User Manual of VMS

Version 1.1

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1. Introduction

Thank you for using our VMS, if you have any problems or doubts when using the products and software, please contact us anytime.

About this user manual

This User Manual is for VMS software, it is used as a guide. The photos, graphics, charts and illustrations provided in this user manual are only used to explain and illustrate the purpose, they may be different from the specific product, please refer to the actual object.

In this User Manual it is possible that we have some incorrect, or some features and operations that are not compatible with the App, or other printing mistakes. We will update the content of this User Manual according to the features upgrading or verifying, and we will improve and upgrade the description of the products. The new content may not be notified in this User Manual.

Software environment

Operating System: Windows 7 /Windows 8 /Windows 8.1 /Windows Server 2012 /Windows Server 2008 R2 /Win10 (32,64-bit operating system)

CPU:Intel Pentium IV 3.0 GHz or above

RAM:1G or above

Display: 1024*768 resolution or above

GPU:256M or above

Note: Preview more channel or higher resolution videos at the same time requires higher requirement.

Software Performance

1. Software maximum support add 1024 devices.
2. Software maximum support 128 channels preview at same time.
3. Software maximum support 9 channels playback at same time, 4 channels synchronous playback.

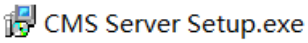
2 Install and Uninstall

VMS server system including the VMS server, Recorder Server and the Event Server.

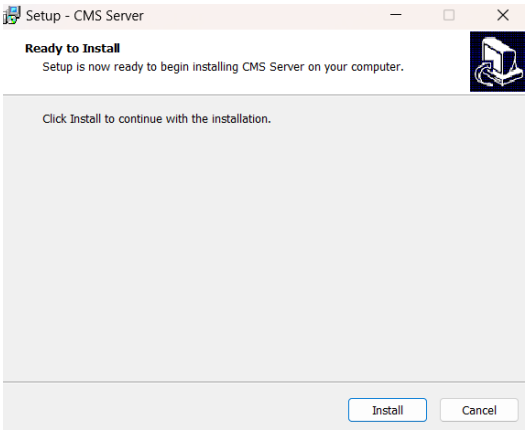
2.1 Install

Perform this task to install the VMS.

Steps

1. Double click the CMS 

,follow the guide to install the software .
2. After installed , you will see the 4 icons:CMS Client, Recorder Server, CMS Server, Event server.

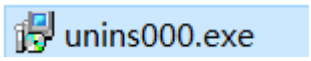


2.2 Uninstall

Perform this task to Uninstall the CMS.

Steps

1. Right click the CMS Client Icon, Open the path of the file.
2. Find the **unins000.exe** in CMS folder, double click it,and follow the guide to uninstall it.



3 Login

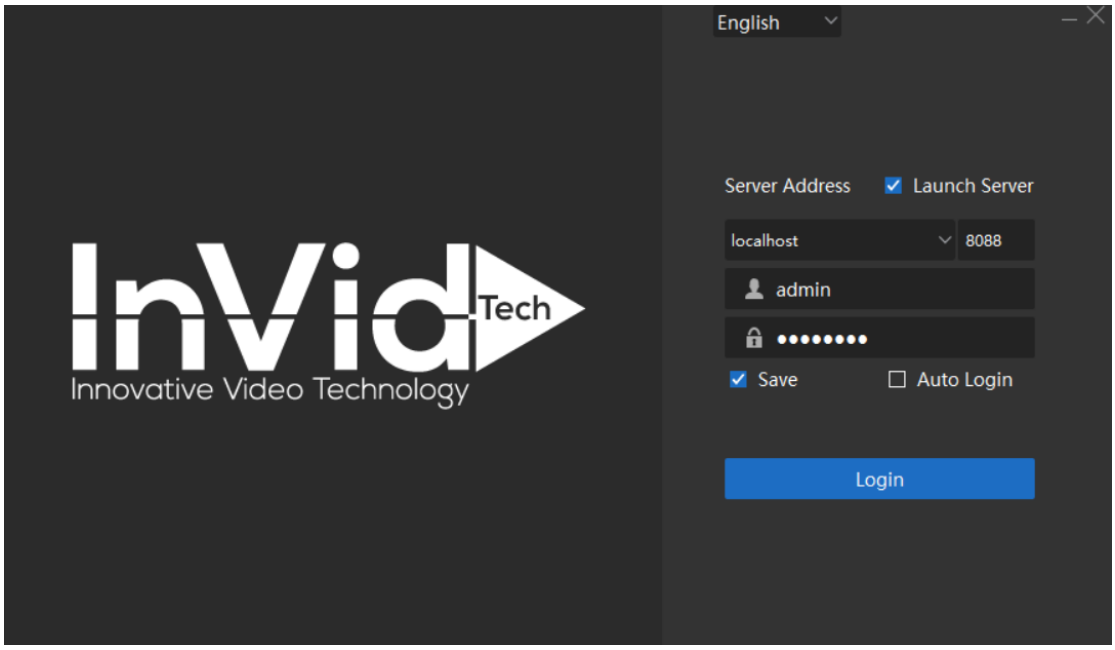
Need login the VMS to operation the software.

Perform this task to login the VMS.

Steps

1. Double click

icon in the PC desktop.
2. Input the user name and password then
3. Click **Login** directly.



User name: Default name is “admin”.

Password: Default password is “admin”.

For security, suggest modify the Password after the first Login. Modify Password, please refer to

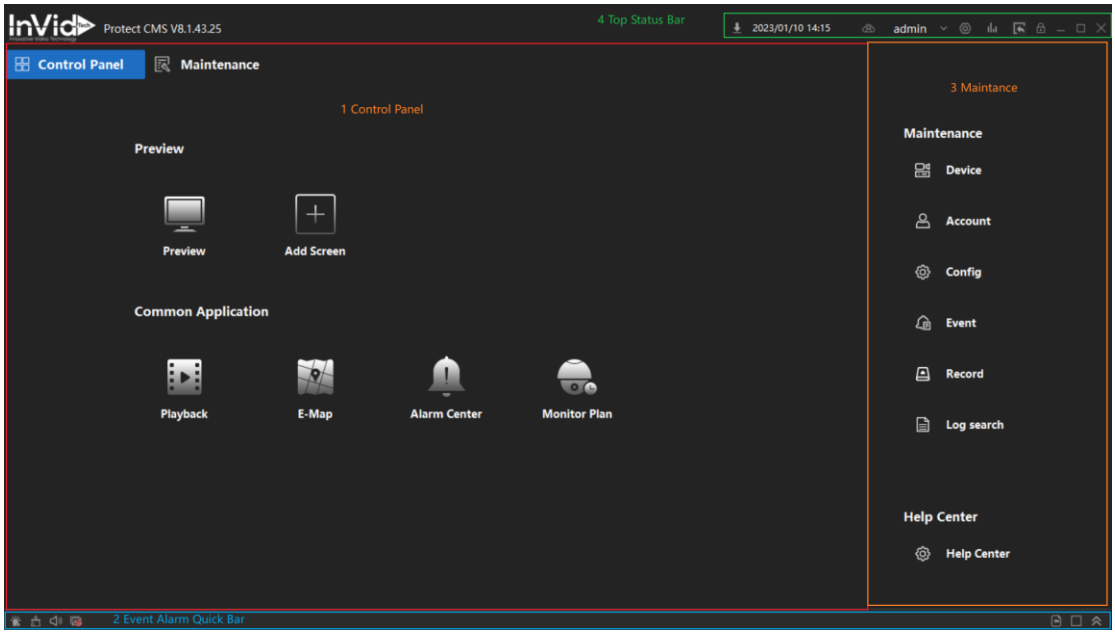
Save: Save username and password. It is checked by default.

Auto Login: Automatically login next time.

Language: Support English,,Español.

4 Operation Interface Introduce

After login, you will access the following control panel interface.
All the functions can be found in this page, after login the VMS.



It could be divided into 4 parts as the picture shows:

1. **Control Panel**-Including the Preview(Live video),Playback,E-Map,Alarm Center,Monitor Plan;
2. **Event Alarm Quick Bar**-It will show the notification when device alarm happens;
3. **Maintenance**-Support to control the Device, Event Alarm, Record, VMS system configure;
4. **Top Status Bar**-It will show the Downloading list,System time,Cloud Account,and other quick setting icons.

1. Control Panel

Preview: User can choose the added device and check the Live view. Set the Screen divisions, PTZ controlling, Remote Config setting, Stream type setting, Local record/ snapshot in Preview page. For details, please refer to 5.1 Play Live Video

Add Screen: Support to add another Live video screen page display on other Screens. For details, please refer to 5.2 Add Screen

Playback: Support to Playback and download the records from Device or Record Server. For details, please refer to 6.Playback

E-Map: Support to add an Image as Map, and place the device on the Map. Easy to control and monitor the device. For details, please refer to

Alarm Center: Support to check the device alarm event type, snapshot and etc.
For details, please refer to 7.2 Alarm Center

Monitor Plan: Support to set the different Views/Channels and set schedules to play the live video on screen. Details Reference from

2. Event Quick Bar

Support to show the Alarm notification on the Event Quick Bar.

For details, please refer to 7.2.1 Event Alarm Quick Bar

3. **Maintenance**

Device: Support to check the device list, add device and edit the devices. For details, please refer to

Account: Support to modify the account password, create account and etc…For details, please refer to 8. Account

Config: Support to set the VMS system configuration: Set the download Recorder/Picture file save folder/path and etc…For details, please refer to 9.System Configuration

Event: Support to set the device Event Alarm notification and other actions on VMS. For details, please refer to 7.1 Device Event Alarm Configure

Record: Support to set the Device/Storage Server recording Plan . For details, please refer to Record Plan Configure

Log search: Support to search and backup the VMS log. For details, please refer to 9.2 Log Search

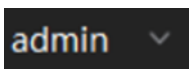
Help Center: For details, please refer to 9.3 Help Center

4. **Top Status Bar**

Downloading list: when downloading the video, click the icon to check the downloading list.

System Time

Cloud Account: User can login the Cloud account (Register from Cloud web, APP),get and add the device from Cloud Account. Details reference **4.1-Add Device by Cloud Account**

 **User status:**Support to check the current user information, Modify password,Switch user,Cancel Automatic login

Settings： **>System**-It will go to the device list

>Tool-It will open the Video Play,it could play the video that downloaded from VMS.

>Help-It will go to the **Help Center**, For details, please refer to 9.3 Help Center.

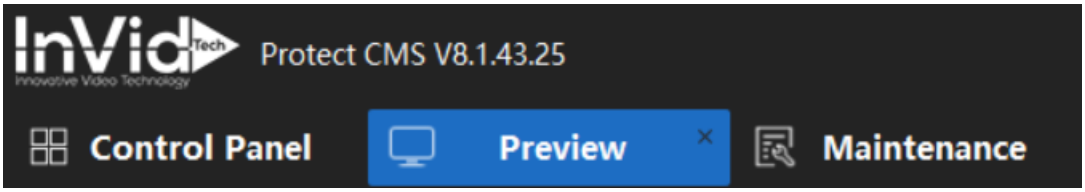
>About-It will show the VMS software version and release time.

PC Status:Move the cursor on the top of this icon, it will show the Computer

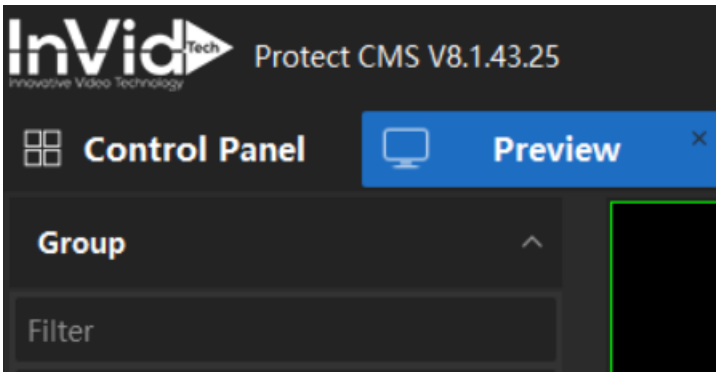
CPU/Memory/Network Status.

Back: Click the Back Icon, the float windows will back to main window.

-Preview interface as tab page in Main window.



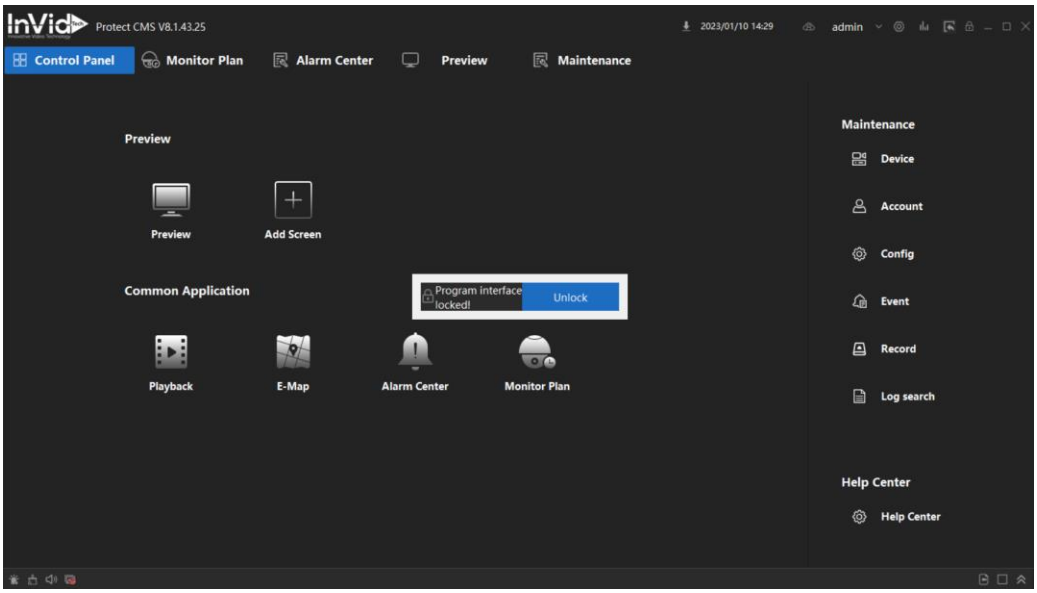
-Preview interface as a independent flot window



The tab page(Preview,Alarm Center..) support to be dragged as a independent window.

Click the back icon, the independent flot window will back to the main window as the tab page.

Lock:Click to lock the VMS, It will lock the interface,and couldn't be operated. Click the **Unlock** input the password to unlock the VMS.

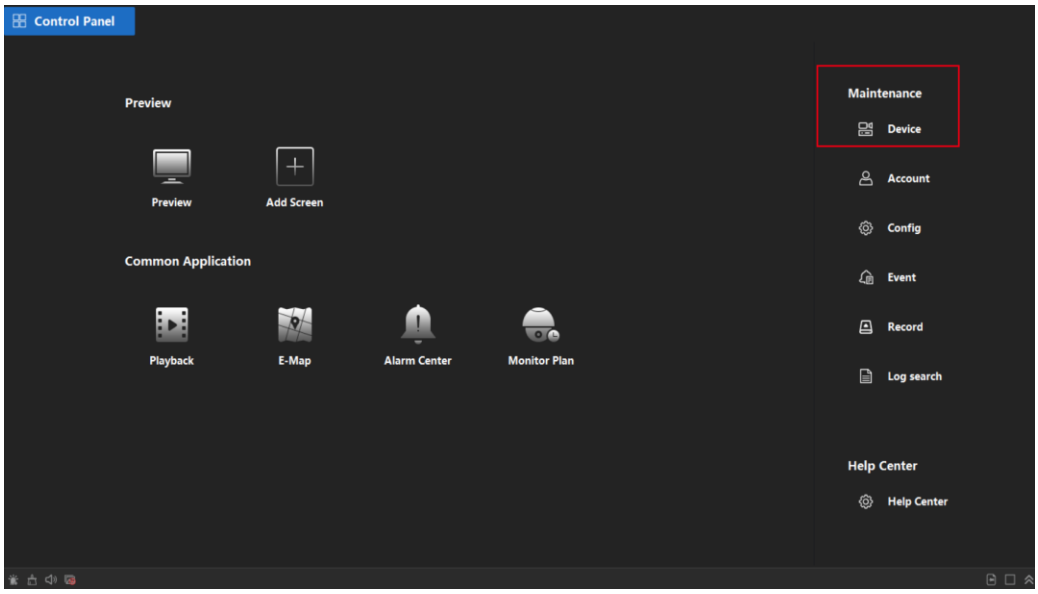


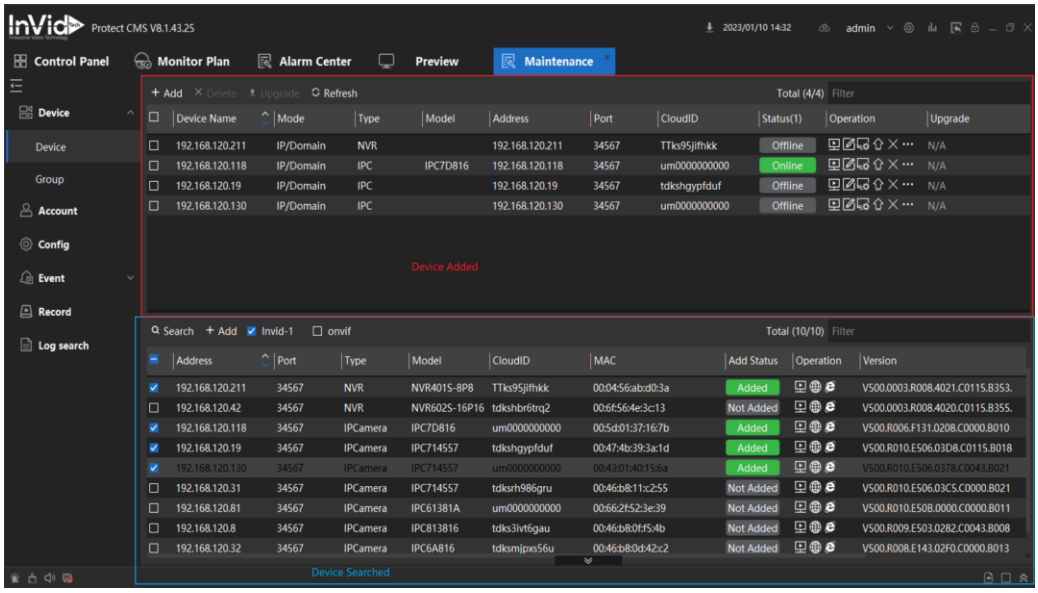
5 Device Management

5.1 Add Devices

VMS support to add the Local Private/Onvif Protocol IPC,NVR and DVR(Add by IP address). Also support to add the device which connect the P2P server(Add by Cloud ID/Account).

Click the **Device** on the right side





5.1.1 Auto-Search and Add Online Device

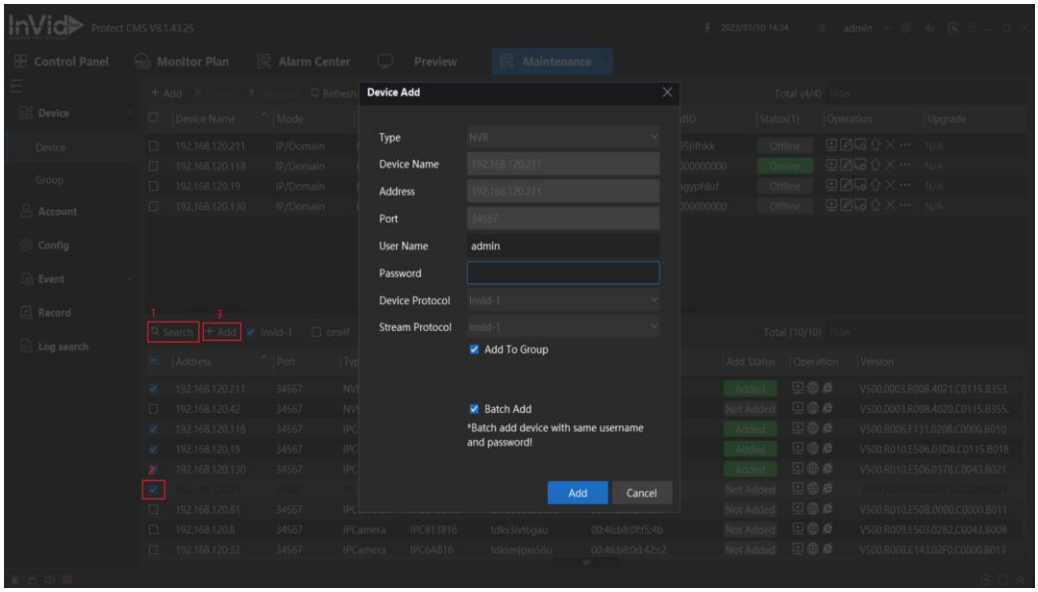
It suitable for adding devices in batches under Local Network.

Perform this task to add the LAN online devices

Steps

1. Go to **Maintain**-**Device** ,Choose the Protocol InVid, Onvif you want to search in LAN.
2. Click '**Search**' and it will show the devices that in the same LAN. And you can see the Device IP Address,MAC address,port,type,Model,CloudID,Add Status and firmware version.
3. Select the devices you want to add.
4. Click **Add** .
5. Input the device **user name** and **password** , Select enable **Add to Group** (Create new Group for device) or disable **Add to Group**(Device will be added to Default Group)on the pop up page, click Add.

After added, you will see the device in the Device Added list and shows online. Means Adding device success.



5.1.2 Manually Add device

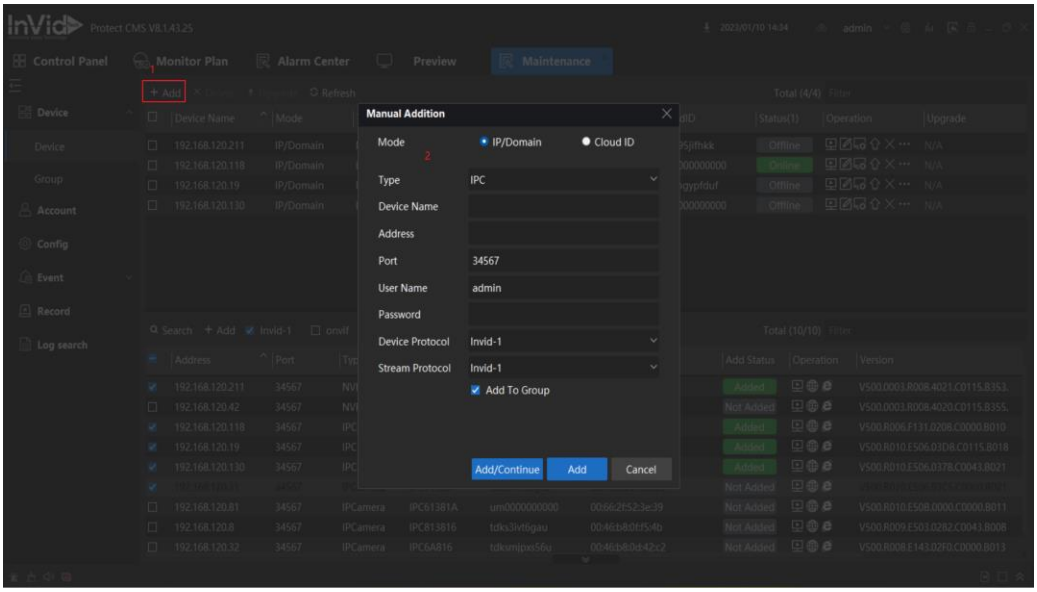
It suitable for adding devices when you know the Device IP address

Perform this task to add device manually.

Steps

1. Click ＋ 'Add' choose **IP/Domain** Model.
2. Input the **Type**(IPC/NVR/DVR),Set the **Device name** ,Input the correct **IP address** ,**Port** ,**User Name** ,**Password** ,**Device Protocol**(InVid/Onvif) ,Select **Enable Add to Group** (Create new Group for device) or **Disable Add to Group**(Device will be added to Default Group)and click 'Add'.

After added, you will see the device in the Device Added list and shows online. Means Adding device success.



5.1.3 Cloud ID to Add Device

It suitable for adding Cloud devices which 1. Not under Local Network 2. Device P2P online. Preform this task to login Cloud ID to Add Device.

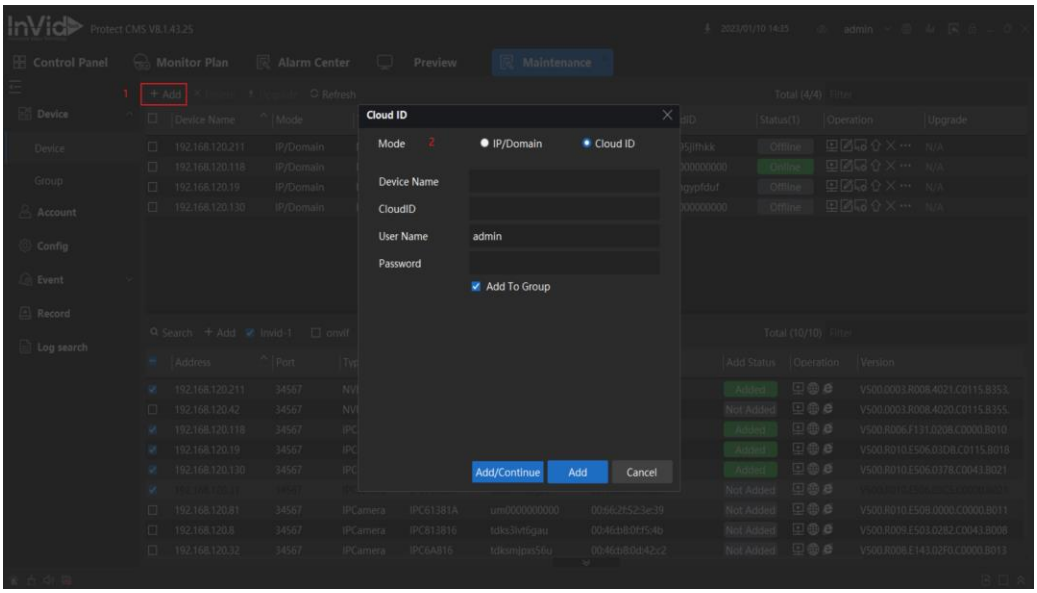
Steps

1. Click **Add**, choose **Cloud ID** Model.
2. Input device information to add a device. You can set the **Device name** and input the Device **Cloud ID** , **User Name**, **Password** to add the device.

Note

You can get the **Cloud ID** from Device Web/Local GUI P2P information page.

After added, you will see the device in the Device Added list and shows online. Means adding device success.



5.1.4 Login Cloud Account to Add Device

It suitable for adding Cloud devices in batches which added by Cloud account.

