



LABS

λ | C O R T E X
VMS

User's Guide

Version 1.0



WELCOME

Thank you for purchasing one of our industry leading QVIS products. This user's guide is for the PC version of the λ| **Cortex VMS** remote monitoring software

Once installed upon a PC workstation, you will be able to remotely connect to your NVR either via the same local network or via the wide area network (if your PC workstation is connected to the Internet). The λ| Cortex VMS software provides you with the ability to monitor each camera as part of your CCTV network and to also scrutinise the footage in closer detail using the EPTZ function (Electronic Pan Tilt Zoom).

It is an easy to use and clearly defined user interface, which will provide you an efficient work flow. Peace of mind will be achieved with you knowing that your property or valuables can still be constantly monitored.

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1. Downloading the software

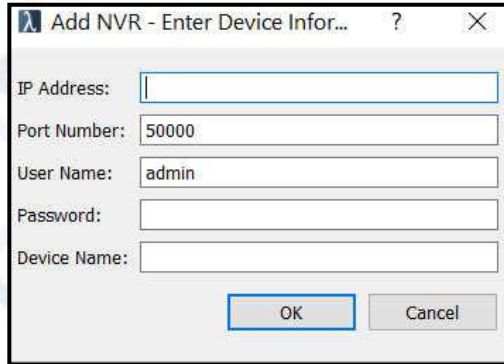
- **Search the Software:** Go to google search engine and type 'cortex vms' and press Enter key. Clicking on '**PC Software - λ | Cortex**' will open new page as shown below.



- **Download the software:** Depending on the Operating System, click on the required link. It will open pCloud page. On this page clicking on 'Direct download' to download to installation software under '**Downloads**' folder of your computer.
- **Install the Software:** Double click on downloaded installation file. Follow step by step installation instructions to complete a full install of λ | Cortex VMS software.

2. Adding an NVR to your device list

When you open a software, a dialog box will open in the center of the screen (see below) for you to add the NVR device information to which you want to connect.



A dialog box titled "Add NVR - Enter Device Information" with a question mark icon and a close button. It contains five input fields: "IP Address:" (empty), "Port Number:" (50000), "User Name:" (admin), "Password:" (empty), and "Device Name:" (empty). At the bottom are "OK" and "Cancel" buttons.

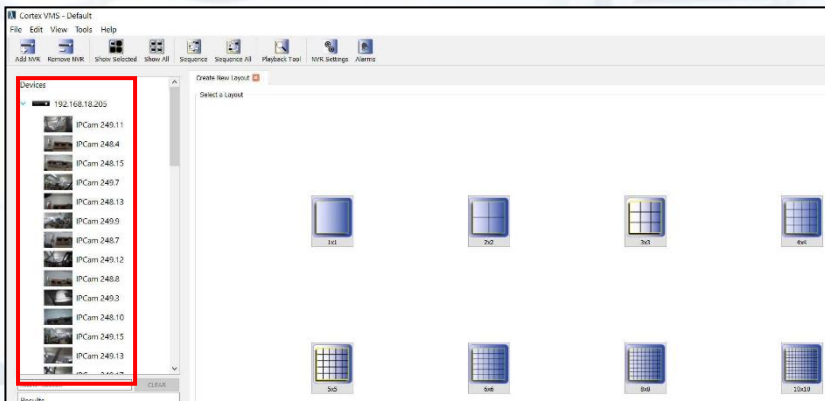
IP Address: This is the IP address / domain name assigned to the NVR during installation.

Port Number: This is the Port number assigned to the NVR during installation.

User Name and Password: Assigned in NVR. There can be multiple users with limited privileges and these same privileges carry over to the λ Cortex VMS as well.

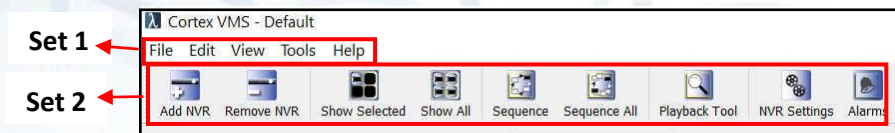
Device Name: If the NVR has been named, enter it here.

After clicking "OK" the NVR and cameras will appear on the left side of the screen (as highlighted by the red box below).



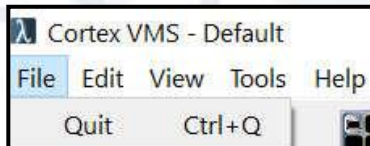
3. Interface features and functions

There are two sets of tool/menu bars used to operate the λ| Cortex VMS:

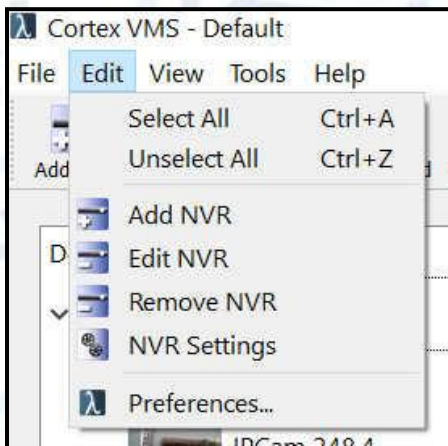


Set 1 Menu Bar:

File: When you click on this menu bar, a dropdown menu with a “Quit” option will come up. This will close λ| Cortex VMS.



Edit: This menu will give you ‘Select All’ & ‘Unselect All’ options along with a list of options to add NVR(s), edit NVR(s), remove NVR(s) and edit selected NVR’s settings (See ‘**SET 2 Tool Bar**’ on Page 8).



Select All: This option highlights the cameras in the matrix and allows them to be moved to different boxes by clicking on the box and dragging and dropping it.

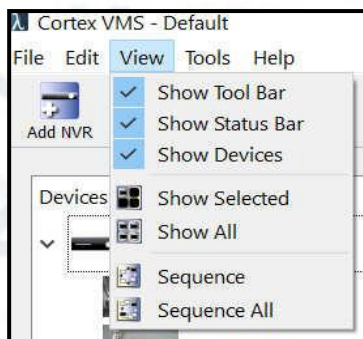
Unselect All: Unhighlights the cameras in the matrix.

NVR Settings: : Select the device and click on ‘NVR Settings’ button to log into the VCP Settings window of the required NVR (see ‘**VCP Settings**’ on Page 39 for more information).

Preferences: Please see chapter 4 ‘**Preferences**’ on Page 11 for full explanation.

3. Interface features and functions (contd..)

View: A number of options shown in this dropdown list will allow you to customise the layout of the λ| Cortex VMS interface. Select either 'Show Tool Bar', 'Show Status Bar' or 'Show Devices' to show or hide each part of the interface except the live multi-panel viewing.



The other four options are quick click options to help streamline the operating process of the software (see '**Set 2 Tool Bar**' on page 8 for more information).

Tools: Only two options are provided in this dropdown menu. The '**Playback Tool**' will take you in to the main playback interface so you can review recorded footage, remotely, straight from the device's hard disk drive. (see '**The Playback Interface**' on Page 25 for more information).



The '**Alarms**' shows alarm triggered cameras on added NVRs (see '**Set 2 Tool Bar**' on page 8 for more information).

Help: When you click on this menu bar, a dropdown menu with a '**About**' option will come up. It provides system and software version information.

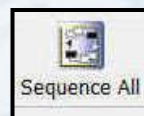
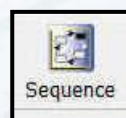
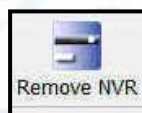


3. Interface features and functions (contd..)

Set 2 Tool Bar:

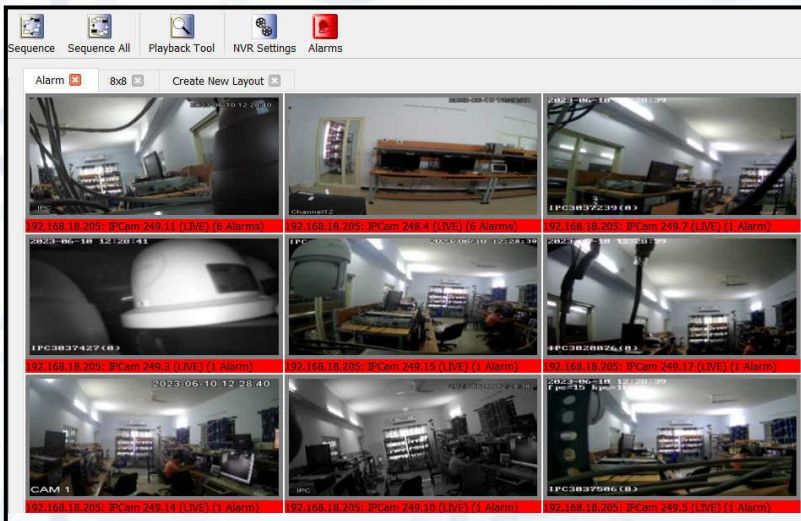
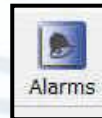
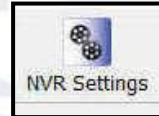


- **Add NVR:** Select this icon if you need to add another NVR to the device list on the left hand side (please see 'Adding an NVR to the device list' on page 5).
- **Remove NVR:** if you need to remove an NVR from your list, firstly select the device from the list and then click this icon.
- **Show Selected:** To show the video channel on the video panel wall, select video channel from device list and click this icon. Hold down 'Shift' button whilst selecting more than one video channel to show more than one channel on the video panel wall.
- **Show All:** When clicking on this button you can instantly have all video channels shown on the video panel wall.
- **Sequence:** This option allows you to play selected live video channels in a sequence one after another. Each channel will play for a short period of time before switching to the next channel in the sequence. This option is ideal for automated monitoring.
- **Sequence All:** Play all live video channels one after another will play for a short period of time before switching to the next channel in the sequence. This option is ideal for automated monitoring.



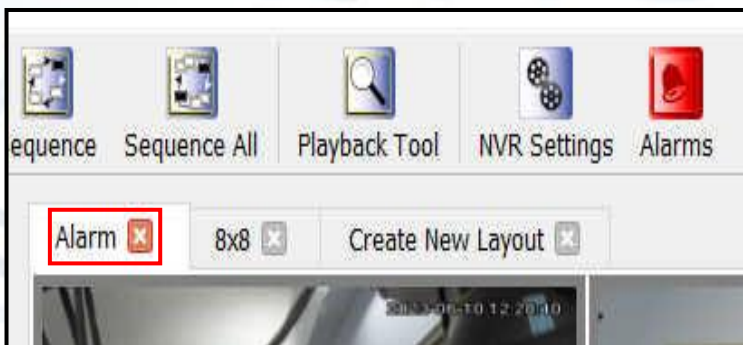
3. Interface features and functions (contd..)

- **Playback Tool:** This option will open up the Playback interface so you can view recorded footage from each of the connected camera channels (see 'The Playback Interface' on page 25 for more information).
- **NVR Settings:** Select the device and click on 'NVR Settings' button to log into the VCP Settings window of the required NVR (see 'VCP Settings' on Page 39 for more information).
- **Alarms:** This option is used to view all alarm triggered cameras from all connected devices.
 - ◆ When alarm triggered on camera, this button will starts blinking with red color.
 - ◆ Clicking on this icon shows alarm triggered cameras as below:



3. Interface features and functions (contd..)

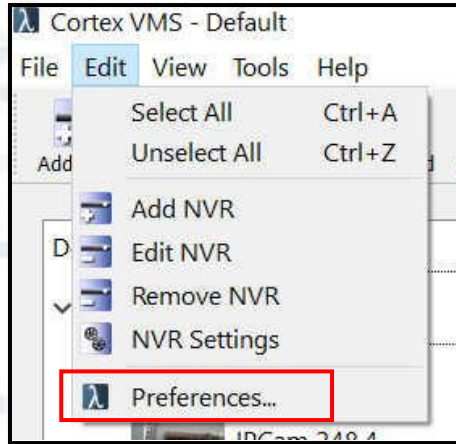
- ◆ To close this alarm view, click on red color checkbox of 'Alarm' as highlighted on red box below:



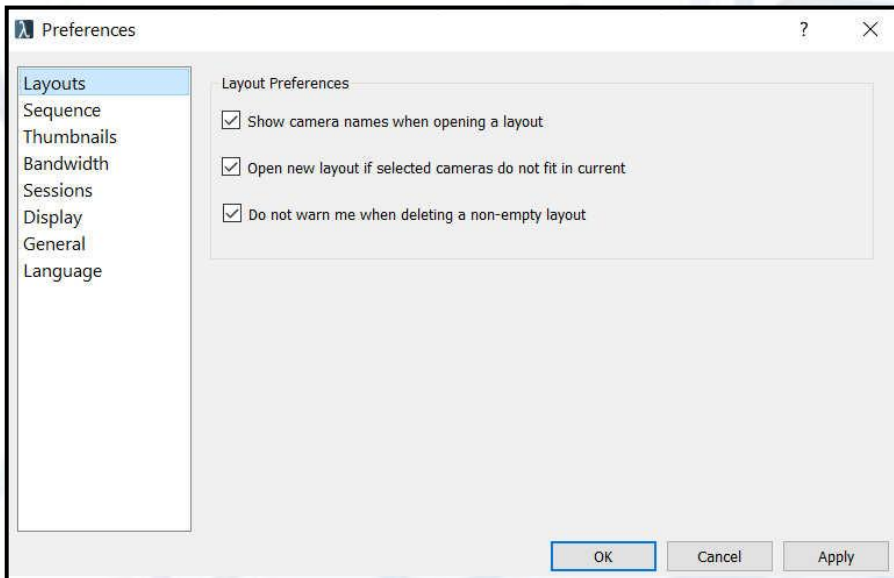
4. Preferences

The 'Preferences' options menu allows you to customise the general functions of the λ| Cortex VMS so you can have more flexibility on the way it works.

The 'Preferences' options menu can be found when opening up the 'Edit' drop down menu list within the Menu bar (highlighted to the right in the red box).



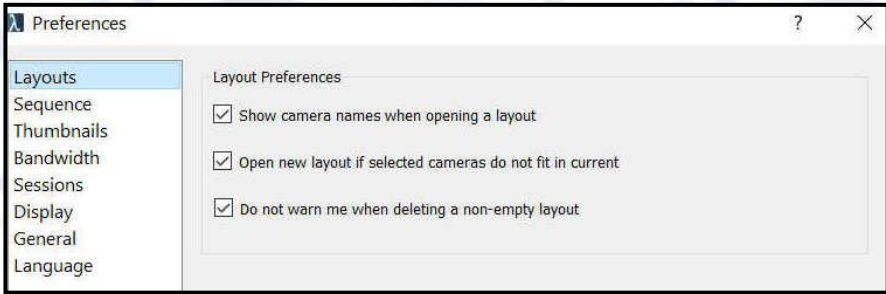
Select the 'Preferences' option to bring up the '**Preferences**' window as shown below:



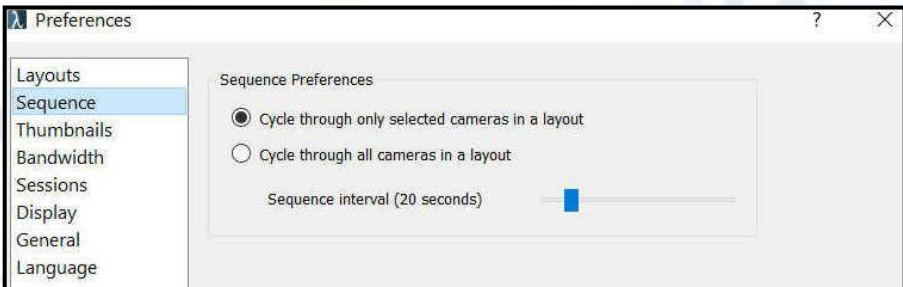
The list of what parts of the λ| Cortex VMS software you can customised are presented on the left hand side and the options to configure are presented on the right hand side.

4. Preferences (Contd..)

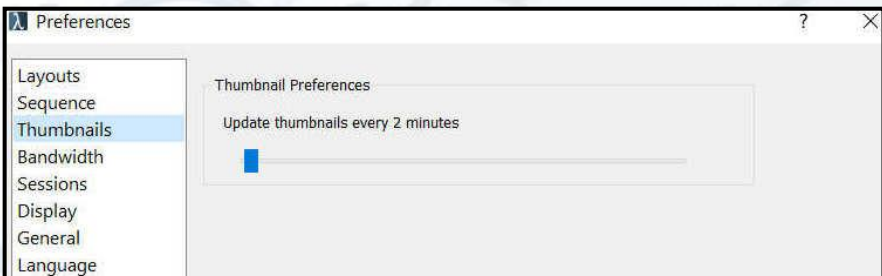
Layouts: Has options such as to show/hide camera name when the layout is opened, Open new layout if selected cameras do not fit in current, and warning when deleting non-empty layout.



Sequence: Has options to select cameras for sequence and sequence interval.

