



*Now you can see!*



# **USER MANUAL**

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# 1 Introduction

## 1.1 Introduction

### 1.1.1 Summary

Ossia CMS Standard is a newly integrated security management platform released by our company, seamless access to all products of our products and encoding devices of the famous manufacturers in the industry (like Hikvision, Dahua, etc.). With the powerful capability of video surveillance management, real-time preview, record storage, record playback, record download, alarm linkage

### 1.1.2 Front-end Access

- Front-end devices include IPC, DVR and NVR.
- You need to connect monitor devices such as IPC, DVR, and NVR to the internet through hubs or routers accessed by network cables (less than 100 meters) or optical fiber.
- Run monitor client through a local PC to configure the local video monitor, monitor devices and so on.

## 1.2 Version

Version	Channel Access
Ossia CMS v2.1	Up to 256ch

# 2 Configuration Requirement

## 2.1 Software and Hardware Configuration Requirement

### 2.1.1 S&H Config Requirement for Backgrounding Monitor

No.	Ossia CMS components	Recommendation for hardware configuration	Recommendation for software configuration	Number
1	Monitor Client	Inter(R) Core(TM)i3 3.40GHz or above/4GB DDR3/NV GT430 or AMD HD 6570 or above, above 512MB GDDR5 Memory (multi-screen : 1GB GDDR5 memory) /500GB SATA/100M NIC	Windows 7 SP1 32bit/64bit Professional/Ultimate Windows 8 32bit/64bit Professional Windows 10 32bit/64bit Professional	As required by user

The recommended 64-bit hardware configurations are as follows.

No.	Ossia CMS components	Recommendation for hardware configuration	Recommendation for software configuration	Number
1	Monitor Client-64bit	Inter(R) Core(TM)i5-64002.70GHz or above /16GB DDR3/Intel HD Graphics 530 2GB or above/ NVIDIA GeForce GTX 1060 6GB or above, (multi-screen : 2GB GDDR5memory) /500GB SATA/Gigabit NIC	Windows 7 SP1 64bit Professional/Ultimate Windows 8 64bit Professional Windows 10 64bit Professional	As required by user

## 3 Install and Uninstall the Software

### 3.1 Install the software

- 1) Double click “Ossia CMS Client setup.exe” and then select the UI language as needed.
- 2) A tip will pop up to suggesting that you close the antivirus software.
- 3) Click “I accept the terms of the license agreement” and then click [Next].
- 4) Click [Browse] to select the installation location and then click [Next].
- 5) Check “Launch Software” as needed and then click [Finish]”.

### 3.2 Uninstall Software

If the new version needs to be installed or there is no need to use this software, this software can be uninstalled. It is strongly recommended to back up the configuration data before installing the new version of Ossia CMS.

The uninstallation steps of the Server are similar to the uninstallation of the client.

Click “Start” → All Programs → Ossia CMS Server → Uninstall to pop up the following wizard. Click “Yes” to confirm.

Then click the “Finish” button to completely uninstall Authentication Server.

Repeat these stages for the Ossia Client if required.

## 4 Login

### 4.1 Login

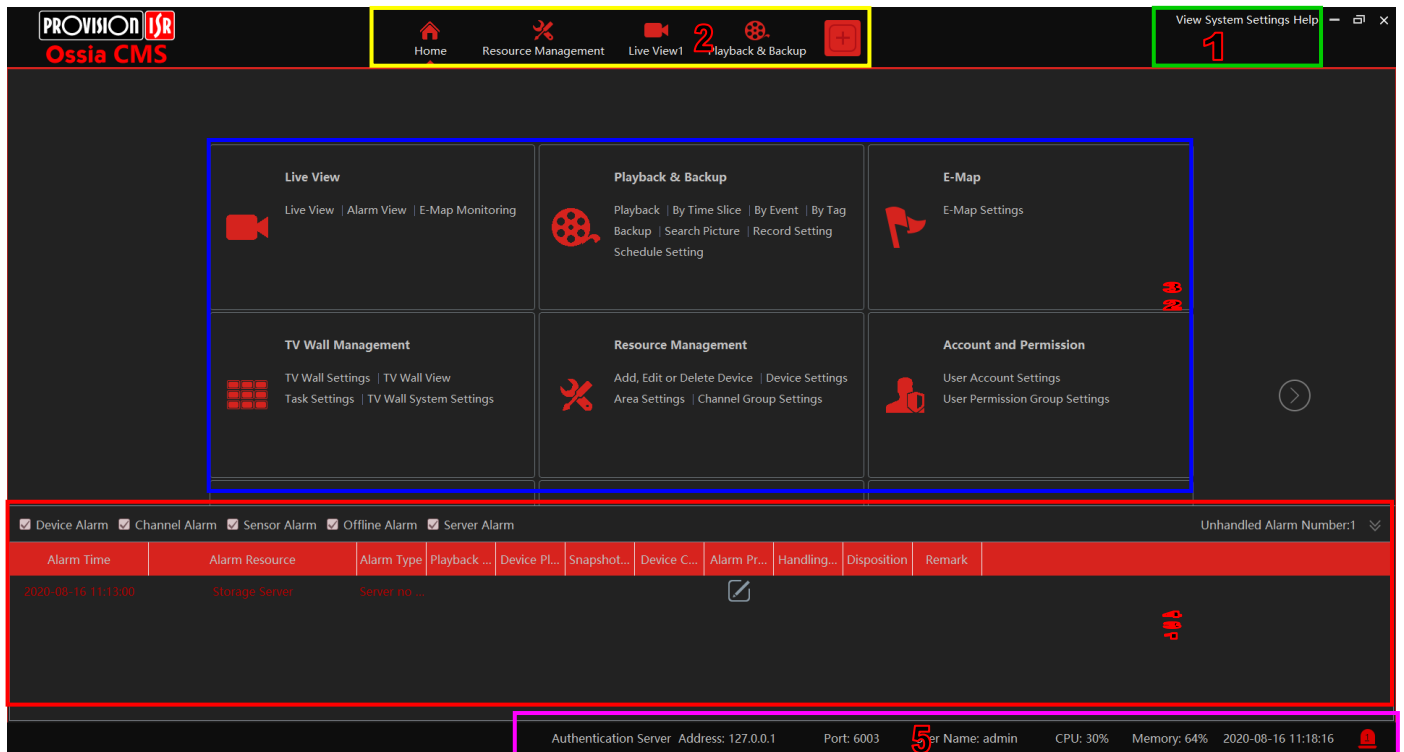
Double click the shortcut icon of “MonitorClient” to run the software as shown below.

- ① Enter username and password (the default username is admin; the default password is 123456). Check “Remember Password” or “Auto Login” as needed.
- ② Click [Login].
- ③ Upon first login only, you will be required to set recovery questions and answers for admin password restore purposes. I will keep popping up until you will set it.

After you log in, a record partition setting box will pop up. Please select the desired record storage location. Then click [OK] to save the settings.

	Partition ...	Partition ...	Remainin...
<input type="checkbox"/>	C	476GB	91GB
<input type="checkbox"/>	D	834GB	321GB
<input type="checkbox"/>	G	50GB	49GB

## 4.2 Main Menu Interface Introduction



There are five parts to the main menu interface. The descriptions of each part are as shown below.

No.	Description	No.	Description
1	Menu Bar	4	Alarm Information Bar
2	Window/Function Bar	5	Status Bar
3	Work Areas		

Menu Bar (1):

Menu	Description
<b>View</b>	“Live View”, “Edit live view”
<b>System</b>	Including “Live View”, “Record Playback”, “E-Map”, Resource Management”, “Account and Permission”, “Alarm Center”, “Face Recognition”, “People Counting”, “Record Management”, “Operation and Maintenance Management”
<b>Help</b>	Including “User Manual” and “About Ossia CMS”







Window/Function Bar (2):

Shows all the windows that are currently active/working. All tabs can be closed except home. Through “Home” you can access any other function.

Functional area. Click  to view more menus.

Menu	Description
<b>Live View</b>	To view live images and to record, snapshot and talk, etc.
<b>Record &amp; Backup</b>	To remotely play the local records or back up records.
<b>E-Map</b>	To manage and display maps, hot spots, etc.
<b>TV Wall Management</b>	To set a TV wall and decoding videos on TV Walls
<b>Resource Management</b>	To add, modify or delete areas, devices or servers.
<b>Account and Permission</b>	To add, modify or delete a user account and set permissions for these accounts.
<b>Alarm Center</b>	To set alarm linkage and schedule; To search alarm logs.
<b>LPR Monitoring</b>	Manage and monitor LPR camera on site
<b>Face Recognition</b>	To recognize, compare or search face.
<b>Face Greeting</b>	To welcome visitors based on face recognition technology
<b>Face Attendance</b>	To help to manage staff attendance based on face recognition technology
<b>People Counting</b>	To monitor and analyze people flow in real-time
<b>Operation and Maintenance Management</b>	To search, export and maintain logs.
<b>Local Configuration</b>	To set record path, snapshot path, system startup and maintenance, overload and alarm view.

Other buttons:

Button	Description
	Click it to hide the interface.
	Click it to zoom in or out the interface.
	Click to exit the software.
	Click it to add the live view page.
	When the tab pages exceed the applicable numbers, this icon will display. Click it to view the hidden tabs.
	Close the page


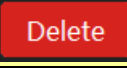
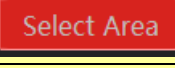
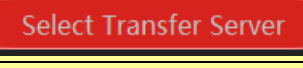
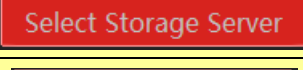

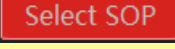


## 5 Device Management

### 5.1 Encoding Device

Encoding device are all the possible video encoding devices (IPC / NVR / DVR).

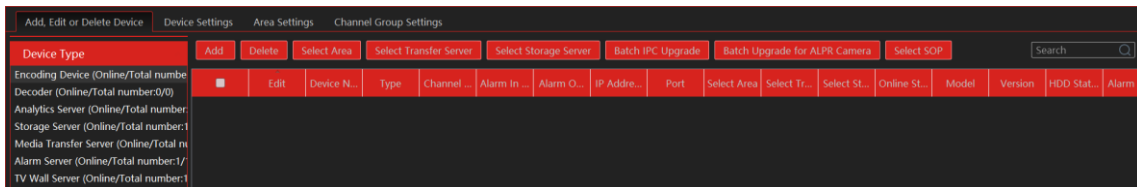
Under this section you will find the following controls:

Button	Description
	Add a new encoding device
	Delete an encoding device
	Select the area which will contain the encoding device.
	Select the transfer server for the encoding device
	Select the transfer server for the recording device
	Update IPC from the same type (same IPC FW)
	Select SOP (Standard operating procedure) for the encoding device

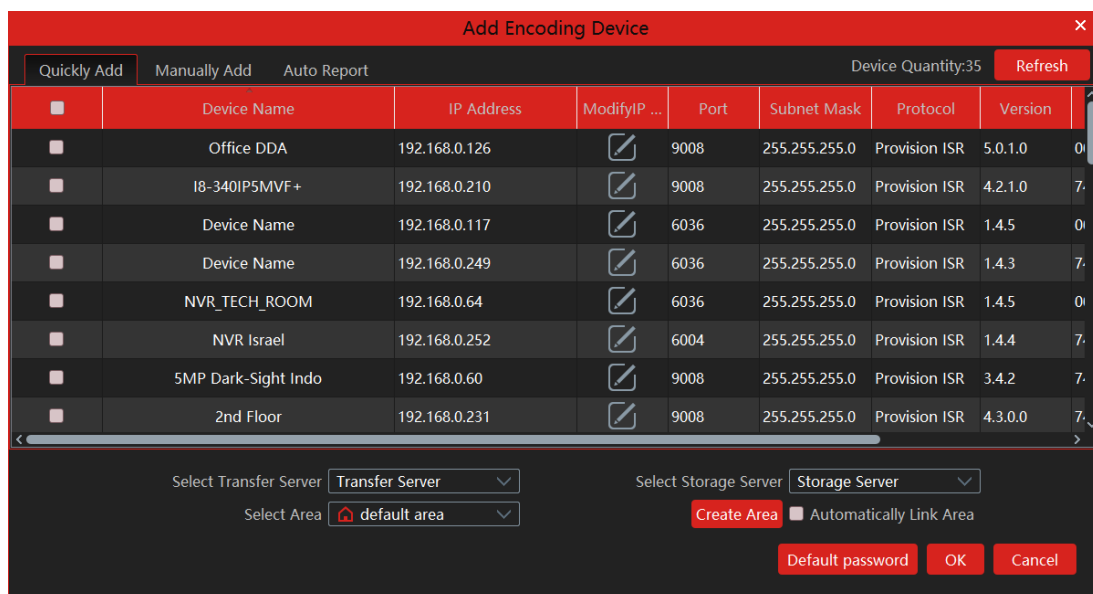
#### 5.1.1 Adding Encoding Device

Adding a device can be done in various methods as described below:

In the main menu interface, click “Add, Edit or Delete Device” to go to the following interface as shown below.



Click [Add] as shown below.



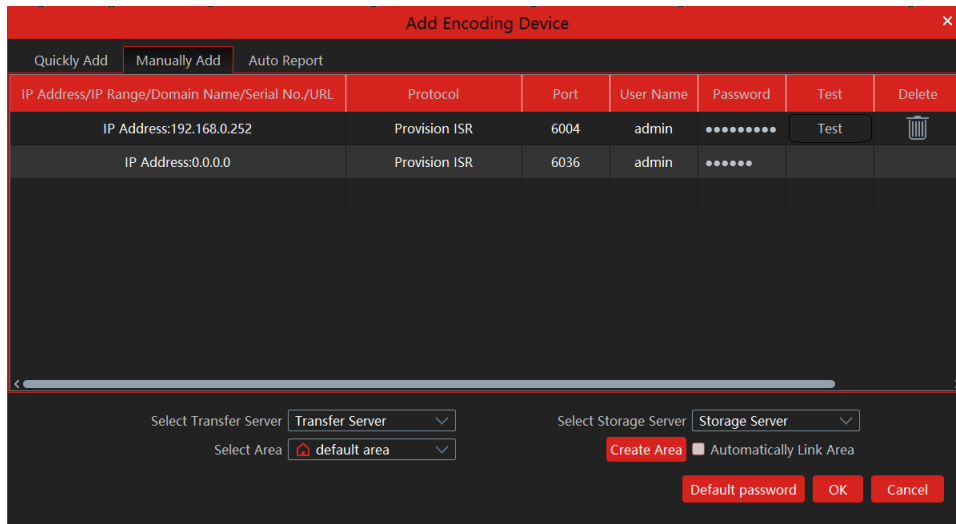
### 5.1.1.1 Quickly Add

Click [Refresh] to quickly search devices in the same local network as shown below. Check the device and allocate the transfer server, storage server, area for it. After that, click [OK].

**Note:** \* The default media transfer server and storage server can be selected when adding devices. Users can also create a new media transfer server and storage server in advance (see Add Media Transfer Server and Add Storage Server).

\* Area must be set up before adding devices. Click [Add Area] to create an area (See Area Setting).

### 5.1.1.2 Manually Add

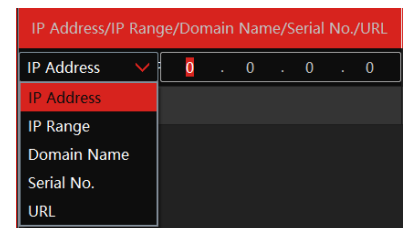


① Enter IP address/IP range/domain name/ serial number (P2P), username and password and choose protocol type.

② Click [Test] to test whether the device is connected successfully or not.

