



DIGIEVER Central Management System

CMS- Client and CMS-Matrix

User Manual

Ver.C1.0.x.54



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Chapter 1: Overview

DIGIEVER CMS is an open platform solution to centrally manage surveillance systems at different sites in diverse vertical markets. Composed of two software components, CMS-Client and CMS-Matrix, DIGIEVER CMS can dramatically improve surveillance management in multiple sites especially for large-scale surveillance requirements to efficiently and effectively capture the recorded videos of incidents and to conduct the subsequent investigations.

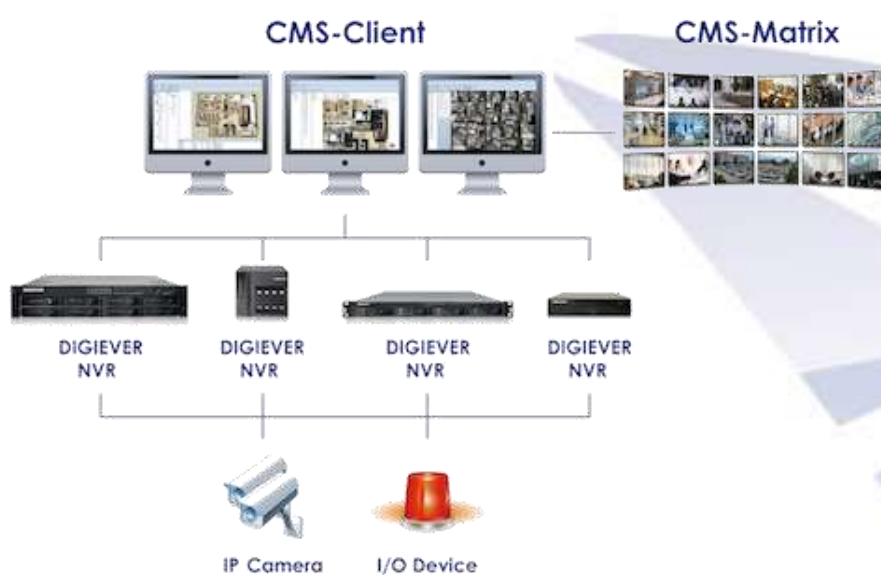
Intuitive Central Management Solution: CMS-Client

CMS-Client allows users to have a comprehensive overview of surveillance deployment with multi-layer dynamic E-Maps indicating camera physical locations. With smart event management, users can efficiently verify the event situation and location at the very first time to ensure the latest information of secured areas.

Simple and Efficient Video Wall Solution: CMS-Matrix

CMS-Matrix is designed for CMS-Client to simply monitor secured areas in multiple monitors around the world. After finishing the configuration from CMS-Client, users can start monitoring up to 1,024 channels of camera displaying on multiple monitors. With basic 36 free channels of CMS-Client, users can find out suitable solutions from DIGIEVER.

Chapter 2: System Architecture



Chapter 3: PC Hardware Requirement

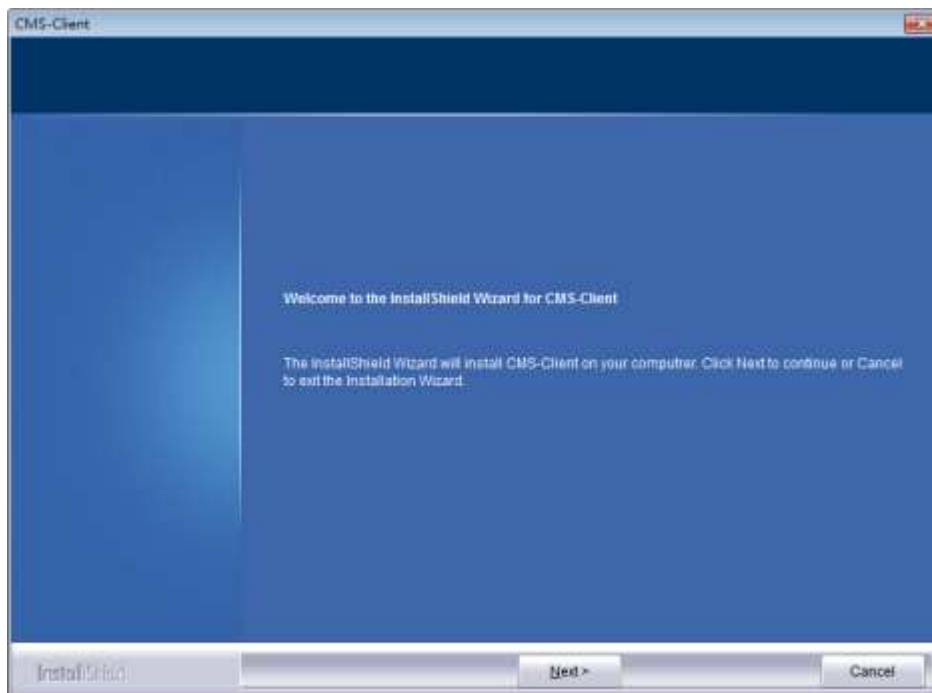
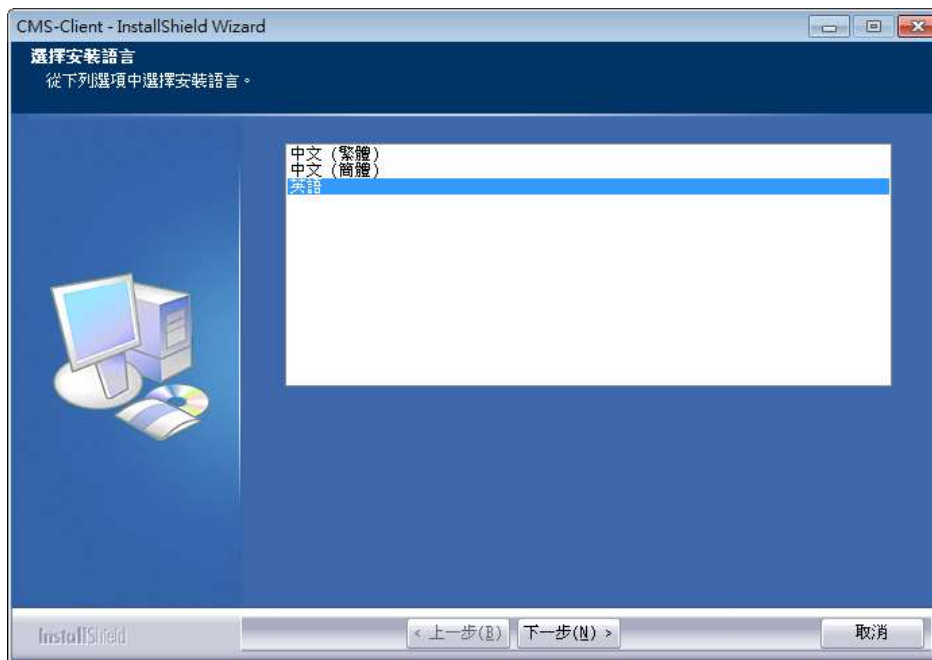
For best system performance, please make sure the computer that runs CMS-Client or CMS-Matrix meets at least the following requirements:

PC / Network Hardware Requirement for CMS-Client / CMS-Matrix	
CPU	Intel® Core i7 or higher
RAM	8 GB or above
Graphic Adapter	DirectX 9 compatible 1GB Memory or above
Network Interface Card	Ethernet, 1Gigabit is recommended
Operating System	Microsoft® Windows® 7/8 (32 bit/64bit) is recommended
Numbers of Monitors Support	Depends on availability at installed graphic adapter
Switch	Gigabit switch is highly recommended
Router (if necessary)	Gigabit router is highly recommended
Network Cable	Category 5e cable (CAT-5e) or Category 6 cable (CAT-6) is highly recommended for Gigabit Ethernet

Chapter 4: Software Installation

4.1 CMS-Client Installation

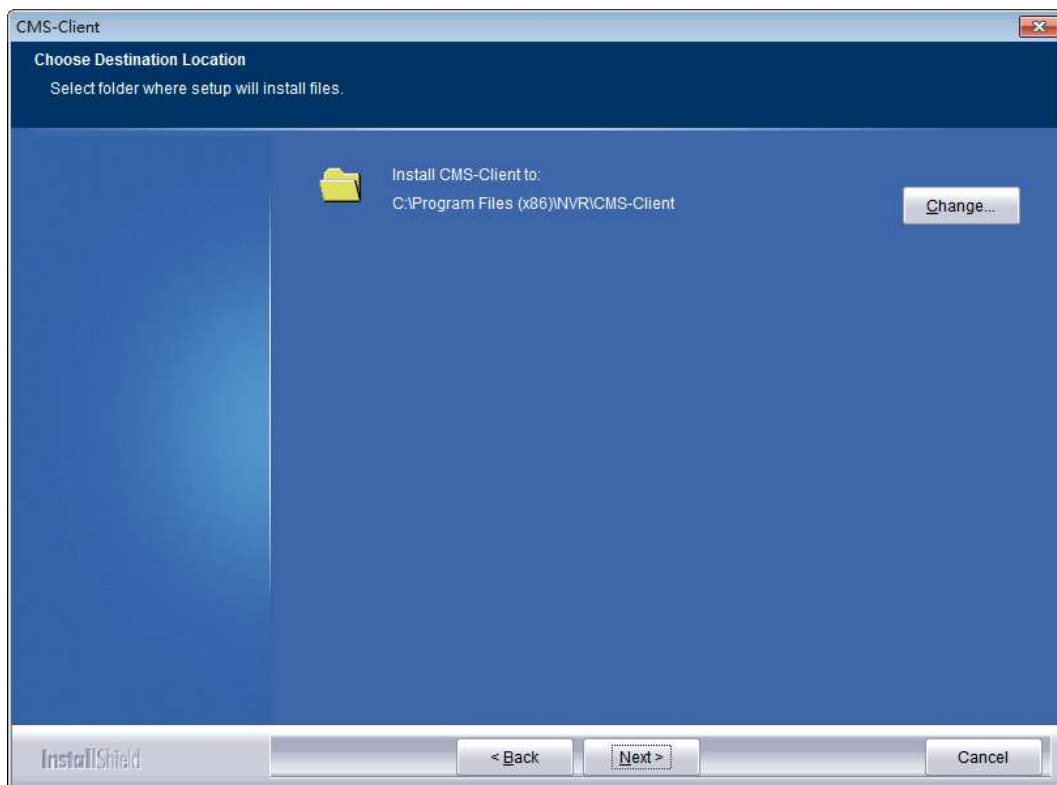
1. Download CMS-Client from DIGIEVER official website. Extract the zip file, and then click **CMS_Client.exe** to start the installation. Select the desired language for the software, then click **Next>** and follow the steps to install the software.



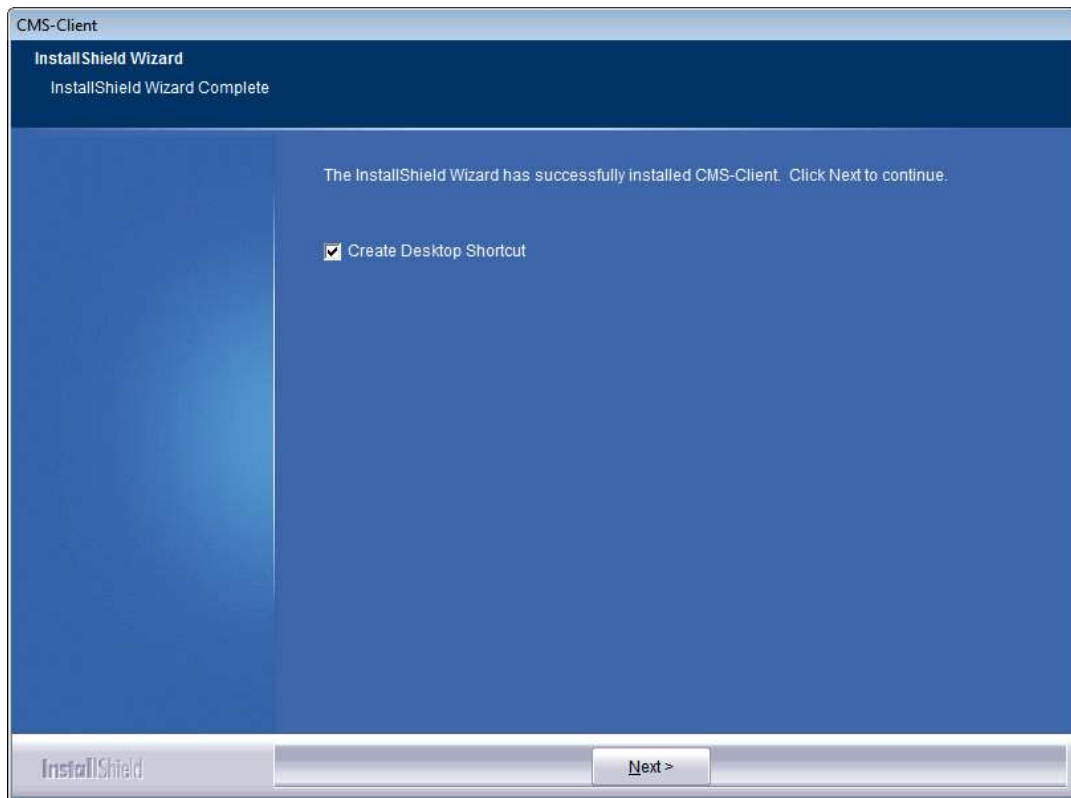
2. Read the End-User License Agreement, select the option “**I accept the terms of the license agreement,**” and click **Next>** to continue.



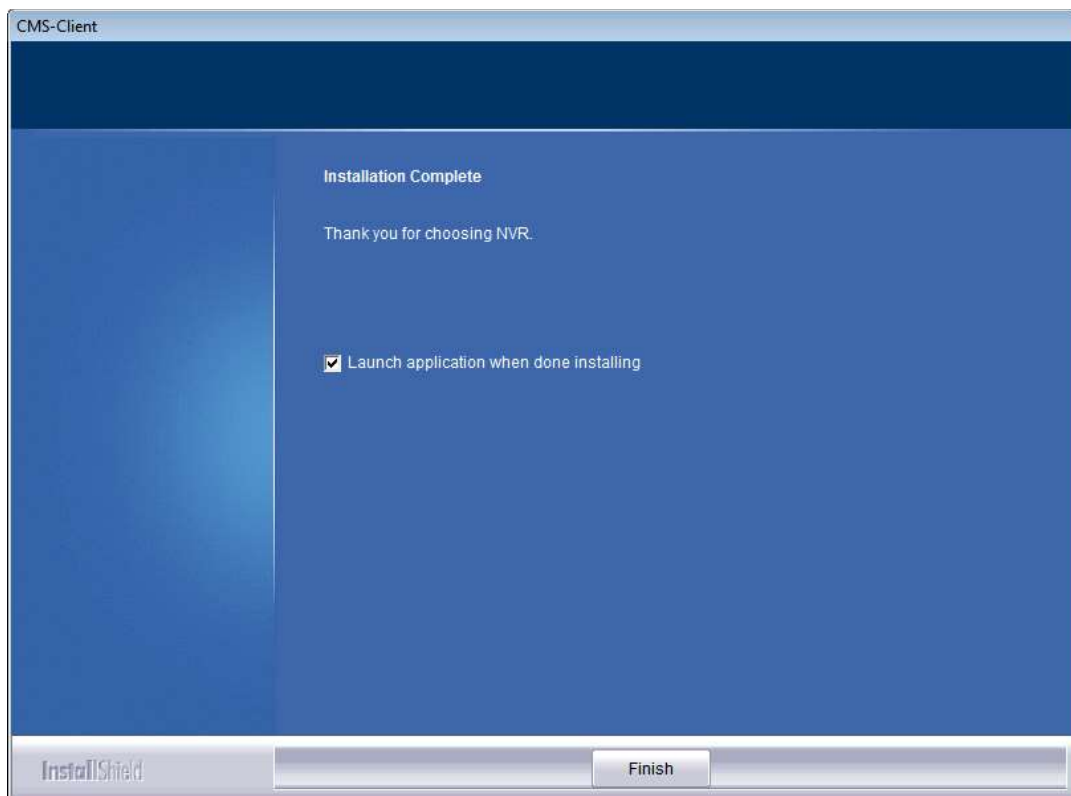
3. Click **Change** to change the folder in which the software files will be stored; then click **Next>** to continue.



4. Check the checkbox to have a desktop shortcut, then click **Next>** to continue.

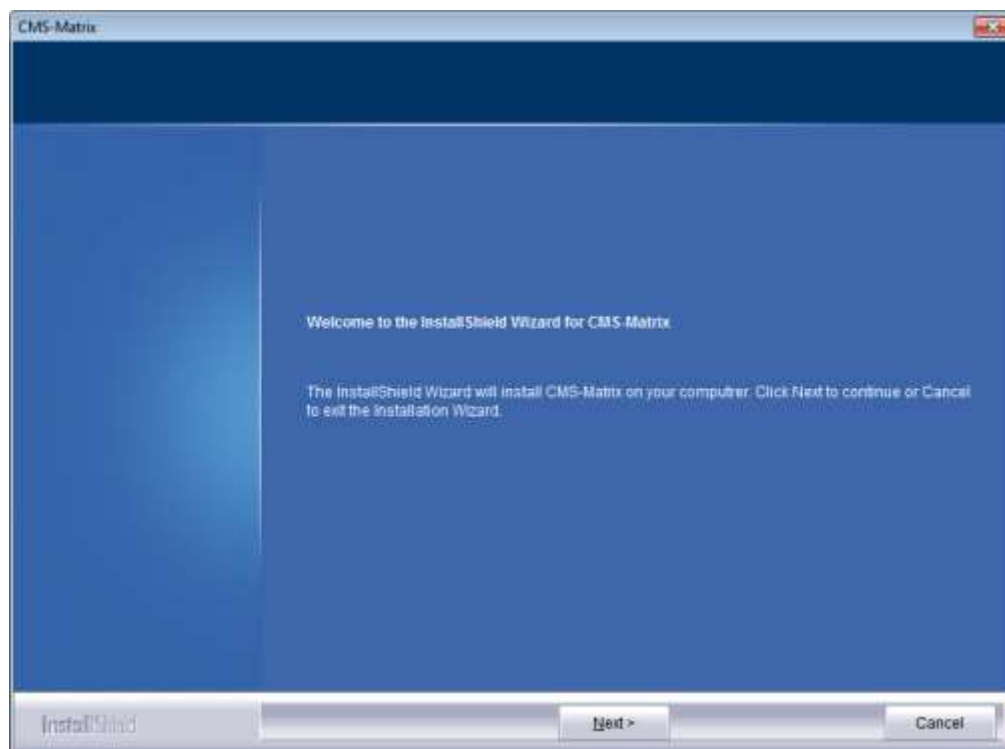
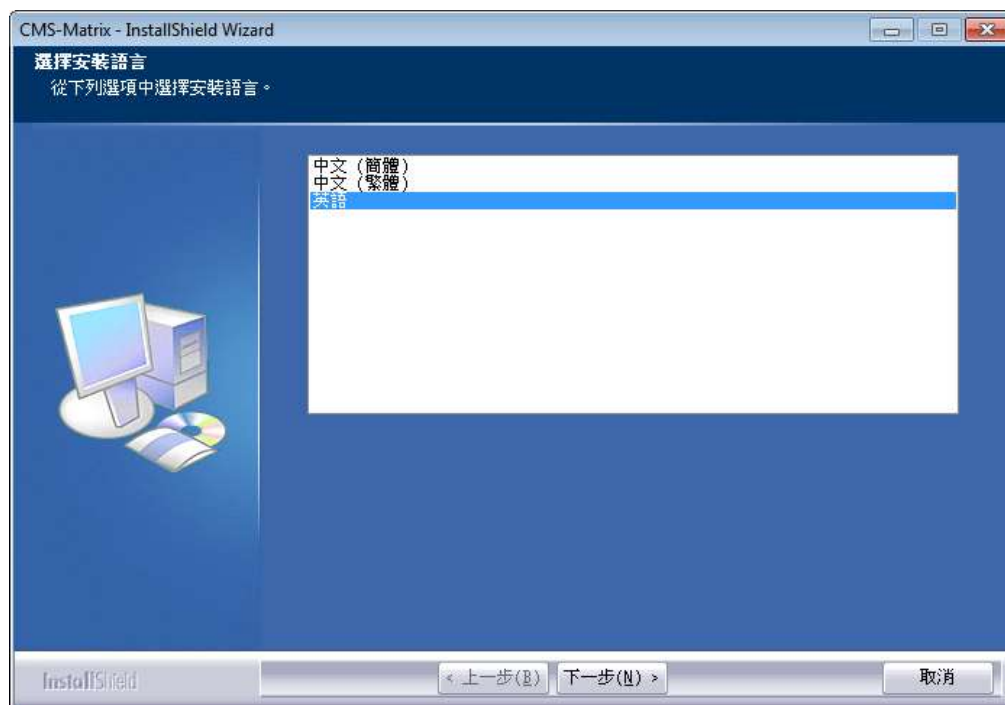


5. Check the checkbox to launch the application, and click **Finish** to complete the installation.



4.2 CMS-Matrix Installation

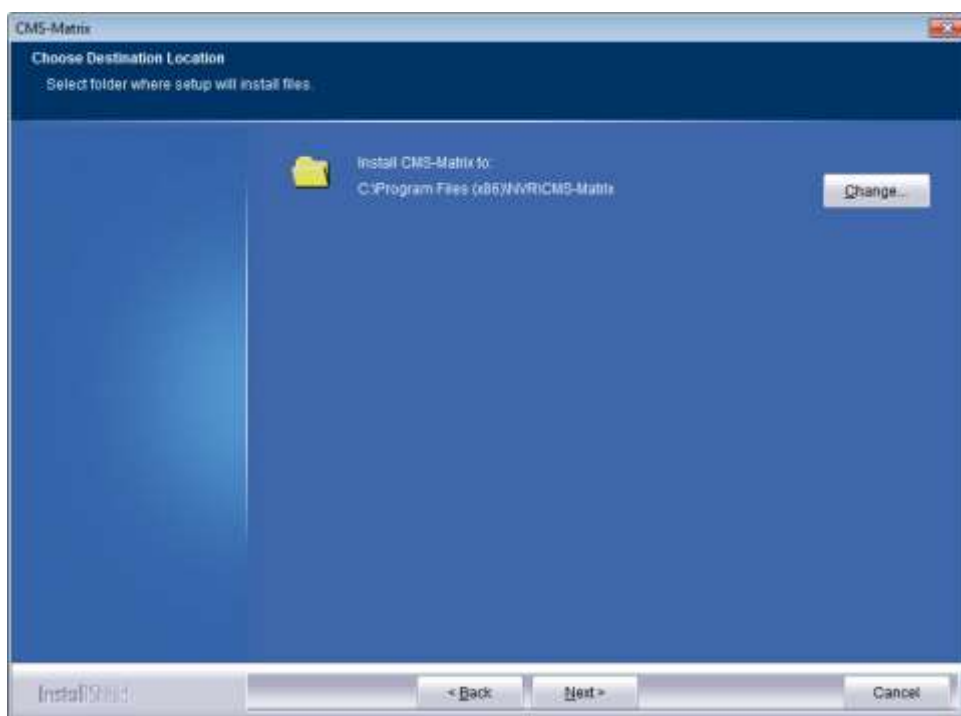
1. Click CMS_Matrix.exe to start the installation. Select the desired language for the software, then click **Next>** and follow the steps to install the software.



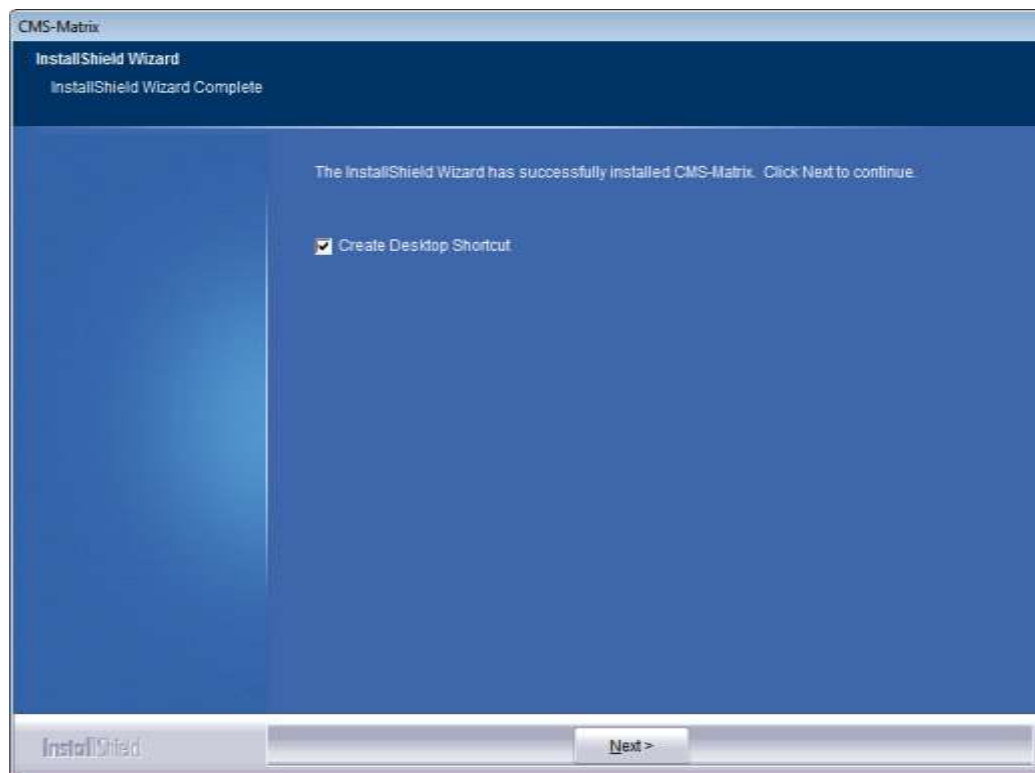
2. Read the End-User License Agreement, select the option “**I accept the terms of the license agreement,**” and click **Next>** to continue.



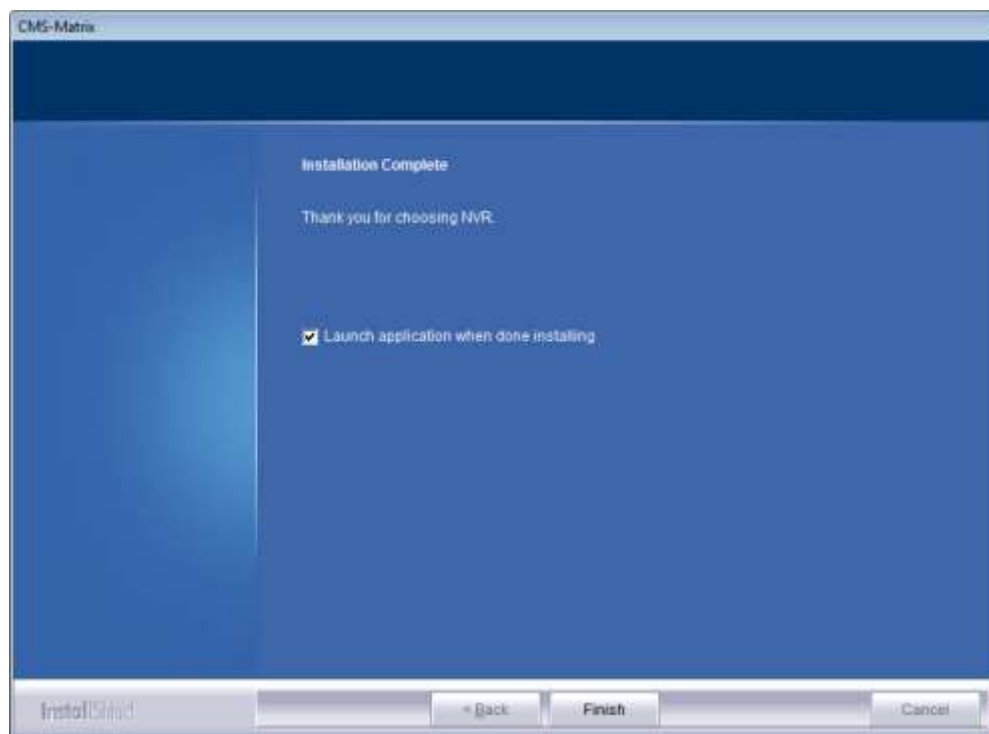
3. Click **Change** to change the folder in which the software files will be stored, and then click **Next>** to continue.