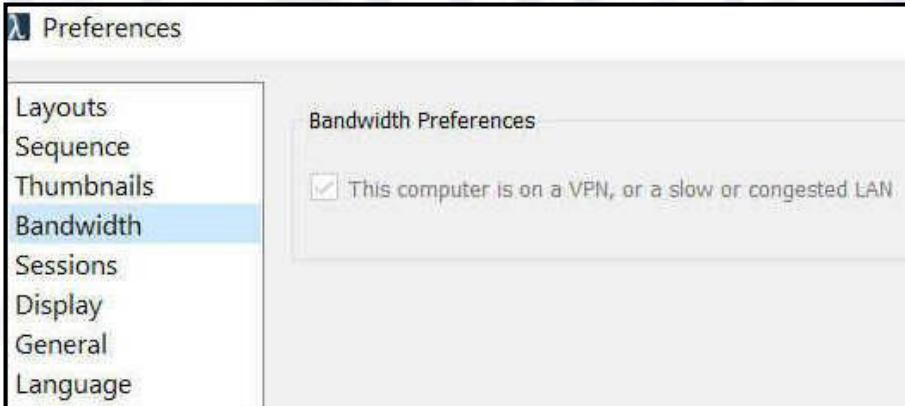


Thumbnails: Allows you to modify the time interval for the thumbnail update.



4. Preferences (Contd..)

Bandwidth: When using the λ| Cortex VMS software on a high end PC, which supports hardware accelerated video decoding, this option will be enabled. Users can check or uncheck this option based on the available network speed. It is advised to check this option when the network is a VPN or a slow-congested LAN to improve video streaming quality.



Sessions: Session management allows these changes:

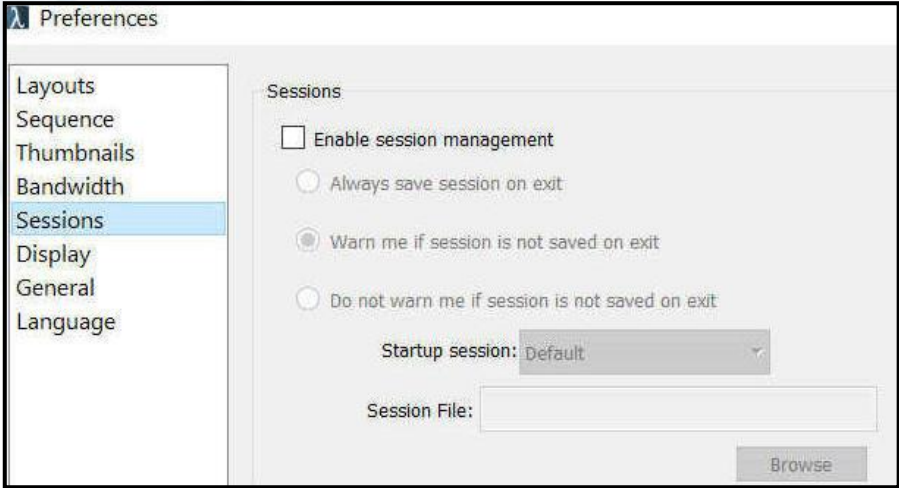
- Enable/Disable session management
- Save session on exit
- Warning to save the session on exit
- Start up session selection between 'Default', 'Custom', and 'None'.

Default: This is a default session. It automatically saves changes on exit and loads the default session on start-up.

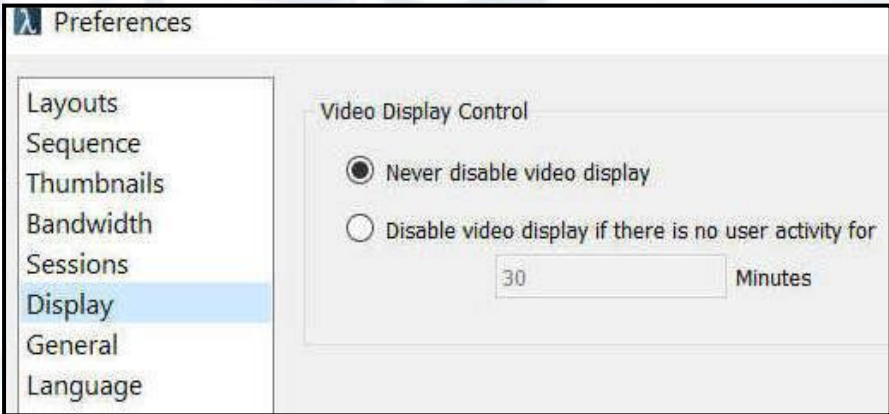
Custom: Different users can choose their own session file that they want to be saved and to also auto load on start-up. It can also be protected through password protection.

None: No default session will be loaded at start-up. The user has to choose either a new session or open an existing session. This option allows the user to choose between different session files at start-up.

4. Preferences (Contd..)

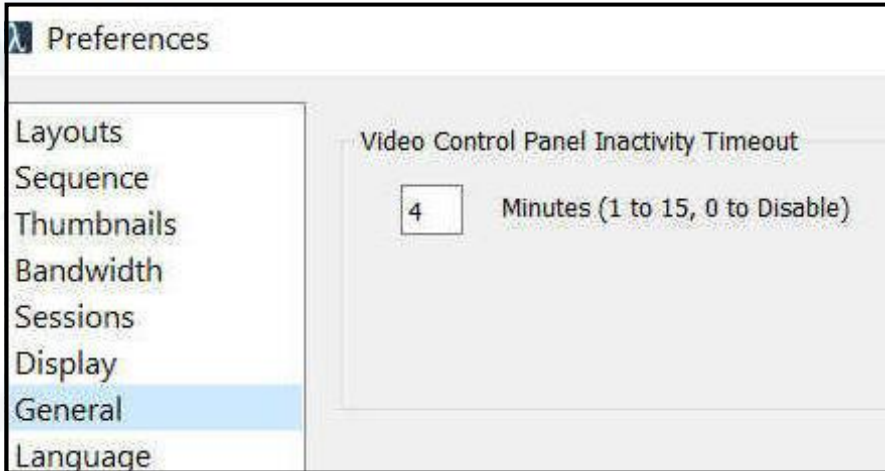


Display: Allows the user to choose to either never disable the video display option or to disable after a set ideal time duration i.e. time duration of no user activity.

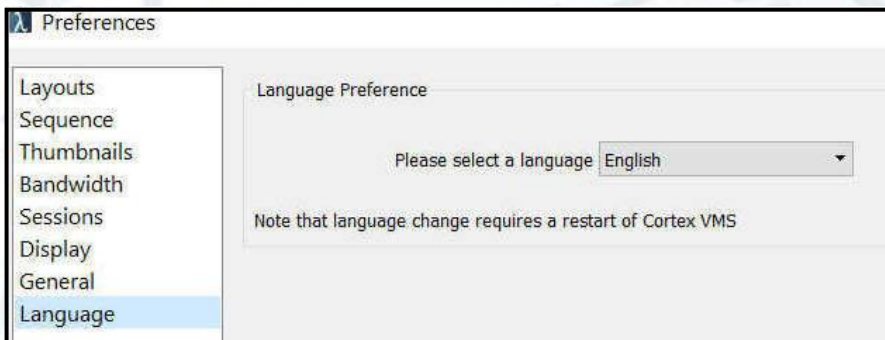


4. Preferences (Contd..)

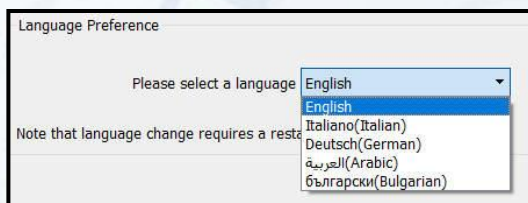
General: Allows the user to enter duration in minutes (1-15, 0 to Disable) to disable the video Control Panel (VCP Settings window) on inactivity.



Language: Allows the user's Language preference.

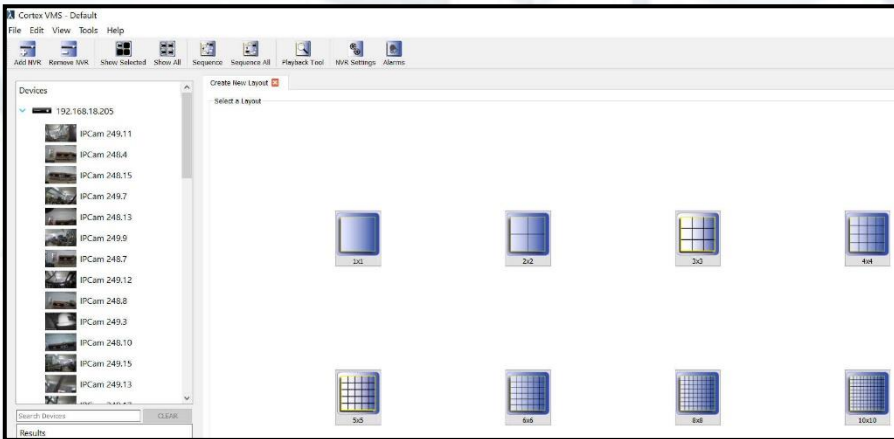


User can choose either English or Italian or German or Arabic or Bulgarian.

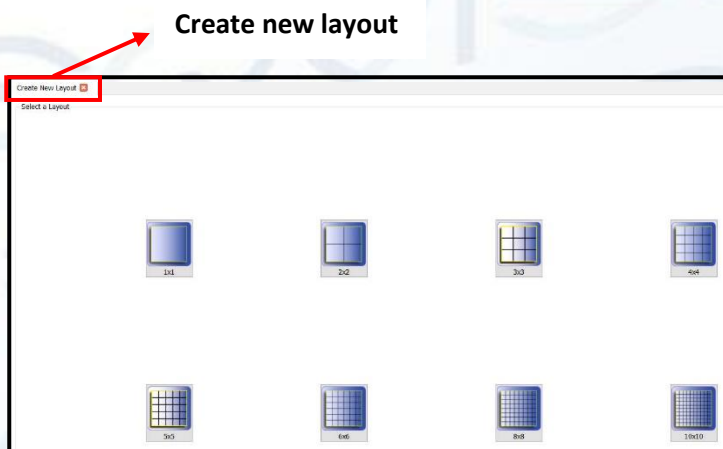


5. Customising the interface layout

Each part of the user interface can be customised to suit a particular needs regarding the use and operation of the λ| Cortex VMS software

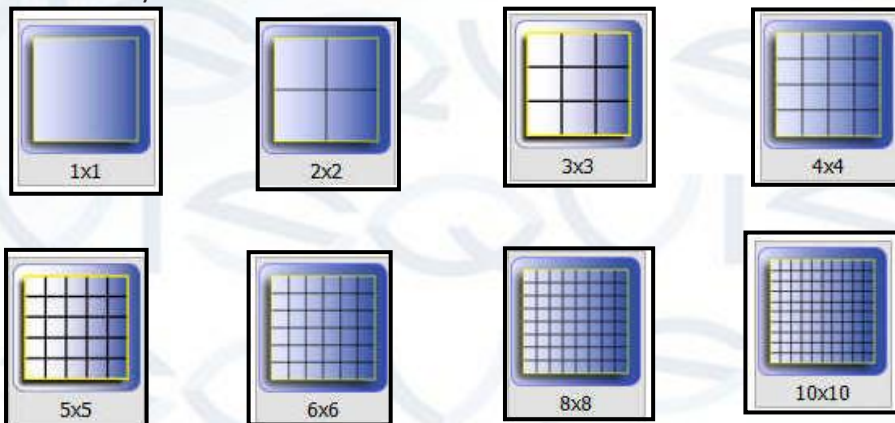


As well as using the 'View' drop down option menu and the options upon it to customise the layout of the interface (see page 7 for more information), you can also choose different layouts for the live view video panels on the monitor window. The layout choices are provided on the live view panel section on the interface, under the tab 'Create new layout', see below.

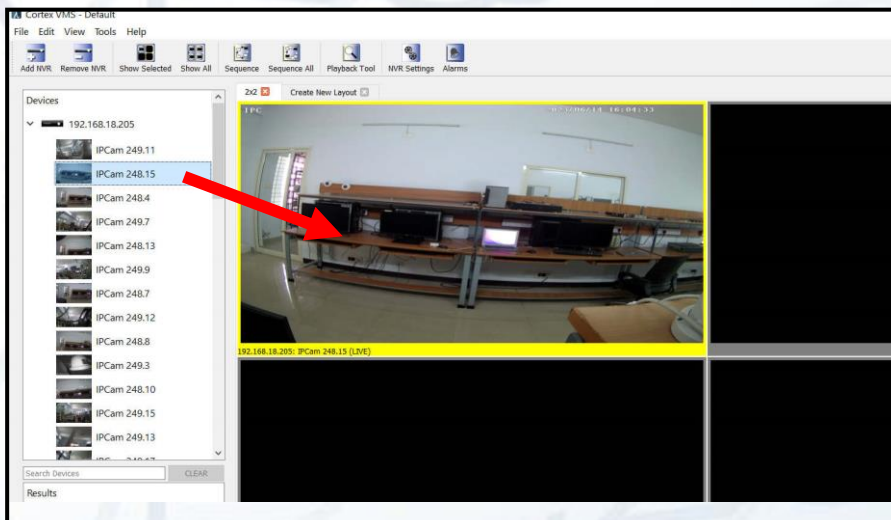


5. Customising the interface layout (Contd..)

Different layouts are as below:



The various layout options are shown above. The multi-panel video window can have either 1/4/9/16/25/36/64/100 live camera feeds and you can arrange those cameras in an order to suit how you would like to monitor the security system. To choose which panel will show a particular video channel you need to select and hold down the left mouse button over the video channel from the list and then drag it to the desired panel on the grid.



5. Customising the interface layout (Contd..)

- You can remove video channels from the panels by hovering the cursor over the panel, holding the left mouse button, dragging the cursor to an area outside the multi-panel viewing window, and then releasing the mouse button.
- The other method to add video channels to the viewing window is to highlight a blank panel then going to the left hand side list double clicking on the camera channel you wish to view in the selected panel. The panel will automatically show the selected camera channel.

Customising video channel layout:

To further customise the live video multi panel window you can move and arrange the video channels into the desired panels. To do this you need to hover the cursor over the panel with the video channel you wish to move to a new panel, press and hold down left mouse button and drag the video channel to a new panel.

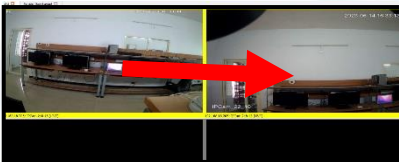


Drag video channel to new panel

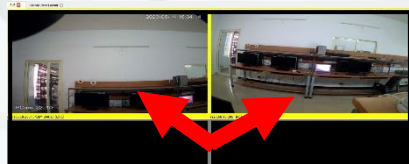


Video channel will relocate to new panel

If the panel you are dragging the video channel to already has a video channel allocated to it, the software automatically swaps both video channels.



Drag video channel to an existing video channel panel

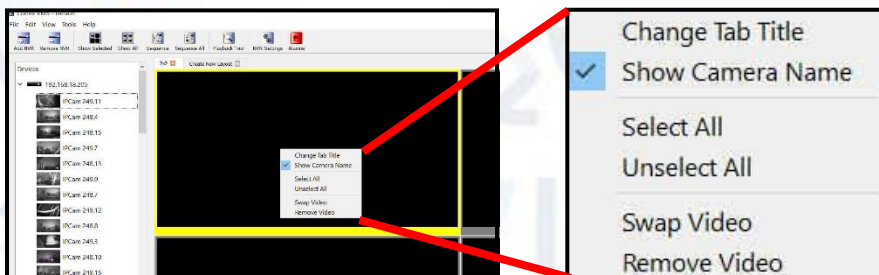


Both video channels swap placement

6. Right Click drop down options

Blank Panels:

When clicking the right mouse button over a blank video panel the following drop down options appear:



Change Tab Title: Select this option to rename the title of the current video panel arrangement tab.

Enter Tab Title

Please enter title of tab:

2x2

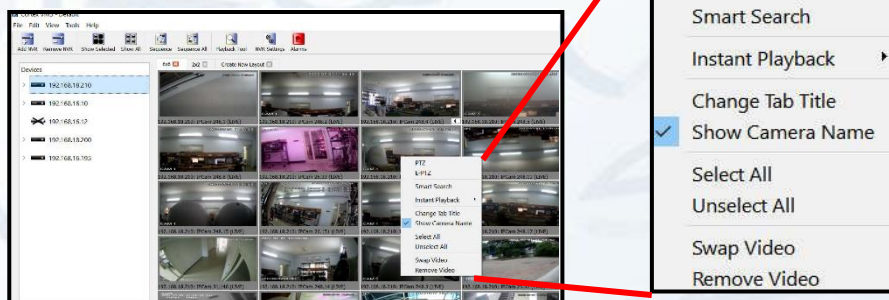
OK Cancel

Show Camera Name: Select this option when you want the video channel's panel to display what name it is listed with. The name will appear with a gray bar at bottom of the panel.