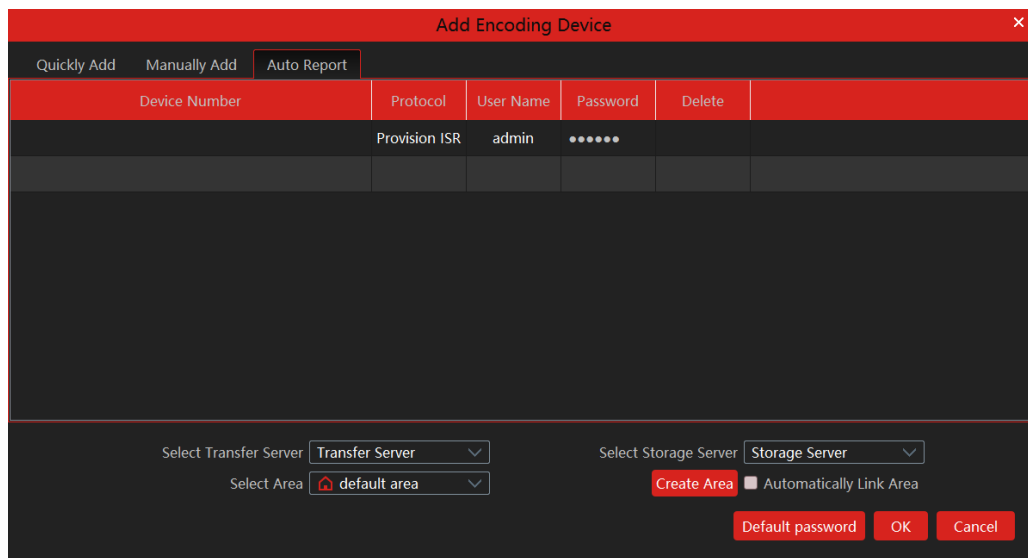
③ Select transfer server, storage server, and area and then click [OK].

Devices can be added in batch by adding IP range.



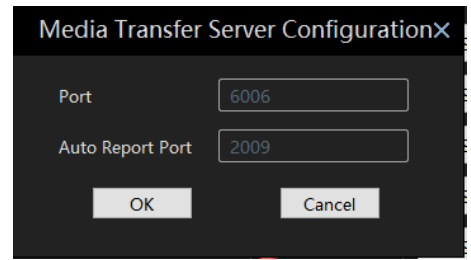
### 5.1.1.3 Auto Report

Select the “Auto Report” Tab to see the following interface.



Auto Report is used to save time and resources. Instead of the Ossia CMS to connect to the device (Requiring IP address & port forwarding each one of the devices), the devices will connect to the Ossia CMS. For that you need to set a fixed IP or DDNS to the Ossia CMS server and set port forwarding to port 2009 (By default), or any configured auto report port to the Ossia CMS server address.

In order to change the auto report port, click on “Configure” of the transfer server line, and change the port. Once applied, the server will reboot automatically and the configuration will take into effect.



- ① Enter the device ID set in the DVR/NVR or IP camera and choose the protocol.
  - If the DVR/NVR is needed to add, please go to the Network→Platform Access interface of the DVR/NVR. Check “Enable”, enter the IP address and port (default 2009) of the Ossia CMS and then set the device number of the DVR/NVR.
  - If the IP camera is needed to add, please go to Network Configuration→Server Configuration of the IP camera. Check “Do you want IP camera to connect Server”, enter the IP address and port (default 2009) of the Ossia CMS and then set the device number of the IP camera.
- ② Select the transfer server, storage server, area and then click [OK].

### 5.1.2 Modify or Delete Device

After devices are added successfully, they will be listed below.

	Edit	Device Name	Type	Channel ...	Alarm In N...	Alarm Out...	IP Address/IP R...	Port	Select Area	Select Transfer...	Select Storage S...	Online St...	Model
<input type="checkbox"/>		NVR Israel	Provision ISR	15	16	12	192.168.0.252	6004	default area	Transfer Server	Storage Server	Online	NVR8-16...
		Model	Version	HDD Stat...	Alarm St...	Open in ...	SOP Settings	Delete					
		NVR8-16400F(1U)	1.4.4.40032B200808.N4I.U2(16A820).beta.P0										

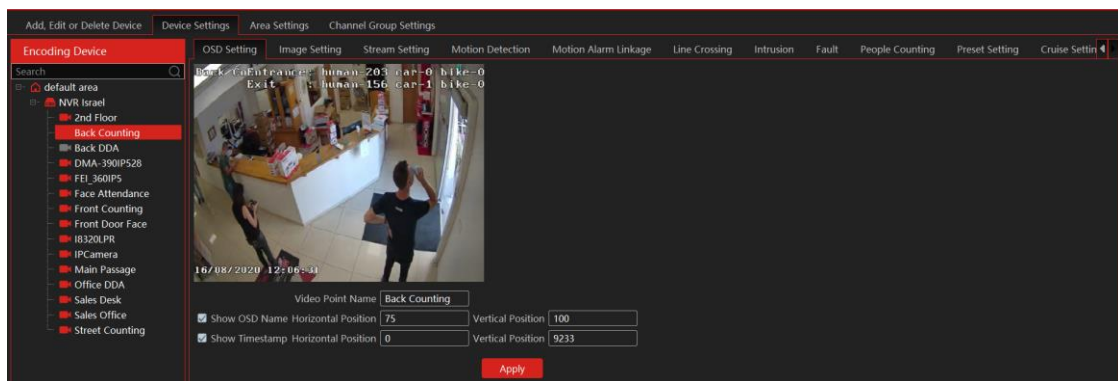
The device channel number, alarm status, online status, and record status can be viewed from the above table.

Click to modify the IP address, port and so on.

Click to delete the added device. Check the devices and click [Delete] to delete devices in bulk.

### 5.1.3 Device Setting

Go to Home→ Device Setting interface as shown below. In this interface, the parameters of the device can be set up.

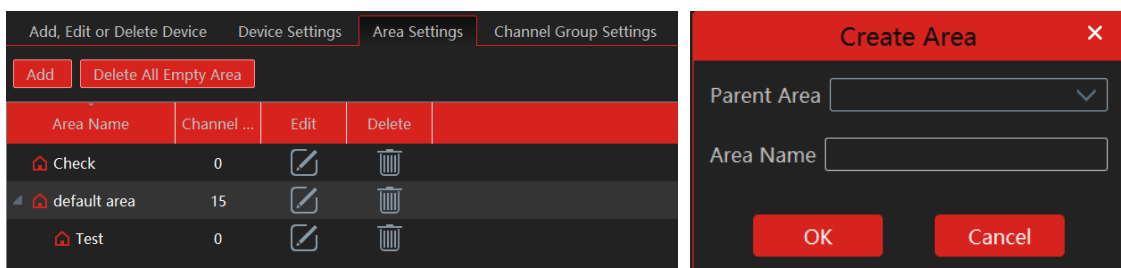


Different devices have different menus. Please configure the device according to the corresponding user manual.



### 5.1.4 Area Setting

The area settings are used so that you will be able to build a “tree” of devices and areas (For example World→Israel→Tel-Aviv→Rabin High-School). The user permission will be associated with these areas.

Go to Home→Area Setting interface as shown below.







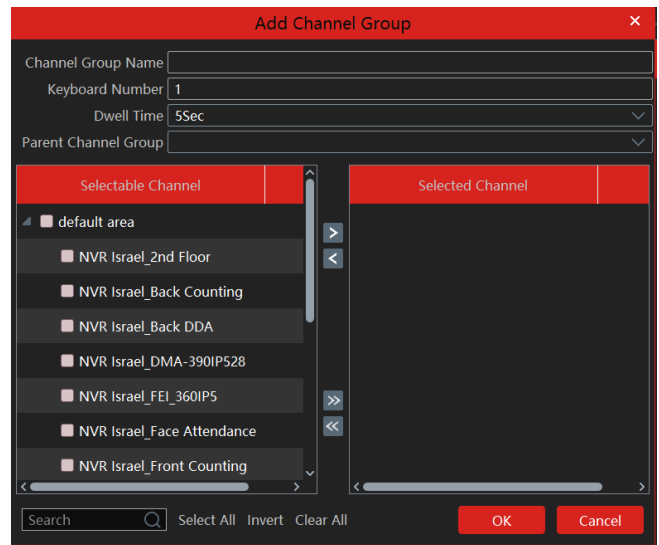
Click [Add] to go to Area adding interface. Enter area name to create parent area. Then click [OK] to save the settings. To create sub-area, click [Add], choose the parent area, enter the area name and click [OK].



Click  to modify area; click  to delete an area.

## 5.2 Channel Group Setting

Go to Home → Channel Group Setting interface as shown below.

- ① Click [Add].
- ② Enter a channel group name, channel group and dwell time.
- ③ Select the parent channel group.
- ④ Add channels to the channel group. Check the desired channels and click  to add channels; choose the selected channel and click  to remove those channels; Click  to add all channels; click  to remove all selected channels. You can also enter the keywords to search the channels and then select them.
- ⑤ Click [Ok] to save the settings.

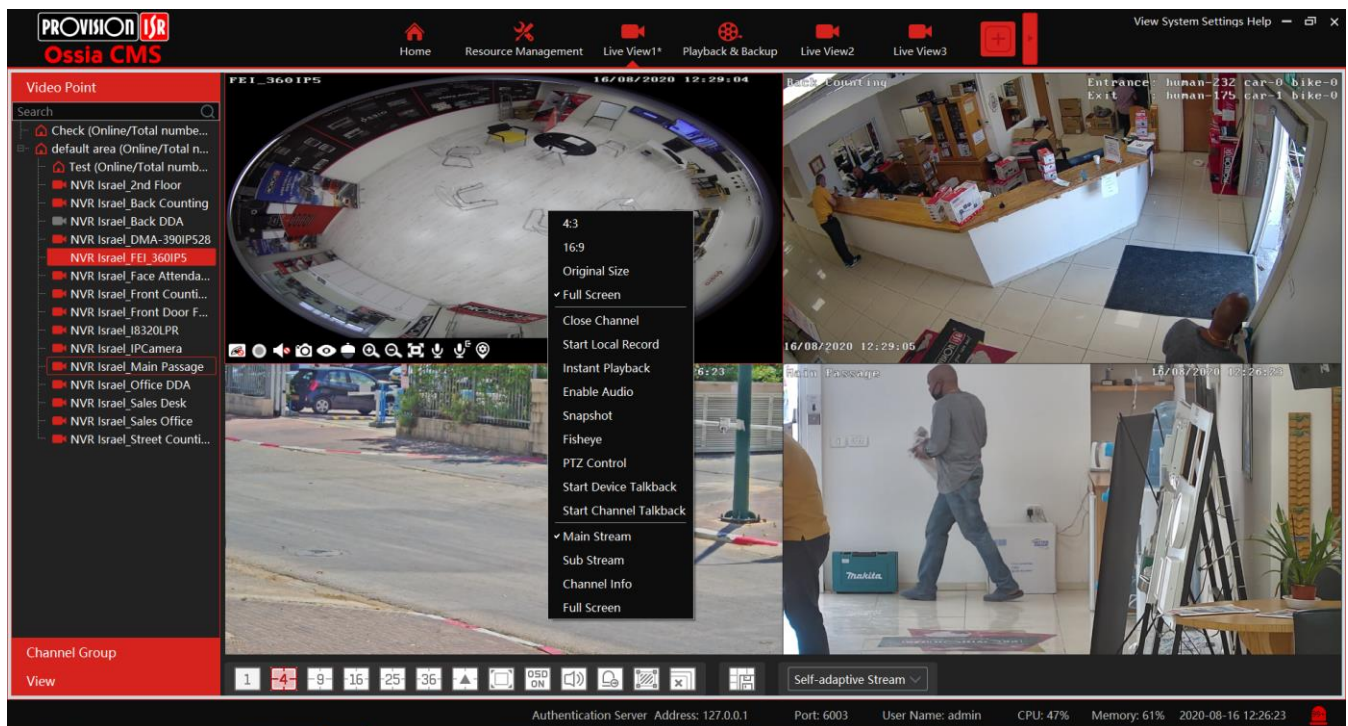


Select the added channel group and click  to modify the channel; click  to delete the channel.

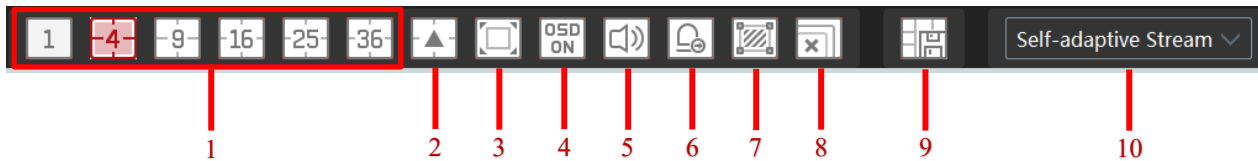
# 6 Live View

## 6.1 Live View

Go to Home → Live View interface as shown below.



The descriptions of the live view buttons are as follows.



NO.	Description	NO.	Description
1	Standard Screen display modes	6	Alarm Output Selection
2	Advanced Screen display modes	7	Show analytics ROI
3	Full screen	8	Close all channel view
4	Enable/disable OSD	9	Save the current view mode
5	Audio Broadcast	10	Choose channel stream

Channel stream: main stream, sub-stream, third stream, and the self-adaptive stream can be optional. When the third stream is selected, the system will automatically switch to sub stream if the channel/camera doesn't support the third stream.

Toolbar on the display window:

Button	Description	Button	Description
	Close image		Zoom in
	Start/stop recording		Zoom out
	Enable/disable audio		Fit to window
	Snapshot		Enable/disable talkback with <b>Device</b>
	PTZ control		Enable/disable talkback with <b>Channel</b>
	Monitoring point setting (camera setting)		Fish-Eye View
	3D zoom in		

Right-click button function:

Menu	Description	Menu	Description
<b>4:3</b>	Set the video channel to 4:3 Display	<b>Fisheye</b>	Set Fisheye mode
<b>16:9</b>	Set the video channel to 16:9 Display	<b>PTZ Control</b>	Click it to show PTZ control panel
<b>Original Size</b>	Set the video channel to original native Display	<b>Start Device Talkback</b>	Enable/disable talkback with the device
<b>Full Screen</b>	Play the channel in full screen	<b>Start Channel Talkback</b>	Enable/disable talkback with the channel
<b>Close Channel</b>	Close image	<b>Main Stream</b>	Play in Main Stream
<b>Start Local Record</b>	Start/stop recording	<b>Sub Stream</b>	Play in Sub Stream
<b>Instant Playback</b>	Click it to playback immediately	<b>Channel Info.</b>	Display channel name, IP address and the current stream
<b>Enable Audio</b>	Enable/disable audio	<b>Full Screen</b>	Display image in full screen
<b>Snapshot</b>	Capture images		

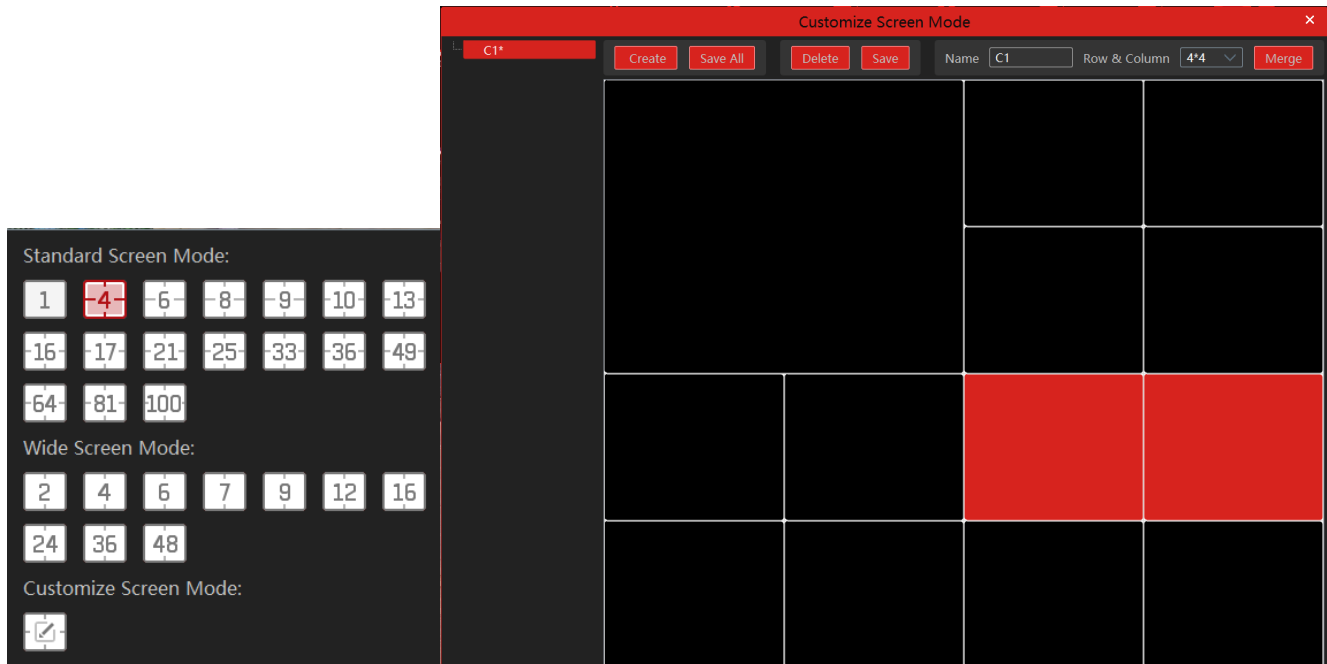
4:3/16:9/Original Size/Full Screen: screen display proportion; please select it as needed.