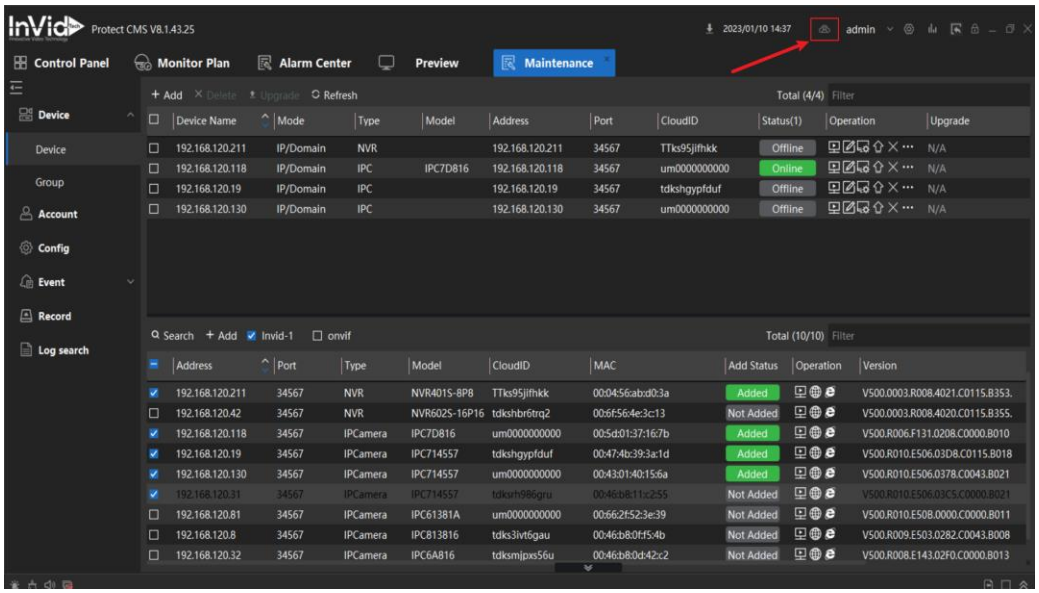
Note

Cloud Account: it is the account that register from APP/Cloud Website. Login the Cloud account, you will see the devices list same as in APP/Cloud Website. You can choose the devices want to be added on VMS.

Perform this task to login Cloud Account to Add Device

Steps

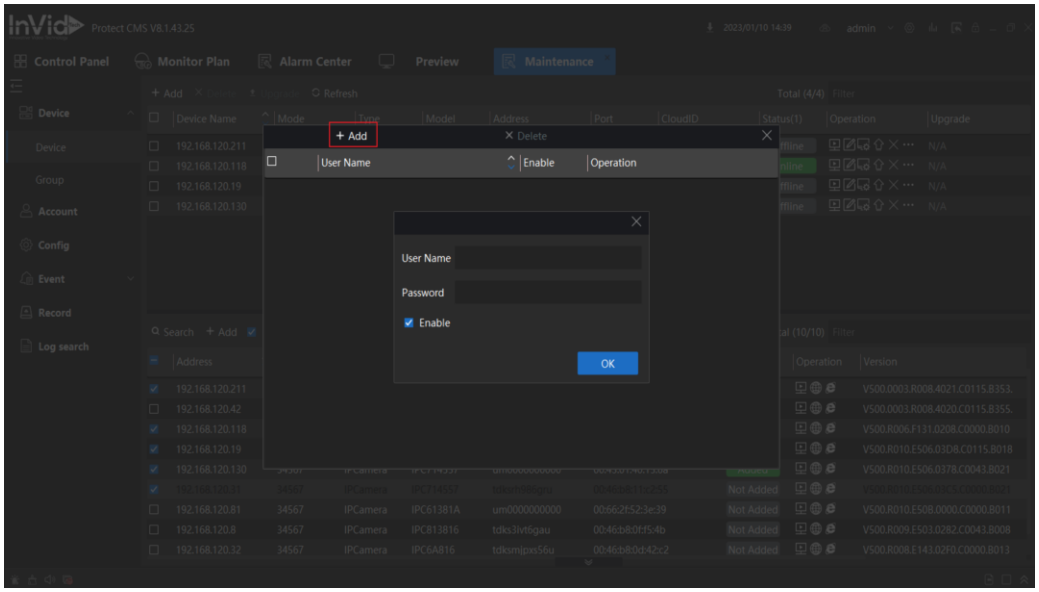
1. Click the 'Cloud' button from the Top Status Bar of software, It will pop-up the Cloud Account Page.

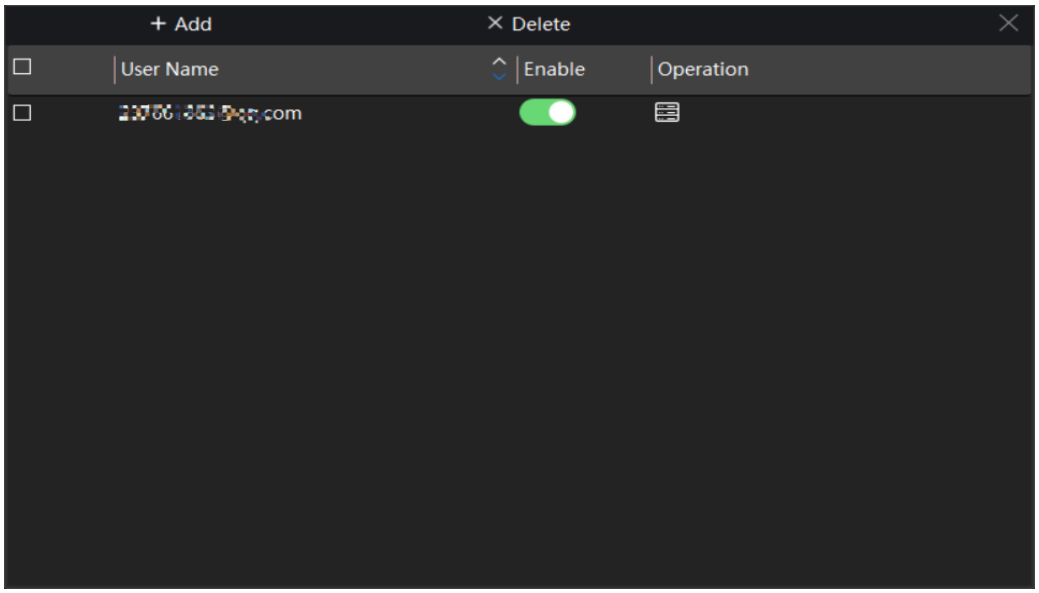


2. Click 'Add ' button on the pop-up window, input the **Username** and **Password** of the Cloud Account. After login success, you will see the Cloud Account shows Enabled.

Note

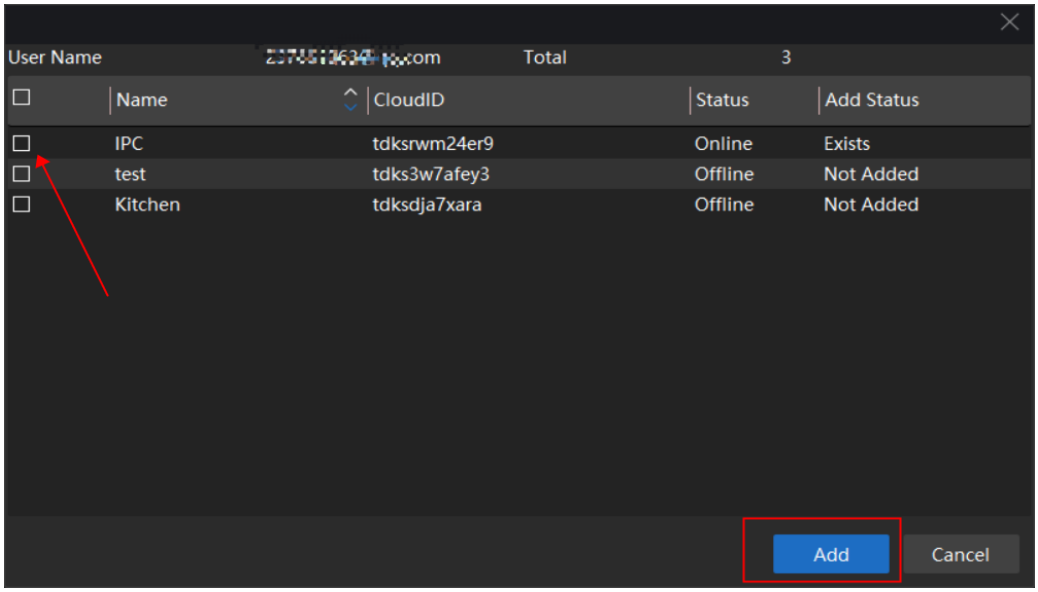
Each time login the VMS, need enable the Cloud Account again. After Enabled-means login the Cloud Account, it will synchronous the newest Cloud Account information from Cloud.



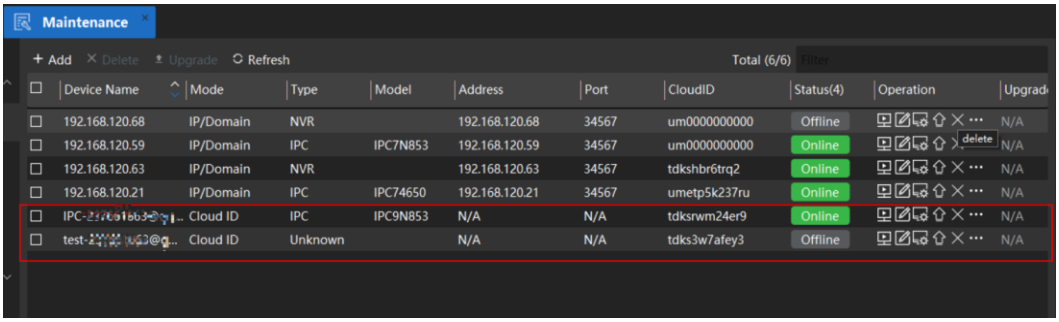


3. Click to show the Cloud Account device list, It may take few seconds, VMS will download the Device list from Cloud.

4. After get the account device list, you can select and click **Add** to add the devices you want to manager on VMS.

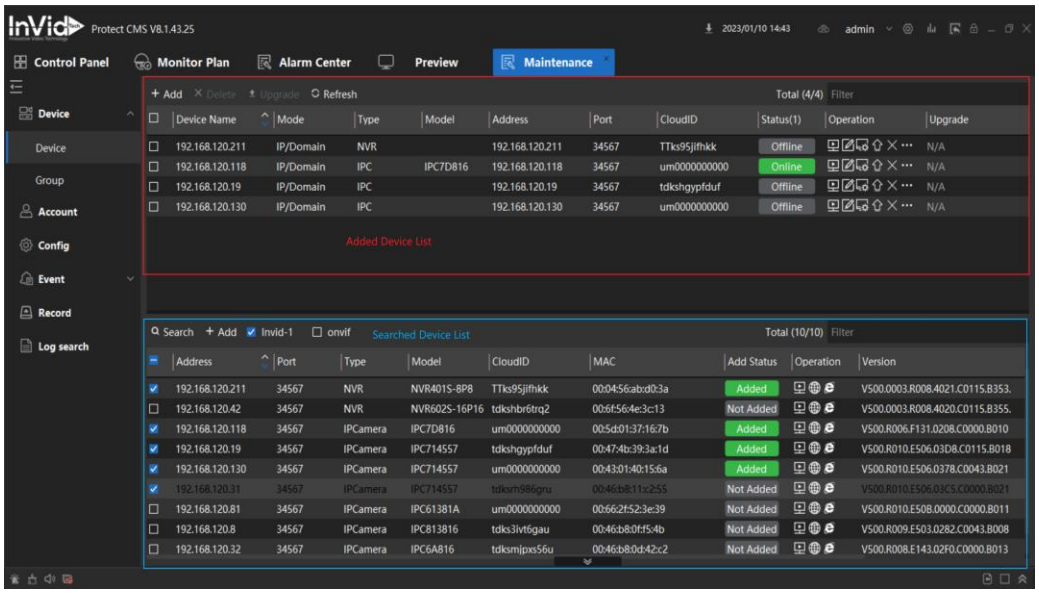


5. After Added, You will see the device in the list, Device name is Name+Cloud Account. Model-Cloud ID. Shown as below picture.



5.2 Edit Devices

VMS Support to edit the device which added or searched.



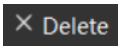
5.2.1 Delete Device

Perform this task when you need to delete device.

Steps

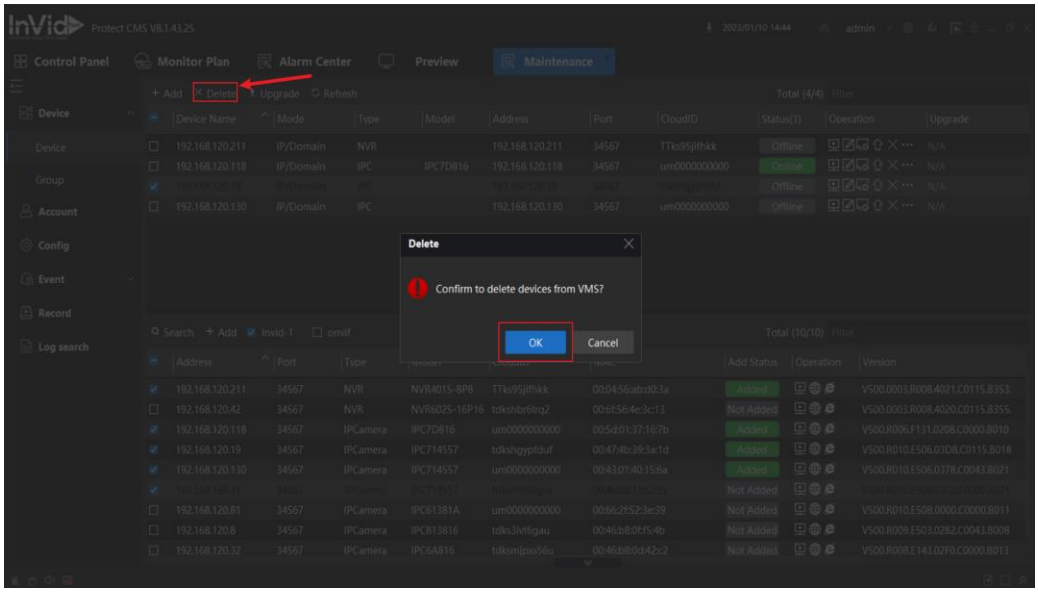
1. Perform one of the following operations to Delete the device

Select the Devices in added device list you want to delete.

- Click the 

delete icon.
- Click the in the device list.

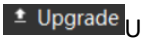
2. It will Pop-up the window to confirm the operation. Click **OK**. Device will be deleted from the added device list.



5.2.2 Upgrade the device firmware

Perform this task if you want to upgrade device firmware remotely.

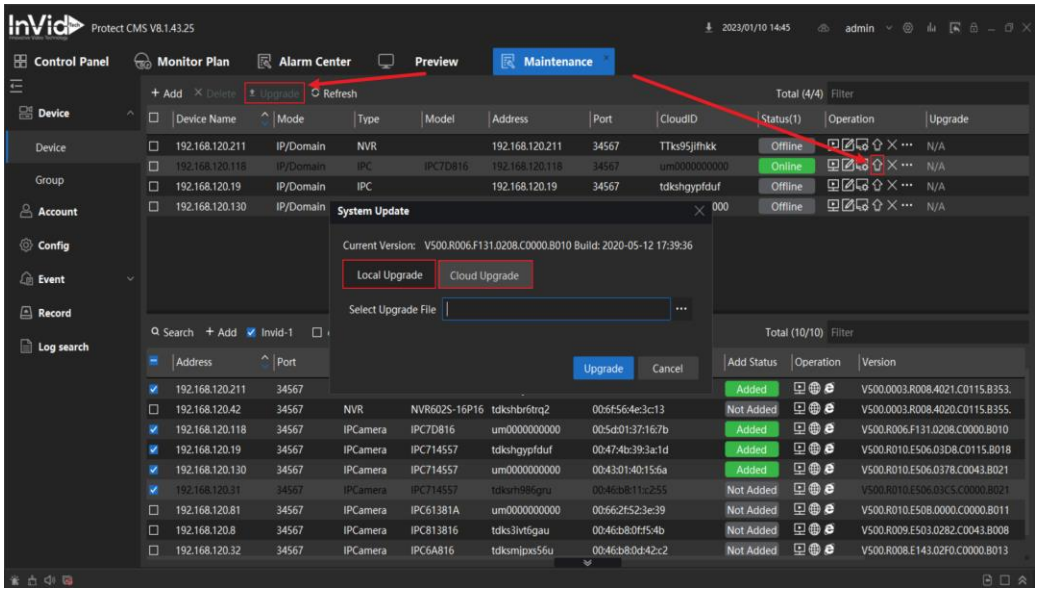
Steps

1. Perform one of the following operations to access the upgrade page.
   - Select the Devices you want to delete, Click the 

Upgrade icon.
   - Click the in the device list-**Operation**.
2. It will pop-up a System Upgrade window, support the **Local Upgrade** and **Cloud Upgrade**.

Note

Only support the IP Model and Online devices to firmware upgrade.



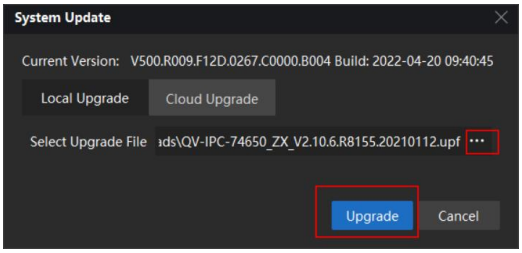
Local Upgrade:

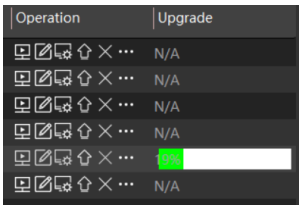
1) Choose **Local Upgrade**

2) Click the to select the firmware file want to upgrade, upgrade file end with ‘ .upf’,

3) Click **Upgrade**, It will start to upgrade.

When Upgrading, you can see the Upgrade progress rate from device list –**Upgrade**; After Upgrade, it will show the upgrade result Upgrade Success/Error.





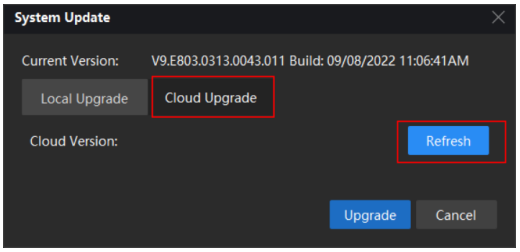
Cloud Upgrade:

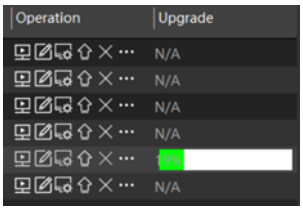
1) Choose the **Cloud Upgrade.**

2) Click the **Refresh** check the firmware whether has the new version from the Cloud.

3) If Have it will shows the Cloud version, user can Click the **Upgrade** to upgrade it.

When Upgrading, you can see the Upgrade progress rate from device list –**Upgrade**; After Upgrade, it will show the upgrade result Upgrade Success/Error.



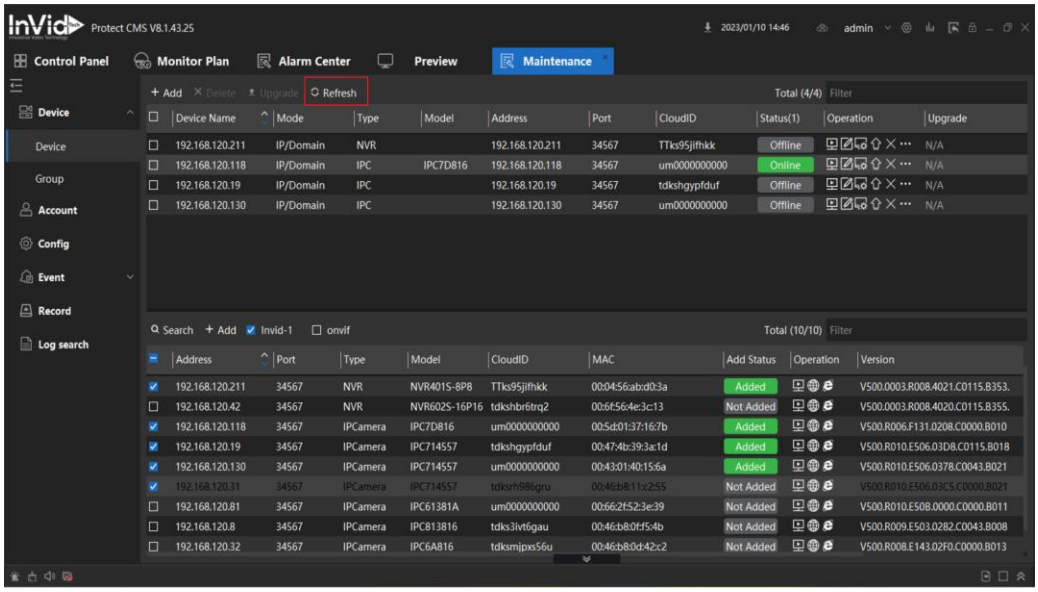


5.2.3 Refresh Device list Information.

Perform this task if you want to check the newest device status

Steps

1. Click the Refresh Refresh , it will refresh the Added devices Status and Searched Online Device Status.



5.2.4 Check Device Live Video

Perform this task if you want to quick check the device live video in device list

Steps

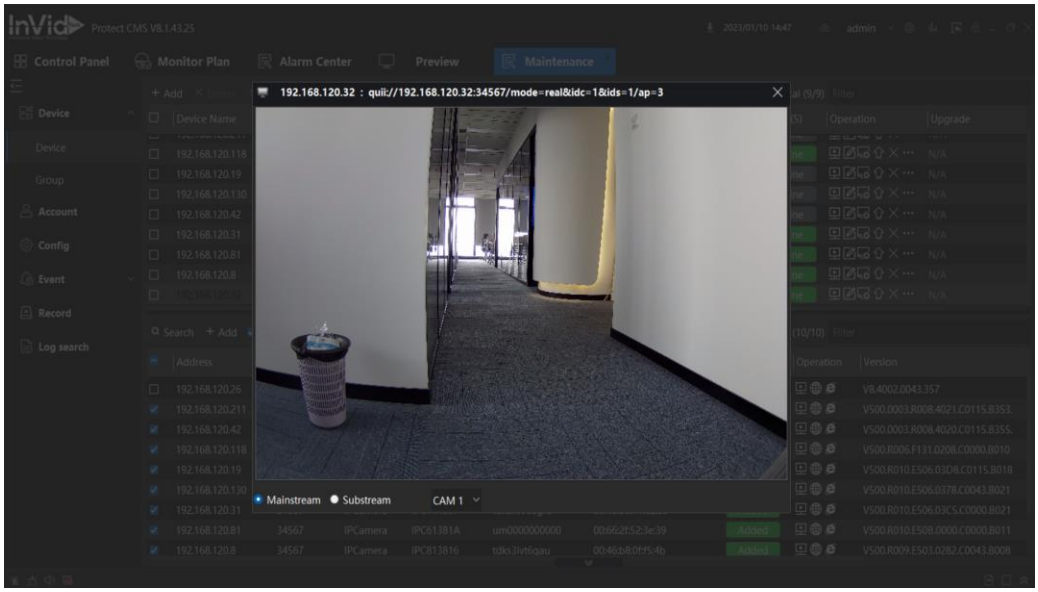
1. Perform one of the following operations to check the Device Live video.

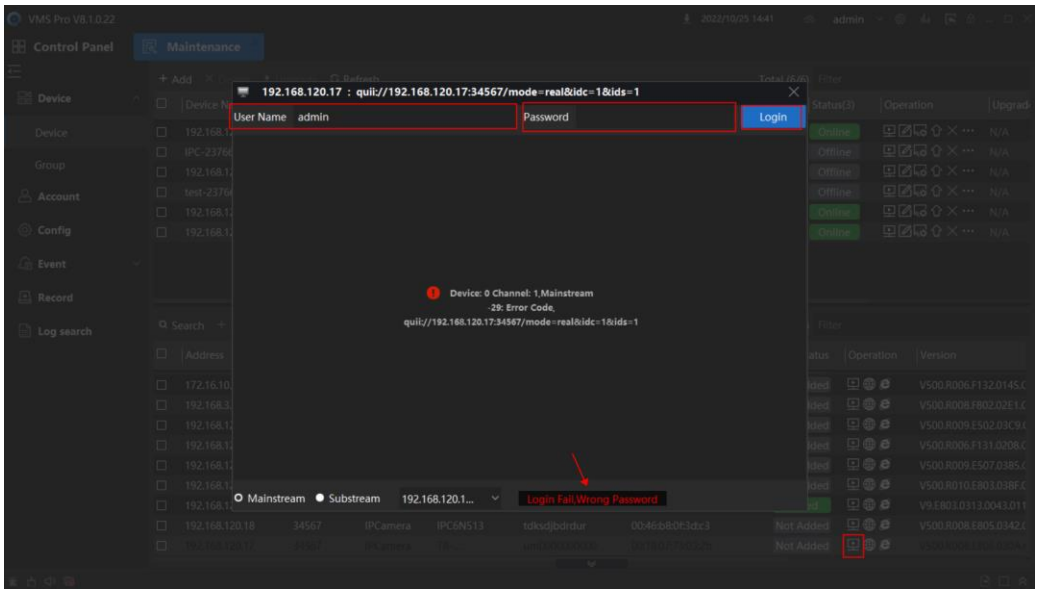
   - If the device already added and shows online, After click the ,it will show the Live video directly. And support to switch the Mainstream / Substream
   - If the device not added before, It will shows wrong, needs input the correct user name and password login the device. Then it will show the Live video in few seconds.

2. **Optional**: If it's an NVR/DVR, support to choose the channel you want to check live video.

Note

Only support the device when it's online.





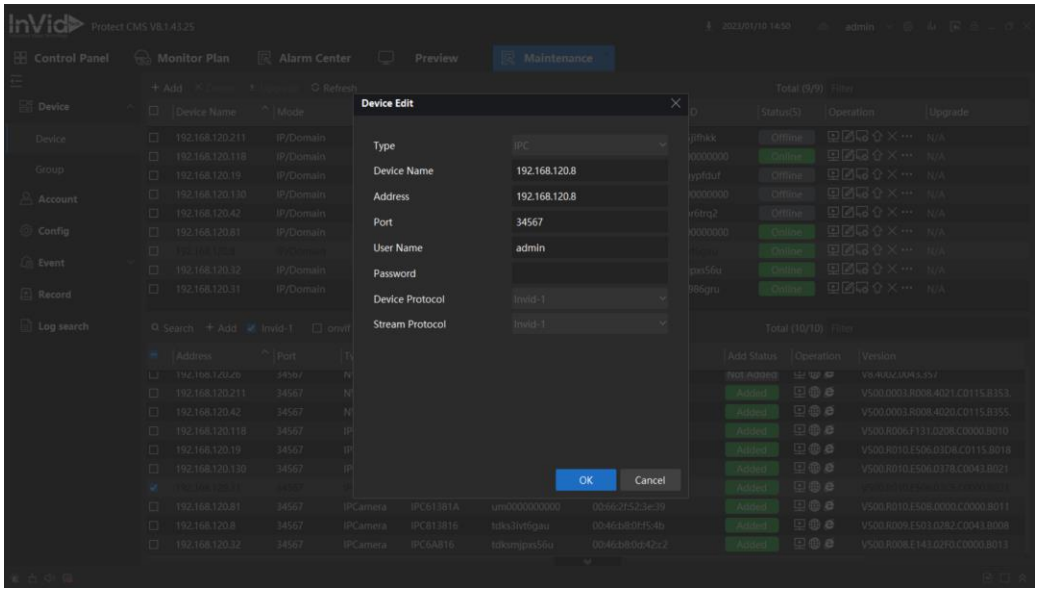
5.2.5 Edit added device

Normally this function after device changed password/port…user can update the information on VMS.