Select All: Selects all panels within the tab. Highlights each panel within a yellow box.

Unselect All: Unselect all panels if they are already highlighted.

Populated Panels:



6. Right Click drop down options (Contd..)

PTZ: This feature allows you to control several connected **PTZ** cameras of current NVR. You will have the ability to physically rotate the camera head to its functional extremities and zoom the focus in and out, remotely.

Clicking on this will open new popup window with PTZ controls as shown below. Using the mouse click on the individual control buttons to manoeuvre camera.

Arrow Keys: Each arrow will make the camera rotate in that direction.

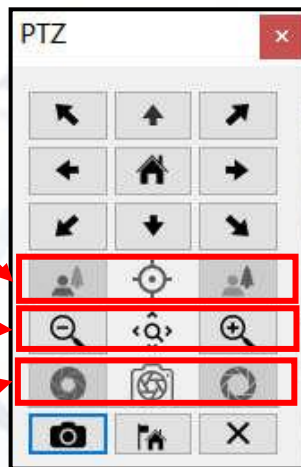


Home Key : This button makes camera **to pre-set Home scene. It is set using 'Set Home' button.**

Focus Keys: If the PTZ camera you are controlling has these capabilities, you can adjust the lens **Focus** (Near or Far) if the image is blurred.

Zoom Keys: These two buttons will allow you simulate movement to and from the scene in front of the camera.

Iris Keys: You can adjust the **Iris** (Close or Open) if the image is too light or dark.



Snapshot feature that allows you to take a single frame snapshot from a camera's recorded video footage and save it to a USB storage device. (see '**Video Snapshot Function**' on Page 35 for more information).



Set Home: This button allows you to set home scene for the camera. A confirmation window will appear, click on '**OK**' to set current scene appearing in the video tile as Home Scene.



button to exit PTZ.

6. Right Click drop down options (Contd..)

E-PTZ: This will open up an Electronic Pan Tilt Zoom control window. As highlighted in the red box below:



This is an exceptionally useful function when using the High Definition footage quality of the static IP cameras, because of the amount you can digitally zoom into the image before it becomes too pixelated.

You can also use the EPTZ function on playback, to zoom in and out and move in any direction on a selected camera channel.

EPTZ is also available in full screen mode. Double click on any camera during playback to go full screen. Double click again to revert. The below area has been zoomed in using the EPTZ function.

EPTZ CONTROL BAR

The EPTZ control bar will appear on the screen. You can easily Zoom in and Out and move in any direction.

You can use the arrow buttons to move about once you have zoomed in to the video image.

6. Right Click drop down options (Contd..)



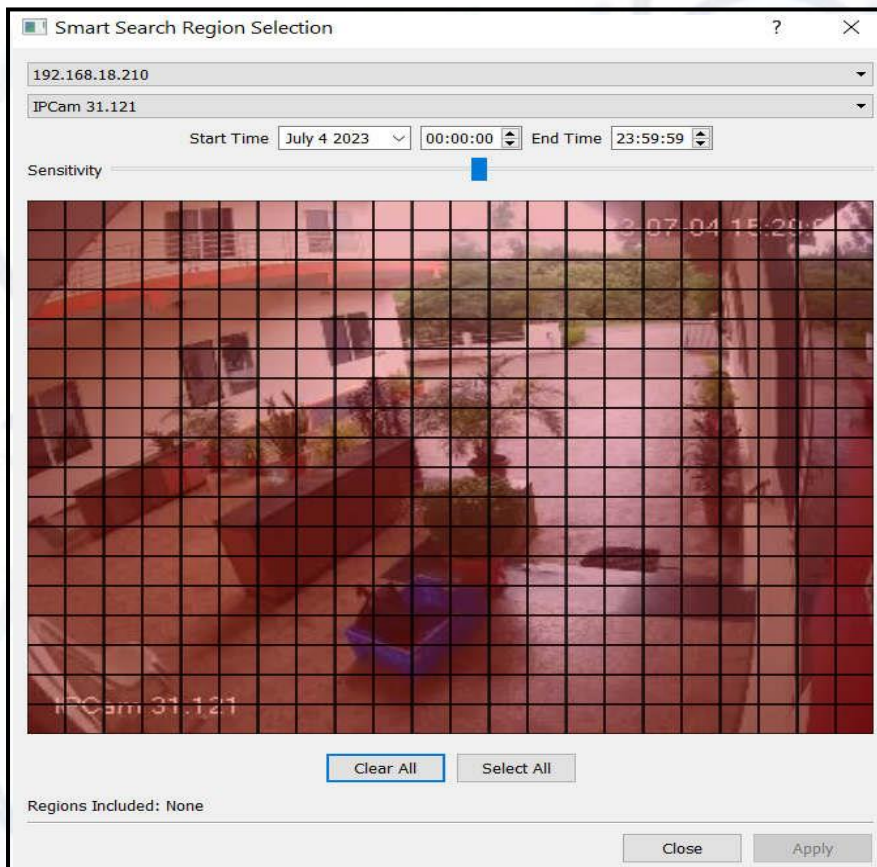
Snapshot feature that allows you to take a single frame snapshot from a camera's recorded video footage and save it to a USB storage device. (see '**Video Snapshot Function**' on Page 35 for more information)



button to exit EPTZ.



Smart Search: This feature is available only on X-Range NVR and also only for cell based cameras. When you click on the 'Smart Search' option, a new window pops-up to enter search criteria as shown below:

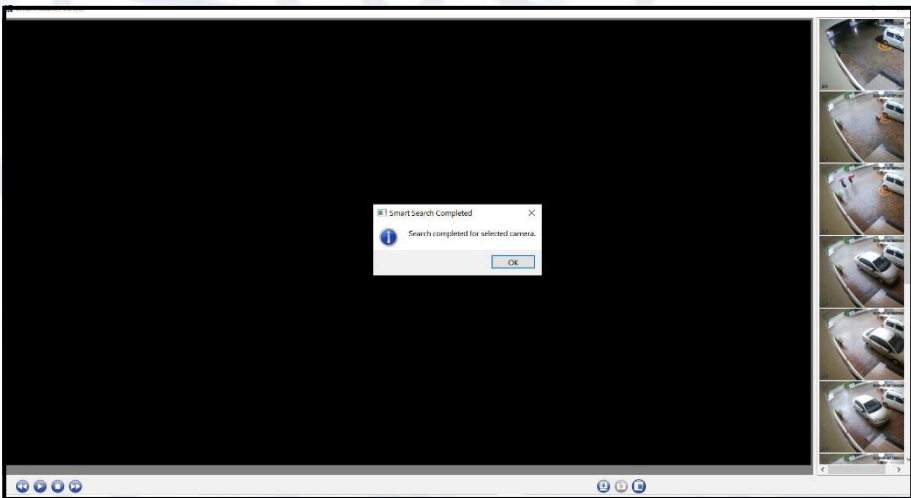


6. Right Click drop down options (Contd..)

Steps

- Select the NVR from the drop down list.
- Select the Camera from the drop down list.
- Provide Date, Start Time and End Time.
- Set the motion sensitivity by using sensitivity slide bar. Sensitivity value ranges from 1 – 30. Where 1 is least motion and 30 is highest motion. By default UI sets the sensitivity value as 15.
- Select the interested region from the region selection window by dragging the mouse inside the region window. User can click “Select All” button to select the entire region.
- Then click on ‘Apply’ button to proceed or ‘Close’ button to exit.

It will generate and show all thumbnails for given criteria with message box stating that ‘Smart Search. Completed’ as shown below

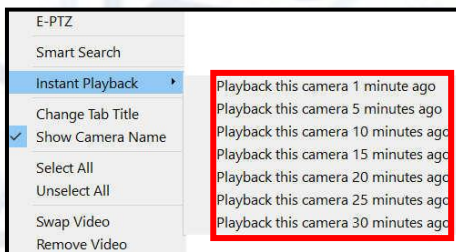


To see the video footages, click on required thumbnails

Instant Playback:

This method allows you to efficiently and quickly playback footage from a particular camera. Meaning that when you login into the playback interface, the camera you have selected will already be displaying in the video playback section of the interface.

- Firstly decide which camera you would like to view footage from, and right click on the top of that camera tile.
- Find the option '**Instant Playback**' and hover the cursor over it to bring up the next set of options (highlighted in the red box on the right).
- Select how far back you want to go, from 1/5/10/15/20/25/30 minutes instantly. Once selected, you will be able to playback that particular camera's footage.

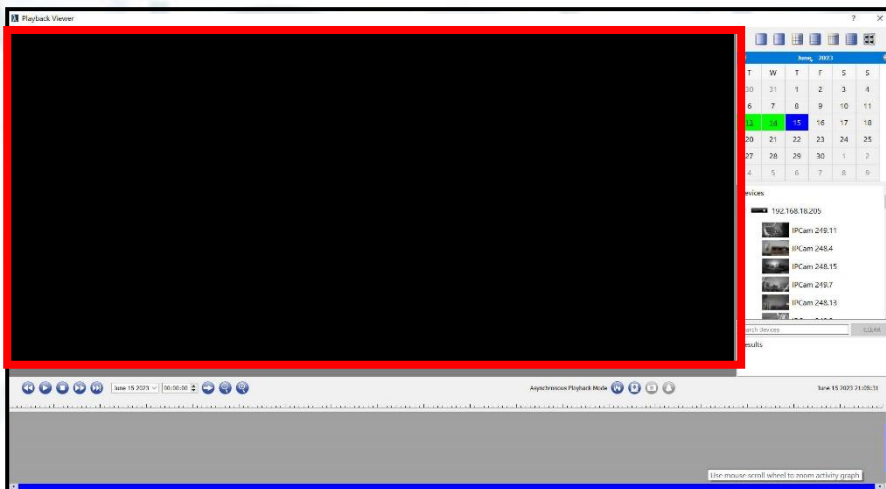


7. The Playback Interface



You can access the playback interface by clicking on the **'Playback Tool'** icon, as shown to the left here.

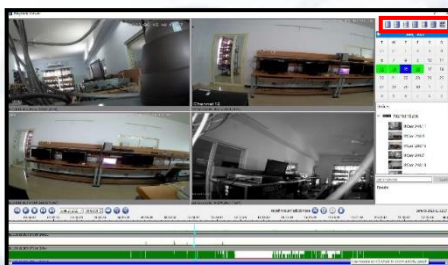
You should see the playback interface appear, as shown below.



You will see that there are no cameras populating the video playback section (highlighted by the red box) on the interface. You will be able to populate this section and be able to view recorded footage from each camera if you follow these steps:

- **Select tiling view for playback**

View all IP cameras on your NVR (Up to 36 Cameras).



1 2 3 4 5 6 7



1 = Full screen

2 = 2x2 layout

4 = 4x4 layout

5 = 5x5 layout

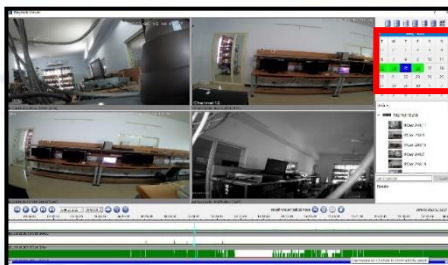
6 = 6x6 layout

7 = Populate tiles (All connected cameras will be shown on tiles. Maximum of 36 tiles)

7. The Playback Interface (Contd..)

- **Select recording date on Calendar**

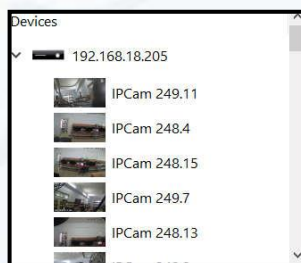
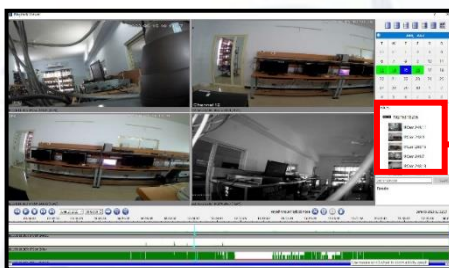
Select which month and day you would like to playback footage from. Your HDD size will determine how far back in the past you can go. Dates highlighted in green represent recorded footage is available for that day, blue date indicates the day you have selected, white date indicates no footage recorded.



June 2023						
T	W	T	F	S	S	
30	31	1	2	3	4	
6	7	8	9	10	11	
13	14	15	16	17	18	
20	21	22	23	24	25	
27	28	29	30	1	2	
4	5	6	7	8	9	

- **Select Camera for Playback**

This will show thumbnails of all cameras which are connected to the NVR. You can drag and drop these into the tiles to view.



7. The Playback Interface (Contd..)

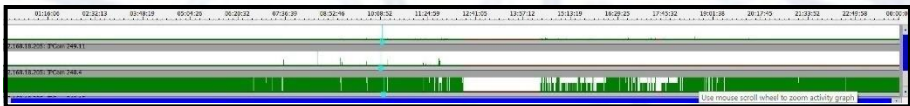
- **Activity Timeline**

This will show each camera's (currently displaying on one of the tiles above) levels of motion activity during a set time frame.

Please turn to **Page 32-34** to see full explanation on how to use this.



Asynchronous Playback Mode



All tiles in Video Playback Interface are in Asynchronous Playback mode.

In this mode only selected tiles will respond to any action such as Rewind, Fast-forward, Play etc.

Here timelines are shown on blue marker.

When using two or more tile view and would like to playback footage from particular day on all tiles, select right side calendar.

June, 2023						
T	W	T	F	S	S	
30	31	1	2	3	4	
6	7	8	9	10	11	
13	14	15	16	17	18	
20	21	22	23	24	25	
27	28	29	30	1	2	
4	5	6	7	8	9	

When using two or more tile view and would like to playback footage from different date on different tile(s), then select tile(s) and use calendar having on bottom part as shown below:

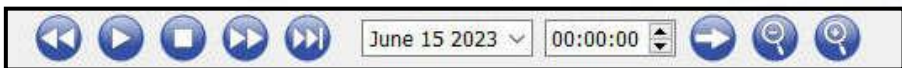


7. The Playback Interface (Contd..)

- **Using the Playback Controls and Time & Date Selection**

Highlight the camera shown on the tiles by clicking on it. Use the playback controls to rewind, play, pause, fast-forward and single step fast forward video footage.

You can also select the precise time and date of the footage you wish to view.

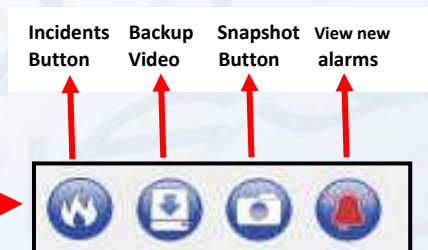
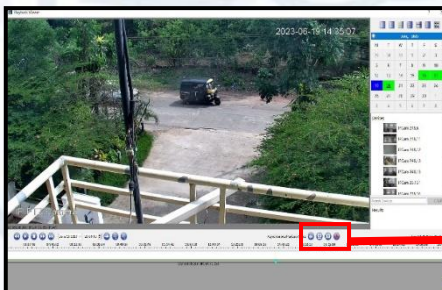


- **Incidents Records, Incident Records Backup and Snapshots**

With the help of Incident button, you will be able to create an incidents records list, so you can refer back to it when you want to re-examine recorded footage. Please go to **Pages 35-37** for a full explanation.

The button next to it will allow you to backup recorded video for the incidents created using incident window. Please go to **Pages 38** for a full explanation.

By clicking on Snapshot button, you can take snapshot of 1x1 layout or full screen. Visit **Page 35-37** for detailed explanation.



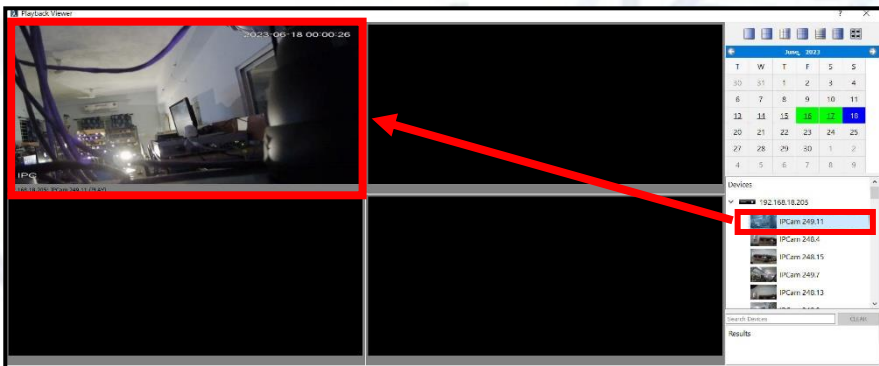
7. The Playback Interface (Contd..)

- **Selecting and arranging camera**

To view their recorded footage within the playback interface, there are numerous ways to select and arrange the connected cameras. Giving you this flexibility will allow you to setup and tailor the interface towards your preferred way of viewing the recorded video footage.

