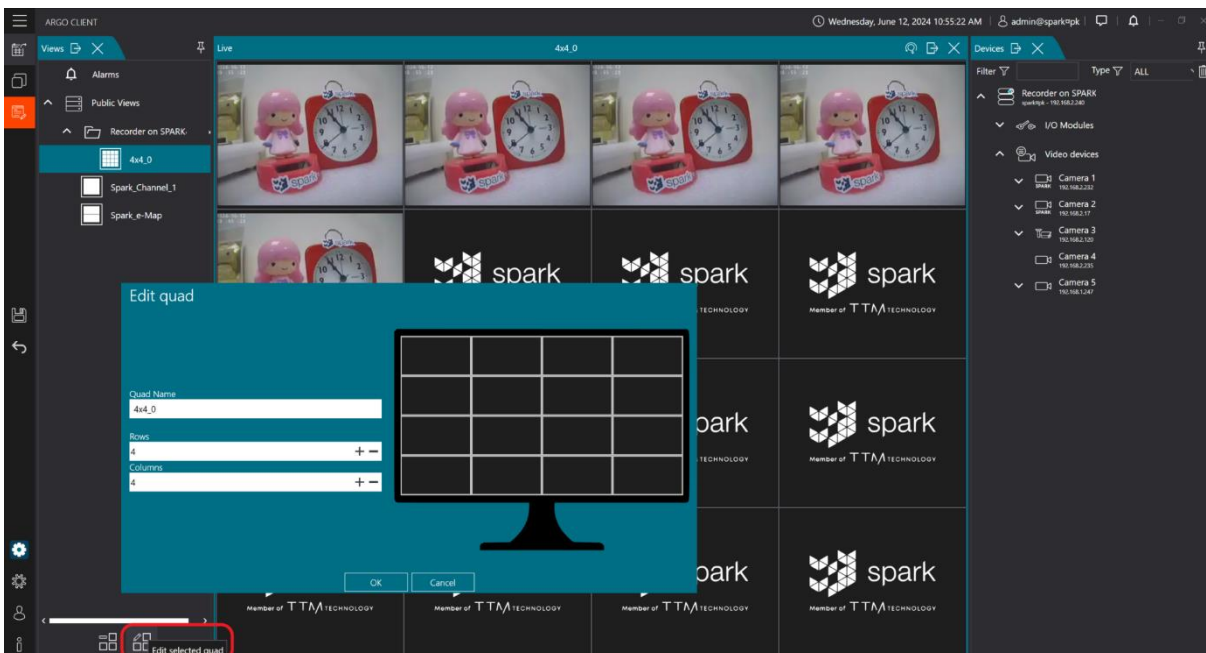
1.2 Automatic generate quads split



- Function: create a folder containing the specified rows and columns screen layout, and automatically add devices to the screens.
- Click the **[window icon]** then select **[views]**
- Click the **[edit icon]**. The icon turns orange in edit mode.
- Click **[Auto]** below the view list.
- Row/Columns: add rows and columns as needed.
Rows and columns range: from 1 to 10 rows/columns.

1.3 Edit/delete view

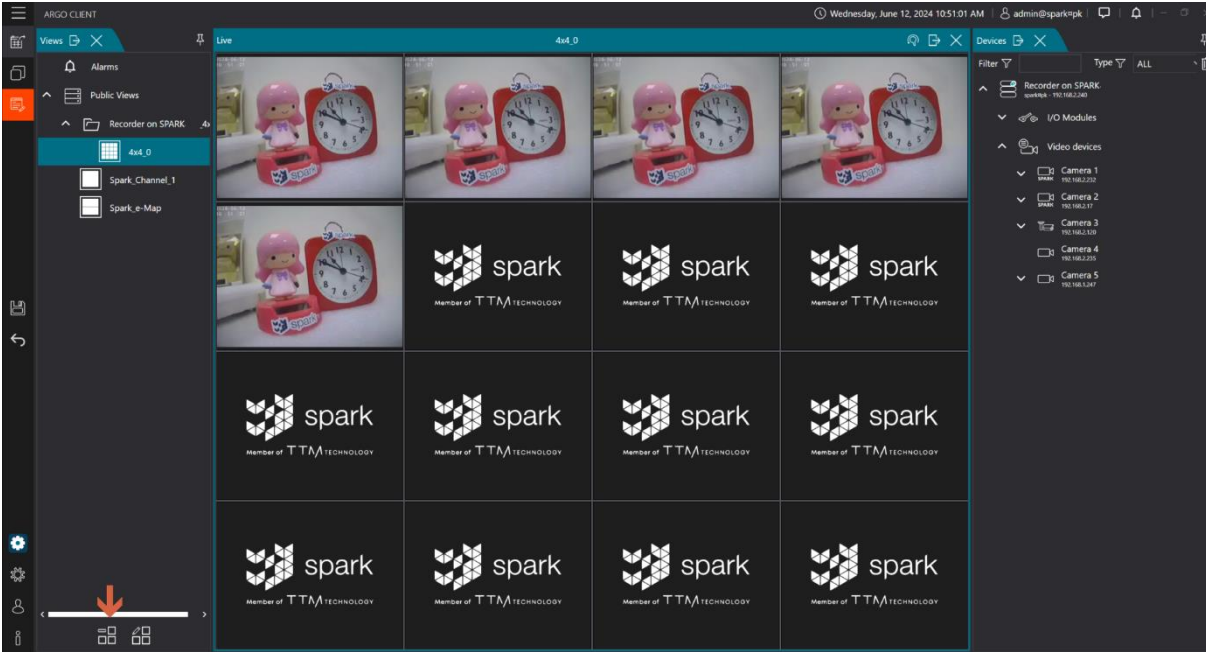
1. Edit view



- Click the **[window icon]** then select **[views]**

- Click the **[edit icon]**. The icon turns orange in edit mode.
- Click the **[pencil icon]** below the view list.

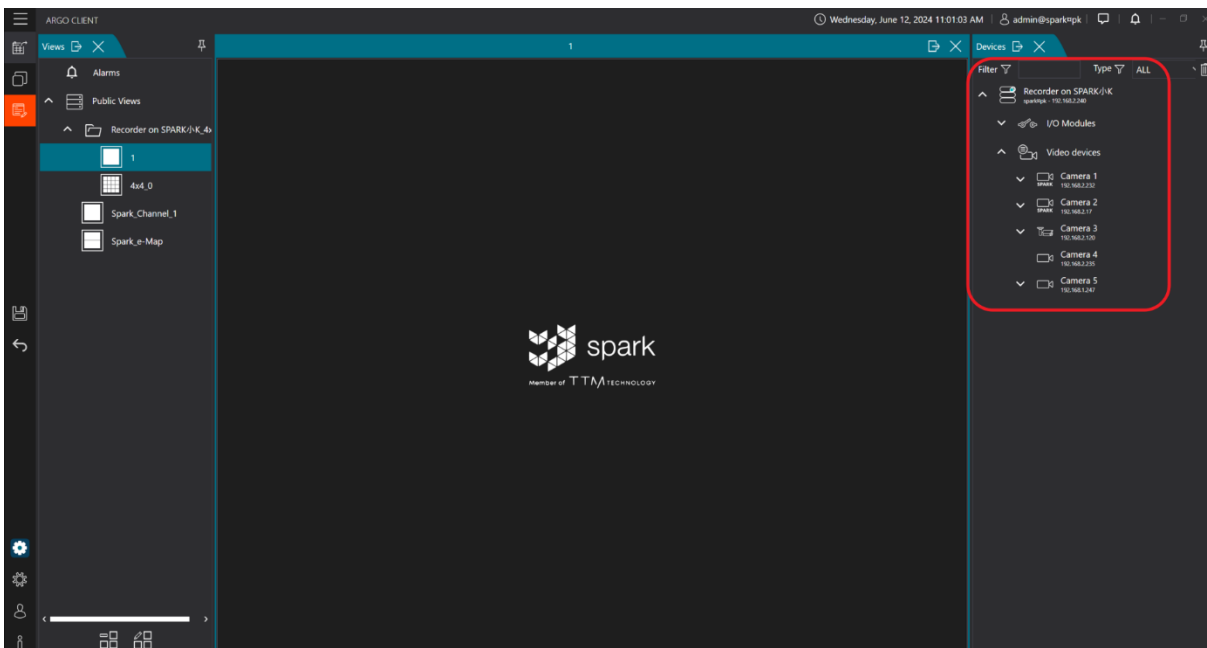
2. Delete view



- Click the **[window icon]** then select **[views]**
- Click the **[edit icon]**. The icon turns orange in edit mode.
- Click the **[-]** below the view list.

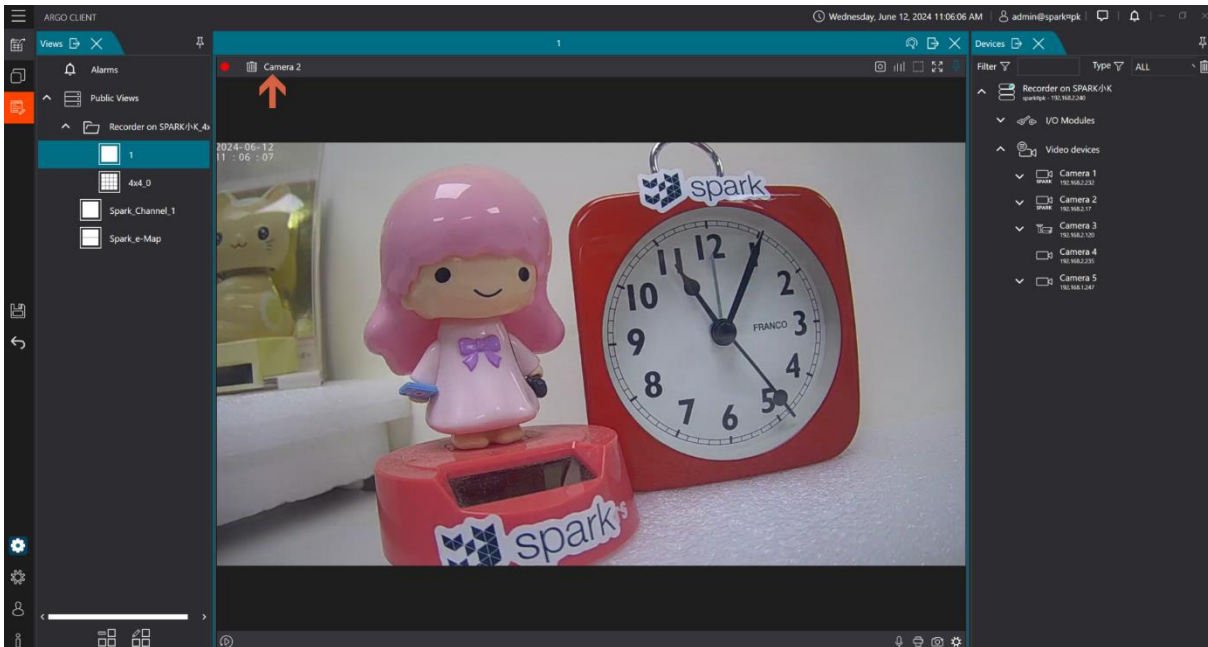
1.4 Add/delete device on views

1. Add device to the view



- Click the **[window icon]** then select **[views]**
- Click the **[edit icon]**. The icon turns orange in edit mode.
- Drag the camera you want to add from the device window into the view.

2. Delete device to the view

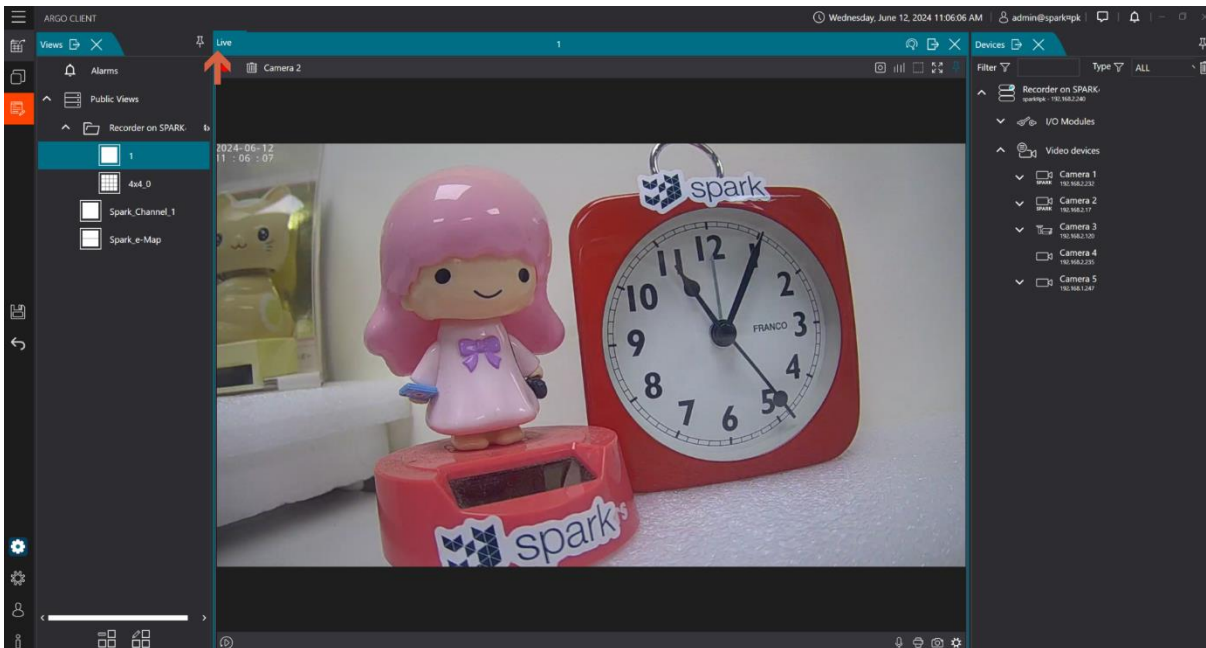


- Click the **[window icon]** then select **[views]**
- Click the **[edit icon]**. The icon turns orange in edit mode.
- Hover the mouse over the camera you want to delete and click on the **[Trash can icon]** to delete the camera.

Note: double click on the image to maximize window and edit view.

2. LIVE VIEW

2.1 Live view mode



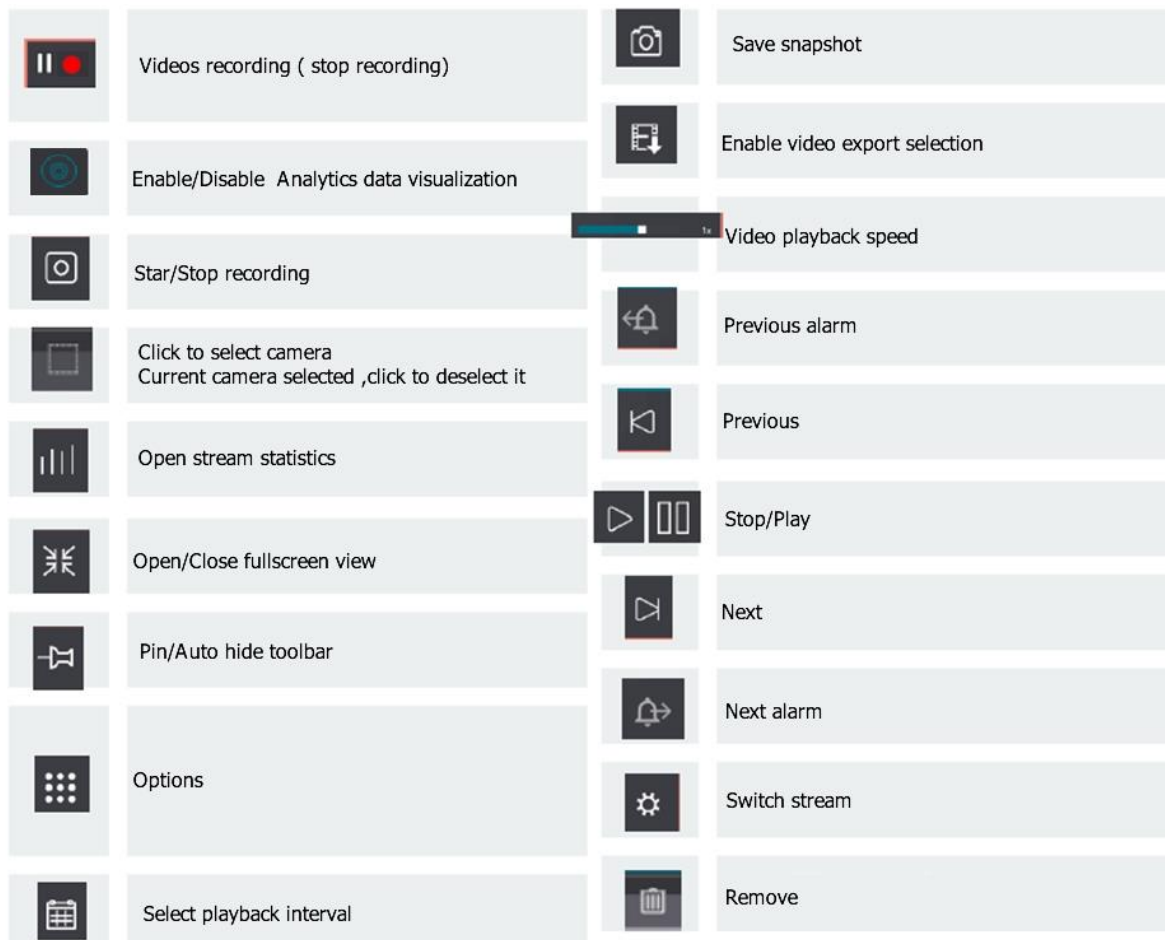
- Click the **[window icon]** then select **[views]**. The default settings in live view mode.
- Hover the mouse over the camera in live view mode that you want to edit, or double-click to view and edit.

	Videos recording		Remove camera
	Start manually recording		Instant playback
	Open stream statistics		Print
	Click to select camera Current camera selected ,click to deselect it		Save snapshot
	Open/Close fullscreen view		Switch stream
	Enable/Disable Audio channel		Pin/Auto hide toolbar
	Enable/Disable Analytics data visualization		

2.2 Playback



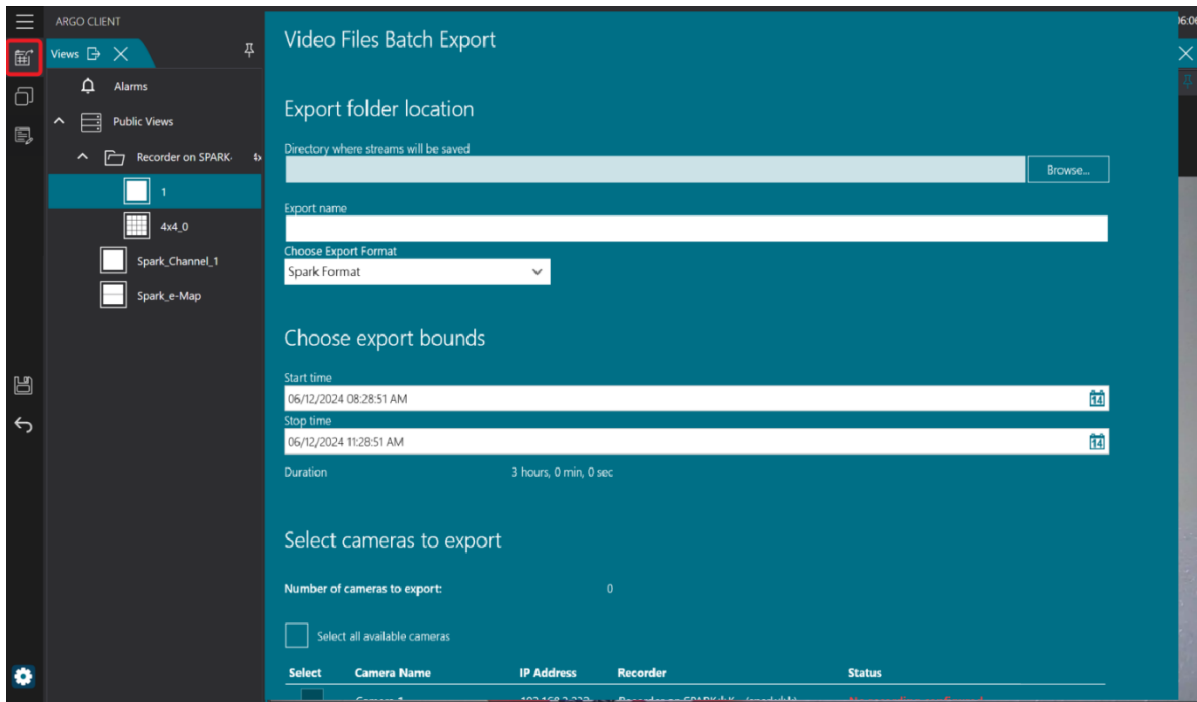
- Click the **[window icon]** then select **[views]**. The default settings in live view mode.
- Click the **[go to archive]** to enter playback mode.
- Hover the mouse over the camera in playback mode that you want to edit, or double-click to view and edit.