4. Check the checkbox to have a desktop shortcut, and click **Next>** to continue.



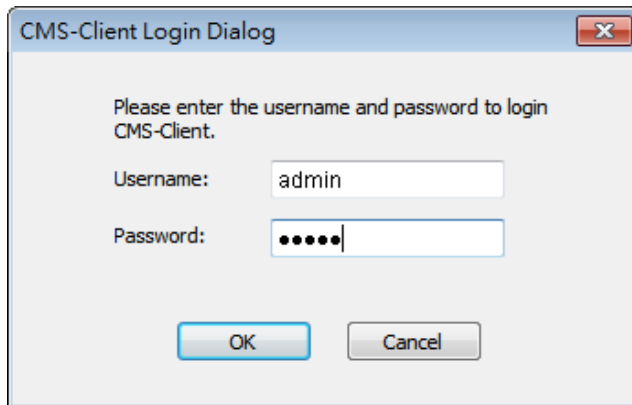
5. Check the checkbox to launch the application, and click **Finish** to complete the installation



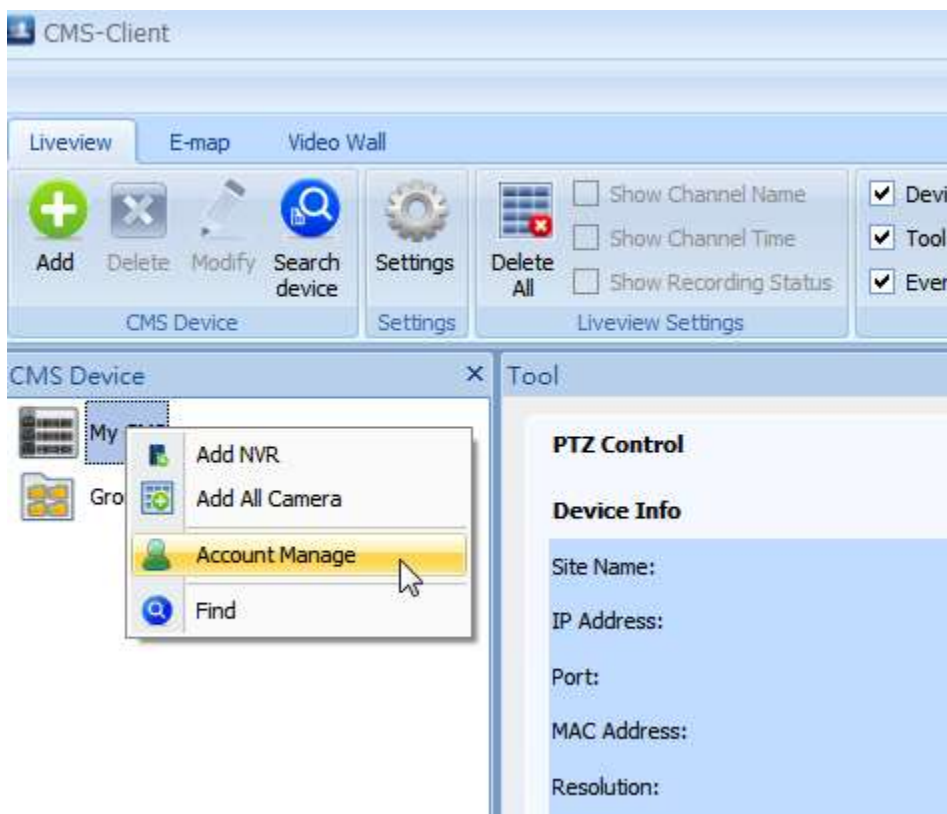
Chapter 5: CMS-Client Configuration

5.1 Change the Default Password

Please double-click CMS-Client icon to enable CMS-Client. When the CMS-Client is launched, a login window will pop out. The default username is **admin** and the default password is **admin**.



To change your password, please go to **CMS Device Panel**, right-click on **My CMS**, and choose "Account Manage"



Account Manage

User List

- Account
 - Administrator
 - admin
 - Power User
 - User
 - Operator
 - Guest

Account Manage

Account:

Password:

Confirm Password:

User Status

☐ Administrator
☐ Power User
☐ User
☐ Operator
☒ Guest

Authority CMS Devices CMS Groups

- [-] CMS Device
 - [-] Account Manage
 - [-] Find
 - [-] Settings
- [-] Liveview Settings
- [-] Group Management
- [-] Panel
- [-] Display Mode
 - [-] Normal Layout
 - [-] Full Screen
 - [-] User Defined...
- [-] Liveview
 - [-] PTZ Control
 - [-] Device Info
 - [-] Event Filter

Add Delete Reset Apply

Go to **User List** section and click “**admin**,” and change the default password on **Account Manage** section.

Account Manage

User List

- Account
 - Administrator
 - admin
 - Power User
 - User
 - Operator
 - Guest

Account Manage

Account:

Password:

Confirm Password:

User Status

☒ Administrator
☐ Power User
☐ User
☐ Operator
☐ Guest

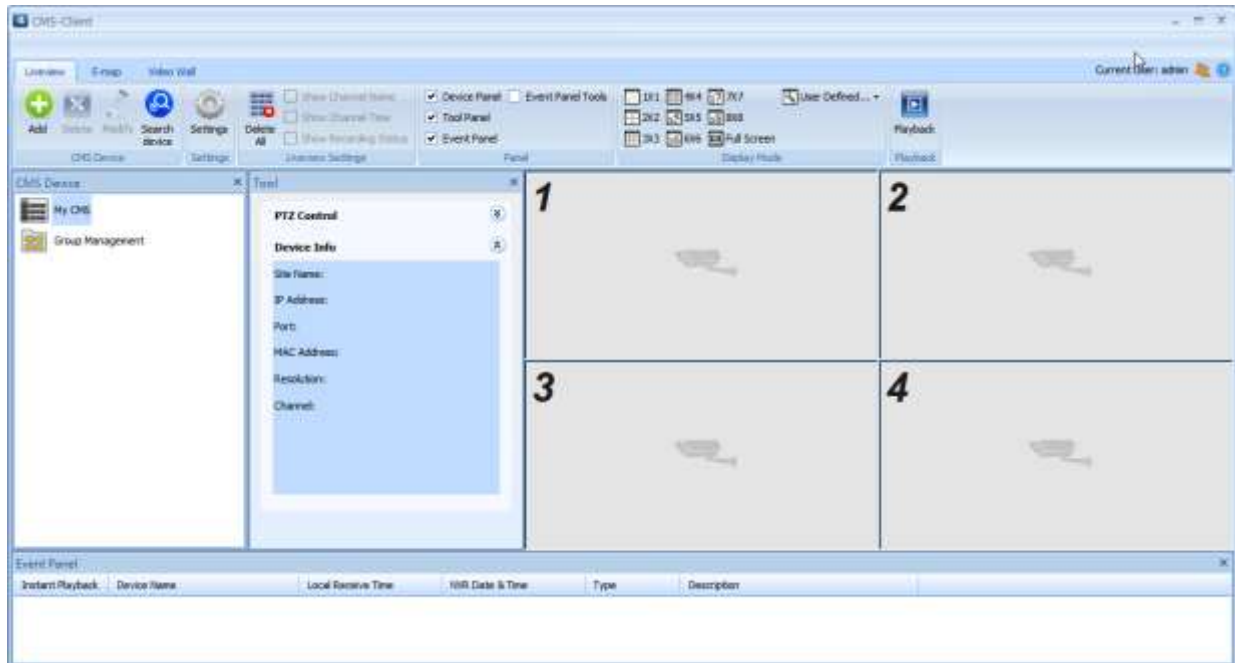
Authority CMS Devices CMS Groups

- [-] CMS Device
 - [-] Account Manage
 - [-] Find
 - [-] Settings
- [-] Liveview Settings
- [-] Group Management
- [-] Panel
- [-] Display Mode
 - [-] Normal Layout
 - [-] Full Screen
 - [-] User Defined...
- [-] Liveview
 - [-] PTZ Control
 - [-] Device Info
 - [-] Event Filter

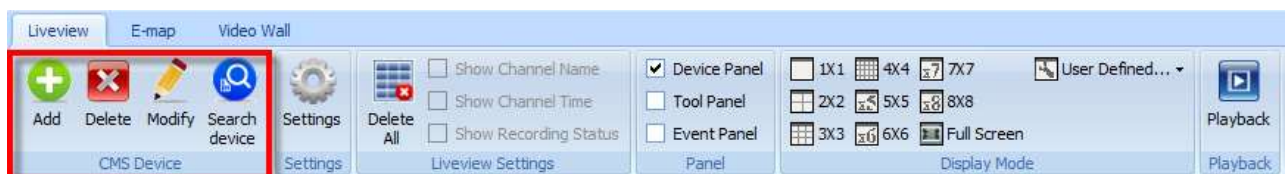
Add Delete Reset Apply

5.2 Liveview

The following picture shows the **Liveview** user interface of the CMS-Client. If the CMS-Client is run for the first time, users have to add the NVR(s) to the CMS-Client to view the cameras managed by the NVR(s).



5.2.1 Liveview: CMS Device



There are four functions in the **CMS Device** section of the **Liveview** tab:

Add, Delete, Modify, and Search device.

Search device:

Click **Search device** for the CMS-Client to look for the available NVRs on the local network and show the search result. To add an NVR to the CMS-Client from the search result, please **check the checkbox** that belongs to the NVR, enter **username** and **password** for the NVR, and click **Add**.

Search device

N..	Device Name	IP Address	MAC Address	Model Name	Status	
<input type="checkbox"/>	1	DS-2222221f6128	192.168.5.250	22:22:22:1f:61:28	MX-4164+	Already in ...
<input type="checkbox"/>	2	DS-20107a39cfa1	192.168.5.249	20:10:7a:39:cf:a1	MX-4136	
<input type="checkbox"/>	3	DS-94de80a17958	192.168.5.104	94:de:80:a1:79:58	DS-4236 Pro	Already in ...

Username:

☐ Apply the selected

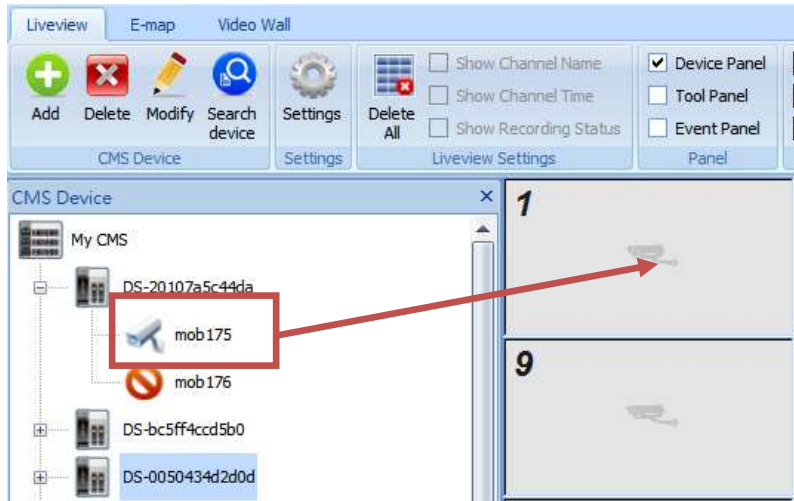
Search again

Add

Password:

If the NVR is added successfully, the NVR and its managed cameras will be displayed in the Device panel. Please **click and drag** the camera to any blank channel window of the display mode to see the video of the camera.

You can also **double-click** the cameras to add them into the channel window by order.



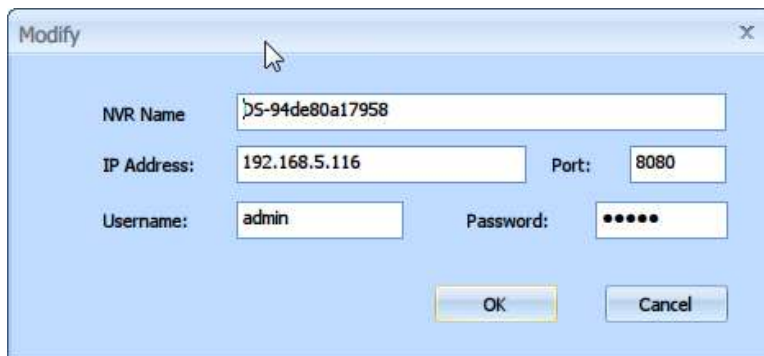
Add:

Click **Add** to manually add an NVR to the CMS-Client. Besides the **IP address** and **username** and **password**, users also need to input the **port number of the NVR**. The default port number of the DIGIEVER NVR is **80**.

Modify:

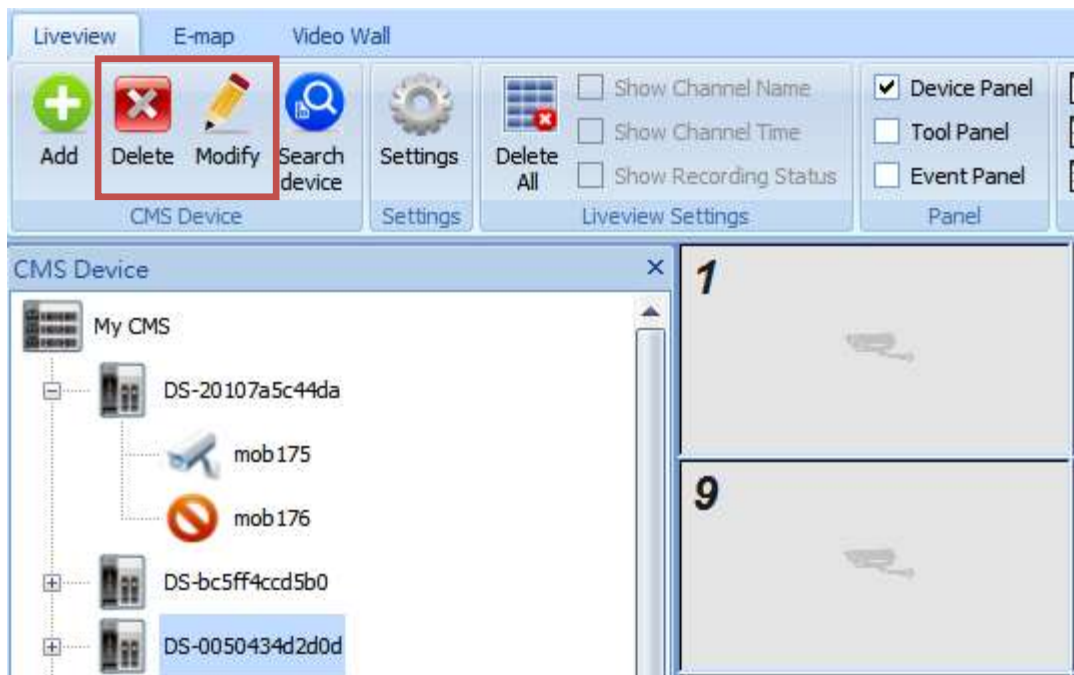
Users should modify NVR's connecting information on CMS-Client to synchronize with the change of NVR server's IP address, port, username and password.

Please select the NVR on the Device panel, and click **Modify** to change NVR's connection information.

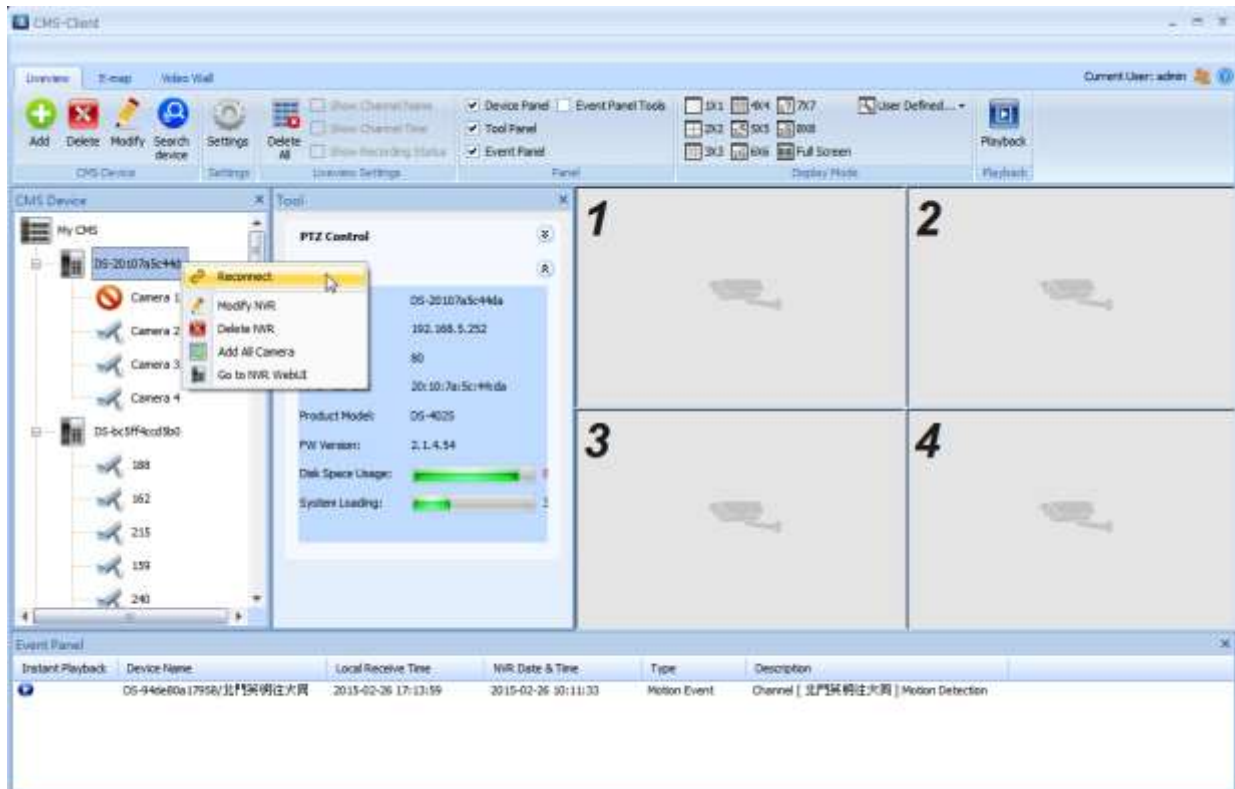


Delete:

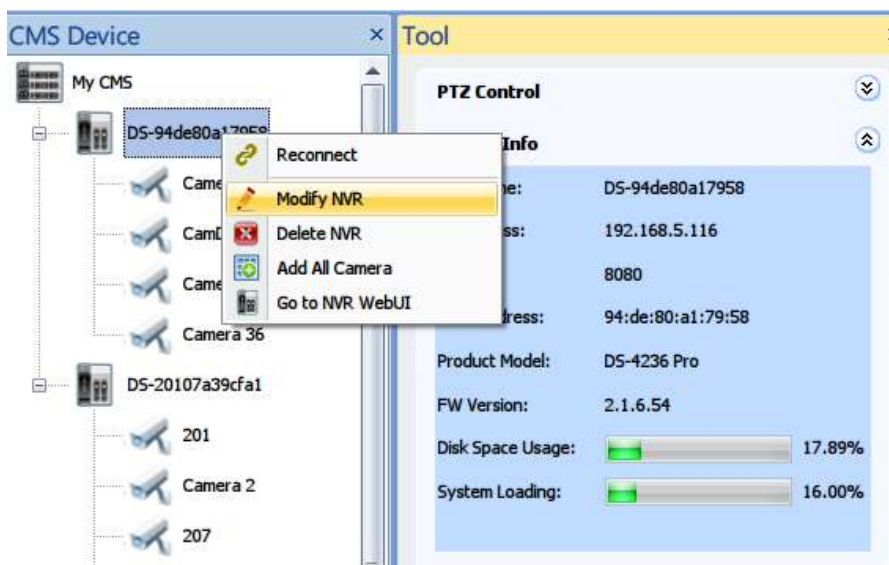
Please select the NVR on the Device panel, and click **Delete** to remove it from the list.



5.2.2 Liveview: Operation from CMS Device Panel

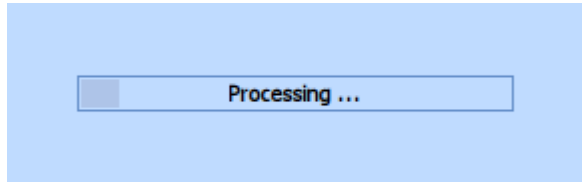


Users can right-click on any NVR showed on **CMS Device Panel** for advanced operation.



Reconnect:

Manually reconnect any NVR to synchronize the latest camera information from NVR server, especially after users change camera settings from NVR server. It may take a few seconds to complete the whole process; please wait until the progress bar is finished.



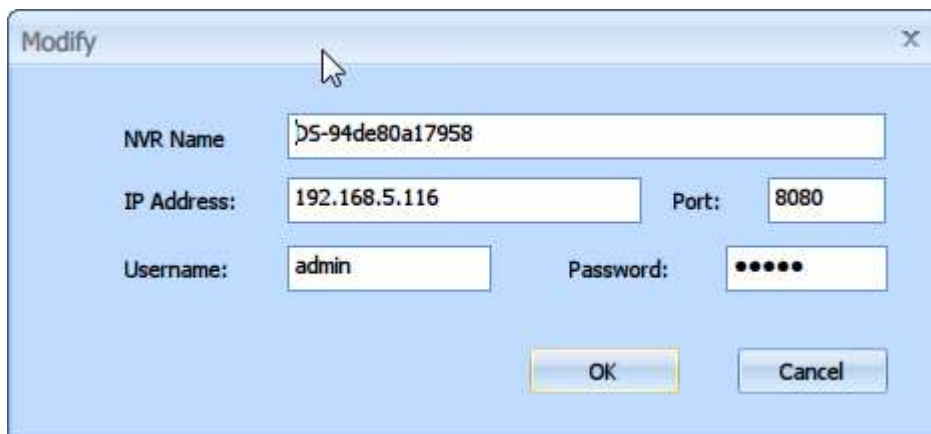
5.2.2.1 A Soft Reminder: Auto Reconnect

CMS-Client will automatically reconnect to each NVR server and synchronize to the latest camera information **every 20 seconds**, but user could manually reconnect to the selected NVR to see the changes happened immediately.

Modify NVR:

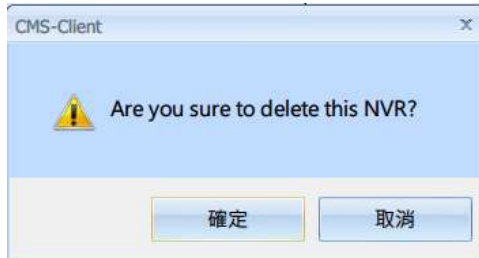
Once the NVR server is added into CMS-Client, the connecting information would be memorized by CMS-Client. However, If the connecting information, such as NVR Server's IP Address, port, username or password, is changed by any user, CMS-Client could no longer connect to NVR server before user modify NVR connecting information to the latest one.

Users should modify NVR's connecting information on CMS-Client to synchronize with the change of NVR server's IP address, port, username and password.

A screenshot of a "Modify" dialog box from the CMS-Client software. The dialog has a light blue title bar with the word "Modify" and a close button (X). Inside, there are four input fields: "NVR Name" with the value "05-94de80a17958", "IP Address:" with "192.168.5.116", "Port:" with "8080", and "Username:" with "admin". A "Password:" field is shown with six dots. At the bottom, there are "OK" and "Cancel" buttons. A mouse cursor is pointing at the "NVR Name" field. The background of the page shows a faint, stylized star or flower pattern.

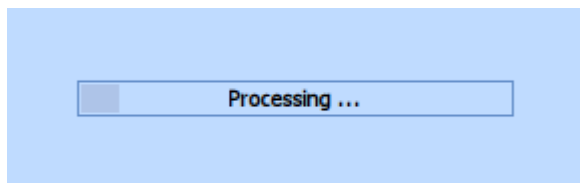
Delete NVR:

Users can also delete any selected NVR server from right-click menu. A confirmation dialogue will pop out before users delete NVR servers from CMS-Client.



Add All Cameras:

To add numerous camera streams to liveview channel at once, users can select NVR server from the **CMS Device** panel, and choose "add all cameras" from the right-click menu. All the cameras managed by the selected NVR server would be automatically added into liveview channels in a batch process. It may take a few seconds to complete the process, please wait until the progress bar is finished.



Go to NVR Web UI:

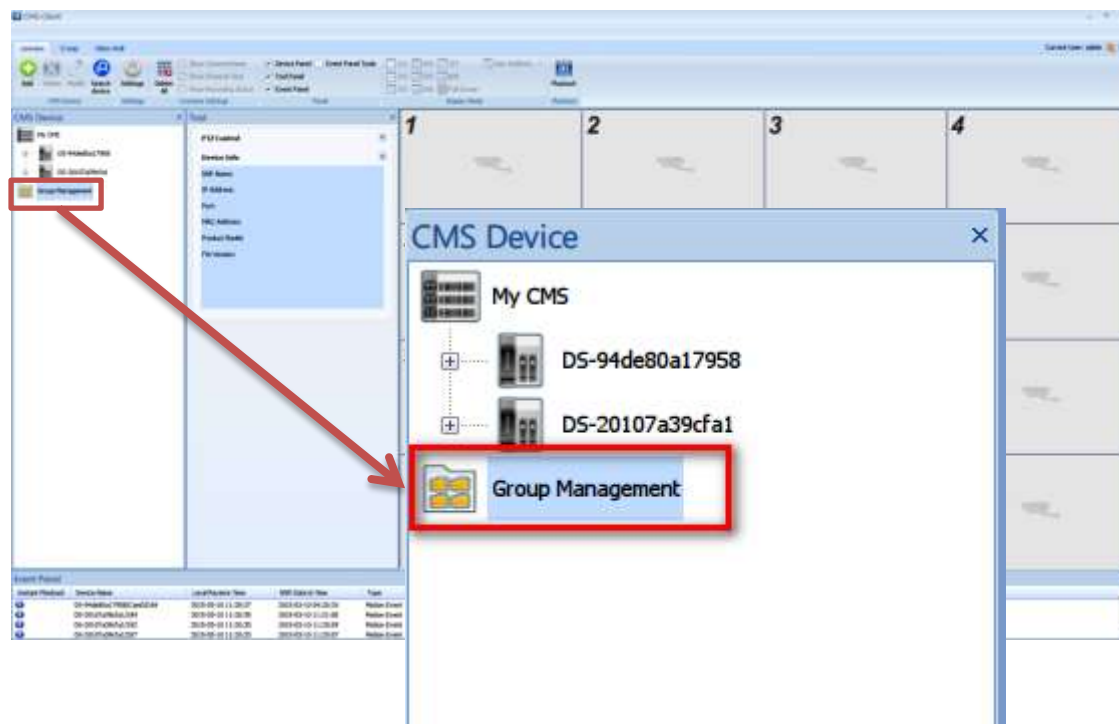
CMS-Client offers quick link to any selected NVR. NVR's configuration page would pop out automatically via Internet Explorer, Google Chrome, Mozilla Firefox, Opera, or Windows Safari.



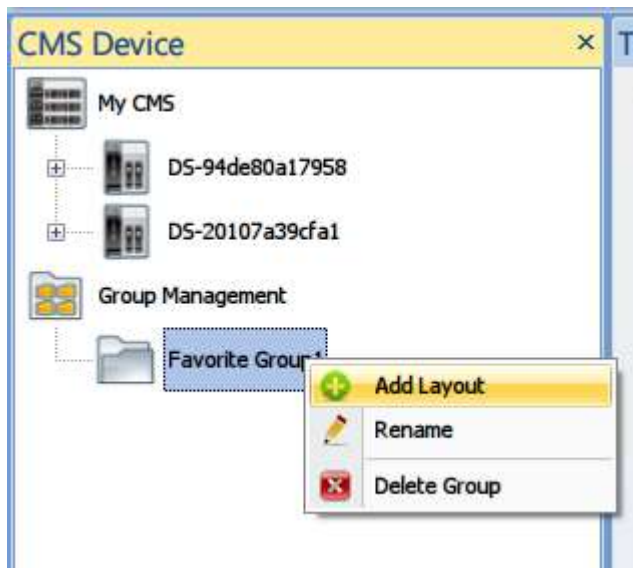
5.2.3 Liveview: Group Management

User can organize numerous cameras in **Group Management** from **CMS Device** panel. Please follow the step-by-step instruction to start camera group management.

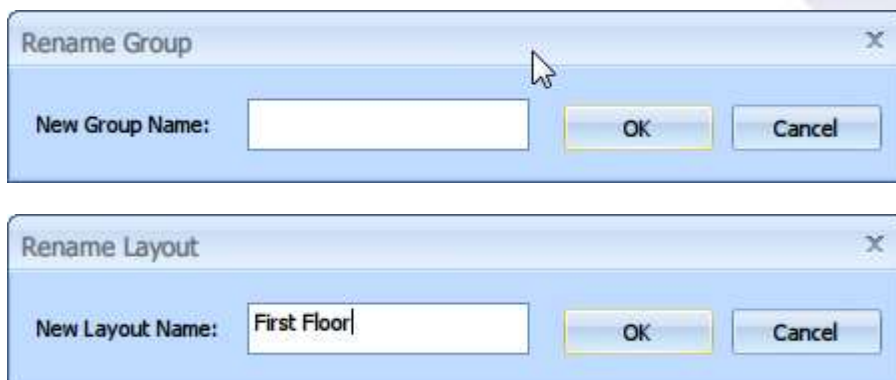
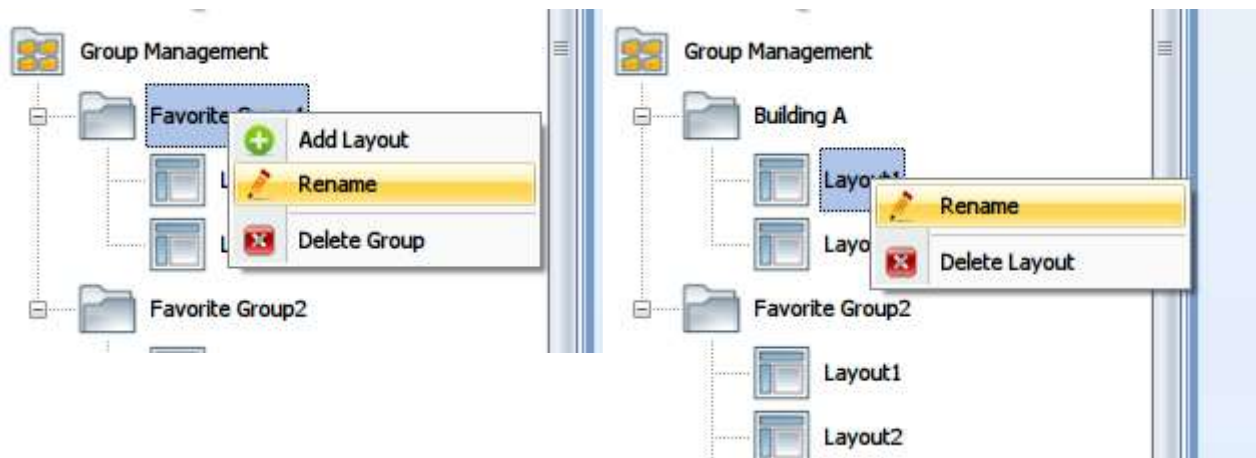
Step 1: Go to **CMS Device** panel, and find **Group Management** icon, right-click on **Group Management** icon, and choose “Add Favorite Group” from the right-click menu.