Below is a list of ways to view video in the playback monitor:

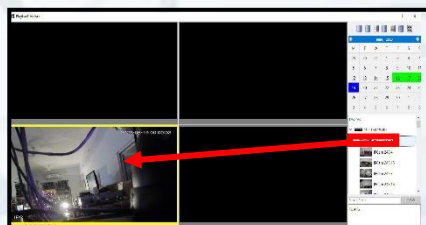
Method 1: Double click on thumbnail to automatically place in the first empty tile.



Method 2: Select a tile with a left click and then double click on thumbnail.



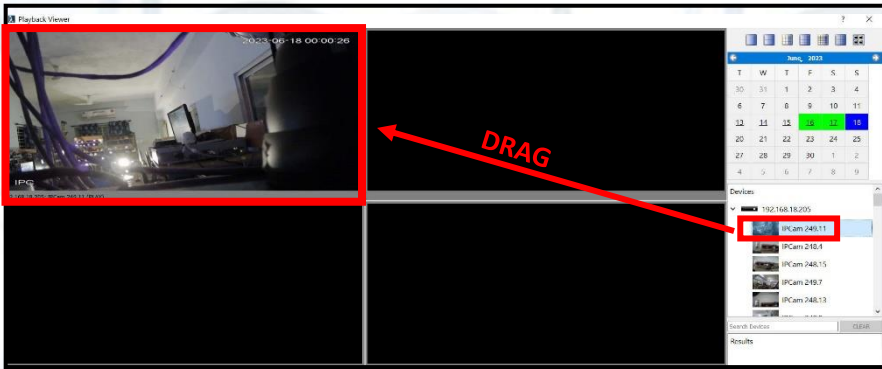
1. Select tile



2. Double click camera thumbnail

7. The Playback Interface (Contd..)

Method 3: Drag a thumbnail onto a specific tile, by holding down the left mouse button over the thumbnail, moving it to the tile, and then releasing the left mouse button.



Method 4: Rearrange a camera by dragging to the desired tile.

1. Hold down left mouse button over camera tile you wish to move to a new tile.



This icon should appear when you are moving the camera over to the new tile.



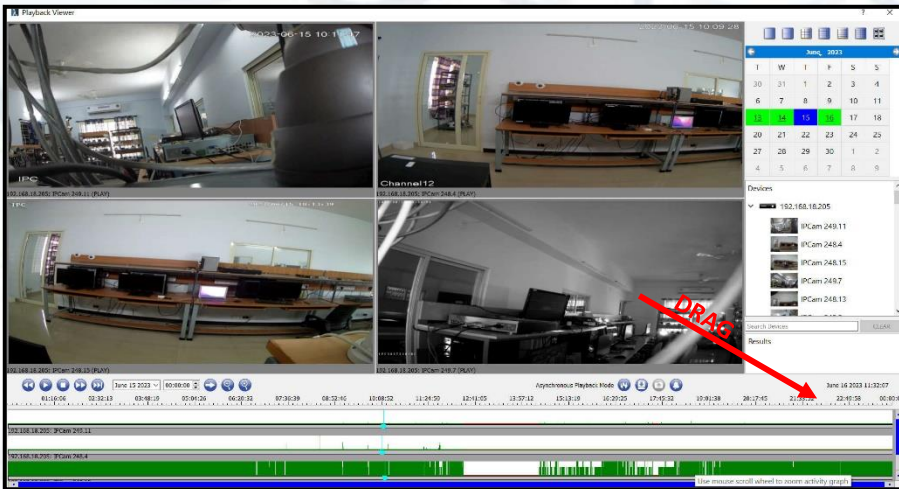
2. Release mouse button when the cursor is above the tile you are moving the camera to.

The camera footage should now appear in the new tile



7. The Playback Interface (Contd..)

Method 5: Remove a camera by dragging it outside the video monitoring area.



Method 6: After selecting the NVR from the device list, click icon  to display all cameras.



8. Using the Playback Timeline

As part of the newly updated intuitive playback interface is the incident timeline. This is found at the bottom of the playback interface and allows you to search for specific incidents within a specific time frame. The timeline will display detected movements as green level bars and pink colour for analytics event during a 24-hour period. This chapter will show you how to use it.

Timeline is highlighted by the red box below:



For each camera displayed within each video tile, an incident timeline will appear in the section at the bottom of the playback interface. Use the scroll bar to find the camera footage timeline you want.

Firstly, select the day on the calendar you wish to view the video footage from. The timeline(s) will then display any motion activity.

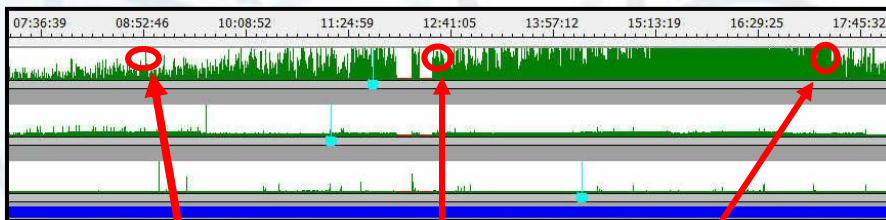
The timeline(s) can be zoomed into by using the Zoom buttons  in the timeline or mouse wheel

June 2023						
M	T	W	T	F	S	S
29	30	31	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	1	2
3	4	5	6	7	8	9

so that you are able to view a more decisive time period of incident activity. You need to have the mouse cursor over the timeline section in order to zoom in.

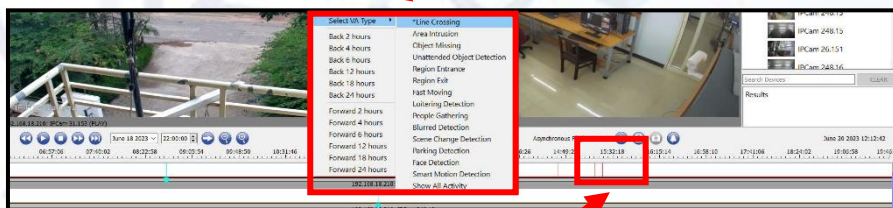
You can also start playback from a particular camera at a particular time by clicking on the timeline and then the timeline will be automatically updated.

8. Using the Playback Timeline (Contd..)



Each green column represents a level of motion activity. Tall and numerous columns represent a high level of motion caught by the camera(s)

If camera supports analytics, playback activity timeline will show analytic events as part of timeline. By default, all analytics activities are clubbed together and shown using pink colour bars, along with green coloured motion activity bars. To bring up individual analytics activity timeline, right click on activity timeline and select analytic type.

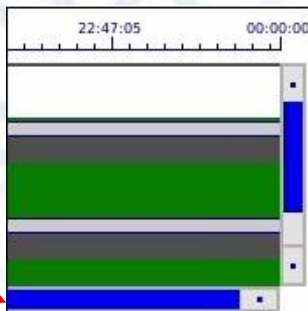


Analytic activity timeline with each column showing the time when analytics event happened. Clicking on individual column will bring up video of event

By using the settings to change the time periods for the timeline, you will be able to scrutinize footage data in greater detail and efficiency.

8. Using the Playback Timeline (Contd..)

Use the scroll bar on the bottom to pan left/right in the timeline.



Use the scroll bar on the right to move between cameras.

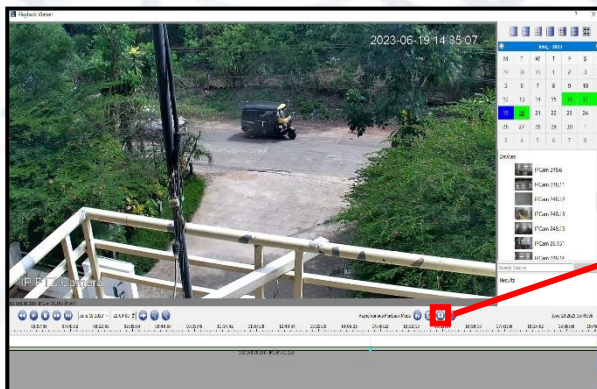
You can also use the mouse scroll wheel to zoom in/out of the timeline, when you have the cursor hovering over it.

**Varying motion levels and analytics events are only displayed and recorded when using selected QVIS cameras. Otherwise the timeline will only show when video was recorded, and not columns depicting different levels of motion.*

9. Snapshots and Incidents Records

• Video Snapshot Function

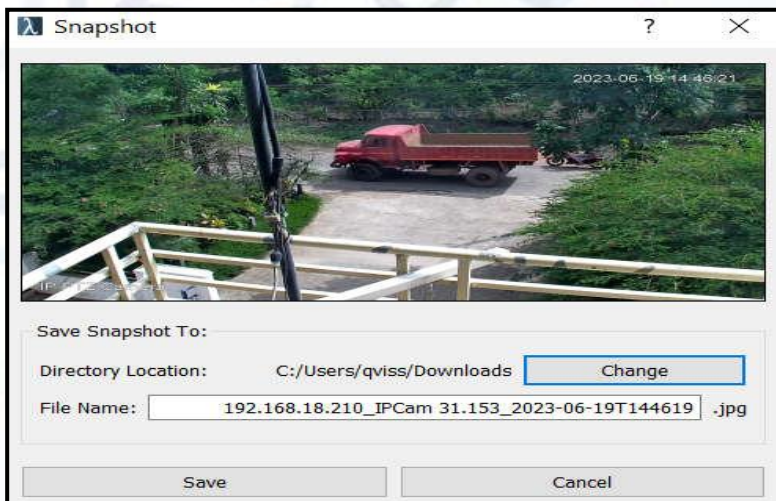
On the λ| Cortex VMS there is a Snapshot feature that allows you to take a single frame snapshot from a camera's recorded video footage and save it to the same Windows system or a USB storage device. This feature allows you to store and distribute the snapshot to external data storage mediums away from the NVR. The snapshot feature is part of the Playback Interface.



Locate and select the Snapshot icon on the playback interface, see icon below:



- Clicking on snapshot icon will open Snapshot window as shown below.



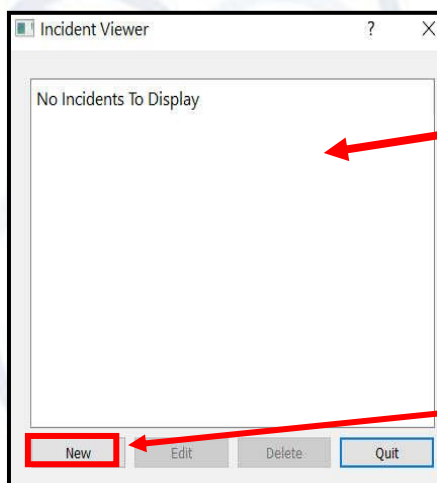
- Insert your USB storage device into one of the USB ports on the windows machine. Select the 'Change' button to locate the USB storage device and select it.
- Rename the snapshot in the 'File Name' field if required and select 'Save'.
- Select 'Cancel' to close window.

• Incidents Records

This chapter will explain how to create an incidents records list. The next chapter will show you how to back up this list's video footage to an external data storage device.

Following on from '**Incidents Records and Incident Records Backup**' on Page 38; when you click on the '**Incidents**' button (located just above the camera footage timeline viewer) the '**Incident Viewer**' window will appear:

Steps in creating an Incidents records:



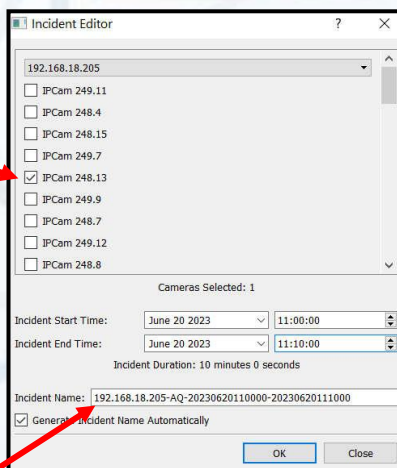
1. The incident viewer will allow you to index particular incidents caught on one or more cameras. It will display the start & end times of each recorded incident and which camera captured the footage. You can also give the incident a unique reference name to help you to distinguish between each of them
2. Click on the '**New**' button at the bottom of the window (shown in the red box to the left) to add a new incident to the list.

3. The window, shown on the right, will appear after clicking on the '**New**' button.

4. To index or edit an incident record, select which camera the incident was caught on.

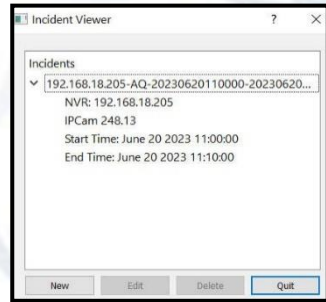
5. Then input the precise date and time of the incident in to the '**Incident Start Time**' and '**Incident End Time**' input tabs. You will need to refer to the timeline bar to find the precise time & date of incident.

6. To give the indexed incident a name, you can either allow the interface to automatically create a unique one or you can manually create a desired name.



9. Snapshots and Incidents Records (Contd..)

7. Once you have filled in all the fields click on **'OK'** button and you will now be able to see the indexed incident on the incident viewer.
8. You will also be able to amend any details of each indexed incident by selecting the particular incident name and then clicking on the **'Edit'** button at the bottom of the window.



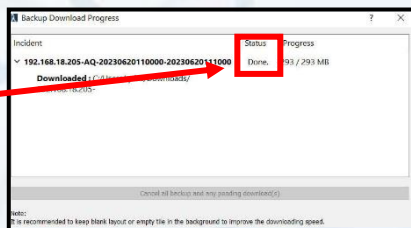
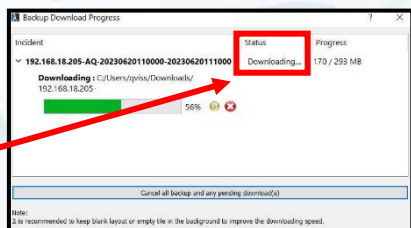
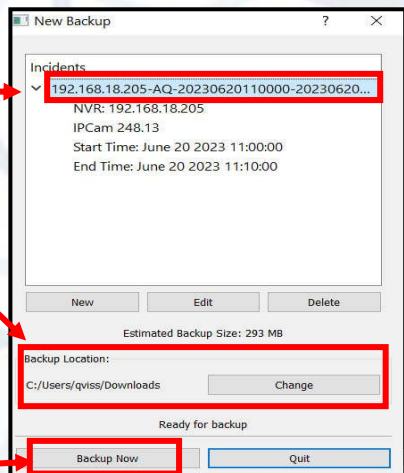
10. Incident Records Backup

This chapter will show you how to back up your incident list's video footage to an external data storage device (The device you are using λ | Cortex VMS upon).

Next to the '**Incidents**' button on the Playback interface there is another button  which when clicked upon, will bring up the '**New Backup**' menu window as shown below:

The 'New Backup' menu will allow you to create an external backup copy of the selected indexed incident. This will allow you to either transfer the video footage of the incident to another playback device or to keep as a backup archive just in case the master copy is destroyed

1. To backup incident footage; firstly **select the incident**, you would like to backup, from the list. 
2. Select where on the local workstation's / PC's storage device you would like to store the backup file to (click the 'Change' button to designate the destination to save backup file). 
3. Then finally select '**Backup Now**' and the file will be downloaded from the NVR and on to the local workstation's / PC's storage device. 
4. The window shown to the right will appear and it will show you the progress of the video download to the designated destination directory with status '**Downloading...**'. 
5. The software will tell you status '**Done**' message when the download has been complete and successful. 

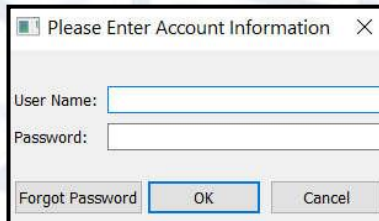


11. VCP Settings

After clicking on '**NVR Settings**' button, authentication is required to open '**VCP Settings**' window.

Type in your '**User Name**' & '**Password**' when the login screen and keyboard appear.

If you forgot password, click on '**Forgot Password**' button, a pop-up window will appear with necessary details to get the new password from NVR Admin or Qvis Labs depending on whether you are a new user or NVR admin.

A dialog box titled "Please Enter Account Information" with a close button (X) in the top right corner. It contains two input fields: "User Name:" and "Password:". Below the fields are three buttons: "Forgot Password", "OK", and "Cancel".

Once you have successfully logged in, It will open up the '**VCP Settings**' window where you can modify the NVR and camera configuration and parameters and set them to run your CCTV security system.

'**VCP Settings**' window will display 8 menu headings. These 8 menu headings are highlighted below by the red box.



IP Camera

Analytics

Network Settings

NVR Settings

User

Alarm

Info

Support

IP Camera

The **IP Camera** Menu has 3 sub menus:

IP Camera Management

IP Camera Settings

Recording Schedule



11. VCP Settings (Contd..)

IP Camera (Continued)

IP Camera Management

This menu will deal with Search, Add and Remove of IP cameras.