Perform this task if you want to edit the device.

Steps

1. Click the from Added device list-**Operation.**
2. It will pop-up the Device Edit window to edit the Device Name, Address, Port, User Name, Password.

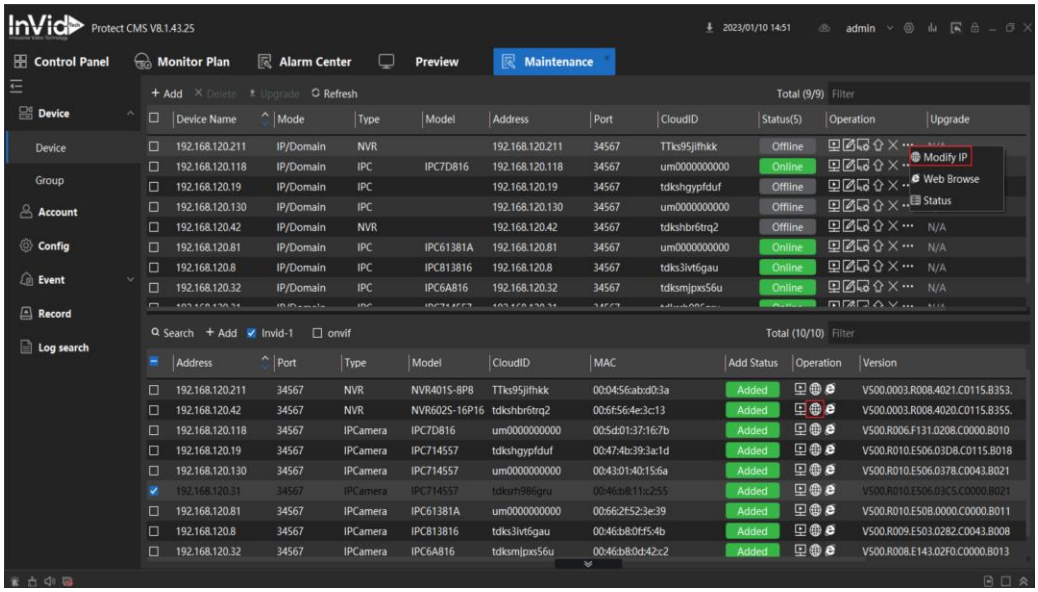


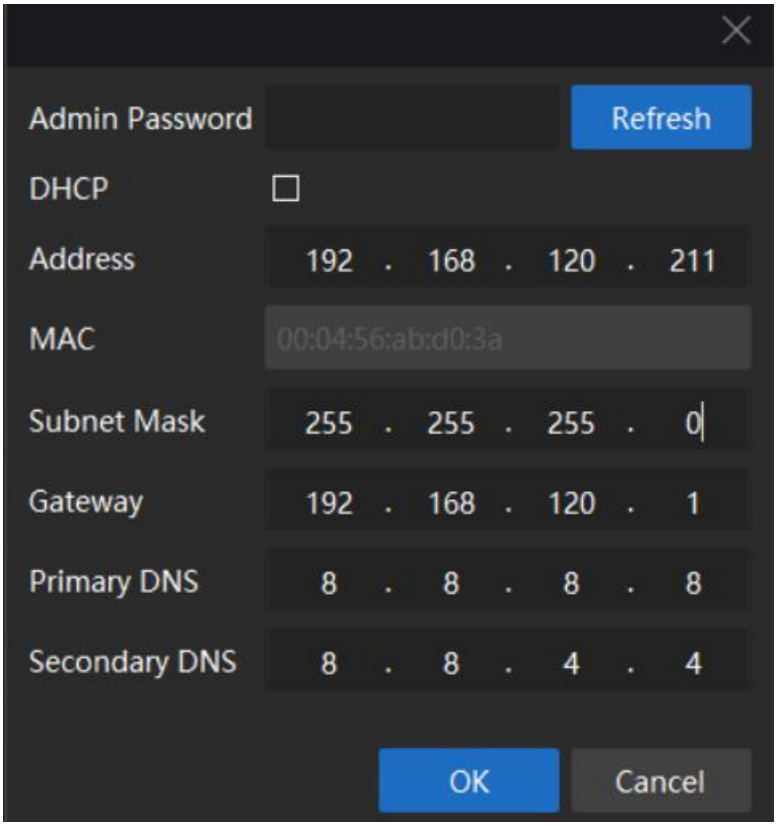
5.2.6 Modify Device Network Parameter

Perform this task if you want to modify the device network parameter.

Steps

1. Perform one of the following operations to modify the device network parameter.
   - Click the ••• on the added device list –**Operation**, click Modify IP;
   - Click the from the searched device list-**Operation:**
2. It will pop up a window that allow to edit the device IP address, Subnet Mask, Gateway, Primary DNS, Second DNS.
3. Input the Admin Password then click OK. Device will change the Network parameter as imputed.



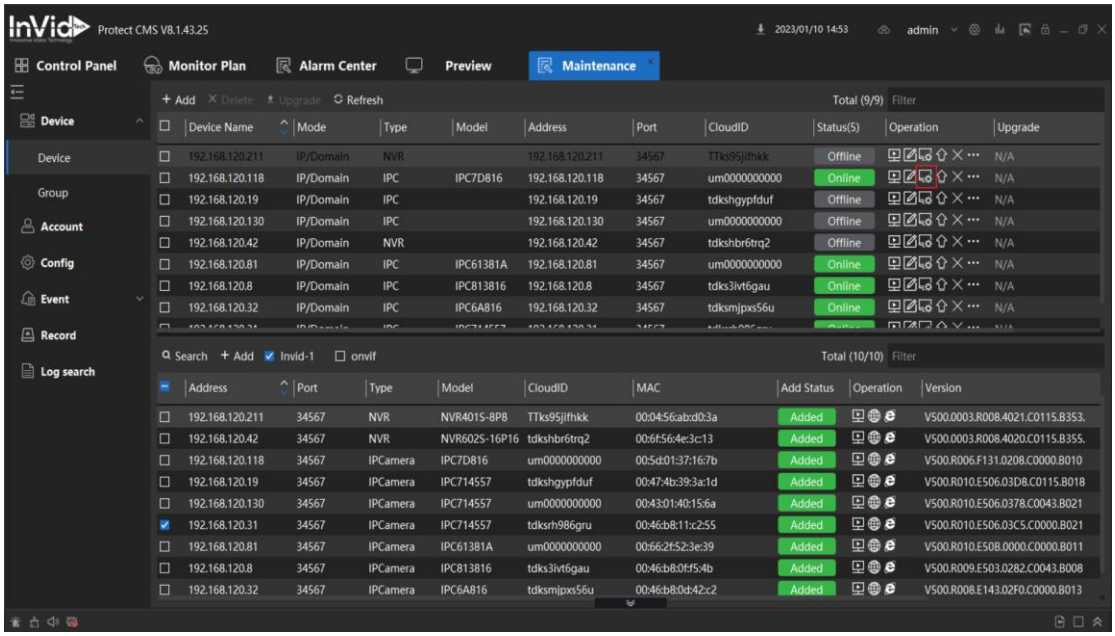


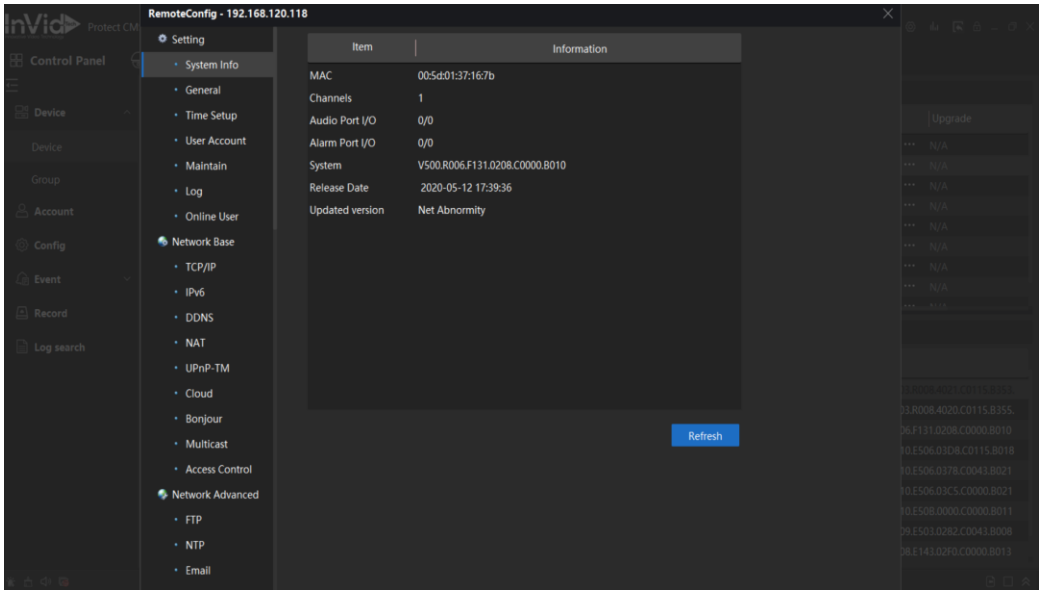
5.2.7 Access Device Configuration

Perform this task if you want to access the device configuration remotely.

Steps

1. Click the on the added device list –**Operation**, It will pop up the device config window, support to check and modify the device configuration.





5.2.8 Access Device Web Browser

Perform this task if you want to modify the device network parameter.

Steps

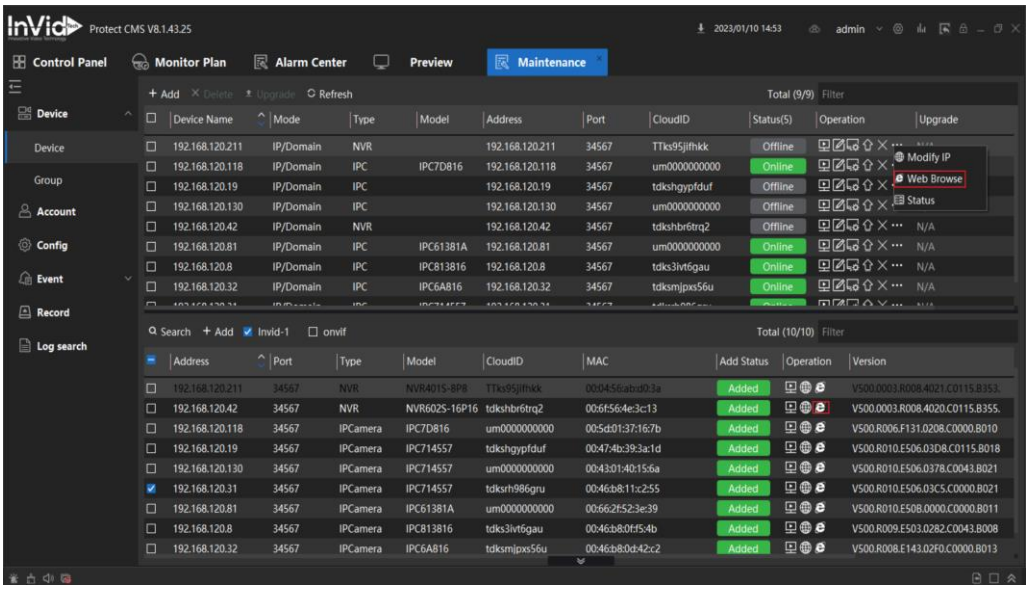
1. Perform one of the following operations to modify the device network parameter.

   - Click the ••• on the added device list –**Operation**, click to access the device by Web Browser;
   - Click the from the searched device list-**Operation** to access the device by Web Browser.

It will open the default web browser, and access the device IP address.

Note

Not support the Cloud ID model device.



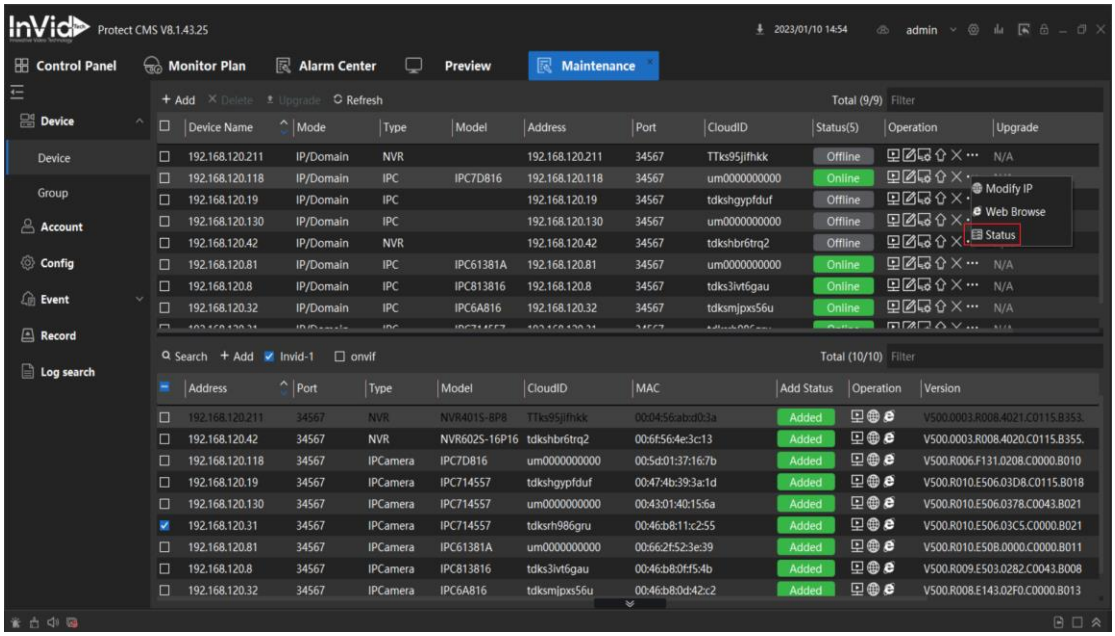
5.2.9 Check Device Status

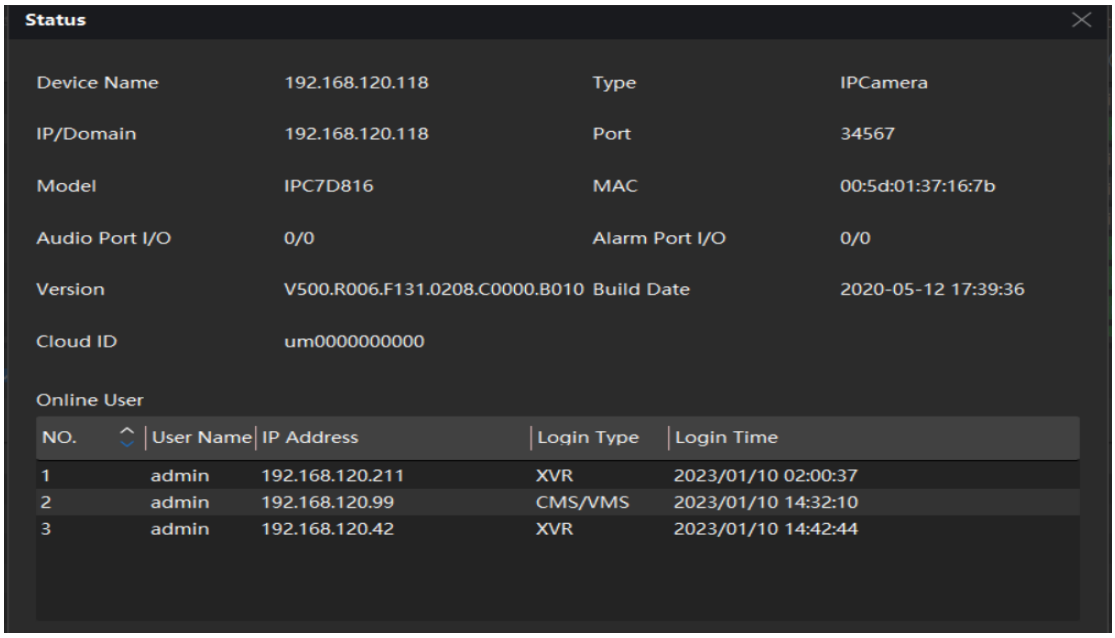
Perform this task if you want to check device status.

Steps

1. Click the ••• on the added device list –**Operation**, click Status , It will pop the Window about the device Status.

You can get the Device Name,Type,IP/Domain, Port, Model, MAC ……etc information





Icon	Description
	Cloud ID QRcode
	Refresh the Devices status
	Preview video channel.
	Edit the device information: name/address/port/user name/password
	View and modify the device's configuration.
	Upgrade device firmware
	Delete the selected devices.
	Include three menus, Modify IP/Web Browser/Status.
	Change device IP address
	Access device by web browser.

Note:

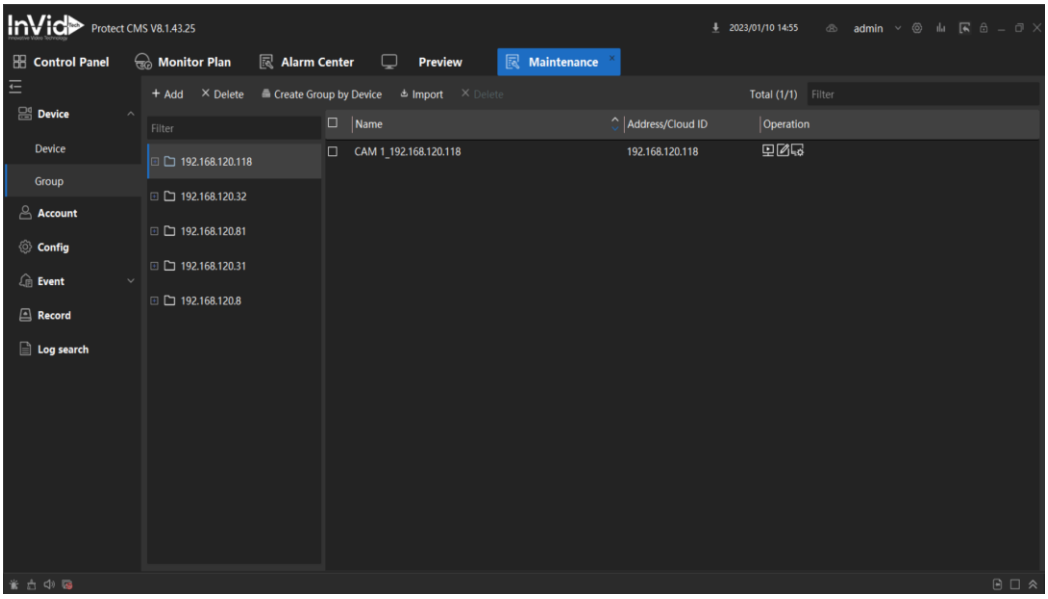
- If adding devices by cloud account, you must enable the cloud account at every VMS login. Otherwise the status of the devices will be offline.

6 Group Management

Suitable for the user, who has numbers of device added by VMS.

Use this function support to add the devices/Channels to group, and rename the group. It will be easier to control the devices.

Click **Device**-**Group**, The Added devices are all listed in the Group that allow the user to Control the devices by Group.

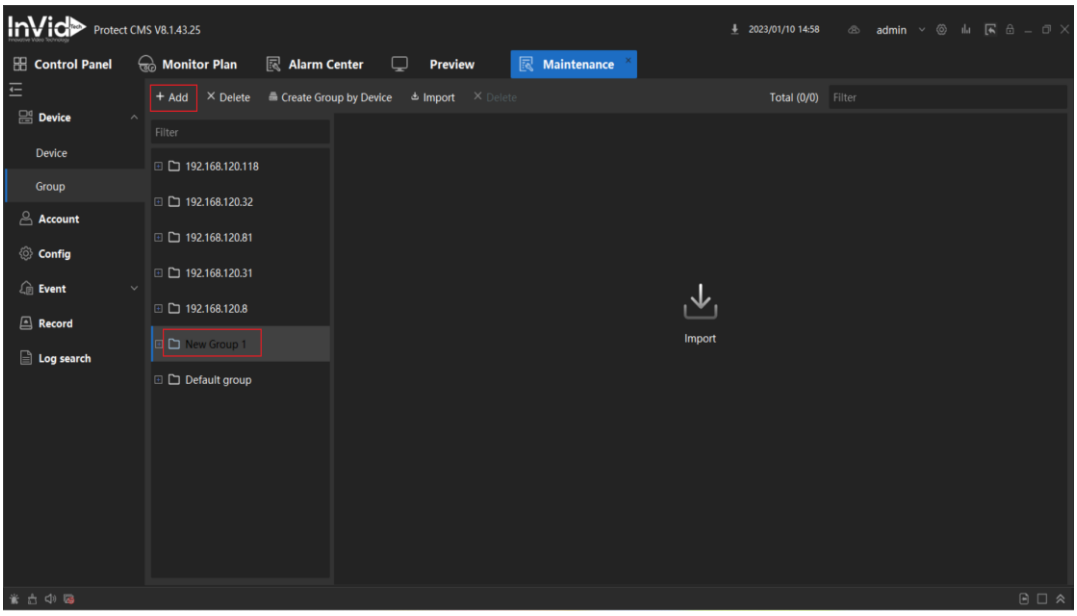


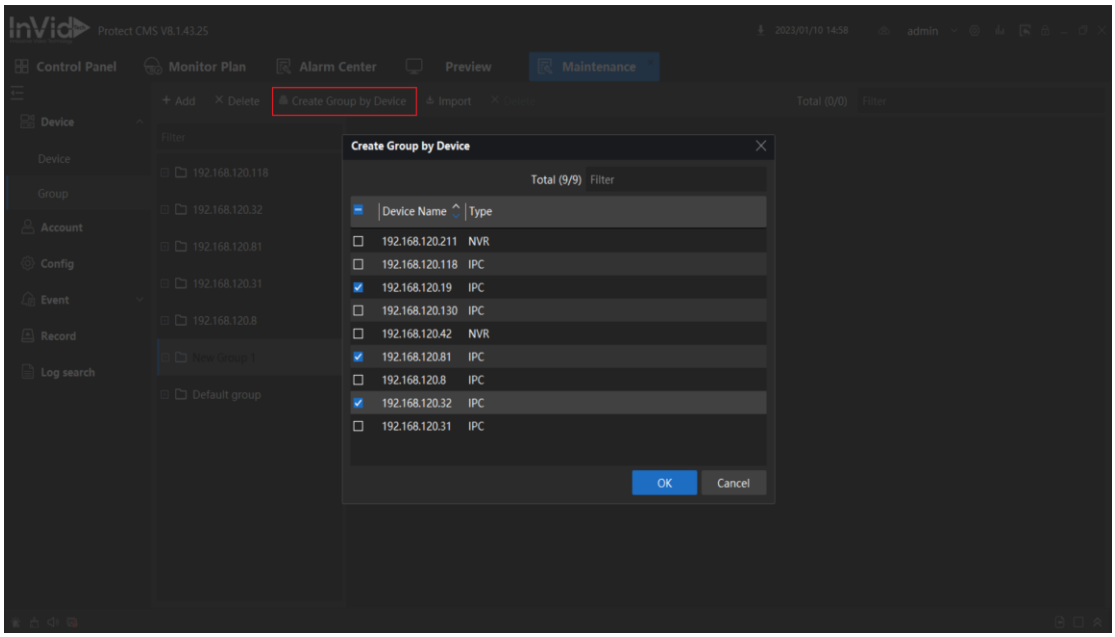
6.1 Create Group

Perform this task when you want to create the group.

Steps

1. Go to **Maintenance-Device-Group.**
2. Perform one of the following operations to Create Group:
   - Click **Add**, the group list will add a new group. Named **New Group1**
   - Click the **Create Group by Device**, it will pop up a window. Select the Devices you want to add to the new group. Click OK. Each device will be a group show in the group list.
3. Click the **Encode Channels,** go to **Available Channels** choose the Devices/Channels that you want to import to the group. Then Click **Import**, the Channels will be added to the New group.



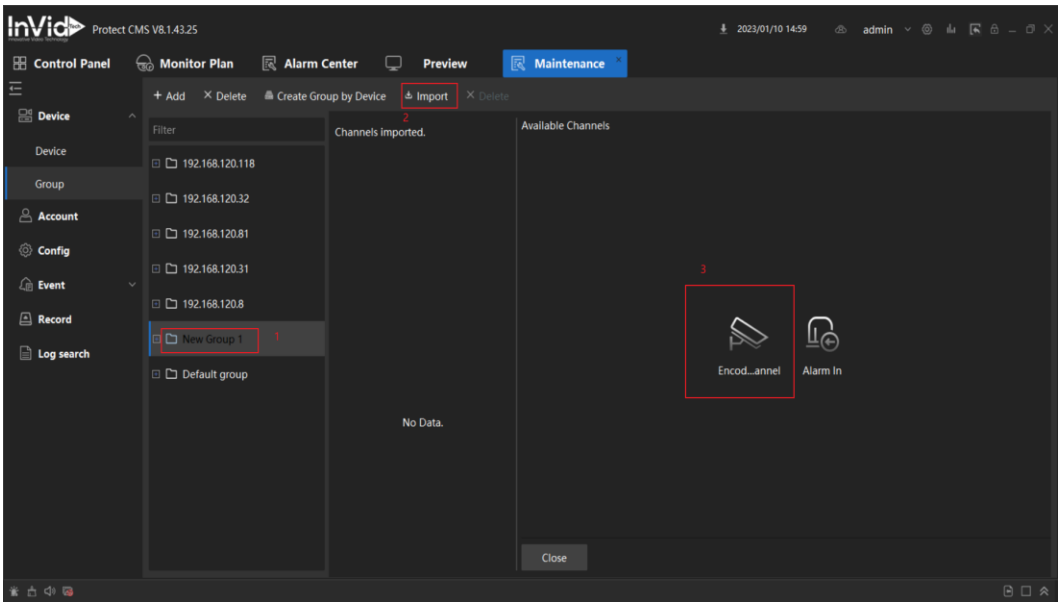


6.2 Import channels to Group

Perform this task you can import the device resources (such as encoding channels, alarm input, alarm outputs, etc.) to the added group in a batch.