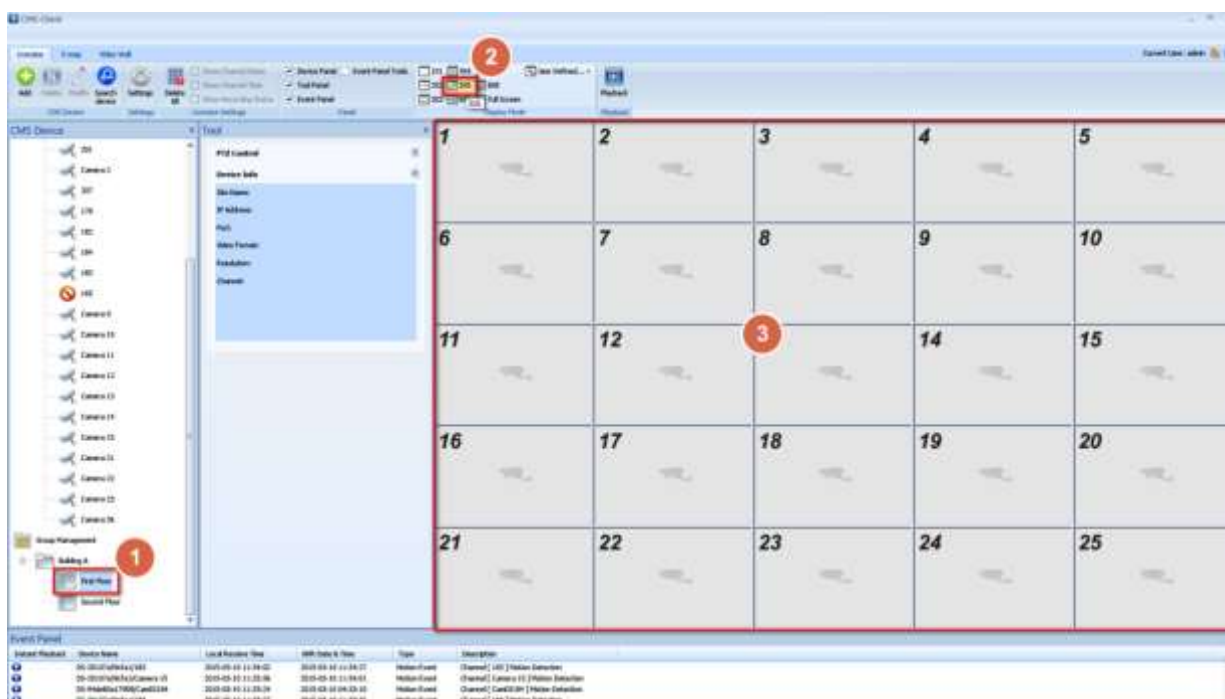
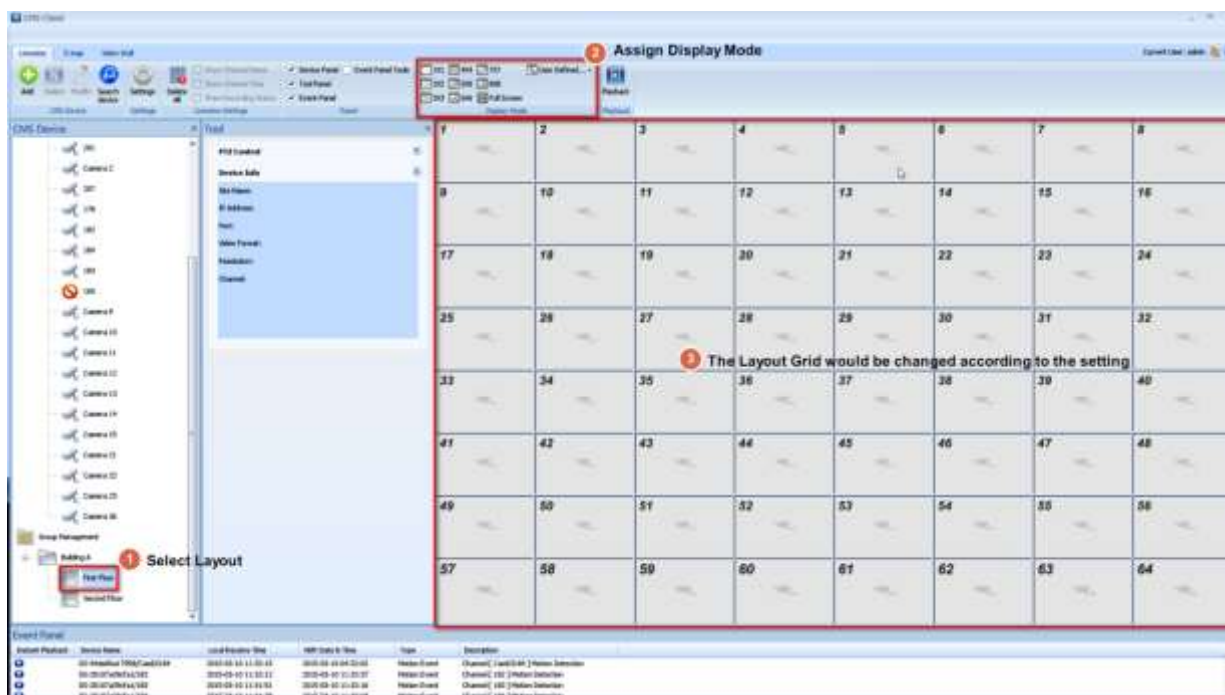
Step 2: A Folder icon called “**Favorite Group**” will show up. Right-click “**Favorite Group**,” and choose “**Add Layout**” from the menu. You can create several “**Layouts**” under each “**Favorite Group**,” and the number of “**Layouts**” and “**Favorite Group**” is unlimited.



Step 3: All the “**Favorite Groups**” and “**Layouts**” can be renamed via right-click menu.

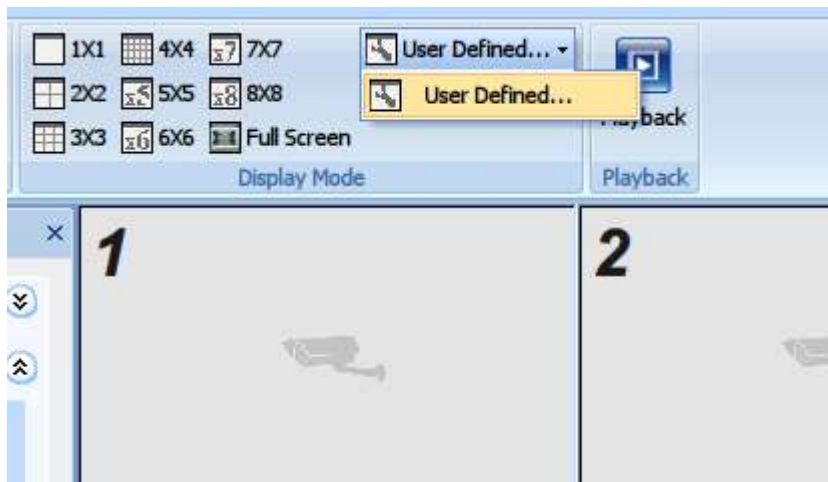


Step 4: Assign display mode (such as 2x2, 3x3, etc.) to each “**Layout**” you created.

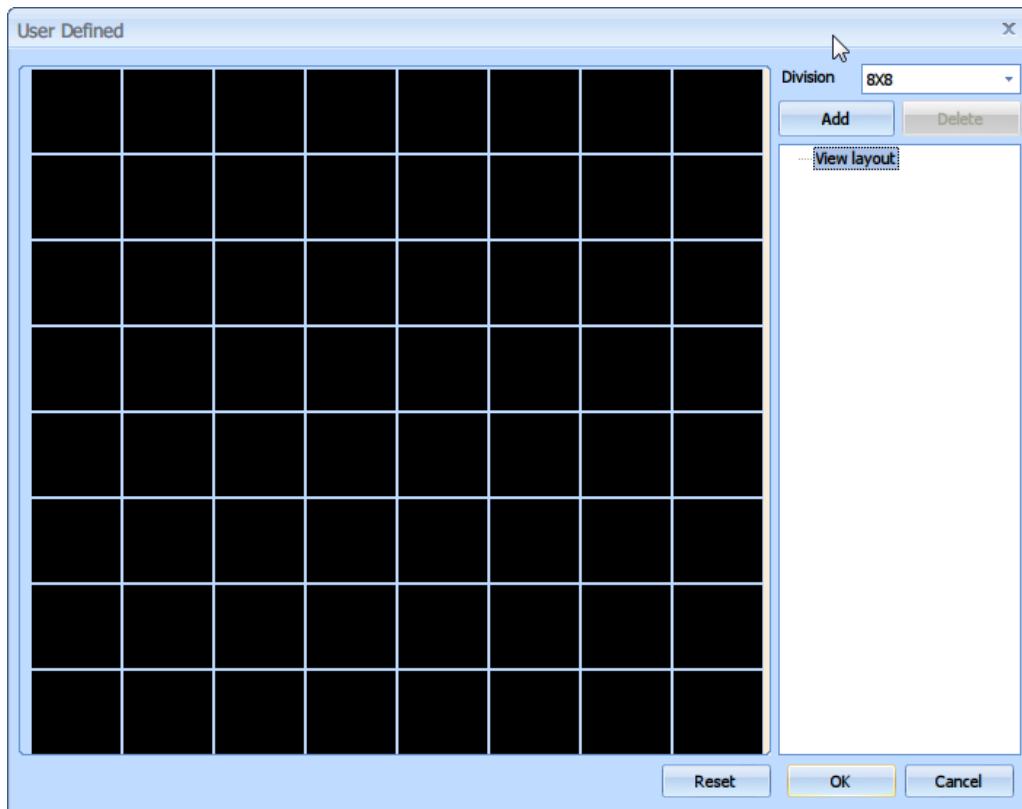


Step 5: Using User-Defined Layout Editor

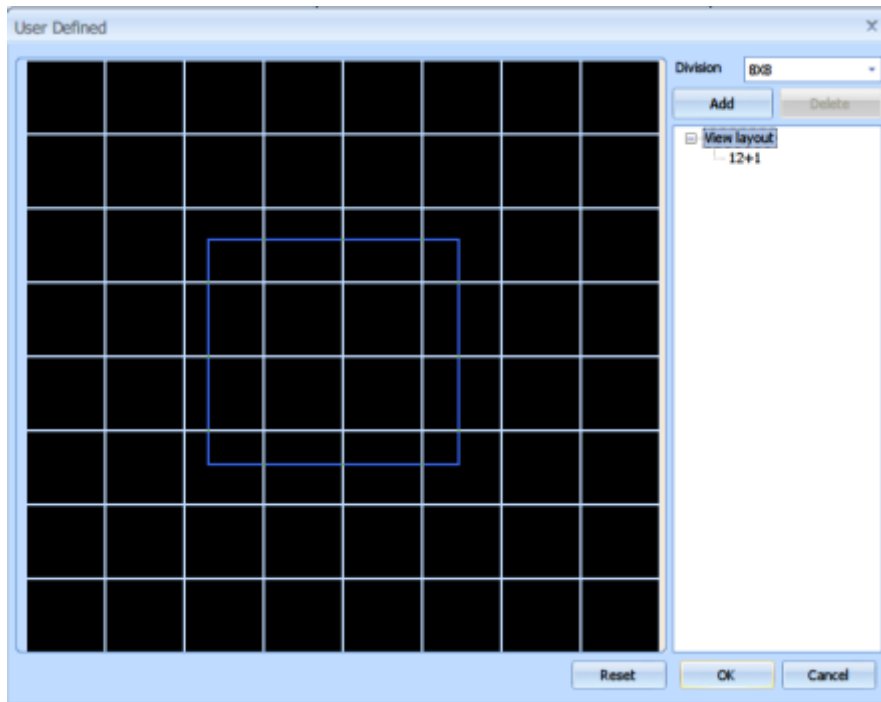
Find the **Display Mode** section from Liveview tool bar, and select “**User Defined...**”



Users-Defined Layout Editor would pop out.

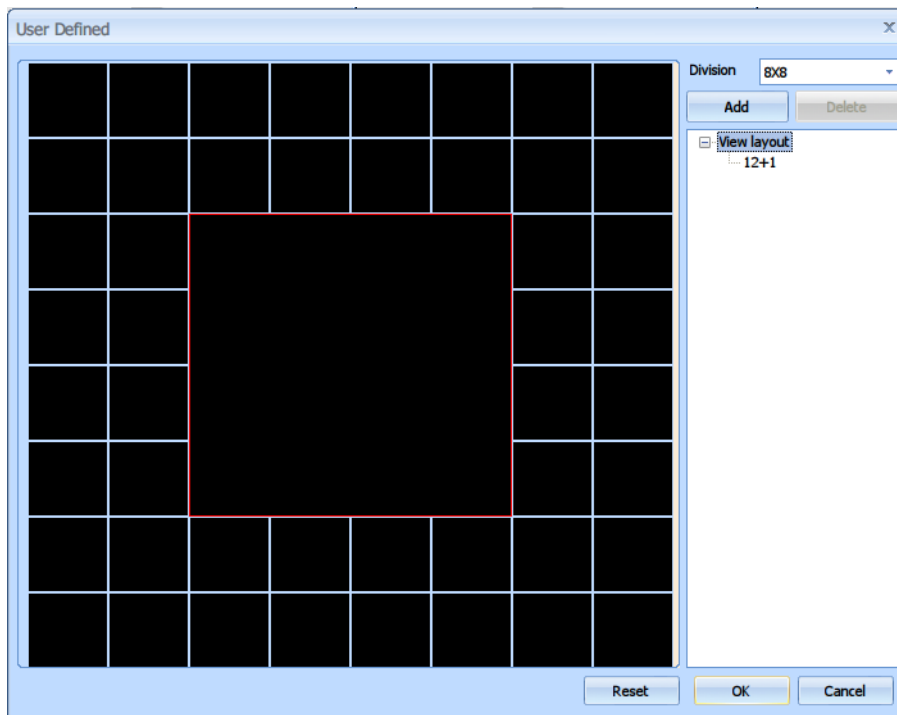


Drag your mouse (that means press and hold the left button of the mouse) to select the cells you want to merge. There would be a blue box to indicate the cells to be merged.

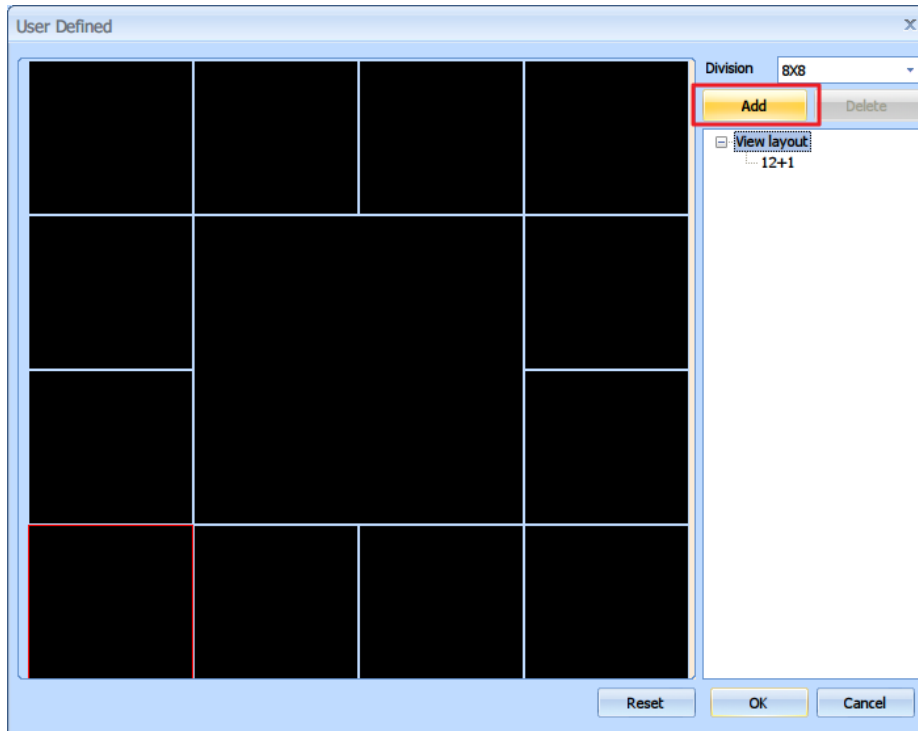


The cells would be merged into one cell after you release the left button from the mouse.

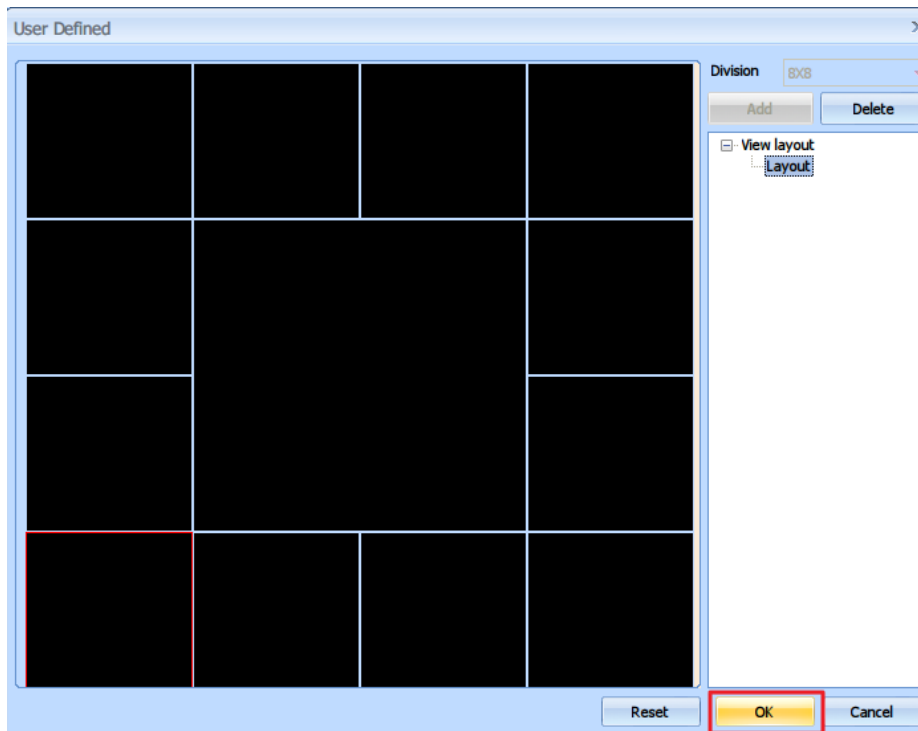
Continue to merge other cells to finish your design.



Once the design is completed, press **Add** button to add the new design into Layout List.

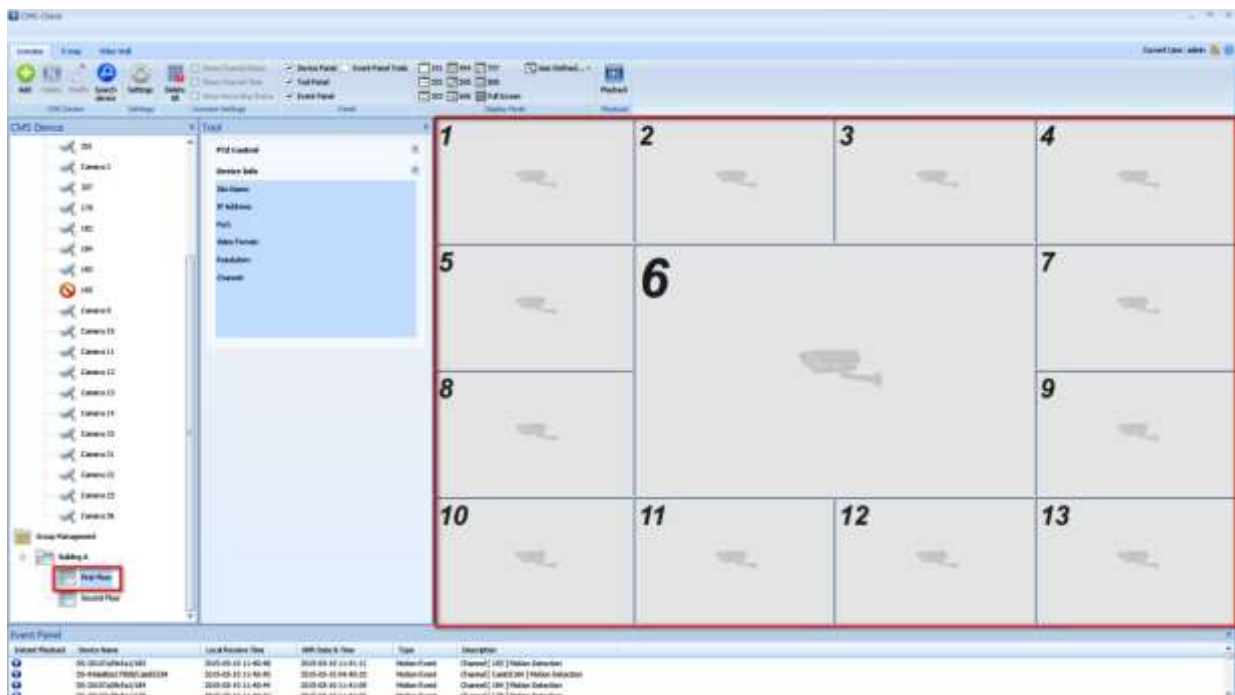
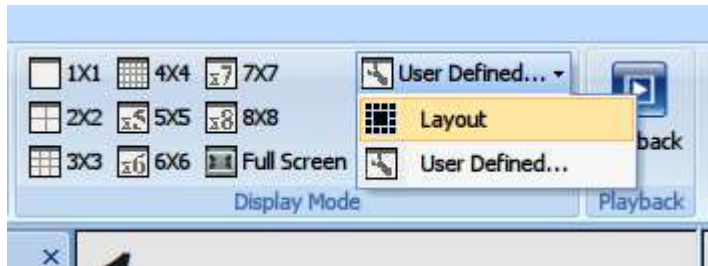


New layout would be added into Layout List. Press **OK** to finish.



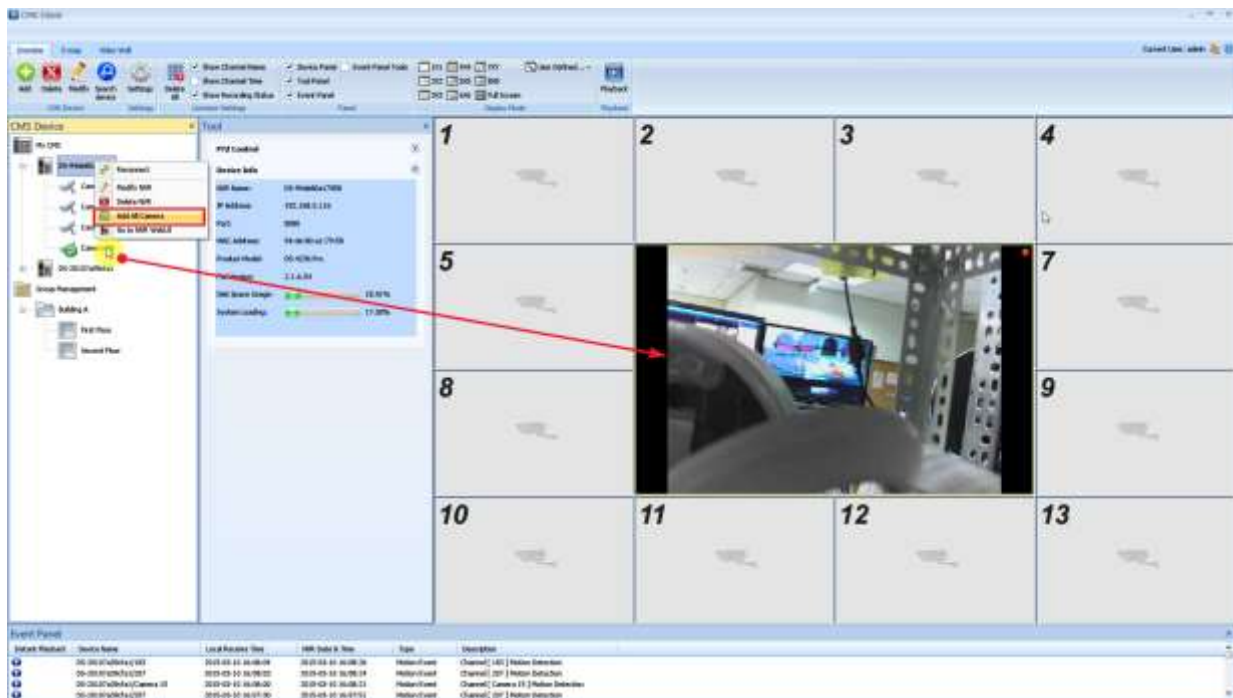
Find the **Display Mode** section from Liveview tool bar, and select “**User Defined...**” again.

Select the layout you’ve created to assign.



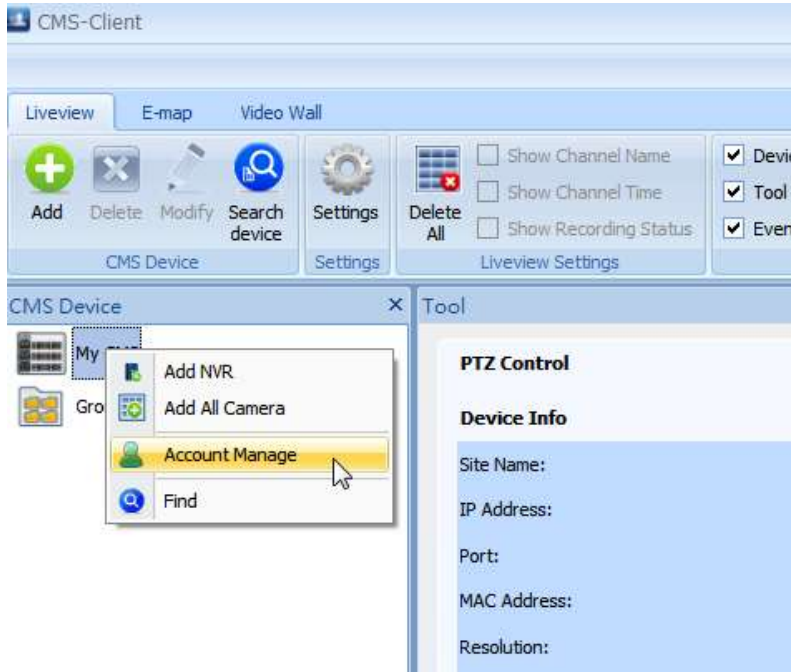
Step 6: Select another group layout and repeat step 4-5.

Step 7: Drag and drop cameras from CMS Device panel to group layout, or use the “add all camera” function.

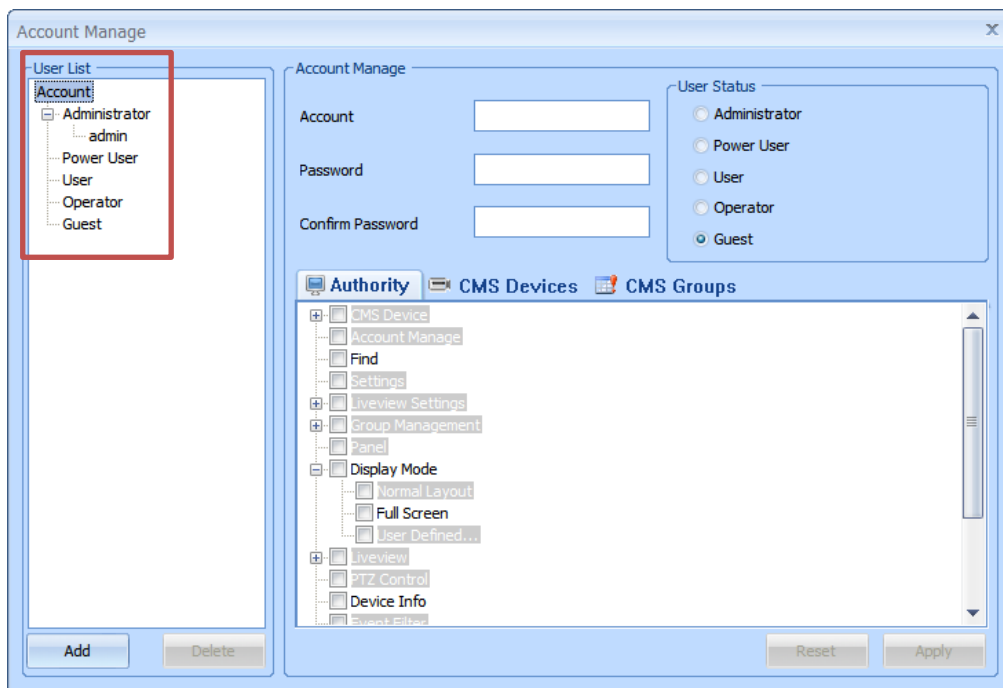


5.2.4 Liveview: User Privilege Management

To create user account, please go to **CMS Device Panel**, right-click on **My CMS**, and choose “Account Manage”



Administrators can create multiple user accounts with 5 different levels of user privilege: administrator, power user, user, operator, and guest.