VCP Settings - qvis-72ce4d

IP Camera Management

Camera Name	IP Address	Port	User Name	Status	Add
☐ IPCam 31.164	192.168.31.164	Default	admin		
☐ IPCam 31.162	192.168.31.162	Default	admin		
☐ IPCam 31.155	192.168.31.155	Default	admin		
☐ IPCam 31.152	192.168.31.152	Default	admin		
☐ IPCam 31.140	192.168.31.140	Default	admin		
☐ IPCam 31.135	192.168.31.135	Default	admin		

Discover Manual Add Add All Add Selected

Camera Name	IP Address	Status	Preview	Info	Edit	Remove
☐ IPCam 248.1	192.168.248.1					
☐ IPCam 248.2	192.168.248.2					
☐ IPCam 24.11	192.168.24.11					
☐ IPCam 248.4	192.168.248.4					
☐ IPCam 248.5	192.168.248.5					
☐ IPCam 248.10	192.168.248.10					

Remove All Remove Selected

Finished searching the IP Cameras in the network.

Close

List of IP Cameras added to NVR

Discover:

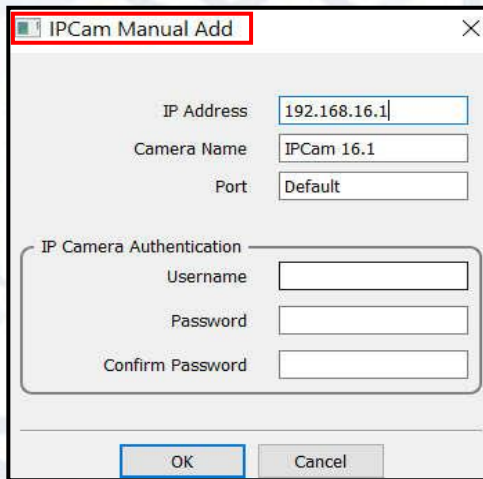
Will search for the IP Cameras in the network. Discovered IP Cameras are shown in the upper list.

Manual Add:

By clicking on this button, you can add IP cameras manually from the discovered list. This leads to new pop-up 'IPCam Manual Add' window, where you must fill camera detail such as IP Address, Camera Name and Port and IP camera Authentication such as Username and Password as shown in the next page.

11. VCP Settings (Contd..)

IP Camera (Continued)

A screenshot of a software dialog box titled "IPCam Manual Add". The dialog has a close button (X) in the top right corner. It contains several input fields: "IP Address" with the value "192.168.16.1", "Camera Name" with the value "IPCam 16.1", and "Port" with the value "Default". Below these is a section titled "IP Camera Authentication" which contains three sub-fields: "Username", "Password", and "Confirm Password", each with an empty text box. At the bottom of the dialog are two buttons: "OK" and "Cancel". The "OK" button is highlighted with a blue border.

Click on '**OK**' to continue, '**Cancel**' to discard changes.

Add All:

All discovered IP Cameras will be added to the NVR.

Add Selected:

One or more selected cameras will be added to the NVR. Selection can be done by ticking check box in the Camera Name column.

Remove All:

Removes all added IP Cameras from the NVR. For PnP cameras you need to disconnect the cameras first then try to remove.

Remove Selected:

Selected Cameras will be removed from NVR.

+ Add:

By clicking this icon and after providing valid camera's user credentials, you can add discovered IP cameras to the NVR.

11. VCP Settings (Contd..)

IP Camera (Continued)

In X-Range NVR, this leads to open 'IP Camera Authentication' window with auto filled default data, based on vender specific. If incorrect username or password is provided, camera does not get added.



IP Camera Authentication

Username: admin

Password: *****

Confirm Password: *****

Enter only if IP Cameras' credentials have been changed. Otherwise "default" credentials of known IPCs will be applied.

OK Cancel

In The Commander NVR, this leads to open 'IP Camera Authentication' window, where you must fill IP Camera's user credentials. If incorrect username or password is provided, camera does get added but will not stream. Use Edit camera option for modifying the correct username/password later.



IP Camera Authentication

Username: admin

Password:

Confirm Password:

Enter only if IP Cameras' credentials have been changed. Otherwise "default" credentials of known IPCs will be applied.

OK Cancel



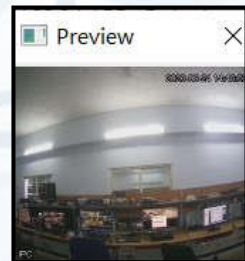
Status:

This symbol shows status of the IP Camera, whether it is connected to the NVR or Not. Green tick means it is connected to the NVR and Red X means it is disconnected.



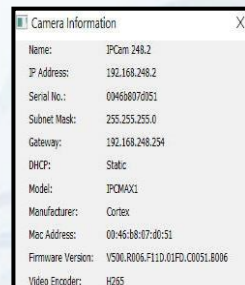
Preview:

IP Camera Preview window will open when you click on this Icon, it will show a preview of the camera channel.



Info:

When you click on this button, Camera Information dialogue box will open. Every detail of selected IP camera will be available here



Camera Information

Name:	IPCm 248.2
IP Address:	192.168.248.2
Serial No.:	0946807051
Subnet Mask:	255.255.255.0
Gateway:	192.168.248.254
DHCP:	Static
Model:	IPCMAx1
Manufacturer:	Cortex
Mac Address:	00:46:b8:07:d0:51
Firmware Version:	V500.R006.F11D.01FD.C0051.B006
Video Encoder:	H265

11. VCP Settings (Contd..)

IP Camera (Continued)



Edit:

When you click on this button an IP Camera Edit Dialog box will open. IP Camera name can be edited here. Also User password can be edited or updated. It needs IP Camera Authentication. Click on **'Save'** to update changes.



The IP Camera Edit Dialog box contains the following fields:

- IP Address: 192.168.248.2
- Camera Name: IPCam 248.2
- Port: Default
- IP Camera Authentication section with:
 - Username: admin
 - Password: *****
 - Confirm Password: *****
- Buttons: Save, Cancel

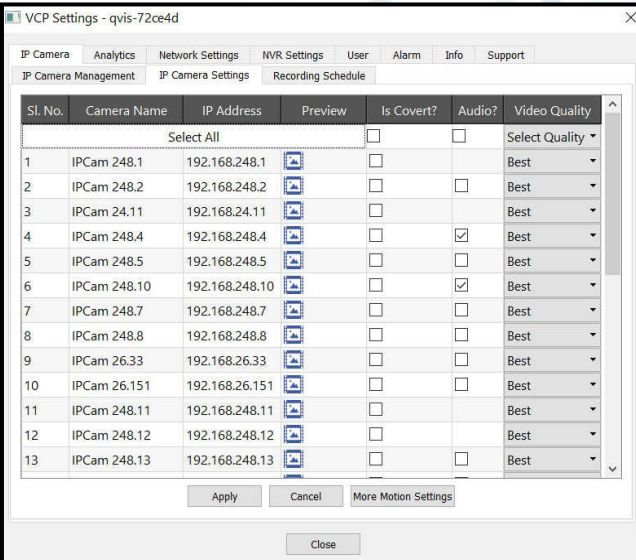


Remove:

By clicking on this Icon, you can remove IP camera from the NVR.

IP Camera Settings

IP Camera settings like audio, video, motion sensitivity etc can be set using 'IP Camera Settings' for each of the IP camera.



The VCP Settings dialog box shows the following tabs: IP Camera, Analytics, Network Settings, NVR Settings, User, Alarm, Info, Support. The IP Camera Management tab is selected, showing the IP Camera Settings sub-tab. The table below lists the IP cameras and their settings.

Sl. No.	Camera Name	IP Address	Preview	Is Covert?	Audio?	Video Quality
Select All						
1	IPCam 248.1	192.168.248.1		☐	☐	Select Quality ▼
2	IPCam 248.2	192.168.248.2		☐	☐	Best ▼
3	IPCam 24.11	192.168.24.11		☐	☐	Best ▼
4	IPCam 248.4	192.168.248.4		☐	☒	Best ▼
5	IPCam 248.5	192.168.248.5		☐	☐	Best ▼
6	IPCam 248.10	192.168.248.10		☐	☒	Best ▼
7	IPCam 248.7	192.168.248.7		☐	☐	Best ▼
8	IPCam 248.8	192.168.248.8		☐	☐	Best ▼
9	IPCam 26.33	192.168.26.33		☐	☐	Best ▼
10	IPCam 26.151	192.168.26.151		☐	☐	Best ▼
11	IPCam 248.11	192.168.248.11		☐	☐	Best ▼
12	IPCam 248.12	192.168.248.12		☐	☐	Best ▼
13	IPCam 248.13	192.168.248.13		☐	☐	Best ▼

Buttons: Apply, Cancel, More Motion Settings, Close

If you wish to set all the camera settings to the same, you can click on the **'Select All'** button.

11. VCP Settings (Contd..)

IP Camera (Continued)

The '**Sl. No.**', '**Camera Name**' and '**IP Address**' columns will list the details of each IP camera configured to work with the NVR.

Preview:

Provides preview window for each IP Camera.

Is Covert? :

Check this box if you want to make the particular camera covert. Only users with enough privilege will be able to view such cameras. (See Settings - User).

Audio:

Check this box if you want to enable the Audio on audio supported cameras. After saving this, if you right click on video wall, you can see the 'Play Audio' option. It also shows a audio speaker knob on the camera tile when enabled the audio.

Video Quality:

You can set the quality as either **BEST, BETTER, NORMAL, GOOD, FAIR & CUSTOM**.

CUSTOM:

NVR sets the default encoder setting on the IPC - which is normal video quality when the IPC is added to the NVR. There is no point in pre-configuring the IPC before adding to the NVR. After adding, video quality can be changed using the NVR settings menu. If custom setting is needed, video quality should be changed to custom in the NVR setting, before changing the setting on the IPC. In other words, first keep video quality to '**CUSTOM**' mode and save it. After that login to IP camera GUI and do changes.

Here you can change following three parameters under main stream.

- a. Frame Rate
- b. I.Frame Rate (it should be same as Frame Rate)
- c. Bit Rate

Should not do any changes in other parameters.

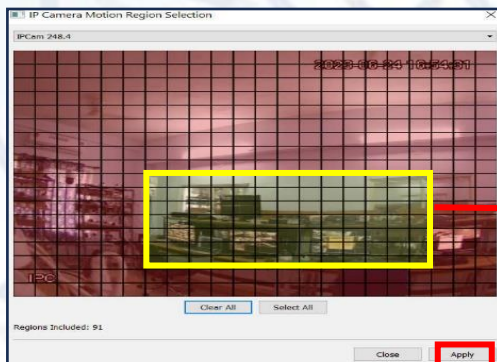
Click on '**Apply**' to save selections. Click on '**Cancel**' to discard changes.

Click on '**More Motion Settings**' to set where on the camera's field of view the NVR will detect any motion and shown on the camera's motion sensitivity timeline in the playback interface.

The '**IP Camera Motion Region Selection**' window will appear, as shown in next page.:

11. VCP Settings (Contd..)

IP Camera (Continued)



Region Selected

Apply

Note: Only our professional range of IP cameras will show the level of motion activity on the motion sensitivity timeline in the playback interface. All other cameras will show a constant band.

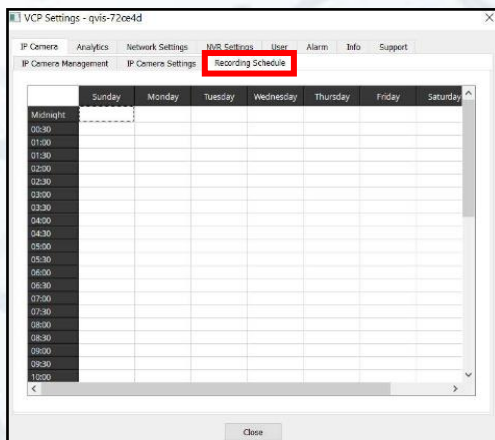
The camera's field of view will be completely cleared to start off with, but you can click the sectors on the grid where you want the NVR to register motion activity on the camera's motion sensitivity timeline in the playback interface.

Regions included marked in the Yellow box.

Click on '**Apply**' once you are happy with your motion detection setup.

Recording Schedule

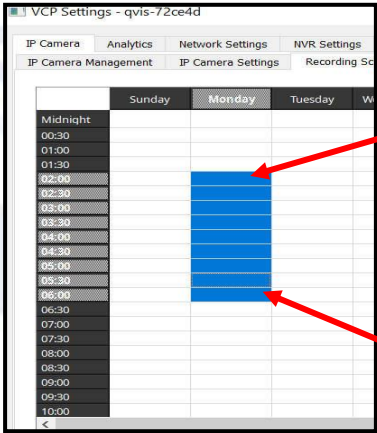
The λ| Cortex NVRs always record all connected cameras at the resolution, frame rate, and quality specified in Camera Settings. The Schedule function is used to modify this behaviour during selected time frames.



11. VCP Settings (Contd..)

IP Camera (Continued)

- 1. **To Set Up a Scheduled Recording:** In the ‘Recording Schedule’ sub menu you can see a one-week gridded calendar. Each grid represents a specific half hour (listed at the left in 24-hour clock format) on the given day (listed at the top in Sunday-Saturday format).
- 2. Click in the grid that corresponds to the time the NVR is to begin recording.



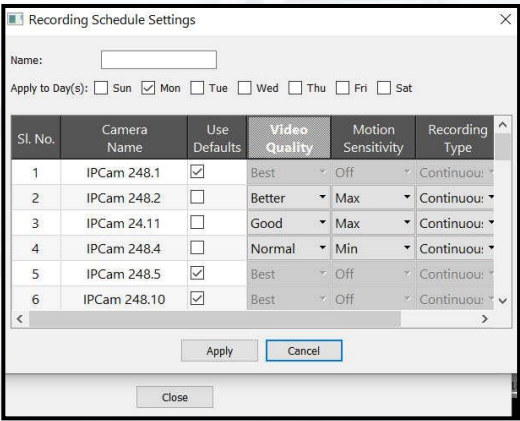
Grid that corresponds to the time the NVR is to begin recording.

Grid that corresponds to the time the NVR is finish recording.

- 3. Click again in the grid that corresponds to the time the NVR is to finish recording. This brings up the **Recording Schedule Settings** window, which allows customization of this particular scheduling ‘block’.

Apply to Day(s): This series of checkboxes allows for duplication of this scheduling block over multiple days of the week. Simply click on the box to apply the newly created block to that day.

Camera Name: This is the user-assigned name of the numbered camera. By default, this is **IPCam 248.1, IPCam 248.2, etc.**



11. VCP Settings (Contd..)

IP Camera (Continued)

Use Defaults:

If this box is checked, the associated camera will record continuously at High Quality video, with Motion Sensitivity turned Off. (These defaults can be changed by using the 'IP Camera Settings' under Settings.) If all cameras are set to 'Use Defaults', we won't be able to create schedule.

If this box is unchecked, the following four options become editable:

Video Quality:

By clicking on the drop-down menu, the quality of the recorded video can be changed to **Best, Better, Normal, Good** or **Fair**. The default value is **Normal**.

Motion Sensitivity:

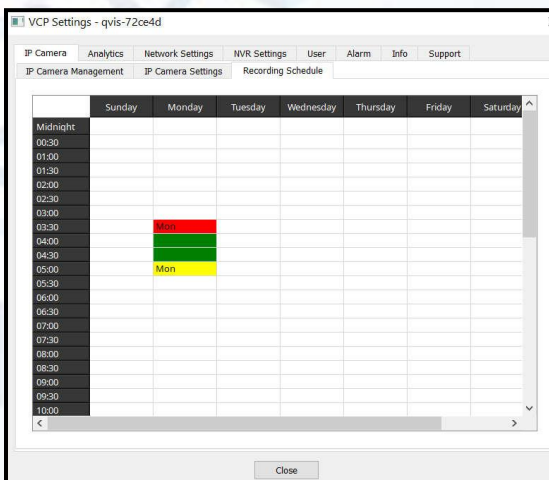
By clicking on the drop-down menu, the motion sensitivity setting of the associated camera can be changed to **Max, Med, Min**, or **Off**. The default value is **Off**.

Note: To record when even the slightest motion is in the camera's field of view, set to Max. Conversely, to record when only significant motion is present, set to Min.

Recording Type:

By clicking on the drop-down menu, the Recording Type of the associated camera can be changed to **Continuous** or **Motion**. The default value is **Continuous**.