## 6.1.1 View Mode Setting

Users can select the common display mode and self-define the display mode through the buttons on the toolbar.

To customize the display mode

- 1 Click  on the toolbar.

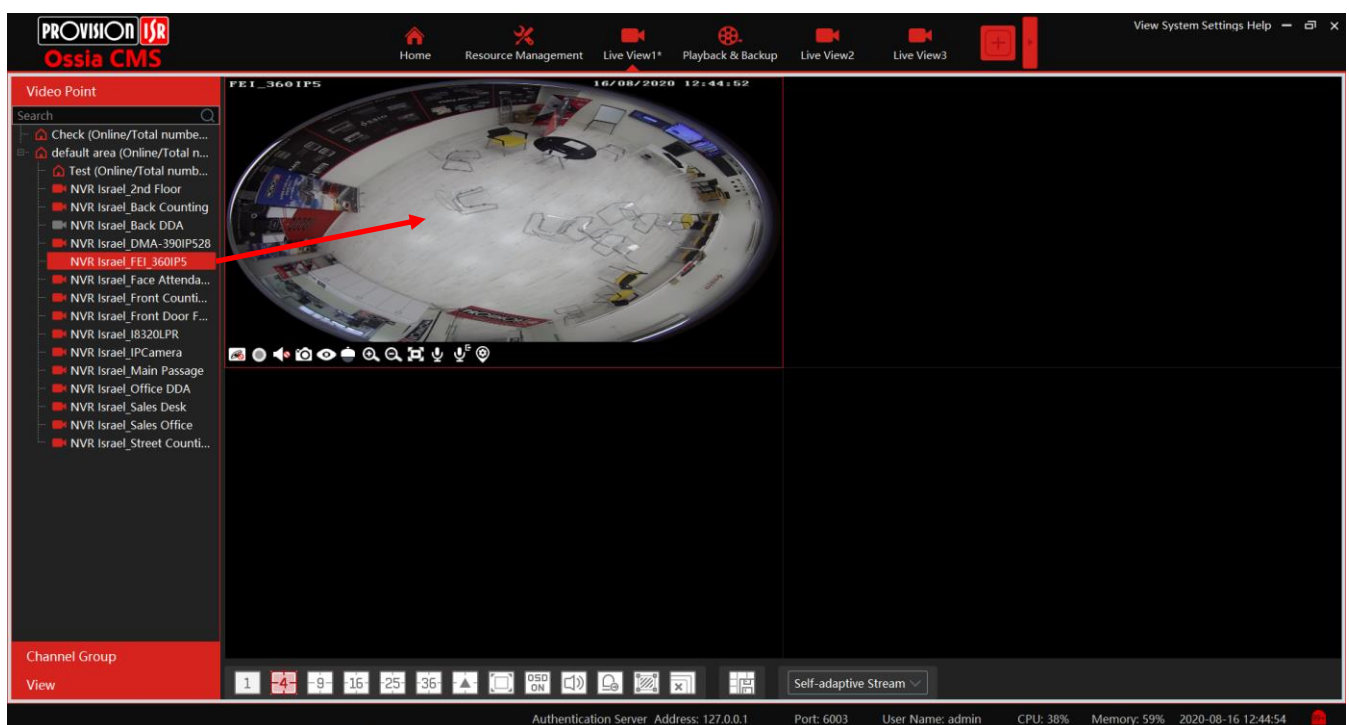


- 2 Enter a screen display name and select the display row and column. Hold the left mouse button and drag on the screen and then click [Merge] to merge the screens.
- 3 Click [Save] to save the settings.
- 4 Click [Create] to create a new display screen mode. Click [Save All] to save all customized screen display modes.



## 6.1.2 Monitoring Point View

### ● Start View

To start a live view, please drag cameras from the list to the right display window or select a camera and then double click the camera. The image can be dragged to any window at random.



- Stop View

- ① Place the cursor on the live view window to display the menu toolbar and then click  to stop viewing.
- ② Right-click on the live view window and then select “Close Channel” to stop viewing.
- ③ Click  on the toolbar of the live view interface to stop all live view.


### 6.1.3 Channel Group View

- Start Channel Group View



After the channel group is set successfully (See Channel Group Setting), go to live view interface as shown below.



You can start the channel group view as follows.

1. Choose the screen display mode according to the channel number of the channel group. Select a window and then double click the channel group name or dragging the channel group to a window to play all channels in the group.
2. In the current screen display mode, select a window and then click  beside the channel group name to play all channels of the channel group in this window in sequence.

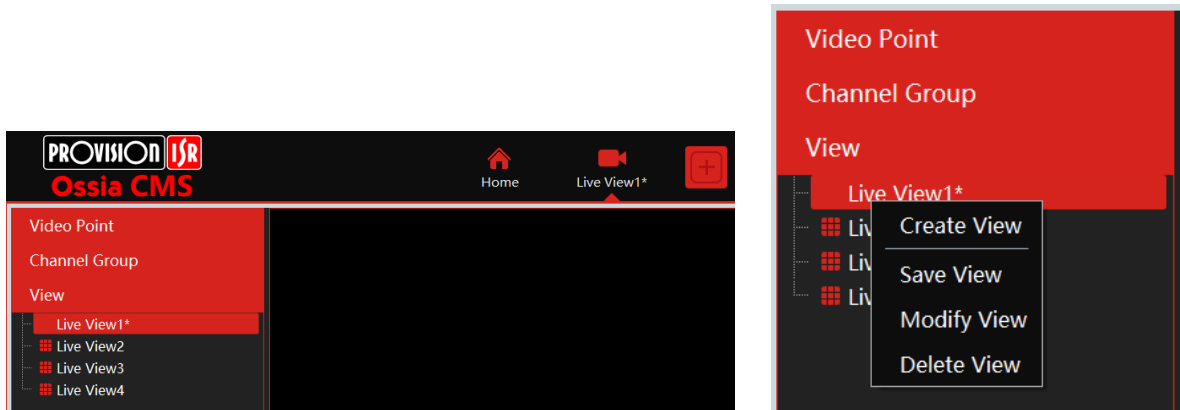
- Stop Channel Group View

- ① Place the cursor on the auto-switch window and then click  to stop viewing.
- ② Right-click the auto-switch window and then click “Close Channel” to stop viewing.
- ③ Click  on the toolbar of the live view interface to stop all live view.





## 6.1.4 Plan View

In the live view interface, select “View” on the left menu bar.



- Add View Plan:

- ① Right-click “Live View 1” and then select “Create View” or click  to add a new view plan. Clicking “Create View” to prompt an adding view window. Enter the view name and click [OK] to set the view plan.
- ② Select screen display mode and then drag monitoring points or channel groups to each window.
- ③ Click “View” on the left menu and then right-click the newly added view name. Select “Save View” on the pop-up menu to save the view plan or click  on the live view interface to save the view plan. Double click view name to call the view plan.

- Modify or Delete View Plan


Select the added view and then right-click to prompt a pop-up window. Select “Modify View” or “Delete View” to modify or delete the view plan.

## 6.2 View Control

- Multi-screen Display

In the live view interface, the screen display mode can be selected as shown aside.


- Full-Screen Display

In the live view interface, click  button on the toolbar or right click on the mouse to select “Full Screen” to display the window in full-screen mode. Right-click on the mouse to select “Exit Full Screen” on the full-screen interface to exit the full screen.

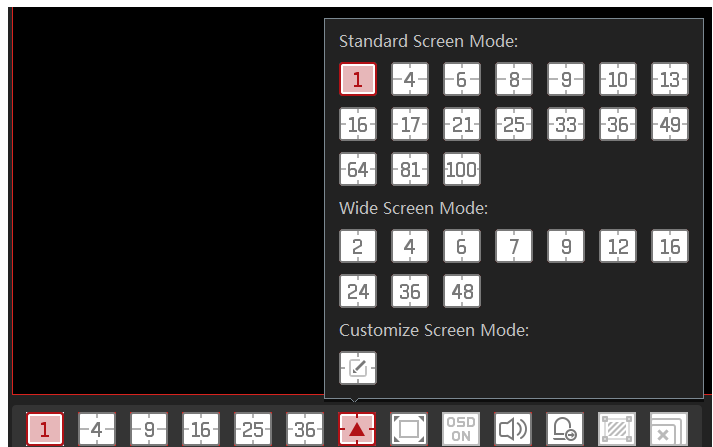
- Single Channel Display

Double click a window to view in single-channel mode. Double click the window again to recover the window.

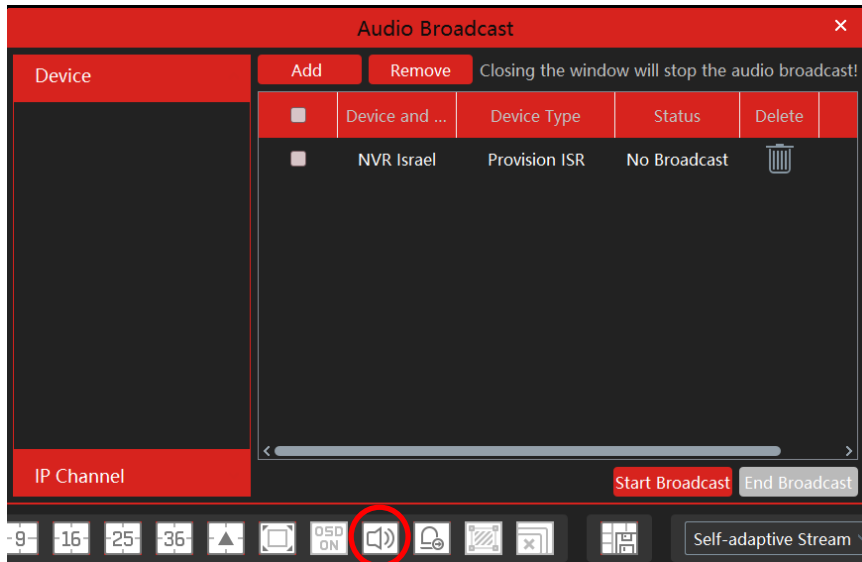
- Audio Broadcast

Click  to bring an audio broadcast box as shown below.


The left device list shows the devices that support audio broadcasts. Check the device and click [Add] to add the desired broadcast device. Click [Start Broadcast] and then all added devices will start the broadcast. Select the added device and click [Delete] to delete the device.



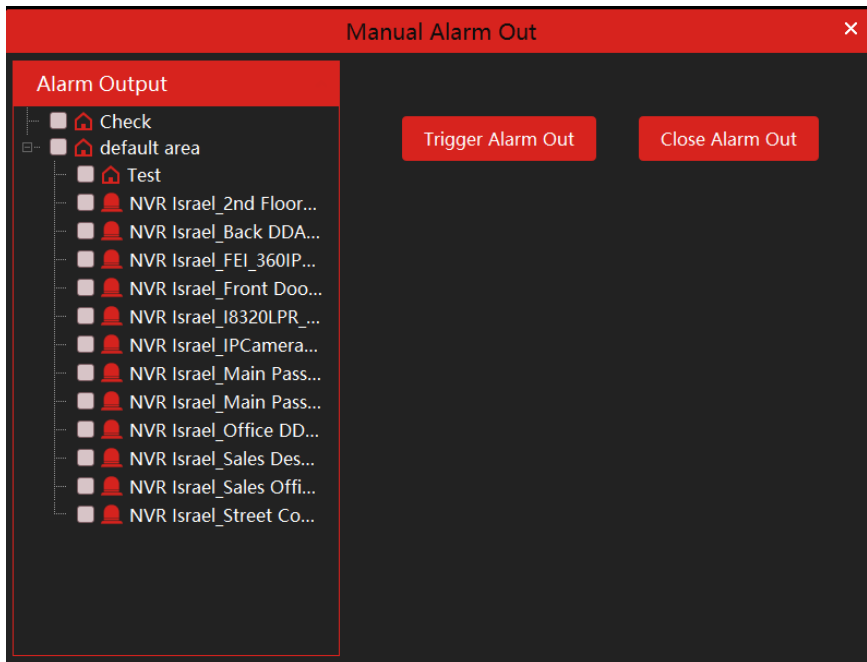




● Batch Alarm output

Click  to open the batch alarm output box as shown below.

The left device list shows the devices that support alarm output. Check the device and click “Trigger alarm out” or “Close alarm out” as required.




● Stream Setting

Right-click on the live view window to choose a video stream or select a self-adaptive stream or other streams on the toolbar to set the stream for all channels.

To set streams




Go to Home→Device Setting. Select the device and click the “Stream Setting” tab to set streams.

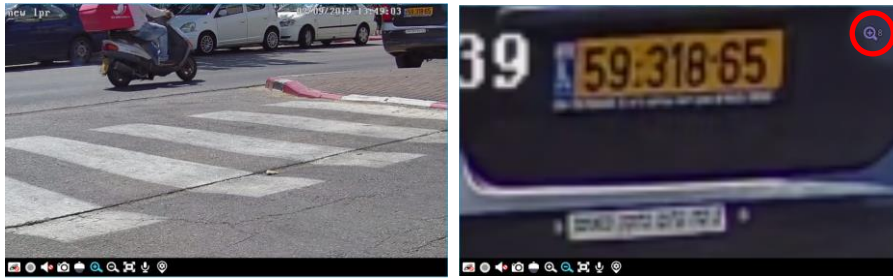
● Audio Control

Right-click on the live view window and then choose “Audio On” or click  on the toolbar of the window to enable audio.

**Note:** Only one audio can be enabled at the same time. If the audio of one channel is enabled, the former audio will be disabled automatically.


● Zoom In or Out

In the live view interface, click  on the live view window to zoom in the window and then drag the image to view the whole image; click  to zoom out the image; click  to restore the image size.

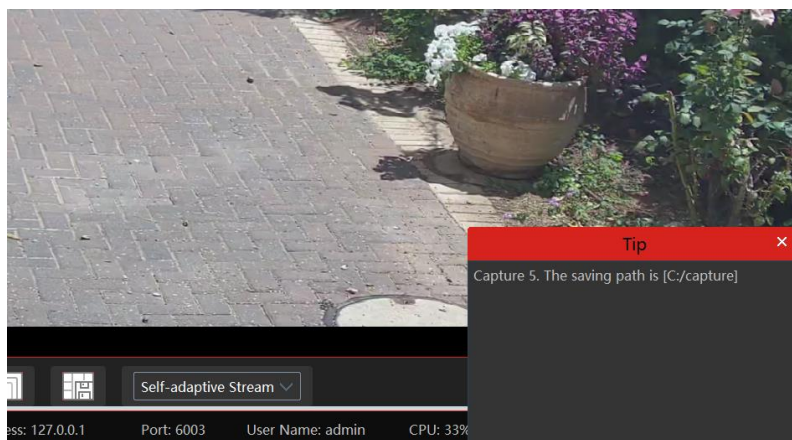


## 6.3 Snapshot

### 6.3.1 Snapshot

Select a window in which the video is playing and then click  on the toolbar of this window or right click on the window and then select “Snapshot”. The image number and storage path will be displayed.

**Note:** Only when the video is playing in the window, will the snapshot succeed.

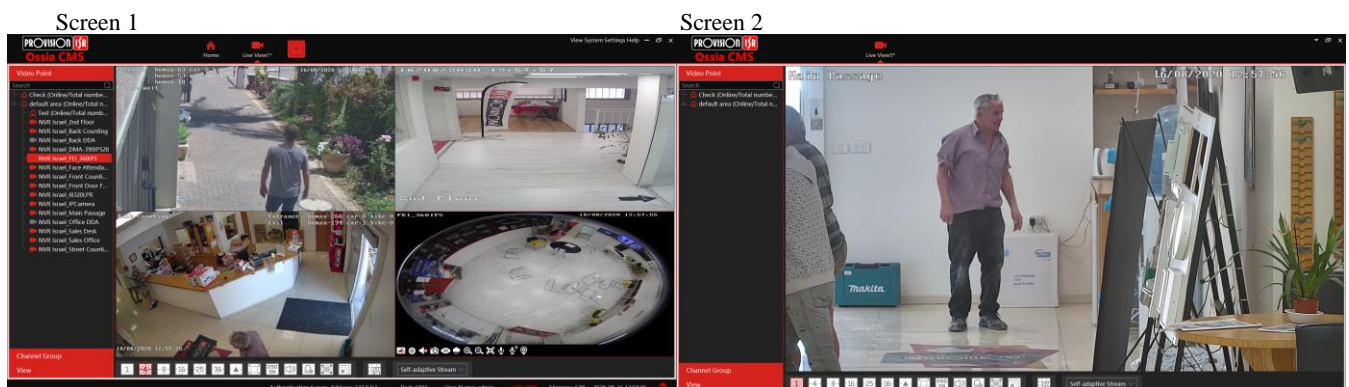



### 6.3.2 Snapshot Setting

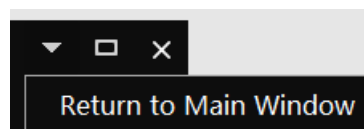
Go to Home→Local Configuration→Record and Snap Setting interface. In this interface, the snapshot path and number can be set up.