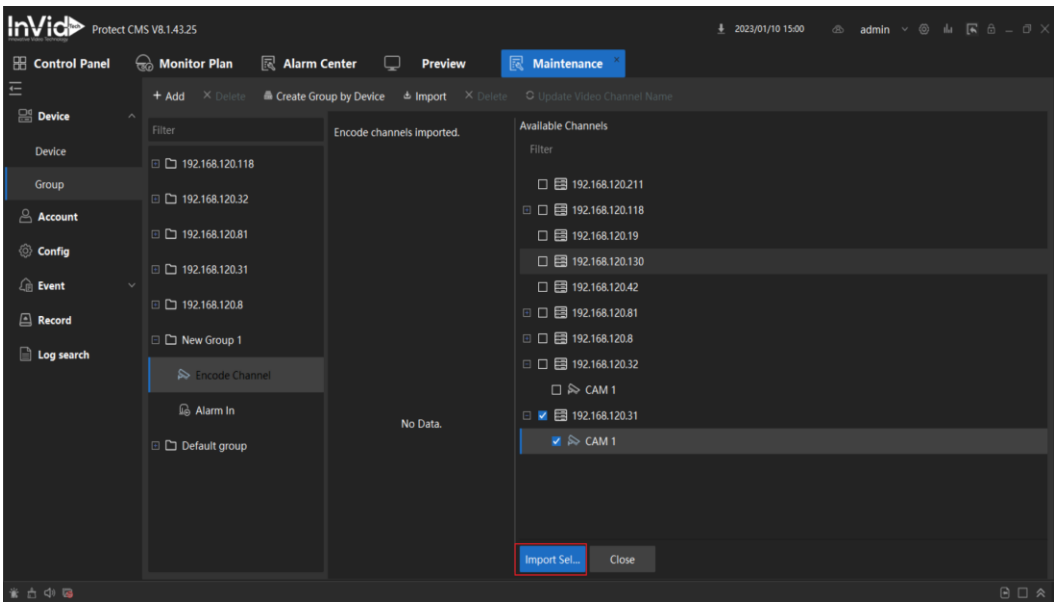
Steps

1. Go to **Maintenance-Device-Group.**
2. Choose the Group you want to import.
3. Click **Import**, The right part will show the Available Channels.
4. Click **Encode Channel** .



It will shows the devices already added. As following picture shows.

5. Go to **Available Channels**, Select the Devices or click the to select the Channels that you want to import to the group.
6. Click Import Selection, the Devices/Channels will be added to the group.

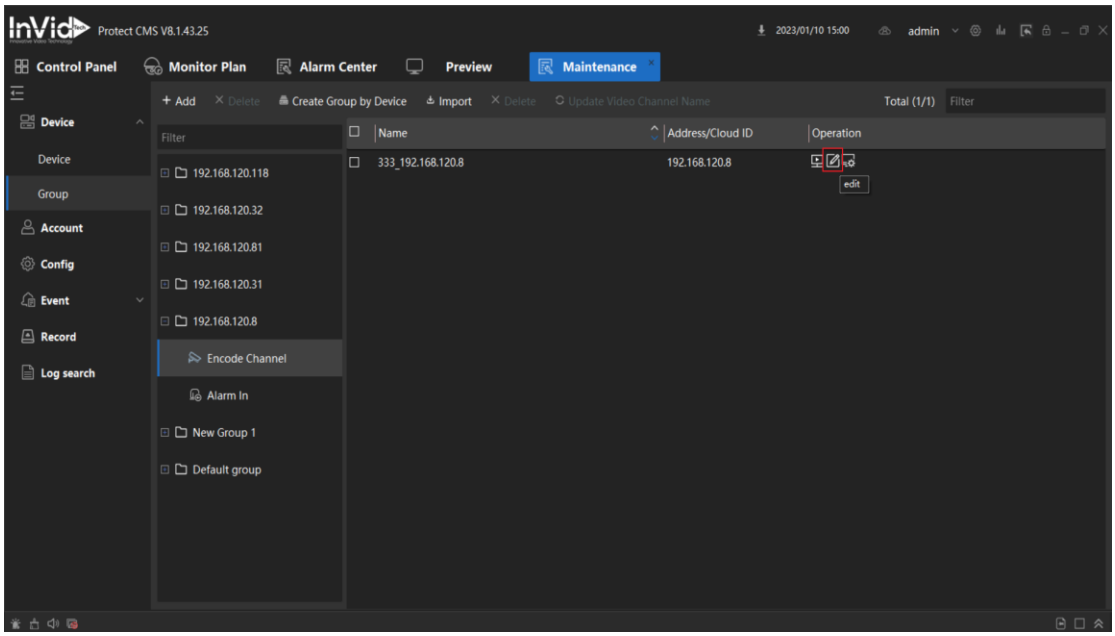


6.3 Edit Channel Parameters

Perform this task you can edit the channel's parameters. (Channel name, Stream type).

Steps

1. Go to **Maintenance-Device-Group.**
2. Choose the **Group** you want to edit.
3. Click the **Encode Channel.**
4. Click the Channels .
5. You can modify the **Channel Name** and select the **Stream Type**.

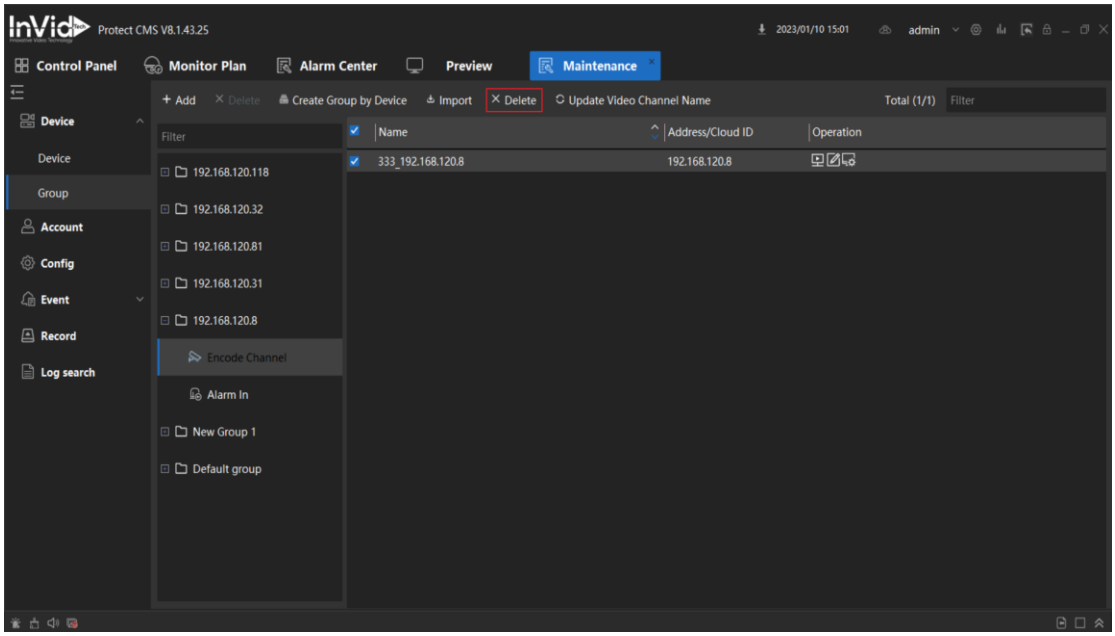


6.4 Delete Channel from Group

Perform this task you can delete the channel from group.

Steps

1. Go to **Maintenance-Device-Group.**
2. Choose the **Group** you want to edit.
3. Click the **Encode Channel.**
4. Click the Channels .
5. Select the Channels you want to delete, and click Delete.

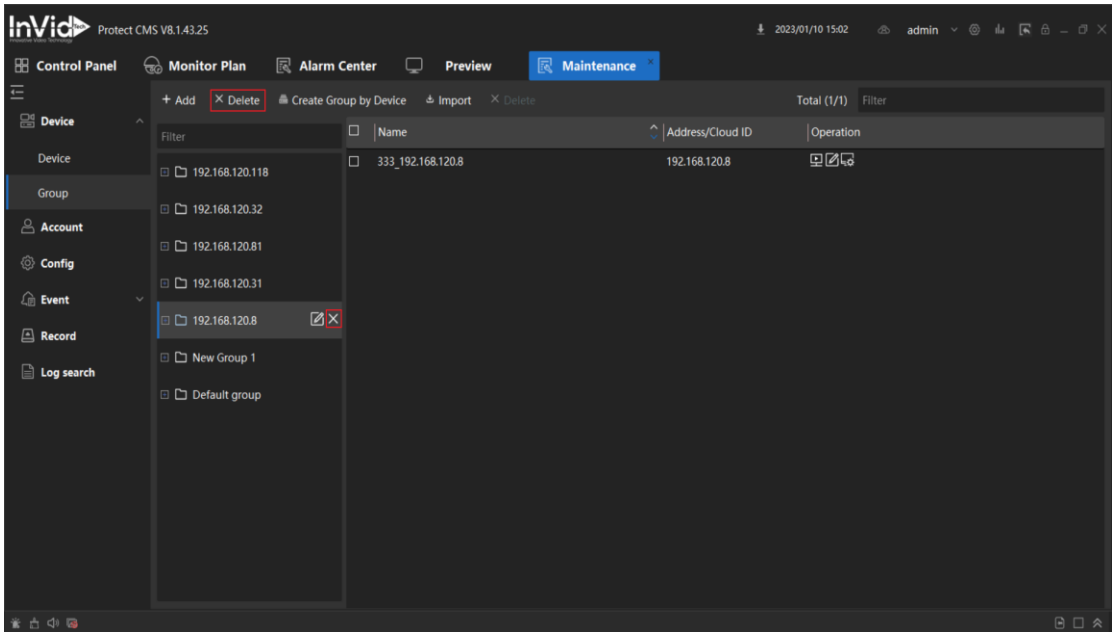


6.5 Delete Group

Perform this task you can delete the group.

Steps

1. Go to **Maintenance**-**Device**-**Group.**
2. Choose the group you want to delete.
3. Click **Delete** to delete the Group.

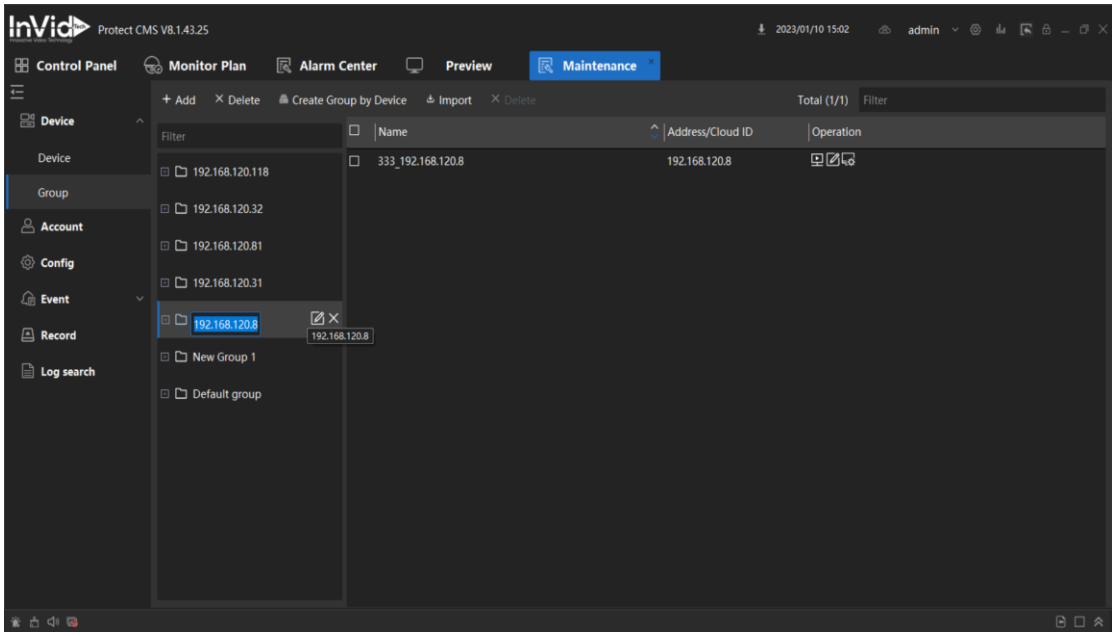


6.6 Rename the Group

Perform this task you can rename the group.

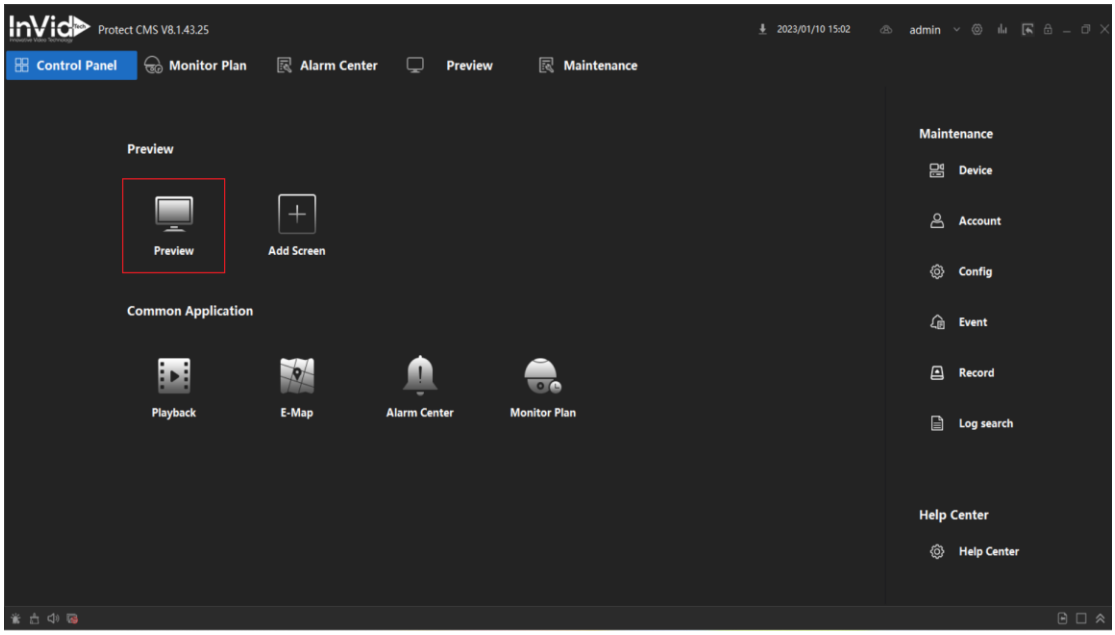
Steps

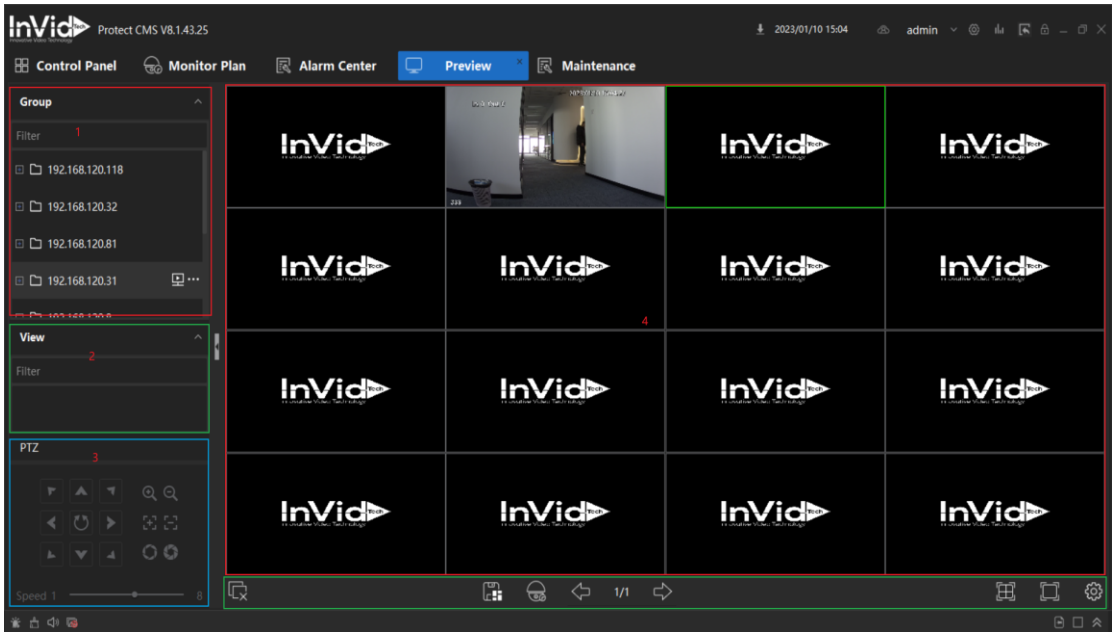
1. Click the edit button on the Group List.
2. Click the blue part to input the new name of the group.



7 Live Video

7.1 Preview Interface Introduce





The Preview interface could divided into 4 parts as the picture shows:

1. **Group List**:It will show the all group, channels that you add to VMS;
2. **Live View Control Bar**: Support to custom view mode;
3. **PTZ Control**: Support to remote control the device PTZ which support the PTZ function;
4. **Windows**: Support to play the Live video and other functions.

7.2 Start and Stop Live Video

After adding the cameras, Go to click Preview to enter preview interface.

You can start the live view of one camera or all cameras in a group. You can also start the live view in default or custom view mode.

7.2.1 Start Live Video for one Camera

You can start the live view of only one camera.

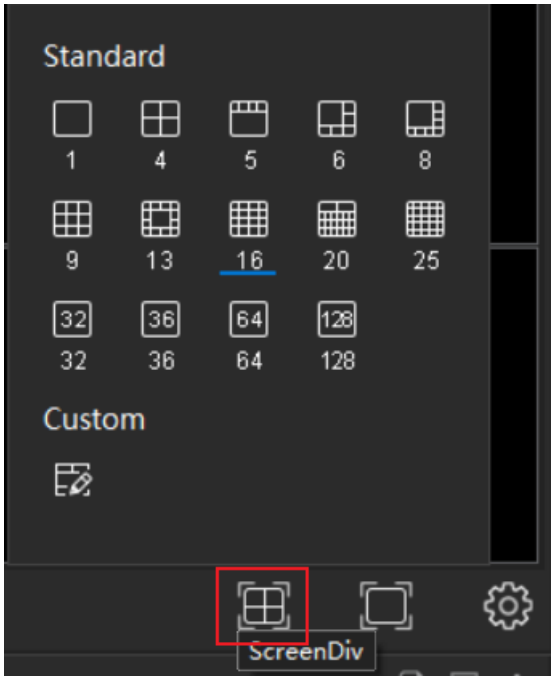
Before You Start

A camera group is required to be defined for live view.

Perform this task if you want to start the live view of one camera.

Steps

1. Open the VMS Control Panel and Go to click Preview to enter preview interface.
2. **Optional**: Click in Live View Control Bar,to select the window division mode for live view



3. **Optional**: Click in Live View Control Bar,to select the Display Scale of the live view window You can set it as **Adaptive**,**16:9**, **4:3**, **1:1**.
4. Choose the camera (means video available) and click the channel icon or double click the item to play the Live video. Wait few seconds, the right window will play the Live video.

Note

When the mouse cursor move on the Group/Camera item. It will show the icon and

: Camera video available; : Camera video not available; : Camera video available and

playing the live video.

5. **Optional**: Drag the video of the camera in live view to another window to change the display window for live view.
6. **Optional**: Click the ···,Stream type to switch the stream type according to actual needs.

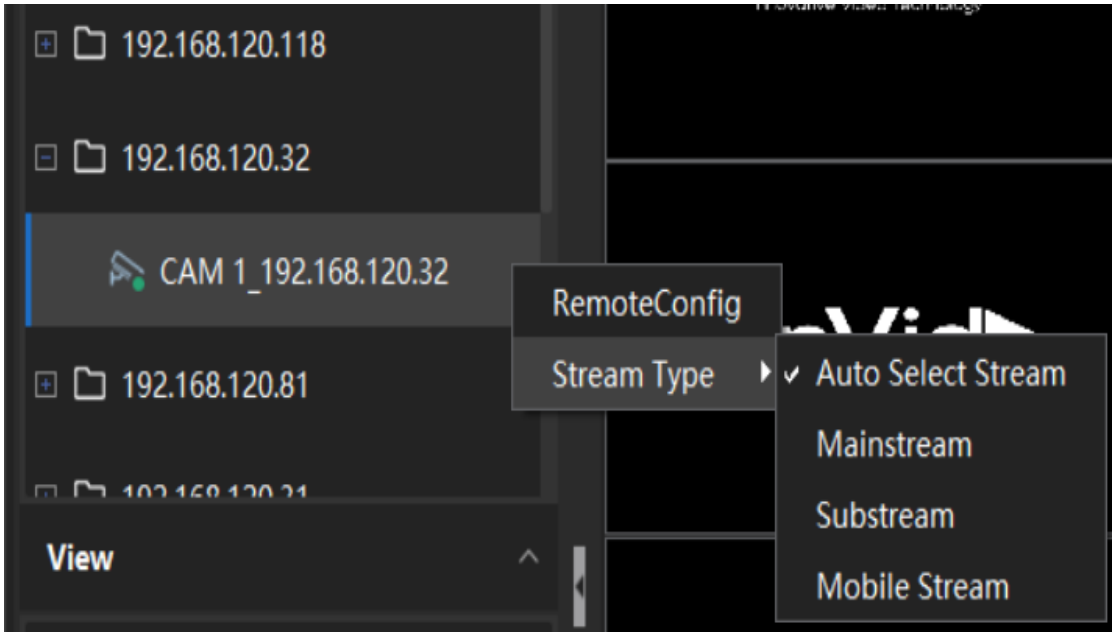
Note

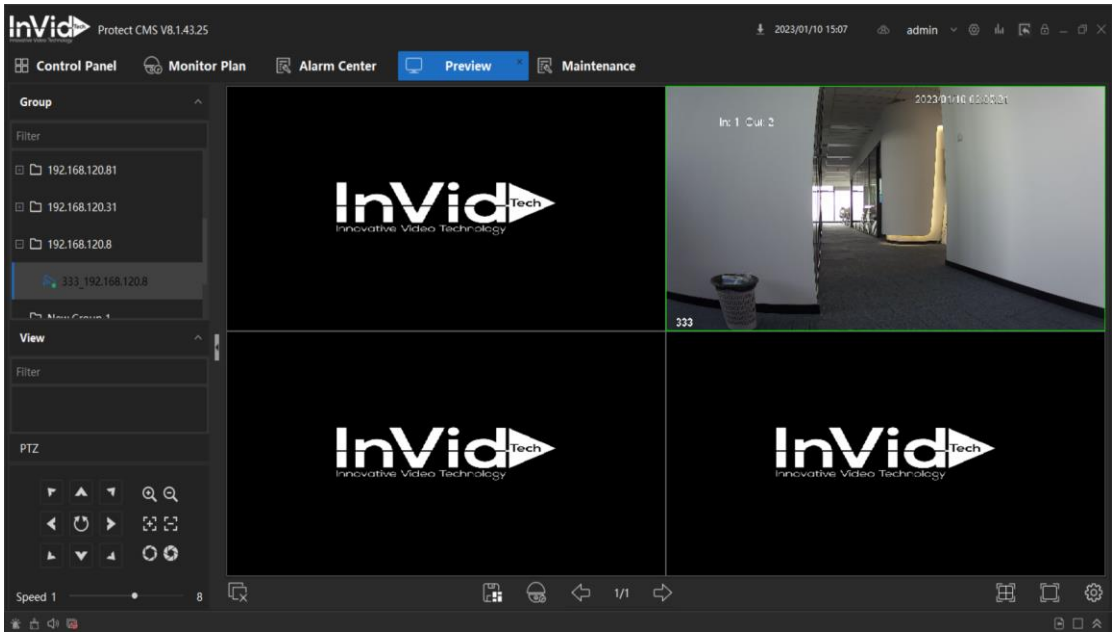
Auto-Select Stream: VMS will choose the stream type by network status automatically.

Mainstream: The highest resolution of video stream;

Substream: Second high resolution of video stream;

Mobile Stream: The low resolution of video stream.





7.2.2 Start Live Video for Group Cameras

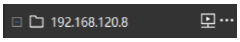
You can start the live view for all cameras in one group synchronously.

Before You Start

A camera group is required to be defined for live view.

Perform this task when you want to start live view for camera group

Steps

1. Open the VMS Control Panel and Go to click Preview to enter preview interface.
2. Click the Group to start the live view. 

Note

The display window number is self-adaptive to the camera number of the group.

3. **Optional**: Click the Group, click **Stream type** to switch the stream type according to actual needs.

7.2.3 Start Live Video with Single Window Cruise

You can start the live view for group cameras with Single Window Cruise

Before You Start

A camera group is required to be defined for live view.

Perform this task when you want to start live view with Single Window Cruise

Steps

1. Open the VMS Control Panel and Go to click Preview to enter preview interface.
2. Click the Group then click the **Single Window Cruise**, VMS will start to play the Live video on the a window, One camera by one camera cruising. Support to set the Interval time(5/20/40 Seconds,1/3/5 Minutes)

7.2.4 Start Live Video with Multi-Window Cruise

You can start the live view for group cameras with Multi-Window Cruise

If the window division mode is 4 windows, group has 16 cameras, 4 windows will play the camera live video 4 cameras by 4 cameras with a certain interval time.

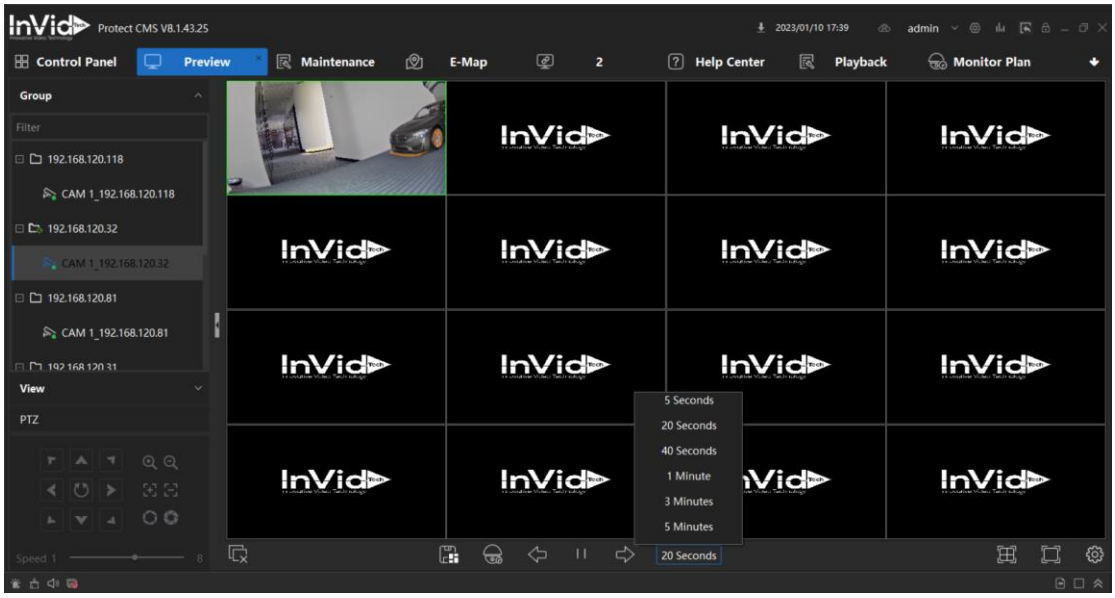
Before You Start

A camera group is required to be defined for live view.