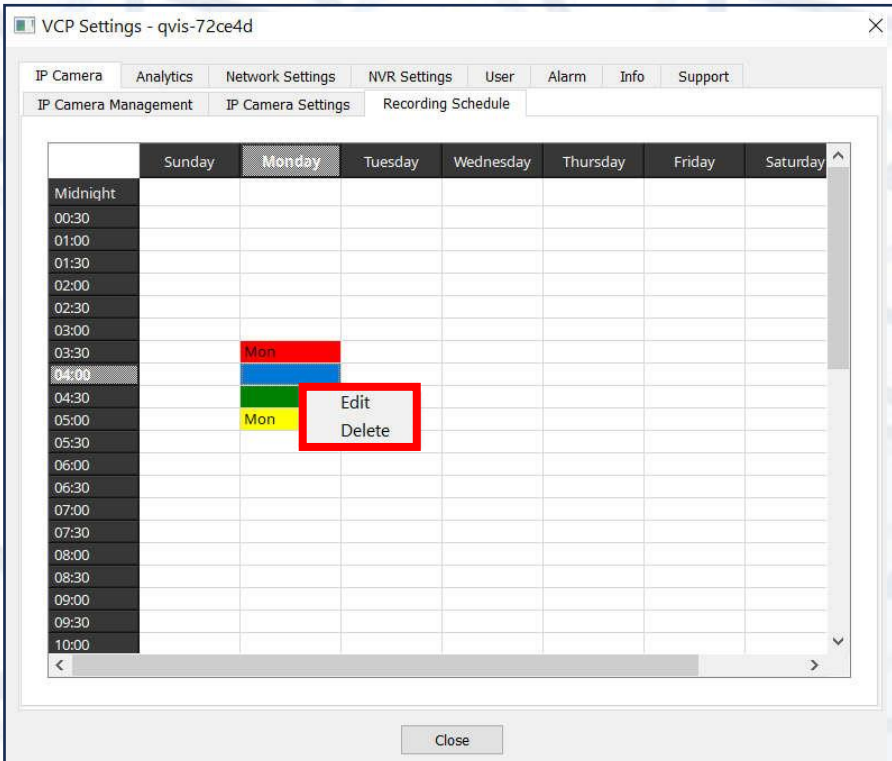
When all values have been properly edited, click on '**Apply**' to save the changes. Click on '**Cancel**' to discard. The Recording Schedule Settings will now look like this:



11. VCP Settings (Contd..)

IP Camera (Continued)

Once a block has been created, the Schedule Details can be edited, or the block can be deleted. Simply right click anywhere on the block to bring up a pop up with two options (as highlighted in the red box below):



Edit: This opens the associated Schedule Details window for editing.

Delete: This deletes the selected block from the schedule window.

Note: When configuring, there is a maximum scheduling block of 24 consecutive hours. If a block is to be longer than 24 consecutive hours, an adjoining block must be created. If the settings are consistent from one block to the next, there will be no interruption in the recording.

11. VCP Settings (Contd..)

IP Camera (Continued)

In The Commander NVR, Recording Schedule GUI has changed as shown below.

Select the Camera
Select the Day

VCP Settings - qvis-7b48cf

IP Camera Analytics Network Settings NVR Settings User Alarm Info Support

IP Camera Management IP Camera Settings Recording Schedule

Cam 1.128

uesday

From To

Period 1 00:00:00 00:00:00 ☒ Apply All Day

Period 2 00:00:00 00:00:00 ☒ Apply All Day

Period 3 00:00:00 00:00:00 ☒ Apply All Day

Period 4 00:00:00 00:00:00 ☒ Apply All Day

Period 5 00:00:00 00:00:00 ☒ Apply All Day

☒ Enable full day recording

Pre-Context 4 (Range should be between 0-30 seconds)

Apply

Close

Key features:

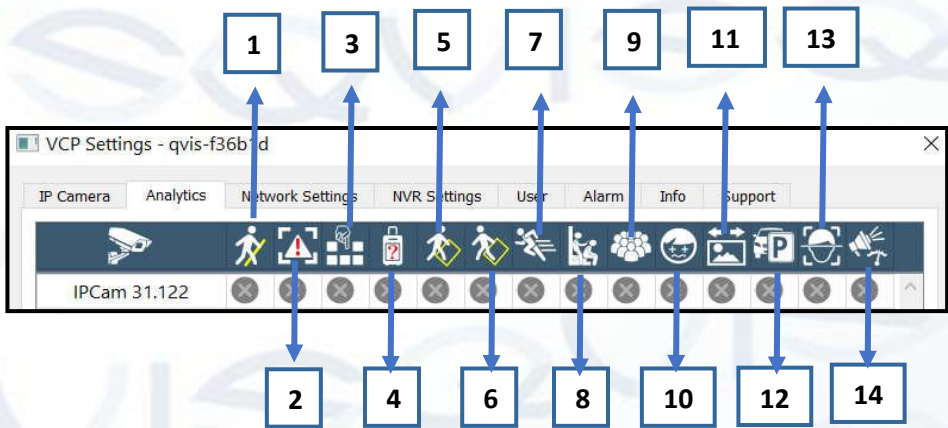
- For full day recording: Select the check box of 'Enable full day recording'.
- Recording can also set five (5) different period of a day. Here de-select the check box of 'Apply All Day'.
- Recording can also set five (5) different period of All the day by selecting the check box of 'Apply All Day'.
- Pre-Context range should be between 0-30 seconds.

11. VCP Settings (Contd..)

Analytics

Analytics:

This menu allows you to configure Video Analytics on Video Analytics capable IP cameras in the λ| Cortex NVRs. This is a smart feature which can be used for analysing the events occurred in real time and alerting the user about the same. There are 14 different analytics features supported.



1. **Line Crossing:** Allows you to add a line or multiple lines on a specific camera that acts as a virtual barrier. If the set line is crossed, then alarm gets triggered. In The Commander NVR, it is called as 'TripWire'.
2. **Area Intrusion:** Triggers an alarm when any object intrudes the defined region. Named as "Intrusion" in The Commander NVR.
3. **Object Missing:** Triggers an alarm whenever an object is removed from a pre-defined region.
4. **Unattended Object:** Triggers an alarm whenever an object is left unattended in the pre-defined region.
5. **Region Entrance:** Triggers an alarm whenever an object enters a pre-defined region.
6. **Region Exit:** Triggers an alarm whenever an object exits a pre-defined region.

11. VCP Settings (Contd..)

Analytics (continued)

7. **Fast Moving:** Triggers an alarm whenever an object moves fast in a pre-defined region.
8. **Loitering Detection:** Triggers an alarm when people go straight and back at least 3 times, or go not in a straight line in a pre-defined virtual region.
9. **People Gathering:** Triggers an alarm when there are many people in a pre-defined virtual region.
10. **Blurred Detection:** Triggers an alarm when defocus of the lens is detected.
11. **Scene Change Detection:** Triggers an alarm when change of environment affected by external factors is detected, such as the intentional rotation of the camera.
12. **Parking Detection:** Triggers an alarm whenever an object is parked in a pre-defined region.
13. **Face Detection(FD):** FD has only one area of interest to configure where faces are to be detected. Alarm section is same as other analytics. Need to set sensitivity value in configure window.
14. **Abnormal Audio Detection:** Triggers an alarm when an abnormal sound is detected in the surveillance scene, such as the sudden increase/decrease of the sound intensity. It is also called 'Abnormal Audio Detection'. For the time being, this is not showing up in the configuration window.

In The Commander NVR, camera support only 4 Analytics type. They are TripWire, Intrusion, Face Detection (FD) and Face Recognition (FR). TripWire, Intrusion and FD are already discussed above in Page No.50 and 51.

Face Recognition (FR): FR is possible only if FD is enabled. FR has only one area of interest. In the configure window for FR, sensitivity and similarity have to be set.

Limitation on Usage of AI/Analytics functions on The Commander NVRs:

- a. Maximum 4 cameras (channels) can be used for Analytics.
- b. NVR can supports either 4 cameras for IVS - Intelligent Video *Surveillance* (TripWire and Intrusion) or 2 cameras FD (Face Detection) / FR (Face Recognition) enabled.

11. VCP Settings (Contd..)

Analytics (continued)

- c. If FD/FR is enabled on a camera, then IVS supports only for 2 other cameras.
- d. If FD/FR is enabled on two cameras, then IVS cannot be enabled in any camera in the NVR.
- e. If IVS is enabled on 4 cameras, then FD/FR can't be enabled in any camera.

Status of these feature i.e. whether feature is enabled or not can be quickly seen for the particular camera in this menu.

To configure a feature, double click on camera name or select a camera and then click on **'Configure'** button. This will bring up **'Configure Analytics'** page. **'Configure Analytics'** page has three sections: **Parameter Settings**, **Area of Interest** and **Alarm Settings**.

The screenshot shows the 'Configure Analytics' window for 'IPCam 31.122'. The window is divided into three main sections, each highlighted with a red box and labeled with a red arrow:

- Parameter Settings:** This section includes 'Analytics Type' (set to 'Line Crossing'), 'Enable' (checked), 'Area of Interest' (set to '1'), 'Target' (with checkboxes for 'Vehicle' and 'Human'), and 'Direction' (set to 'L<->R').
- Area of Interest:** This section shows a live video feed of a street scene. A yellow line is drawn across the road, indicating the selected area of interest. A red arrow points to this line with the label 'Area of Interest selected'.
- Alarm Settings:** This section includes checkboxes for 'Log Event', 'Audible Alarm', and 'Push Notify'. Below these are 'Video Alarm' (set to 'No'), 'Relay' (set to 'None'), and 'Email Settings' (set to 'No Email'). There is also an 'Email Recipients' button.

At the bottom of the window, there are 'Apply' and 'Close' buttons. A 'Clear Region' button is located at the bottom right of the video feed area.

11. VCP Settings (Contd..)

Analytics (continued)

Parameter Settings:

Parameter settings has drop down menu to select 'Analytics feature' to be configured and its corresponding parameter options.

Enable: Checkbox to enable/disable the analytics feature.

Area of Interest: Dropdown list to select area of interest number to set different alarm area. Each alarm area may have its own parameter options like sensitivity, percentage, time threshold etc depending on feature selected. How to setup alarm area is given under '**Area of Interest**' section below.

Direction:

Dropdown list to select direction for line crossing feature. Directions can be:

- **L->R:** Left to Right (Objects crossing left to right direction, triggers the alarm).
- **L<-R:** Right to Left (Objects crossing right to left direction, triggers the alarm).
- **L<->R:** Bidirectional (Objects crossing both the directions, triggers the alarm).

Sensitivity:

- Higher the value is, the more easily alarm will be triggered.
- Range is [1-5] seconds in Face Detection analytic type.
- Range is [1-100] seconds for other analytic types wherever applicable.

Time Threshold:

- Time that the object must stay in the area to trigger the alarm.
Eg. The time threshold set as '0' means the alarm can be trigger immediately when target object happens in alarm area.
- Range is [0-10] seconds in Area Intrusion and Loitering Detection.
- Range is [0-100] seconds in Parking Detection and it will spend at least 10 seconds to judge an object was an unattended object or not.
- Range is [5-3600] seconds in other analytic types, wherever applicable.

Percentage:

- If the object size reached the percentage set in alarm area, only then it will trigger alarm.
- Range is [1-100] Seconds.

11. VCP Settings (Contd..)

Analytics (continued)

Event Interval:

- This is the time interval between consecutive alarms.

Eg: When an event occurs, it triggers an alarm and within the next 10 seconds if another event occurs, if the event interval has been set to 10 seconds, then no alarm will be triggered again. The next alarm will be raised for the events only after 10 seconds.

- Range is [1-600] seconds.

Strategy:

3 Strategies can be chosen in Loitering Detection: Journey, Weight and Offset. You can choose one, two or all of them.

- **Journey Strategy:**

It will judge loitering detection based on whole journey of the target object. The distance threshold default is the longest diagonal of the alarm area.

- **Weight Strategy:**

It will judge loitering detection based on number of turn back. The default number of threshold is 3 times.

- **Offset Strategy:**

It will judge loitering detection based on target object degree of offset linear motion. When journey is exceeding the current frame to first frame journey plus the 3/7 width of screen, then it will trigger loitering detection.

Abnormal Audio Input:

If the audio value is less than 20db, then it will trigger the alarm.

Strong Sound intensity:

“Sensitivity” parameter is used to control the audio threshold. If the sensitivity is higher, a slight rise in the audio intensity will trigger the alarm. If the sensitivity is lower, only a heavy noise will trigger the alarm. “Time threshold” indicate that the current audio value exceeds the threshold will trigger alarm.

Sound Intensity Dropped Sharply:

“Sensitivity” parameter is used to control the audio threshold. If the sensitivity is higher, a slight reduce in the audio intensity will trigger the alarm. If the sensitivity is lower, a slight rise will trigger the alarm.

11. VCP Settings (Contd..)

Analytics (continued)

Area of Interest:

Alarm area where detections should work or line to be used for line crossing detection can be defined using displayed snapshot image of camera on left side of '**Configure Analytics**' page.

To setup lines for line crossing detection:

- Choose the number of lines by selecting number from "Area of Interest" dropdown list.
- Click and drag to draw line of desired length on displayed snapshot image of camera.

To setup areas for other analytic detections:

- Choose the number of areas by selecting number under "Area of Interest" dropdown list.
- Click and drag to draw an area of desired size on displayed snapshot image of camera.
- The line / area drawn will be displayed on the snapshot.
- Sensitivity / Percentage / Direction / Time Threshold can be set for each line / area wherever applicable.
- Maximum 4 different lines / area can be configured under '**Area of Interest**' except for Face detection. In Face Detection, only 1 area can be configured.
- For Scene Change detection, Blur detection and Audio Exception, '**Area of Interest**' is not applicable.

To clear the line/ alarm area, Click on '**Clear Region**' button. For features which have option to define line/alarm area, unless line/area is configured, feature won't work even if feature is enabled.

11. VCP Settings (Contd..)

Analytics (continued)

Alarm Settings:

This menu allows you to setup alarm triggers using the Analytics feature of the λ|Cortex NVRs. When Analytics event is detected on the camera you have selected, you can set up to seven different ways to be alerted.

Log Event: If this box is checked, event will be listed within the '**Event Log**' found in the '**Info**' section of the '**Settings**'.

Audible Alarm: If this box is checked, you can hear the Sound/Buzzer for alarm.

Push Notify: In the event of VA alarm, push notification will be sent to mobile devices.

Video Alarm: This will allow the bottom borders of the video tile to flash on receiving an event. When an alarm occurs, the user is informed about the new Alarm with a flashing label in the camera's Live view and a flashing button in the Playback view. A right click (on Live view) will list all Alarms for that camera. The user can choose to view the Alarm or delete it without viewing.

Relay : You can manually control each of the 4 relays connected to the NVR. In The Commander NVR, it has 2 relays.

Email Settings: You can select any one option from the list box, such as, No Email, Email only, email with 1 snapshot, 3 snapshot, 5 snapshot, 7 snapshot, 9 snapshot to a stipulated email address. This feature allows you to store and distribute the snapshot to external data storage mediums away from the NVR. In The Commander NVR, it has a check box to select Email option. It will email with an attachment.

Email Recipients: An email will be sent to an external email account, which you will be able to setup in the '**Network Settings**' menu section. Event specific recipients can be selected using '**Email Recipients**' button. By clicking on this button, a popup window will appear with list of email IDs.

11. VCP Settings (Contd..)

Analytics (continued)

Latch:

In The Commander NVR, if user has configured “Relay” option for an analytics event then “Latch” time is the duration for which the relay should be in active/ON state after the event. This is configurable per camera per analytics type.

Post Record:

In The Commander NVR, this is for post recording interval after an event trigger, if schedule based recording is enabled. Set a duration between 0-120 seconds.

Click on **Apply/Close** to save/close the settings.

11. VCP Settings (Contd..)

Network Settings

The **Network Settings** Menu has 7 sub menus:

DHCP/Manual and DNS

Ports

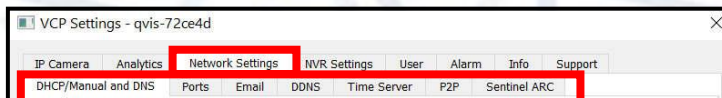
Email

DDNS

Time Server

P2P

Sentinel ARC



DHCP/Manual and DNS:

This allows you to configure your network settings and DNS (Domain Name System) settings.

A screenshot of the 'DHCP/Manual and DNS' configuration window within the 'VCP Settings - qvis-72ce4d' application. The window shows the 'Status' as 'Connected' with the message 'Your network connection is currently active'. The 'Configure' dropdown menu is set to 'Manual'. Below this, there are input fields for 'IP Address' (192.168.18.210), 'Subnet Mask' (255.255.240.0), 'Gateway' (192.168.16.1), 'DNS' (8.8.8.8), and 'Ethernet Speed' (1000baseT). At the bottom, there are 'Apply' and 'Cancel' buttons.

Status: Displays the status of the network connection.

Configure: Use this drop-down menu to select how the network connection will be configured using '**DHCP**' or '**Manual**'. If you know your IP address, then it is recommended that you select '**Manual**' and insert it into the IP Address bar.

IP Address: Field to view / edit the NVR's IP Address.