The following are the step-by-step guide for User Privilege Management

1. Enter **account** name and **password**

The screenshot shows the 'Account Manage' window. On the left, the 'User List' pane shows a tree structure with 'Account' expanded, listing 'Administrator', 'admin', 'Power User', 'User', 'Operator', and 'Guest'. The main area is divided into three sections: 'Account Manage', 'User Status', and a list of permissions. The 'Account Manage' section is highlighted with a red box and contains three input fields: 'Account' with the text 'MIS', 'Password' with four asterisks, and 'Confirm Password' with four asterisks. The 'User Status' section on the right shows five radio buttons: 'Administrator', 'Power User', 'User', 'Operator', and 'Guest', none of which are selected. The bottom section shows a list of permissions under the 'Authority' tab, including 'Find', 'Display Mode', 'Full Screen', and 'Device Info'.

2. Select **User Status** from the 5 levels of privilege

This screenshot is similar to the first one, but the 'User Status' section on the right is highlighted with a red box. In this section, the 'Administrator' radio button is now selected, indicating that the user is being created with Administrator privileges. The 'Account' and 'Password' fields remain unchanged.

3. Decide the detailed privilege items from **Authority** page

The screenshot shows the 'Account Manage' window. On the left, the 'User List' shows a tree structure: 'Account' (expanded) contains 'Administrator' (expanded) which contains 'admin'. The main area has three tabs: 'Authority' (selected), 'CMS Devices', and 'CMS Groups'. Under the 'Authority' tab, there is a list of privileges with checkboxes. The following table represents the visible items:

Privilege Item	Checked
Settings	<input checked="" type="checkbox"/>
Liveview Settings	<input checked="" type="checkbox"/>
Group Management	<input checked="" type="checkbox"/>
Panel	<input checked="" type="checkbox"/>
Display Mode	<input checked="" type="checkbox"/>
Liveview	<input checked="" type="checkbox"/>
PTZ Control	<input checked="" type="checkbox"/>
Device Info	<input checked="" type="checkbox"/>
Event Filter	<input checked="" type="checkbox"/>
Import	<input checked="" type="checkbox"/>
Export	<input checked="" type="checkbox"/>
E-map	<input checked="" type="checkbox"/>
Playback	<input type="checkbox"/>
Video Wall	<input type="checkbox"/>

The 'Playback' and 'Video Wall' items are highlighted with a red box. At the bottom, there are 'Add', 'Delete', 'Reset', and 'Apply' buttons.

4. Assign the corresponding device accessibility from **CMS Devices** page

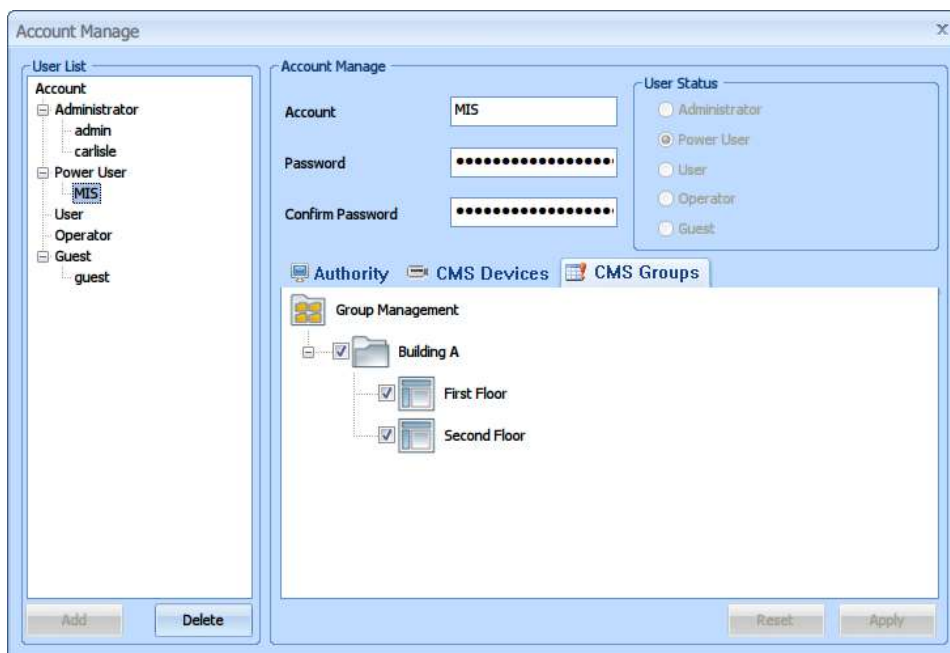
The screenshot shows the 'Account Manage' window. On the left, the 'User List' shows a tree structure: 'Account' (expanded) contains 'Administrator' (expanded) which contains 'admin'. The main area has three tabs: 'Authority', 'CMS Devices' (selected), and 'CMS Groups'. Under the 'CMS Devices' tab, there is a list of devices under the heading 'My CMS'. The following table represents the visible items:

Device ID	Checked
DS-94de80a17958	<input checked="" type="checkbox"/>
DS-20107a39cfa1	<input checked="" type="checkbox"/>

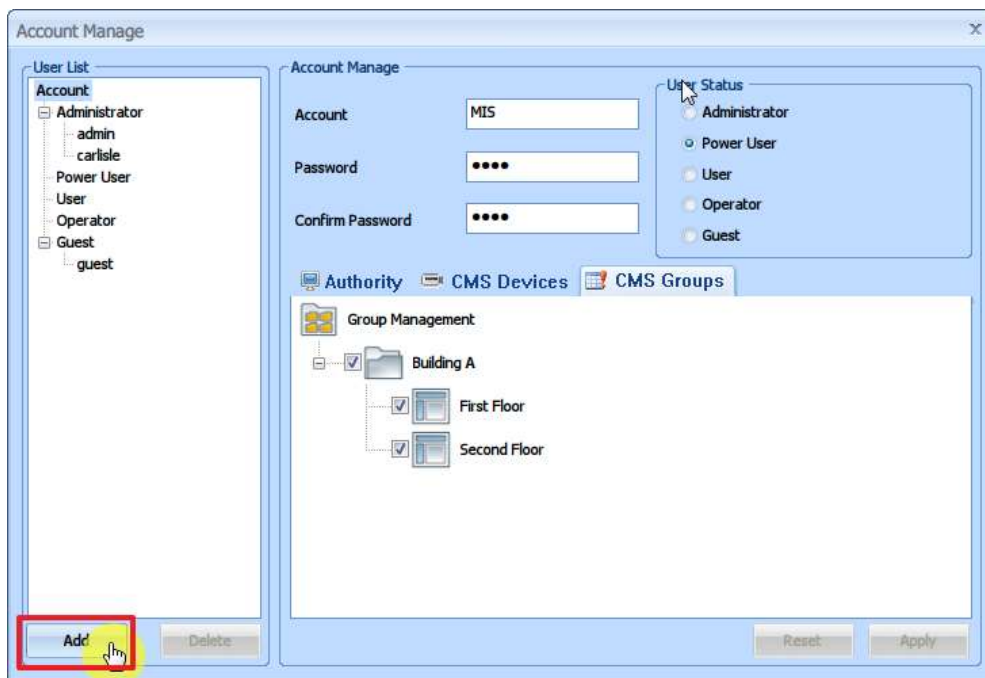
At the bottom, there are 'Add', 'Delete', 'Reset', and 'Apply' buttons.



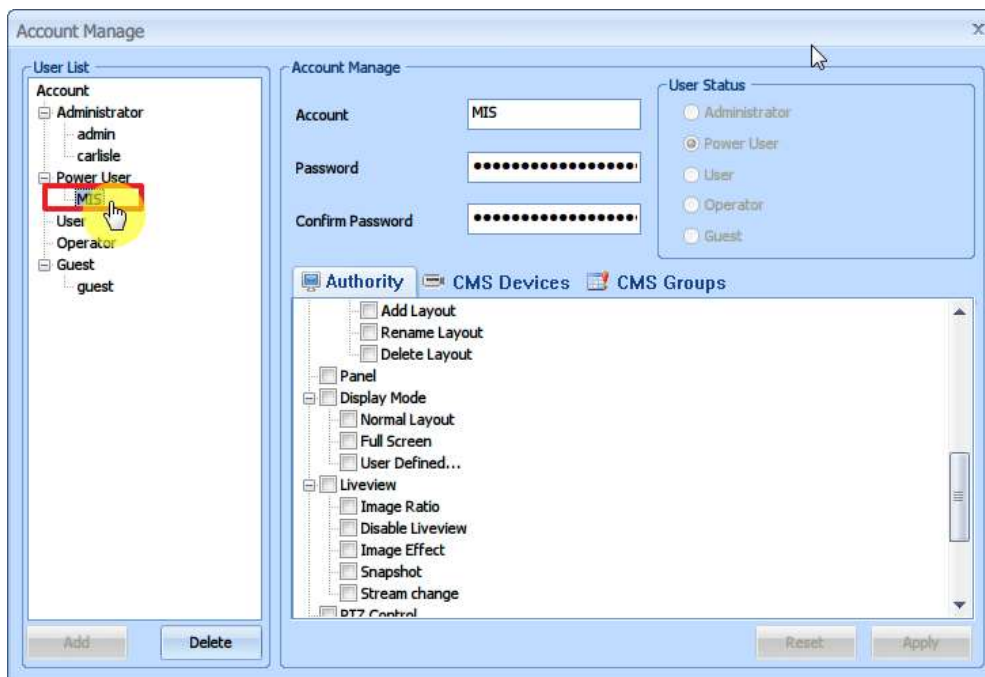
5. Determine Camera Group accessibility from **CMS Groups** page



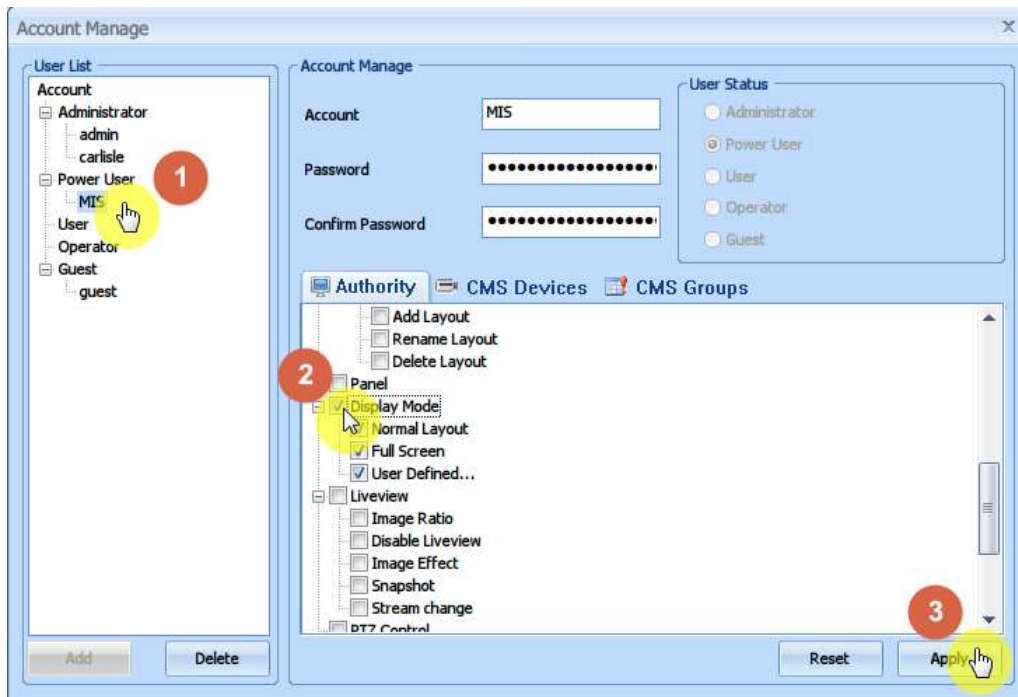
- Click "Add" Button to complete the configuration



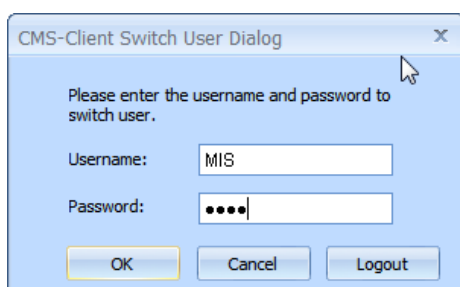
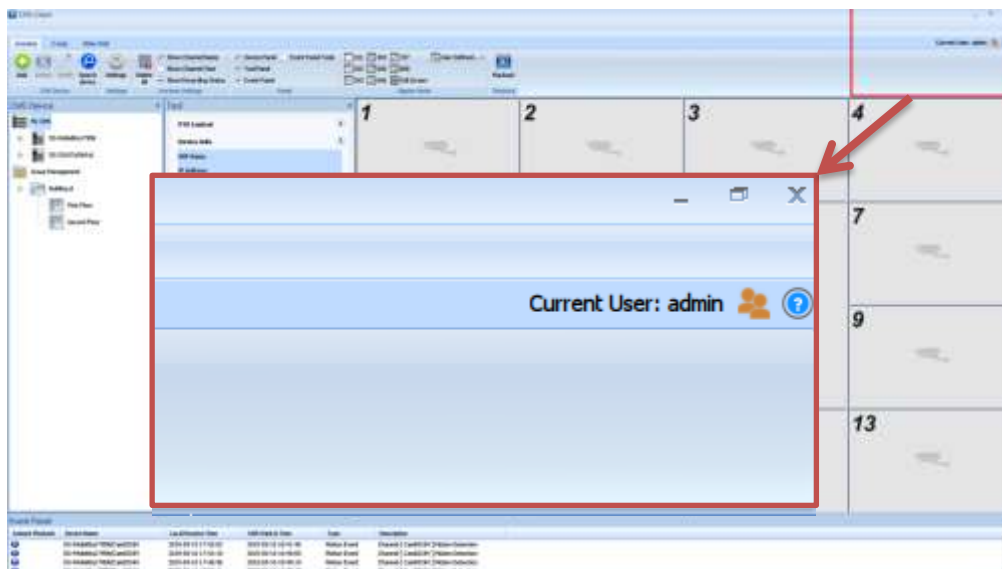
- Choose the account to be modified.

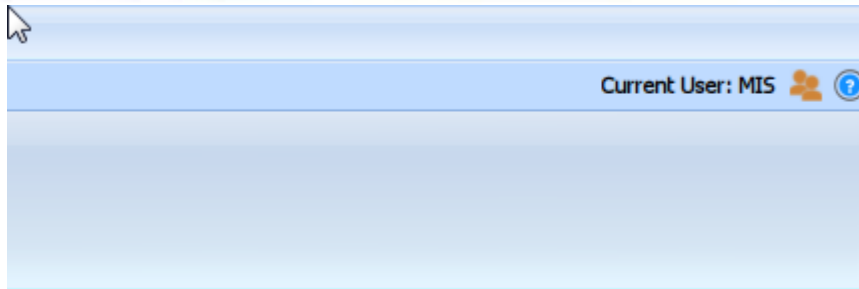


- After changing the privilege setting, the **Apply** button will be enabled. Click **Apply** button to take effect.



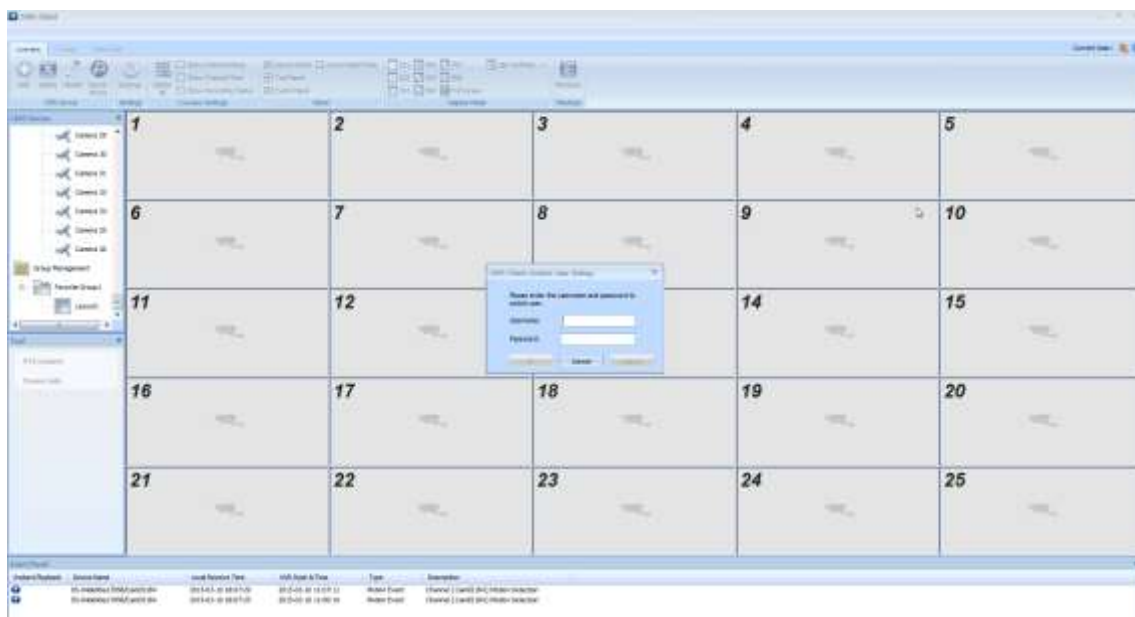
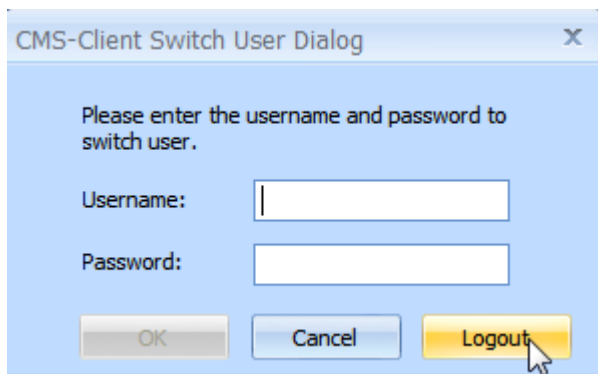
- Switch between user accounts from the switch button (located at upper right corner)





Click **OK** button to switch user.

10. Log out

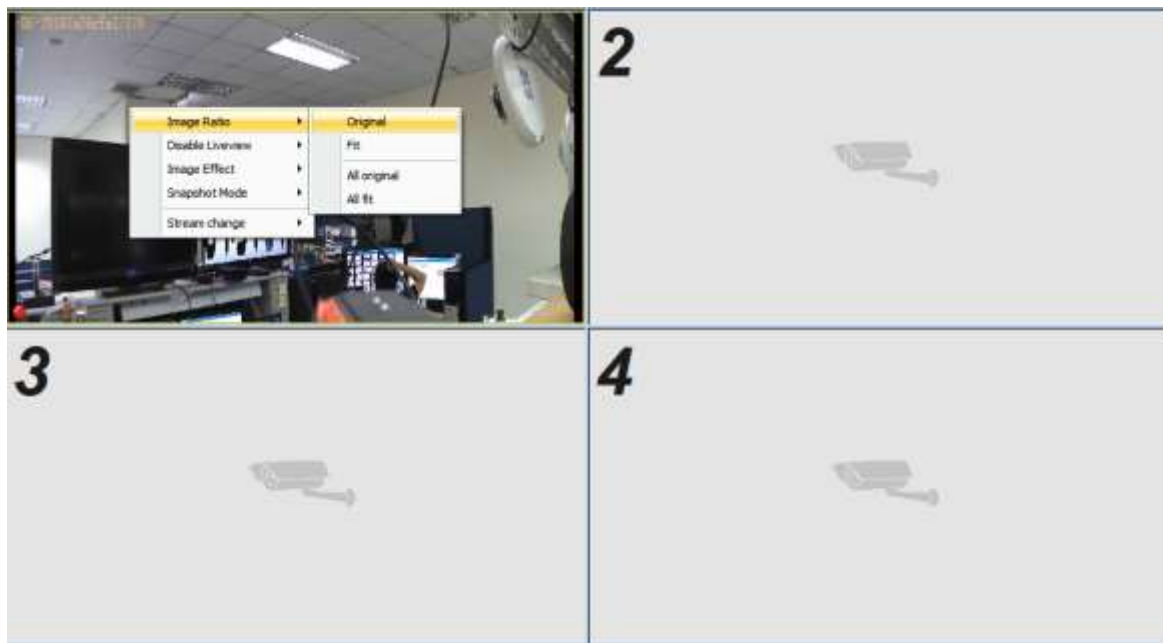


5.2.5 Liveview: Video Channel Settings

Users can **right click** on the video channel to change the following settings:

Image Ratio:

Use the original image ratio, or make the video fit the entire area.



Disable Liveview:

Disable the liveview video of **this** camera or **all** cameras.

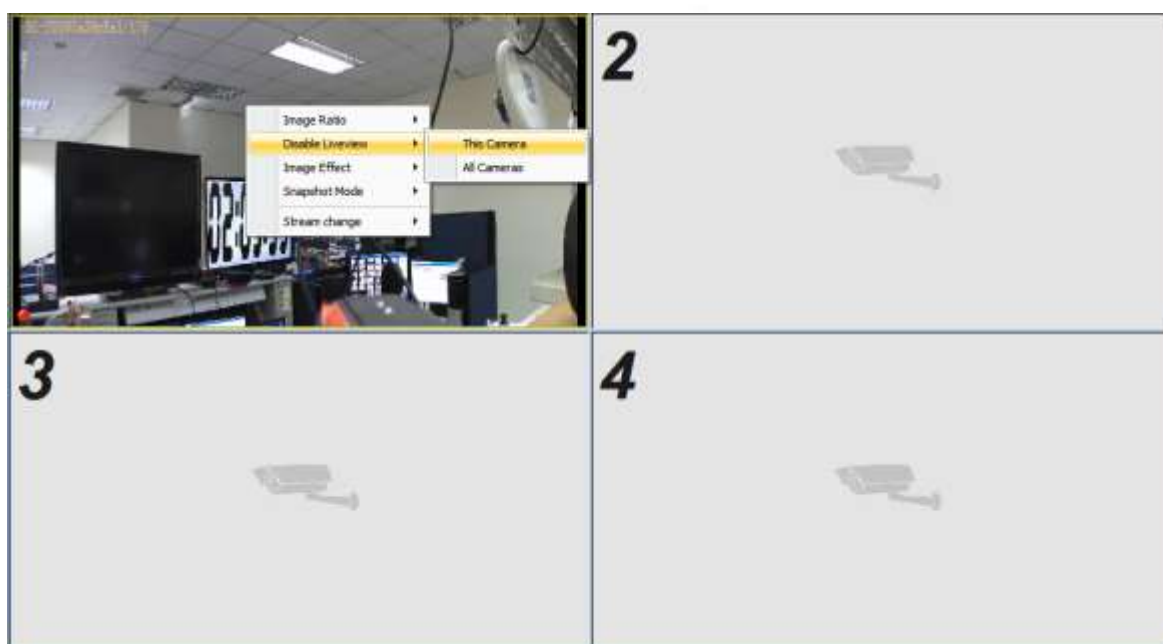
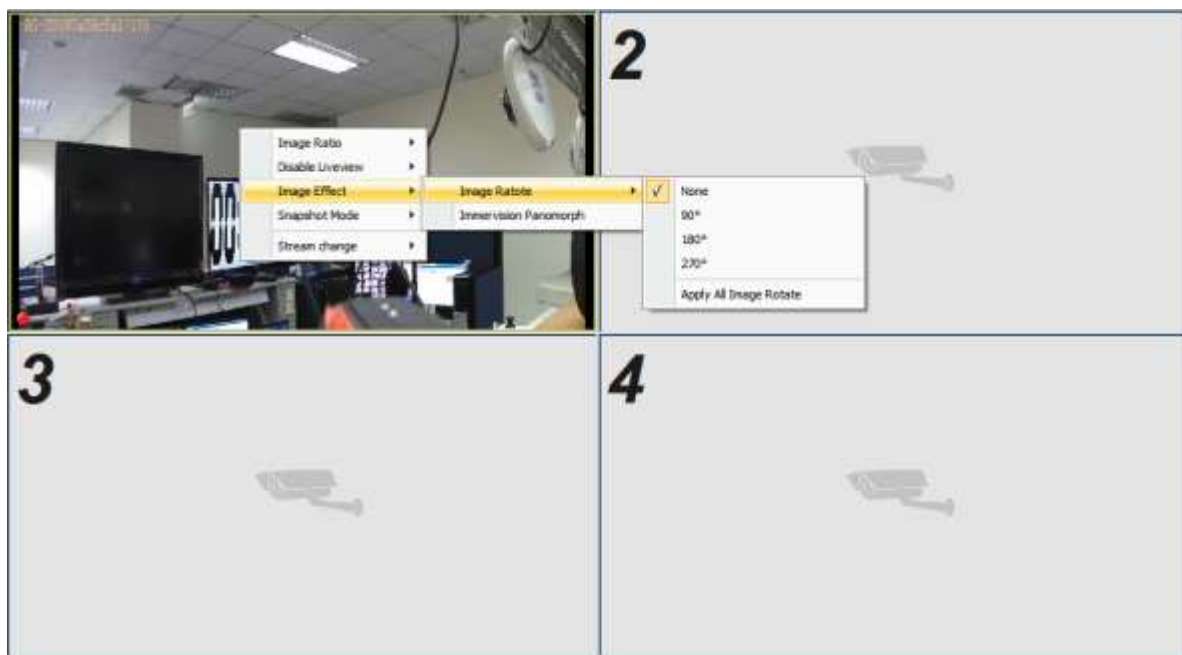


Image Effect:

Rotate the video, or change the settings for the camera with Immervision Panomorph lens.

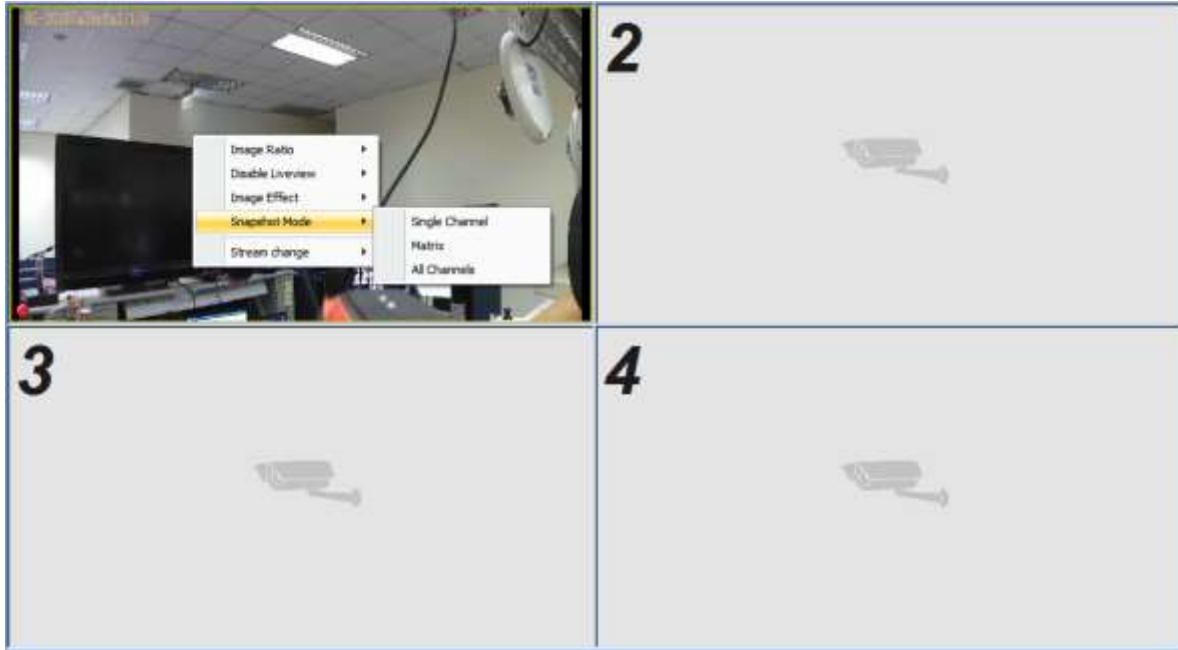


5.2.5.1 A Soft Reminder: Limitation of Immervision Panomorph SDK

Due to the limitation of Immervision Panomorph SDK, only the **complete oval-shaped video** can be de-warped. It is recommended to set your camera with Immervision lens to at least 3 megapixel resolutions, to ensure complete oval-shaped video.