Perform this task when you want to start live view with Multi-Window Cruise

Steps

1. Open the VMS Control Panel and Go to click **Preview** to enter preview interface.
2. **Optional**: Click in Live View Control Bar,to select the window division mode for live view
3. Click the Group then click the **Multi-Window Cruise**, VMS will start to play the Live video on the windows, One channel by one channel cruising. Support to set the Interval time(5/20/40 Seconds,1/3/5 Minutes)



7.2.5 Start Live Video in Custom View Mode

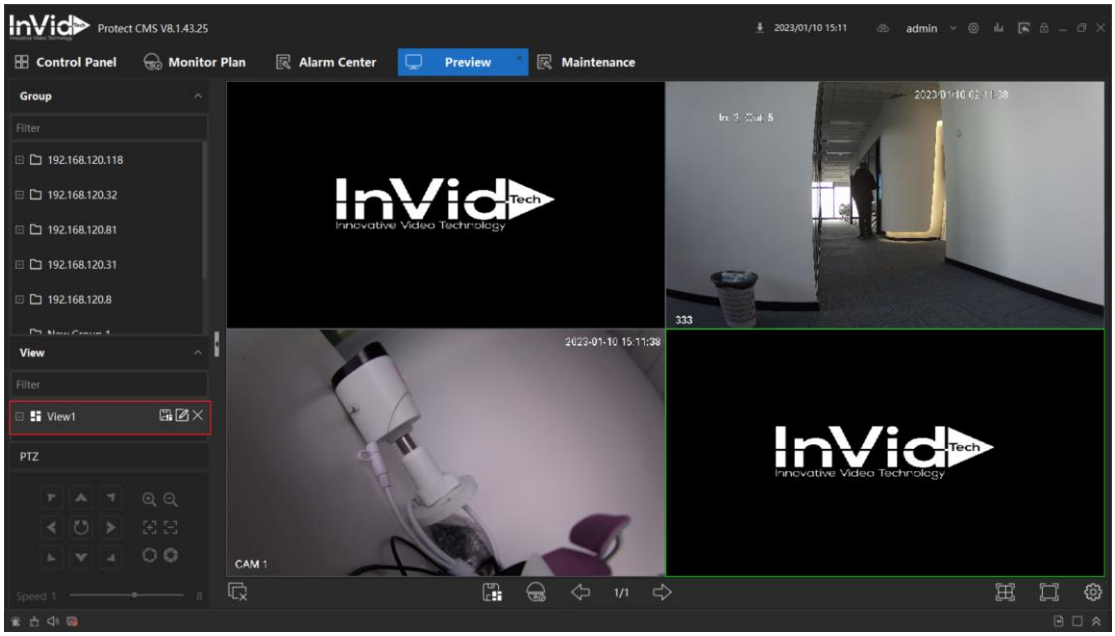
A view is a window division with cameras configured to each window;

View mode enables you to save the window division and the correspondence between cameras and windows as favorite to quickly access the related cameras later. For example, you can link camera 1, camera 2, and camera 3 located in your garden to display windows and save them as a view called Garden.

Preform this task if you want to customize views for further operations.

Steps

1. Open the VMS Control Panel and Go to click **Preview** to enter preview interface;
2. Customize a view
   1) Click in Live View Control Bar,to select the window division mode for custom view mode;
   2) Choose the cameras (means video available) and click the channel icon or double click the item to play the Live video as you needed;
   3) Drag the video of the camera in live view to another window to change the display window for live view as you needed;
   4) Click the Live View Control Bar to save the View.
3. Start live view of the cameras in the custom view.
   1) Find the view that you save from **Live View Control Bar-View.**
   2) Double click the View to start the Live video.



7.2.6 Stop Live View

After starting the live view, you can stop it as desired.

Before You Start

Start the live view.

Perform this task when you want to stop the live view.

Steps

1. Perform one of the following operations stop the live view.

   - Move the cursor over the top of display window and click appeared at the top corner to stop the live view of this display window.

   - Right-click on the display window to open right-click menu and click Close Window on the menu to stop live view.

   - Right-click on the display window to open right-click menu and click Close All Window on the menu to stop all window live view.

   - Click in **Live View Control Bar** to stop all the live view.

7.3 Customize Window Division

The VMS provides multiple kinds of predefined window divisions. You can also set custom the window division as desired.

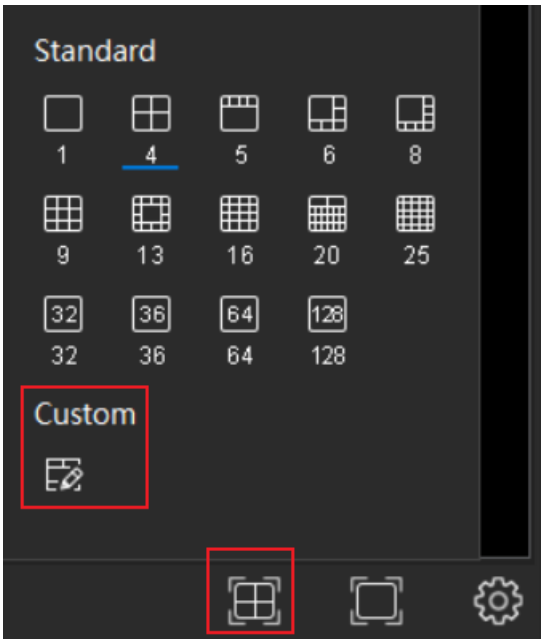
Perform this task when you need to customize the window division.

Steps

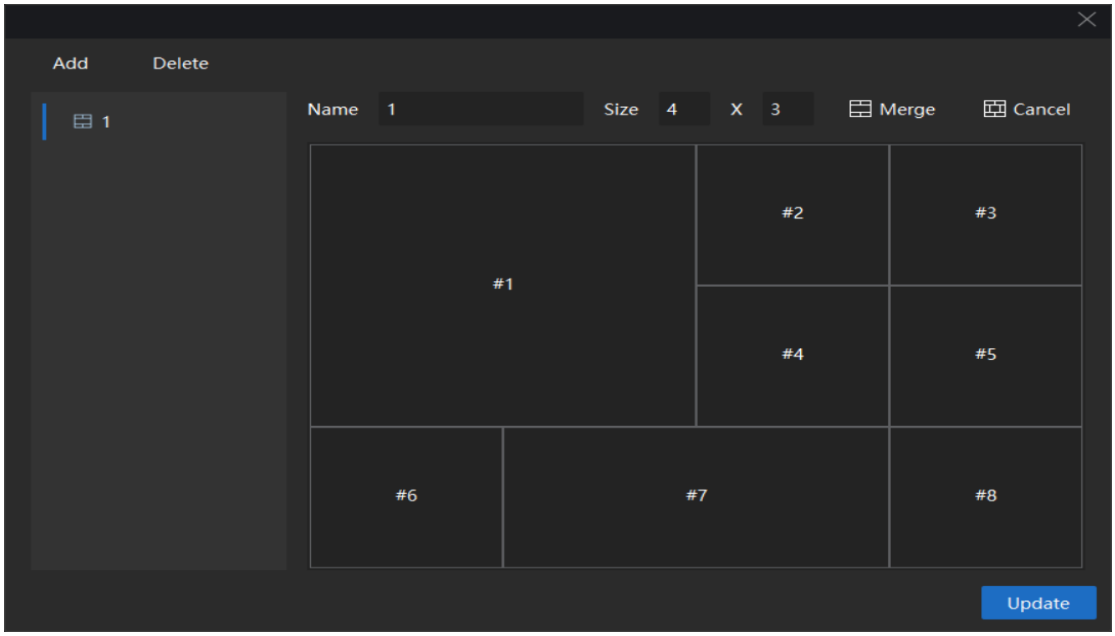
Note

Up to 8 window divisions can be customized.

1. Open the VMS Control Panel and Go to click **Preview** to enter preview interface or Playback interface;
2. Click in **Live View** or **Playback Control Bar**, then click **Custom.**



3. Click **Add** to open the Add Custom Window Division dialog ;
4. Set a **name** for the new window division as desired and click OK.
5. Set the window division, maximum size is 10x10
6. Drag your mouse to select the adjacent windows, and click Merge to merge them as a whole window.
7. **Optional** :Right-click the window to reset the Merge.
8. Click the **Update** or right-click choose **Save** to save the window division.



7.4 Manually Record and Capture

During live view, you can record videos and capture pictures manually, and then view the recorded video files and captured pictures in the local PC.

7.4.1 Manually Record Video

Manual recording function allows to record the live video on the Main View page manually, and you can store the video file in the local PC.

Perform this task when you need to record videos manually

Steps

1. Open the Main View page;
2. Start the live view;
3. **Optional**:You can set the record video file format,Click in Live View Control Bar,Click the **Video Format** selection box, choose the format you need. This 3 format are available: dav,mp4,avi
4. Perform one of the following operations to start manual recording:

Move the cursor to the top of display window in live view to show the toolbar and click on the toolbar. The icon will turn to ,it means it's recording.

- Right-click on the display window, click **Local Record** on the right-click menu, the Local Record is selected means it's in recording.

5. Perform one of the following operations to stop manual recording:
   - Click to stop the manual recording.
   - Right-click on the display window, click **Local Record** on the right-click menu, the

Local Record is unselected means it's not in recording.

The recorded video file is automatically saved to the local PC.

Note The saving path of the recorded video files can be set on the System Configuration page. See 9.1.2 File Saving Path for details

7.4.2 Capture Pictures

You can capture pictures during the live view. Perform this task when you need to capture pictures during the live view.

Perform this task when you need to capture picture manually

Steps

1. Open the Main View page;
2. Start the live view;
3. **Optional**:You can set the capture picture file format, Click in Live View Control Bar,Click the **Snapshot Format** selection box, choose the format you need. This 2 format are available: JPEG,BMP.
4. Perform one of the following operations to capture picture:
   - Move the cursor to the top of display window in live view to show the toolbar and click on the toolbar.
   - Right-click on the display window, click **Snapshot** on the right-click menu

The capture picture file is automatically saved to the local PC.

Note The saving path of the capture picture files can be set on the System Configuration page. See 9.1.2 File Saving Path for details

7.5 More functions

7.5.1 Channel Stream Status

Move the cursor to the top of display window in live view to show the Stream type + Realtime Bitrate.

M :Mainstream; S :Substream; 3 :Mobilestream

7.5.2 Digital Zoom the View

It will support zoom in or out the view in digital zoom mode.

Perform one of the following operations to access digital zoom mode:

- Move the cursor to the top of display window in live view to show the icon ,Click to start the zoom.
- Right-click on the display window, click **Digital Zoom** on the right-click menu

The cursor will be the on the view. You can move the cursor and use the mouse wheel to zoom in or out the view in digital zoom mode. Click the to stop the zoom.

7.5.3 Get the Device Audio

It will enable audio from the device, You can get not only the live video but also the audio from the camera. Perform one of the following operations to capture picture:

- Move the cursor to the top of display window in live view to show the icon ,Click it .
- Right-click on the display window, click **Audio** on the right-click menu

Note Please confirm the device support the Audio function.

7.5.4 Talk to Device

It will enable talk to the device, You can get not only the live video but also talk to the camera. Perform one of the following operations to capture picture:

- Move the cursor to the top of display window in live view to show the icon ,Click it .
- Right-click on the display window, click **Talk to Device** on the right-click menu

Note Please confirm the device support the speaker function.

8 Remote Storage Configuration

The video files can be stored on the HDDs, MicroSD/SDHC cards on the local device, or on the storage server connected.

8.1 Store Video On NVR,DVR,IPC

Some local devices, including the DVRs, NVRs, and IP Cameras, provide storage devices such as the HDDs, and MicroSD/SDHC cards for video files. You can set a recording schedule schedule for the channels of the local devices

Before You Start

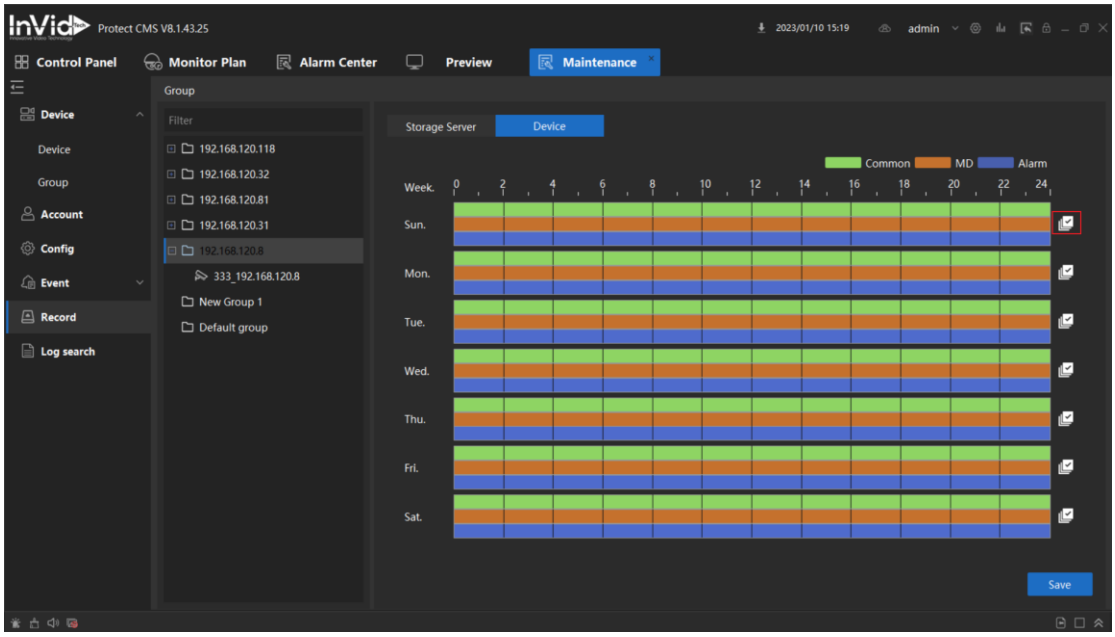
Please confirm the device install the HDDs, and MicroSD/SDHC cards.

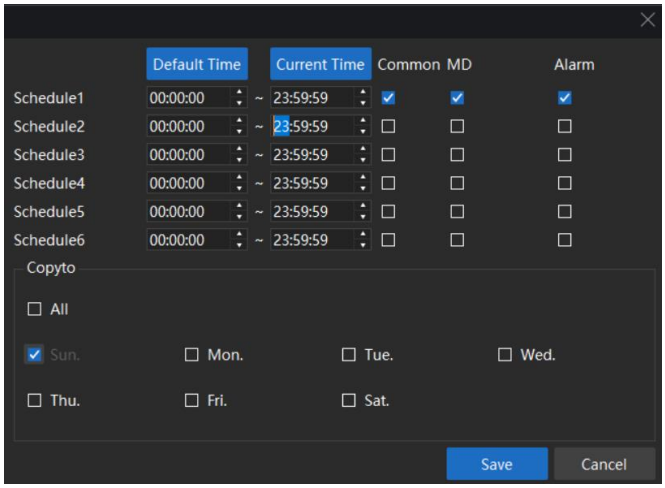
Perform this task when you need to store the video file on the encoding device such as DVR, NVR, or IP camera.

Steps

1. Open **Maintenance**-**Record**, Choose the device or channels from group.
2. Please confirm choose the **Device**

3. Click the to enter the edit page.





4. Set the time and date for recording schedules, click Save.

Common: Normal and continuous recording.

MD: The recording is triggered by event.

Alarm: The recording is triggered by device Alarm in

8.2 Store Video On Storage Server

8.2.1 Active Storage Server

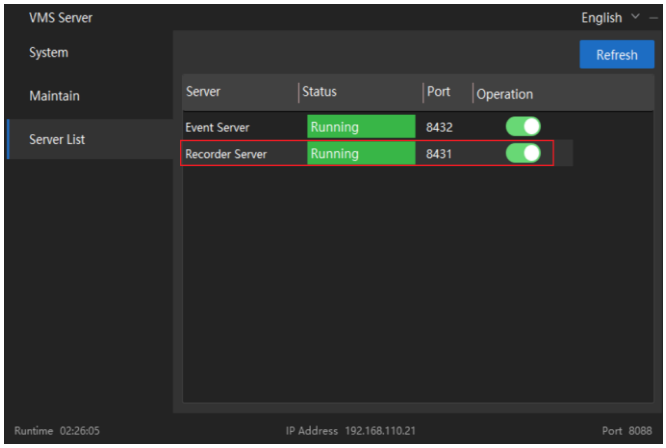
Perform this task when you need to active storage server.

Steps

1. Perform one of the following operations to run the Storage Server.
   - 1）Right click the VMS Server Icon in mission board ,choose settings

2）Click **Server List**, enable **Recorder Server**

- Open the Recorder Server as shown below



Recorder Server

Note

You can also record the video files on the Storage Server installed on another PC.

8.2.2 Initialize Storage Server

You should initialize the storage server for the video file storage.

Perform this task to initialize storage server.

Steps

1. Right click Recorder Server from mission board access the **Record Server** setting Page
2. Click **Disk Config**, Select the disk and click the **Initialize** the record disk. After Initialized, that VMS could record the video at Record server.

Note

The Initialization will not format the HDD

3. **Optional**:

Channel- It will show the recording channel information.

Diskstatus- It will show the computer diskstatus

Search- Support to search the channel recording status

System- Support to check the IP address and port, Support import the security certificate to bind the VMS Server.

Note

Security certificate used for when Recorder Server install on another PC.

If you want to know how to use the running Recorder Server on another PC, please refer to

8.2.3 Add Storage Server to Client

You can add storage server to the client for storing the video and pictures of the added encoding devices.

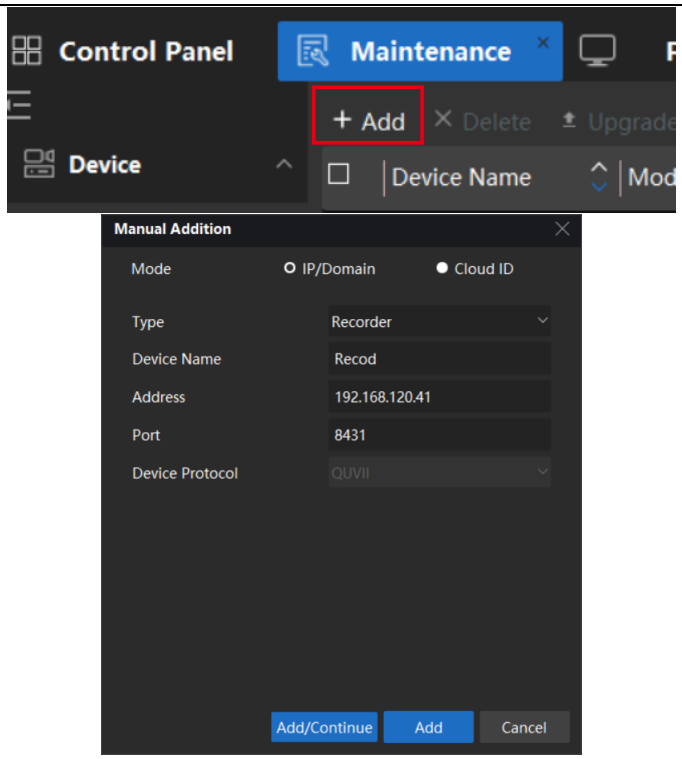
Perform this task when you need to add storage server.

Steps

1. Go to **Maintain-Device**, click **Add** to add the Recorder Server to device list.
2. **Type** choose the Recorder, set the Device Name, Input the Recorder Server IP address ,then click Add.

Note

Please check the Recorder Server IP address from the Recorder Server Service.



3. After added, you will see the Recorder Server was added and Online.

8.2.4 Configure Storage Settings

When the storage server is available, you can set the recording schedule or capture schedule for the cameras.

Before You Start

The newly installed storage server need to be initialized.

Perform this task when you need to configure storage settings.

Steps

Note: Blue color marked is the scheduled time to record.

1. Open **Maintenance**-**Record**, Choose the device or channels from group.
2. Please confirm choose the **Storage Server**
3. Move the cursor on the schedule, click to choose the time to record.

Note

Blue color marked is the scheduled time to record.

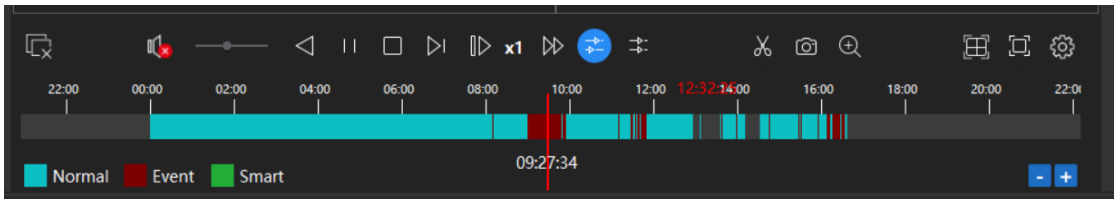
4. **Optional**: support to choose the **Mainstream**/**Substream** to record.
5. Click **Save**

9 Playback

You can search the video files stored in the local device or the storage server by camera or triggering event, and then play them remotely

There are 4 Playback mode: Normal/Event/Smart/Image Playback.

9.1 Playback Toolbar Introduce



Icon	Name	Description
	Close windows	Stop all windows playback
	Audio Control	Control the video Audio
	Backward	Playback the video with backward time line
	Play	Start Play the video
	Pause	Pause the video playback
	Stop	Stop the video playback
	Next Frame	Play the video frame by frame.
x1/4	Slow Play	Play the video with slow speed.
x16	Fast Play	Play the video with fast speed.

	Asynchronous	When play 2 or more videos, set this function, they will not play with synchronies
	Synchronization	When play 2 or more videos, set this function, they will play with synchronies.
	Manual Video Cut	Click at the start time, and move the timeline ,click at the end time. Video will be saved in PC.
	Snapshot	Click to snapshot the video picture.
	Digital Zoom	Click and move the curse to the play window, use the mouse wheel to zoom in or out the view in digital zoom mode.
	Timeline zooms in/out	Click '-' the video timeline will be shorter, Click '+' the video timeline will be longer.

Note

Synchronous cannot support more than 4 channels.

VMS maximum supports 9 channels playback at the same time. Playback performance is also related to the local host computer performance.

9.2 Normal Playback

Perform this task when you need to search video file by camera or group for normal playback.

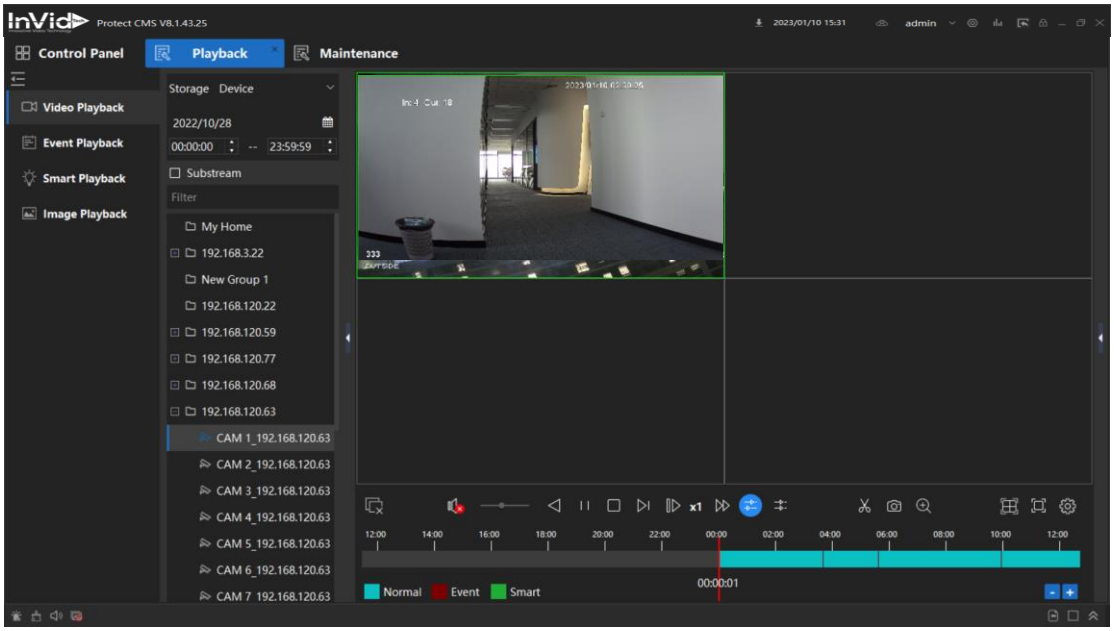
Steps

1. Click to enter the Playback interface.
2. Select the **Video Playback** .
3. Select **Storage source**.
   Device:will search and get the video from Device HDDs, MicroSD/SDHC cards
   Storage Server: will search and get the video from Storage Server
4. Select the date, start and end time which you want to search and playback.
5. **Optional**: Enable **Substream**-will search the substream video
   Disable **Substream**-will search the mainstream video.

Note

Need the Storage source record the Substream to support playback with substream. Details check from 7.2.4 Configure Storage Settings

6. **Double click** Group /camera which you want to playback.
7. The Playback video will play on the right window automatically start from the start time you set.