## 6.4 Multi-Screen View


In the live view interface, a multi-screen view can be realized by holding a tab and dragging it to other monitors (graphics card should support multi-screen output at the same time).



Click  on the floating window and select “Return to Main Window” to embed this tab in the main interface.

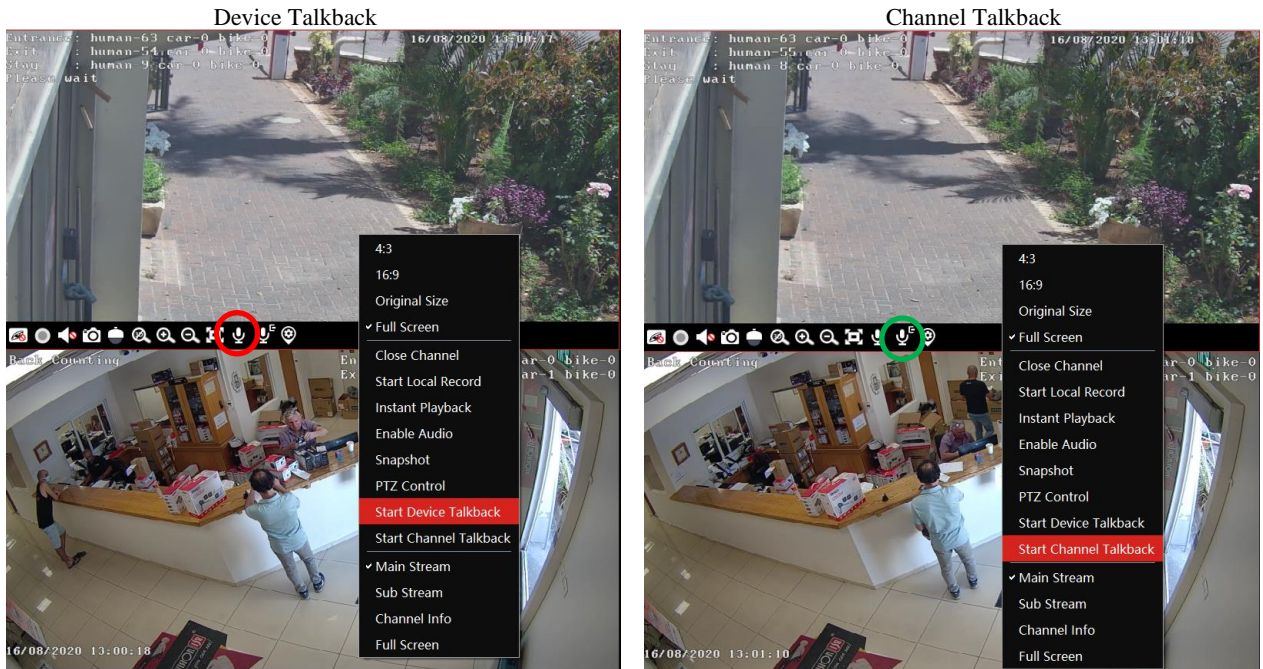


## 6.5 Device Talkback + Channel Talkback


**Device Talkback:** In order to communicate with the operator next to the device, click  on the channel live view toolbar or select “Start Talkback” on the right click menu. This will play audio through the DVR/NVR audio output (Device must support 2-way audio)

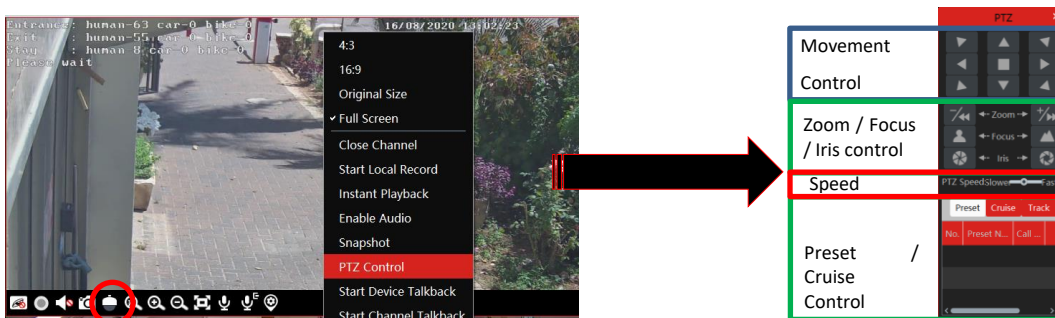
**Channel Talkback:** In order to talk through the IPC audio out, click  on the channel live view toolbar or select “Start Channel Talkback” right click menu. This will play audio through the IPC audio output (Device must support this feature)

**Note:** Since the software only allows enabling one device’s talk at the same time, the system will stop talking with the current device if a new talk is enabled.



## 6.6 PTZ Control

Click  or right click and select “PTZ Control” to open the PTZ control interface. The movement of PTZ, zoom, focus, Iris, preset, track and cruise can be controlled through the PTZ control panel.




# 7 Playback & Backup

## 7.1 Record Configuration

This software supports many recording types, such as manual recording, schedule recording, motion alarm recording, smart alarm recording, etc.

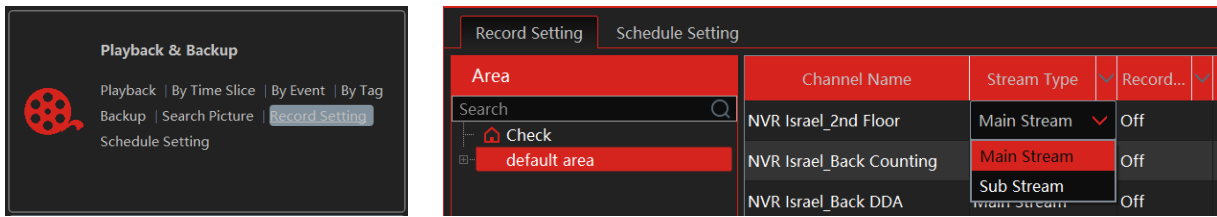
### 7.1.1 Manual Recording

In the live view interface, select a channel and then click  or right click to select “Start record” to start recording. Click this button again to stop recording.

**Note:** If a channel is recording, the recording will stop when the viewing window is closed.

### 7.1.2 Schedule Recording

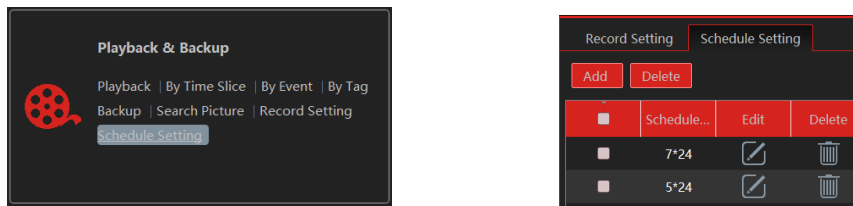
Go to Home→“Record-Setting”.



To set schedule recording, select the channel, stream type, and schedule. Then click [Apply] to save the settings.

● To set schedule:

- ① Click the “Schedule Setting” tab to go to the following interface.

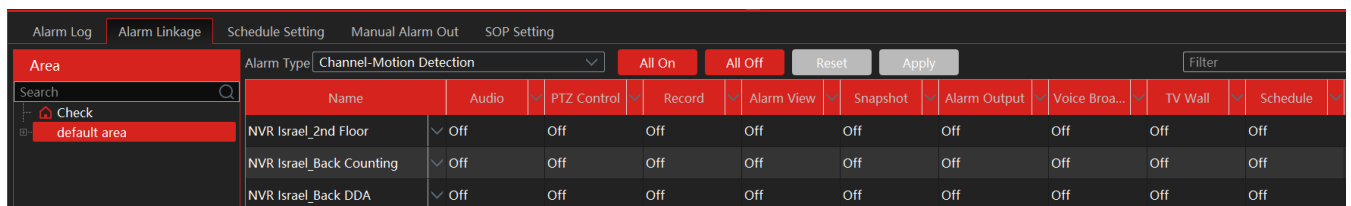


- ② Click [Add].
- ③ Enter the schedule name.
- ④ Set the schedule. Click and then move the cursor to select the time; click and then move the cursor to delete the selected time. Click “Input Manually” to manually enter the time. Click “All” or “Reverse” to quickly select the time. Click “Clear All” to clear all schedule.



### 7.1.3 Alarm Linkage Recording

- ① Go to Home→ Device Setting interface. Select the desired device to enable and set schedules.
- ② Go to Home→Alarm Center→Alarm Linkage as shown below. Select alarm type, enable record, set linkage channel and set schedules.
- ③ Click [Apply] to save the settings.



## 7.2 Record Playback

In the main menu interface, click “Record Playback” to go to the record playback interface. Record files saved on the HDD/ SD card of the devices and storage server can be played.

There are two types of record playback: synchronous playback and asynchronous playback.



### Area Description














Area	Description	Area	Description
1	Playback area	4	Additional Controls
2	Toolbar	5	Time and event search area; resource area
3	Record timetable area		

### Toolbar on Playback Window (1):

Button	Description	Button	Description
	Stop viewing		Zoom in
	Audio on/off		Zoom out
	Snapshot		Fit to window

### Button Descriptions of Area 2 (2):




Button	Description
	Screen display mode button. 1/4/9/16 screen mode is optional.
	Full screen
	Enable or disable OSD
	Close all window viewing


	Get a record from network devices
	Get a record from storage servers
	Rewind
	Low-speed playback
	Stop
	Play/Pause
	Next frame. In the playback mode, click the pause button and then click this button to play frame by frame.
	Click it to select playback speed.
	Forward 30s or backward 30s
	Backup start time
	Backup end time
	Start backup
	Synchronous playback or asynchronous playback

Right-click button menu (5)

Menu	Description	Menu	Description
<b>Close</b>	Close viewing	<b>Zoom out</b>	Zoom out the current image
<b>Audio On/Off</b>	Audio on/off	<b>Full Screen</b>	Click to enter full-screen mode
<b>Snapshot</b>	Snapshot	<b>Substream</b>	Switch to sub stream playing
<b>Zoom In</b>	Zoom in the current image		

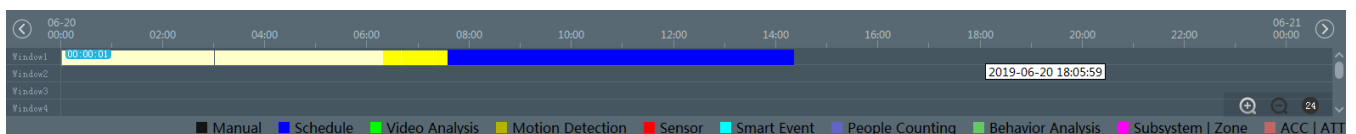
Other buttons




Button	Description	Button	Description
	Add tag		Event list
	Backup		

Set record date, record type (for some devices, “Main Stream” can be selected to play the record, or the record will be played by sub-stream if unselected) and the record playback source in the playback interface. Drag the camera on the right side to playback window for playing or double click the desired channel to play or click [Search] to search the record files and then click  to play.

Playback record type includes manual recording, motion detection recording, schedule recording, sensor recording, object removal recording, video exception recording, intrusion recording, and line crossing recording and so on.

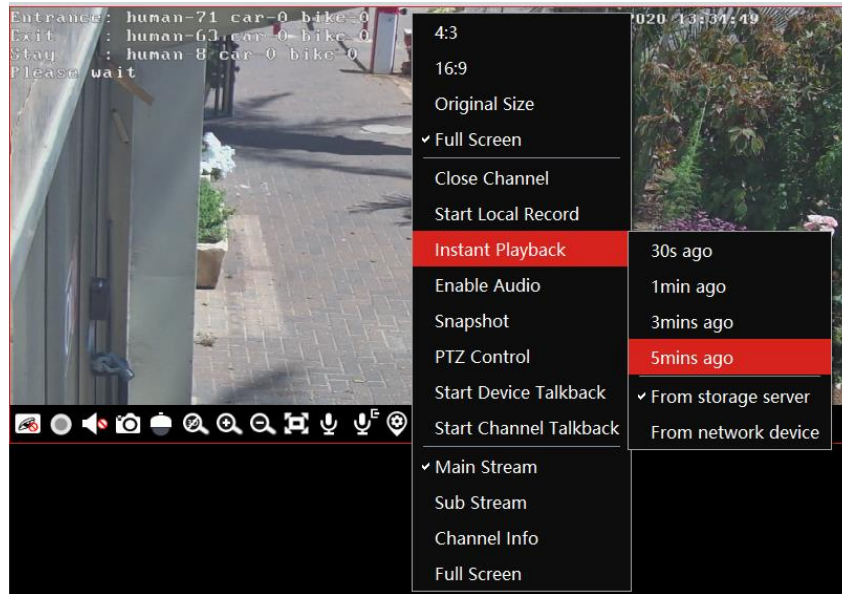
In the timetable, different color bars stand for different record types. For instance, a yellow bar stands for motion recording data; blue bar stands for schedule recording data; red bar stands for sensor record data, etc.



The time scale can be zoomed in by clicking  and the time scale can be zoomed out by clicking . The time scale can be restored to 24 hours by clicking . When the time scale is zoomed in, drag the timeline to see the time spots.


### 7.2.1 Instant Playback

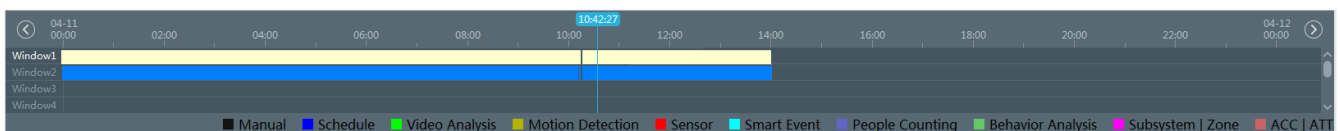
In the live view interface, right click on a playing channel to select “Instant Playback” and then set the playback time to play the record instantly. Make sure to choose the location from which the playback should be streamed (Storage Server / Network Device)





### 7.2.2 Synchronous Playback

**Synchronous Playback:** in a certain time, all channels playback its record at the same time together; if one channel has no record data at this time, this channel will wait.


Click  on the toolbar in the playback interface to go to the synchronous playback interface. Please play the record according to the ways introduced as above. The record bar in synchronous mode is as below.

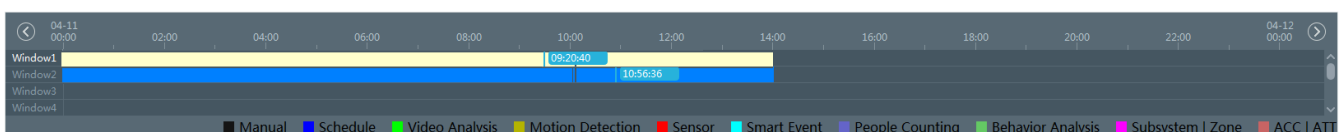


In synchronous mode, one camera can only have one playing window. All cameras’ record information can be viewed at the same time. When playing record files in synchronous mode or asynchronous mode, clicking  or  will be useless unless all the playback windows are closed.