3. BATCH EXPORT OF VIDEO FILES

3.1 Batch Export - Batch Export of Video Files

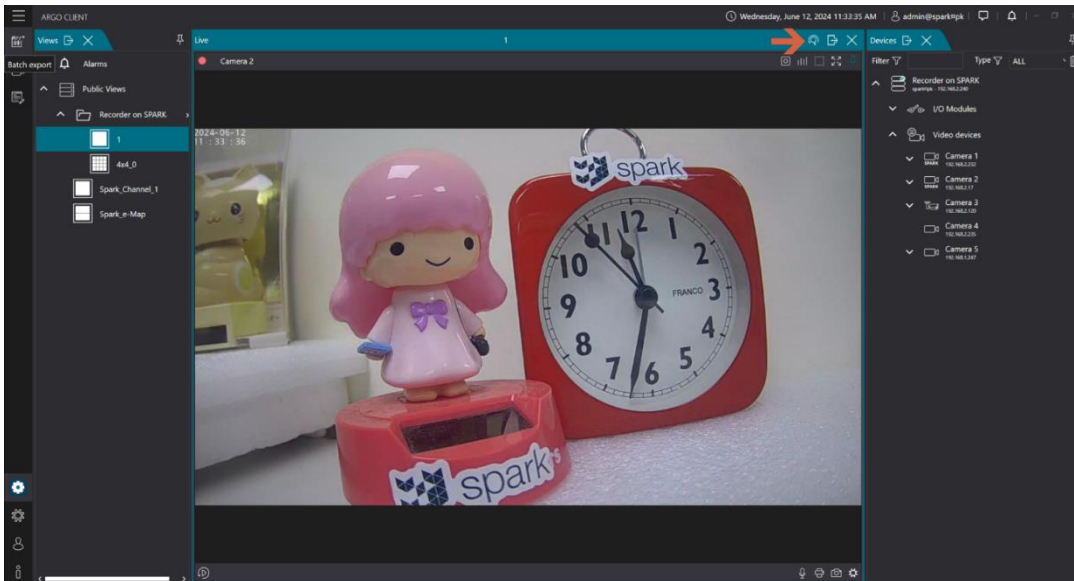
- Function: Export video files in a single screen format



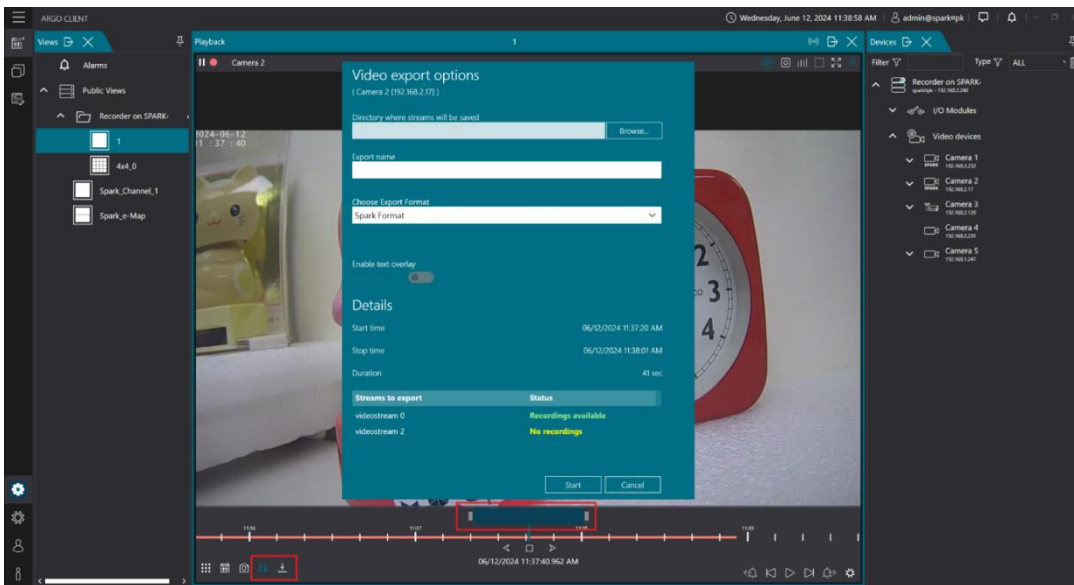
- Click **[Batch export]**
- Export folder location: select the folder where the video files will be exported.
Save directory: click [Browse] to select the folder for exporting video files.
Export name: insert the name for the exported file.
Export format: select from Spark format/MP4/MOV/MKV/AVI.
- Select export start and end time:
Start time: click the **[Calendar Icon]** to choose the date and time.
End time: click the **[Calendar Icon]** to choose the date and time.
- Select cameras to export: select the cameras video files you want to export.
- Click **[start]** to begin export

3.2 Playback mode -Batch Export of Video Files

- Export video files from the current view, with multiple screens exported as a single screen format.



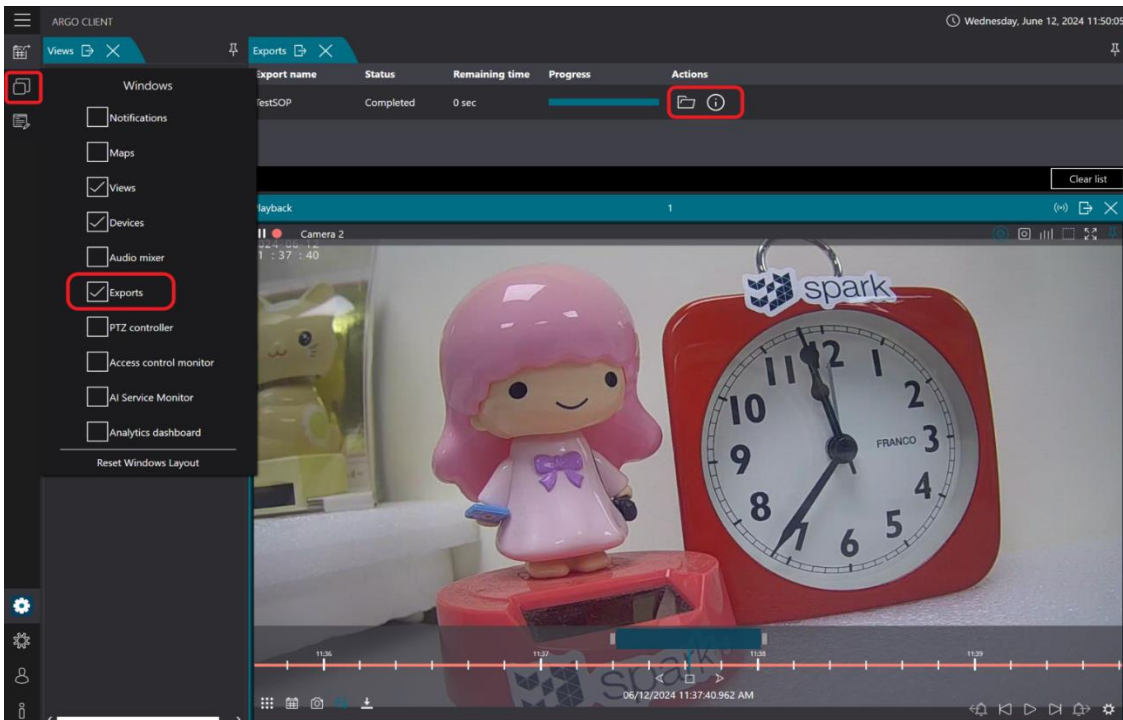
- Click the **[window icon]** then select **[views]**. The default settings in live view mode.
- Click the **[go to archive]** to enter playback mode.






- Click **[Enable Video Export]** and select the segment to export, then click **[Download]**.
- Video Export Settings:
 - Save directory: click **[Browse]** to select the folder for exporting video files.
 - Export name: insert the name for the exported file.
 - Export format: select from Spark format/MP4/MOV/MKV/AVI.
 - Enable text overlay

4. EXPORTED FILES

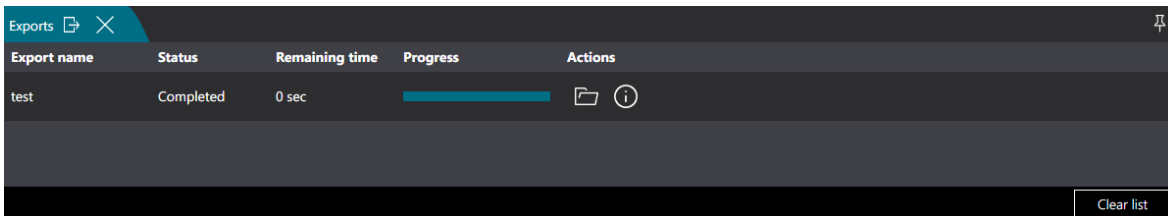
4.1 View exported file status and records



- Click the **[window icon]** then select **[exported files]**. The window will display the status of the exported files.
- Response action

	Cancel export
	Open destination folder
	View export details

4.2 Delete exported file records





- Click the **[window icon]** then select **[exported files]**.
- Click **[clear list]** to delete the record of exported files.

5. NOTIFICATION

5.1 View export notifications



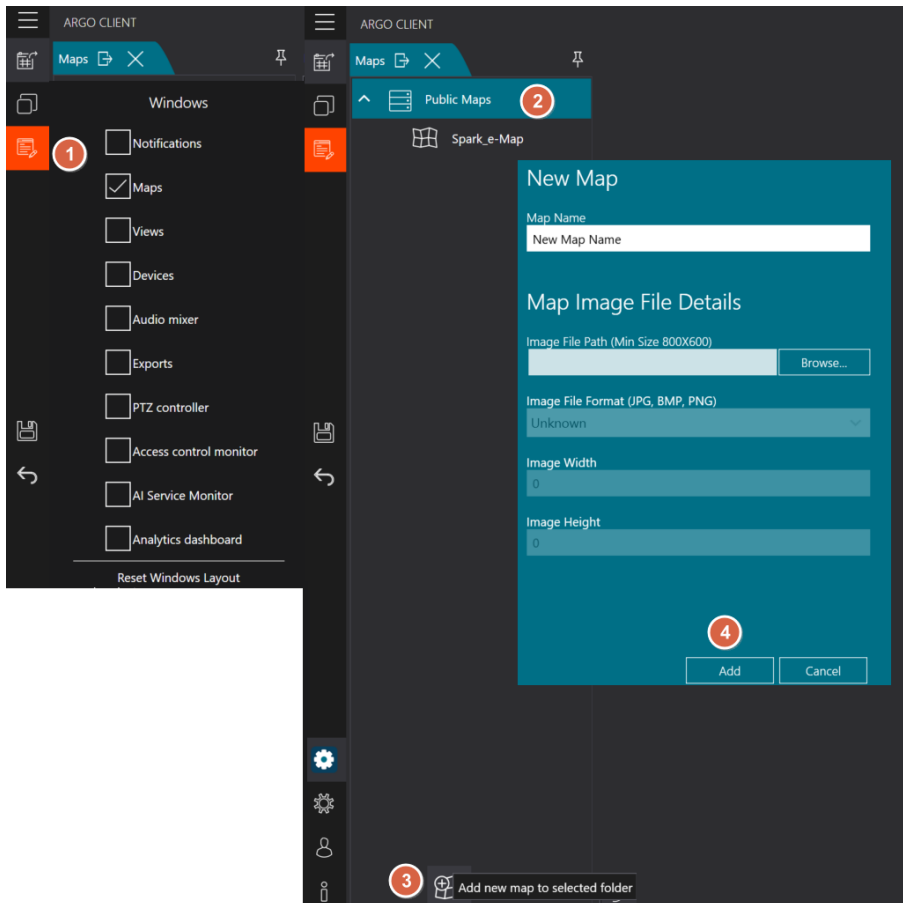
- Click the **[window icon]** then select **[notifications]**.
- Browse notifications for completed or failed status of video export processes.

	Delete notifications
	View export details

6. MAPS

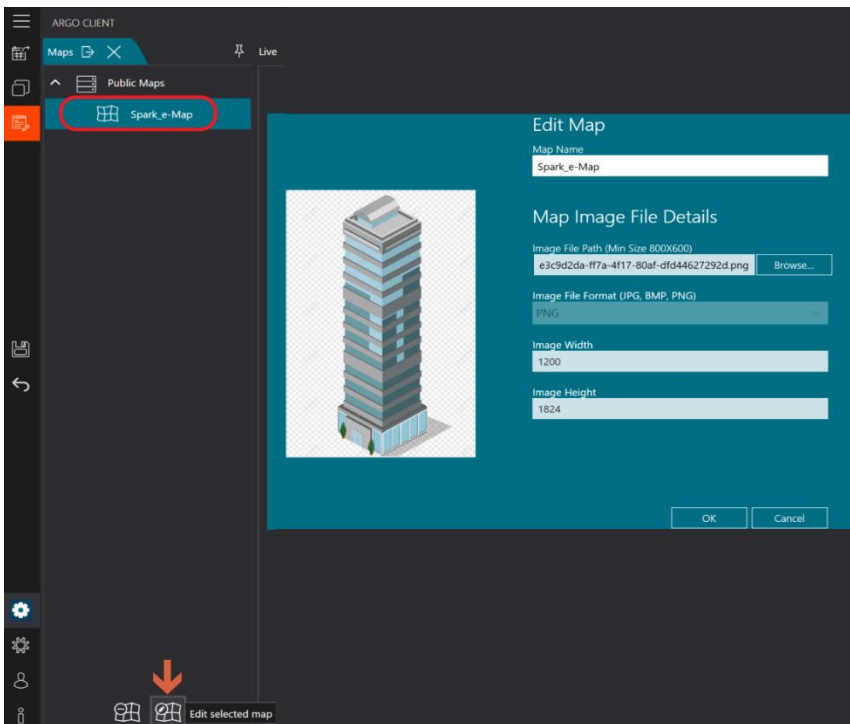
6.1 Add/Edit/Delete Maps

1. Add Maps



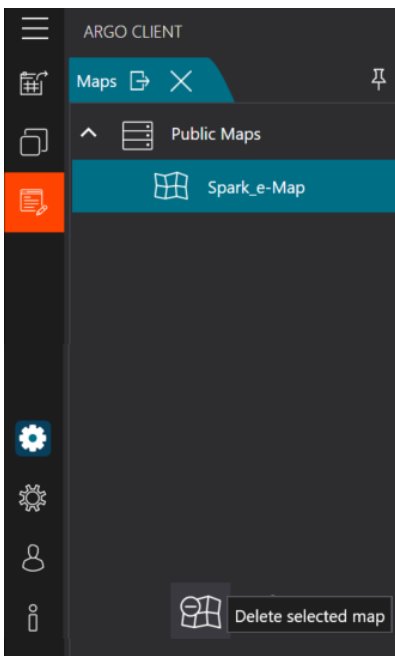
- Click the **[window icon]** then select **[Maps]**.
- Click the **[edit icon]**. The icon turns orange in edit mode.
- Click on **[Maps icon]** and then click **[+]**
- New Maps
Maps name: insert name for the Maps
- Image information
Image path: click on the right to browse and upload the digital map image file.
Image format: After uploading the digital map image file, the system will automatically display the format, width, and length of the image file, eliminating the need for manual input.

2. Edit Maps



- Click the **[window icon]** then select **[Maps]**.
- Click the **[Setup Mode]**. The icon turns orange in edit mode.
- Select the Maps you want to edit and click the **[Edit selected map]**

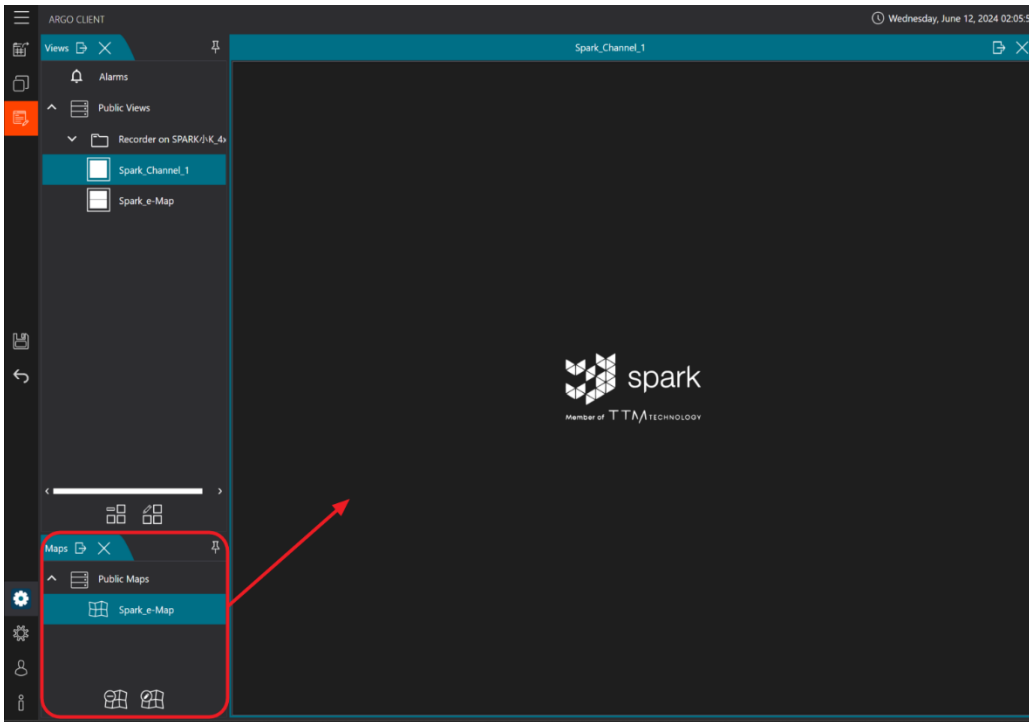
3. Delete Maps



- Click the **[window icon]** then select **[Maps]**.
- Click the **[Setup Mode]**. The icon turns orange in edit mode.
- Select the Maps you want to edit and click the **[-] Delete selected map**

6.2 Add/Edit/Delete Maps from views

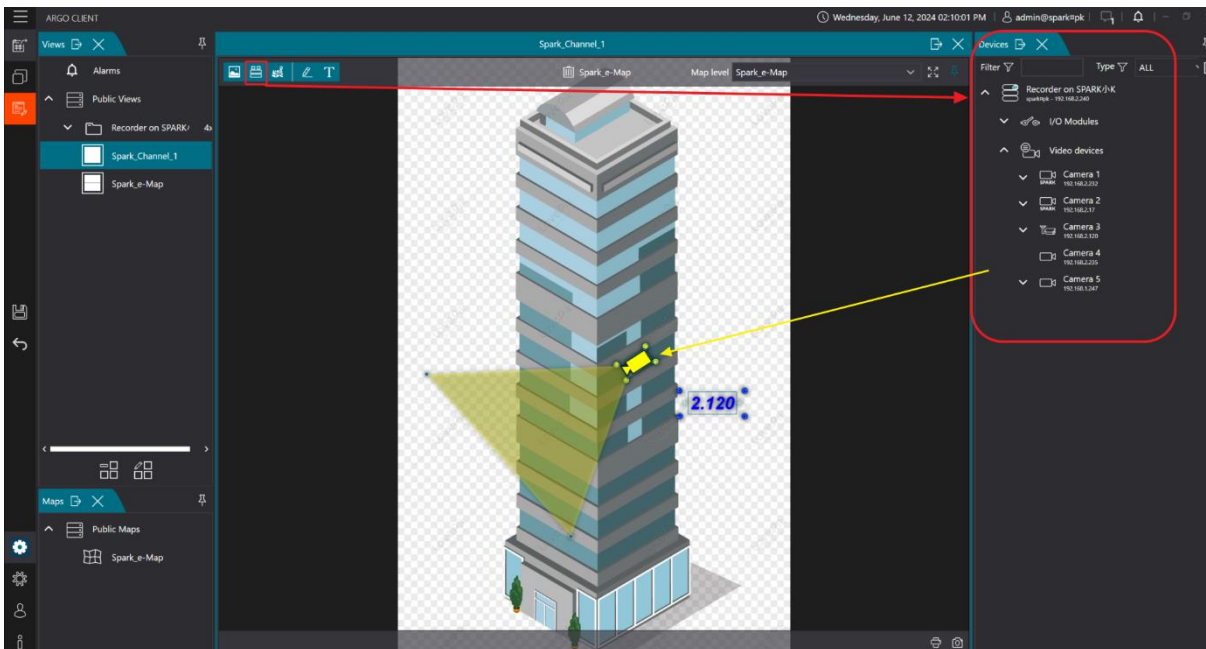
1. Add Maps to view



- Click the **[window icon]** then select **[Views and Maps]**.
- Drag the desired email to the quad view.

2. Edit Maps to view

Step 1. Add devices to the Maps



- Click the **[window icon]** then select **[views]**.
- Click the **[Steup Mode]**. The icon turns orange in edit mode.



- Click [**Display Device Page List View**] on the toolbar from Maps to open the device window.
- Drag the desired cameras from the device window to the corresponding positions on the Maps.

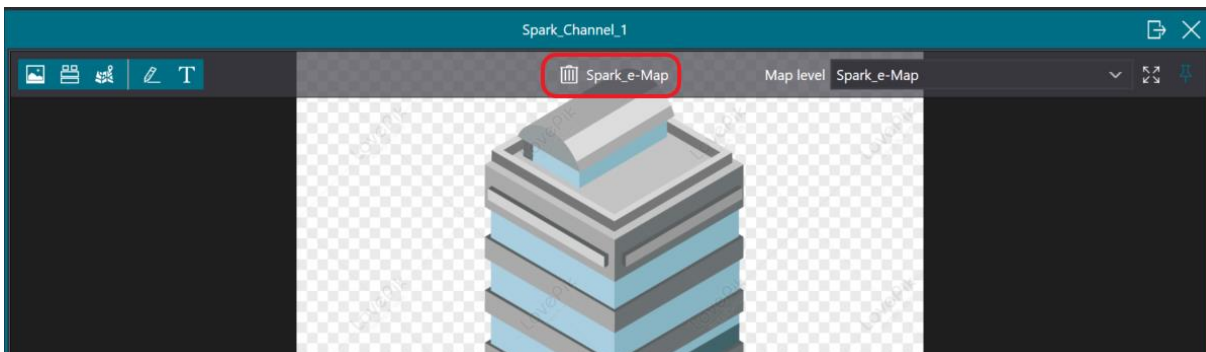
Step 2. Edit map details



- Double click on the image to maximize window and edit view.
- Click on the object you want to edit (refer to the list below).