11. VCP Settings (Contd..)

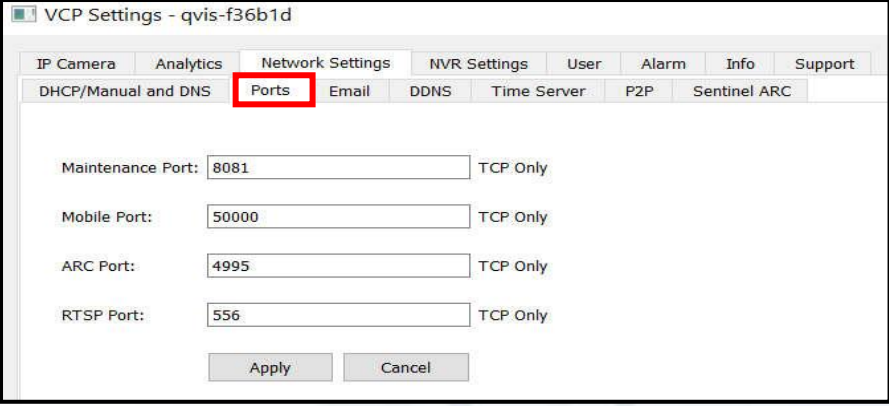
Network Settings (Continued)

- Subnet Mask:** Field to view / edit the NVR's Subnet Mask.
- Gateway:** Displays the Gateway IP Address.
- DNS:** This allows you to change the DNS setting. The DNS setting is automatically detected when connected to a network. If it needs to be changed then you can enter a new DNS setting into the input bar.
- Ethernet Speed:** Displays the speed of the NVR's Ethernet connection.

Click on '**Apply**' to confirm any changes done or on '**Cancel**' to reject.

Ports:

This allows you to change WAN Access - Port settings.



The screenshot shows the 'VCP Settings - qvis-f36b1d' window. The 'Network Settings' tab is selected, and the 'Ports' sub-tab is highlighted with a red box. The 'Ports' sub-tab contains four input fields for port configuration, each with a 'TCP Only' label to its right. The fields are: 'Maintenance Port' with value '8081', 'Mobile Port' with value '50000', 'ARC Port' with value '4995', and 'RTSP Port' with value '556'. At the bottom of the 'Ports' sub-tab are two buttons: 'Apply' and 'Cancel'.

Port Name	Port Value	Protocol
Maintenance Port	8081	TCP Only
Mobile Port	50000	TCP Only
ARC Port	4995	TCP Only
RTSP Port	556	TCP Only

The NVR uses the above ports to listen for incoming client connections. The protocol type for each port is shown to its right.

If the NVR is inside a firewall, the firewall may need to be configured to pass through traffic on this ports.

In X-Range, NVR supports 'Maintenance Port' for SSH login.

Note: See your firewall user guide/ instructions to find out how to do this.

11. VCP Settings (Contd..)

Network Settings (Continued)

Email Settings:

Fill in your email account's details so that the NVR can send notification messages to the email address account you have provided. Email notification messages can include info on hard drive or camera statuses and alarm alerts if you have set up your motion detection configuration correctly. If you are unsure of the SMTP (Simple Mail Transfer Protocol) Port number or Server name; refer to your email address account 'Help' or 'Configuration' options. Entering your email account details will allow you to complete the sensor and alarm events setup.

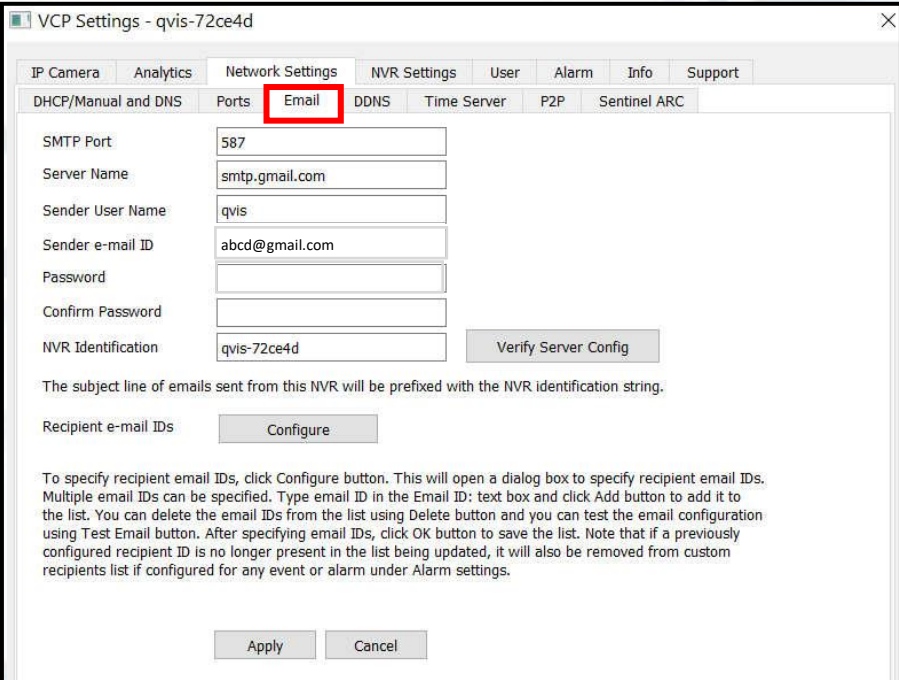
Input details into these fields:

SMTP Port: Simple Mail Transfer Protocol Port, e.g. 587 for Gmail.

Server Name: SMTP server name, e.g. "smtp.gmail.com" for Gmail.

Sender User Name: The name registered with the email account.

Sender e-mail ID: This is the email address which will be used by the NVR to send notifications to the recipients.



VCP Settings - qvis-72ce4d

IP Camera Analytics Network Settings NVR Settings User Alarm Info Support

DHCP/Manual and DNS Ports **Email** DDNS Time Server P2P Sentinel ARC

SMTP Port: 587

Server Name: smtp.gmail.com

Sender User Name: qvis

Sender e-mail ID: abcd@gmail.com

Password:

Confirm Password:

NVR Identification: qvis-72ce4d

Verify Server Config

The subject line of emails sent from this NVR will be prefixed with the NVR identification string.

Recipient e-mail IDs: Configure

To specify recipient email IDs, click Configure button. This will open a dialog box to specify recipient email IDs. Multiple email IDs can be specified. Type email ID in the Email ID: text box and click Add button to add it to the list. You can delete the email IDs from the list using Delete button and you can test the email configuration using Test Email button. After specifying email IDs, click OK button to save the list. Note that if a previously configured recipient ID is no longer present in the list being updated, it will also be removed from custom recipients list if configured for any event or alarm under Alarm settings.

Apply Cancel

11. VCP Settings (Contd..)

Network Settings (Continued)

Password: This is the password you use for the sender email account.

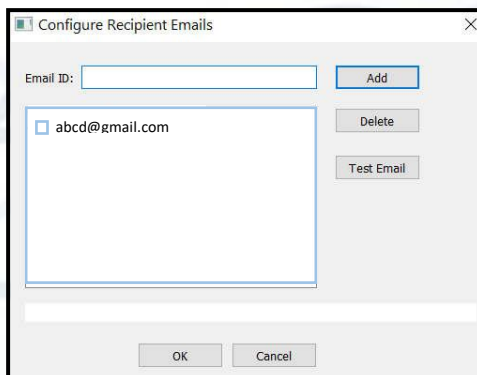
NVR Identification: The subject line of emails sent from this NVR will be prefixed with the NVR Identification string.

Recipient e-mail IDs: Email IDs to which the notification emails have to be sent can be added here.

To specify recipients email IDs, click on **Configure** button. This will open a dialogue box to specify recipient email IDs. Multiple email IDs can be added. Type email ID in the **Email ID:** Text box and click on **Add** button to add it to the list.

You can delete the email IDs from the list using **Delete** button and you can test the email configuration using **Test Email** button. After specifying email IDs, click on **OK** button to save the list.

Note that if a previously configured recipient ID is no longer present in the list being updated, it will also be removed from custom recipients list if configured for any event or alarm under Alarm settings.



After entering all email parameter, click on '**Verify Server Config**' button. If all details entered are correct, a self-email will be sent to the sender email ID and success message will be displayed in the bottom of the window.

In The Commander NVR, User has to set Encryption type either TLS/SSL. Click on check box for Snapshot attachment will send 1 snapshot on alarms trigger

Click on '**Apply**' to save the configuration details. Click on '**Cancel**' to discard changes.

11. VCP Settings (Contd..)

Network Settings (Continued)

DDNS Settings:

DDNS (Dynamic DNS) is a technique to deal with an ever-changing (i.e., not static) public IP address at the NVR site (where the NVR is located and setup).

DDNS Enable: Check this to enable the DDNS feature.

DDNS Provider: Choose either DynDNS, qvisddns or No-IP.

User Name: Enter your username as assigned at either DynDNS, qvisddns or No-IP.

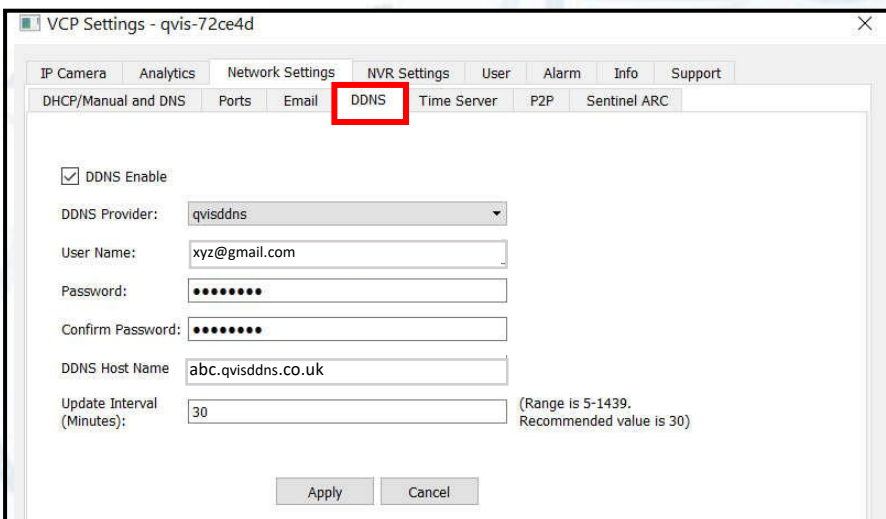
Password: Enter your password as assigned at either
DynDNS, qvisddns or No-IP.

Confirm Password: Re-enter password.

DDNS Host Name: Name as chosen from DynDNS, qvisddns or No-IP.

Update Interval (Minutes): Once per day is enough: enter **1439** (minutes in one day).

Click on **'Apply'** to confirm selections. Click on **'Cancel'** to reject selections.



The screenshot shows the 'VCP Settings - qvis-72ce4d' window with the 'DDNS' tab selected. The 'DDNS Enable' checkbox is checked. The 'DDNS Provider' dropdown is set to 'qvisddns'. The 'User Name' field contains 'xyz@gmail.com'. The 'Password' and 'Confirm Password' fields are masked with dots. The 'DDNS Host Name' field contains 'abc.qvisddns.co.uk'. The 'Update Interval (Minutes)' field contains '30'. A note indicates the range is 5-1439 and the recommended value is 30. The 'Apply' and 'Cancel' buttons are at the bottom.

IP Camera	Analytics	Network Settings	NVR Settings	User	Alarm	Info	Support
DHCP/Manual and DNS	Ports	Email	DDNS	Time Server	P2P	Sentinel ARC	

☒ DDNS Enable

DDNS Provider: qvisddns

User Name: xyz@gmail.com

Password:

Confirm Password:

DDNS Host Name: abc.qvisddns.co.uk

Update Interval (Minutes): 30 (Range is 5-1439. Recommended value is 30)

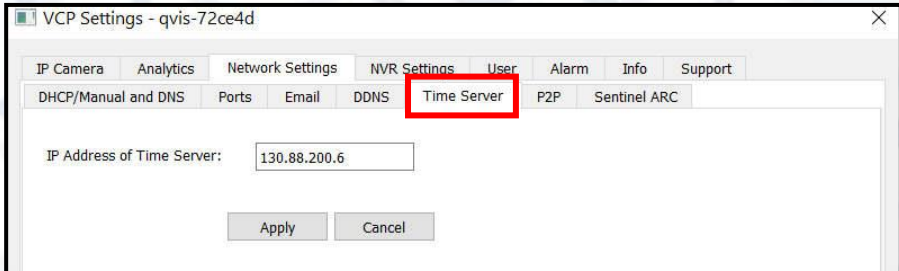
Apply Cancel

11. VCP Settings (Contd..)

Network Settings (Continued)

Time Server:

A time server provides an accurate current time and date for the NVR. The NVR will refer to when it needs to constantly keep an accurate time and date on its system. If you need to change the time server IP address, input the new one into the single field provided.

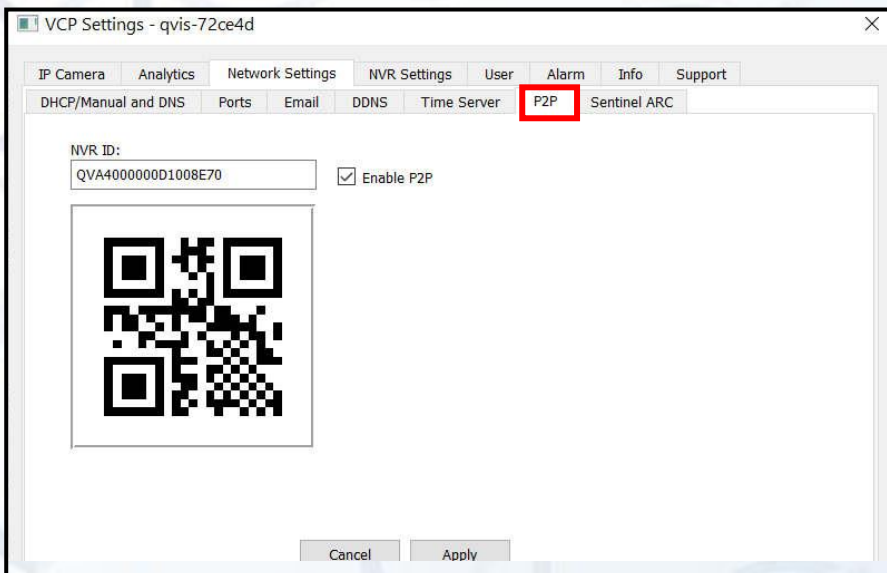


The screenshot shows the 'VCP Settings - qvis-72ce4d' window with the 'Time Server' tab selected. The 'IP Address of Time Server' field contains '130.88.200.6'. The 'Apply' and 'Cancel' buttons are at the bottom.

P2P:

Enable P2P will help mobile client to access NVR using QR code/NVR ID of NVR.

Click on '**Apply**' to save the changes, click on '**Cancel**' to discard the changes.



The screenshot shows the 'VCP Settings - qvis-72ce4d' window with the 'P2P' tab selected. The 'NVR ID' field contains 'QVA4000000D1008E70'. The 'Enable P2P' checkbox is checked. A QR code is displayed below the NVR ID field. The 'Cancel' and 'Apply' buttons are at the bottom.

11. VCP Settings (Contd..)

Network Settings (Continued)

Sentinel ARC:

If you have a registered account with Qvis Monitoring Ltd you will be instructed on what information needs to be included within this configuration ('Entity ID' is the λ | Cortex NVR's IP address).

VCP Settings - qvis-72ce4d

IP Camera | Analytics | Network Settings | NVR Settings | User | Alarm | Info | Support

DHCP/Manual and DNS | Ports | Email | DDNS | Time Server | P2P | **Sentinel ARC**

Host IP Address: XXX.XXX.XX.XXX

Port Number: 123456

Entity ID: XXX.XXX.XX.XXX

Enable Transmitter Test: ☐ Interval Mins

Video Duration:

On Sensor trigger, a video below duration is pushed to ARC, provided "Notify Alarm Receiving Center" option is checked in "Alarms" menu.

Pre-Context Interval: 1 Seconds

Post-Context Interval: 7 Seconds

Test ARC Connection

Apply Cancel

QVIS[®]
MONITORING LTD

"The most accredited ARC in the UK"

To connect your CCTV system to our Alarm Receiving and CCTV monitoring Centre please contact us on:

TEL: **02393 870057**
Email: sales@qvismonitoring.co.uk

11. VCP Settings (Contd..)

NVR Settings

The **NVR Settings** Menu has 5 sub menus:

General

Identification and Reboot

Date Time

Recording Parameters

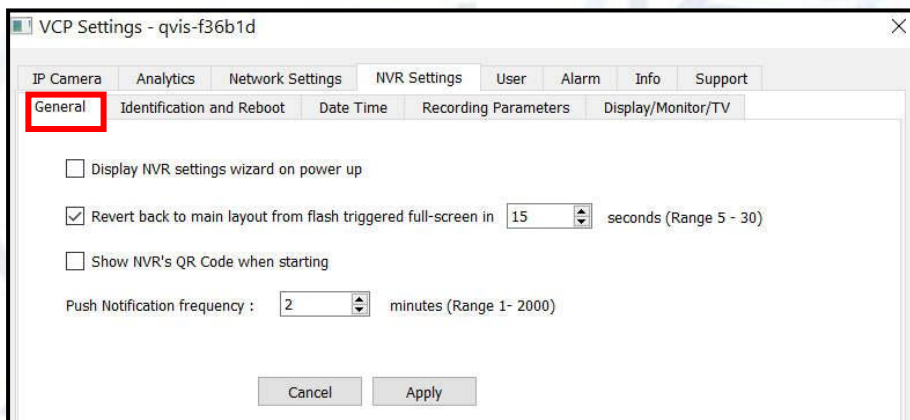
Display/Monitor/TV



General:

Display NVR settings wizard on power up

By selecting this we can get NVR settings wizard on power up of the NVR. It will allow to change NVR settings on power up. Once it has done, it will not show up again.