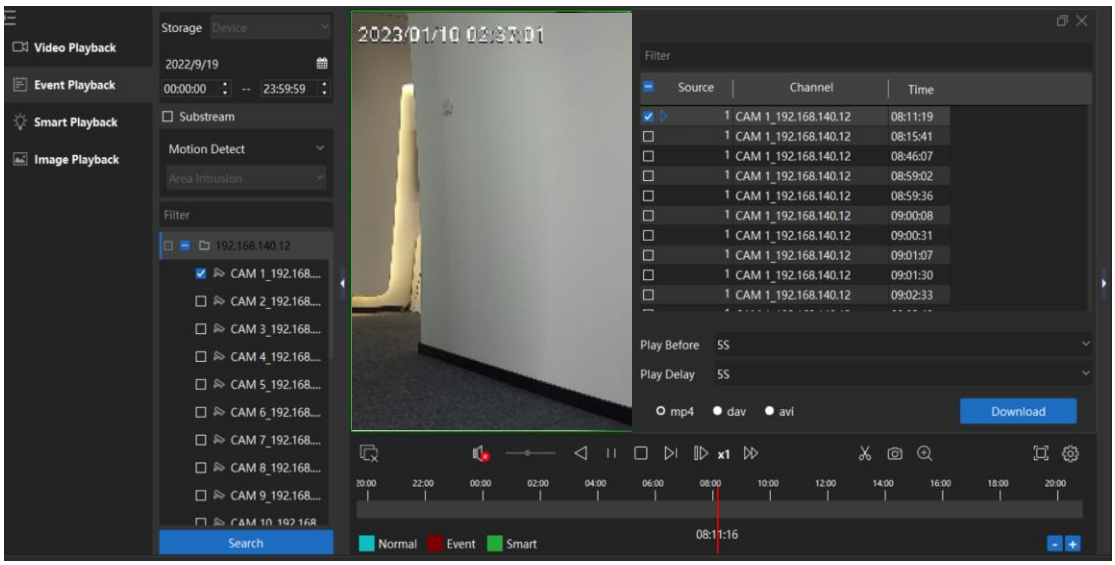


9.3 Event Playback

Perform this task when you need to search video file by camera or group for event playback.

Steps

1. Click to enter the Playback interface.
2. Select the **Event Playback** .
3. Select **Storage source**.
   Device:will search and get the video from Device HDDs, MicroSD/SDHC cards
   Storage Server: will search and get the video from Storage Server
4. Select the date, start and end time which you want to search and playback.
5. **Optional**: Enable **Substream**-will search the substream video
   Disable **Substream**-will search the mainstream video.
6. Choose the **Event type** you want to search.
7. Choose the **Device/Channel** which you want to playback.
8. Click **Search**
9. Right side will pop up a window about the Events that be searched.
10. **Optional**: support to set the time of Play Before,Play Delay.
11. **Optional**: Support to set the video format you want to download.
12. Choose the Event to Play or Download



9.4 Smart Playback

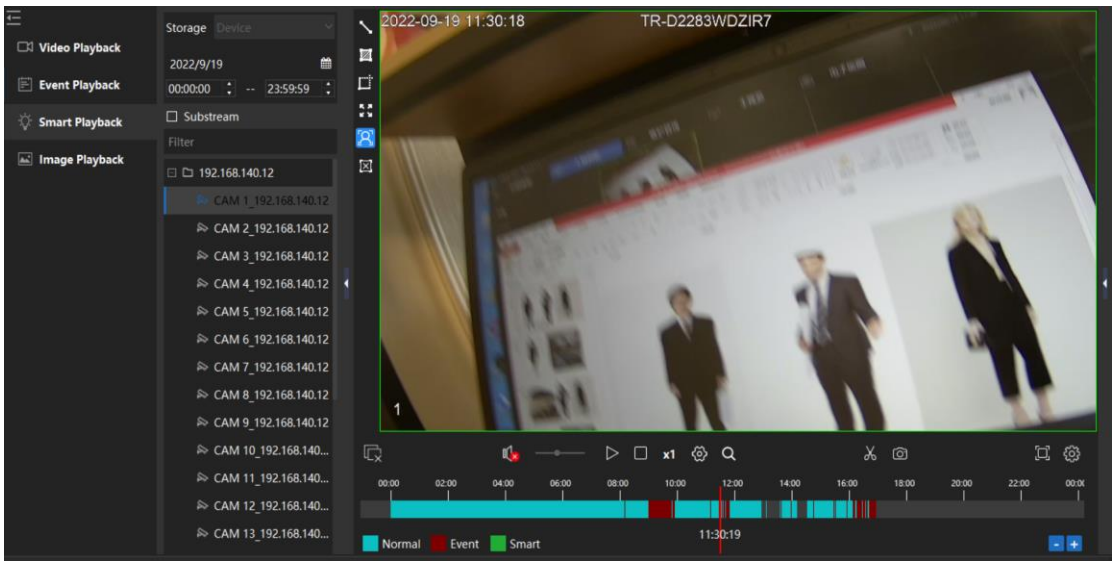
Perform this task when you need to search video file by camera or group for event playback.

Steps

Note

Only support the cameras which enabled Smart Detection Video record.

1. Click to enter the Playback interface.
2. Select the **Smart Playback** .
3. Select **Storage source**.
   Device:will search and get the video from Device HDDs, MicroSD/SDHC cards
   Storage Server: will search and get the video from Storage Server
4. Select the date, start and end time which you want to search and playback.
5. **Optional**: Enable **Substream**-will search the substream video
   Disable **Substream**-will search the mainstream video.
6. Select the Chanel you want to playback and double click it to play the video
7. Choose a smart search type, support **Draw Line**、**Draw region**、**Motion detection-Draw rectangle**、**Motion detection-Full Screen**、**Face Search**
8. Click Search
9. The video will be searched and played.

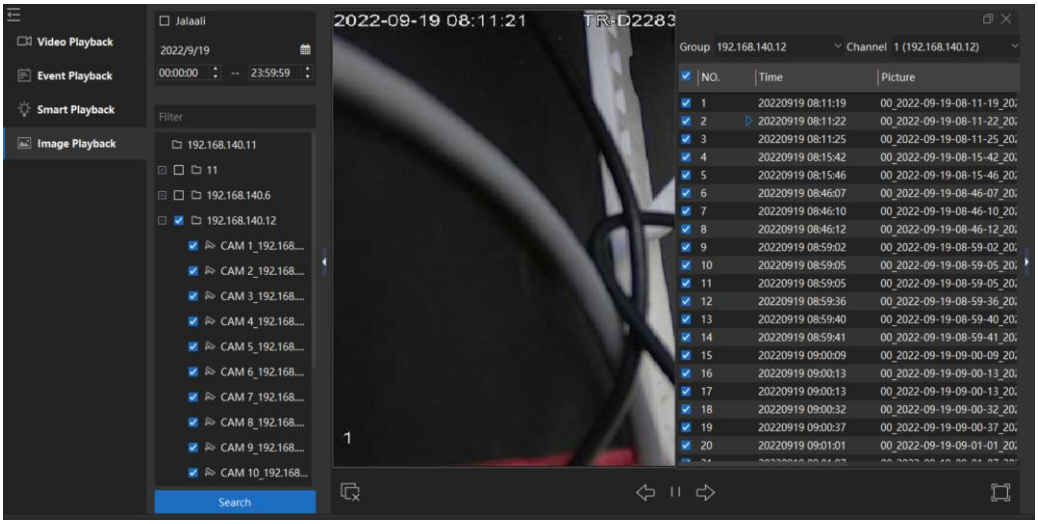


9.5 Image Playback

Perform this task when you need to search event image by camera or group.

Steps

1. Click to enter the Playback interface.
2. Select the **Image Playback** .
3. Select the date, start and end time which you want to search.
4. Select the Device/Cameras you want to Search
5. Click **Search**
6. Right side will pop up an window about the Events Image that be found.
7. Choose the Event Images and click Play.



10 Event Alarm

10.1 Device Event Alarm Configure

Please configure the Device Event server, assign device event server and set trigger process that client software could receive the event notifications.

10.1.1 Active Event Server

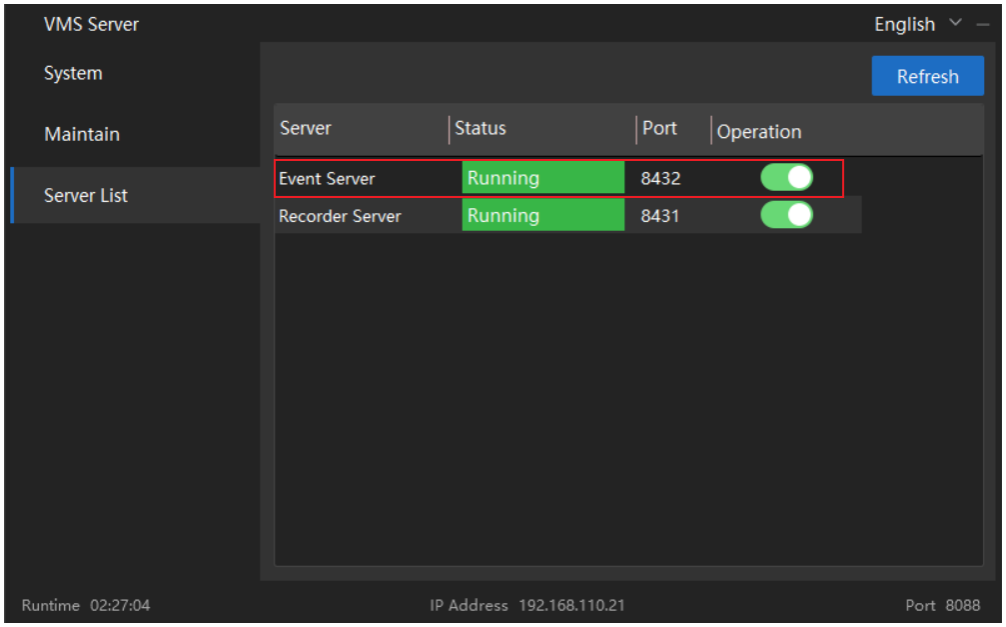
Perform this task when you need to active storage server.

Steps

1. Perform one of the following operations to active Storage Server

   - 1）Right click the VMS Server Icon in mission board ,choose settings

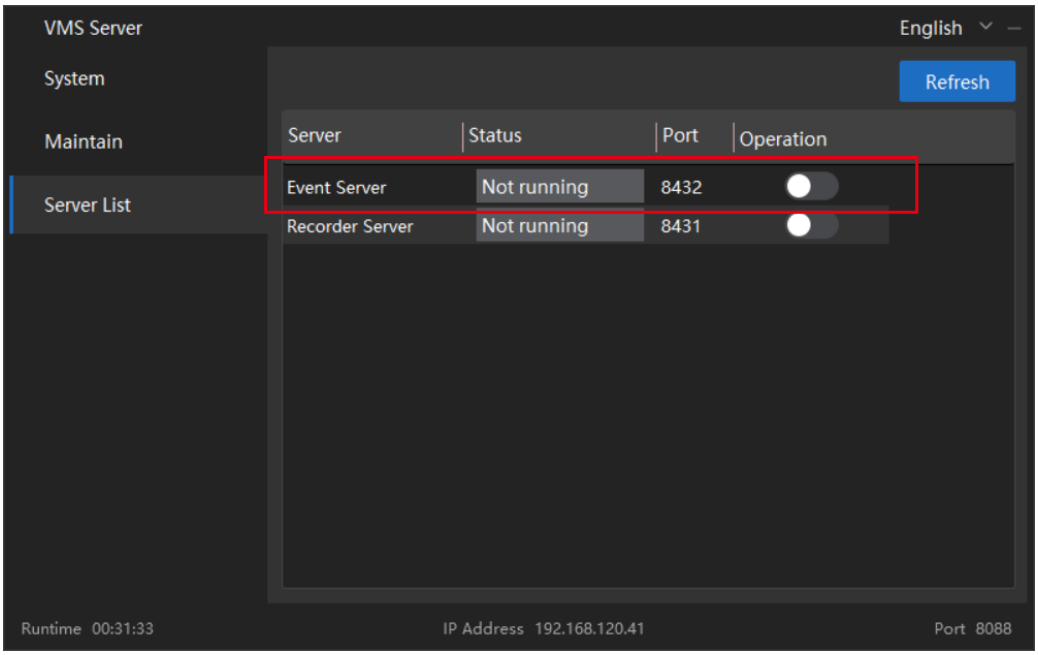
     3）Click **Server List**, enable **Recorder Server**
   - Open the Event Server as shown below



Event Server

Note

You can also record the video files on the Storage Server installed on another PC.



10.1.2 Add Event Server

Before you start

Please confirm the Event server was actived.

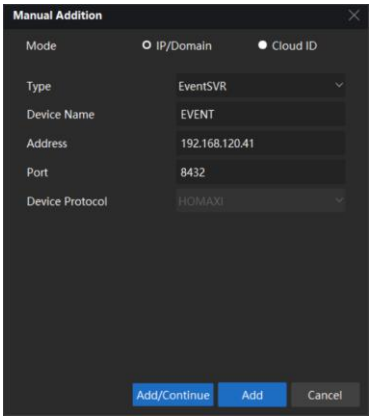
Perform this task when you need to add Event Server.

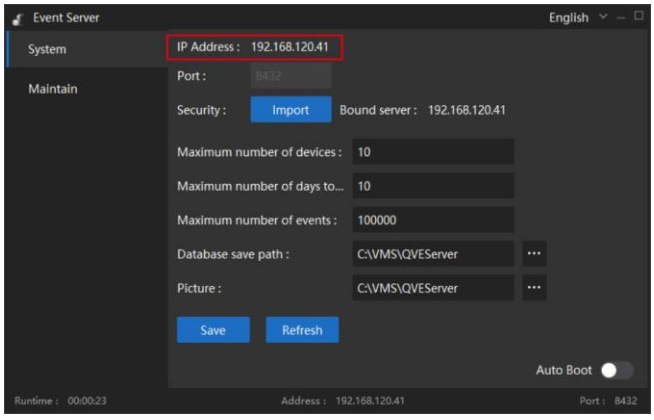
Steps

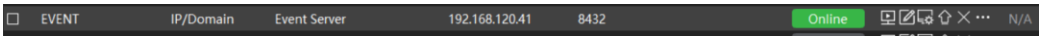
1. Go to **Maintain**-**Device**, click Add to add the Event Server to device list.
2. **Type** choose the **EventSVR**, set the **Device Name**,Input the **Event Server IP address**
3. Click **Add**.
4. After added, you will see the Event Server was added and Online in device list.

Note

Please check the Event Server IP address from the Event Server Service.







10.1.3 Assign Event Server for Devices

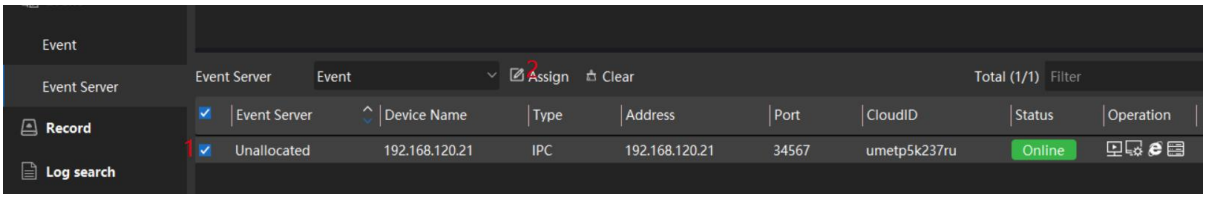
Before you start

Confirm the Event Server was added to the Device list and shows online.

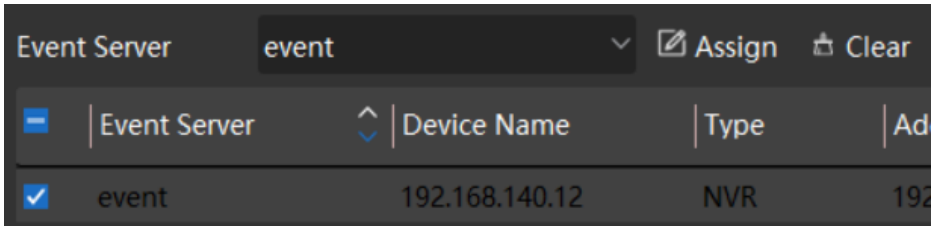
Perform this task to assign Event Server for devices.

Steps

1. Go to **Maintain**-**Event**-**Event Server** , select the device,
2. Click the **Assign** ,the device event server assigned.
3. After assigned the event server, that VMS Client could receive the Event when the device alarm triggered.



Assigned



10.1.4 Event Notification Configure

You can configure the device Event Process on VMS

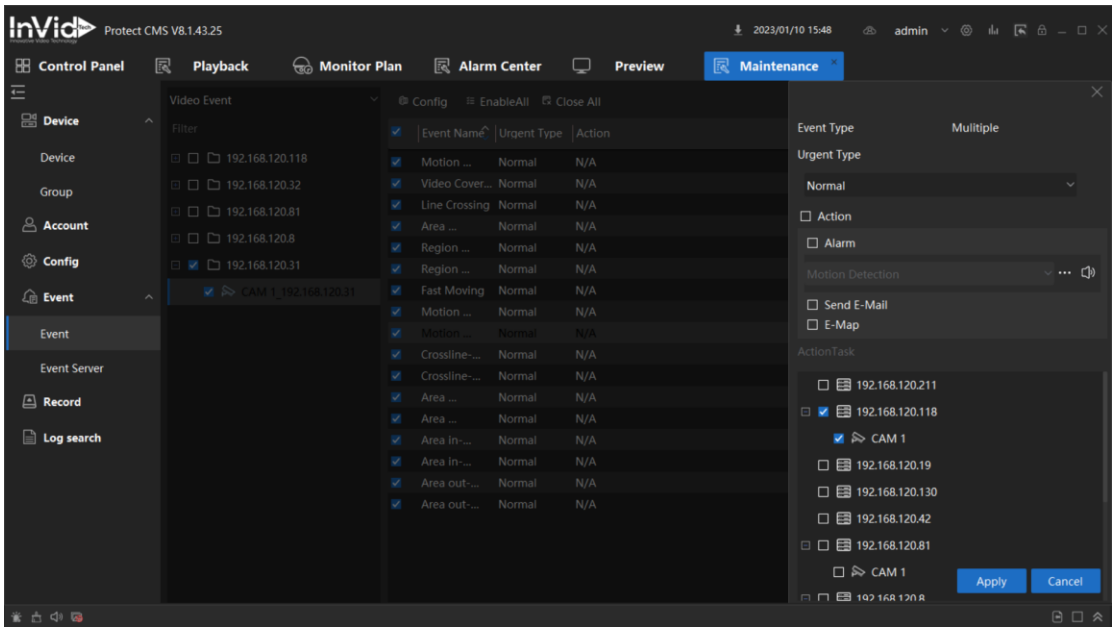
Perform this task when you need to receive the notifications from device on VMS.

Steps

1. Click **Maintain> Event** access the configure page
2. Choose the Channels you want configure
3. Select the Event Type(Video Lost/Video Shelter/Blurred detection Ect…) you want to configure.
4. Click **Config**,set the **Urgent Type**、Actions you want to set. Apply and Save the configuration.
   -**Urgent Type**:Normal, Important, Urgent, it will show on the event notification.
   -**Alarm**: It will play the alarm audio on PC, when event notification received.
   -Send Email: It will send the event notification as an email to the receiver set
   -E-map: It will flash the image on the E-map, when event notification happens.
5. Enable the **Event Type** that you want to get the notification.
6. Click **Save**

Note

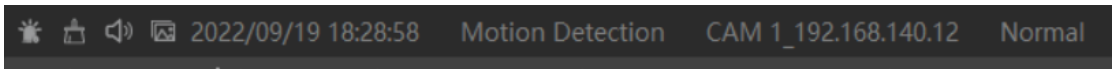
Actiontask channel, when Alarm event happens, VMS will pop-up the selected Actiontask Channels' window on the computer.

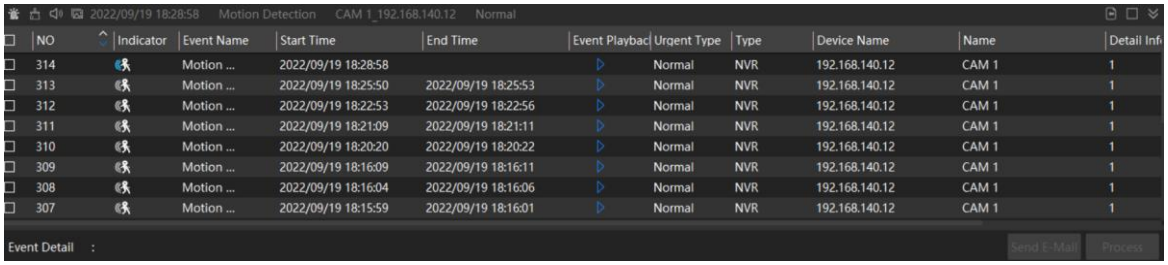


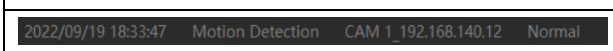
10.2 Alarm Center

10.2.1 Event Notification Quick Bar Introduce

When event notification happens, you will see the notification from the Quick Bar at the bottom of the VMS.





Icon	Description
	When alarm happens it will flash.
	Click to Clear all Alarm Events in the list.
	PC Alarm Audio Enable/Disable
	Pop-up window Enable/Disable
	Latest event notification information
	Notification Window Locked

	Go to Alarm Center
	Back to bar
	Expand Notification Bar

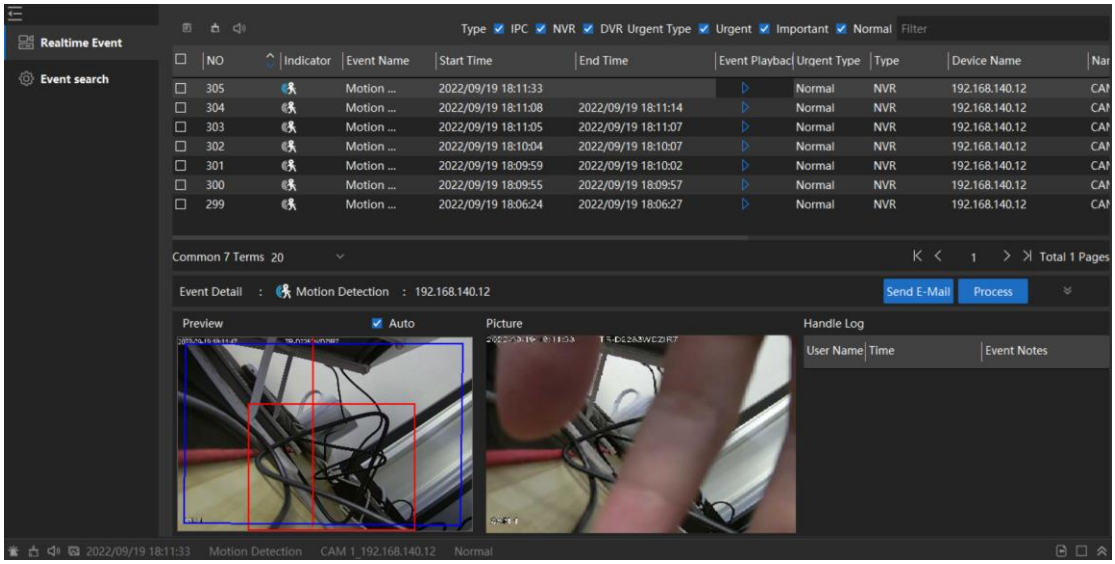
10.2.2 Check Real-time Event

If you configured the Device Event server, set the device alarm detection. When the Event Alarm happens, the Events will show on the Alarm center-Realtime Event list when alarm happens. Support to get the Event picture, Event video playback, Event channel pre-view in this interface.

Perform this task if you want to check Real-time Event.

Steps

1. Click **Alarm Center**
2. Click **Real-time Event**
3. When Event happens, The event list will show the Event detail information: Event Type,Start/End time,Urgent Type,Device name/ type,Channel name in real-time.
4. **Optional**: Event Playback-Click the to playback the event video.
5. **Optional**: Select the Event Type to filter the event you want to see on the real-time event.



Icon	Description
	Note on Events
	Clear Events
	Alarm Audio

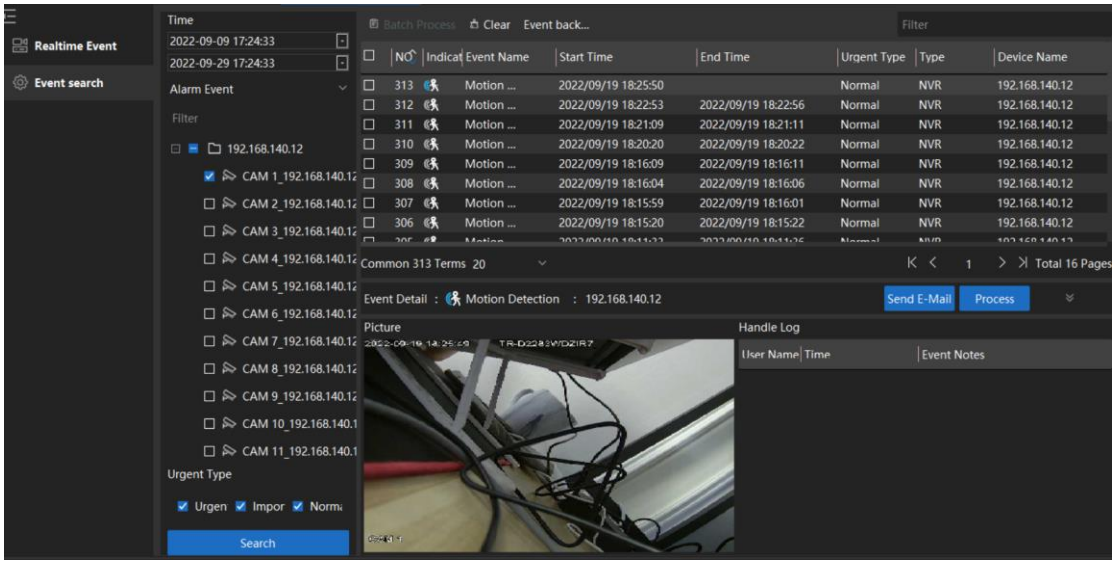
10.2.3 Search Event

Support to search the event from Event Server.

Perform this task to search the device Event notification.

Steps

1. Click **Alarm Center** ;
2. Click **Event Search;**
3. Set the **time**, choose the camera and select the Urgent type
4. Click **Search**, you will see the Event list
5. **Optional** :You can click the Event to check the event picture and other details



11 Account

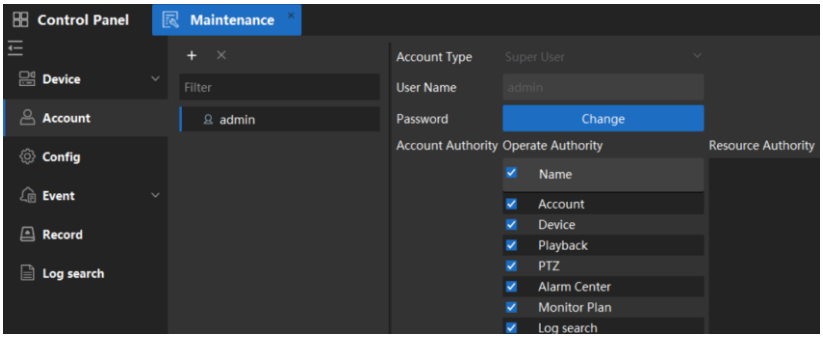
Support to control the user account and authority.