	Map Image Change		Remove selected Objects
	Display Device Page List View		Print
	Draw hot zone		Save snapshot
	Insert Text		Color list
	Bold Text		Transparency
	Italic Text		Border thickness
	Underlined Text		Font size
	Outline Text		Font type

3. Delete Maps

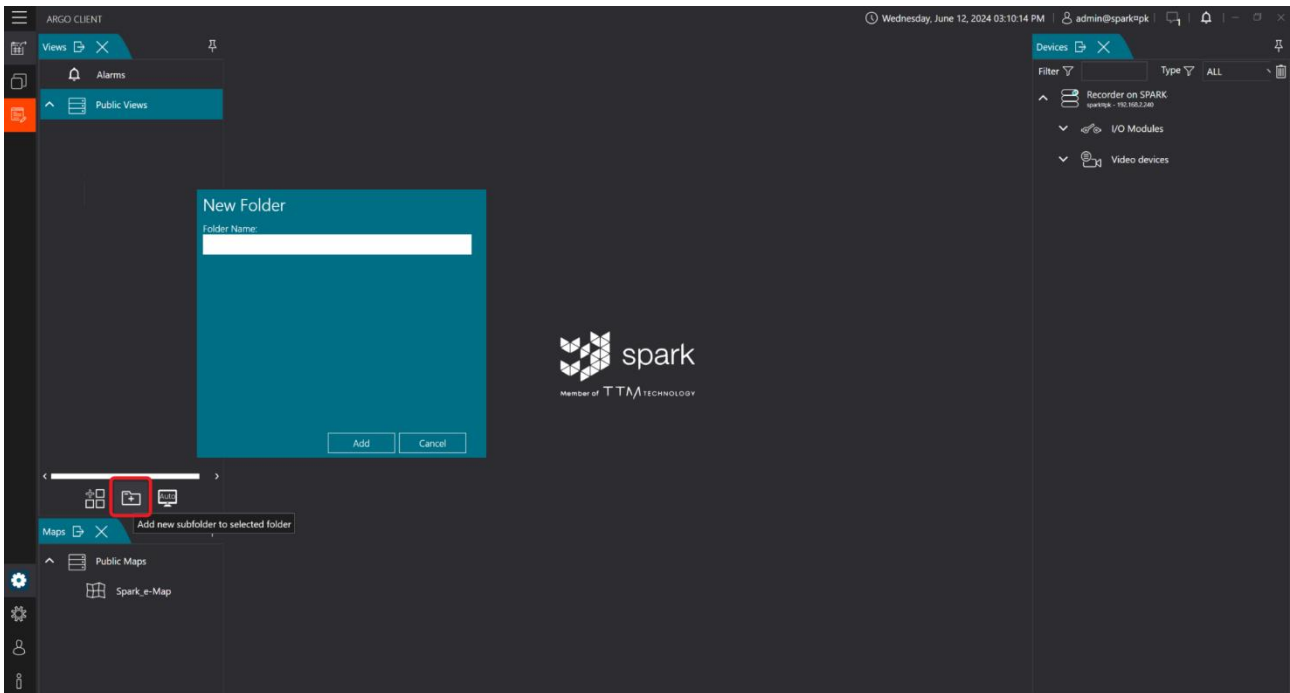


- Click the **[window icon]** then select **[views and Maps]**.
- Hover the mouse over the Maps you want to delete and click on the **[Trash can icon]** to delete the Maps.

7. FOLDER

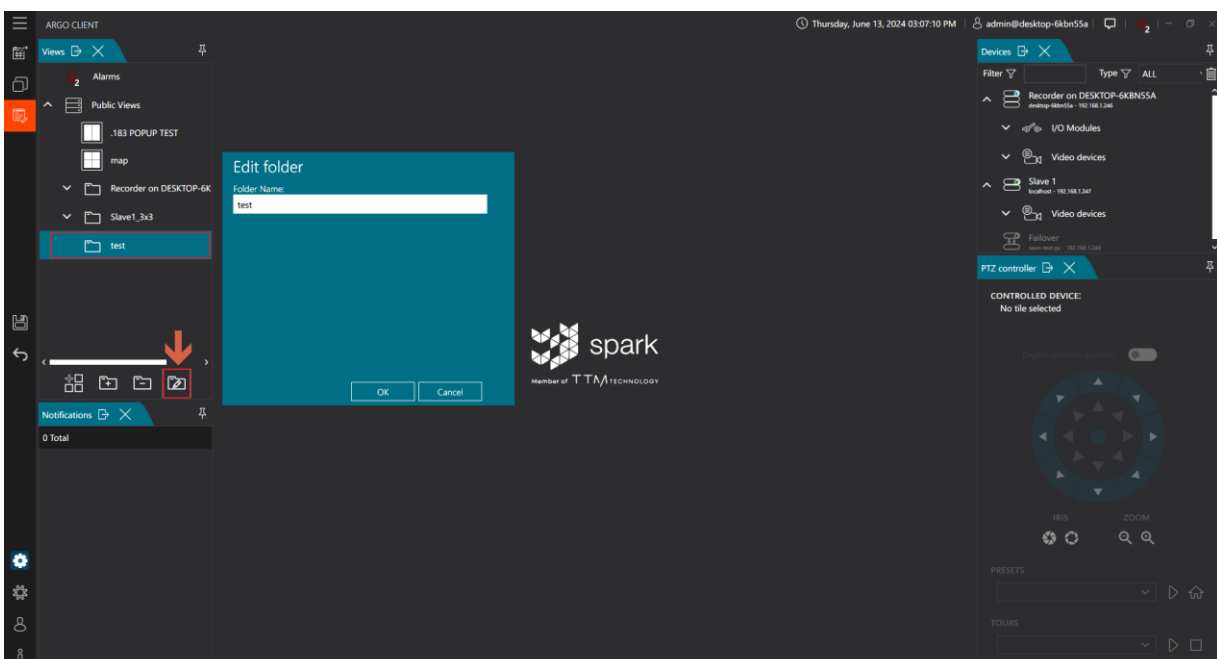
7.1 Add/Edit/Delete view folder

1. Add view folder



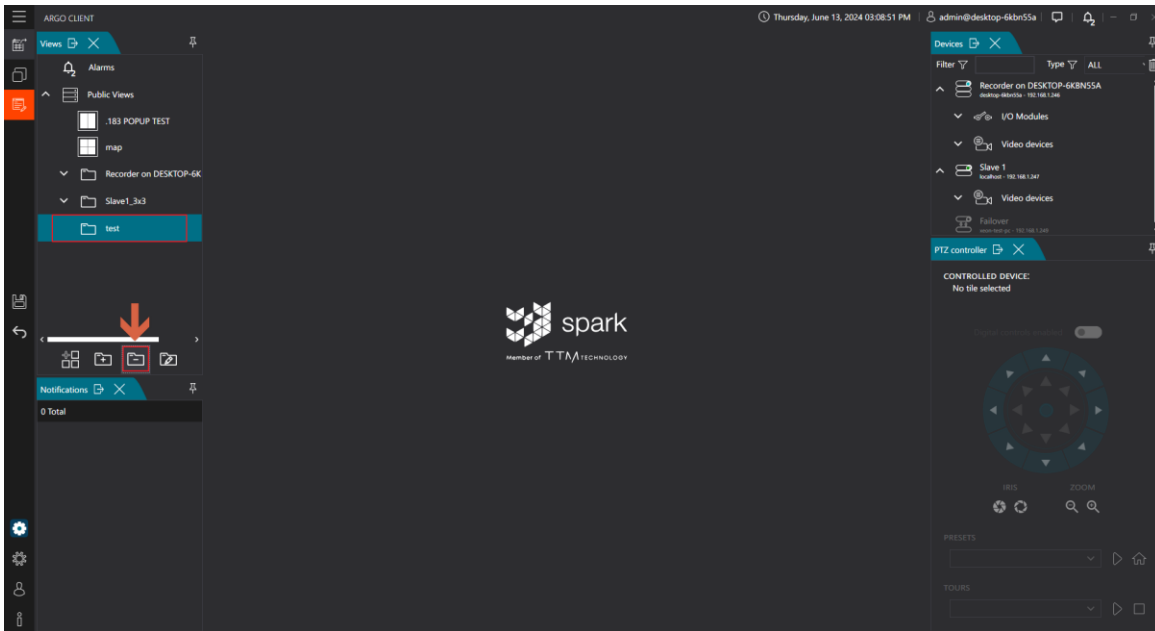
- Click the **[window icon]** then select **[views]**.
- Click the **[edit icon]**. The icon turns orange in edit mode.
- Click the **[+]** folder below **[views]** to add a subfolder to the selected folder
- New folder - folder name: insert the name of the folder to be added

2. Edit view folder



- Click the **[window icon]** then select **[views]**.
- Click the **[edit icon]**. The icon turns orange in edit mode.
- Click the **[pencil folder icon]** below **[Folder]** to edit the selected folder.
- Edit folder - folder name: insert the name of the folder to be edited

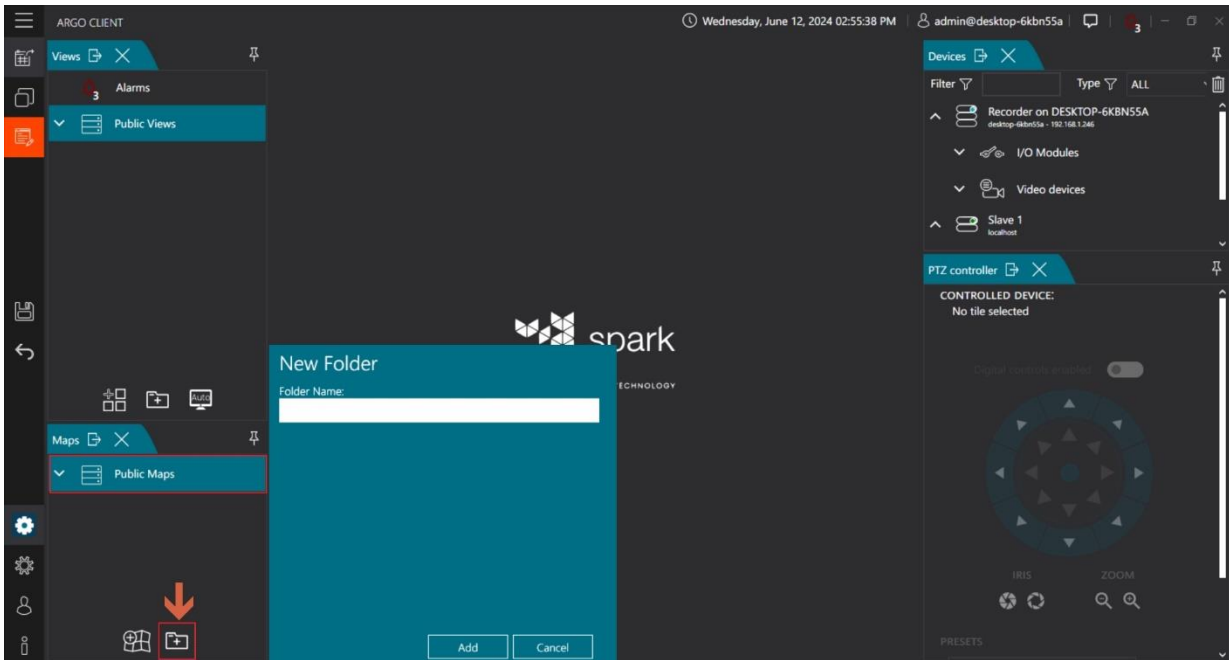
3. Delete view folder



- Click the **[window icon]** then select **[views]**.
- Click the **[edit icon]**. The icon turns orange in edit mode.
- Click the **[folder - icon]** below **[Folder]** to delete the selected folder.

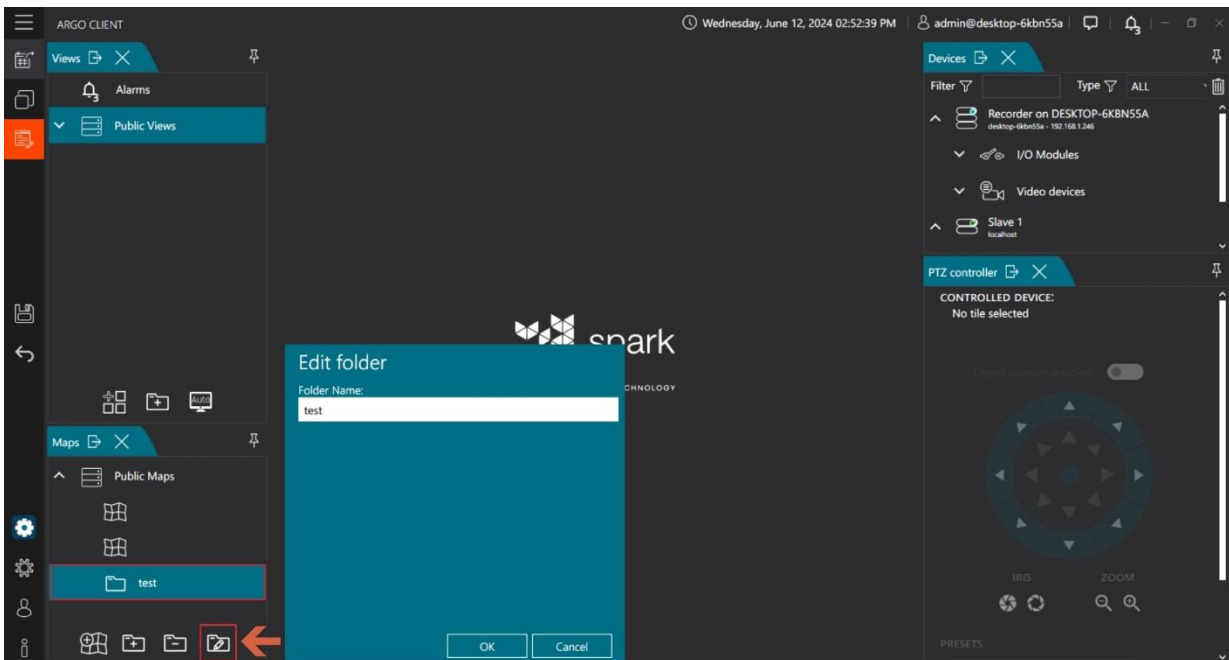
7.2 Add/Edit/Delete Maps folder

1. Add Maps folder



- Click the **[window icon]** then select **[Maps]**.
- Click the **[edit icon]**. The icon turns orange in edit mode.
- Click the **[+Folder icon]** on **[Maps]** to add a new folder.
- New folder - folder name: insert the name of the folder to be added

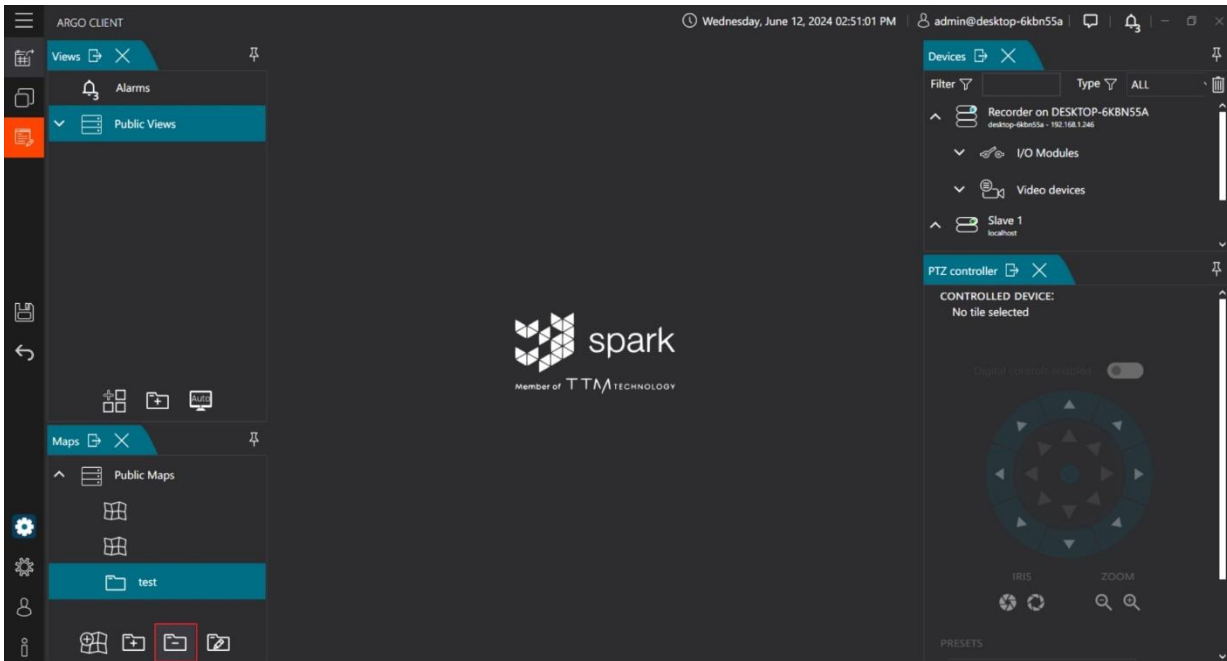
2. Edit Maps folder



- Click the **[window icon]** then select **[Maps]**.
- Click the **[edit icon]**. The icon turns orange in edit mode.

- Click the **[pencil folder icon]** below **[Folder]** to edit the selected folder.
- Edit folder - folder name: insert the name of the folder to be edited

3. Delete Maps folder

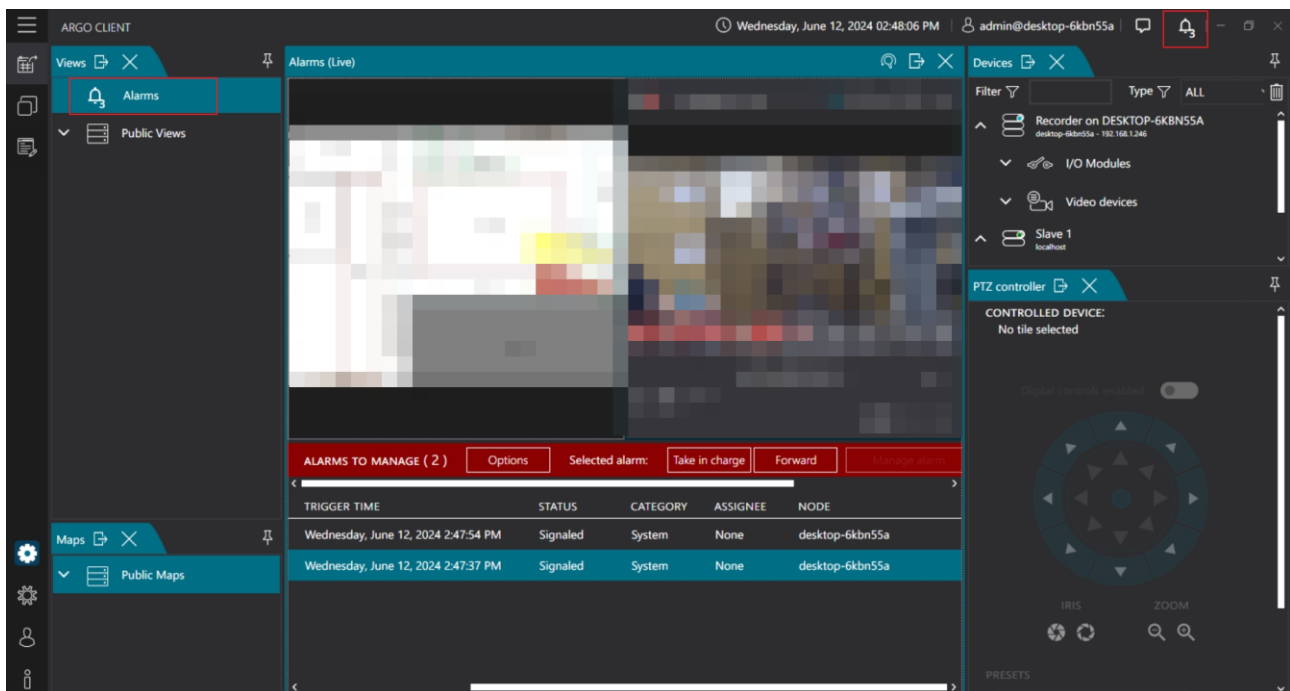


- Click the **[window icon]** then select **[Maps]**.
- Click the **[edit icon]**. The icon turns orange in edit mode.
- Click the **[folder - icon]** below **[Folder]** to delete the selected folder.



8. ALARM

8.1 Alarm



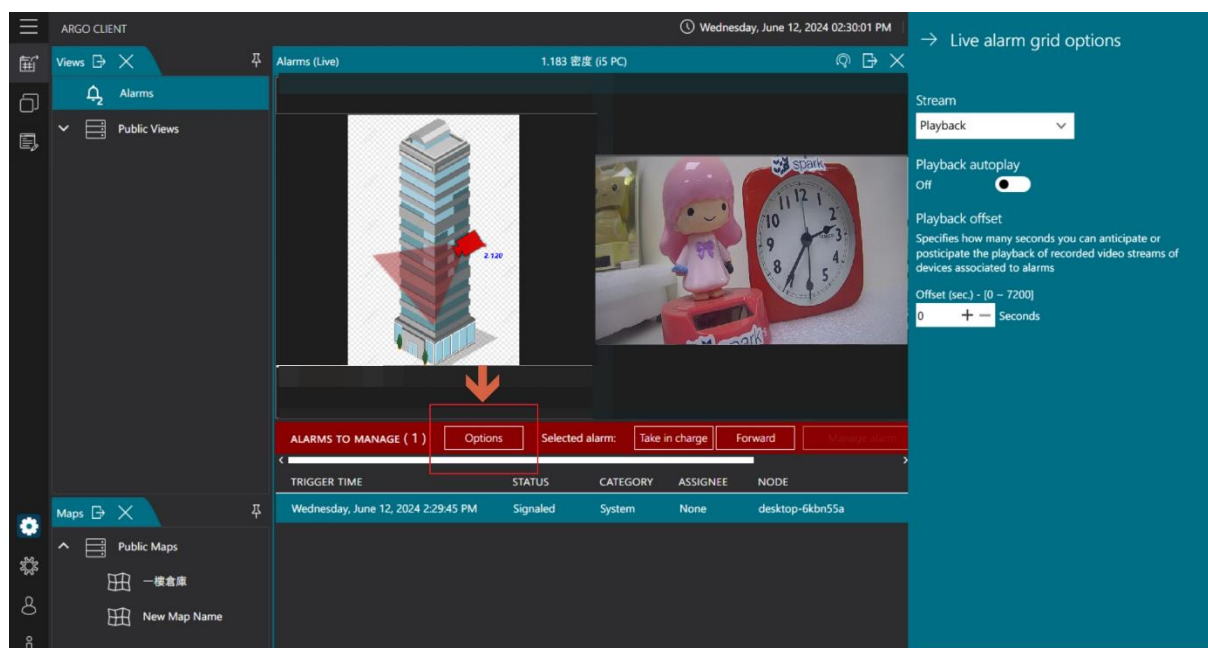
- When an alarm is triggered, the alarm icon and the device on Maps will turn red.
- Click **[alarm icon on Alarm]** or **[red warning on Maps]** to enter alarm management page
- Alarm (real-time) page allows viewing of alarm-related information that has not yet been dealt with.

Alarm-related information includes: alarm name / priority / trigger time / status / list / assigned person / node.

Note: Users need to configure related devices in Argo config event and alarm settings to display the related devices when an alarm is triggered.