### 7.2.3 Asynchronous Playback

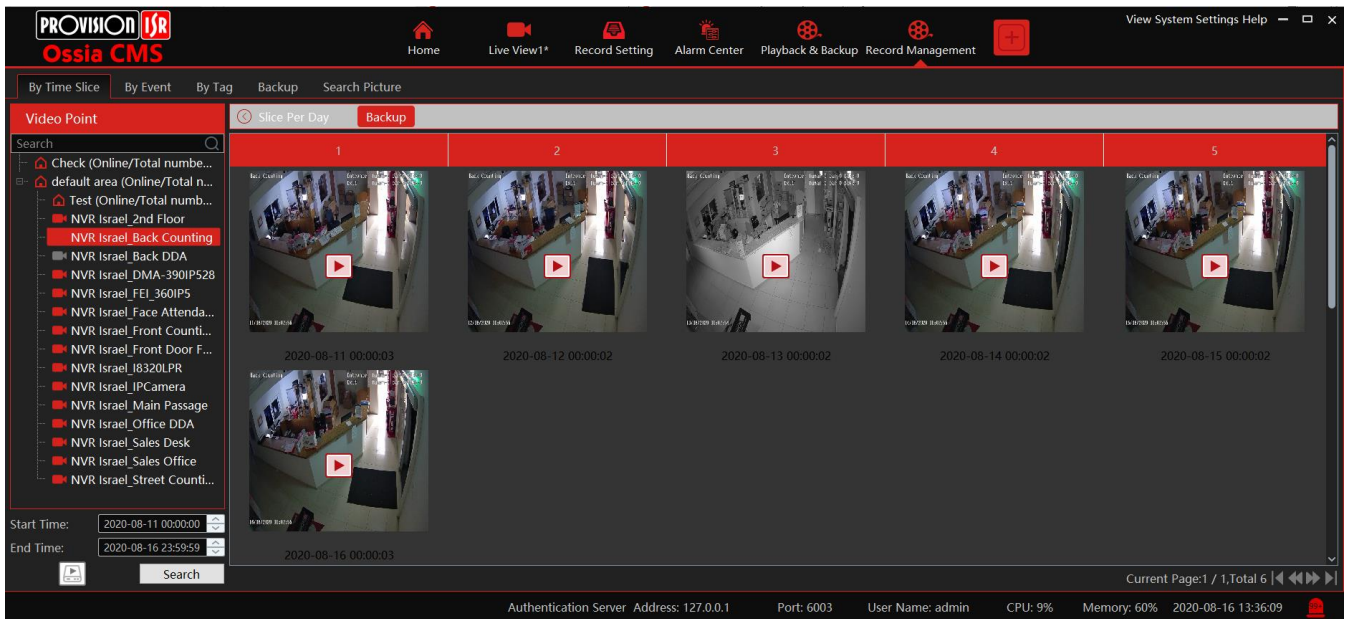
**Asynchronous Playback:** when playing some channels’ record at the same time, each channel is independent of the others and each channel’s playback time is different.



Click  to go to the asynchronous playback interface as shown below. Please play the record according to the ways introduced as the above. The record bar in asynchronous mode is as below.





## 7.2.4 Playback by Time Slice


- 1 Go to Home→By Time Slice interface.
- 2 Select channel (or monitoring point), set the start time and the end time, select the record source and then click [Search].



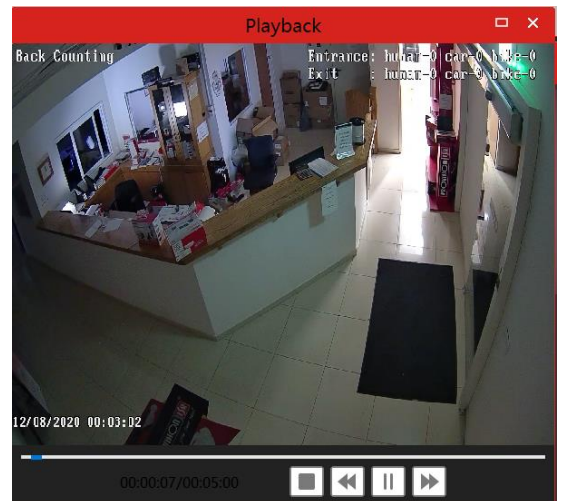
- 3 Click  to play the record.
- 4 Click  button on the top right corner to play in full-screen mode.

Double click the image to switch to slice search mode by day. In the above interface, click  to switch to slice search mode by the hour.

Double click an image to switch to slice search mode by 5 minutes. Click  to return to slice search mode by day;

In the above interface, click  to return to slice search mode by the hour.

**Backup:** In the Search by Time Slice interface, select a time slice and then click “Backup” to back up the record file during this period quickly.



## 7.2.5 Playback by Event


- 1 Go to Home→ By Event interface.
- 2 Select the desired monitoring point, set the record source, the start time and the end time and then check events.



- 3 Click [Search]. The searched record data will be listed. Click  to play the record; click  to back up the record data.








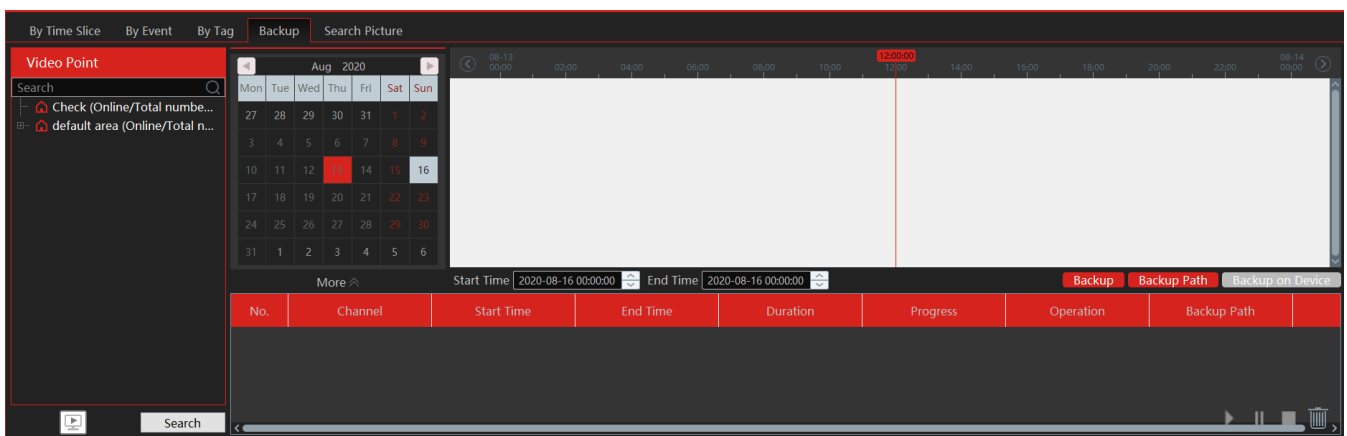
## 7.2.6 Playback by Tag

- ① Go to Home→Record Playback interface.
- ② Select a channel and put the cursor on the right-center. Then a tag icon (★) will appear. Click this icon to add a tag.
- ③ Go to Home→By Tag interface. Select the start time and click [Refresh] to search the added tags.
- ④ Click  in the playback column to play the record.

## 7.3 Backup

In the main menu interface, click “Backup” to go to the backup interface. The setting steps are as follows:

- ① Select the desired monitoring point.
- ② Select date and click “More” to select the start and the end time and event type.
- ③ Click  /  to get records from the device or storage server.
- ④ Set the start time and the end time of backup. Then click [Backup].
- ⑤ The backup progress will be seen during backing up the record. Click  to pause; click  to stop backing up the record; click  to clear the backup list.



## 7.4 Search Picture

In this interface, pictures stored on the SD card or storage server can be searched and viewed.

- ① Select the device.
- ② Set the start time and the end time.
- ③ Choose events.
- ④ Select search from network device or storage server.
- ⑤ Click [Search]

## 8 Alarm Management

### 8.1 Alarm Configuration

#### 8.1.1 View Alarm Server Status

The alarm server is in charge of receiving and recording alarm information of connected devices and then sending the alarm information to the relevant user terminal system or devices in accordance with prior alarm settings. There is a default alarm server.

Go to Home→Add, Edit or Delete Device →Alarm Server interface to view the online status of the alarm server. If it is not online, please check its network connection.

Add, Edit or Delete Device						
Device Type	Server Name	IP Address	Port	Client Co...	Authentic...	Edit
Encoding Device (Online/Total number: 1/1)	Alarm Server	192.168.56.1	6033	Online	Online	
Decoder (Online/Total number:0/0)						
Analytics Server (Online/Total number: 1/1)						
Storage Server (Online/Total number: 1/1)						
Media Transfer Server (Online/Total number: 1/1)						
Alarm Server (Online/Total number: 1/1)						
TV Wall Server (Online/Total number: 1/1)						

Click to modify the added alarm server;

#### 8.1.2 Alarm Configuration

① Go to Home→ Device Setting interface.

Select the desired device to enable alarms (refer to the user manual of the corresponding device for the detailed settings).

② Go to Home→Alarm Center→Alarm Linkage interface.

Alarm Linkage											
Area	Alarm Type	Channel-Motion Detection	All On	All Off	Reset	Apply	Filter				
Name	Audio	PTZ Control	Record	Alarm View	Snapshot	Alarm Output	Voice Broa...	TV Wall	Schedule		
NVR Israel_2nd Floor	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	
NVR Israel_Back Counting	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	
NVR Israel_Back DDA	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	
NVR Israel_DMA-390IP528	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	

Select area, alarm type and then enable alarm linkages.

All ON: enable all alarm linkages of the current alarm type and area (schedule excluded).





All OFF: disable all alarm linkages of the current alarm type and area (schedule excluded).

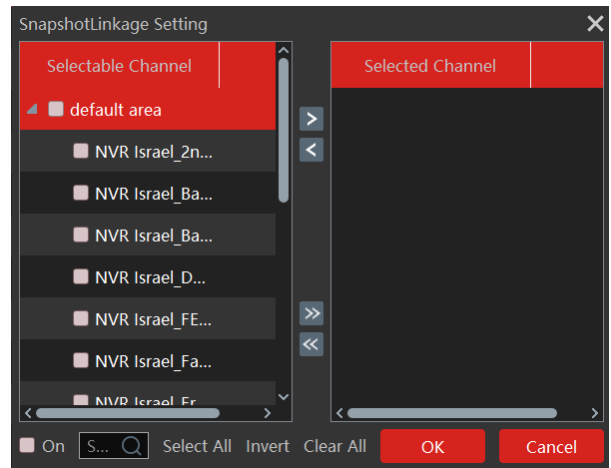
Select  beside the device name and select "ON" to enable all alarm linkages of the device (schedule excluded).

Name	Audio	PTZ Control	Record	Alarm View	Snapshot	Alarm Output	Voice Broa...	TV Wall	Schedule
NVR Israel_2nd Floor	Off	On	Off	Off	Off	Off	Off	Off	Off
NVR Israel_Back Counting	Off	Off	Off	Off	Off	Off	Off	Off	Off

Select  beside the title (like a record) to enable record linkage of all devices (schedule excluded).

The alarm linkage settings of PTZ control, record, alarm view, snapshot, alarm output, and TV Wall are the same as each other. Here take record linkage for example to introduce the setting steps.

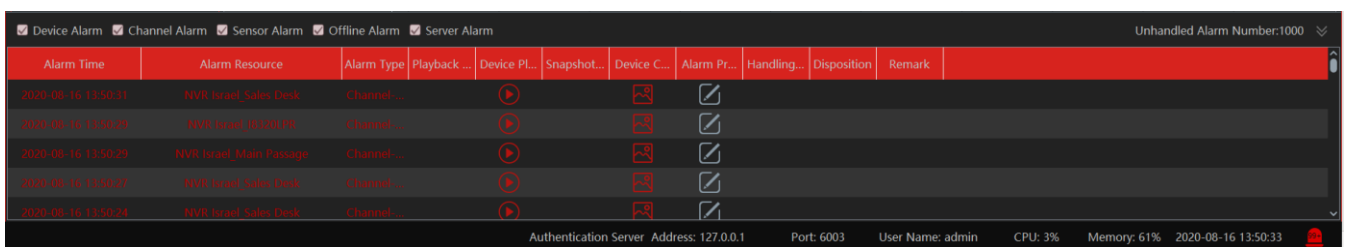
Check the selectable channel and click  to select the channel; check the selected channel and click  to remove this channel; click  to select all channels; click  to remove all selected channels. After the channels are selected, check “On” and then click “OK” to save the settings.







③ Set an alarm schedule. Select the schedule of the desired device. 7\*24 or 5\*24 is the default schedule. Other schedules need to be set in advance. Click the “Schedule Setting” tab to set (See Schedule Recording→To set schedule for details).

### 8.1.3 Alarm View

Having set the alarm preview linkage, the alarm view window will prompt when an alarm is triggered.





Click  on the bottom right corner to expand the alarm list as shown above. Hover the mouse over the top of the alarm list and then a bidirectional arrow will appear. Drag the alarm list up or down to zoom in or out the alarm list.

Click  or  to play the record or captured images; click  to delete alarm information.

### 8.1.4 Alarm Log

Alarm logs can be searched and exported by going to Home→Alarm Center→Alarm Log interface.

Click  to play the record; click  to open the snapshot search window as shown below.

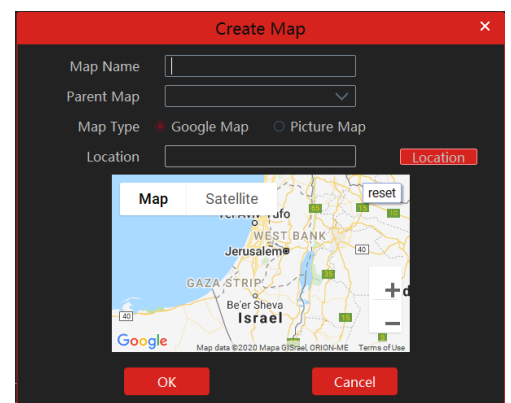
## 8.2 E-Map Settings

### 8.2.1 Create E-Map

Go to Home→E-Map interface. Click [Create Map] to create a map.

The map can be based on a static image file as a map or by a dynamic map based on Google Maps.

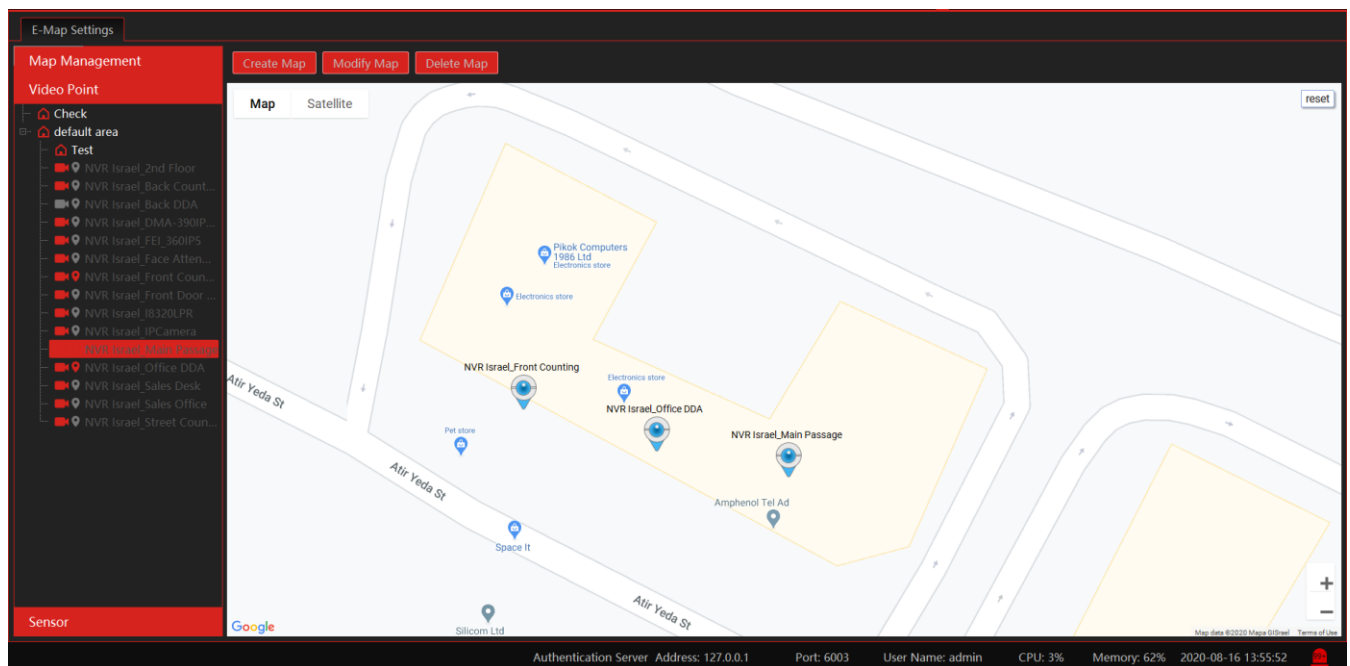
Maps also have hierarchy so you can create a tree of maps with different resolutions. Enter E-map name, select parent e-map and map type. Then click [OK] to save the settings.