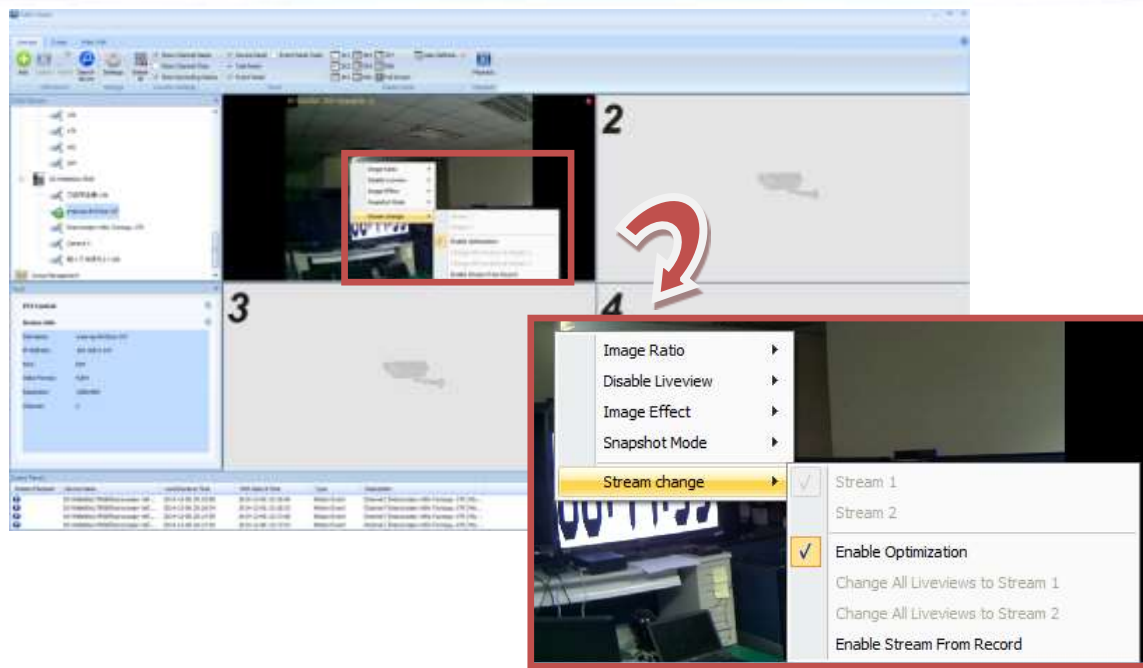
Snapshot Mode:

Take the snapshot of a **single camera**, **the matrix** (the entire currently channel window of the display mode), or **all cameras**.



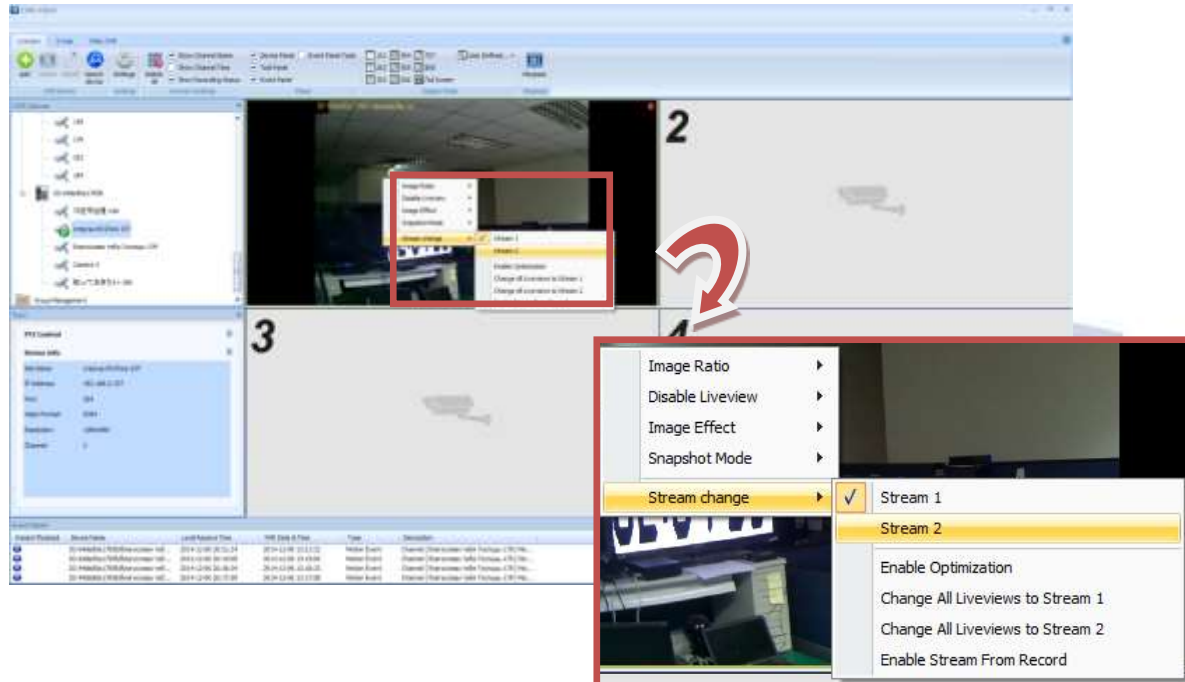
Stream Change:

When Camera is added into blank channel, the **Stream Optimization** would be enabled by default. By Stream Optimization technology, user can always have better balance of quality and bandwidth cost. When numbers of channels in current layout is under 9 channels (including 9 channels), CMS-Client would auto select **Stream 1** for all channels to have better quality. On the other hand, when numbers of channels in current layout is over 9 channels, CMS-Client would auto select **Stream 2** for all channels to save bandwidth cost.



In most cases, **Stream Optimization** is the best choice for users, but in certain situation, users may want to change the camera stream manually.

To manually change the camera stream, you need to disable the **Stream Optimization** first.



There are 4 methods to manually change camera stream after you disable the **Stream Optimization**:

1. **Stream 1**: Change to Stream 1. If the current stream is Stream 1, a check mark would be displayed.
2. **Stream 2**: Change to Stream 2. If the current stream is Stream 2, a check mark would be displayed.
3. **Change All Liveview to Stream 1**: change all camera streams in the current layout to Stream 1.



Note: You MUST disable **Stream Optimization** for every channel in the current layout before you use this function.

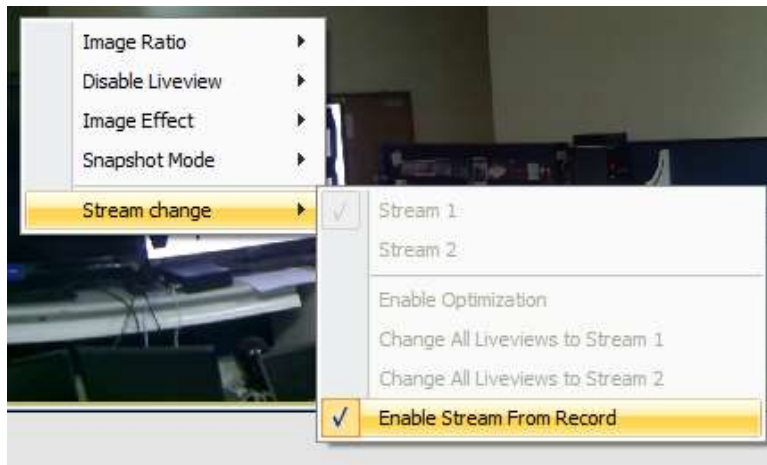
4. **Change All Liveview to Stream 2**: change all camera streams in the current layout to Stream 2.



Note: You MUST disable **Stream Optimization** for every channel in the current layout before you use this function.

In some situation, user may want to relieve camera's loading. Right click on the selected channel, and navigate in the following sequence:

Stream Change >> Enable Stream from Record



Click to enable **Stream from Record**. Once **Stream from Record** is enabled, CMS-Client would fetch the stream from NVR's recording stream directly, instead of fetching another stream from camera.



Note: When **Stream from Record** is enabled, all other options regarding **Stream Change** would be disabled. To enable them, you MUST disable **Stream from Record** first

5.2.6 Liveview: Settings

Click **Settings** of the Liveview tab for more CMS-Client settings

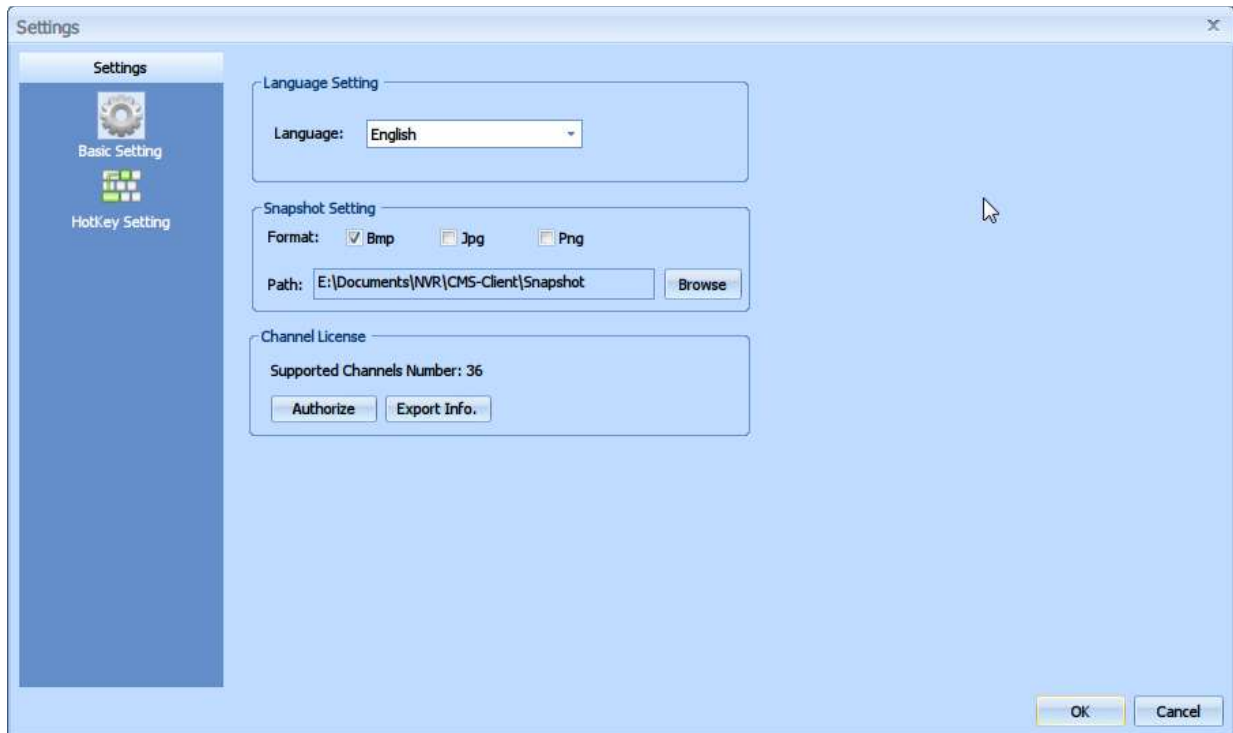


Basic Setting:

Users can change the **language**, **password**, **snapshot file format**, the **snapshot storage path**, and **upgrade the channel license** in Basic Setting.



Note: The default channels for CMS-Client are 36 channels. To have more channels managed, users must be licensed by uploading the license key file.

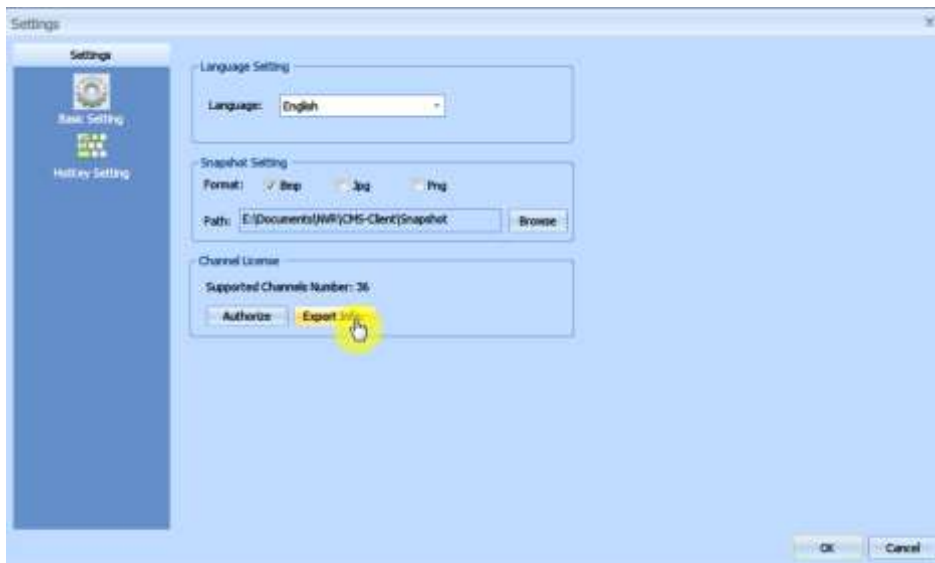


There are 3 sections in Basic Setting:

1. **Language Setting:** select available languages from the menu.
2. **Snapshot Setting:** select the snapshot format (multiple choices) and browse the snapshot saving path.
3. **Channel License:** upgrade the channel license here

To upgrade channel license, users should follow these steps:

1. Click **Export Info** button first, and the “Save as” window would pop out.



2. Give a recognizable name to your *.ifo file, and select the saving path.



3. Send the *.ifo file and the number of channels you want to purchase to DIGIEVER Sales Team



4. Confirm the PI, and a license key file would be sent back to you



5. Click **Authorize** button, an “Open” window would pop out.

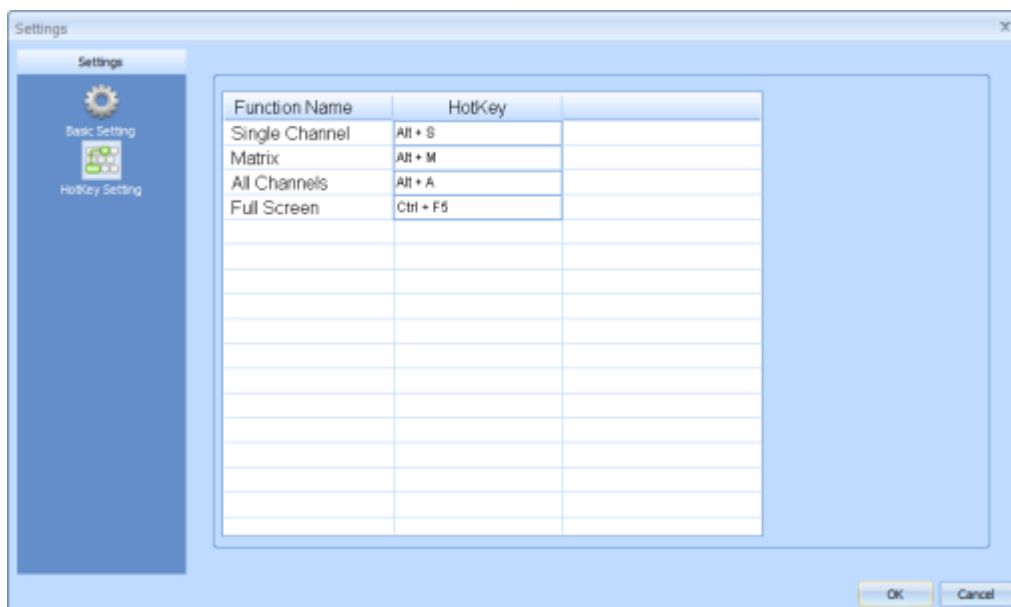


6. Browse the *.key file that you receive from DIGIEVER, and click **Open** button to upgrade your channel license.



Hotkey Setting:

Users can assign the hotkey to the frequently-used functions.



5.2.7 Liveview: Liveview Settings

In the **Liveview Settings** section of the Liveview tab, users can enable or disable the on-screen display (OSD) of the channel name and time on the video channels. Users can also enable or disable recording status display. Click **Delete All** to remove all videos from the channel window of the display mode.

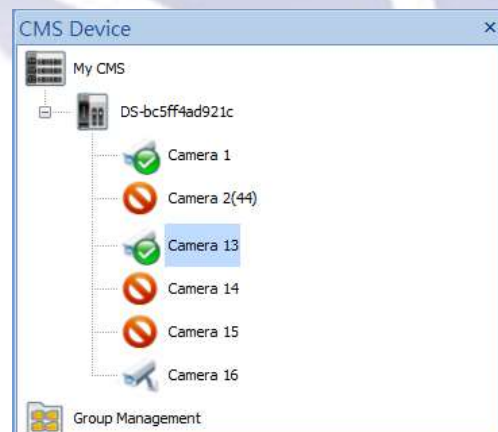


5.2.8 Liveview: Panel

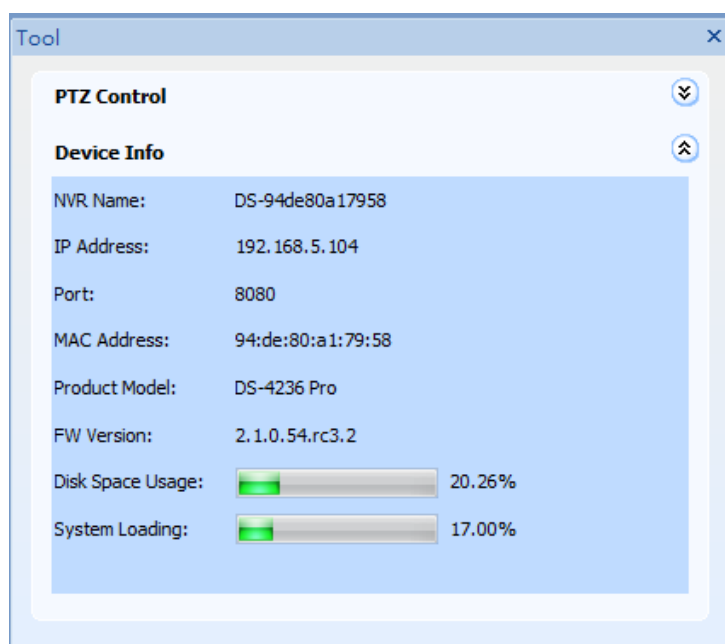
In the **Panel** section of the Liveview tab, users can enable or disable the display of the **Device Panel**, **Event Panel**, **Event Panel Tools** and **Tool Panel**.



The **Device Panel** shows the NVRs, cameras, favorite groups and layouts under management of the CMS-Client.



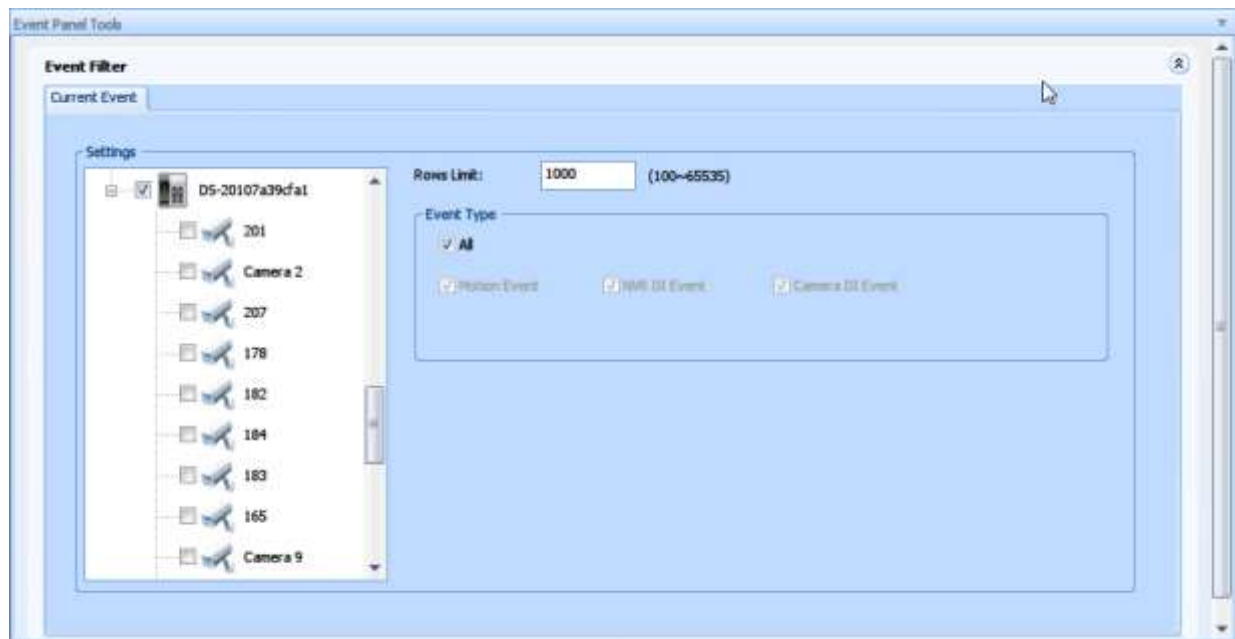
The **Tool Panel** shows PTZ control tool, and the device info tool.




The **Event Panel** shows the camera events for user's overview.








Instant Playback	Device Name	Local Receive Time	NVR Date & Time	Type	Description
	DS-94de80a17958/Gigasetcam m65...	2014-12-06 20:36:29	2014-12-06 13:36:29	Motion Event	Channel 1 (Gigasetcam m65) Motion Detection
	DS-94de80a17958/Gigasetcam m65...	2014-12-06 20:35:54	2014-12-06 13:35:51	Motion Event	Channel 1 (Gigasetcam m65) Motion Detection
	DS-94de80a17958/Gigasetcam m65...	2014-12-06 20:35:18	2014-12-06 13:35:17	Motion Event	Channel 1 (Gigasetcam m65) Motion Detection
	DS-94de80a17958/Gigasetcam m65...	2014-12-06 20:34:45	2014-12-06 13:34:42	Motion Event	Channel 1 (Gigasetcam m65) Motion Detection
	DS-94de80a17958/Gigasetcam m65...	2014-12-06 20:32:28	2014-12-06 13:32:28	Motion Event	Channel 1 (Gigasetcam m65) Motion Detection
	DS-94de80a17958/Gigasetcam m65...	2014-12-06 20:31:54	2014-12-06 13:31:52	Motion Event	Channel 1 (Gigasetcam m65) Motion Detection
	DS-94de80a17958/Gigasetcam m65...	2014-12-06 20:31:26	2014-12-06 13:31:18	Motion Event	Channel 1 (Gigasetcam m65) Motion Detection

The **Event Panel Tool** works as event filter, users can uncheck any NVR server or camera if they don't want to receive any event from the selected NVR servers or cameras

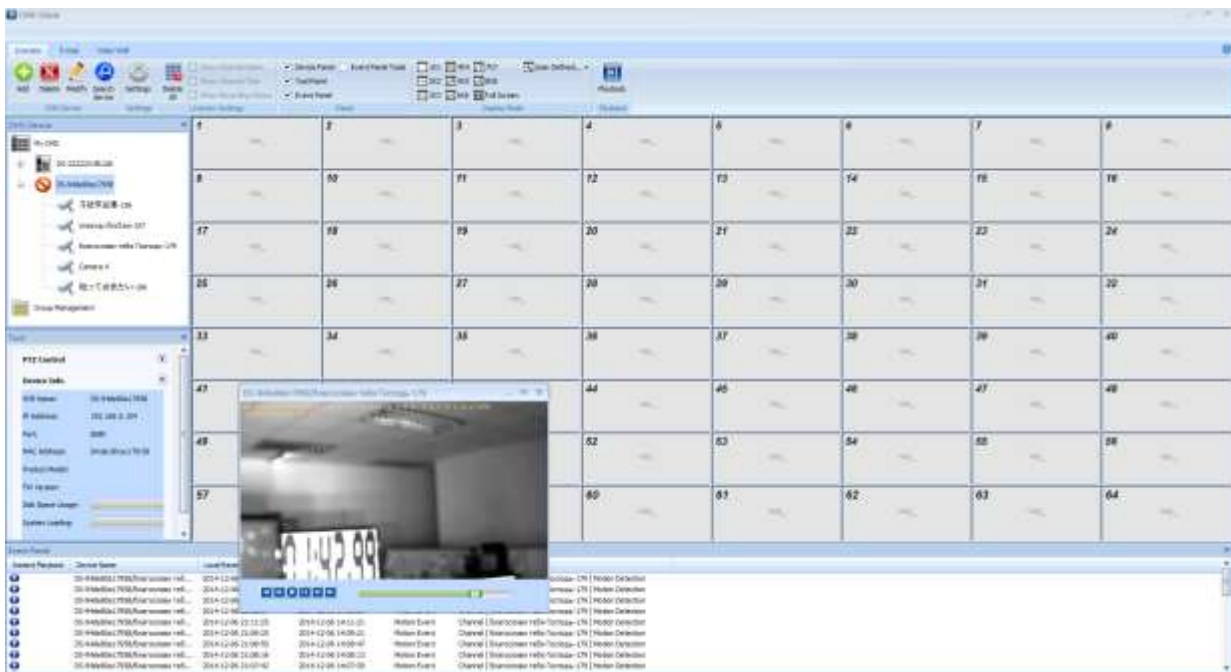


5.2.9 Liveview: Event Panel Instant Playback

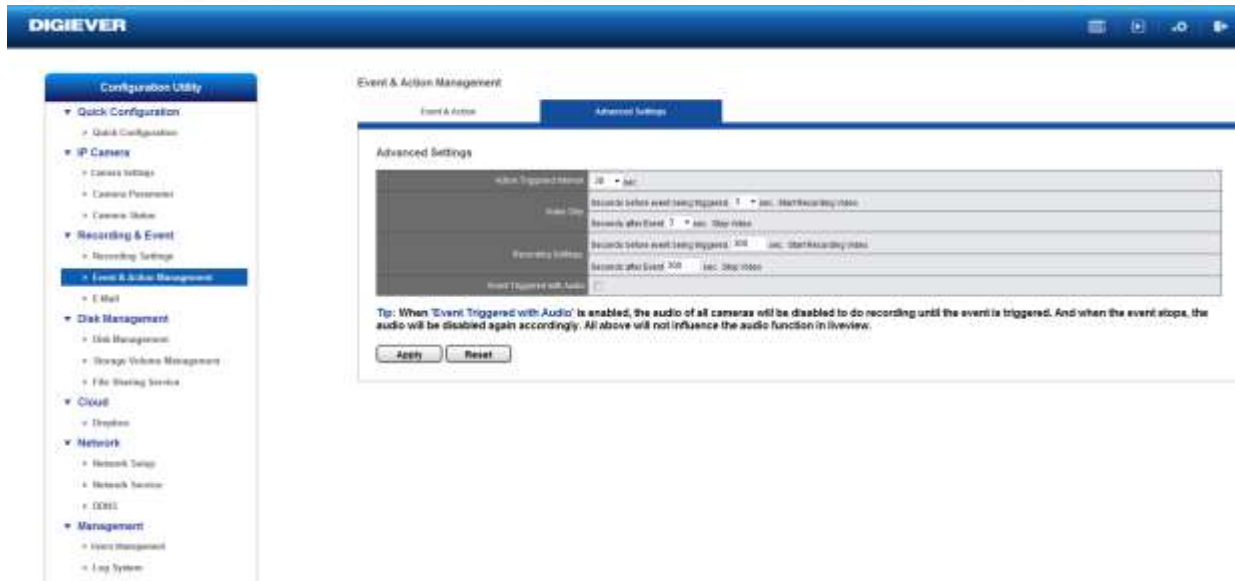
Users can launch instant playback from event log either by click the play icon  or **double click** on the event log.

Instant Playback	Device Name	Local Receive Time	NVR Date & Time	Type	Description
	05-944680a179586farscrosen ref...	2014-12-06 20:36:20	2014-12-06 13:36:25	Motion Event	Channel 1 (Sarscrosen refa Tachopa-179) Motion Detection
	05-944680a179586farscrosen ref...	2014-12-06 20:35:54	2014-12-06 13:35:51	Motion Event	Channel 1 (Sarscrosen refa Tachopa-179) Motion Detection
	05-944680a179586farscrosen ref...	2014-12-06 20:35:18	2014-12-06 13:35:17	Motion Event	Channel 1 (Sarscrosen refa Tachopa-179) Motion Detection
	05-944680a179586farscrosen ref...	2014-12-06 20:34:45	2014-12-06 13:34:42	Motion Event	Channel 1 (Sarscrosen refa Tachopa-179) Motion Detection
	05-944680a179586farscrosen ref...	2014-12-06 20:32:28	2014-12-06 13:32:26	Motion Event	Channel 1 (Sarscrosen refa Tachopa-179) Motion Detection
	05-944680a179586farscrosen ref...	2014-12-06 20:31:54	2014-12-06 13:31:52	Motion Event	Channel 1 (Sarscrosen refa Tachopa-179) Motion Detection
	05-944680a179586farscrosen ref...	2014-12-06 20:31:30	2014-12-06 13:31:18	Motion Event	Channel 1 (Sarscrosen refa Tachopa-179) Motion Detection

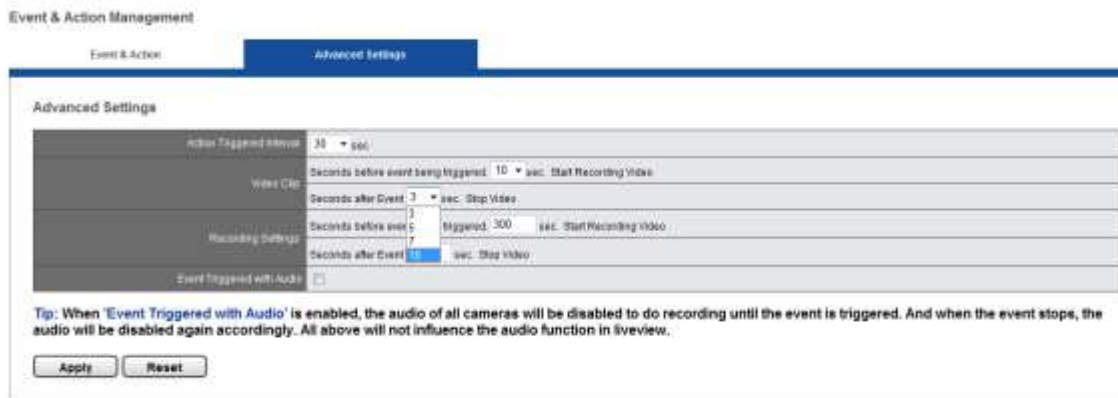
The default instant playback length is **6 seconds** for your quick review on the events happened recently.