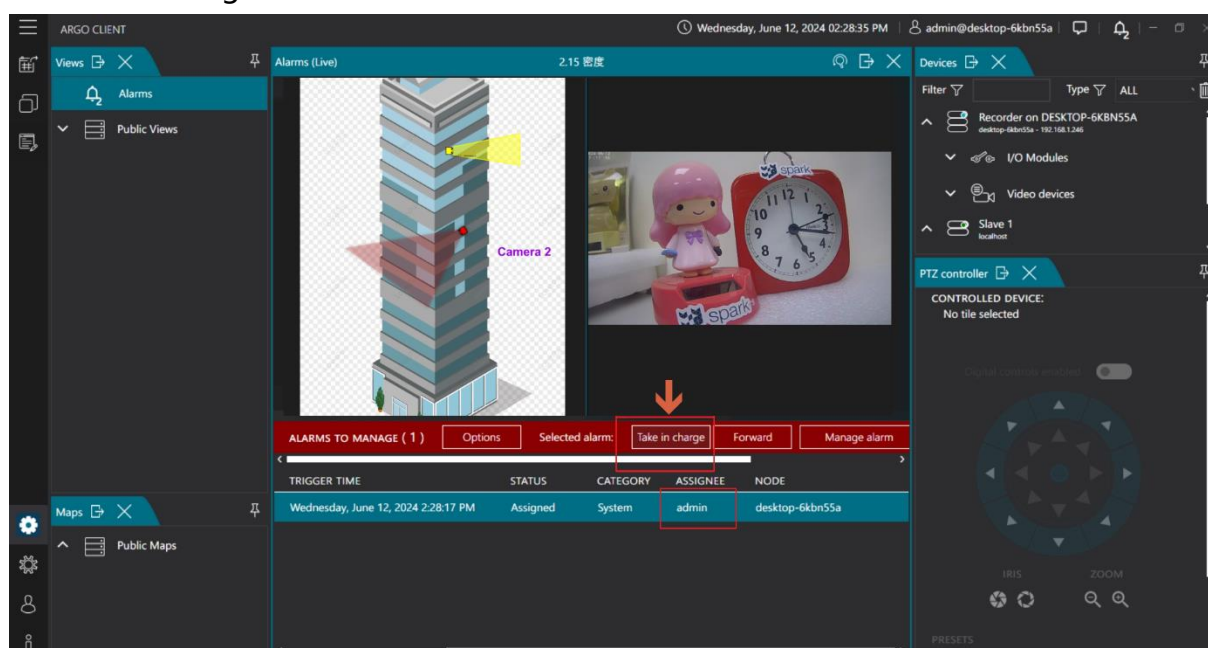
8.2 Real-time alarm options



- Click **[Options]**
- Profile: select behavior when an alarm is triggered (live view / playback / live view and playback).
- Auto playback: when enabled, automatically display playback when an alarm is triggered.
- Playback adjustment: increase or decrease the number of seconds before and after the event for specified devices related to the alarm. Range: 0 to 7200 seconds.

8.3 Take in charge / Alarm forwarding / Manage alarm

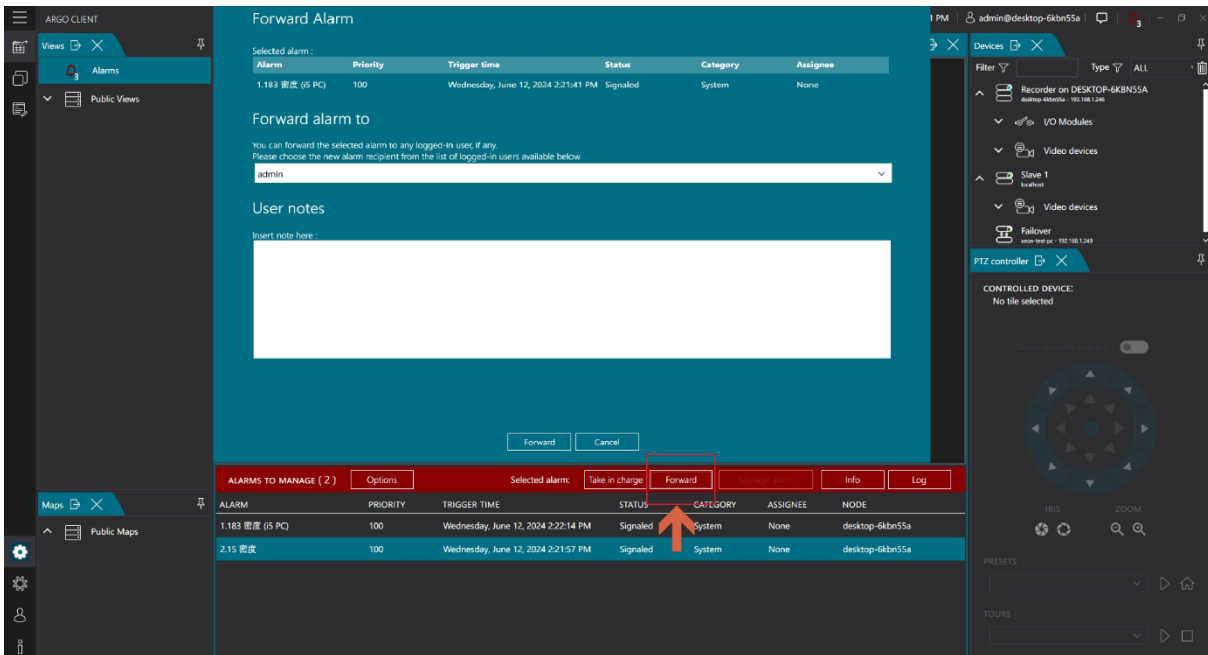
1. Take in charge





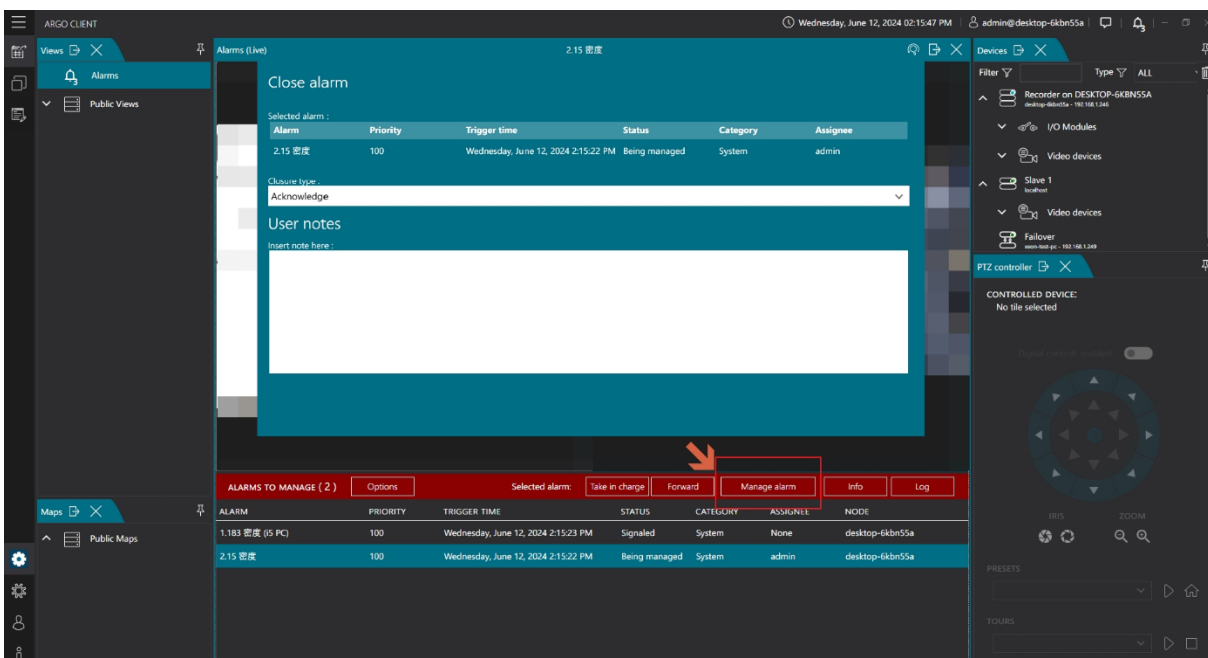
- Users or groups who want to manage alarms can click on **[Take in charge]** to manage alarms.

2. Alarm forwarding



- Click **[forwards]** to forward the alarm to other users or groups for handling.
- Forward alarm: displays selected alarm information, such as alarm name / priority / trigger time / status / list / assigned person.
- Forward alarm to: displays list of available online users to forward the selected alarm.
- User note: notes related to forwarding the alarm can be entered here.

3. Manage alarm





- Click **[manage alarm]** to close the alarm according to the procedure after the alarm ends.
- Close alarm: displays selected alarm information, such as alarm name / priority / trigger time / status / list / assigned person.
- Close alarm type: select the type of closing the alarm - close / false alarm / forced close.
Close: acknowledge this alarm, the alarm is valid.
False alarm: this alarm is a false alarm.
- Forced close: forcefully close this alarm.
- Closing Procedure: Follow the steps to check the successful or failed steps.
- User note: notes related to managing the alarm can be entered here.

8.4 Information / Log

1. Information

The screenshot shows the Argo Client interface with an 'Alarms (Live)' window. A modal dialog box titled 'Alarm 1.183 密度 (5 PC) info' is open, displaying the following information:

- Signaled time: Wednesday, June 12, 2024 2:11:50 PM
- Status: Signaled
- Assignee: None
- Trigger: Undefined
- Category: System
- Assigned by: None

Related devices table:

IP Address	Device name	Product name	Status
192.168.1.183	Camera 7_1.183	FLEXIDOME IP 4000i IR	Ready

Executed actions table:

Name	Description
LINE NOTIFY	linenotification

Below the dialog box, the 'ALARMS TO MANAGE (2)' table is visible, with the 'Info' button highlighted by an orange arrow:

ALARM	PRIORITY	TRIGGER TIME	STATUS	CATEGORY	ASSIGNEE	NODE
2.15 密度	100	Wednesday, June 12, 2024 2:12:00 PM	Signaled	System	None	desktop-6kbn55a
1.183 密度 (5 PC)	100	Wednesday, June 12, 2024 2:11:50 PM	Signaled	System	None	desktop-6kbn55a

- Click **[Information]** to browse the selected alarm information: trigger time / status / list / assignee / assigned person / trigger type / alarm receiving server / related devices / actions executed



2. Log

The screenshot shows the Argo Client interface. A modal window titled "Alarm log" is open, displaying details for a selected alarm and its logs. The "Log" button in the bottom right of the main interface is highlighted with a red box and an orange arrow.

Alarm log

Selected alarm

Alarm	Priority	Trigger time	Status	Category	Assignee
1.183 密度 (S PC)	100	Wednesday, June 12, 2024 2:08:28 PM	Signaled	System	None

Logs

Date & Time	Status	Operator	Assignee	User notes
Wednesday, June 12, 2024 2:08:28 PM	Signaled	None	None	

Related events

Date & Time	Status	Source
Wednesday, June 12, 2024 2:08:28 PM	On	1.183 密度 (S PC)

ALARMS TO MANAGE (2)

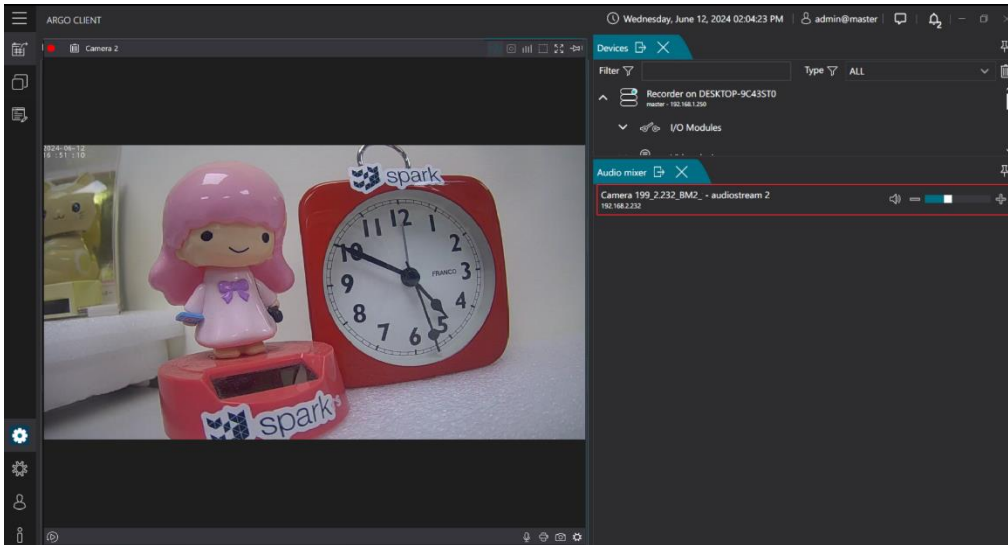
ALARM	PRIORITY	TRIGGER TIME	STATUS	CATEGORY	ASSIGNEE	NODE
2.15 密度	100	Wednesday, June 12, 2024 2:08:28 PM	Signaled	System	None	desktop-6kbn55a
1.183 密度 (S PC)	100	Wednesday, June 12, 2024 2:08:28 PM	Signaled	System	None	desktop-6kbn55a

- Click **[logs]** to browse the selected alarm logs: selected alarm / logs / related events



9. AUDIO MIXER

9.1 Audio volume adjustment

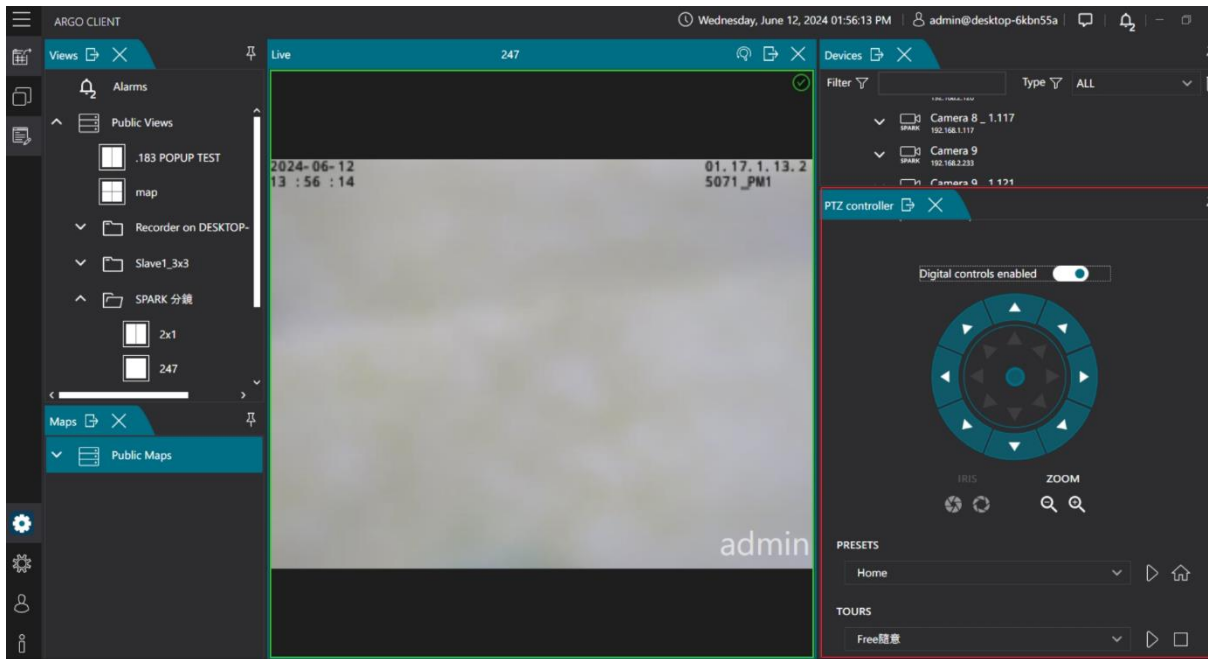


- Click **[window icon]** and select **[Audio mixer]**
- Drag **[volume bar]** to adjust the audio volume.



10. PTZ CONTROL

10.1 Camera PTZ control

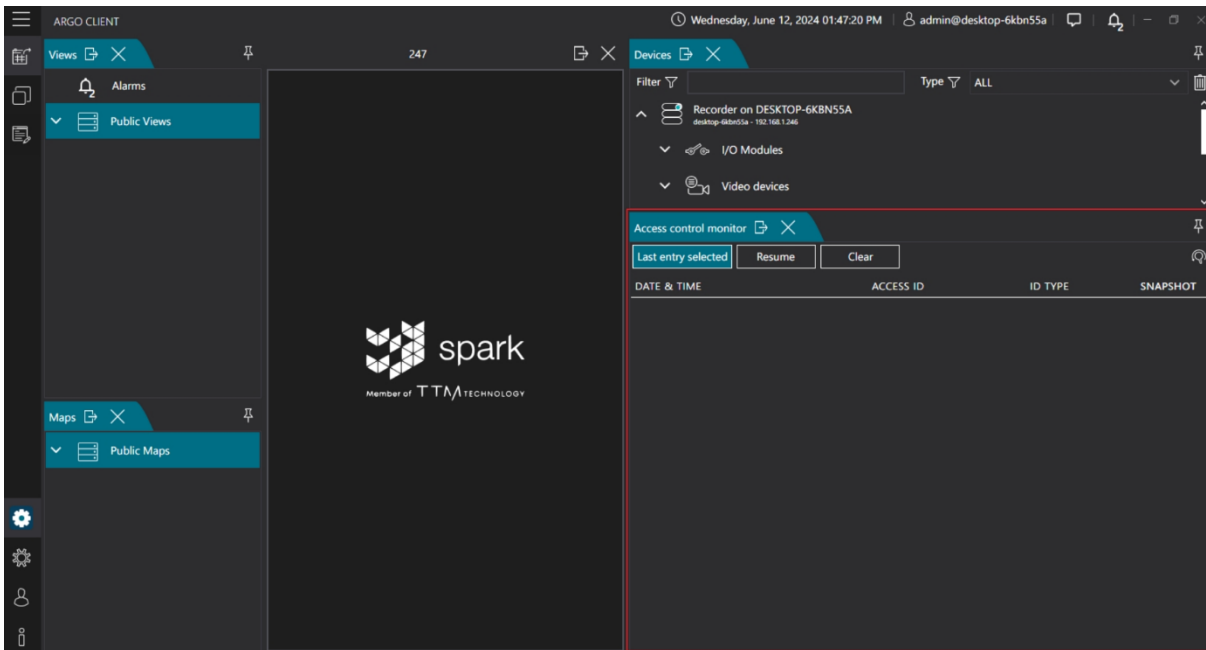


- Click [**window icon**] select [**PTZ control**]
 - Click on the [**dashed frame**] on the upper right corner of the PTZ camera you want to control.
 - Enable digital control:
When enabled, only digital zoom in and zoom out are applied to the current screen.
When disabled, zoom in and zoom out of the camera itself can only be done through the mouse scroll wheel.
 - Iris: adjust to avoid overexposure
 - Zoom: adjust image zoom
 - PRESETS: select preset position
 - TOURS: select path
- Note: to use this feature, the selected camera must support the PTZ function.



11. ACCESS CONTROL

11.1 Real-time access control



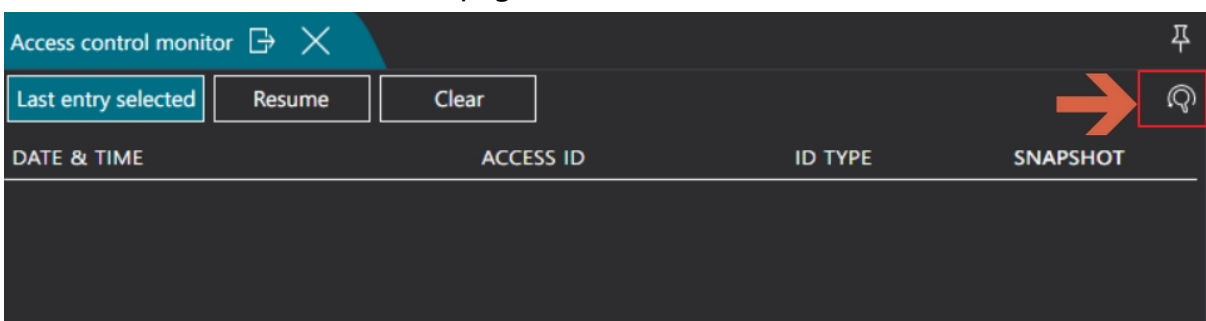
- Click **[windows icon]** select **[access control]**

Note: by default, access control is in real-time mode.

Option	Description
Display latest data	Automatically update to the latest record.
Pause	Temporarily stop updating records.
Clear all	Clear all real-time records (these records can still be found in the search records).

11.2 Record mode

1. Enable access control record page



- Click **[window icon]** select **[access control]**
- Click on **[Record Mode Icon]** to go to the access control record mode



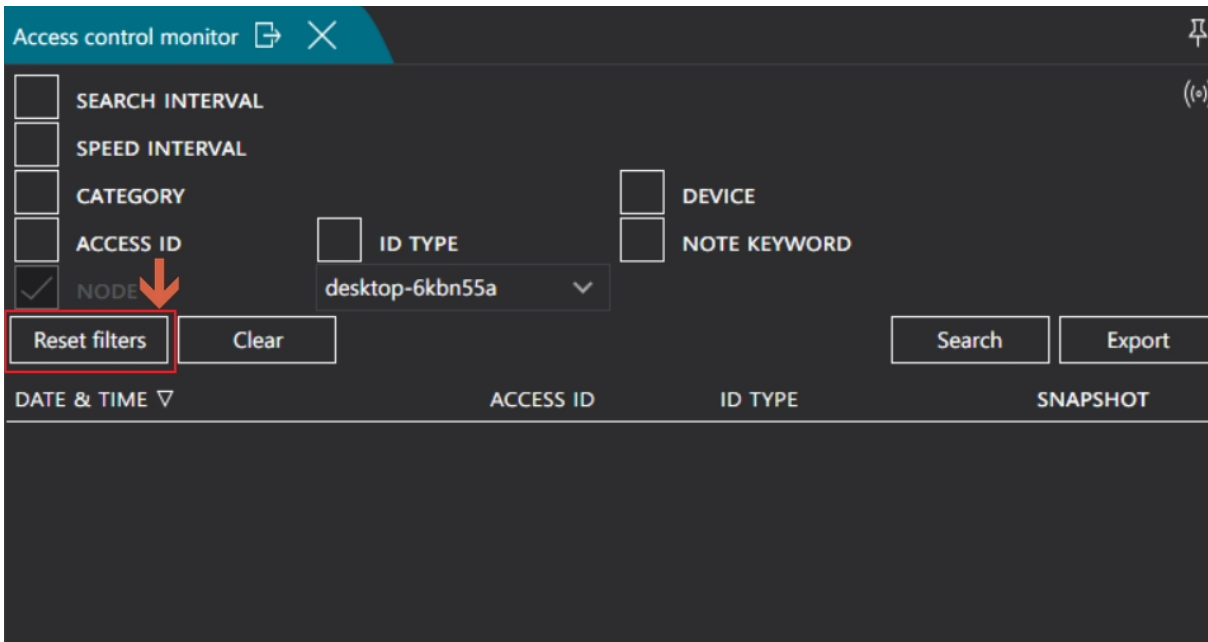
2. Search access control record

- Select filtering options then click **[Search]**
- Filtering options:

Option	Description
Time interval	Filter based on the set time interval.
Speed range	Filter based on the set speed range.
List	Filter based on the set list.
Device	Filter based on the set device.
Access ID	Filter based on the set ID. For example, entering "123" will search for all Access IDs containing "123".
Access type	Filter based on the passage type (RFID/LPR).
Note keyword	Filter based on keywords in the note field. For example, entering "VIP" will search for all access IDs with "VIP" included in the notes.
Node	Filter based on the node where the device recording the access ID is located.