## 8.2.2 Add Video Point and sensors

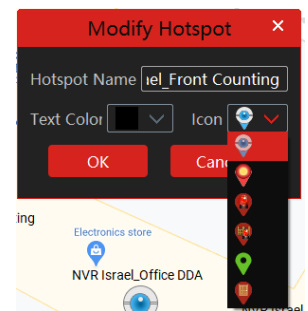
The maps can be populated with all the video points and sensors from the added systems.

Choose “Video Points” or “Sensors” and drag the relevant video/sensor to the right location on the map.



If you wish to edit the name / shape / color of the icon, right click on it and select edit. Here, change the name, text color or icon of the desired spot.

In order to delete an added spot, right click on the icon and choose “Delete”.

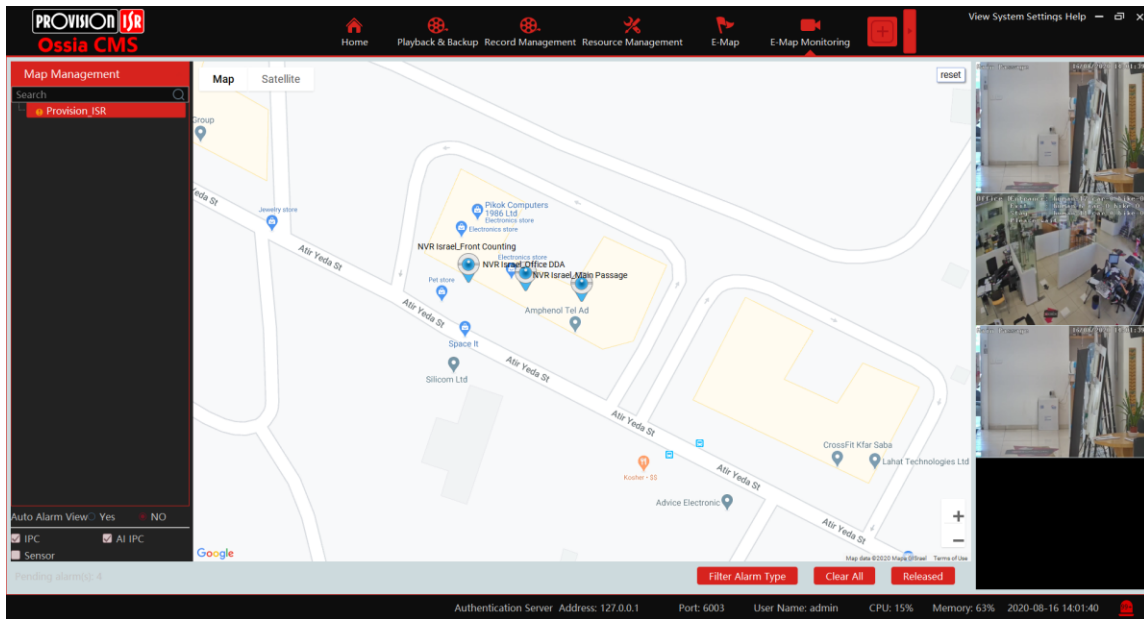


Click [Modify Map] to change the map name and parent map.

Select [Delete Map] to delete the added map.

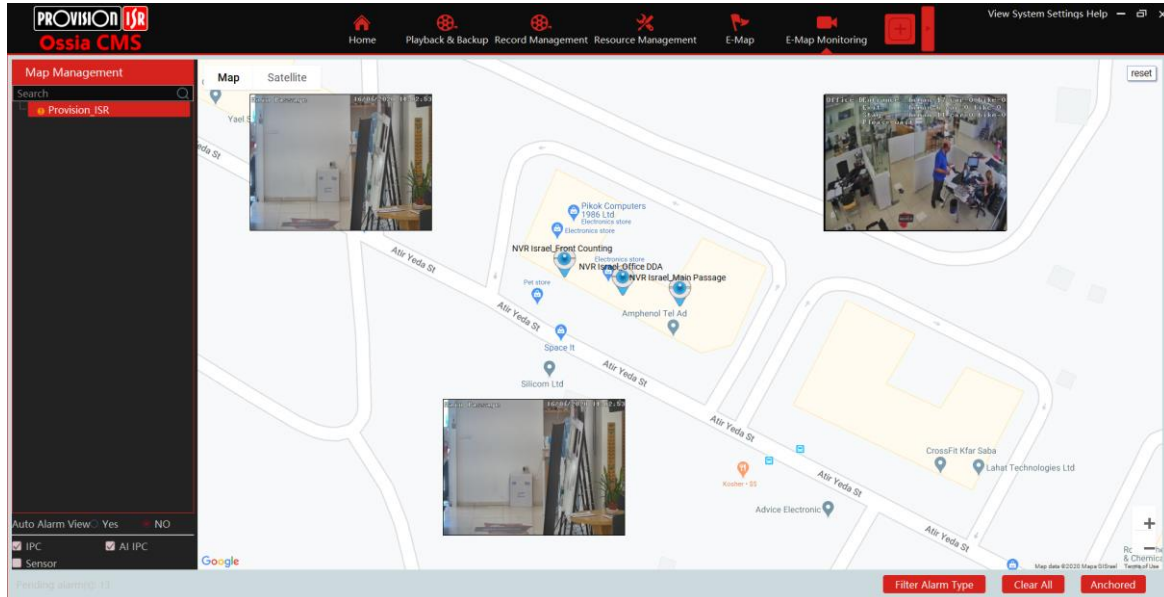
## 8.2.3 E-Map Monitoring

Go to Home→E-Map Monitoring interface. Select a window on the right and then double click the monitoring point to view the real-time image.



Alarm view: if you select “Yes”, the monitoring video will automatically pop up on the right window when an alarm is triggered. You can filter the type of events that will trigger an alarm by clicking on “Filter Alarm Type” and untick the unwanted alarm types.

If required, you can “release” the video channels anchored to the right by clicking on “Released”. Once released you can drag the video windows to any desired location:

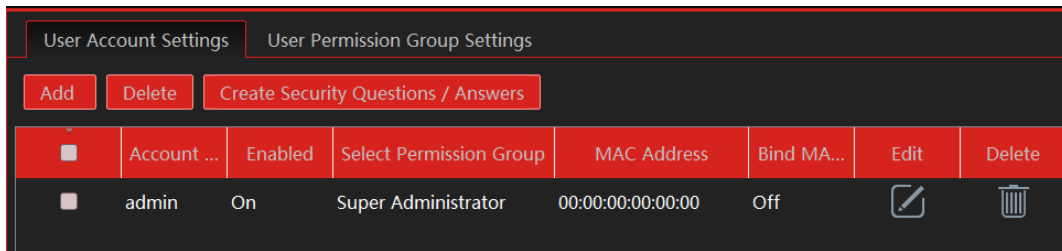


If you want to return to the different view, click on “Anchored”.

## 9 Account and Permission



### 9.1 Create Account

Go to Home→Account and Permission.



There is a default super admin user (the username is admin; the password is 123456). The super admin user cannot be deleted. Click [Add] to prompt an adding user window as shown below.



Enter the user name and password. Then select the permission group (it must be set in advance). Binding MAC address or remark can be filled in as needed. After that, click [OK] to save.

Click  to modify the added user; click  to delete the added user.

### 9.2 User Permission Settings

Go to Home→Account and Permission →User Permission Group Setting.

① Click [Add] to create a permission group.

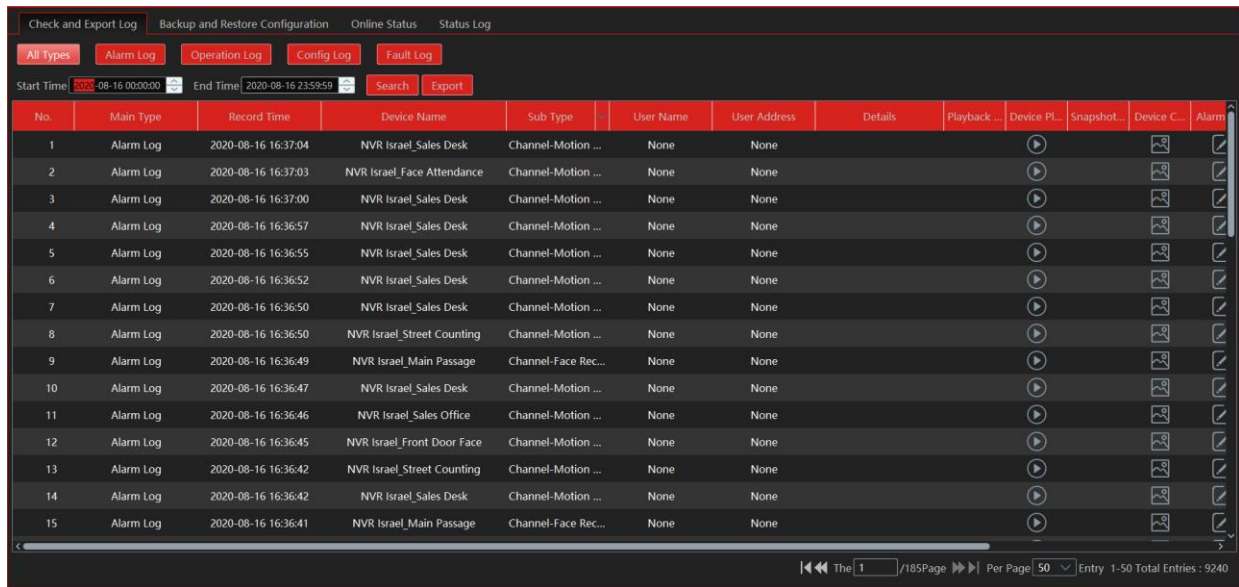
- ② Enter the permission group name.
  - ③ Select system permission, operation permission and area permission as needed.
- Click  to modify the permission group; click  to delete the permission group.

## 10 Operation and Maintenance Management

### 10.1 Check and Export Log

Go to Home → Operation and Maintenance Management.

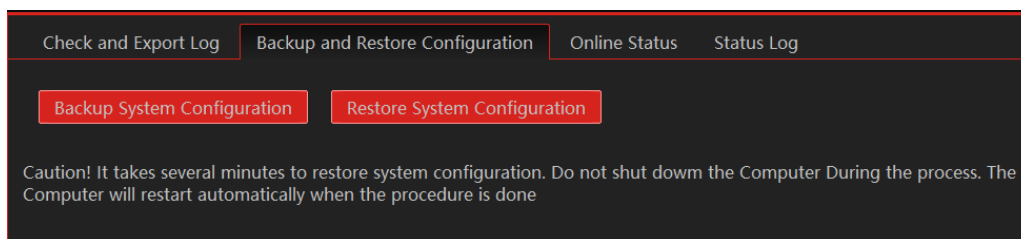
Click the “Check and Export Log” tab as shown below. All types of logs can be searched and exported here.



Select the log type, set the start time and the end time and then click [Query] to search logs. After the logs are searched, click [Export] to export these logs.

### 10.2 Backup and Restore Configuration

Go to Home → Operation and Maintenance Management. Click “Backup and Restore Configuration” to go to the following interface.

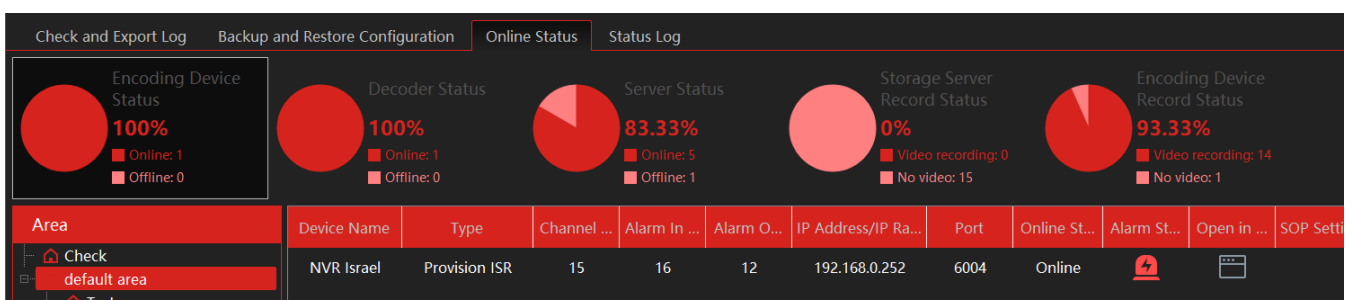


You can import the former system configuration files to the new version. Click [Backup System Configuration] in the last version to backup the system configuration files. Then click [Restore System Configuration] in the new version to restore the system configuration.

### 10.3 Viewing Online Status

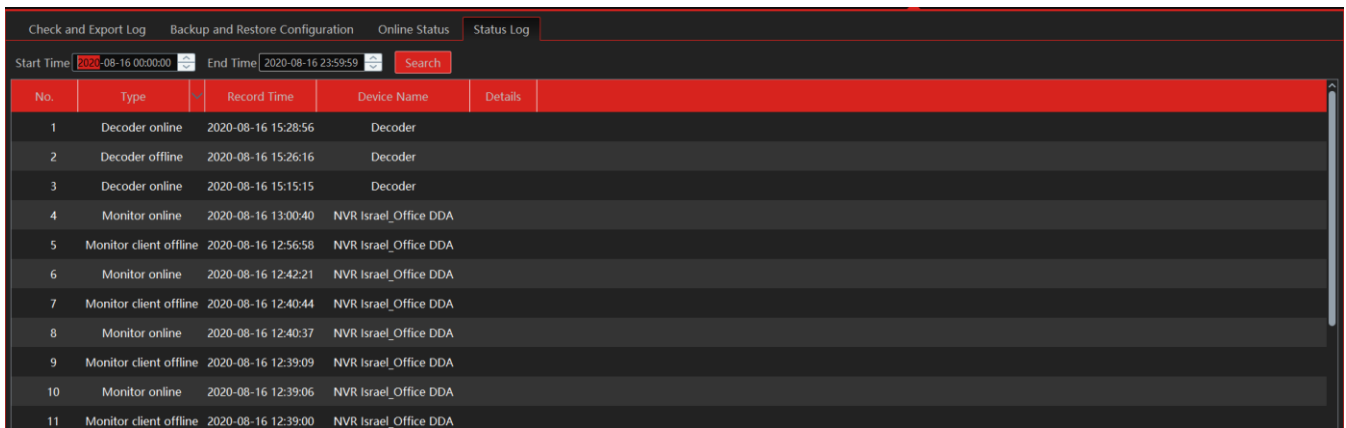
Go to Home → Operation and Maintenance Management → Online Status interface.

You can view the online status of encoding devices, decoders and storage servers and the record status of the storage server and encoding devices.



## 10.4 Viewing Status Log

Go to Home→Operation and Maintenance Management→ Status Log interface.