Note: You can change this setting from NVR. You can go to NVR's configuration page, and navigate in the following step:



1. Navigate to **Event & Action Management** in the following sequence : **Configuration Utility >> Recording & Event >> Event & Action Management**
2. Click **Advanced Settings** Page, in the **Video Clip** option, you can change the settings. The default value is +/- 3 seconds around the event happen time, you can change it up to +/- 10 seconds.



In some situation, you may want to have a longer instant playback length to review more details on the event investigation. Users can also launch the instant playback from the right click menu

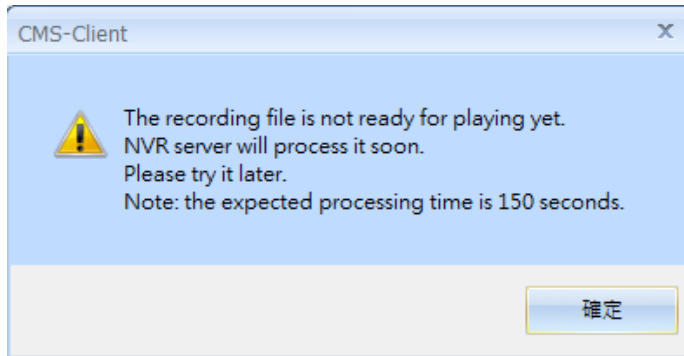
Event Panel						
Instant Playback	Device Name	Local Receive Time	NVR Date & Time	Type	Description	
	DG-94de80a17958/6narocrosh-te5...	2014-12-06 21:16:30	2014-12-06 14:16:27	Motion Event	Channel [6narocrosh-te5a /179] Motion Detection	
	DG-94de80a17958/6narocrosh-te5...	2014-12-06 21:15:56	2014-12-06 14:15:53	Motion Event	Channel [6narocrosh-te5a /179] Motion Detection	
	DG-94de80a17958/6narocrosh-te5...	2014-12-06 21:13:40	2014-12-06 14:13:37	Motion Event	Channel [6narocrosh-te5a /179] Motion Detection	
	DG-94de80a17958/6narocrosh-te5...	2014-12-06 21:13:07	2014-12-06 14:13:03	Motion Event	Channel [6narocrosh-te5a /179] Motion Detection	
	DG-94de80a17958/6narocrosh-te5...	2014-12-06 21:12:32	2014-12-06 14:12:29	Motion Event	Channel [6narocrosh-te5a /179] Motion Detection	
	DG-94de80a17958/6narocrosh-te5...	2014-12-06 21:11:57	2014-12-06 14:11:53	Motion Event	Channel [6narocrosh-te5a /179] Motion Detection	
	DG-94de80a17958/6narocrosh-te5...	2014-12-06 21:11:25	2014-12-06 14:11:21	Motion Event	Channel [6narocrosh-te5a /179] Motion Detection	
	DG-94de80a17958/6narocrosh-te5...	2014-12-06 21:09:25	2014-12-06 14:09:21	Motion Event	Channel [6narocrosh-te5a /179] Motion Detection	
	DG-94de80a17958/6narocrosh-te5...	2014-12-06 21:08:50	2014-12-06 14:08:47	Motion Event	Channel [6narocrosh-te5a /179] Motion Detection	

You can choose a longer instant playback length from **30 seconds, 1 minute, and 5 minutes**.



Note: There are two ways to launch Instant Playback Window. The difference between double-click launch and right-click-menu launch is the **average processing time**. Before Users can use instant playback, the recording file must be ready on the NVR server. A double-click launch takes a **shorter** process time than right-click-menu launch.

If the recording file is not ready yet, you may see this message window pop out:



Please try it later, the expected processing time is about 150 seconds for right-click-menu launch. On the other hand, the double-click launch takes a shorter time, no longer than 30 seconds.

5.3 E-Map

The following picture shows the E-Map user interface of the CMS-Client. Users can add multi-layer maps, put the camera icon(s) on the map to indicate the exact location(s), and see the pop-out video when the camera is triggered by an event.



5.3.1 E-Map: E-Map Group

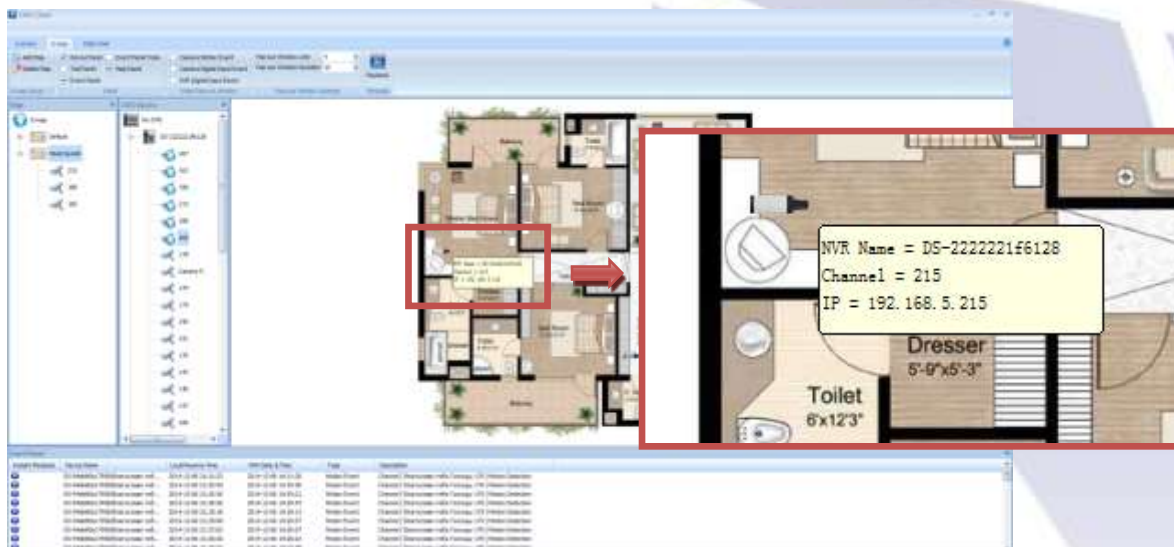
Users can add maps or delete maps in the E-Map Group section of the E-Map tab, or in the Map panel.



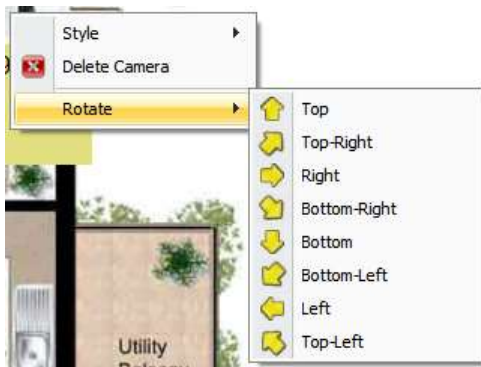
Note: Before clicking **Add Map** button in E-map group section, please click on the Map panel first. You should click its parent map first, and then click **Add Map** button to open the file browser to add new map.

5.3.2 E-Map: Adding/Deleting Camera on E-Map

To add a camera on the E-Map, please **click and drag** the camera from device panel to an appropriate location on the E-Map. Camera info will be displayed automatically, when you put the mouse cursor **on** the camera icon on the E-Map.

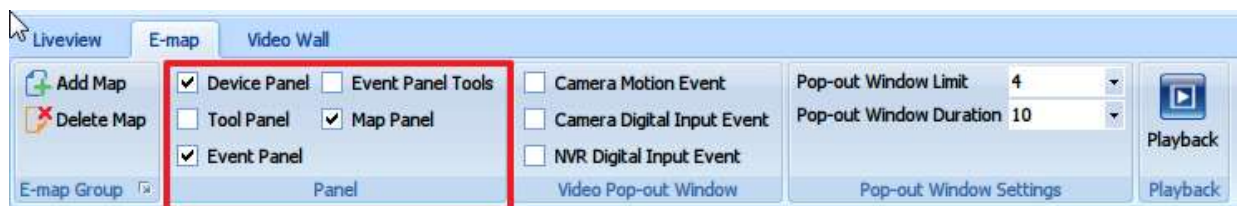


Users can also move a camera icon to different location, or **right click** on the camera icon to delete it, or change its **viewing direction**, or its **camera icon style**.



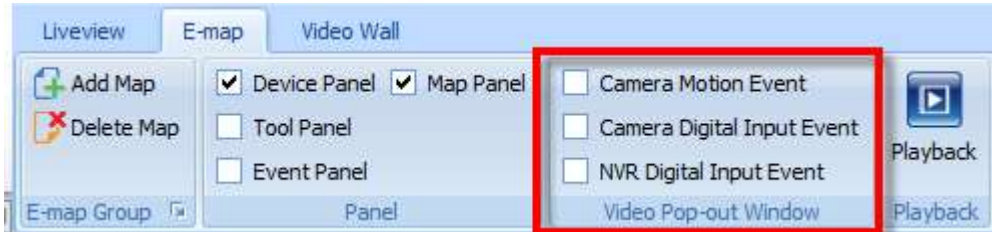
5.3.3 E-Map: Panel

In the **Panel** section of the E-Map tab, users can whether to display panels or not, including **Device Panel**, **Event Panel**, **Event Panel Tools** and **Information Panel**.



5.3.4 E-Map: Video Pop-out Window

In the **Video Pop-out Window** section of the E-Map tab, Users can decide what types of events to pop out video windows, when the specific type of event happens.



There are three types of event that support video pop-out window:

1. Camera Motion Event
2. Camera Digital Input Event
3. NVR Digital Input Event

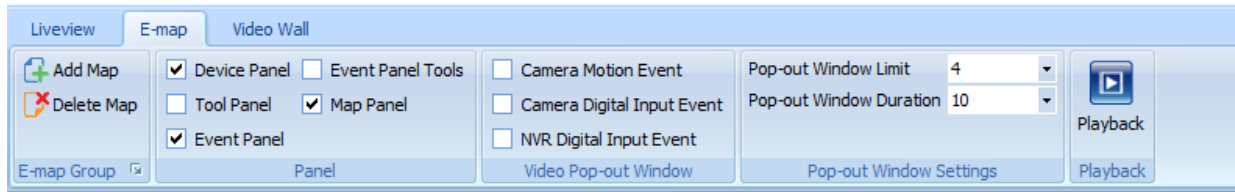
Check the checkbox for the three types of event to enable video pop-out window when specific event happens.



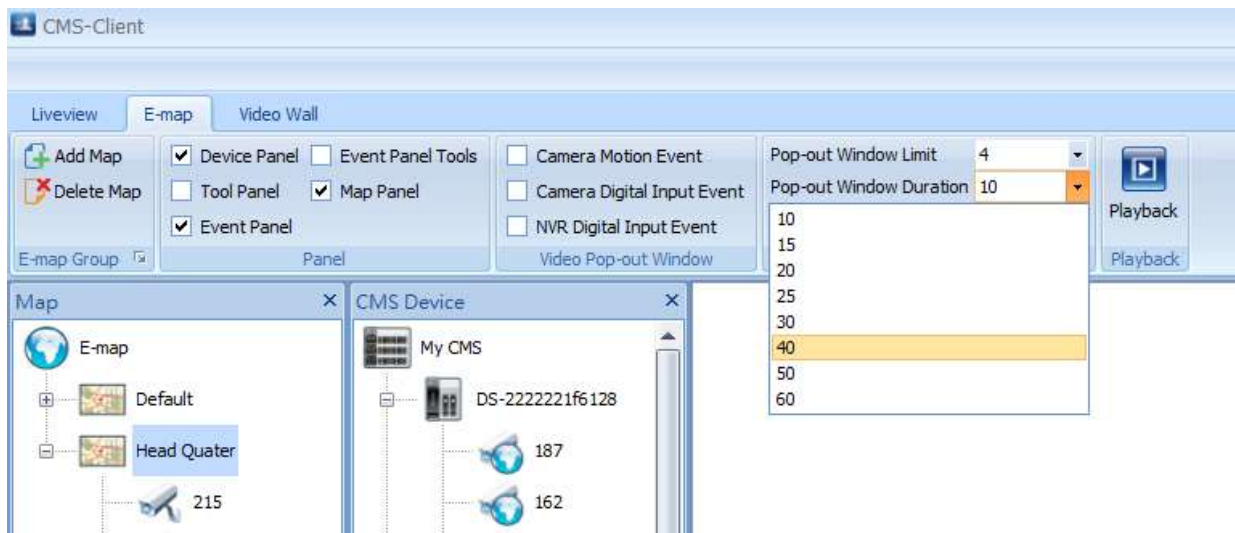
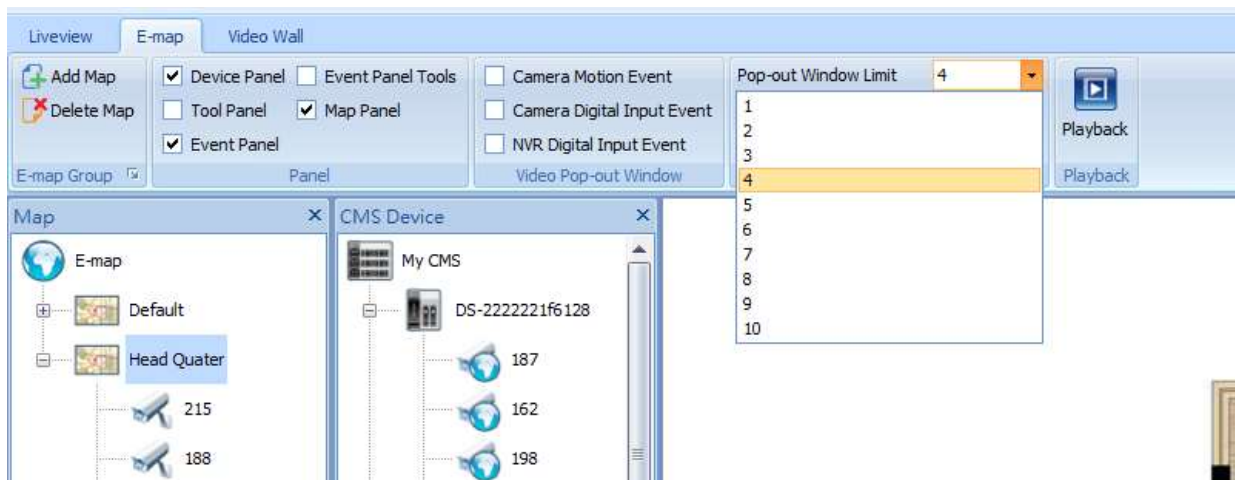
Note: When the checkbox for **NVR Digital Input Event** is checked, the cameras that satisfied **BOTH two** conditions would pop out:

1. The cameras belong to the NVR whose digital input is triggered, and
2. The cameras are on the current E-map


5.3.5 E-map: Pop-out Window Settings










Users can change the maximum numbers of Pop-out windows from 1 to 10. If you prefer a longer or short duration of pop-out window, users can also change the duration from 10 seconds to 60 seconds.

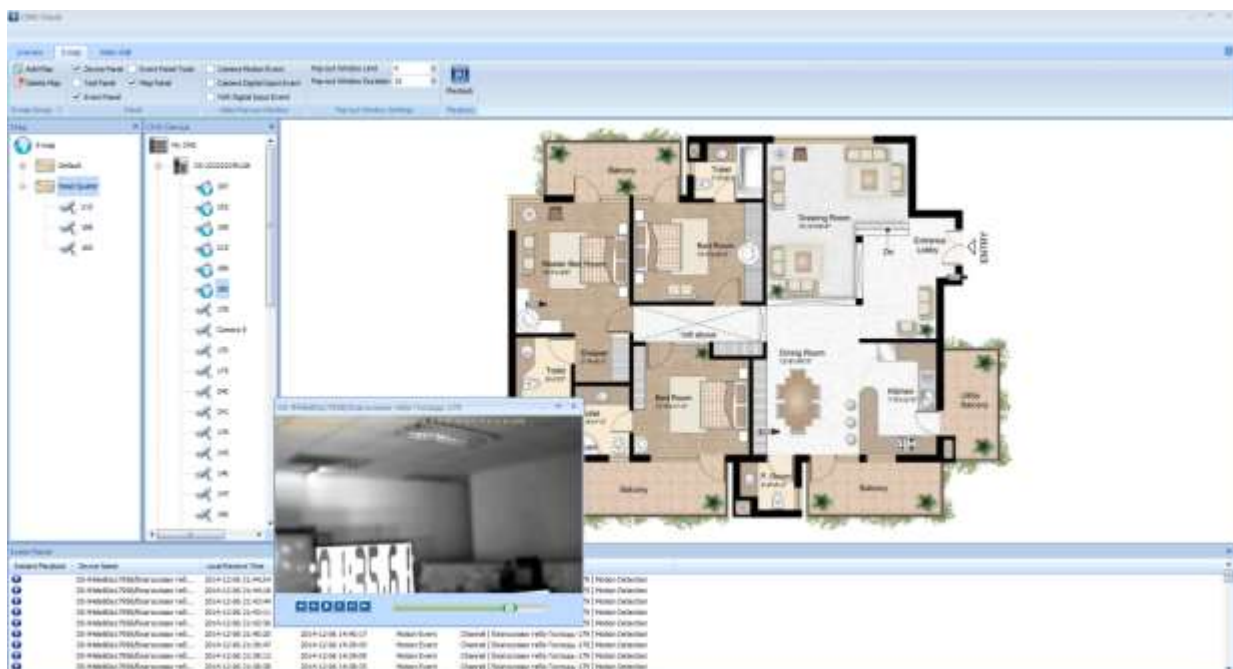



5.3.6 E-map: Event Panel Instant Playback

Users can launch instant playback from event log either by click the play icon  or **double click** on the event log.

Event Panel					
Instant Playback	Device Name	Local Receive Time	NVR Date & Time	Type	Description
	05-94680a17958f5nariscrow nrf...	2014-12-06 20:36:20	2014-12-06 13:36:25	Motion Event	Channel [05arscrow nrf5a Tachopa-179] Motion Detection
	05-94680a17958f5nariscrow nrf...	2014-12-06 20:35:54	2014-12-06 13:35:51	Motion Event	Channel [05arscrow nrf5a Tachopa-179] Motion Detection
	05-94680a17958f5nariscrow nrf...	2014-12-06 20:35:18	2014-12-06 13:35:17	Motion Event	Channel [05arscrow nrf5a Tachopa-179] Motion Detection
	05-94680a17958f5nariscrow nrf...	2014-12-06 20:34:45	2014-12-06 13:34:42	Motion Event	Channel [05arscrow nrf5a Tachopa-179] Motion Detection
	05-94680a17958f5nariscrow nrf...	2014-12-06 20:32:28	2014-12-06 13:32:28	Motion Event	Channel [05arscrow nrf5a Tachopa-179] Motion Detection
	05-94680a17958f5nariscrow nrf...	2014-12-06 20:31:54	2014-12-06 13:31:52	Motion Event	Channel [05arscrow nrf5a Tachopa-179] Motion Detection
	05-94680a17958f5nariscrow nrf...	2014-12-06 20:31:31	2014-12-06 13:31:18	Motion Event	Channel [05arscrow nrf5a Tachopa-179] Motion Detection

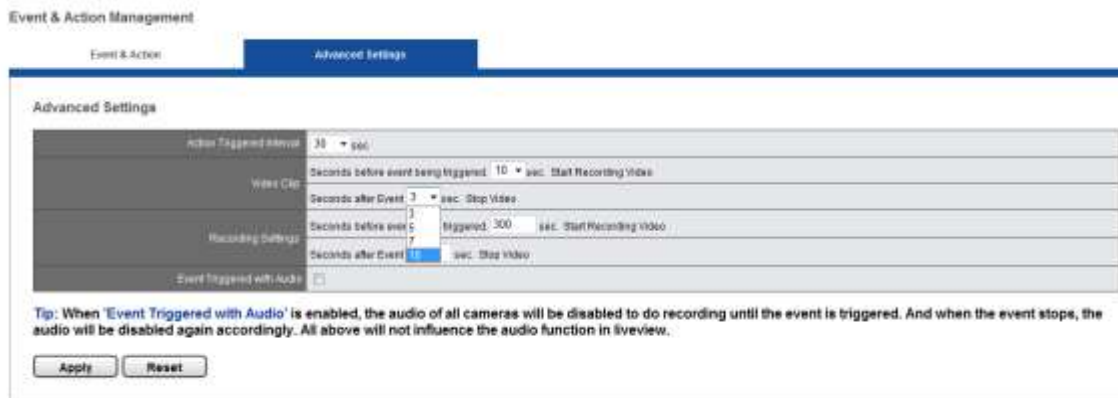
The default instant playback length is **6 seconds** for your quick review on the events happened recently.



 **Note:** You can change this setting from NVR. You can go to NVR's configuration page, and navigate in the following step:



1. Navigate to **Event & Action Management** in the following sequence : **Configuration Utility >> Recording & Event >> Event & Action Management**
2. Click **Advanced Settings** Page, in the **Video Clip** option, you can change the settings. The default value is +/- 3 seconds around the event happen time, you can change it up to +/- 10 seconds.



In some situation, you may want to have a longer instant playback length to review more details on the event investigation. Users can also launch the instant playback from the right click menu

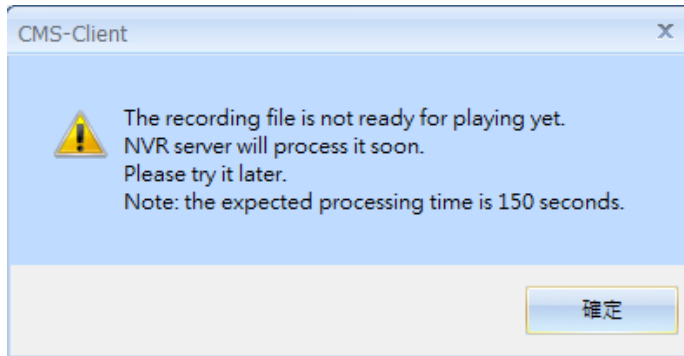
Event Panel						
Instant Playback	Device Name	Local Receive Time	NVR Date & Time	Type	Description	
	DG-94de80a17958/българският...	2014-12-06 21:16:30	2014-12-06 14:16:27	Motion Event	Channel [българският тебя Господи-179] Motion Detection	
	DG-94de80a17958/българският...	2014-12-06 21:15:56	2014-12-06 14:15:53	Motion Event	Channel [българският тебя Господи-179] Motion Detection	
	DG-94de80a17958/българският...	2014-12-06 21:13:40	2014-12-06 14:13:37	Motion Event	Channel [българският тебя Господи-179] Motion Detection	
	DG-94de80a17958/българският...	2014-12-06 21:13:07	2014-12-06 14:13:03	Motion Event	Channel [българският тебя Господи-179] Motion Detection	
	DG-94de80a17958/българският...	2014-12-06 21:12:32	2014-12-06 14:12:29	Motion Event	Channel [българският тебя Господи-179] Motion Detection	
	DG-94de80a17958/българският...	2014-12-06 21:11:57	2014-12-06 14:11:53	Motion Event	Channel [българският тебя Господи-179] Motion Detection	
	DG-94de80a17958/българският...	2014-12-06 21:11:25	2014-12-06 14:11:21	Motion Event	Channel [българският тебя Господи-179] Motion Detection	
	DG-94de80a17958/българският...	2014-12-06 21:09:25	2014-12-06 14:09:21	Motion Event	Channel [българският тебя Господи-179] Motion Detection	
	DG-94de80a17958/българският...	2014-12-06 21:08:50	2014-12-06 14:08:47	Motion Event	Channel [българският тебя Господи-179] Motion Detection	

You can choose a longer instant playback length from **30 seconds, 1 minute, and 5 minutes**.



Note: There are two ways to launch Instant Playback Window. The difference between double-click launch and right-click-menu launch is the **average processing time**. Before Users can use instant playback, the recording file must be ready on the NVR server. A double-click launch takes a **shorter** process time than right-click-menu launch.

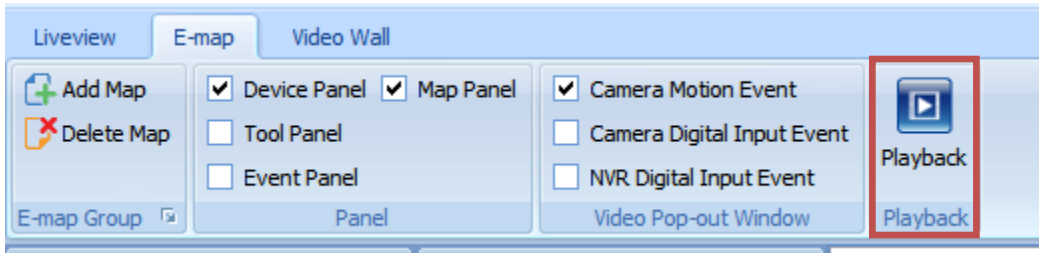
If the recording file is not ready yet, you may see this message window pop out:



Please try it later, the expected processing time is about 150 seconds for right-click-menu launch. On the other hand, the double-click launch takes a shorter time, no longer than 30 seconds.

5.4 Playback

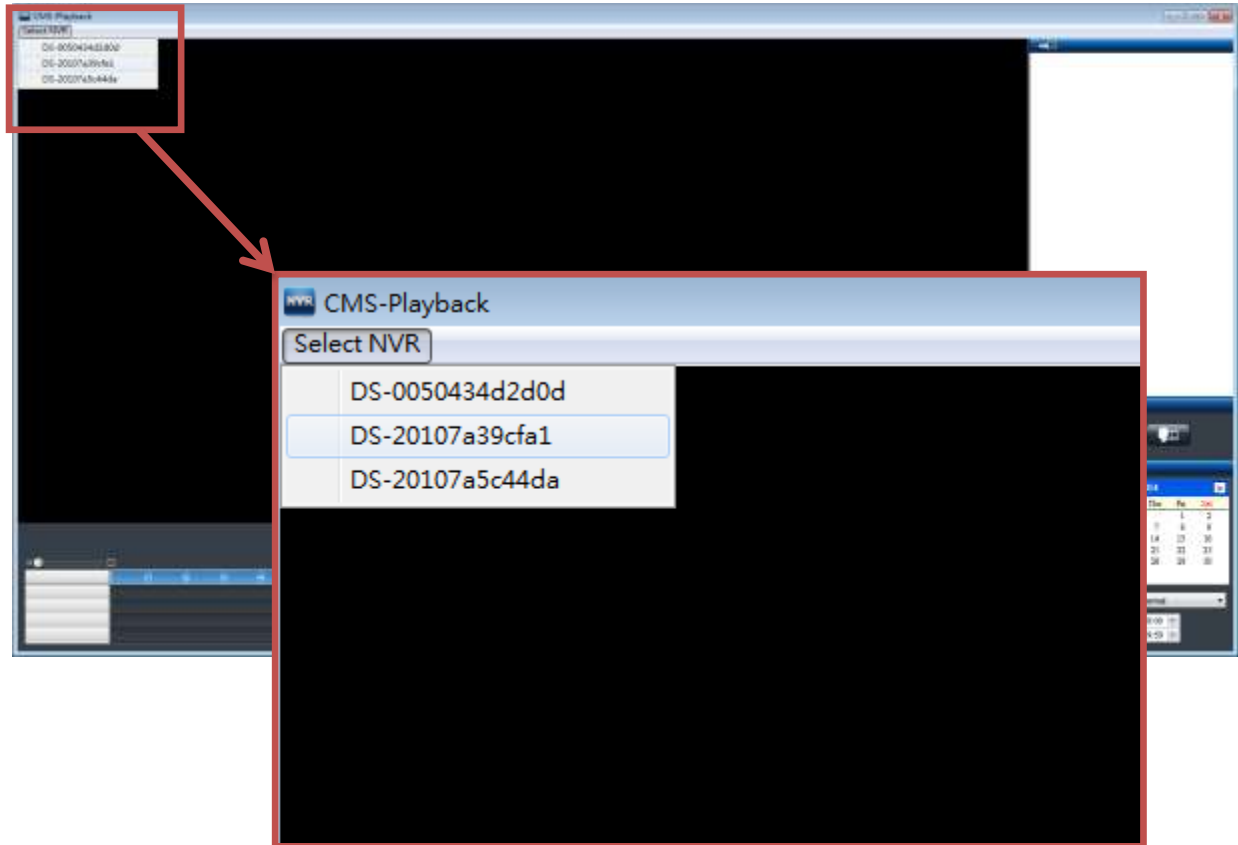
You can playback videos by clicking **Playback** icon from each tab of CMS-Client.



When playback function is running, you can still operate Liveview, E-map, or Video Wall setting. If your PC supports more than one monitor, you can assign the playback window to another monitor, to fully utilize the advantage of multi-monitors to increase the monitoring efficiency.

5.4.1 Playback: Select NVR


Please click “**Select NVR**” on the top-left menu to select a NVR for playback recorded videos. You can change NVR selected by clicking **Select NVR** menu, and choose another NVR to load its recording data. It is necessary to connect CMS-Client to NVR so as to playback recorded videos from NVR.