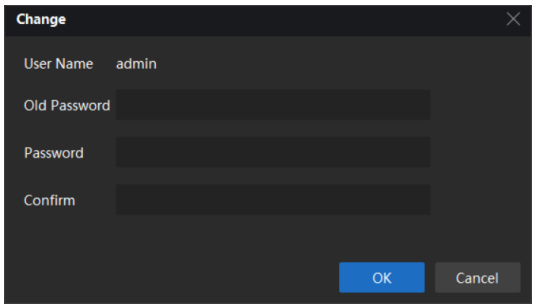
11.1 Modify Password

Perform this task to modify the VMS account user password.

Steps

1. Click **Maintenance**-**Account**-Select the account name
2. Click **Change** to change the admin account password.
3. Input the correct old password and set the new password
4. Click **OK**





11.2 Create Account and Authority Control

Perform this task to create account and authority control

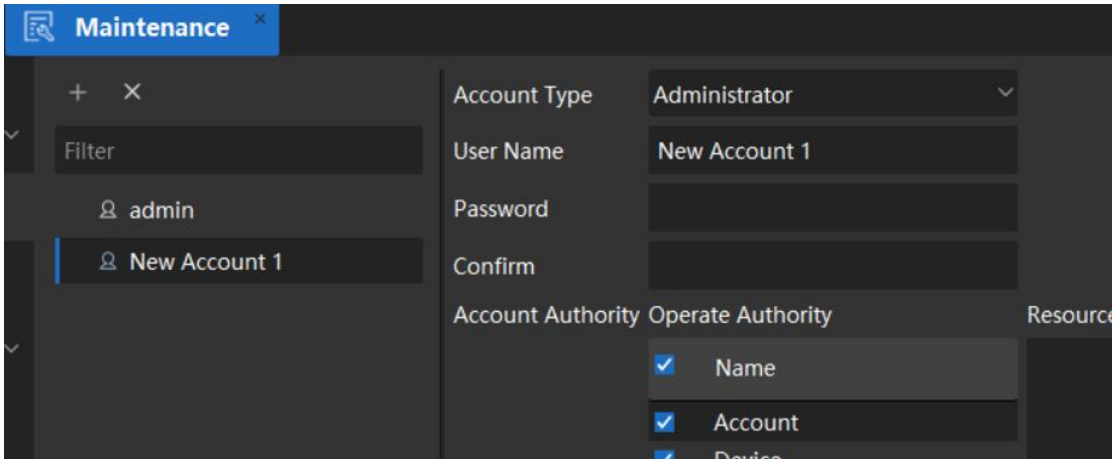
Steps

1. Click Maintenance-**Account**
2. Click **+** to create new account, select the Account type (Administrator/Operator),Password and select the Operate and Resource Authority.

Note

Resource Authority: support to choose the device /cameras and give the authority

3. Click '**Save**' to complete the account create.



12 System Configuration

12.1 System Configuration

12.1.1 Restore Last Status

Maintenance-Base-Restore Last Status

After enabled, VMS will restore VMS Last Status(Preview, windows);

12.1.2 Auto-run When PC boot

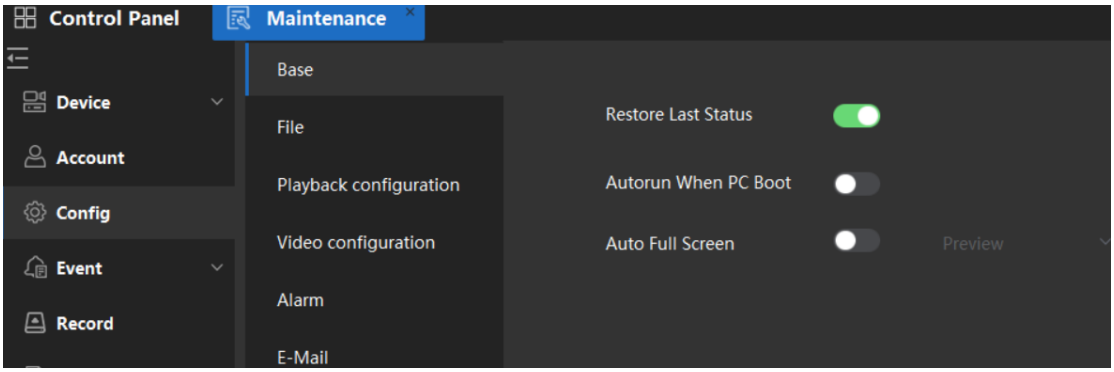
Base- Auto-run When PC boot

After enabled, VMS will running when PC boot;

12.1.3 Auto Full Screen

Maintenance-Base- Auto Full Screen

After enabled,when open the VMS ,VMS will open the preview with full screen automatically.



12.1.4 Modify File Saving Path

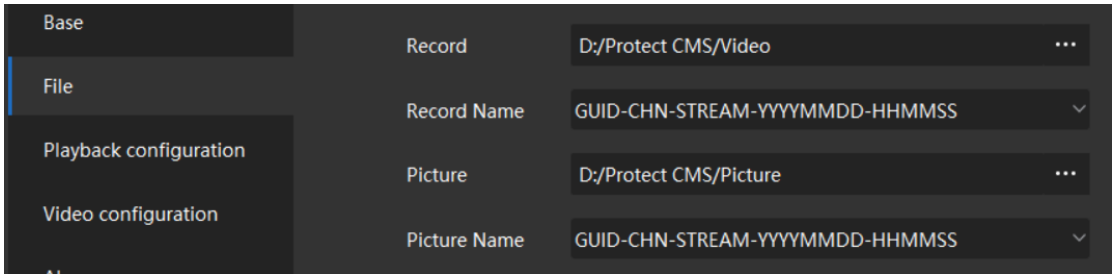
Maintenance-File-Record/Picture

Support to modify the Manual Record/Snapshot file save folder/path.

12.1.5 Record/Picture File Name

Maintenance-File-Record/Picture Name

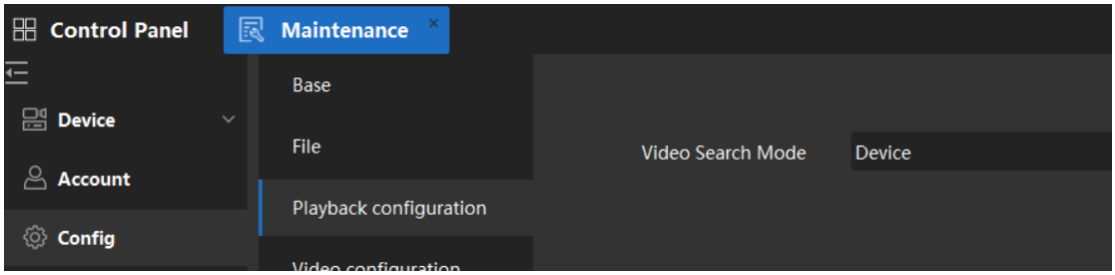
User can get the explanation the format of the file name.



12.1.6 **Playback Source** Configuration

Maintenance-Playback configuration

You can choose the Playback default mode: Device/Storage Server



12.1.7 **Video** download **file format and display Configuration**

Maintenance-Video configuration

1. Support to modify the video download format : dav,mp4,avi.
2. Support to modify the Snapshot format: JPEG,BMP
3. Support to modify the Display Scale:Adaptive,16:9,4:3,1:1
4. Support to set whether show the smart rules on the preview screen.

Note

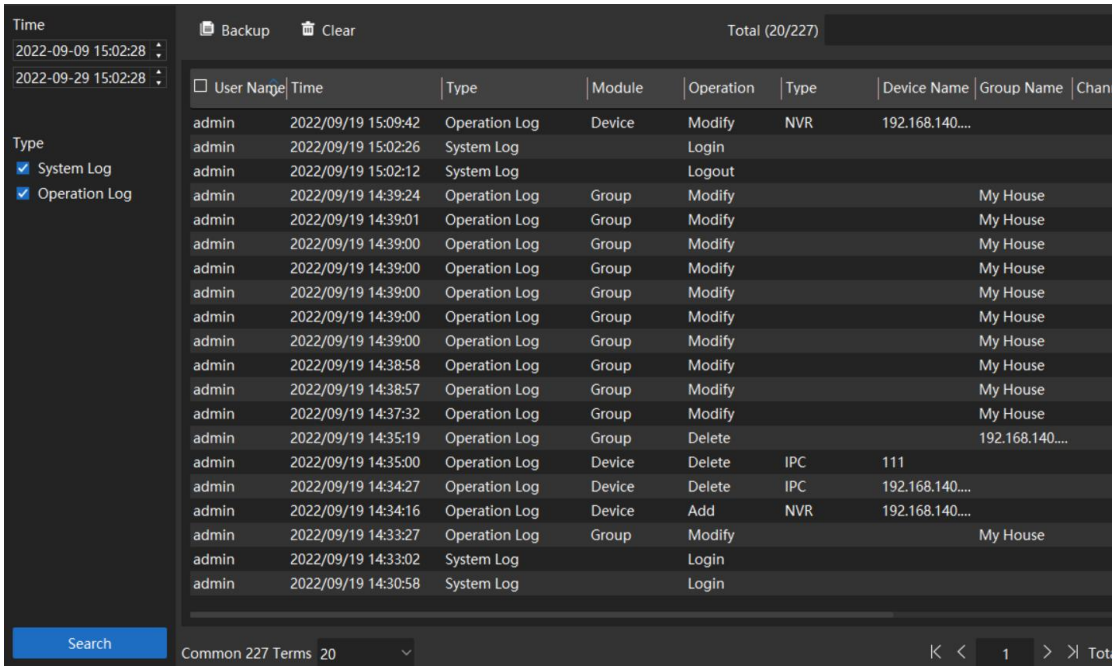
Smart Rules: It's the line ,circles set on the smart detection.

12.2 Log Search

Perform this task to search the VMS operation log

Steps

1. Click **Maintenance-Log Search**
2. Choose the **time period**, **Log Type**.
3. Click the **Search** to search the log.
4. **Optional**: - Select the logs and click to Back up
   - Select the logs and click to Clear the log.



12.3 Help Center

Click the **Help Center**, You will see the Tools>Player and Tip wizard>Device, Video

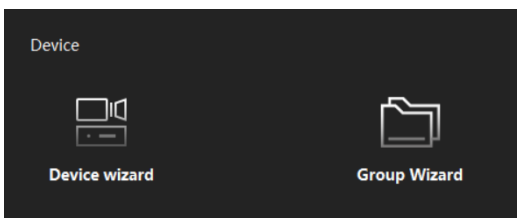
The player support you to play the downloaded videos .

Device>Device Wizard: It will lead you to the device add interface

Device>Group Wizard: It will lead you to the Group control interface

Video>Preview:It will lead you to the Preview interface

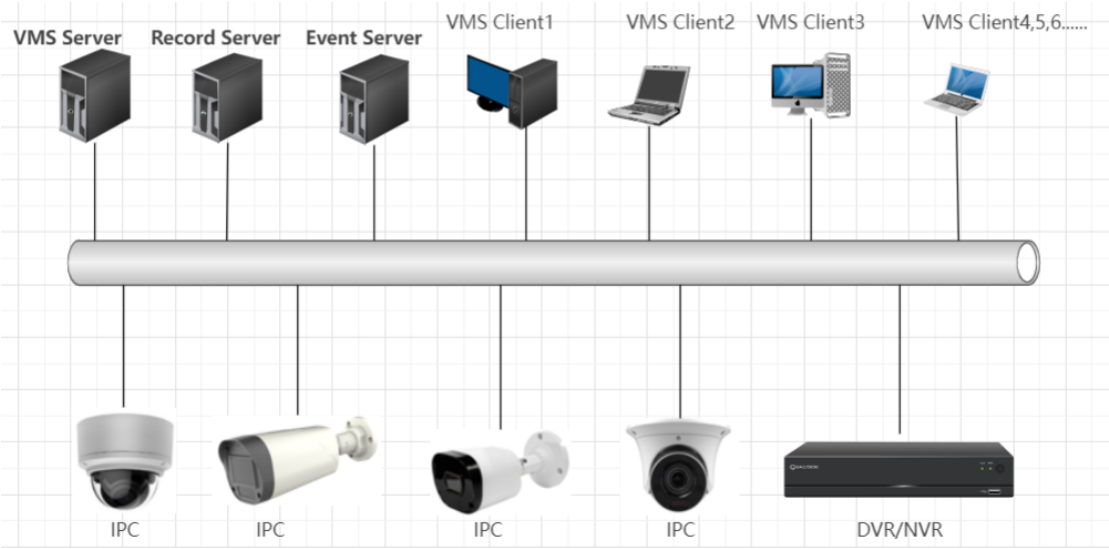
Video>Playback: It will lead you to the Playback interface



13 Advanced Module

13.1 Advanced Deployment Mode

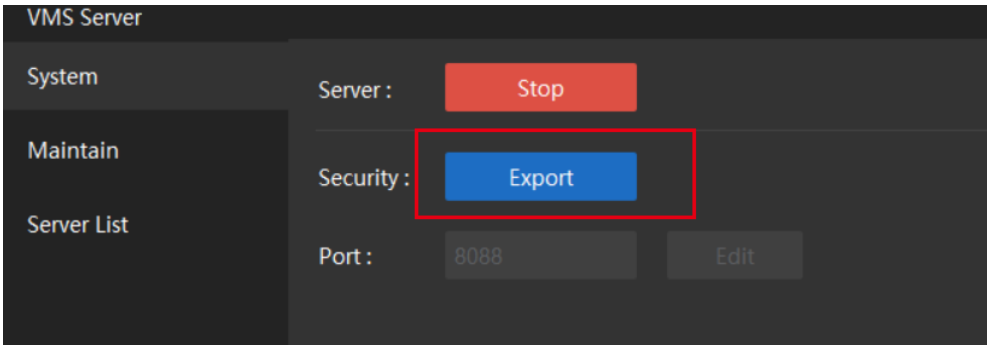
Support deploy the VMS Server, Recorder Server, Event Server in different computer. Show as the following picture.



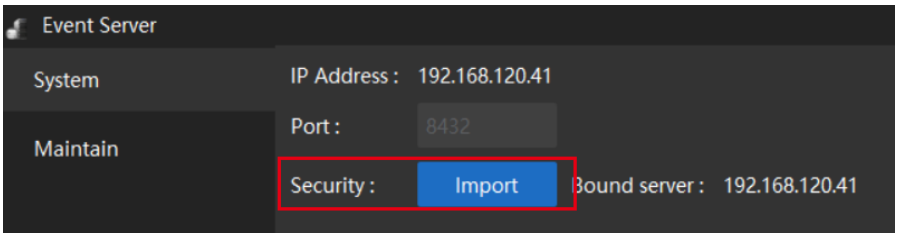
Perform this task to deploy the VMS Server, Recorder Server, Event Server in different computer.

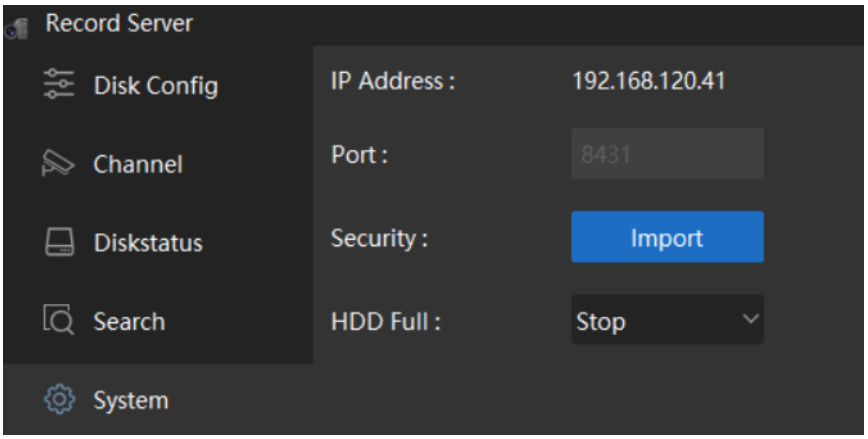
Steps

1. Open the VMS server from the mission board
2. Click **System**- **Export** the security certificate file



3. Copy the **security certificate file** to the computers which deploy the Recorder Server, Event server.
4. Open the **Recorder/Event Server** from the mission board
5. Click **System-Security- Import** the security certificate file.
6. After Imported, You will see the bound server address will be same of the VMS server IP address, means bind success.





After imported, the Event and Record server will bind with the VMS server.

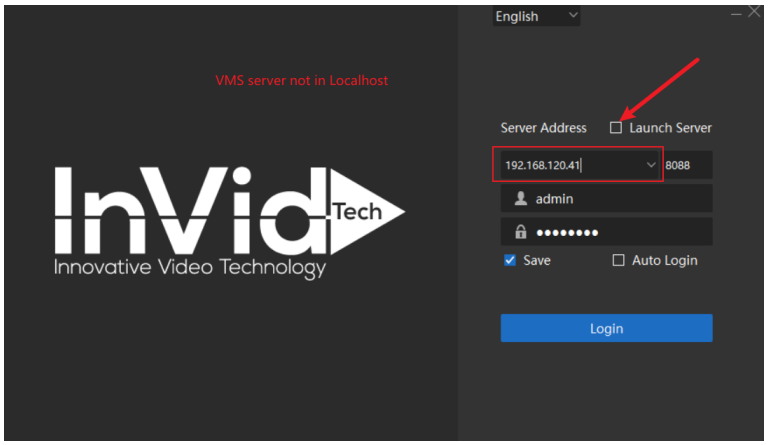
After bond, the users could login the VMS client and access the different IP Event/Record Server.

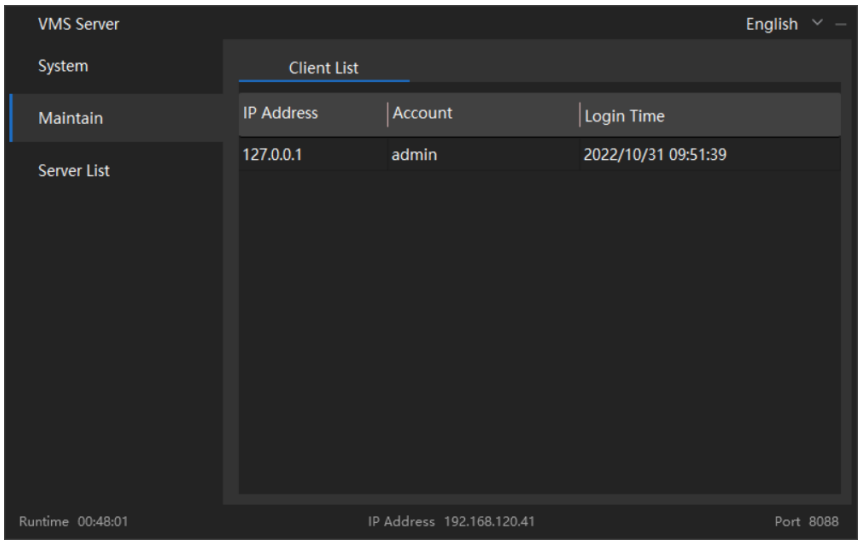
7. Login VMS Client

1) Double click the VMS Client icon,
2) Input the VMS Server IP address, and disable the Launch Server. Input the user name and password then click Login.

8. Optional: Check the VMS Online user list.

1) Open the VMS Server from mission board
2) Click Maintain-Client List, you will see the Online user list.





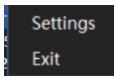
13.2 Configure the VMS Server

Perform this task to configure the VMS Server,

Steps

Double click the VMS Server

, and VMS server service will running.

Right click the VMS Server Icon in mission board ,choose settings 

You will see

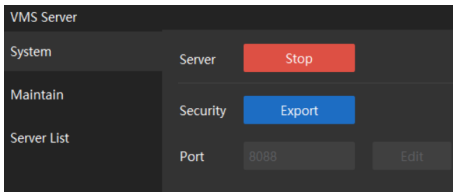
System >Support **Stop** the VMS Server

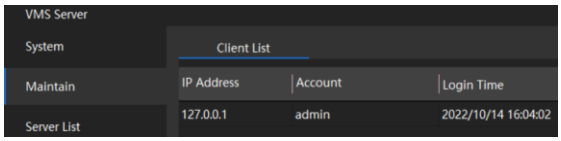
>Support **Export** the Server Security Certificate.

>Support **Edit** the VMS server port. *Stop the server, then edit it and save it.

Maintain> It will show the client list which login and connect the VMS server.

Server List> You can enable the Event server and Recorder server. After enabled , you will see the Event Server, Recorder Server running on the mission board also.





13.3 Configure the Event Server

Perform this tasks to configure the Event Server,

Steps

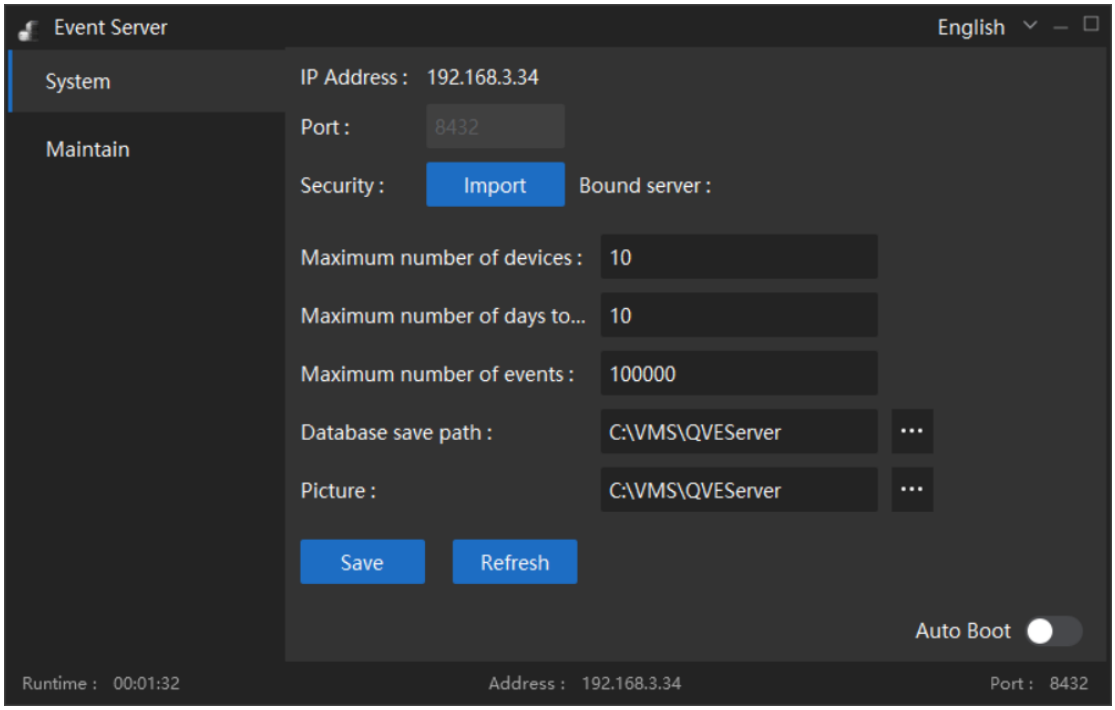
Right click the Event Server Icon in mission board , choose settings

You will see

System> Support to import the Security Certificate from VMS server and bind the VMS server.

>Support edit the other settings.

Maintain> It will show the device list which using the Event Server.



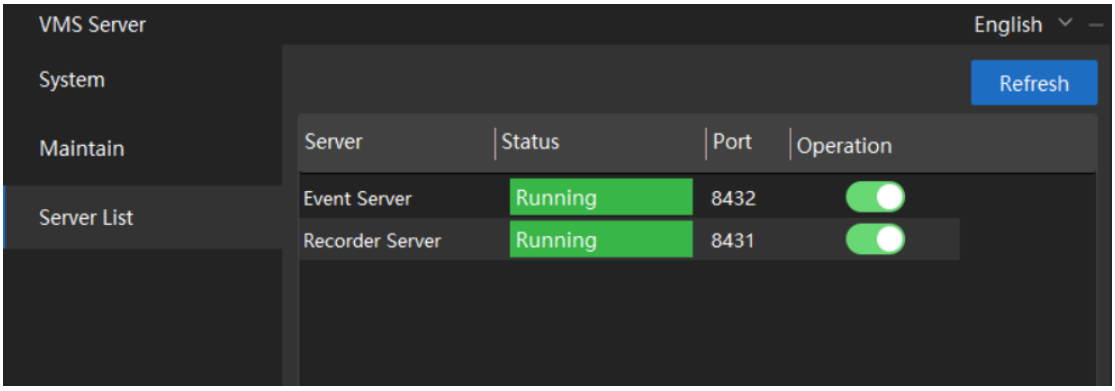
13.4 Configure the Storage Server

13.4.1 Active Storage Server

Perform this task when you need to active storage server.

Steps

1. Perform one of the following operations to run the Storage Server.
   - 1）Right click the VMS Server Icon in mission board ,choose settings
     2）Click **Server List**, enable **Recorder Server**
   - Open the Event Server as shown below



Recorder Server

Note

You can also record the video files on the Storage Server installed on another PC.

13.4.2 Initialize Storage Server

You should initialize the storage server for the video file storage.
Perform this task to initialize storage server.

Steps

1. Right click the Recorder Server from mission board access the **Record Server** setting Page.
2. Click **Disk Config**, Select the disk and click the **Initialize** the record disk. After Initialized, that VMS could record the video at Record server.

Note

The Initialization will not format the HDD

3. **Optional**:

Channel- It will show the recording channel information.
Diskstatus- It will show the computer disk status
Search- Support to search the channel recording status
System- Support to check the IP address and port, Support import the security certificate to bind the VMS Server.

Note

Security certificate used for when Recorder Server install on another PC.
If you want to know how to use the running Recorder Server on another PC, please refer to

13.4.3 Add Storage Server to Client

You can add storage server to the client for storing the video and pictures of the added encoding devices.

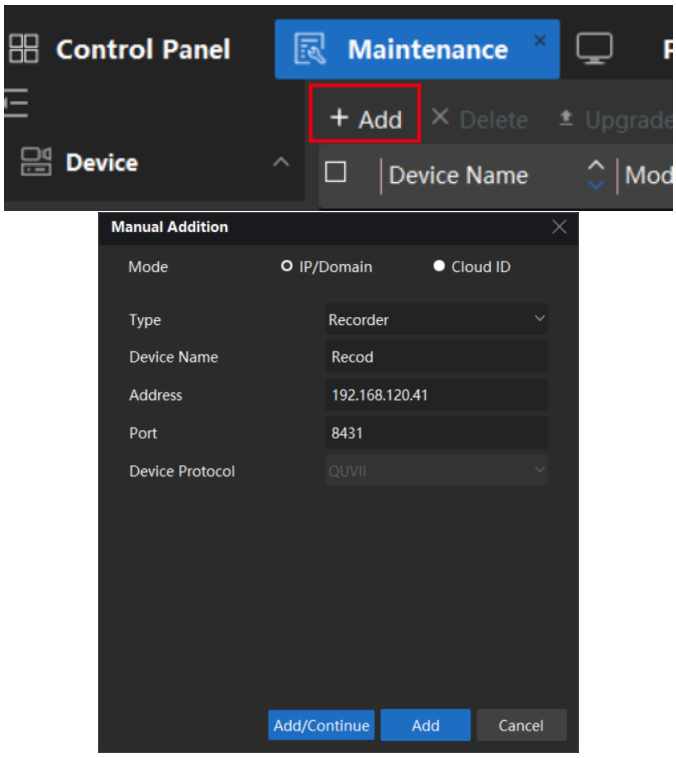
Perform this task when you need to add storage server.