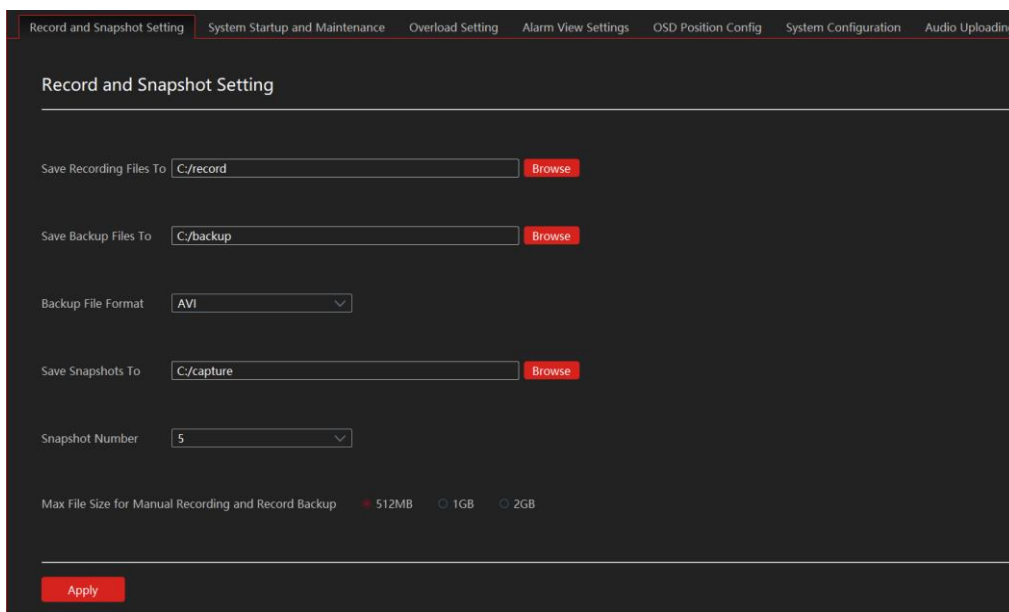
No.	Type	Record Time	Device Name	Details
1	Decoder online	2020-08-16 15:28:56	Decoder	
2	Decoder offline	2020-08-16 15:26:16	Decoder	
3	Decoder online	2020-08-16 15:15:15	Decoder	
4	Monitor online	2020-08-16 13:00:40	NVR Israel_Office DDA	
5	Monitor client offline	2020-08-16 12:56:58	NVR Israel_Office DDA	
6	Monitor online	2020-08-16 12:42:21	NVR Israel_Office DDA	
7	Monitor client offline	2020-08-16 12:40:44	NVR Israel_Office DDA	
8	Monitor online	2020-08-16 12:40:37	NVR Israel_Office DDA	
9	Monitor client offline	2020-08-16 12:39:09	NVR Israel_Office DDA	
10	Monitor online	2020-08-16 12:39:06	NVR Israel_Office DDA	
11	Monitor client offline	2020-08-16 12:39:00	NVR Israel_Office DDA	

In this interface, record status, online or offline status of servers and monitor clients can be viewed. Set the start time and the end time and then click [Search] to search status logs.

## 11 Local Configuration

### 11.1.1 Record and Snapshot Setting

Go to Home→Local Configuration.



Record and Snapshot Setting

Save Recording Files To:

Save Backup Files To:

Backup File Format:

Save Snapshots To:

Snapshot Number:

Max File Size for Manual Recording and Record Backup:  512MB  1GB  2GB

In this interface, the storage path of recording files, backup files and snapshots, backup file format, snapshot number, and max file size for manual recording and record backup can be set up here.



## 11.1.2 System Startup and Maintenance

Go to Home→Local Configuration→System Startup and Maintenance.

The screenshot shows the 'System Startup and Maintenance' configuration page. It includes several checkboxes for settings like 'Auto Startup', 'Auto Login', and 'Full DVR/NVR channels name display'. There are also radio buttons for 'Sort by name' and 'Sort by time', and 'Real-Time Priority' and 'Fluency Priority'. Below these are buttons for 'Backup client configuration' and 'Restore client configuration'. Further down, there are dropdown menus for 'Select Language' (set to English) and 'Time Display Format' (set to yyyy-MM-dd hh:mm:ss). There are also input fields for selecting alarm audio files, each with 'Browse' and 'Test' buttons. An 'Apply' button is at the bottom.

**Auto Startup:** if enabled, the system will automatically start when the computer starts.

**Auto Login:** if enabled, the system will automatically log in when running this software next time.

**Show message when device goes offline:** if enabled, the system will pop up a warning when there is device offline.

**Trigger audio when the a device is offline:** if enabled, the system will trigger an audio prompt when a device goes offline.

**Full DVR/NVR channel name display:** if enabled, the DVR/NVR's channel name listed in the resource tree will show the DVR/NVR name and the channel name. If disabled, only the channel name is shown.

**Resource tree automatically expands:** If enabled, the device trees will expand automatically.

**New live preview view default substream:** If enabled, the system will open all new windows in sub-stream.

**Backup/Restore client configuration:** Backup and restore the system configuration.

**Require password when exiting the program:** if enabled, you shall enter the password before exiting the program.

In this interface, you also can select the resource tree sorting rules, video configuration rules, language and upload the various alarm audio files. You can click [Synchronize platform time] to synchronize the time of all devices and the platform.

## 11.1.3 Overload Settings

This system supports CPU and memory overload protection. When the system overloads, the monitor client will restrict the new live view and playback operation and the overload tip will prompt. Go to Home→Local Configuration→Overload Setting. Select the overload upper limit and then click [Apply] to save the settings.

The screenshot shows the 'Resource Overload Related Attributes' configuration page. It features two dropdown menus for 'Overload Upper Limit', one set to 'CPU:85%' and the other to 'Memory:80%'. An 'Apply' button is located at the bottom.

## 11.1.4 Alarm View Settings

Go to Home→Local Configuration→Alarm View Setting.

In this interface, users can enable “Automatic Pop-up Alarm Page” or “Full-Screen Display when Popping up”, set “automatically /manually close alarm page” and select the number of screens (1/4/6/19 optional).

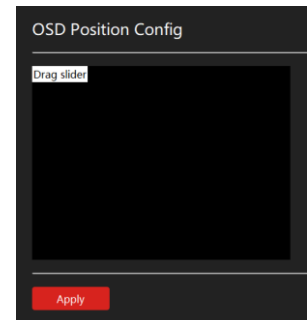
The screenshot shows the 'Alarm View Settings' configuration page. It includes checkboxes for 'Open Alarm Window Automatically' and 'Open in full screen display'. There are dropdown menus for 'Full Screen Display' (set to DISPLAY1), 'Close Alarm page' (set to Auto Close), 'Time' (set to 30Sec), and 'Number of Screens' (set to 4). An 'Apply' button is at the bottom.

### 11.1.5 OSD Position Config

Go to Home→Local Configuration→OSD Position Config.

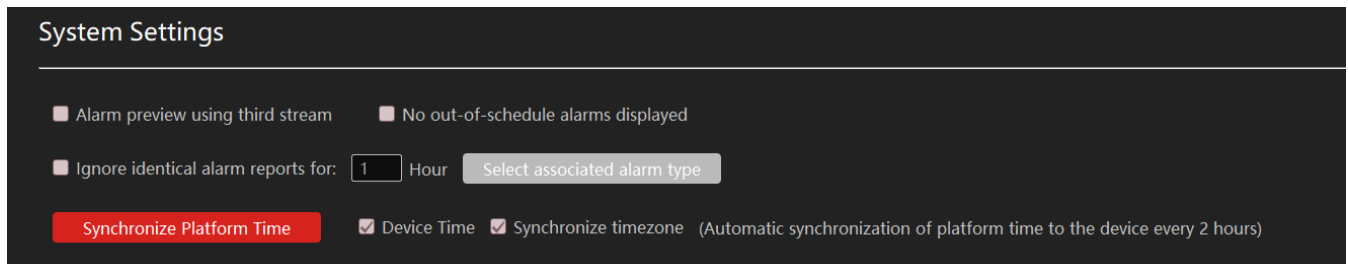
This setting allows you to change the position of the Ossia CMS OSD Layer.

Drag the sample OSD to the desired location on the screen and then apply. The OSD position is fixed for all channels.



### 11.1.6 System Configuration

Go to Home→Local Configuration→System Configuration.



From here you can set basic configuration parameters.

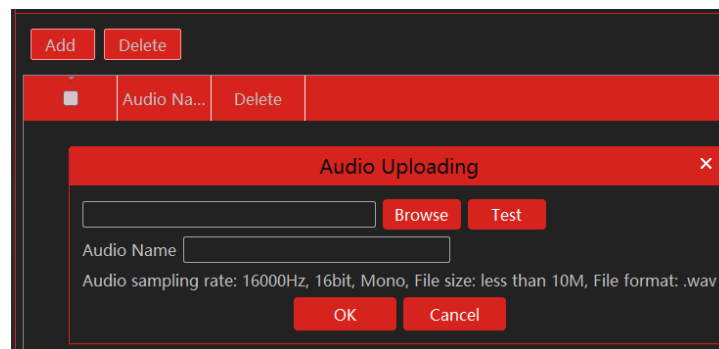
- 1) Alarm Preview using third stream: Alarm pop ups will use third stream to avoid system overload.
- 2) No out-of-schedule alarms displayed: If the alarm is not in the configured schedule duration, the CMS will ignore it.
- 3) Ignore identical alarm reports: Ignore repeating alarms for x hours
- 4) Synchronize Platform time: This option will synchronize all the devices connected to the CMS server with the server time. You can choose if to sync device time only or also the timezone.

**Please note:** Using this option when devices are connected to more than 1 server will cause a problem as times cannot be 100% synched. Therefore the server will constantly change the device time. If more than 1 server is connecting to the devices, only 1 server should control the time, while the other should be disabled.

### 11.1.7 Audio Uploading

Go to Home→Local Configuration→Audio Uploading.

Click [Add] to bring the following box.



Click [Browse] to choose the audio file and then enter the audio name. Click [OK] to save this audio. After the audio is uploaded successfully, you can listen to it.

## 12 Analytics Server Management

Before using analytics functions, please confirm the analytics server has been already created and it is online. (An analytics server will be created automatically on the server).

Go to Home→Resource Management→Analytics Server. There is a default intelligent analysis server. Please make sure the server is online.

Device Type	Server Name	IP Address	Port	Client Co...	Authentic...	Edit
Encoding Device (Online/Total number:1/1)	Analytics Server	192.168.0.36	6069	Online	Online	
Decoder (Online/Total number:1/1)						
Analytics Server (Online/Total number:1/1)						
Storage Server (Online/Total number:1/1)						
Media Transfer Server (Online/Total number:1/1)						
Alarm Server (Online/Total number:1/1)						
TV Wall Server (Online/Total number:1/1)						

The analytics server is responsible for all the tasks requires analytics and some analysis from the Ossia CMS server. For example: LPR, Face Recognition (Database Sync), Object Counting Etc.

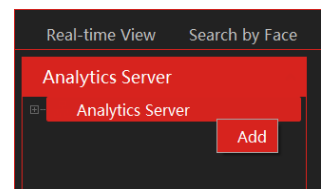
### 12.1 Face Surveillance

#### 12.1.1 Face Database Management

Create and edit the database by going to Home→Face Database .

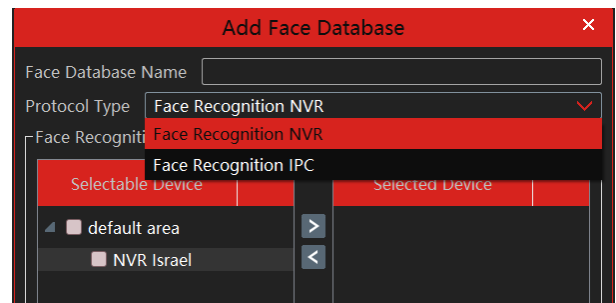
- **Create Database**

Right-click the analytics server to select “Add ” to add a database.



Set the database name and choose its type (Face Recognition NVR or Face Recognition Camera). The device list will refresh according to the selected device. (If the device list is empty, it means that no such device is configured on the server)

Please select the corresponding device and click to add the device. Then this library and its targets will be added to the face database of the added device, but the face database and its targets cannot be added to this library.

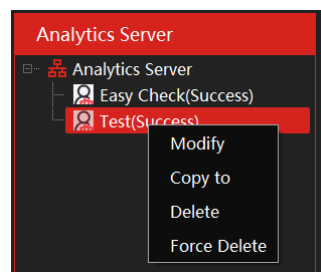


To edit / delete a database, right click on it to open the options menu.

Select “Modify” to modify the library name. Check “Sync NVR Database” if you want to add or delete devices. If adding a device, all targets in this database will be copied to new device. If deleting the added device, all items of this database will be cleared from the device.

Click “Copy to” to copy the current library (A) and its targets to another library (B) and create a library (B). If selecting to copy to face recognition NVR/IPC/access control terminal, the current library (A) and its targets will be added to the face database of the above-mentioned devices.

Click “Delete” to delete the current library.



Force Delete: This function is used to delete the library linking the face recognition NVR/IPC. When the FR NVR/IPC/access control terminal is offline or disconnected with the intelligent server, you shall select “Forcedly Delete” to delete the relevant library.

● **Add New Face from file**

Then double click the database and click [Add Face] to create a new entry.

Import from folder:

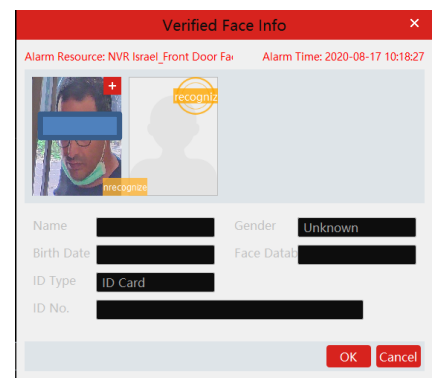
Search subfolder: After clicking [Import from Folder] and choosing “Search Subfolder”, choose a folder including multiple subfolders and then all pictures in the folder and its subfolders will be imported.

Search the current folder: After clicking [Import from Folder] and choosing “Search Subfolder”, choose a folder including multiple subfolders and then pictures in the folder will be imported, but pictures in the subfolders will not be imported.



● **Add New Face from live view**

While in “Real-Time View” – the face inputs from face detection IPC and NVRs will come on the right pane. You can choose any face input and add it to the database by clicking on the + button. By doing so, the CMS will automatically open the “Add Face” interface



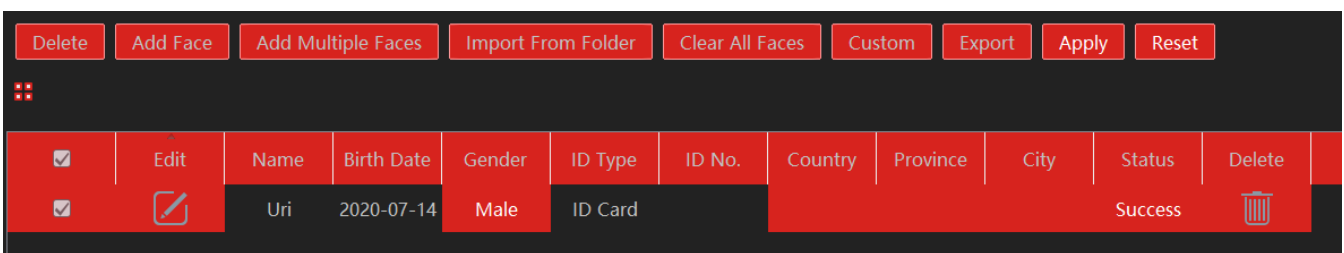
● **Modify or delete faces:**

Double click a library name to show its targets. Double click the area you want to modify and then modify it. Then a “\*” symbol will show in the front of the number. If you want to recover the configuration, click [Reset]. This symbol will disappear after clicking [Apply] to save the modification.

Note: if you have already applied your modification, you cannot reset the previous settings.

Select the target information and click [Delete] to delete this target. Click [Clear All Faces] to clear all targets in this library.

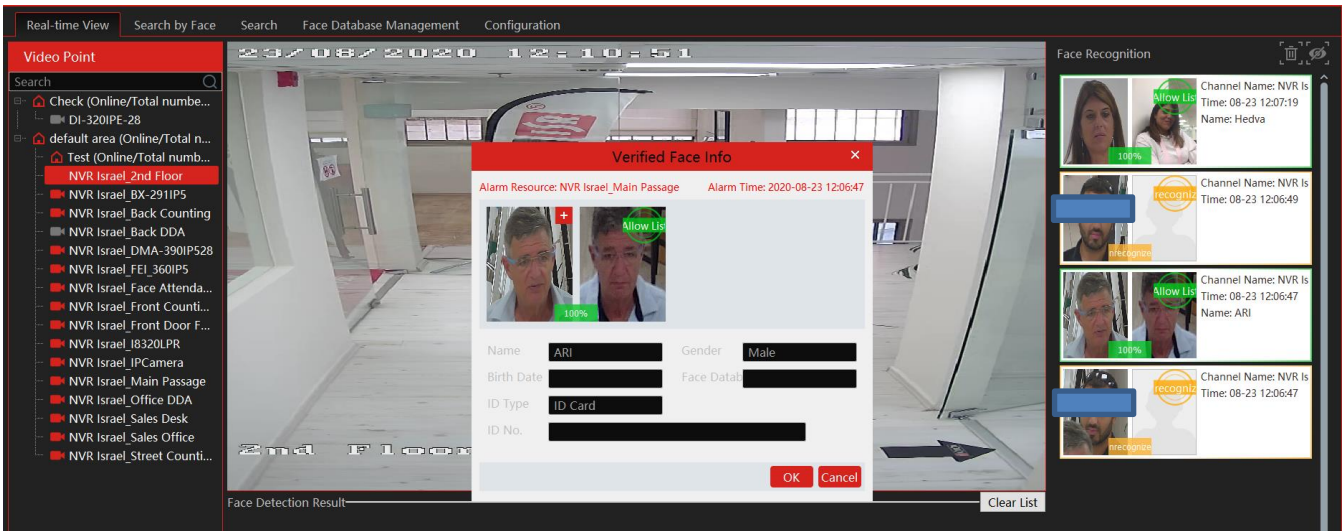
If there are too many targets listed, you can enter the keywords in the search bar to search the desired targets.