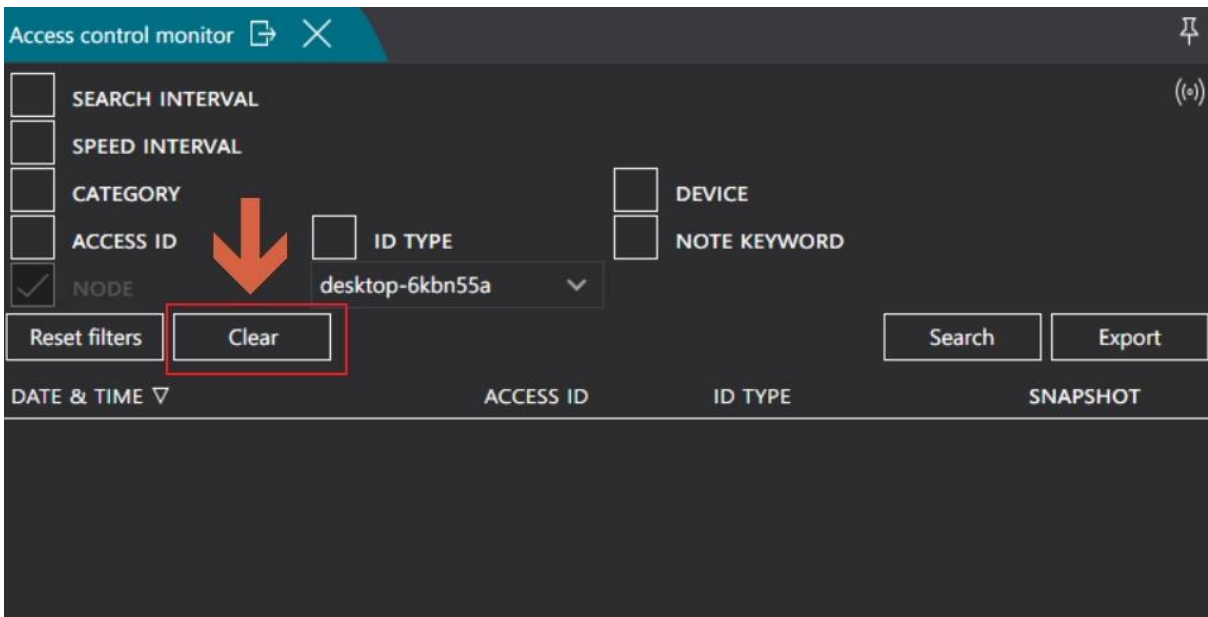


3. Clear filter options



- Click on the bottom left **[Clear Filters]** to clear the selected filter items.

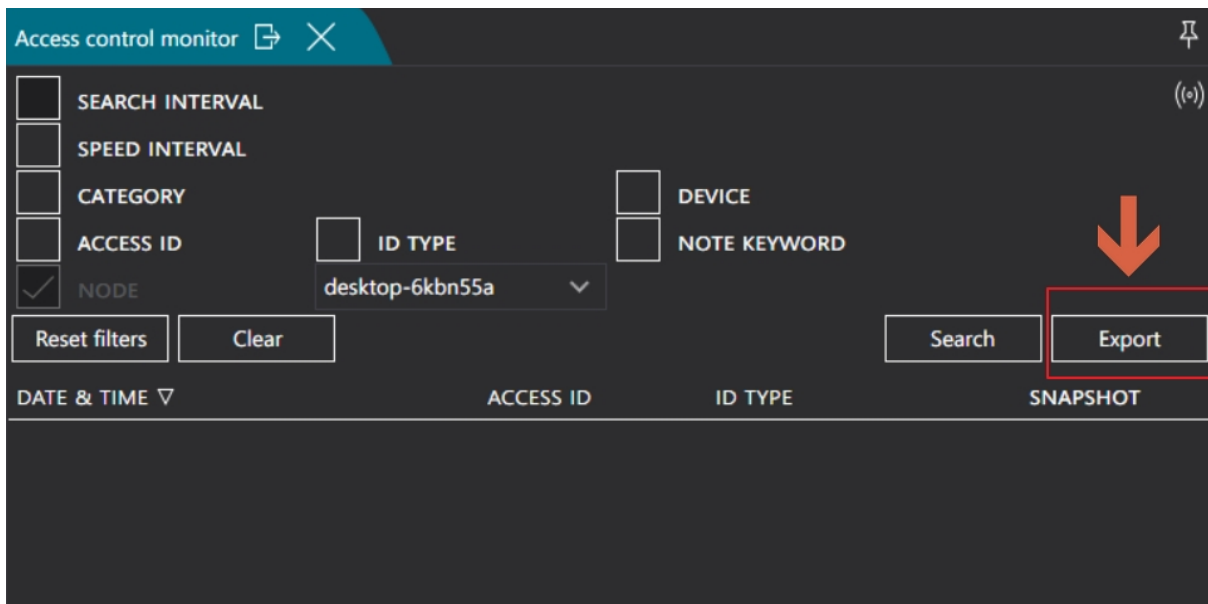
4. Clear all filter options



- Click on the bottom left **[Clear All]** to clear all previous search records.

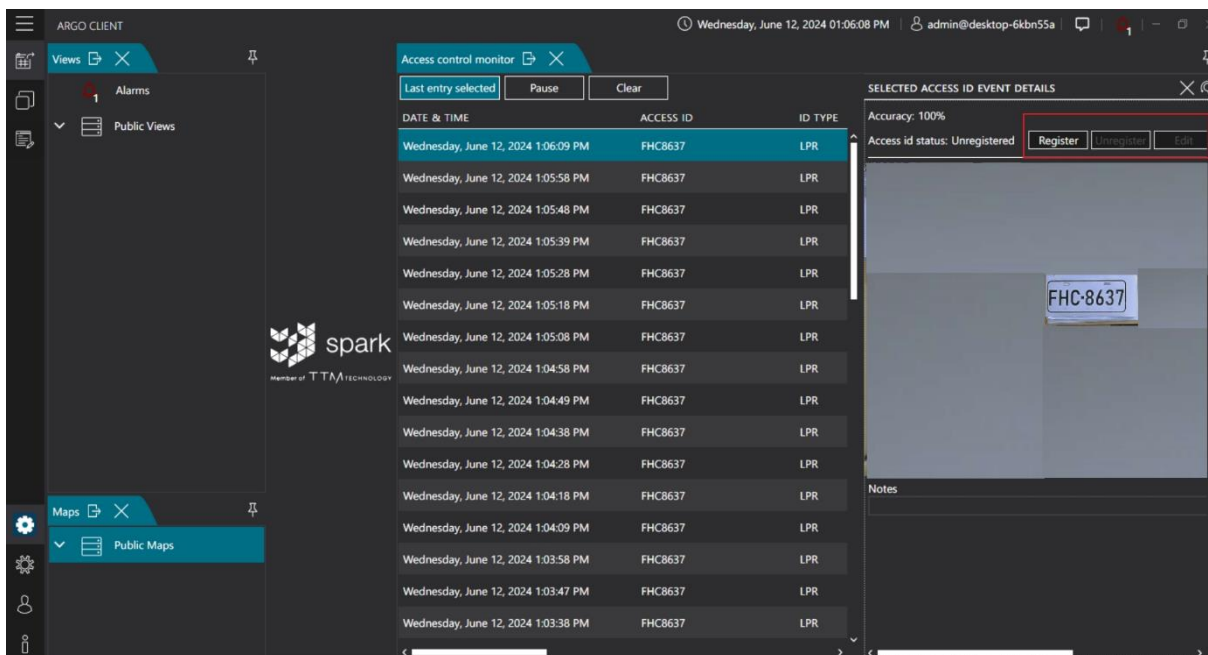


5. Export access control records



- Click [**Export**] to export the access control record

11.3 Access ID status

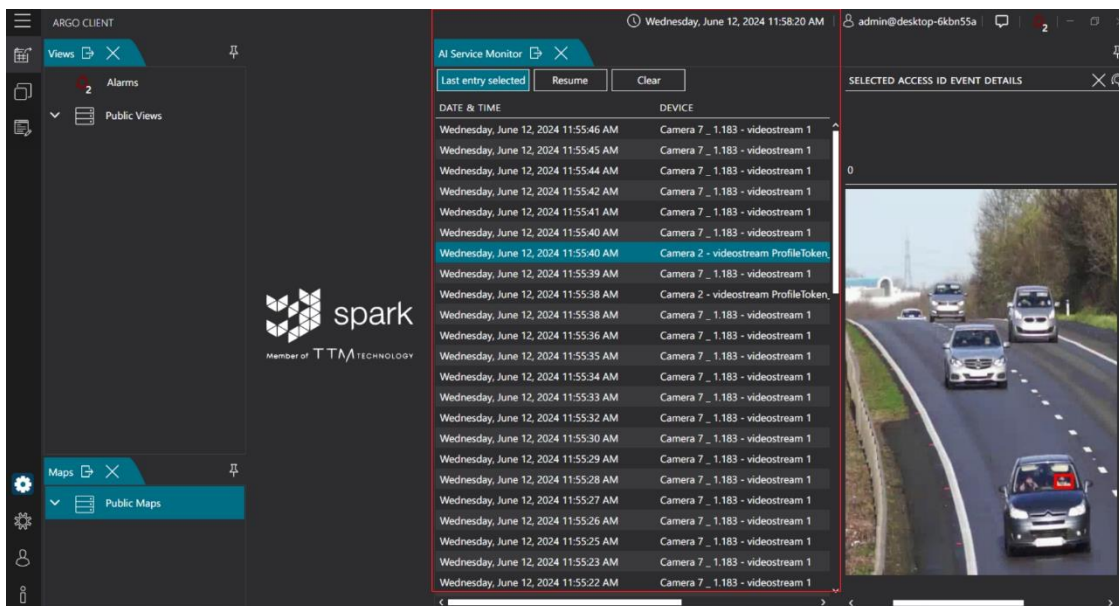


- Registered: click on the ID you want to add and click [**Register**] to complete add ID.
- Deactivate: click on the ID you want to delete and click [**Deactivate**] to delete ID.
- Edit: click on the ID you want to edit and click [**Edit**] to edit the ID, category, effective date, effective time, and notes.



12. AI SERVICE

12.1 Real-time AI service



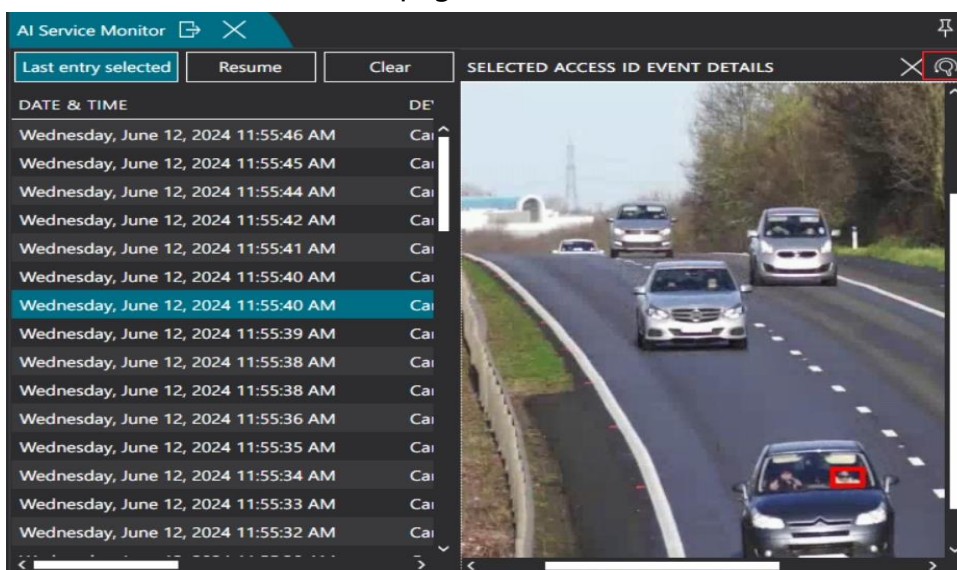
- Click on the **[window icon]** and select **[AI service]**

Note: by default, AI service is in real-time mode.

Option	Description
Display latest data	Automatically update to the latest record.
Pause	Temporarily stop updating records.
Clear all	Clear all real-time records (these records can still be found in the search records).

12.2 Go to archive

1. Enable AI service record page

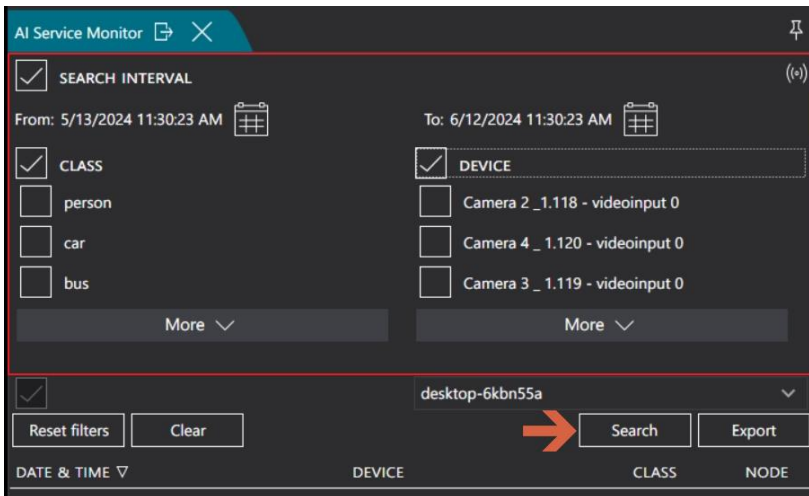


- Click on the **[window icon]** and select **[AI service minotor]**



- Click on [**Go to archive Icon**] to go to the AI service record mode

2. Search AI service record

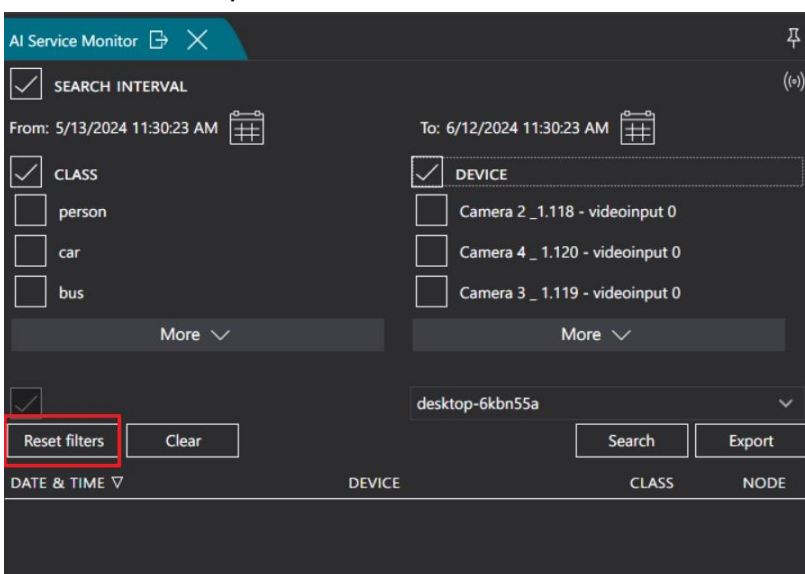


- Select filtering options then click [**Search**]

- Filtering options:

Option	Description
Time interval	Filter based on the set time interval.
Type	Filter based on AI service type. Type: person/ car / bus / truck / motorcycle / bicycle / fire / smoke
Device	Filter based on device.
Node	Filter by the node where the record device is located.

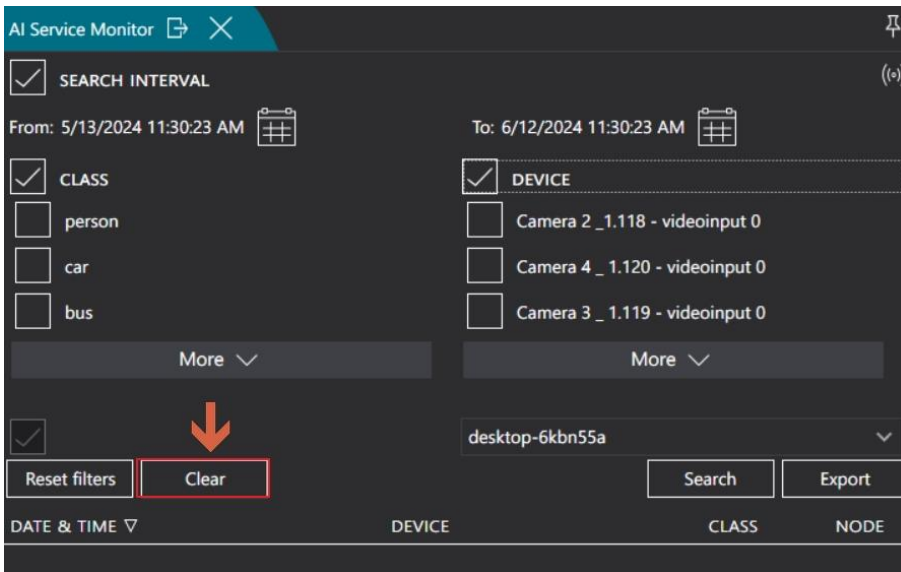
3. Reset filter options



- Click on the bottom left [**Reset Filters**] to clear the selected filter items.

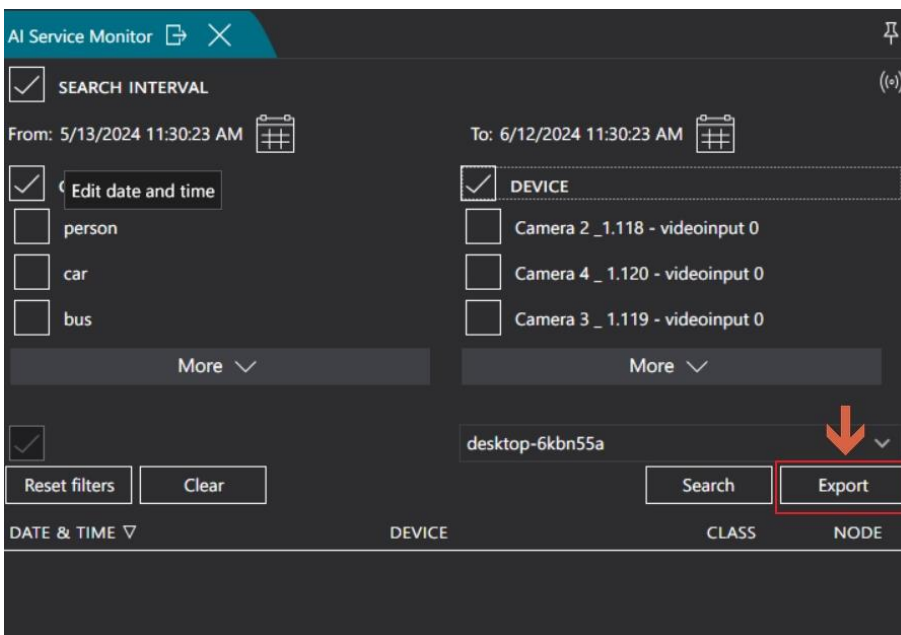


4. Clear all filter options



- Click on the bottom left [**Clear All**] to clear all previous search records.