Steps

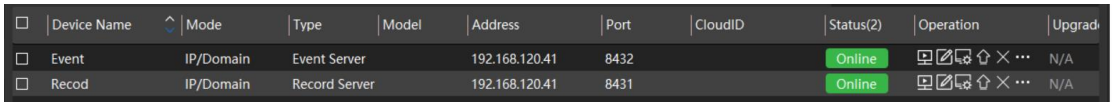
1. Go to **Maintain**-**Device**, click **Add** to add the Recorder Server to device list.
2. **Type** choose the Recorder, set the Device Name, Input the Recorder Server IP address ,then click Add.

Note

Please check the Recorder Server IP address from the Recorder Server Service.



3. After added, you will see the Recorder Server was added and Online.



13.4.4 Configure Storage Settings

When the storage server is available, you can set the recording schedule or capture schedule for the cameras.

Before You Start

The newly installed storage server need to be initialized.

Perform this task when you need to configure storage settings.

Steps

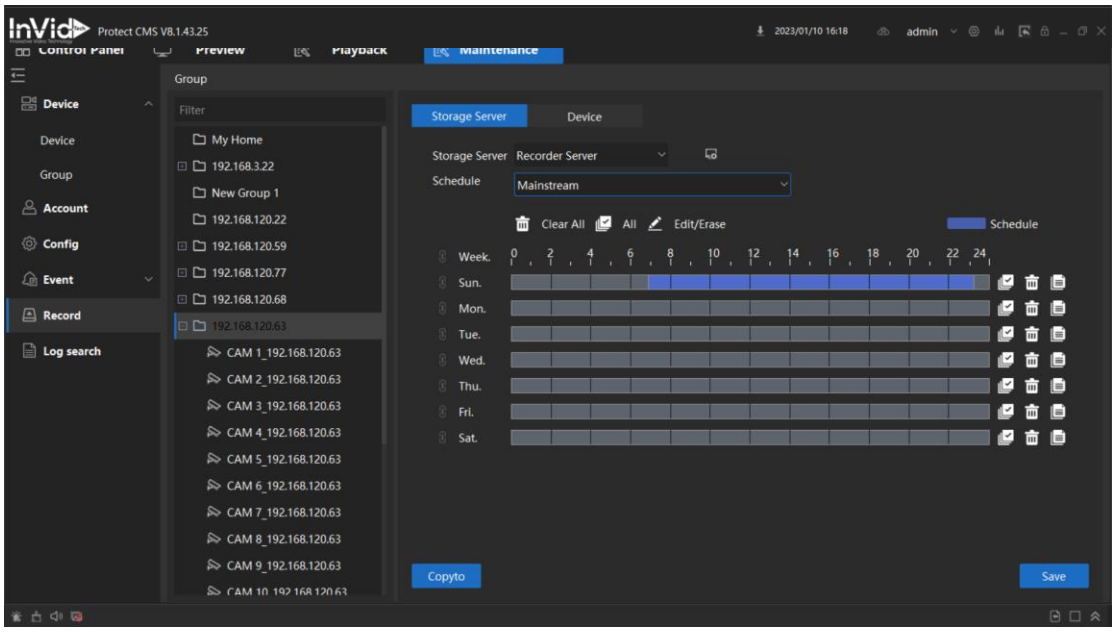
Note: Blue color marked is the scheduled time to record.

1. Open **Maintenance**-**Record**, Choose the device or channels from group.
2. Please confirm choose the **Storage Server**
3. Move the cursor on the schedule, click to choose the time to record.

Note

Blue color marked is the scheduled time to record.

4. **Optional**: support to choose the **Mainstream**/**Substream** to record.
5. Click **Save**



13.5 Set Monitor Plan to preview

Support to set the different Views/Channels and set schedules to play the live video on windows.

Task: In a view mode ,set the cameras play sequence in different window.

Plan:set the schedule to play the different tasks.

Create Monitor Task

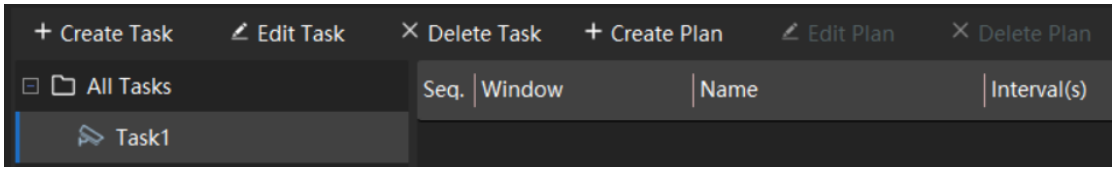
Perform this task to create and edit Monitor Task

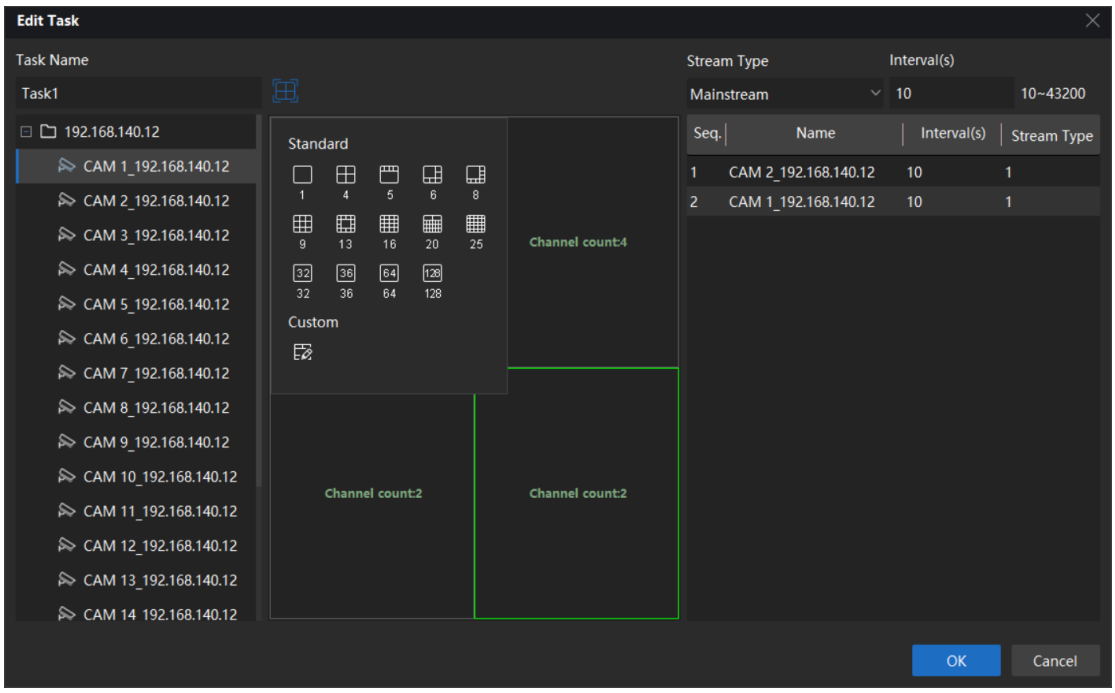
Steps

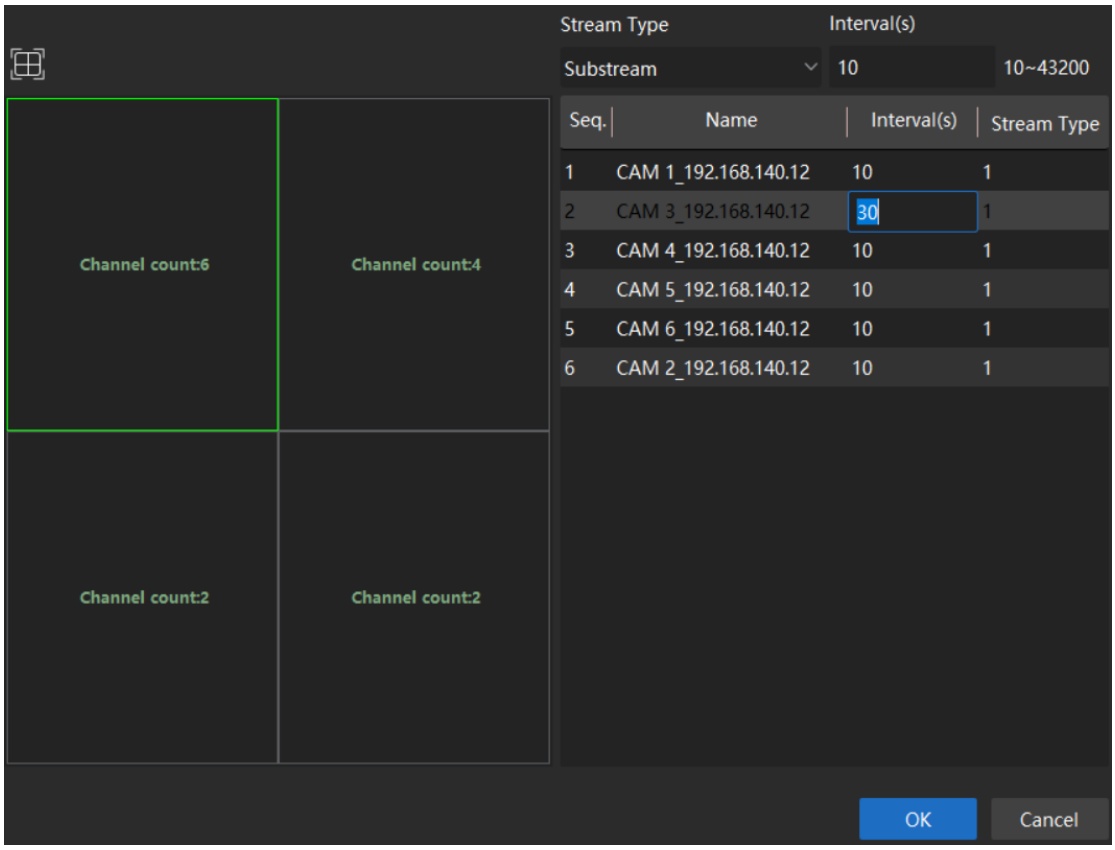
1. Click **Create Task** to create the Monitor Task.
2. Set the **Task name**, click to choose the monitor view mode type
3. Select a **window,** and double click the channel in the device list. You will see the channels will in the right task list as **sequence.**
4. Select the Channel in the right list. You can set the Interval time of each channels. Note:The time set is how long this channel lasts on window.

The video will play in the selected window as the sequence set.

5. Select another window and repeat the **Step 4&5** to set each window's task
6. Click **OK** to save the Monitor Task.







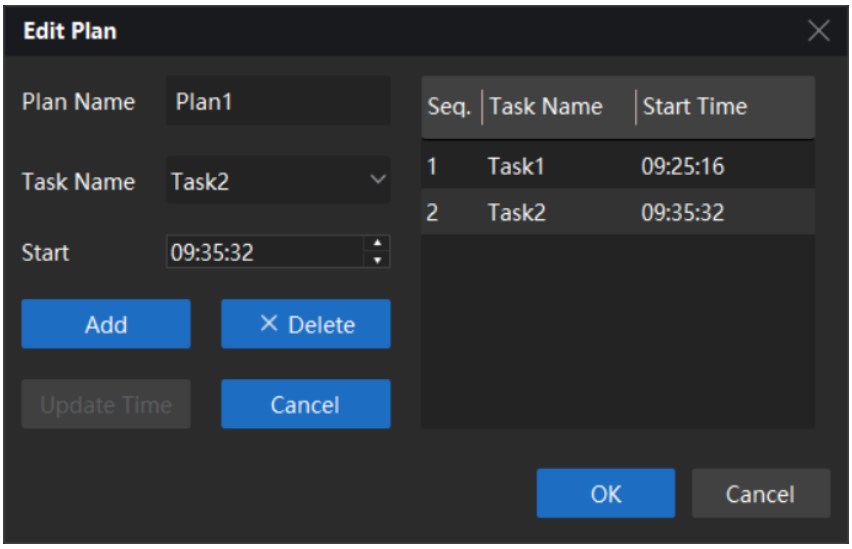
13.5.1 Create Monitor Schedule/Plan

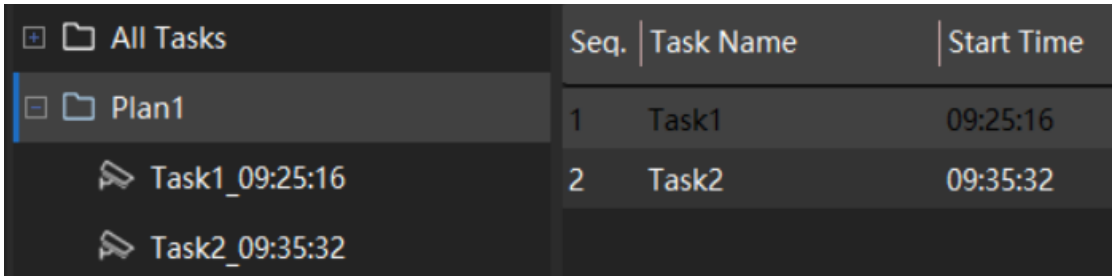
Perform this task to create and edit Monitor Schedule

Steps

1. Click **Create Plan** to create the **Monitor Plan**.

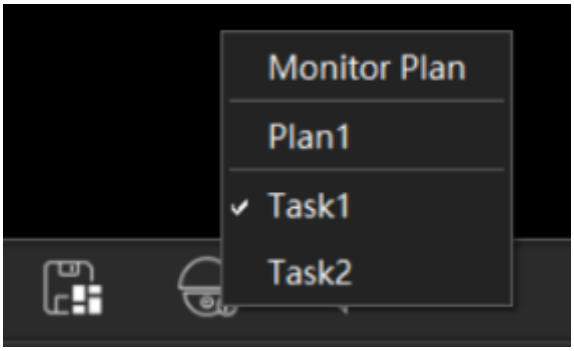
2. Set the **Plan name**, select the task and set the start time.
3. Click **Ok** the save the **Plan**.





13.5.2 Use the Monitor Plan on Preview interface

Click the Monition Plan, choose the Plan / Task you want to monitor. The preview window start to play the live video as the Plan/Task you set.



13.6 Auxiliary Screen Preview

Display the live video on different auxiliary screens for the convenient preview of multiple monitoring scenes.

Perform this task to display the live video on different auxiliary screens.

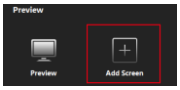
Note

Up to 3 auxiliary screens are supported.

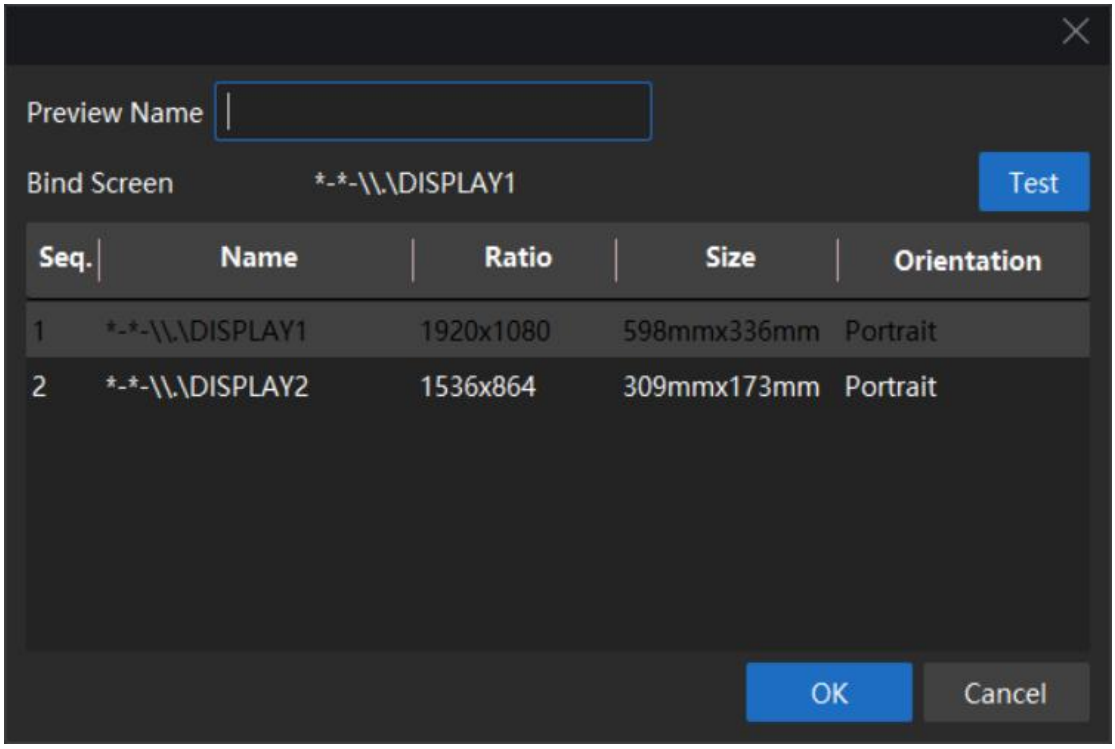
Before you start

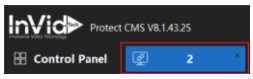
Please connect another screen/display to the PC you running the VMS

Steps

1. Click **Add Screen**, 

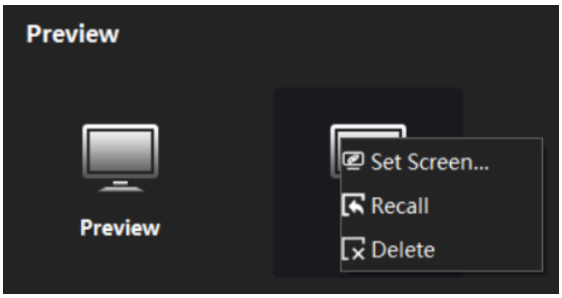
2. Select the added displayer item
3. Set the **Preview name**



4. Click **OK**
5. You will see the new Screen icon added on the **Control Panel**.
6. Click the new screen,then double click the new screens Tab 

You will see the new screen will display on the screen that be bond before.

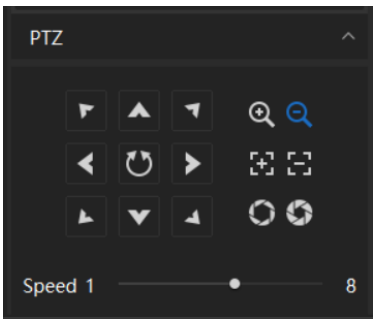
7. **Optional**:
   1) **Edit the added scree**n :Right click on the added screen,click **Set Screen,**support to edit the screen name and bond screen.
   2) **Recall screen**: Right click on the added screen,click **Recall,**support to recall the screen back to maincontrol panel.
   3) **Delete**: Right click on the added screen,click Delete,it will delete the screen.

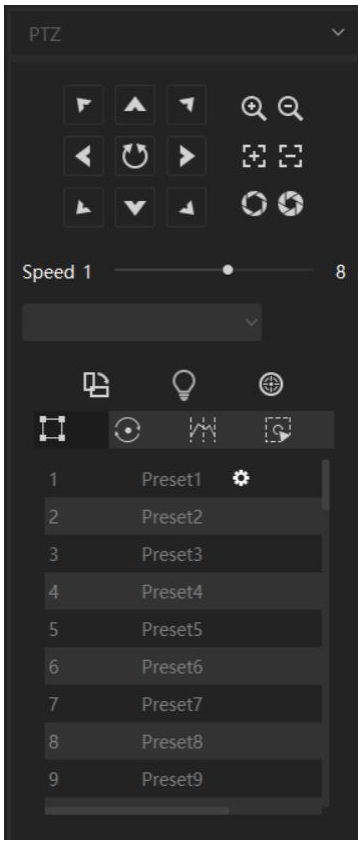


13.7 PTZ Control

The VMS provides PTZ control for cameras with pan/tilt/zoom functionality. During the PTZ full control panel, you can set preset, patrol, and pattern.

Click to expand the control panel get the PTZ full control Panel.





13.8 E-Map

Support to add an Image as Map, and place the cameras on the Map. Easy to control and monitor the device.

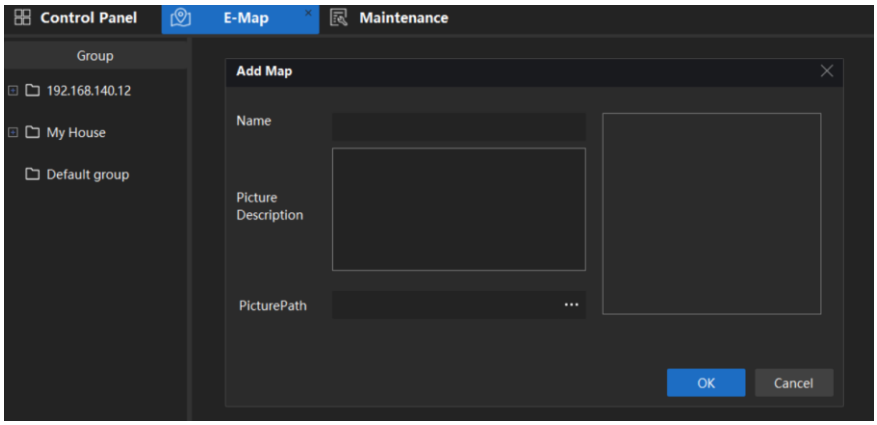
13.8.1 Set E-Map

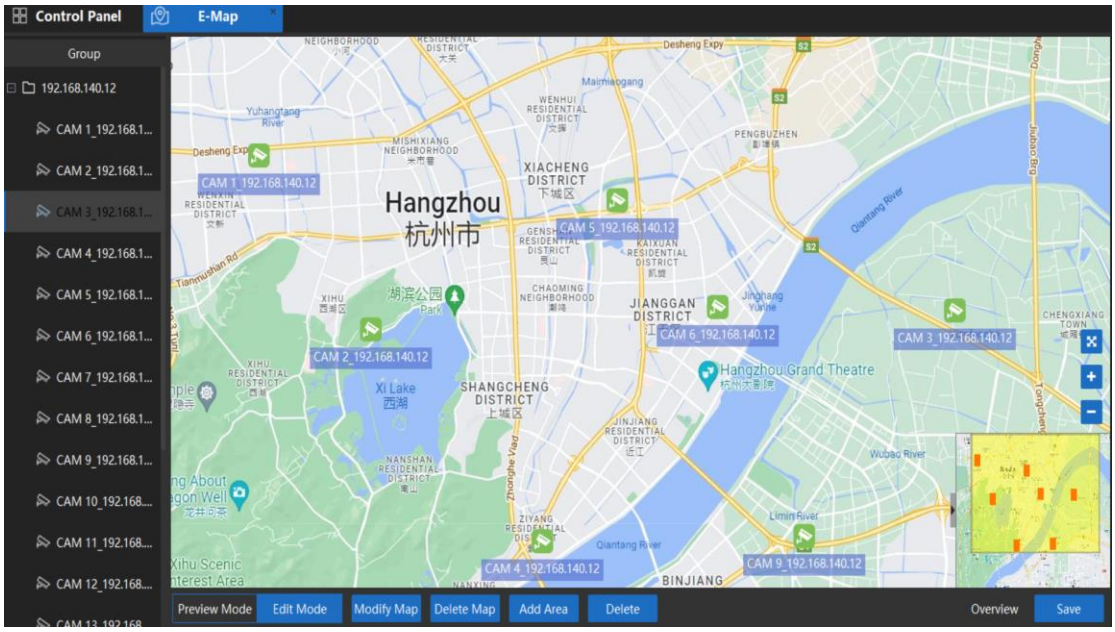
Support to set the cameras on E-Map for easy control.

Perform this task to create the **E-Map**

Steps

1. Click the **E-Map**
2. Set the map **Name**
3. Click the **PicturePath** to choose a picture as **E-Map**,Click **OK**
4. Click **Edit Mode** Choose the cameras from Device list
5. Drag the cameras to the position on the E-Map that you want to put.
6. Click **Save**.



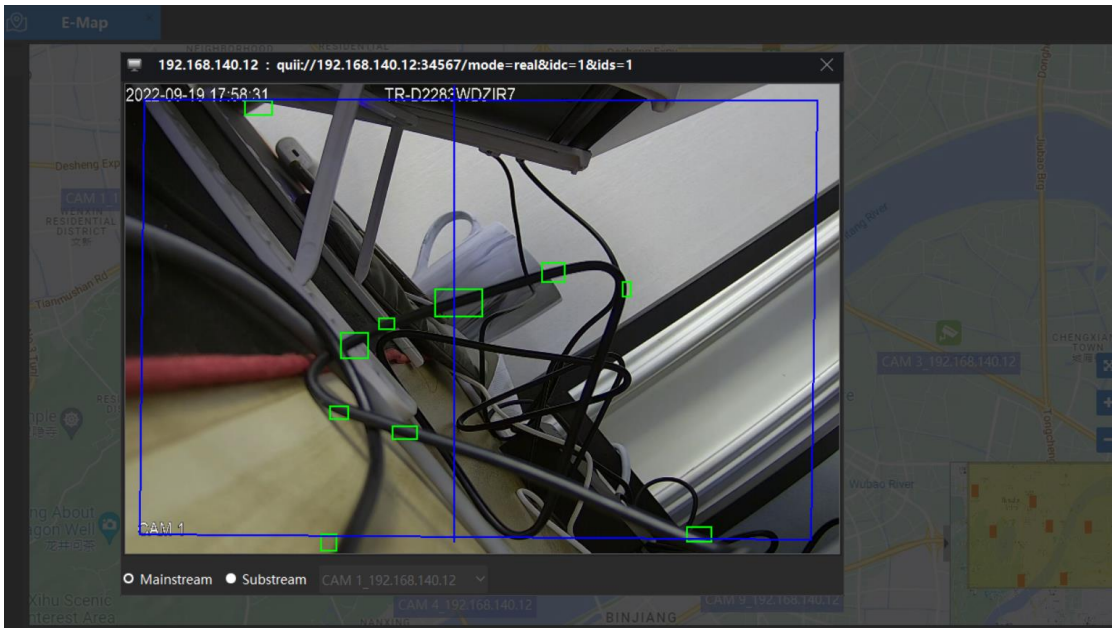


13.8.2 Live view on E-Map

Support to check the live video on the E-Map

Perform this task to check the live video on the E-Map

Steps

1. Click the **E-Map**

Click the Channel on E-Map, the Channel Live view will be shown on the window.