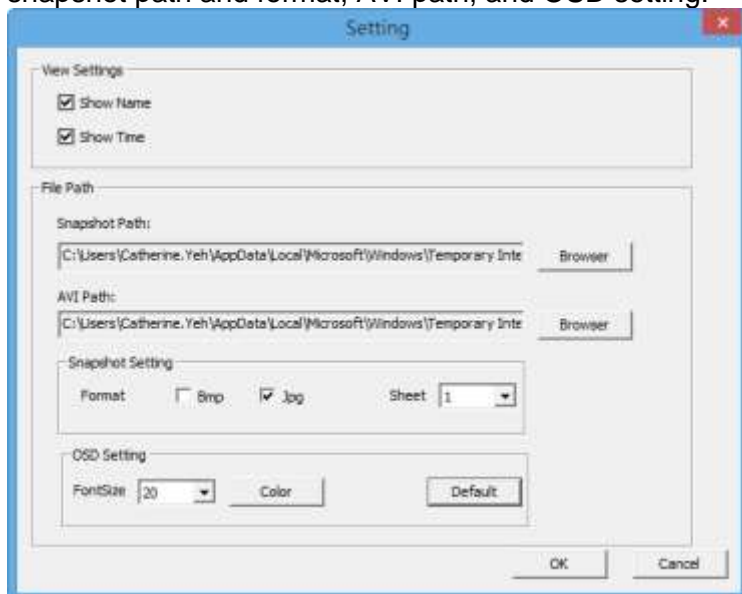


5.4.2 Playback: Playback Videos

Before viewing recorded videos, “**Setting**”  button is offered to set recorded videos for playback.



- **Setting:**  Please click the button to set view settings and file path such as snapshot path and format, AVI path, and OSD setting.

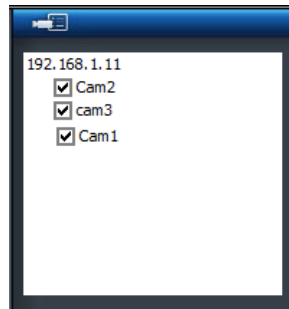


Please follow four steps below to quickly search recorded videos:

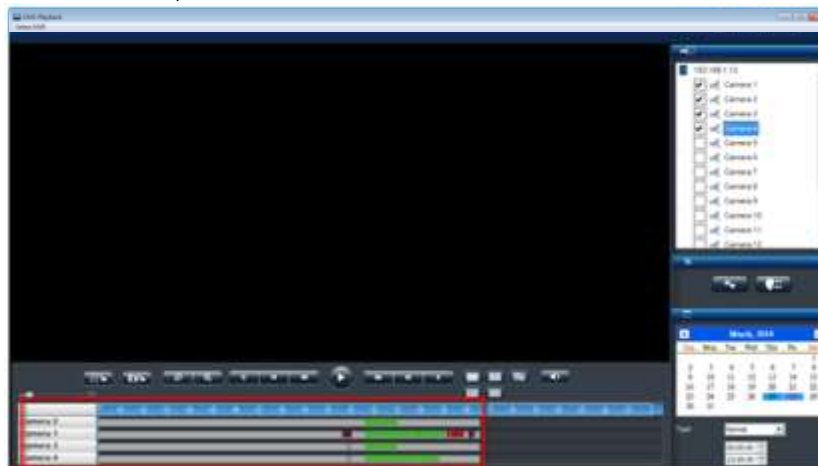
1. Select cameras from camera list
2. Select date and time period
3. Select recording type
4. Click “**Play**”

1. Select cameras from camera list

Please select channel number from channel list to search recorded videos. Up to 4 channels can be selected at the same time.



Once the camera is selected, the time line will be shown on time table

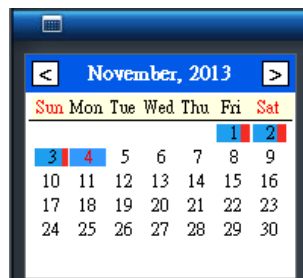


2. Select date and time

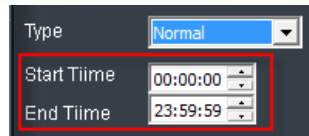
Please select the date to search recorded videos. The date marked in blue has recorded video.



If there is an event recording in the specific date, the date will be remarked as blue with red stripe aside.



Users can also select specific time period from time searching list (start time to end time.) Start time and end time layout is **Hour: Minute: Second**.

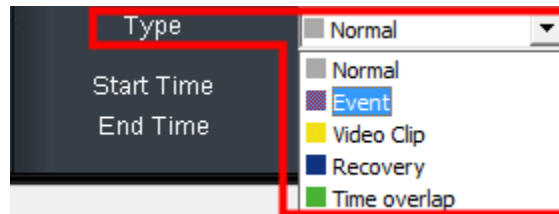


Type: Normal
Start Time: 00:00:00
End Time: 23:59:59

The default time period is from 00:00:00 to 23:59:59.

3. Select recording type

Users can select five types of video file which is also displayed in Time table. These five types of video file are distinguished from different colors in time table: **Normal (Gray)**, **Event (Red)**, **Video Clip (Yellow)**, **Recovery (Blue)** and **Time overlap (Green)**. Default recording type is Normal.



Type: Normal
Start Time
End Time

- Normal
- Event
- Video Clip
- Recovery
- Time overlap

With the changing of recording types, time table will present in different color in remote browser.

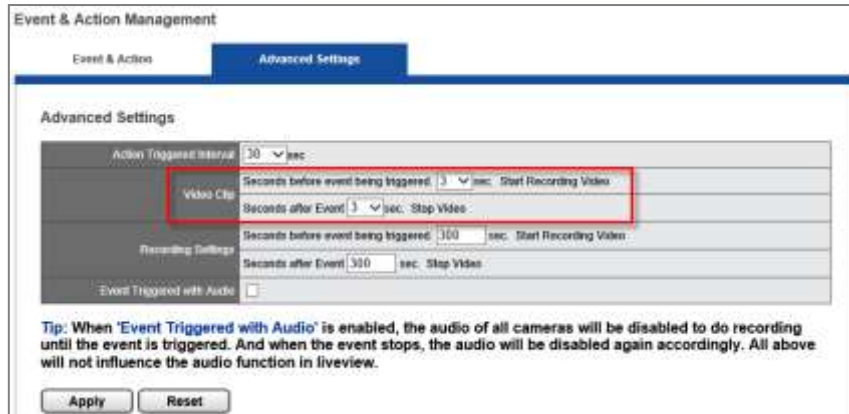


4. Click “Play”

Please click the play button  to start playback.

• The description of recording types:

- 1) **Normal (gray):**
Normal Record means there is no special conditions happened such as event, time overlap. It helps users to know at that time whether NVR has recorded videos or not.
- 2) **Event (red):**
Event means at least an event is triggered at that time, which helps users to efficiently find event recorded videos. To save videos in event type of recording videos, please set up event setting in advance. For more information, please refer to **5.2.3** 錯誤! 找不到參照來源。
- 3) **Video Clip (yellow):**
Video Clip means a brief video clip set by user to manage on event triggered recording file, allowing to be sent by E-mail as well and user can change the Pre-time (up to 10 sec.) and Post-time (up to 10 sec.) in NVR's Configuration Page> Recording & Event> Event & Action Management > Advanced Settings as below:



4) **Recovery (blue):**

Recovery file is generated once the NVR server resumes working once the power electric back. This is special unique and advanced feature of NVR.

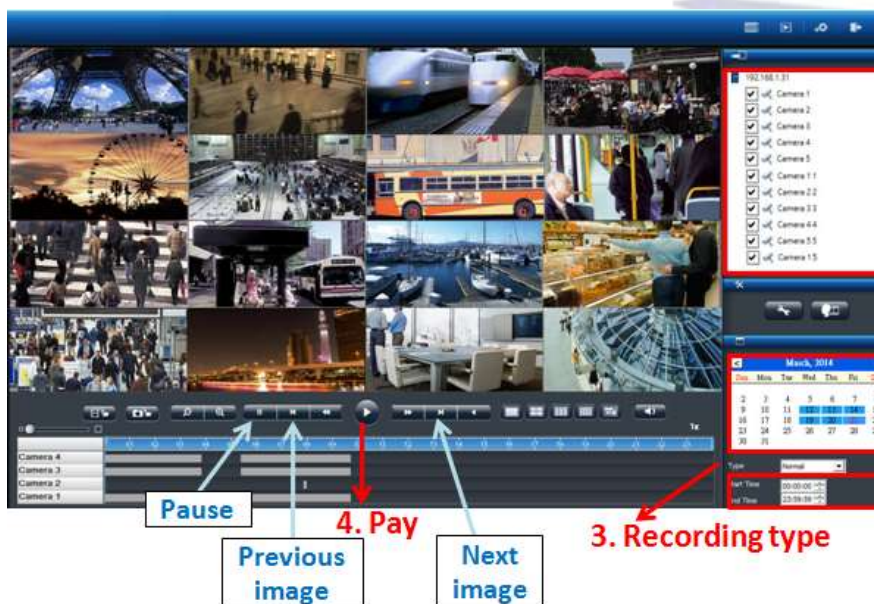
For an example, when the premises was broken into and the main power switch was cut, there was a period of critical time of recording files were captured by IP camera but it was not insufficient time to be converted the temp video files to be wrote into hard disk drive. Once the NVR server gets power resume, the NVR is able to generate a so-called Recovered File and save on hard disk drive. User can then find out the critical evidence clips if the camera successful captured the scenario.

5) **Time Overlap (green):**

Time Overlap file is generated once NVR server's time is changed during recording task. For examples, using NVR's built-in NTP server to synchronize a required time, or alter the NVR server time manually, or change the time zone and enable daylight saving time.

Frame by Frame Playback

- 1 Follow above four steps of Playback
- 2 Click "Pause" button
- 3 Click "Previous frame" or "Next frame" button



- **Scale bar**

Users can move the bar to enlarge or narrow down time period to check video files from Time table.



- **Seek bar**

By moving seek bar, users can go to the specific recording time directly. Time is shown above seek bar to provide time reference.



- **Thumbnail in Playback**

With thumbnail function in the playback, users can move the pointer of the mouse to the footage and the snapshot of the specific time will be shown.

It helps users easier to locate the period of time for play the recording file.

From the thumbnail, users can also read the related information such as date, time and camera name.

The thumbnail will be shown while pointer moves on the footage.



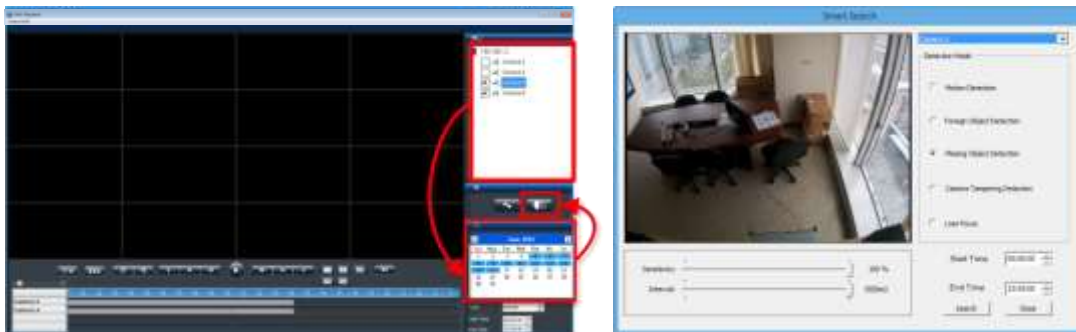
5.4.3 Playback: Smart Search

In addition to intuitive multi-channel playback, Smart Search can efficiently save users' precious time to find out key video moment without wasting extra effort and energy. Smart Search offers five quick search modes: **motion detection**, **foreign object detection**, **missing object detection**, **camera tampering detection** and **lose focus**.

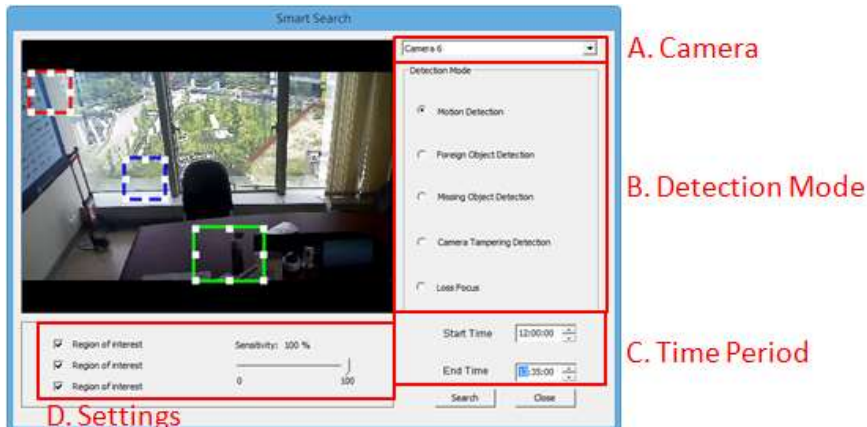
Smart Search



Please select cameras from camera list and the date that you would like to execute smart search. Then, click “**Smart Search**” button. A window will pop up to start smart search configuration.




Select a **specific camera**, **detection mode**, **time period** and **settings**. Then, click “**Search**” button to start smart search.



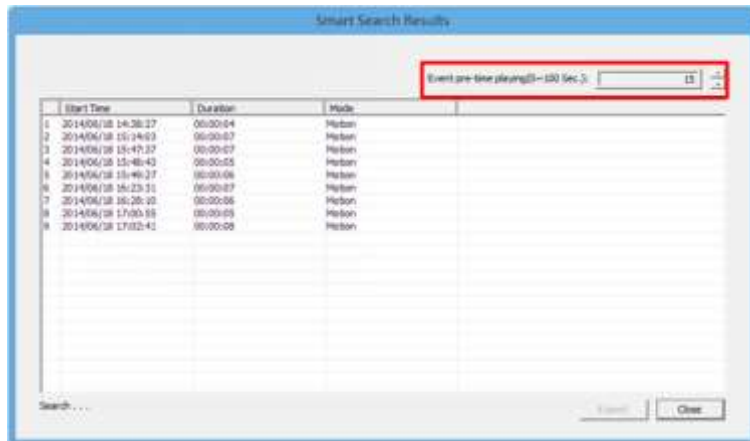
Introduction of settings:

(1) **Region of interest:** the location for quick detection

 **Note:** Motion detection, foreign object detection and missing object detection are needed to arrange region of interest. Except motion detection which has 3 region of interest, others one have one region of interest.)

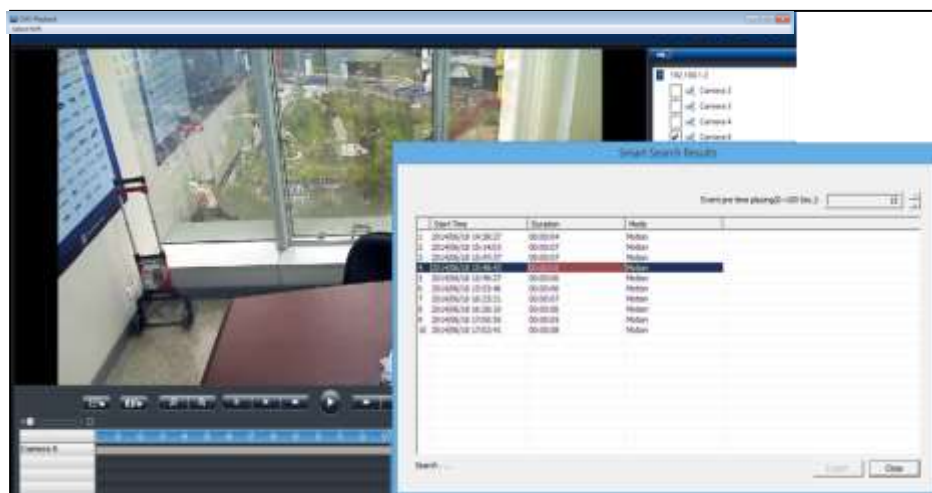
(2) **Sensibility**: the capability to detect event

(3) **Interval**: the amount of time that the object exists in the region

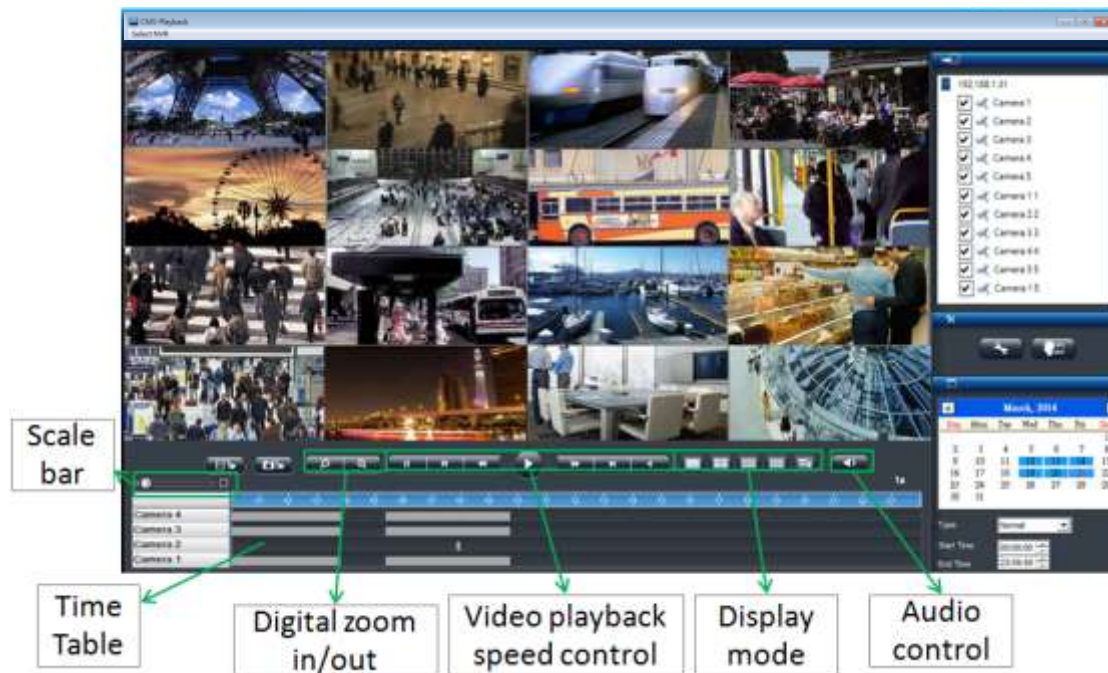


The smart search result window will pop-out. Users can set up **event pre-time playing** to playback the video before the event

Please double-click on one of the smart search result to play the video.








5.4.4 Playback: Main Functions



1. Display mode

NVR supports multi-display modes for playback. When you click a display mode, the mode icons will turn into blue.

Icon	Description
	Full Screen
	1 screen
	4 screen
	9 screen
	16 screen

2. Video playback speed control



- (1) **Pause:** to temporarily stop the playback.
- (2) **Previous Image:** to show the earlier image.
- (3) **Slow motion:** to play in slower speed.
- (4) **Play:** to play video file.
- (5) **Fast forward:** to play in faster speed.
- (6) **Next image:** to show the next image
- (7) **Rewind:** to let video automatically wind backward

The play speed status is beside display mode.



3. Mute control

Users can choose whether to play audio when playback videos. The button will change icon appearance while clicking:



4. Digital zoom out and digital zoom in




The image can also return to previous sizes by clicking the digital zoom out button.

The image can be enlarged by clicking digital zoom-in button.

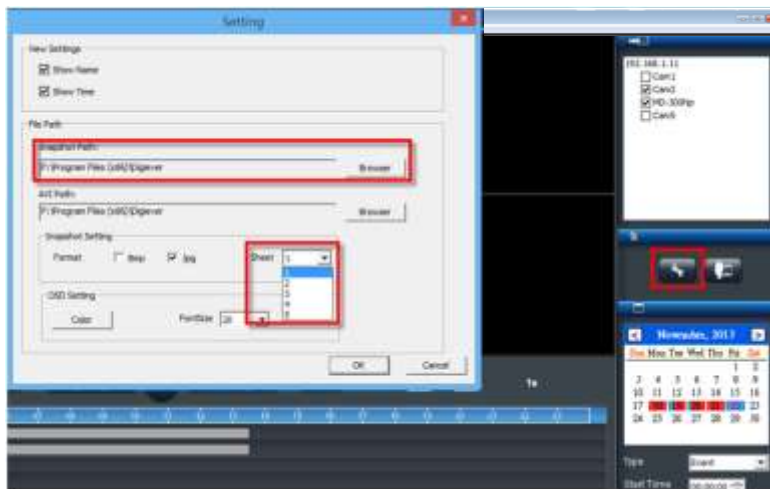
5. Snapshot

Users can save the image of playback by clicking “**Snapshot**”.

Before taking snapshot from NVR, users are recommended to set snapshot path from “**Setting.**” 

- **Sequential snapshot in remote playback**

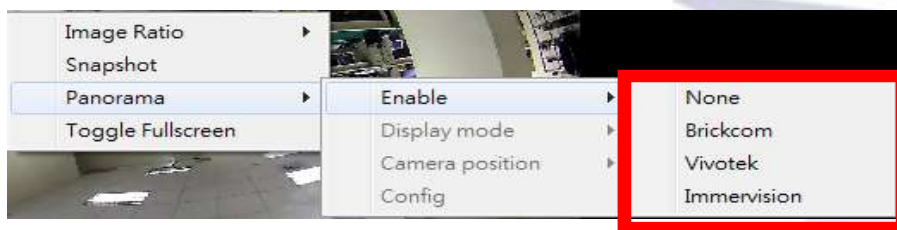
Users can have the sequent images from recording video while in playback, which helps users to catch the key frame in the recording files. It can be setup up to 5 sequential snapshots.



6. Dewarp for fisheye cameras

By right click on the video, users can choose the proper dewarp engine for fisheye camera.

a. Choose the dewarp engine:

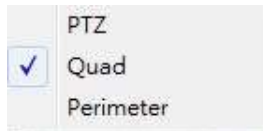


b. Choose the mounting type






c. Choose the display mode

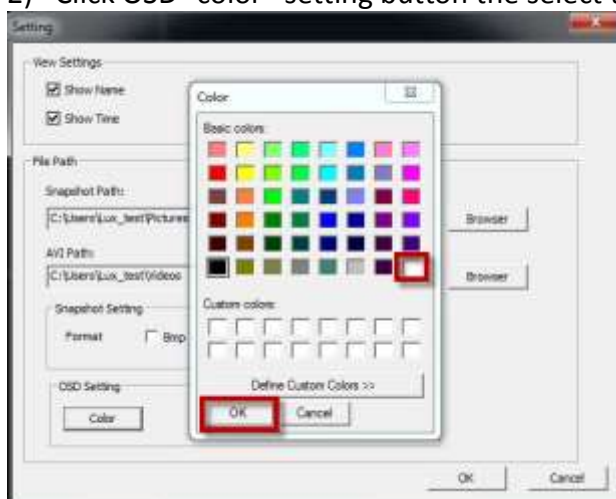


7. Change OSD color and font size

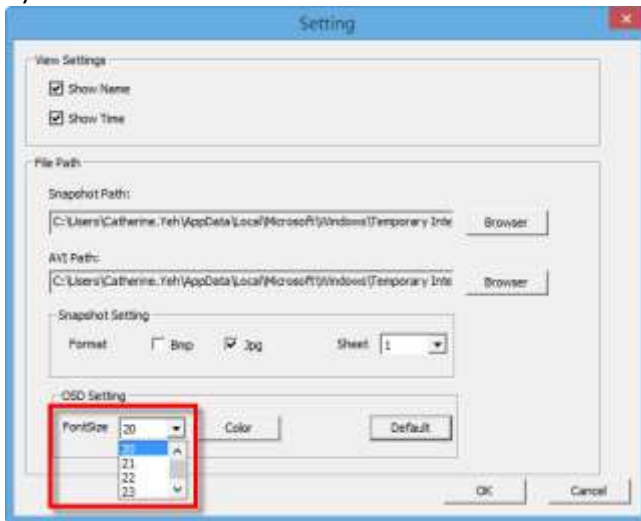
Users can select different OSD color while having the playback of recording files.



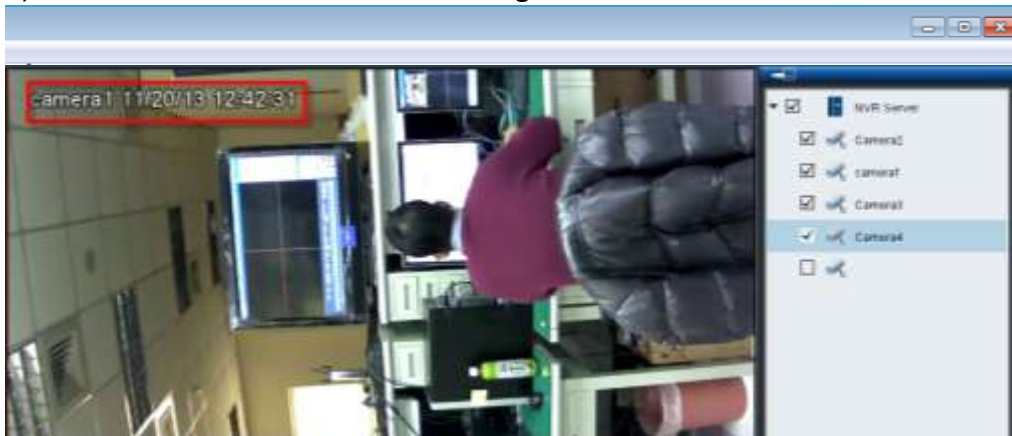
- 1) Click "Setting" 
- 2) Click OSD "color" setting button the select the OSD color and click "OK"



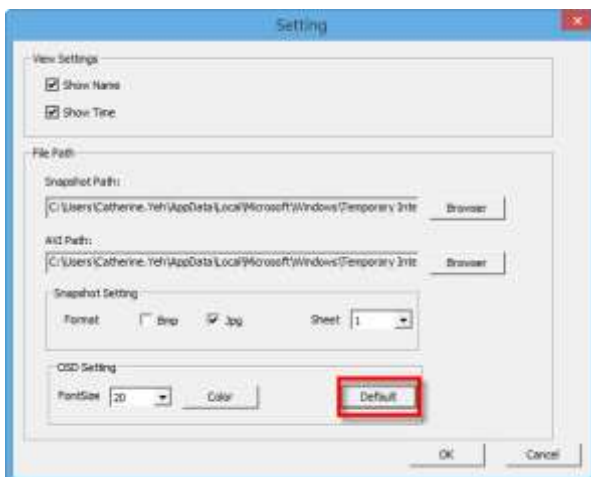
3) Select font size and click “OK”



4) OSD color and font size will be changed as below.



- Default button
By clicking “Default” button, users can default OSD setting. Default font size is 20 in orange color.



5.4.5 Playback: Zooming With Mouse Scroll

In addition to digital zoom in/out button, users can use mouse scroll to find out crucial proof in incident site in playback.



Zoom in/out: To click on the video window and use mouse scroll to enlarge the image.



View enlarged images:

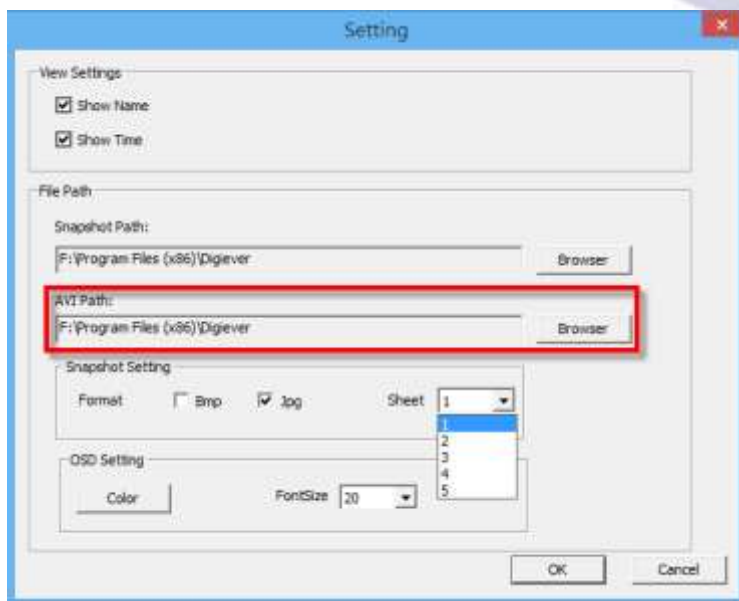
To press and hold left mouse button, drag the image to the place that you would like to monitor.

5.4.6 Playback: Export Files

Export function  allows users to retrieve recorded files from the server. Before exporting file, users are recommended to set AVI path from “**Setting**” button. 

1. Select the Storage AVI Path

Playback setting page indicate the path where exported files, **NVRPlayer** and **NVRCheck** to be saved.



2. Select cameras and time period

Users can indicate which cameras and what time range is to export the recording file.

3. Start to export files from the NVR

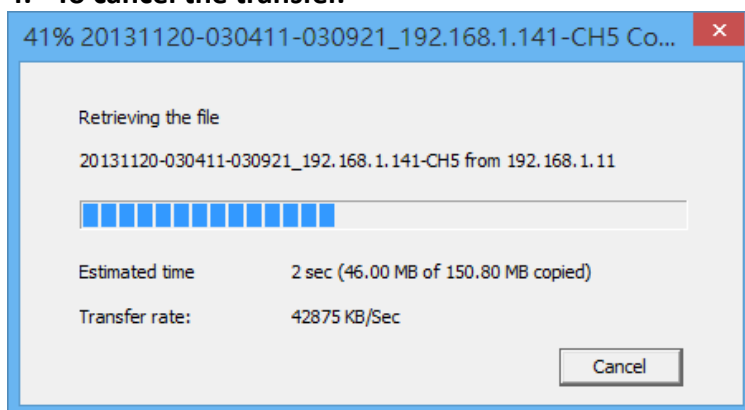
By pressing the Export button, the process of export will start.