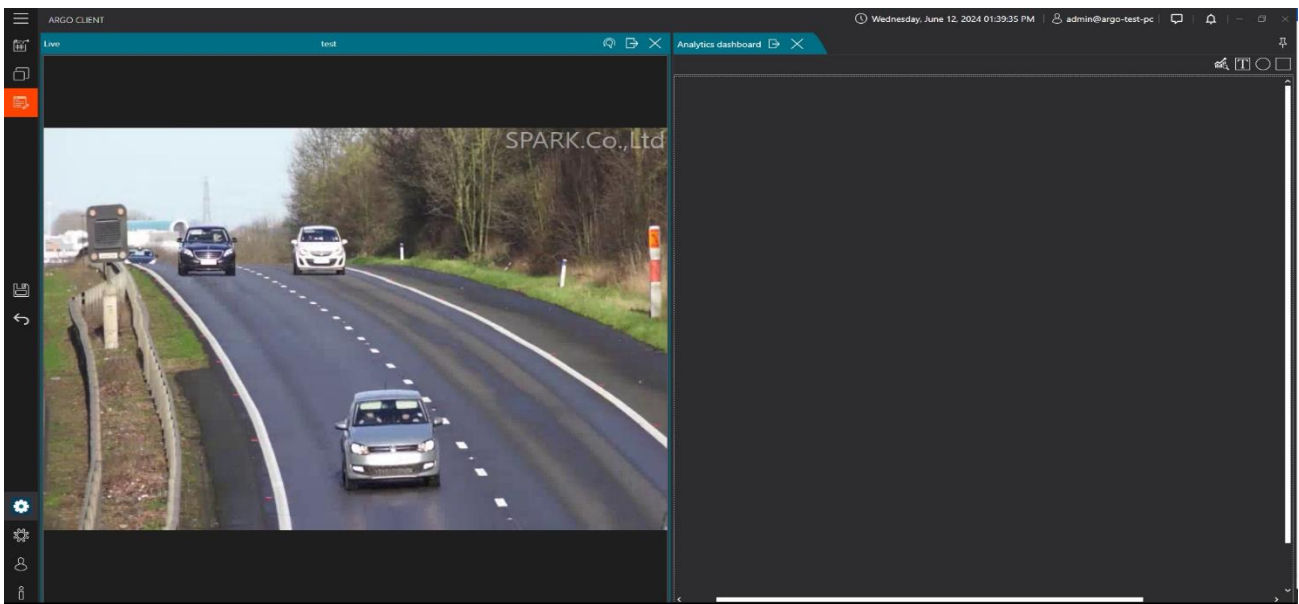
5. Export AI services records



- Click [**Export**] to export the AI services record



13. ANALYTICS DASHBOARD

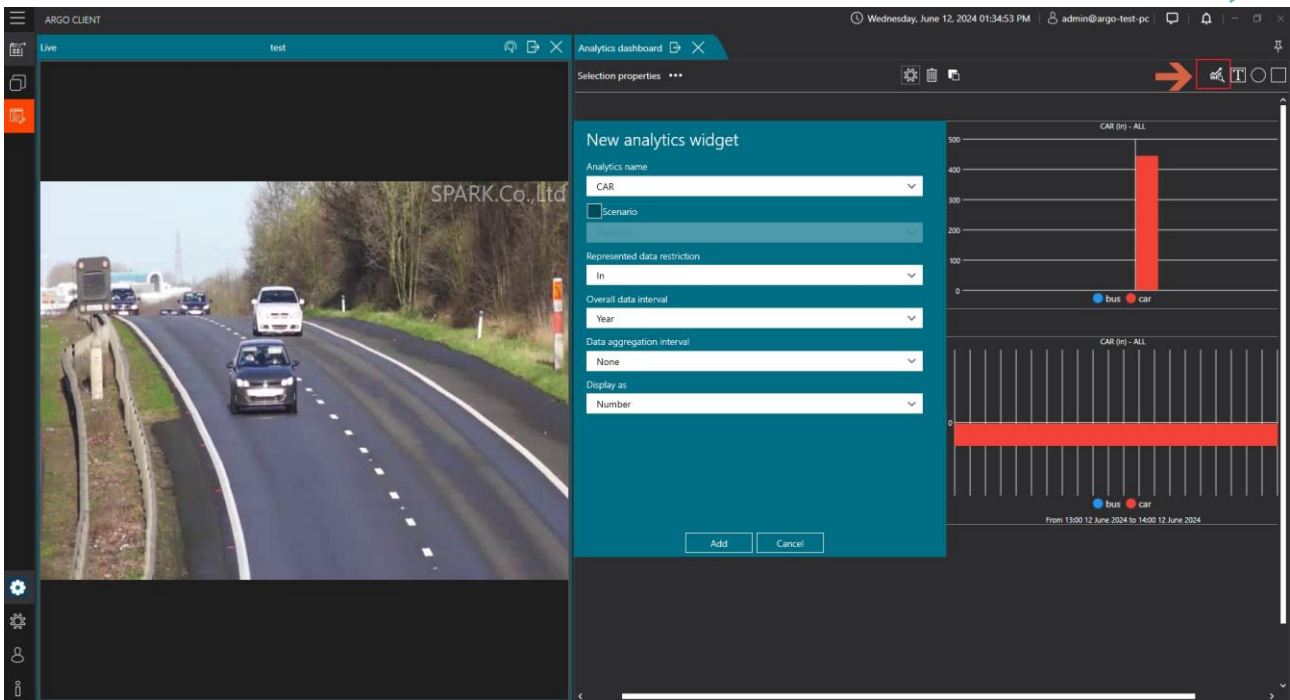


- Click **[windows icon]** select **[Analytics dashboard]**
- Icon Descriptions:

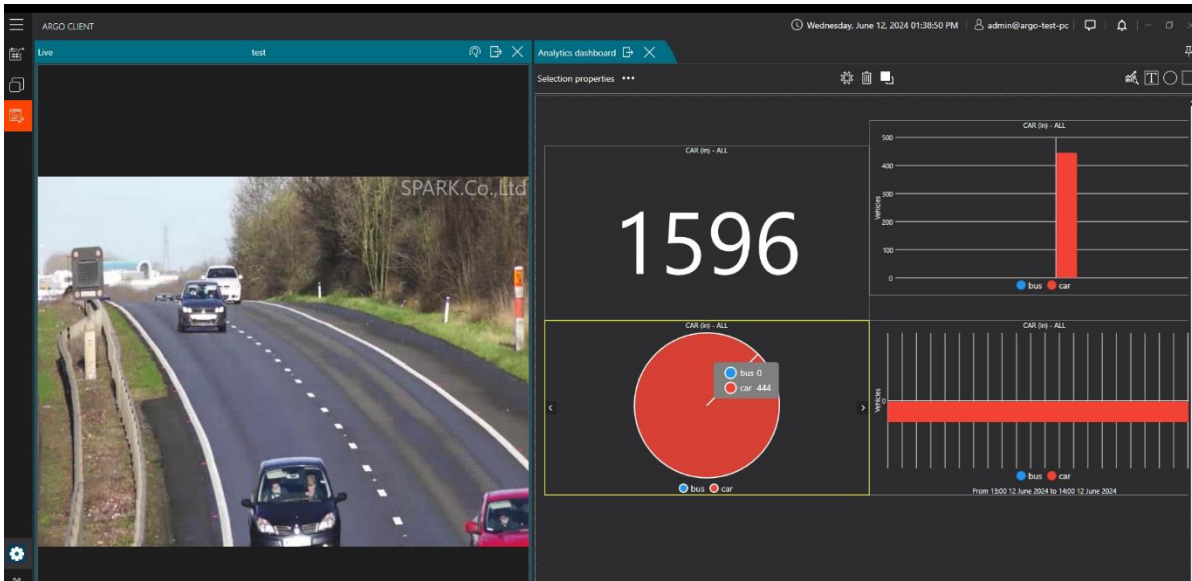
	New analytics widget (refer to the following steps)
	Add new text object
	Add circle object
	Add rectangle object

13.1 Add/Edit/Delete/Export analytics dashboard

1. Add new text object

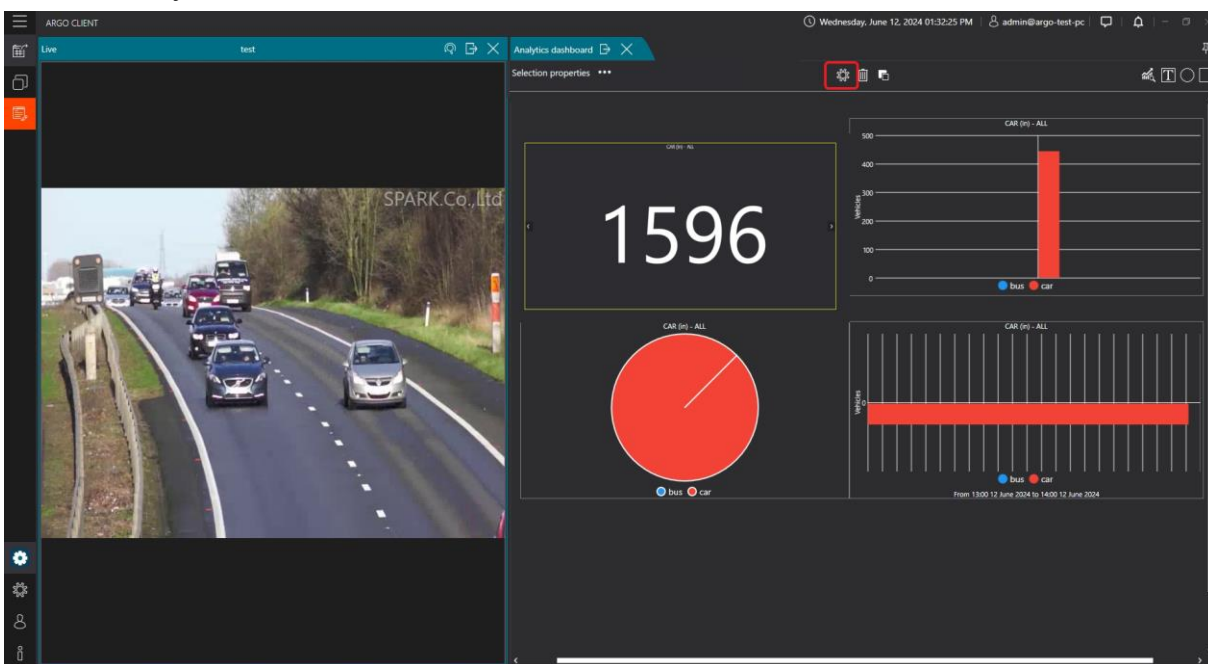


- Click **[window icon]** and select **[Analytics dashboard]**
- Click **[Add new text object]**
- Analytics name: insert name
- Scene: select preconfigured scene
- Display data conditions: select counting conditions of the image analytics component.
Counting conditions type: in / out / in plus out / in minus out / out minus in
- Total data interval: select the time frequency of the total data of image analytics data
Time frequency: year / month / week / day / hour
- Data accumulation interval: select the time frequency of data accumulation for image analytics data.
Time frequency: none / month
- Display as: select how the analytics component is displayed
Display type: number / bar chart / line chart / horizontal bar chart / pie chart



- After adding, drag the yellow box to edit the display position and size of the image analytics dashboard component

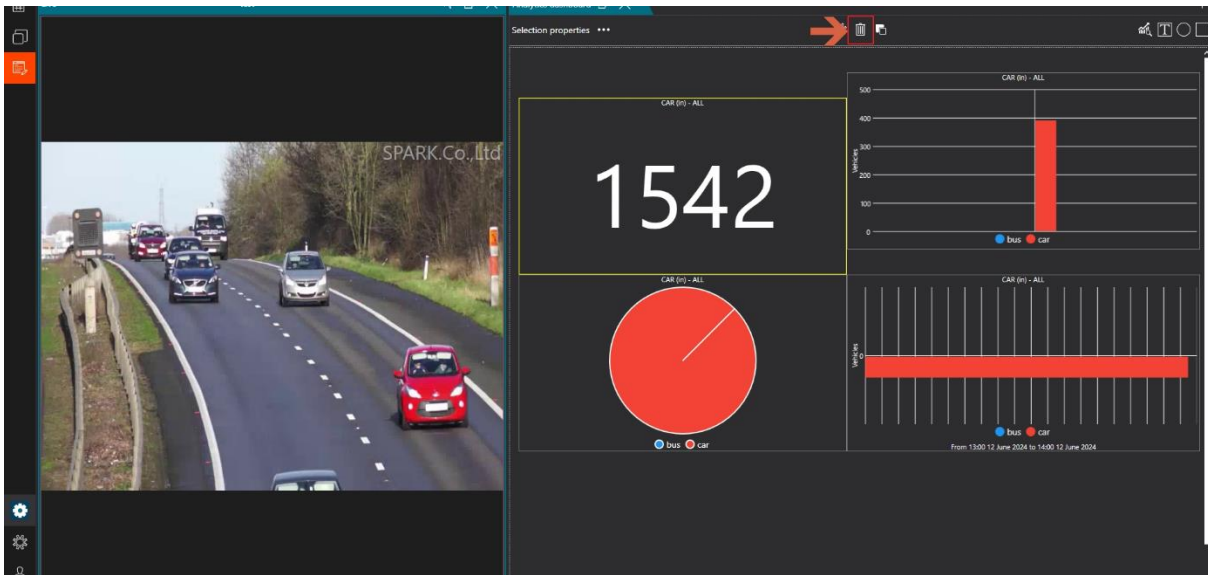
2. Edit analytics dashboard



- Click **[window icon]** and select **[Analytics dashboard]**
- Click the **[edit icon]**. The icon turns orange in edit mode.
- Click the **[settings icon]** above to edit

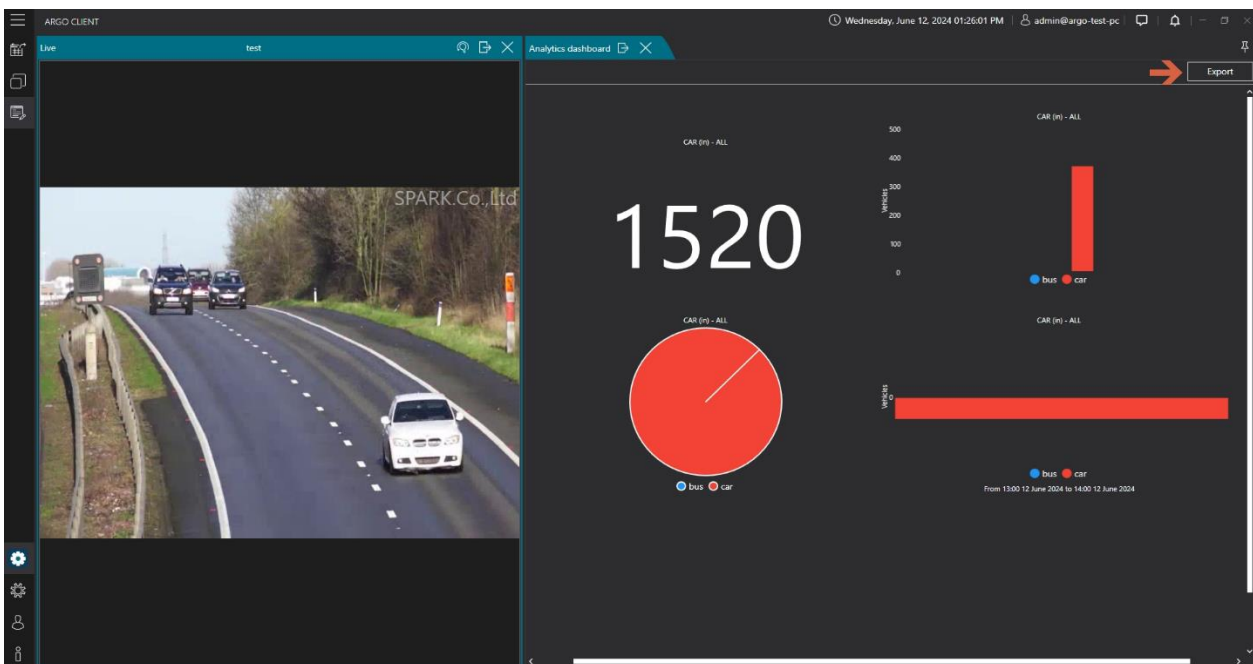


3. Delete analytics dashboard



- Click **[window icon]** and select **[Analytics dashboard]**
- Click the **[edit icon]**. The icon turns orange in edit mode.
- Click **[trash can icon]** to delete analytics dashboard
-

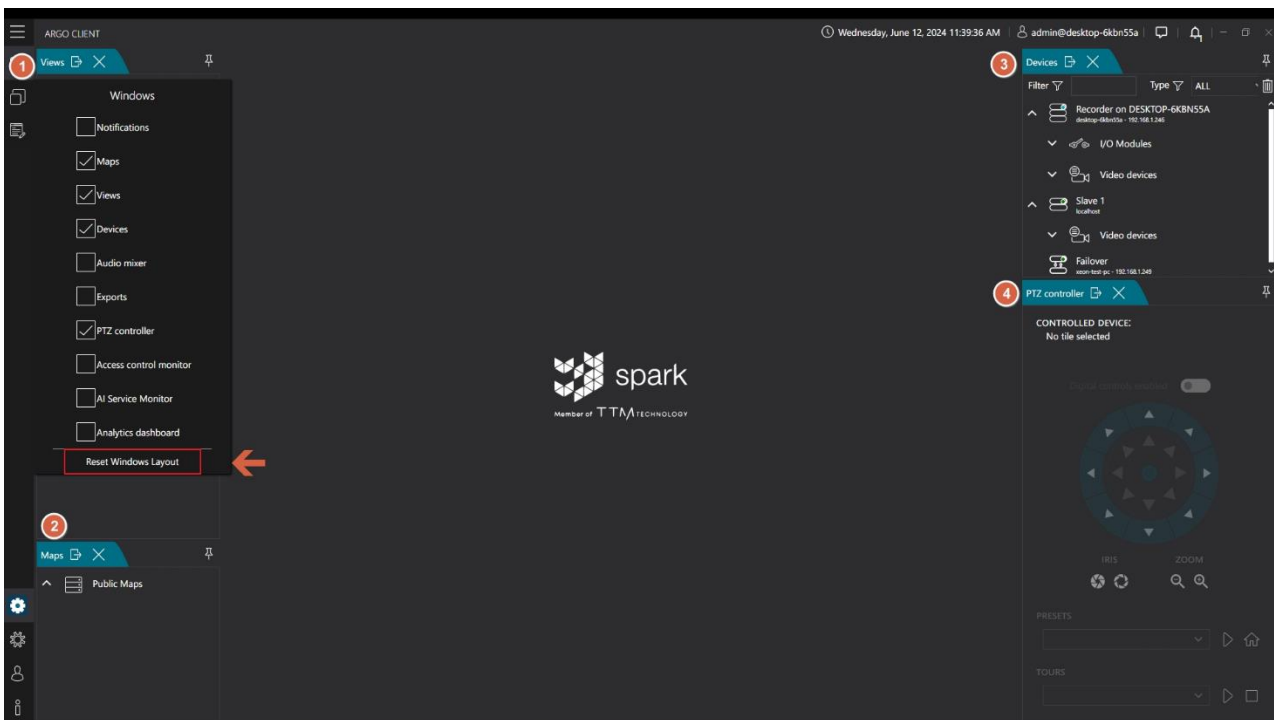
4. Export analytics dashboard



- Click **[window icon]** and select **[Analytics dashboard]**
- Click the **[export]**



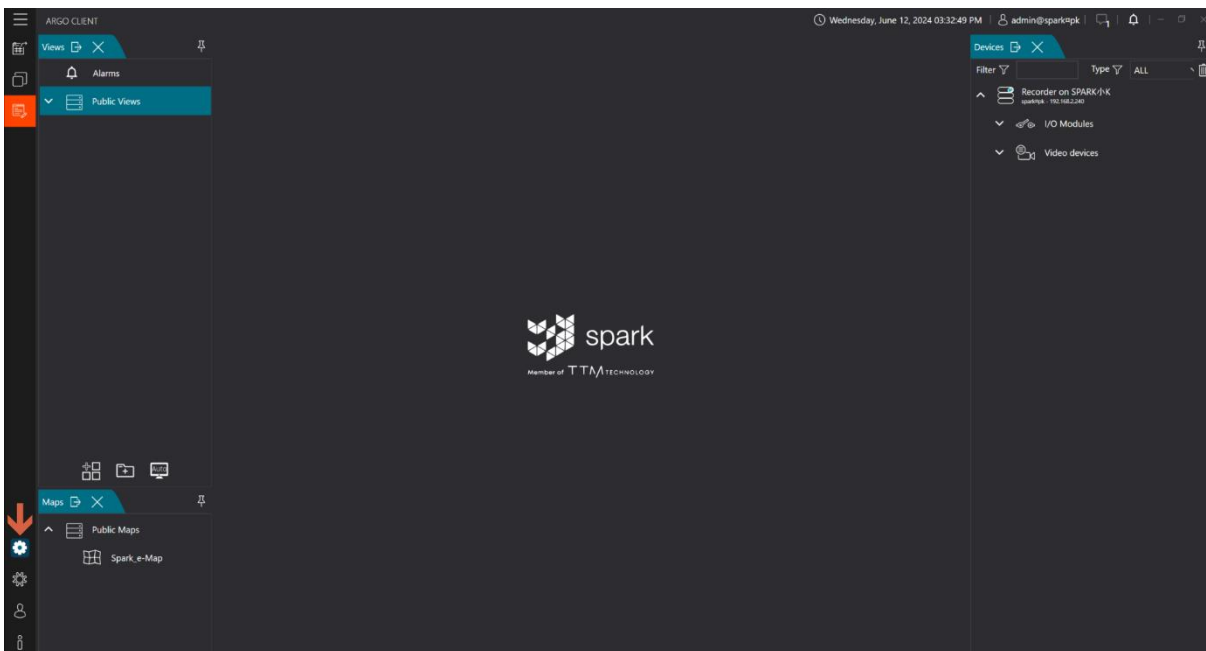
14. RESTORE LAYOUT



- Click [**window icon**] and select [**Restore layout**]
- Restore the layout to include Map / Screen / Devices / PTZ Control.