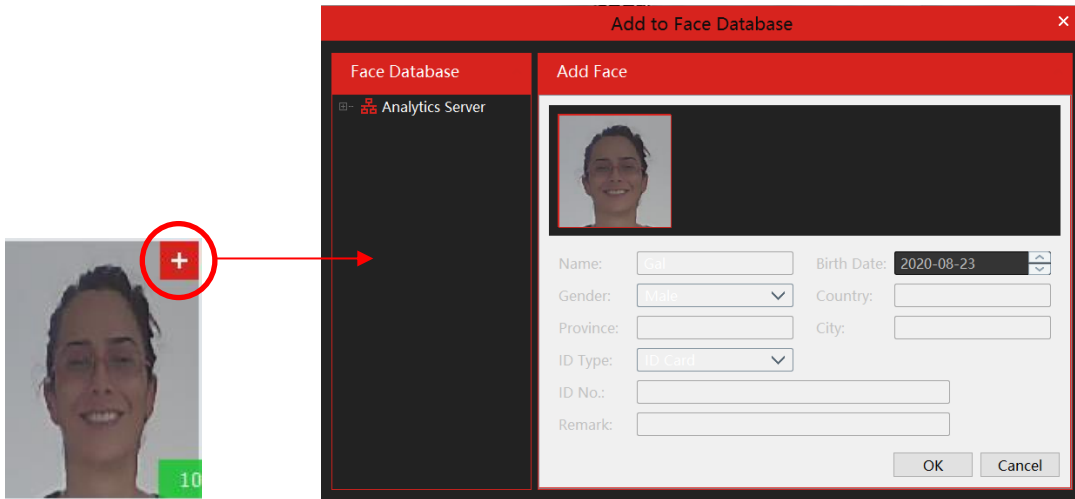
**12.1.2 Real-Time View**


If the IPC supports face detection, you will view the face capture picture.

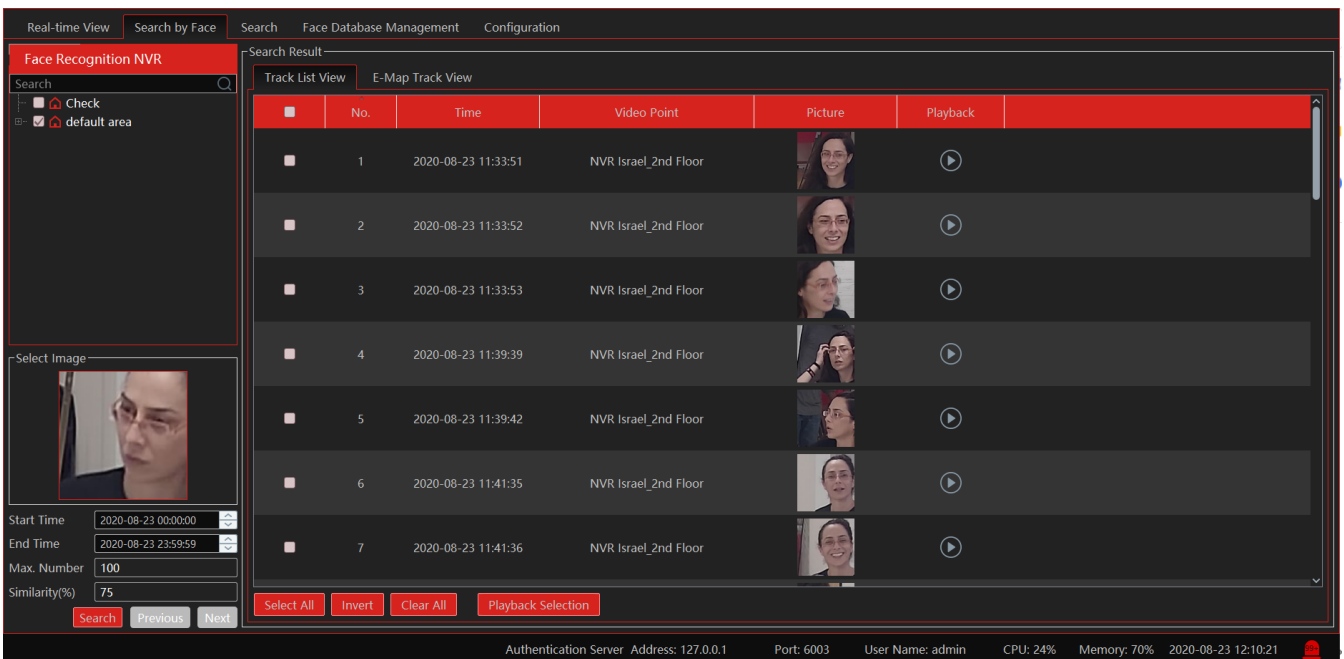
The screen display mode: 1/4/9/16 can be selected.




Put the cursor on the captured picture and then click + to add the captured picture to the library. Select the library on the left and then fill out the information on this target. Click [OK] to add.

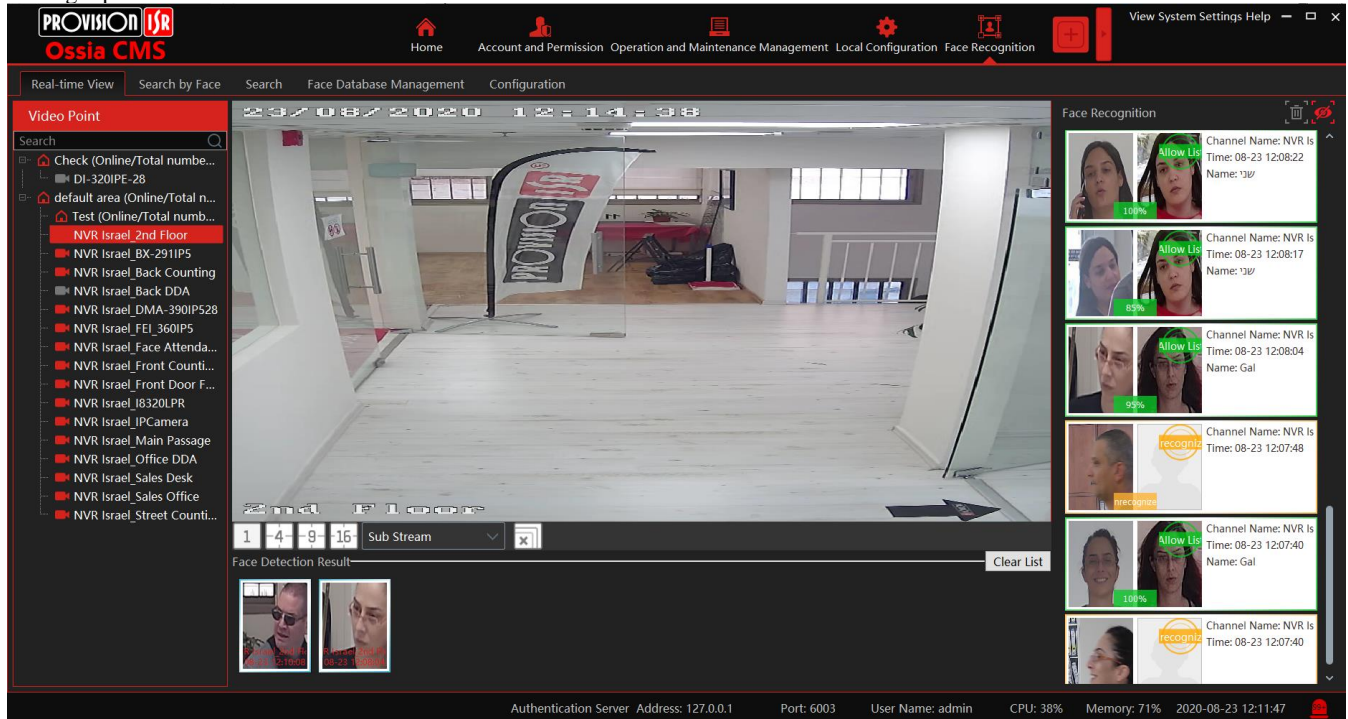


Put the cursor on the captured picture and then click  to quickly search images by this picture.

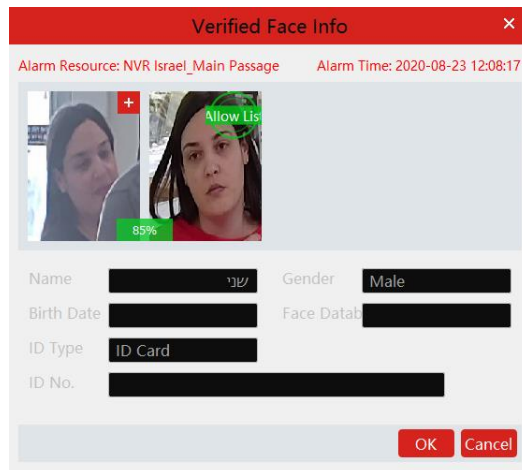


Put the cursor on the captured picture and then click  to quickly download the captured picture.

The right panel of the real-time view interface is a face match result area.



Double click it to view the matched details.

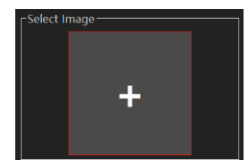


### 12.1.3 Search By Face

Click on the “+” icon to select a face image for searching. You can also use the “Real-time view” results as described above.

Select device / devices of which you wish to search for the face. More than one devices can be selected.

The results will appear automatically in the “Track List View” as seen below:



Search Result

Track List View E-Map Track View

No.	Time	Video Point	Picture	Playback
1	2020-08-23 11:33:51	NVR Israel_2nd Floor		
2	2020-08-23 11:33:52	NVR Israel_2nd Floor		
3	2020-08-23 11:33:53	NVR Israel_2nd Floor		
4	2020-08-23 11:39:39	NVR Israel_2nd Floor		
5	2020-08-23 11:39:42	NVR Israel_2nd Floor		
6	2020-08-23 11:41:35	NVR Israel_2nd Floor		
7	2020-08-23 11:41:36	NVR Israel_2nd Floor		

Select All Invert Clear All Playback Selection



Click on for instant playback in a pop up window.

Select several clips and click on “Playback Selection” to playback all of the selected clips in a pop up window.

If an E-Map is in use, you can switch to “E-Map Track View” and see the result on the E-Map.

### 12.1.4 Search

- ① Go to Face Recognition → Search interface.
- ② Select the source channel(More than 1 can be selected)
- ③ Select the captured match pictures from the intelligent server or face recognition NVR.
- ④ Put the cursor on the captured picture and then click to quickly search images by this picture. (You will be automatically redirected to the “Search by Face” interface)

Put the cursor on the captured picture and then click to quickly download the captured picture.

Real-time View Search by Face Search Face Database Management Configuration

Search Snapshot Search Alarm

Video Point

Search

Channe 2nd Floor / BX-291IP5 / Back Counting / Back DDA / DMA-390IP528 / FEI\_360IP5 / Face Attendance / Front Counting Time Pe 2020-08-23 00:00:00 ~ 2020-08-23 23:59:59

Check (Online/Total nu...  
 default area (Online/Tot...  
 Test (Online/Total nu...  
 NVR Israel\_2nd Floor  
 NVR Israel\_BX-291IP5  
 NVR Israel\_Back Cou...  
 NVR Israel\_Back DDA  
 NVR Israel\_DMA-390I...  
 NVR Israel\_FEI\_360IP5  
 NVR Israel\_Face Atte...  
 NVR Israel\_Front Cou...  
 NVR Israel\_Front Doo...  
 NVR Israel\_I8320LPR  
 NVR Israel\_IPCamera  
 NVR Israel\_Main Pass...  
 NVR Israel\_Office DDA  
 NVR Israel\_Sales Desk  
 NVR Israel\_Sales Office  
 NVR Israel\_Street Co...

Face Recognition NVR

Start Time 2020-08-23 00:00:00

End Time 2020-08-23 23:59:59

Search Export

Total 1858 entries Per Page40Entry << < 1/47 > >> OK

## 12.1.5 Face Database Management



From this interface you can manage the remote databases of the NVRs. Please refer to chapter 13.1.1 for further details.



## 12.1.6 Configuration

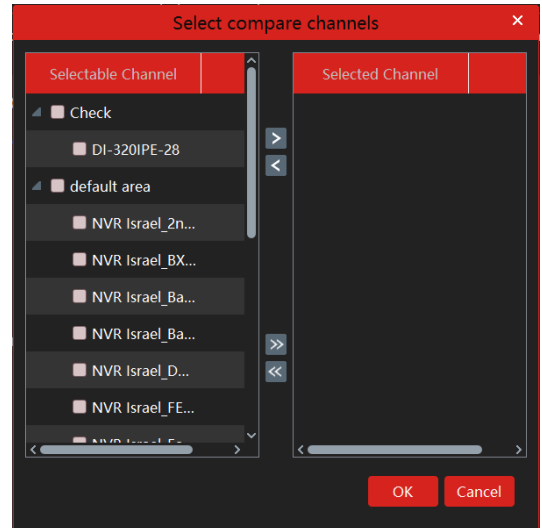
### 12.1.6.1 Task (No configuration available)

### 12.1.6.2 Link camera to Sub-screen

From here you can assign a camera to a face attendance and face greeting task. Double click on the relevant take to open the following window:

Assign specific cameras by selecting it and clicking on . Assign all cameras by selecting 

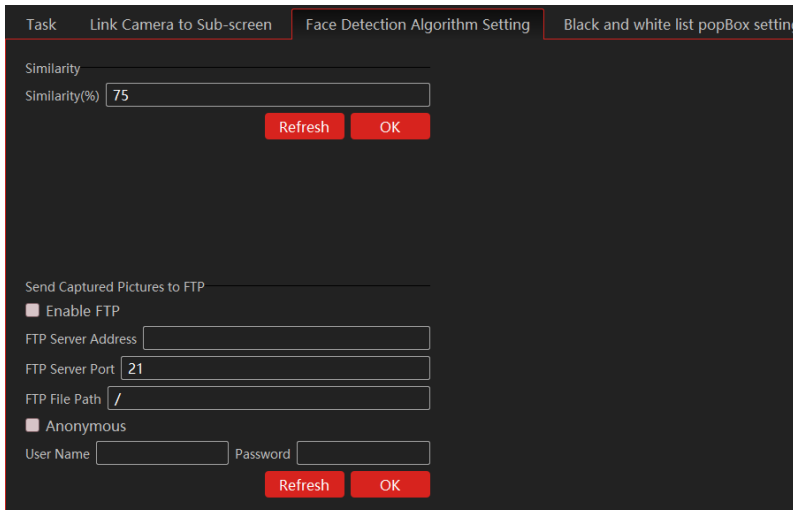
Unassign specific cameras by selecting it and clicking on . Unassign all cameras by selecting 



### 12.1.6.3 Face Detection Algorithm Setting

Set the similarity and FTP as needed.

If FTP is configured, the captured face pictures will be automatically uploaded to FTP server





## **12.2 People Counting (Not functional until v2.1.2)**

### **12.2.1 Task Management**

Go to Home→People Counting→Task Management. Double click the camera with the people counting function and then select the intelligent server. After that, click [OK] to create this instant task.

### **12.2.2 Real-time Statistics**

Go to Home→People Counting→Real-time Statistics. Double click the camera with the people counting function to view the live image. The camera will automatically count the entering and leaving people and the system will automatically analyze the day and month passenger flow trends.

### **12.2.3 Summary Statistics**

Go to Home→People Counting→Summary Statistics.

Before setting summary statistics, please set E-Map by going to Home→E-Map→ E-Map Setting first. Drag the camera with the people counting function to the specified area.

Then return to the summary statistics interface. The results of the summary statistics of the specified multi-channel can be viewed.

### **12.2.4 Historical Statistics**

Go to Home→People Counting→Summary Statistics. In this interface, the statistic results in a long period of time can be searched which can be shown in a histogram or curve chart.