NVRPlayer and NVRCheck will also be downloaded with video files.

⚠ NVRPlayer is the player of NVR recording file.

⚠ NVRCheck is the verification tool to verify if the recorded files are Originated from NVR.

4. To cancel the transfer.



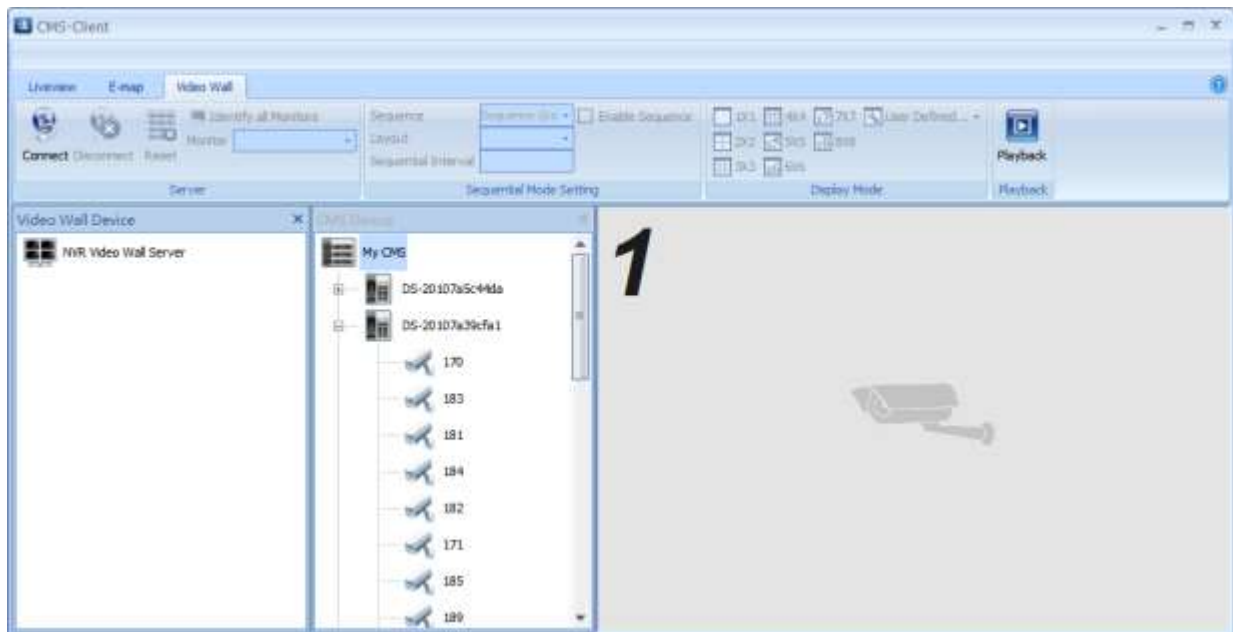
Users can cancel the files transferred while downloading files from NVR.

5.5 Video Wall

The following picture shows the **Video Wall** user interface of the CMS-Client.

5.5.0.1 A soft reminder: please run CMS-Matrix on computer first

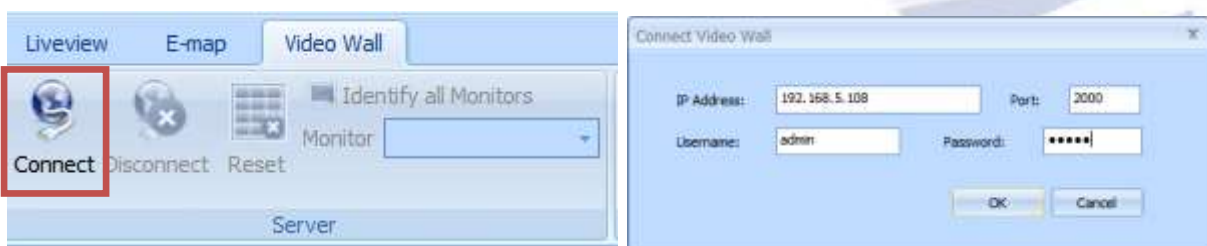
CMS-Client can be used as video wall configuration tool. It's strongly recommended to use another computer running CMS-Matrix for CMS-Client to connect.



5.5.1 Video Wall: Server

In the **Server** section of the Video Wall tab, users can connect /disconnect to the CMS-Matrix computer(s), assign different layout to each monitor on CMS-Matrix computer, etc.

To connect to a CMS-Matrix computer, please click **Connect**, and enter **IP address, port, username and password of the CMS-Matrix computer**. The default port number of CMS-Matrix computer is **2000**.

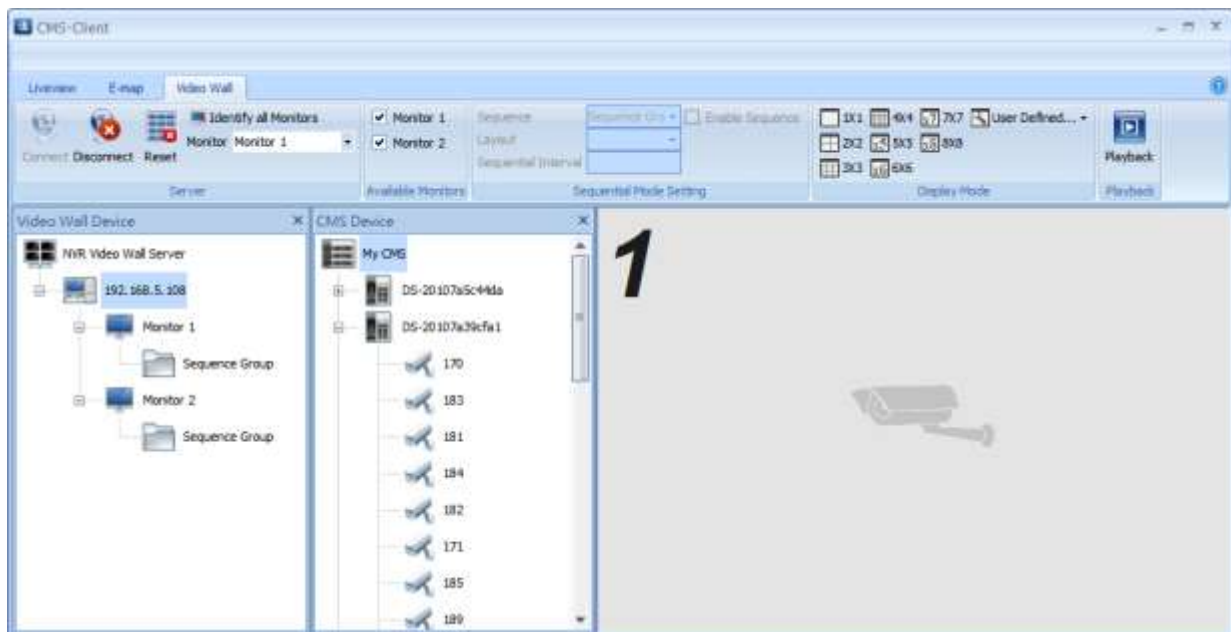




Note: Users can check the IP address of CMS-Matrix computer on the bottom-right corner of notification area, or right-click the video wall view to enter the configuration.



If a CMS-Matrix computer is successfully added to CMS-Client, the IP address of CMS-Matrix computer will be displayed in the **Video Wall Device** panel. Users can select the CMS-Matrix computer first and perform these functions: **Disconnect**, **Reset**, **Monitor**, **Identify all Monitors**.



Disconnect: Disconnect the selected CMS-Matrix computer.

Reset: Reset the CMS-Matrix settings of the selected monitor used by CMS-Matrix.

Monitor: If CMS-Matrix computer has more than 1 monitor, you can assign monitors to display videos. Users can select the monitor desired for use by CMS-Matrix.

Identify all Monitors: Display the monitor ID on each monitor connected to the CMS-Matrix computer.

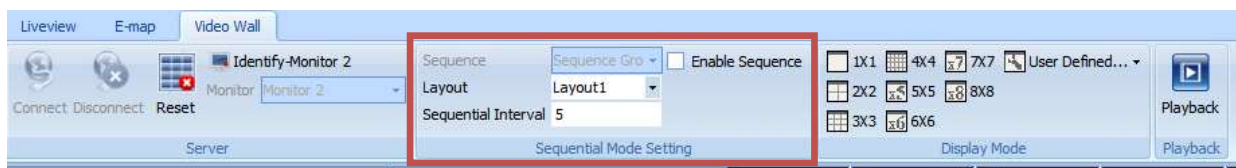
5.5.2 Video Wall: Available Monitors

In the **Available Monitors** section of the Video Wall tab, users can see the monitors connected to CMS-Matrix computer. The following picture shows that the CMS-Matrix computer 192.168.1.117 has 2 monitors. Users can decide whether the monitor is available for CMS-Matrix's usage or not.

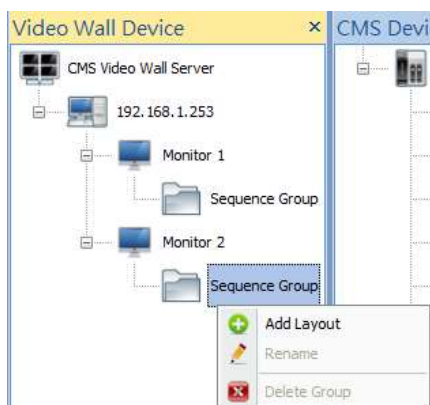


5.5.3 Video Wall: Sequence Settings

In the **Sequence Mode Settings** section of the Matrix tab, users can enable the sequential display function, manage multiple sequence groups, and define the interval for each layout in the sequence group.

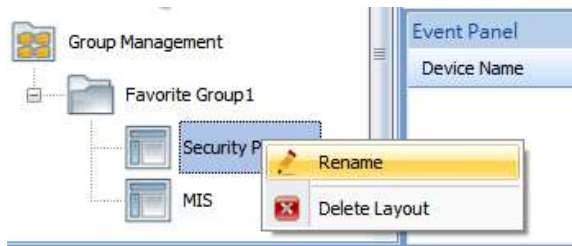


Each monitor has a sequence group, which allows users to set up multiple display modes.



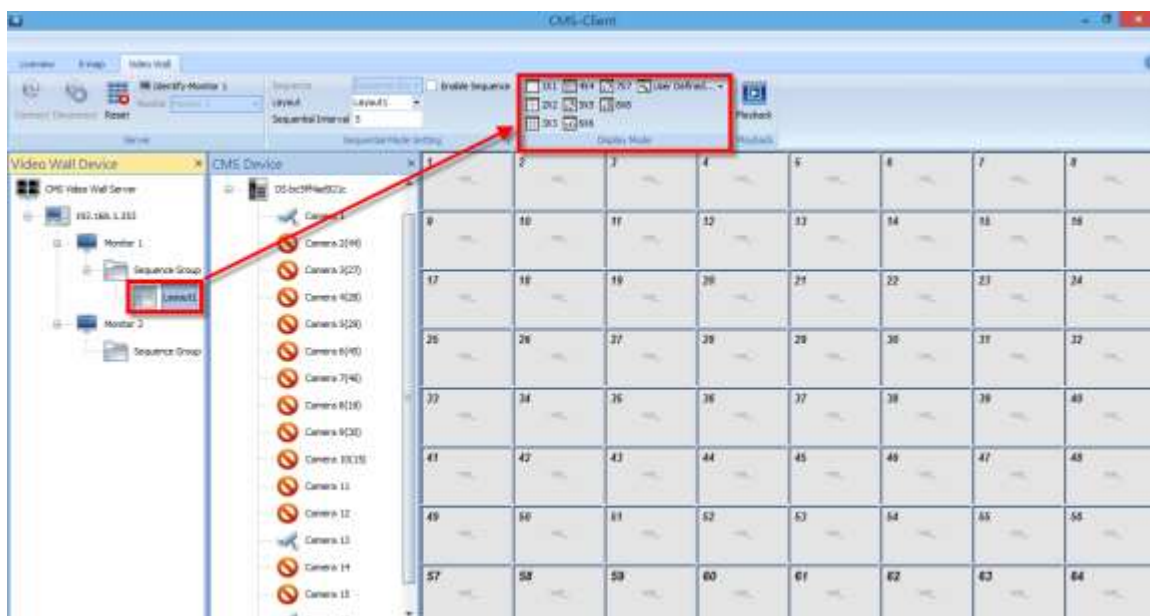
Please **right click** on **Sequence Group** in **Video Wall Device Panel**, and click **Add Layout**, to add a new layout. Please note that **more than one** layout can be added, and they can **all be effective**.

After a layout is added, users can **right click** on the layout to rename it or delete it.



● Define Layout

Please select the layout that you would like to define and then go to the **Display Mode** section to select a proper layout.



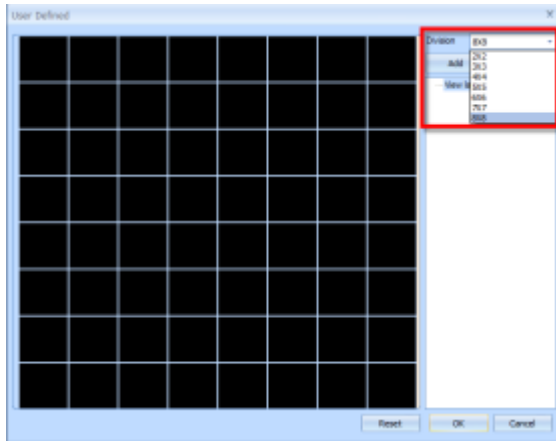
● User Defined Layout

Users can also design **Customized layout** by clicking “**User Defined.**” A window will pop up to let you define layout.

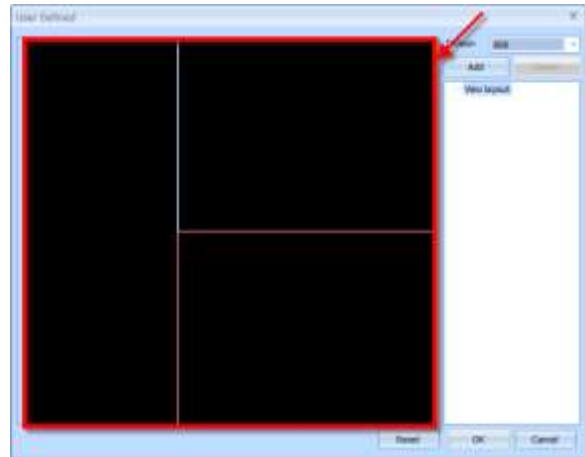


In the window, users can define the customized layout by selecting the proper division on the division drop-down menu, and selecting the items in the grid for combination.

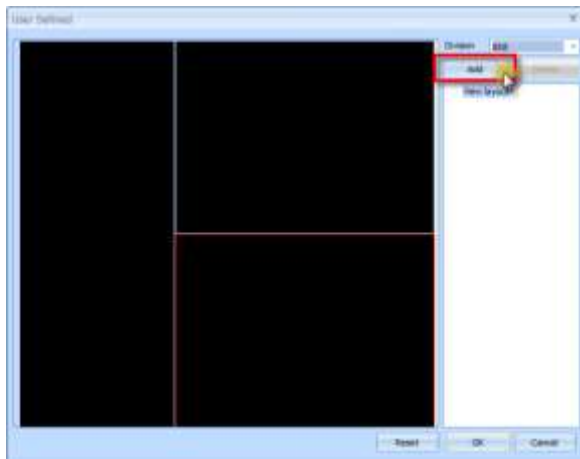
1. Choose a proper division to design



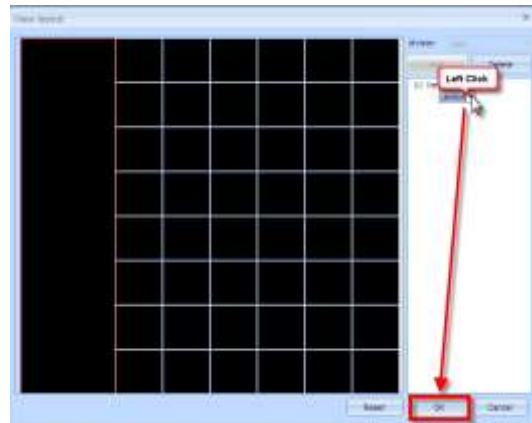
2. Design your layout.



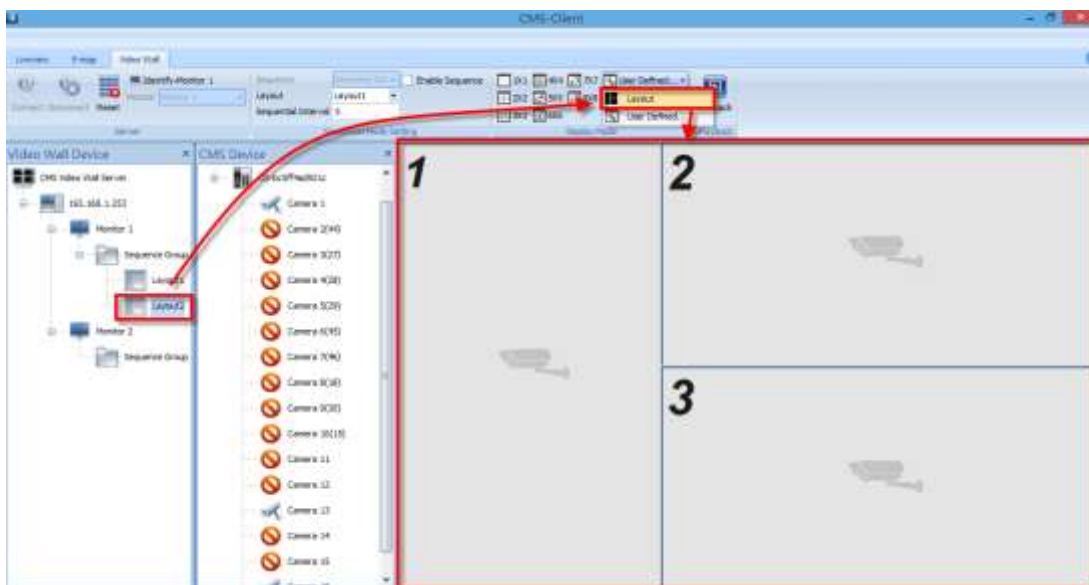
3. Click “Add” to add the new layout.



4. Left-click on the layout to rename it. And Click “OK” button to finish the setting.



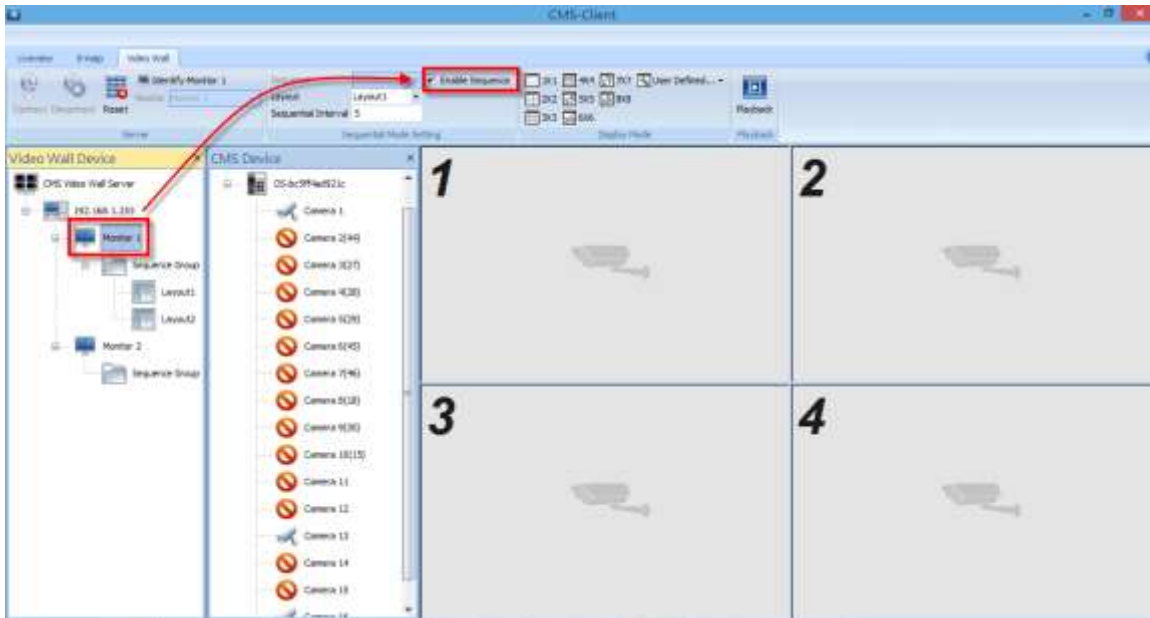
5. Select the desired layout for assignment. And assign the customized layout.



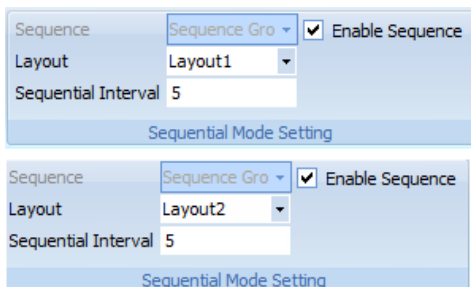
Each sequence group can have **multiple layouts**.

5.5.3.1 A soft reminder: enable sequence group

To active sequence setting, please enable “**Enable Sequence**” to enable sequence mode on this monitor.



The interval time of each layout can be set differently for different usages.



Chapter 6: CMS-Matrix Configuration

6.1 How to purchase the CMS-Matrix License

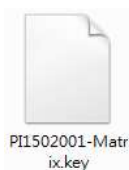
1. Please send the CMS-Matrix license request to your DIGIEVER sales manager.
2. The quote and PI will be issued accordingly, also the CMS-Matrix software download link. Please confirm order, and download the software.
3. Important! Please have the computer that will be actually used for CMS-Matrix first. And install CMS-Matrix software on this computer.
4. Once installation is done, please launch the CMS-Matrix software.
5. A pop up window will be showed as below. Please click on "Export Info" to generate the .ifo file from this computer.



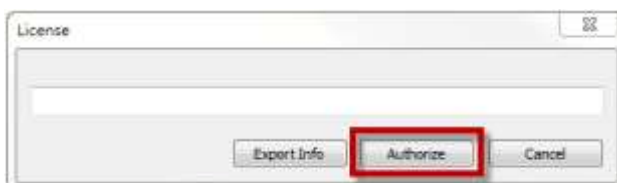
6. Please save the file and send it to your DIGIEVER sales manager. (You may name it with PI no., for example "PI150XXXX-Matrix.ifo")
7. Send this .ifo file to your DIGIEVER sales manager, in order to process the license key accordingly

6.2 How to authorize CMS-Matrix with License Key

1. Once order and payment confirmed, and .ifo file is provided, DIGIEVER will provide the relevant CMS-Matrix License Key file to you.



2. Please launch the CMS-Matrix software on the same computer, which exported the .ifo file. A pop up window will be showed as below. Please click on "Authorize" and upload the .key file.

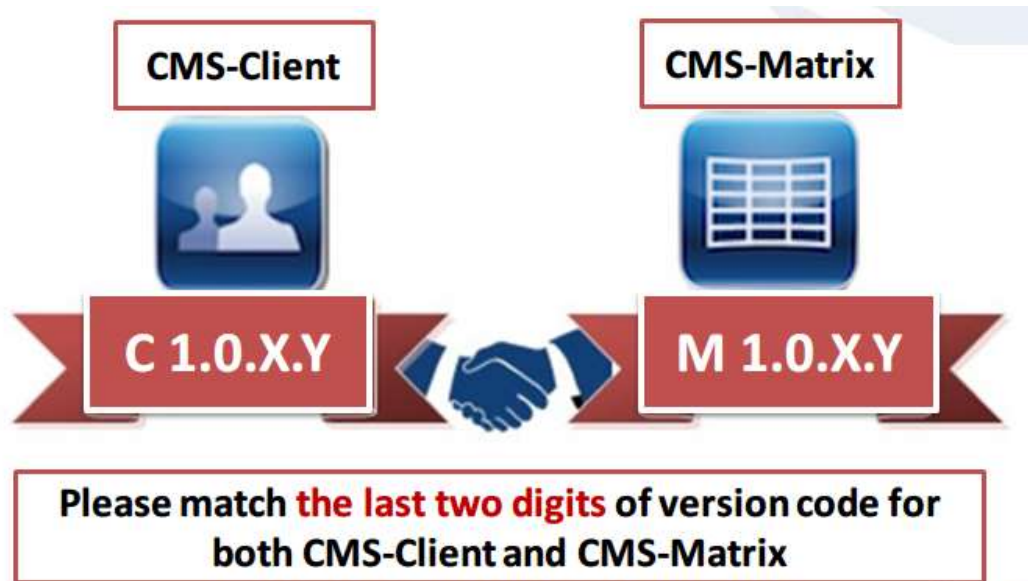


3. CMS-Matrix is authorized now.

6.3 Match the version

CMS-Matrix, as optional video wall software, works with CMS-Client software. It is strongly suggest installing CMS-Client and CMS-Matrix on independent computers, due to performance concerns.

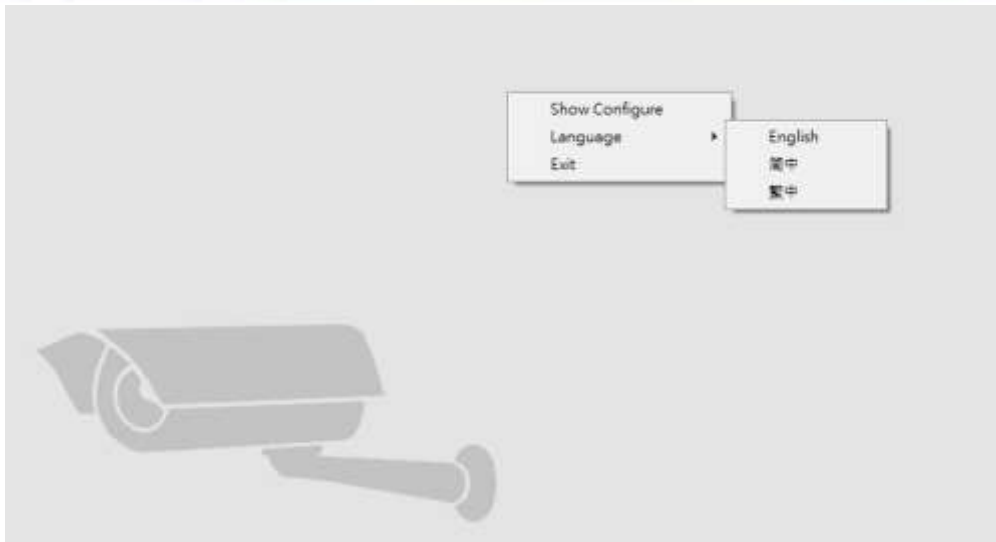
CMS-Matrix software version has to match CMS-Client software version, in order to work normally. Please check with DIGIEVER for more details



6.4 Open CMS-Matrix's Configuration Window

When the CMS-Matrix is launched, all the computer's monitors will be under control of CMS-Matrix, and it will be always in full screen mode and minimized into system tray. There will be a CMS-Matrix icon sitting on the system tray for users to access the settings.

To open CMS-Matrix menu for configuration, you can **right click** anywhere from the full screen view of CMS-Matrix:



If CMS-Matrix is not in full screen mode, you can still access the configuration menu from system tray.

To open CMS-Matrix menu from system tray, you need to show windows bar first. .

In Windows 7:

1. Press "Windows Key" from your keyboard to show "Windows bar"



In Windows 8:

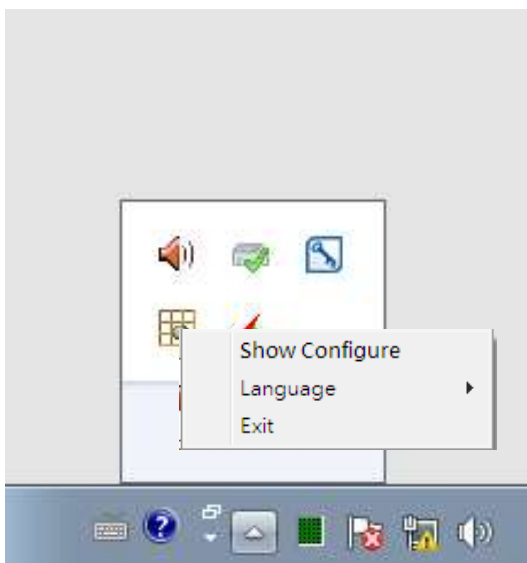
1. In Windows 8, Press "alt + Tab" to show "Windows bar"



2. After “Windows bar” is showed, go to system tray to find CMS-Matrix.



3. CMS-Matrix icon is on the system tray; **right click** on it to show available options:



On the CMS-Matrix configuration page, users can change the following connection information for CMS-Client:

- The account name (**default: admin**),
- Password (**default: admin**)
- Port number (**default: 2000**)

You can also get the following information from CMS-Matrix configuration dialog:

- Version of CMS-Matrix
- Computer name of the PC on which CMS-Matrix is running
- IP Address of the PC on which CMS-Matrix is running
- Port of the PC on which CMS-Matrix is running