15. ARGO CONFIG

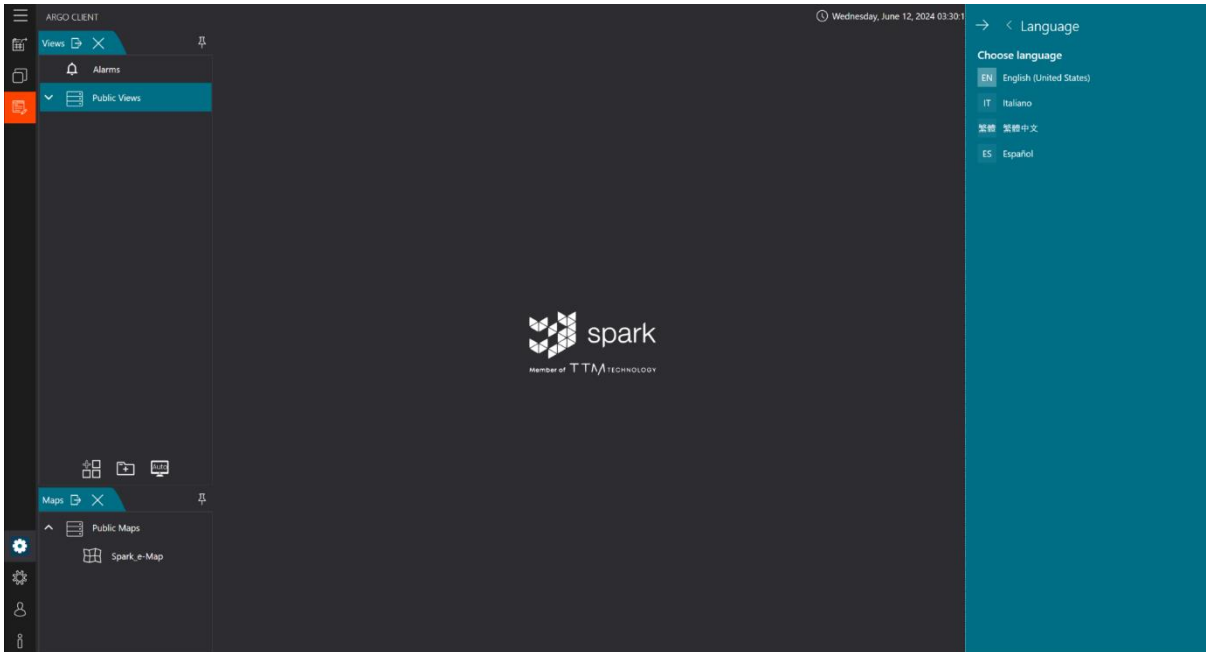


- Click **[Argo Config icon]**
- Open Argo config from Argo Client



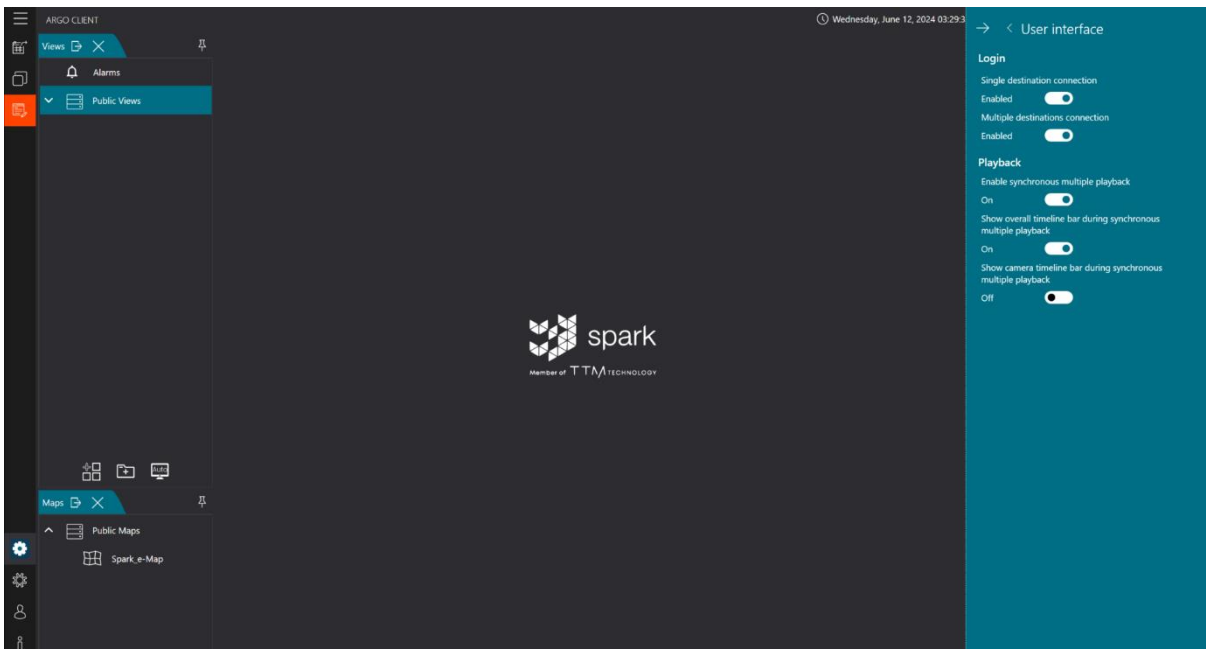
16. OPTIONS

16.1 Language

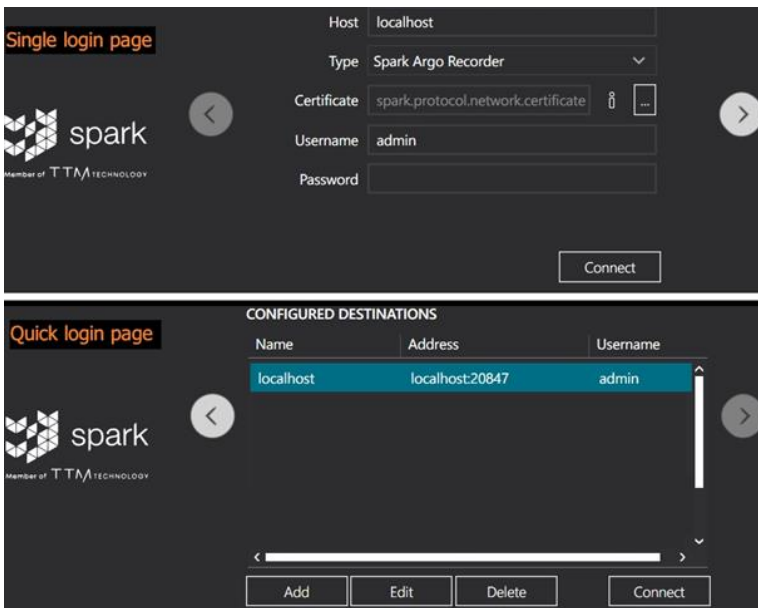


- Click the bottom left **[Options]** and select **[Language]**.
- Language options: English / Italiano / 繁體中文 / Español

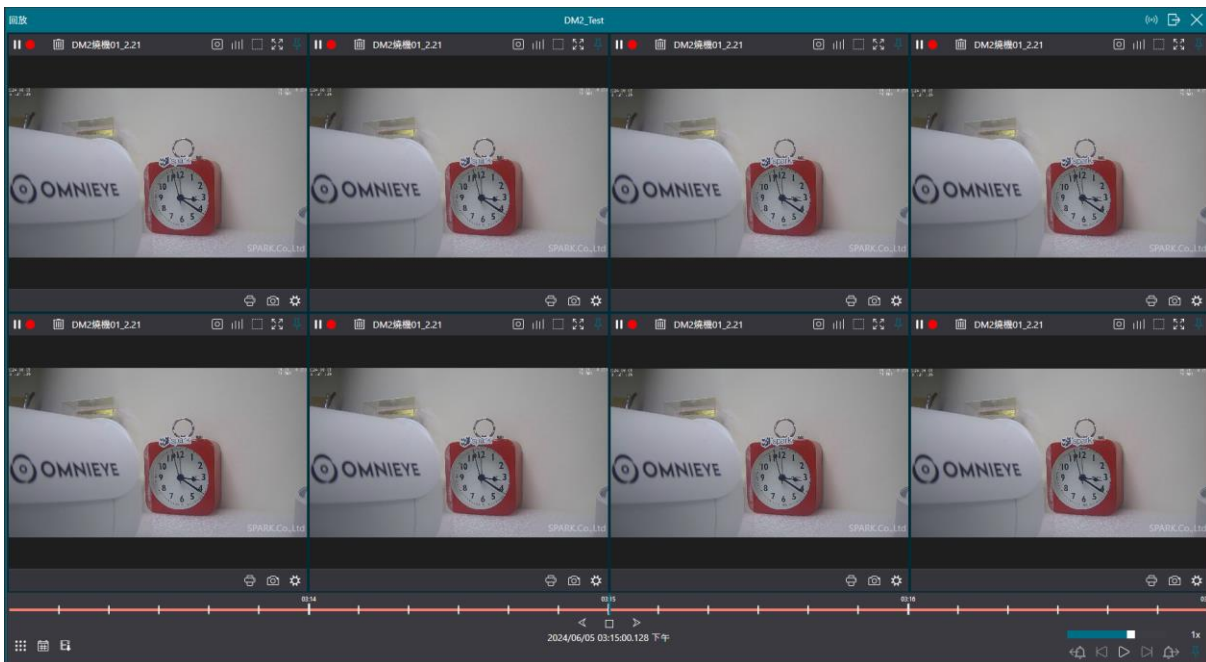
16.2 Interface



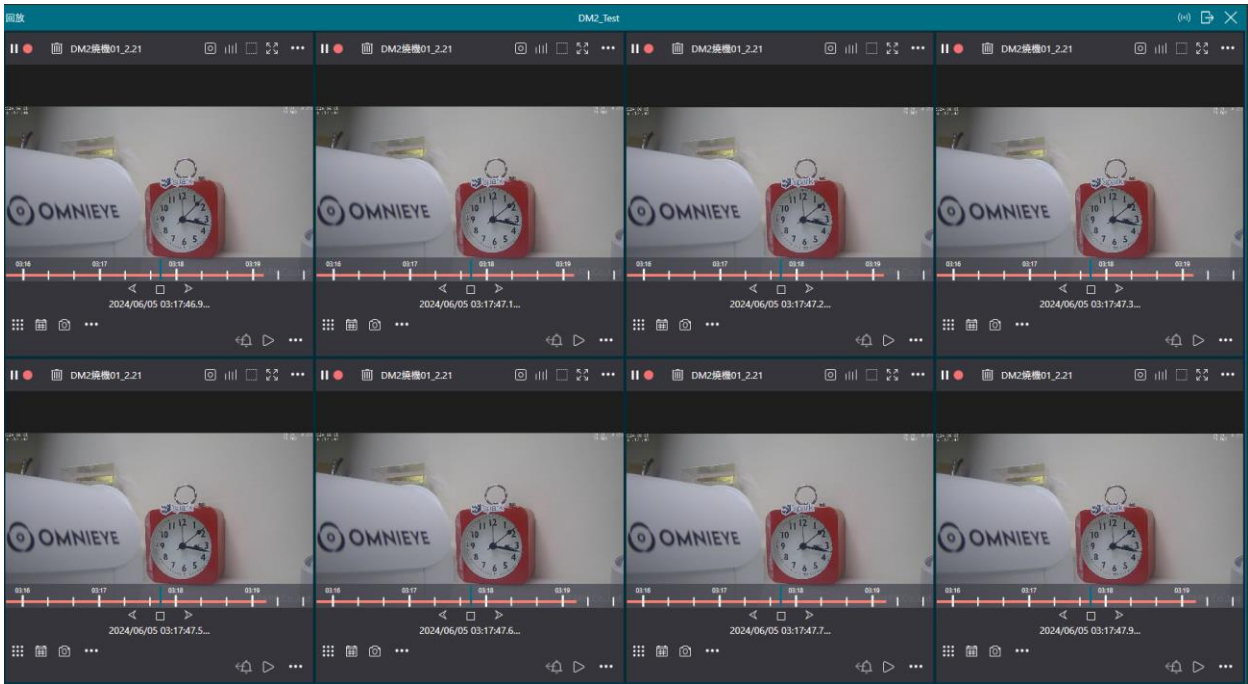
- Click the bottom left **[Options]** and select **[Interface]**.



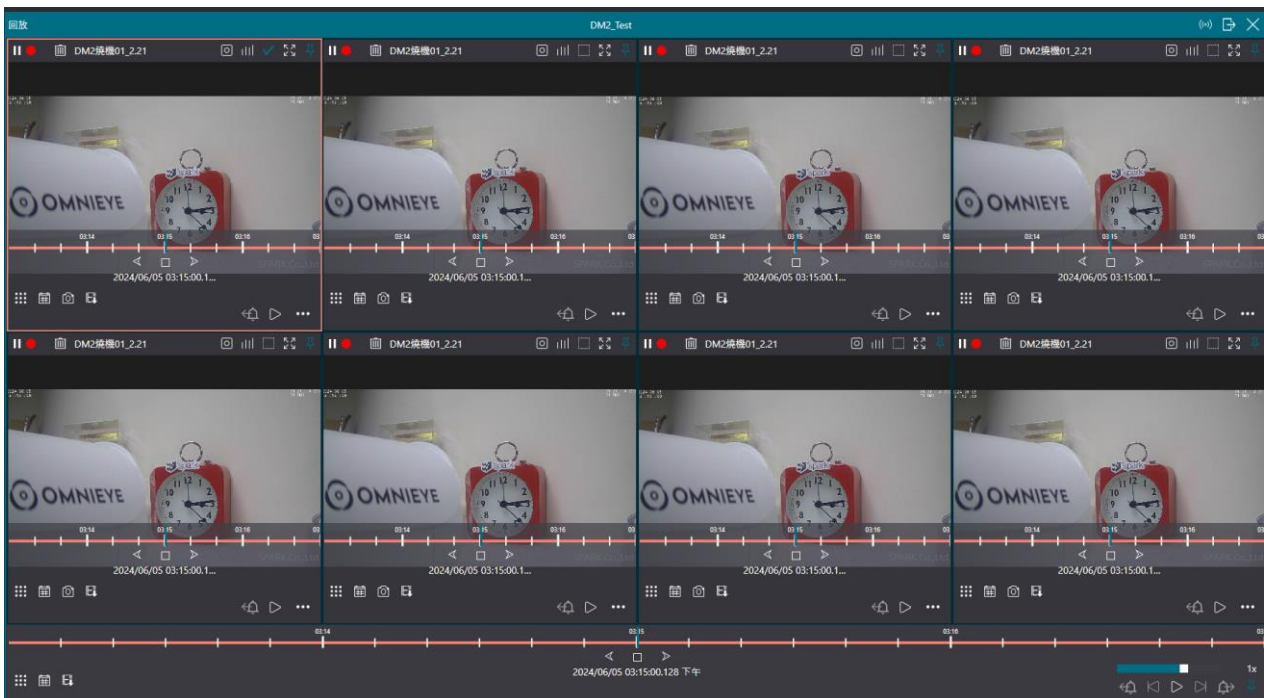
- Log in:
 - A. Single login page: password is required to log in.
 - B. Quick login page: log in without a password for direct connection.
- Playback: Playback settings
 - A. Enable synchronized playback: when enabled, screens can be synchronized during playback.



- B. Enable total timeline when multiple synchronized playback is displayed: when enabled, screen will display total timeline.

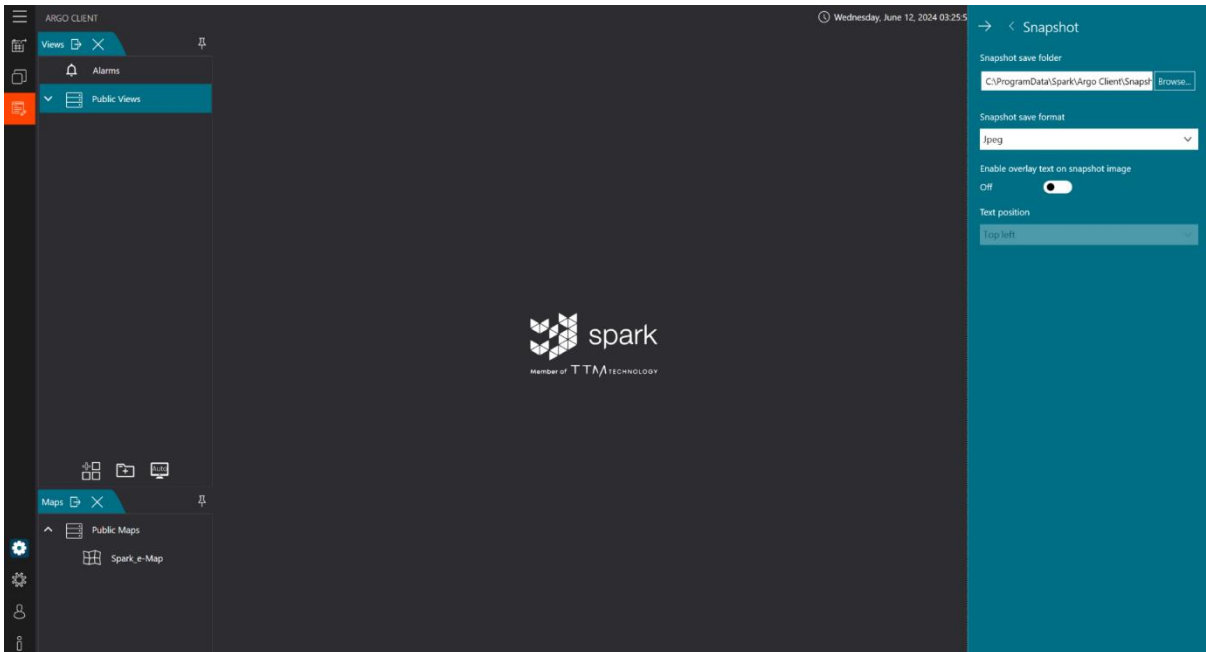


C. Enable timeline of each device when multiple synchronized playback is displayed: when enabled, screen will display individual device timeline.



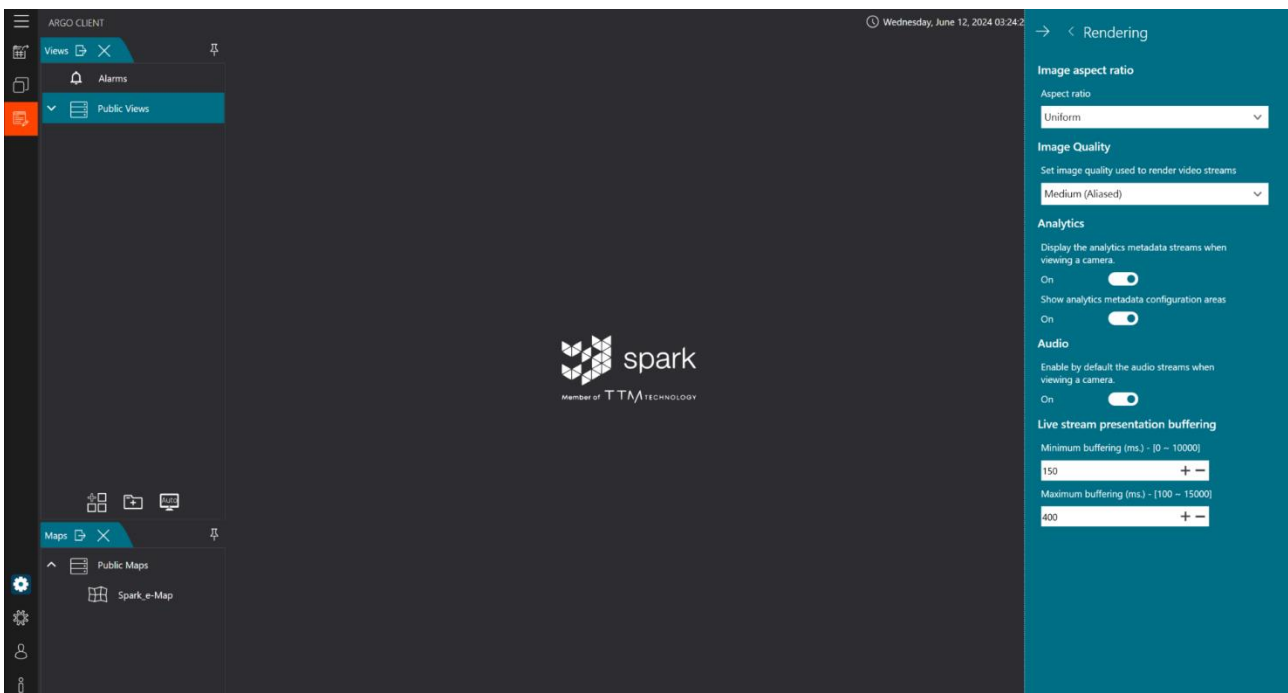


16.3 Snapshot



- Click on the bottom left [**Options**] and select [**Snapshot**].
- Snapshot folder: select folder where snapshots will be saved.
- Snapshot format: select the format for snapshot output.
- Snapshot format: Bitmap / Jpeg / Png / Gif / Tiff / Wmp
- Enable overlay on snapshots: when enabled, overlay will be displayed on snapshots.
- Text position: select position for overlay on snapshots.

16.4 Drawing

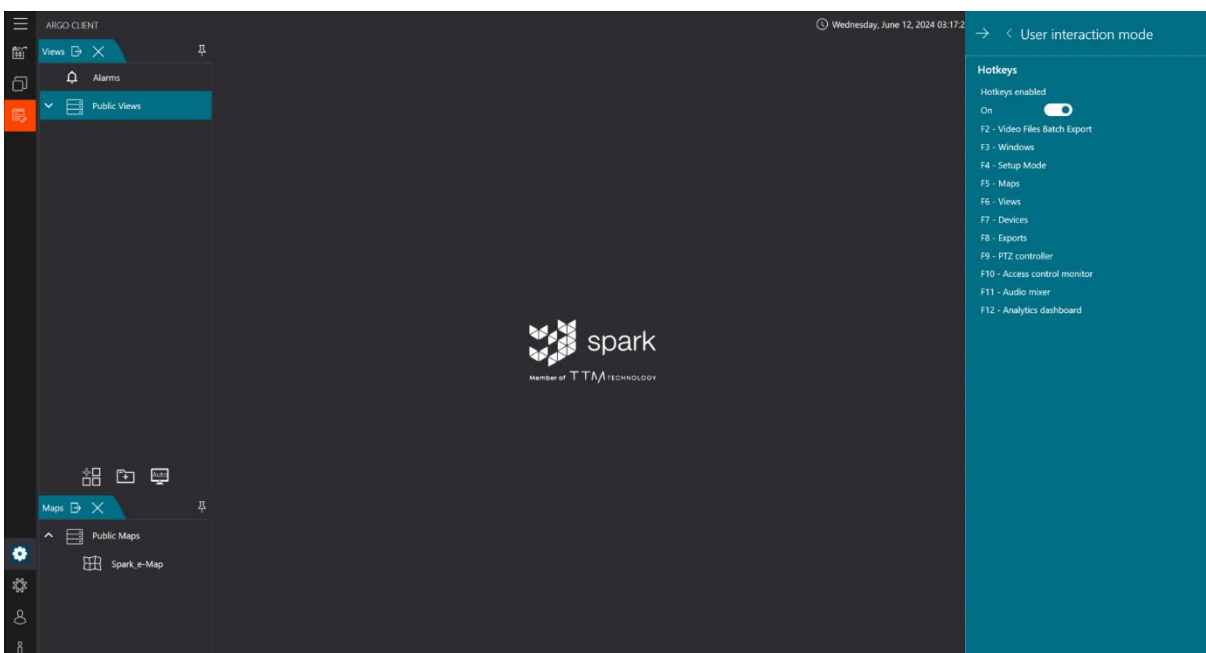


- Click the bottom left [**Options**] and select [**Drawing**].



- live view aspect ratio: set aspect ratio for live view.
Aspect ratio: select between standard or full screen.
- Image quality: set image quality
Options: Low (ghosting), Medium (no ghosting), High (smooth without ghosting).
- Video analytics: set the video analytics data and detection area.
 - A. Display video analytics data when viewing a single camera: when enabled, the screen will display a red frame.
 - B. Display detection area: when enabled, the screen will display the detection area.
Note: if video analytics data is disabled, the detection area configuration will be disabled.
- Audio: set audio when viewing camera.
Automatically start audio when viewing camera: when enabled, sound will be heard when viewing camera.
- Real-time stream buffering: edit minimum and maximum buffering time.
 - A. Minimum buffer time range: 0~10000 milliseconds
 - B. Maximum buffer time range: 100~15000 millisecondsNote: for effective video analytics, pre-configuration on the camera's web interface is required.

16.5 User interaction mode

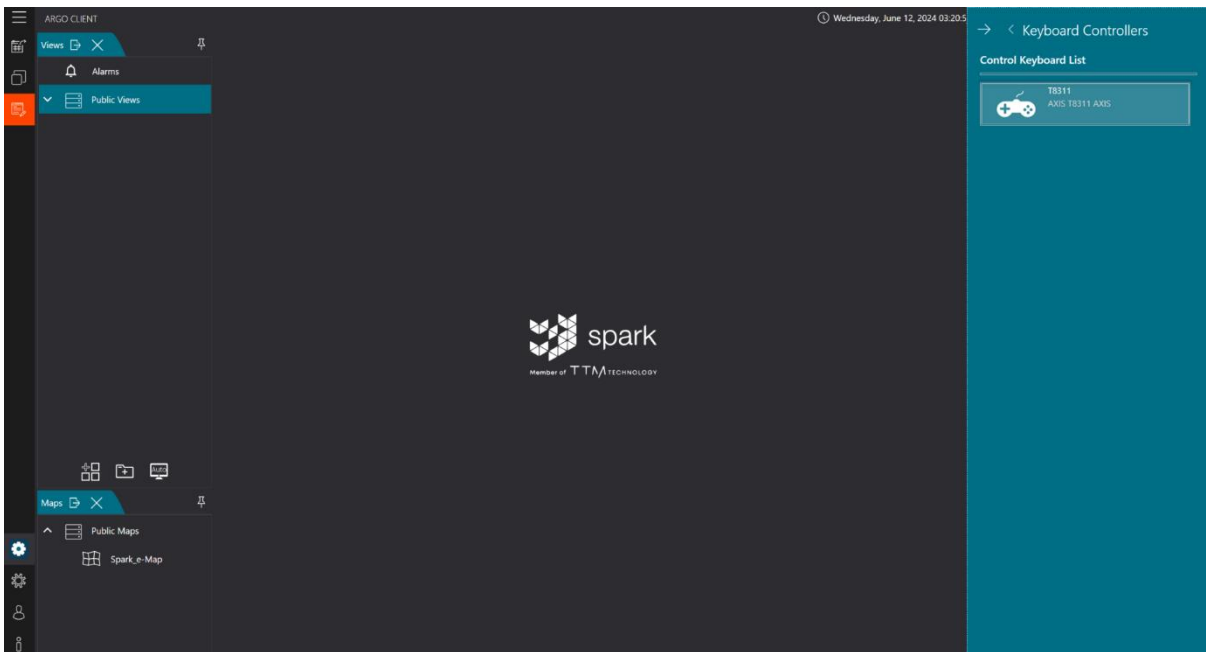




- Click the bottom left [**Options**] and select [**user interaction mode**].
- Shortcuts: when enabled, users can use below shortcuts.

Escape	Exit	F7	Device
F2	Batch export file	F8	Export file
F3	Window	F9	PTZ control
F4	Edit mode	F10	Access control
F5	Maps	F11	Audio
F6	View	F12	Analytics report

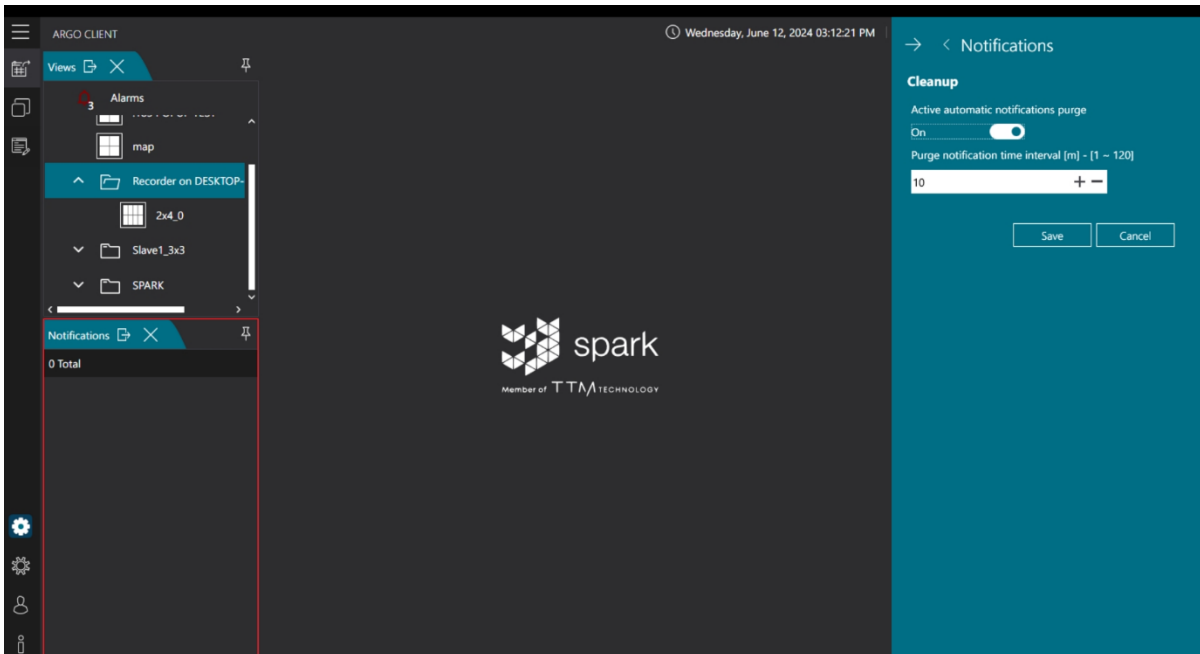
16.6 Joystick



- Click the bottom left [**Options**] and select [**joystick**].

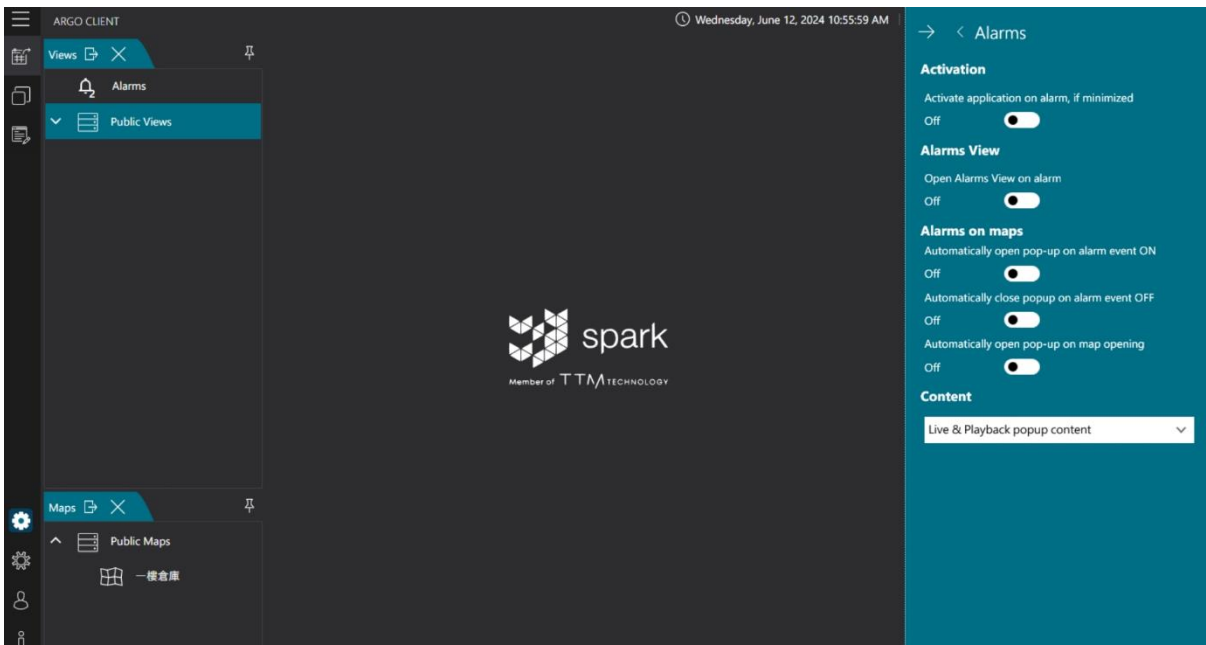


16.7 Notification

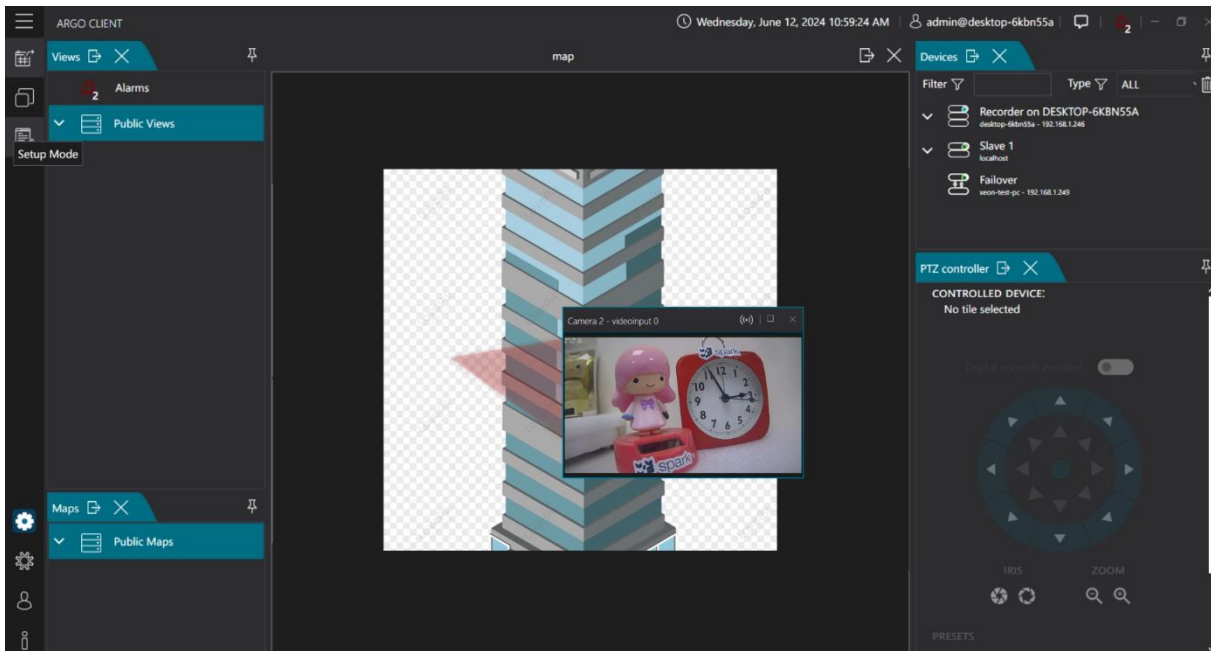


- Click the bottom left **[Options]** and select **[notification]**.
- Clear: select automatic clearing of notifications or set interval.
Clearing interval range: 1~120 minutes

16.8 Alarm



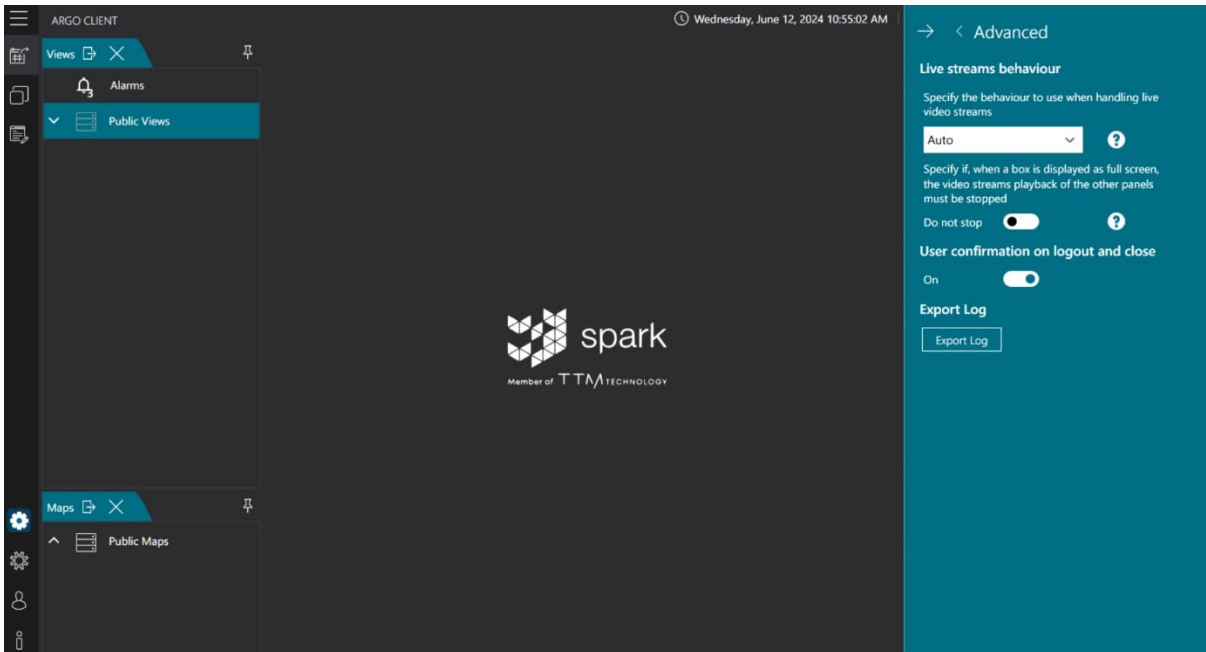
- Click the bottom left **[Options]** and select **[alarms]**.
- Restore from Minimize: When enabled, the window will be restored from minimize when an alarm occurs
- Alarm View: When enabled, the system will automatically switch to the alarm page when an alarm occurs.



- Alarm on Maps
 - A. Open alarm popup: when enabled, a popup window will automatically open on the Maps when an alarm is triggered.
 - B. Close alarm popup: when enabled, the popup window will automatically close on the Maps when the alarm is dealt with.
 - C. Open popup on Maps: when enabled, the popup window will automatically open when the Maps is opened.
To open the Maps, double-click on the Maps and it will display in full screen mode.
- Popup window content:
 - A. Live view popup: when enabled, the popup window will display the device live view.
 - B. Playback popup: when enabled, the popup window will playback the images of the event triggered.
 - C. Live view and playback popup: when enabled, live view and playback images will display simultaneously.



16.9 Advanced



- Click the bottom left [**Options**] and select [**Advanced**].
- Real-time streaming behavior
 1. Specify real-time streaming behavior: can be set to auto or highest resolution

Note:

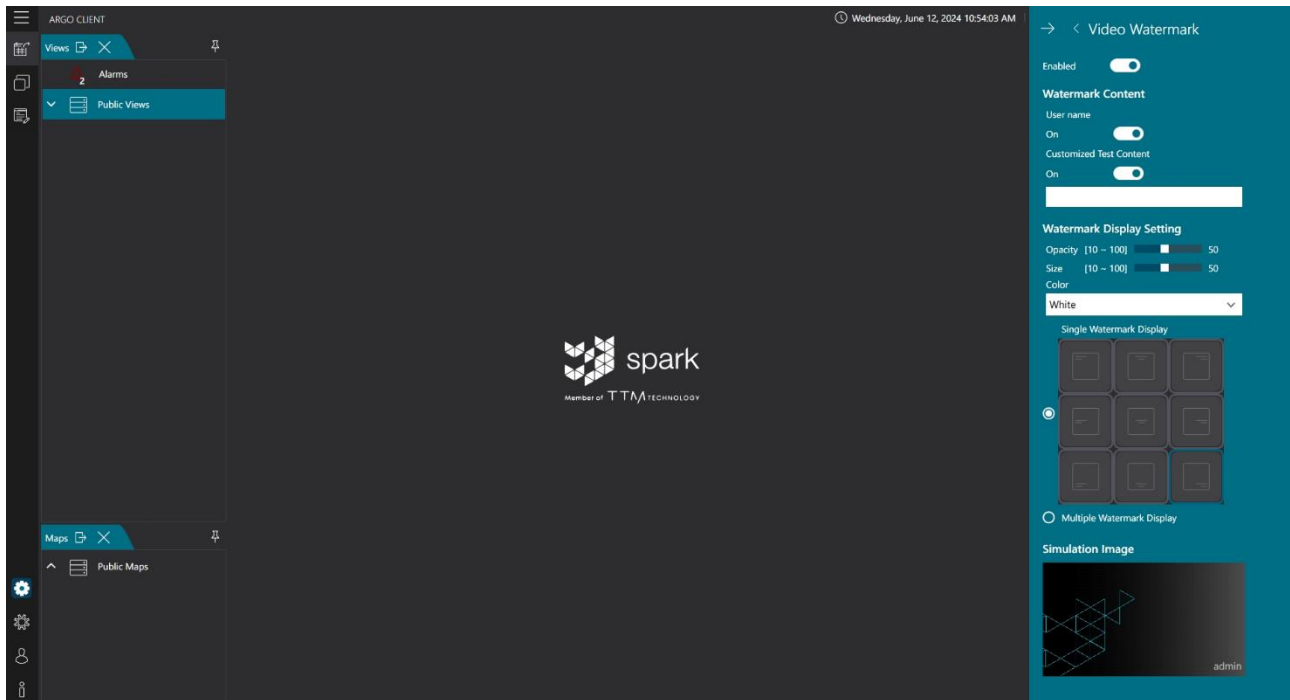
 - A. When setting the specified behavior for processing real-time streams to automatic, it typically defaults to lower resolution to reduce computer energy consumption.
 - B. The selected option will apply the following rules:
 - a. When a user opens a screen, the client will choose the lowest resolution available for the camera (excluding thumbnail streams).
 - b. When a user enters full-screen mode, the client will automatically switch to the highest resolution available for the camera.
 - c. When a user exits full-screen mode, the client will automatically switch back to the lowest resolution available for the camera (excluding thumbnail streams).
 2. Pause other channels when entering full-screen mode:
 - A. Enabled: When this feature is enabled, entering full-screen mode on one channel will pause other channels
 - B. Disabled: When this feature is disabled, entering full-screen mode on one channel will not pause other channels
- Logout/close program confirmation



Enabled: a confirmation prompt will be displayed when logging out or closing the program.

- Export log: Click **[Export logs]** to export complete system program log

16.10 Watermark



- Click the bottom left **[Options]** and select **[Watermark]**.
- Watermark content: edit the username and custom content.
Username: when enabled, the watermark will display the username.
Custom content: when enabled, users can custom watermark content.
- Watermark display options:
Edit the text transparency, text size, text color, single watermark display position, or multiple watermarks filling the image.
Text transparency: edit the transparency of the watermark text, ranging from 10 to 100.
Text size: edit the size of the watermark text, ranging from 10 to 100.
Text color: edit the watermark text color, choosing between white or black.
Single watermark display position: display a single watermark at the specified position.
Position options: top left / top center / top right / center left / center / center right / bottom left / bottom center / bottom right (9 positions in total)
Multiple watermarks filling the image: display watermarks at all nine positions, filling the image with watermark content.
Watermark preview: preview the watermark settings.



17. USER

17.1 Change password

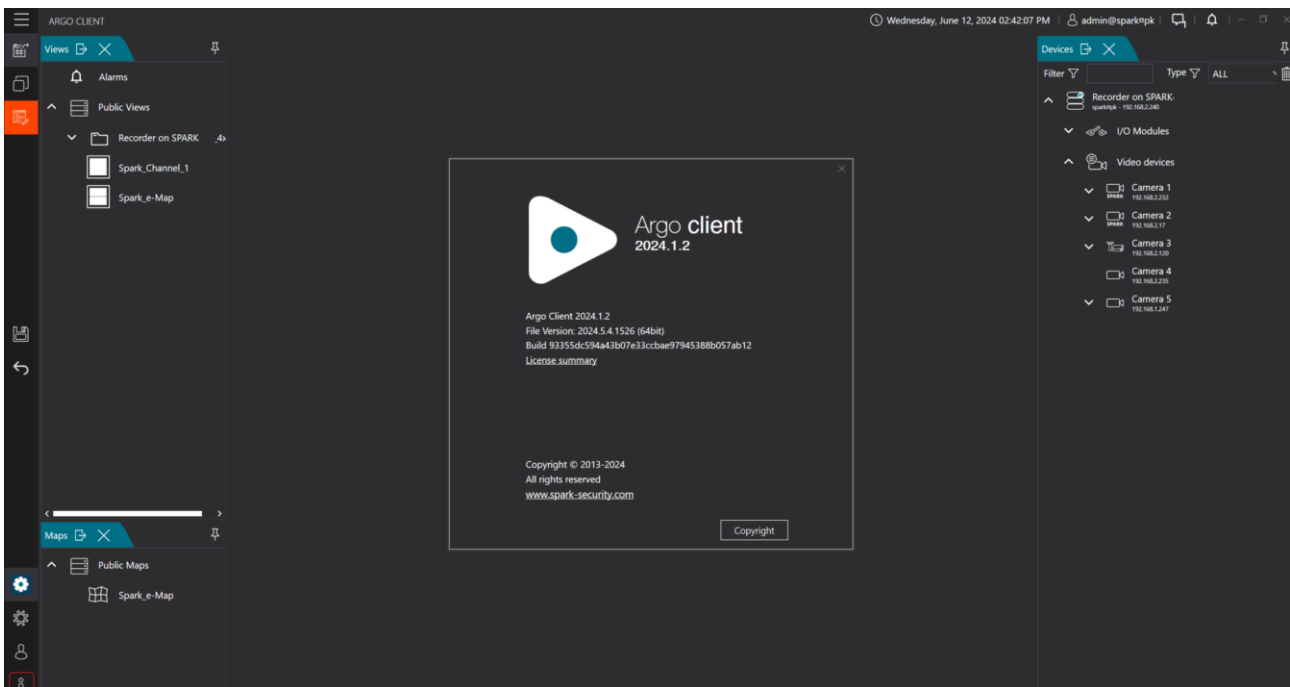
- Click on **[User]** then click **[change password]**. After changing password, click **[change password]** to confirm.
- Username: usernames cannot be modified.
- Old password: insert username old password
- New password: insert new password
- Retype password: retype the password

17.2 Logout/Close

- Logout: click **[logout]** to logout of Argo Client and return to the login page.
- Close: click **[close]** to close Argo Client.



18.ABOUT



- Click on the bottom left [i] to browse the system program version.
- Click "License Summary" to view information such as license keys, license status, expiration dates, and more.
- Click www.spark-security.com to access Spark official website
- Click [**Copyright**] to browse detailed copyright information.



spark

HQ

Via Antonio Gramsci, No. 86/A
42124 Reggio Emilia, Italy
Tel. +39 0522 929850
info@spark-security.com

Asia office

No. 45, Aikou 2nd Rd., Zhubei City,
302053 Hsinchu County, Taiwan
Tel. +886 3 575 2786
info@spark-security.com.tw

**For more information,
please visit us at www.spark-security.com.tw**