Revert back to main layout from flash triggered full screen in X seconds:

When Video alarm triggers, that particular video will be pushed to full screen. Time set here will decide the reverting back to main layout.

Show NVR's QR Code when starting:

Displays NVR's QR code required to enable P2P for mobile client on power up.

Notification frequency(minutes):

Push notification frequency can be set here.

11. VCP Settings (Contd..)

NVR Settings (Continued)

Identification and Reboot:

NVR name and description:

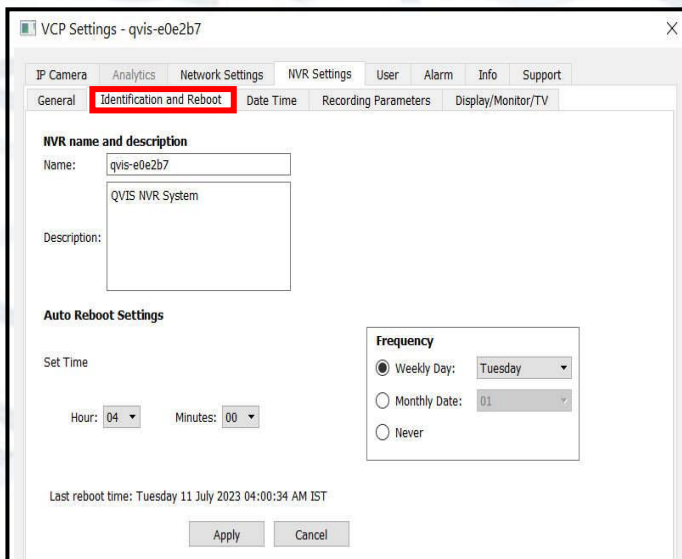
This menu allows you to give a name and description to the NVR. This is useful if you have multiple NVR's in your network.

Auto Reboot Settings:

This allows you to set up an automatic restart at a specific and repeated time.

'Set Time' can be set up using the Hour/Minutes for auto reboot.

Under **Frequency** option, user has 3 options. User can select either Weekly day or Monthly Date or Never option for Auto Reboot Settings.



VCP Settings - qvis-e0e2b7

IP Camera Analytics Network Settings **NVR Settings** User Alarm Info Support

General **Identification and Reboot** Date Time Recording Parameters Display/Monitor/TV

NVR name and description

Name: qvis-e0e2b7

Description: QVIS NVR System

Auto Reboot Settings

Set Time

Hour: 04 Minutes: 00

Frequency

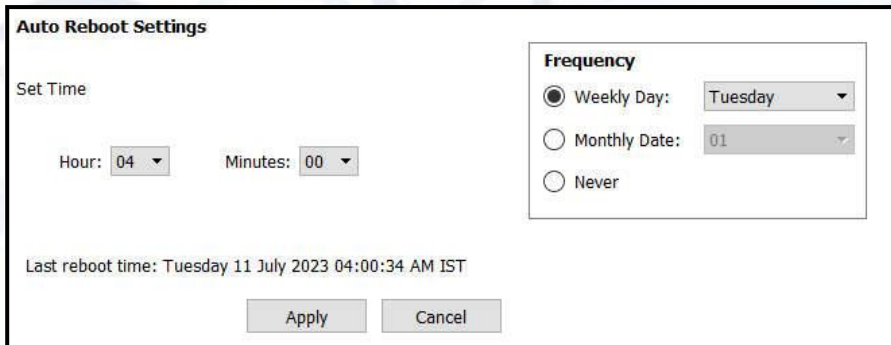
☒ Weekly Day: Tuesday

☐ Monthly Date: 01

☐ Never

Last reboot time: Tuesday 11 July 2023 04:00:34 AM IST

Apply Cancel



Auto Reboot Settings

Set Time

Hour: 04 Minutes: 00

Frequency

☒ Weekly Day: Tuesday

☐ Monthly Date: 01

☐ Never

Last reboot time: Tuesday 11 July 2023 04:00:34 AM IST

Apply Cancel

Last reboot time:

This states the date and time of the last restart.

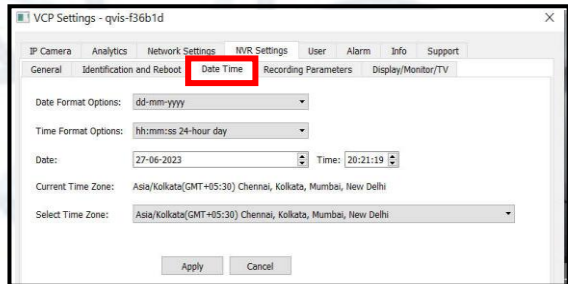
Click on '**Apply**' to save selection, click on '**Cancel**' to discard changes.

11. VCP Settings (Contd..)

NVR Settings (continued)

Date Time:

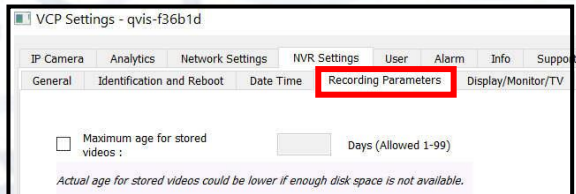
This allows you to set the date, time and time zone.



Recording Parameters:

Maximum age for stored videos:

Mention number of days to retain stored video.



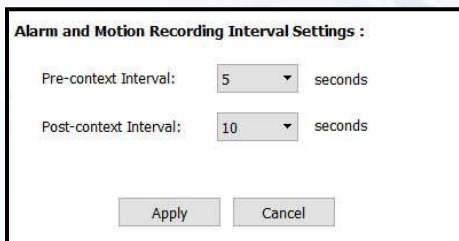
However actual age for stored video depends on the disk space and also varies if there is motion based recording setup for the cameras.

Minimum FPS with motion enabled Recording:

- ☐ Always maintain at least 1 frame per second of recorded when using Motion Sensitivity.

The option will allow you to capture 1 frame per second when motion is detected by the cameras setup to scan for motion. In The Commander NVR, this feature is not available.

Alarm and Motion Recording Interval settings:



11. VCP Settings (Contd..)

NVR Settings (continued)

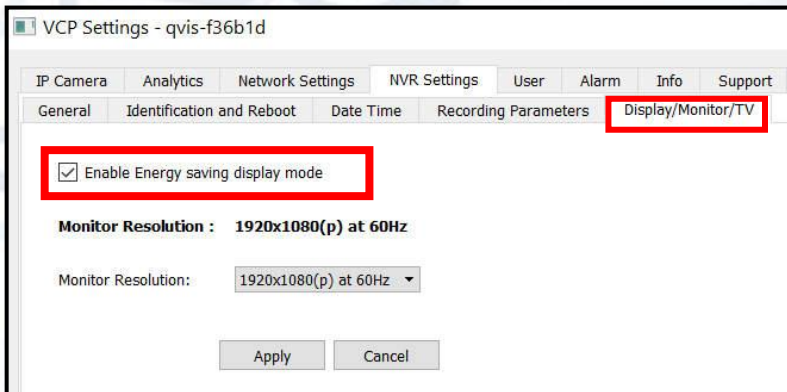
Pre-Context Interval: From the drop-down options you can choose how many seconds (max 5 seconds) of pre alarm trigger footage, taken from data store on the NVR memory are added to the beginning of the captured trigger incident. This is how you can view the run up before the trigger incident so you can establish the scene for easier analysis. In The Commander NVR, this feature is in Recording Schedule window.

Post-Context Interval: From the drop-down options you can choose how many seconds (max 120 seconds) of post alarm trigger footage (when there is no movement for the sensors to detect) is recorded. This again is to establish the scene for easier analysis. In The Commander NVR, this feature is moved to alarm under Sensor and Motion Alarm tabs

Display/Monitor/TV:

Monitor Power saving option:

You can enable power saving option of the monitor by selecting this option as shown in the red box.



Monitor Resolution:

Recommended monitor resolution is **1920x1080(p) at 60Hz**.

You can change Monitor Resolution by selecting any of the given resolution in the drop-down menu. The lower the value, lower the resolution will be.

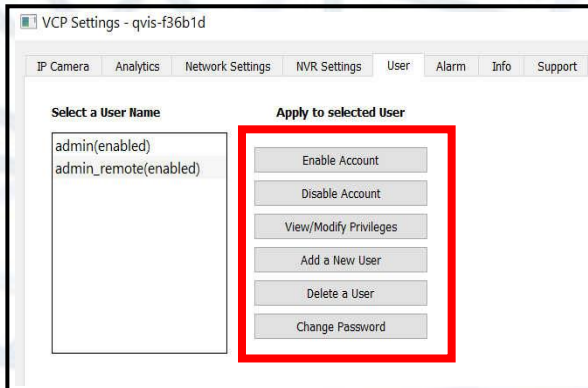
There are two Refresh rates, 60Hz and 50Hz. Refresh Rate is the rate at which screen can refresh itself.

11. VCP Settings (Contd..)

User

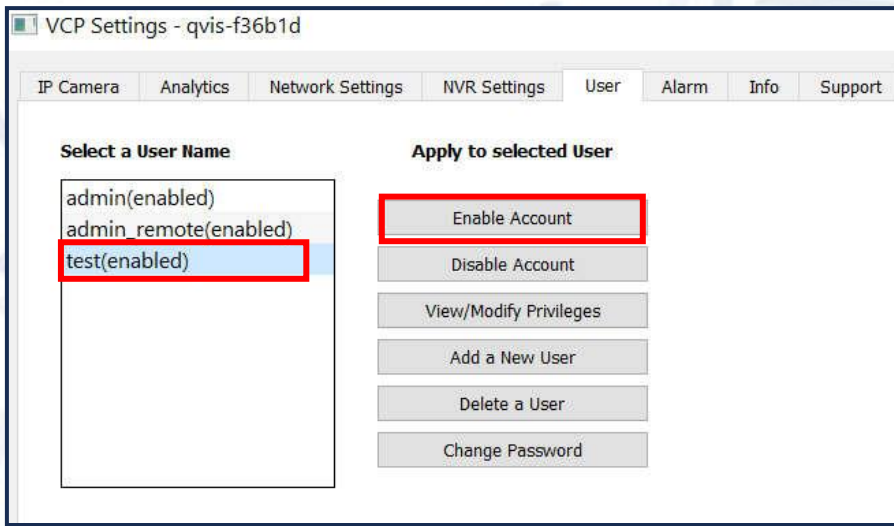
The “User” Menu has 6 sub functions (as highlighted by the red box):

Enable Account
Disable Account
View/modify privileges
Add a new user
Delete a User
Change Password



Enable Account:

This allows you to enable an existing user account.



Select the account you wish to enable in the window on the left-hand side and click on ‘**Enable Account**’. If the account is already enabled nothing will happen.

11. VCP Settings (Contd..)

User (Continued)

Disable Account:

This allows you to disable an existing account.

VCP Settings - qvis-f36b1d

IP Camera Analytics Network Settings NVR Settings User Alarm Info Support

Select a User Name

- admin(enabled)
- admin_remote(enabled)
- test(enabled)

Apply to selected User

- Enable Account
- Disable Account
- View/Modify Privileges
- Add a New User
- Delete a User
- Change Password

Select the account you wish to disable in the window on the left-hand side and click on **'Disable Account'**. If the account is already disabled nothing will happen.

View/Modify Privileges:

This allows you to modify a user's privileges.

In this window, a user's individual privileges can be turned on and off for either local or remote access, simply by clicking on the check box corresponding to the desired privilege.

Clicking on **'Allow All Privileges'** automatically fills all check boxes in that column.

Click on **'Apply'** to save selections.
Click on **'Cancel'** to discard changes.

UserPrivileges

User : test

Local	Remote	Privilege Description
☒	☒	Allow All privileges
☒	☒	Playback Recorded Video
☒	☒	Set the Recording Schedule
☒	☒	Control Pan/Tilt/Zoom
☒	☒	Change the Camera Settings
☒	☒	Change the NVR Settings
☒	☒	Backup Video
☒	☒	Set the Date/Time
☒	☒	View Covert Cameras
☒	☒	Update NVR Software and Reboot/Shutdown the NVR
☒	☒	Change the Network Settings
☒	☒	Change the Alarm Settings
☒	☒	Restrict Cameras (Click Icon to select cameras)

Number of restricted local cameras: 0
Number of restricted remote cameras: 0

Apply Cancel

11. VCP Settings (Contd..)

User (Continued)

Add a New User:

This allows you to add a new user account.

Enter the new username and password. Re-enter the password to confirm.

Click on **'Apply'** to add the user.

The screenshot shows the 'VCP Settings - qvis-f36b1d' window with the 'User' tab selected. On the left, under 'Select a User Name', a list contains 'admin(enabled)' and 'admin_remote(enabled)'. On the right, under 'Apply to selected User', there are buttons for 'Enable Account', 'Disable Account', 'View/Modify Privileges', 'Add a New User' (highlighted with a red box), 'Delete a User', and 'Change Password'. An 'Add New User' dialog box is open in the foreground, containing fields for 'Username' (with 'test' entered), 'Password' (masked with dots), and 'Confirm Password' (masked with dots). The 'Apply' button in this dialog is also highlighted with a red box, while the 'Cancel' button is to its right.

Note: In the event that either the selected username or password does not conform to the NVR security standards, a list of rules will pop up. Re-enter the username and password as necessary.

Once the username and password meet the standards, clicking on **'Apply'** will bring up the Privilege Selection window. See above for instructions.

Click on **'Apply'** to confirm the new user.

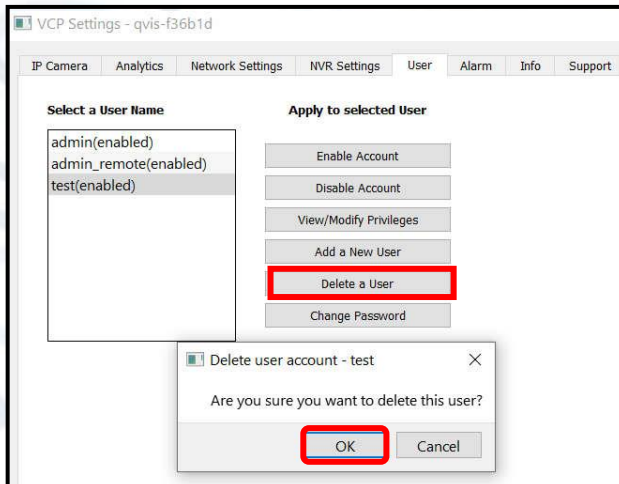
11. VCP Settings (Contd..)

User (Continued)

Delete a User:

This allows you to delete user account.

Selecting the user by clicking on the user name and clicking on **'Delete a User'** button, confirmation pop up window will appear. Click on **'OK'** to delete account.

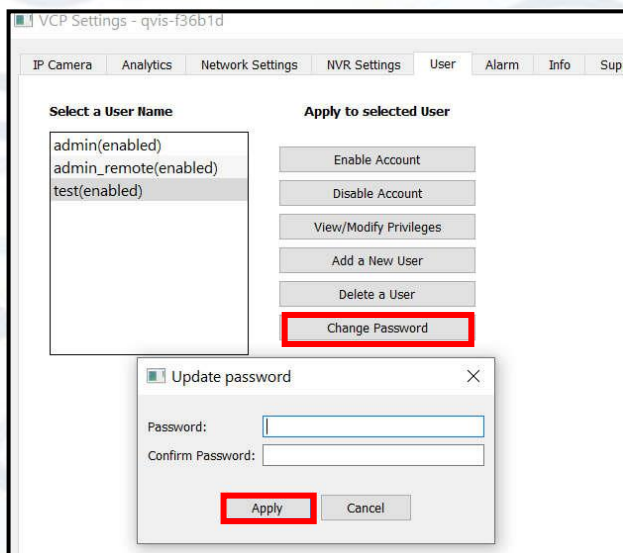


Change Password:

This allows you to change the password of existing user account.

Having clicked on **'Change Password'** button, a **'Update Password'** pop up window will appear. Type new password and confirm the password.

Click on **'Apply'** to continue with new password, **'Cancel'** to discard changes.



11. VCP Settings (Contd..)

Alarm

The Alarm Menu has 5 sub functions.

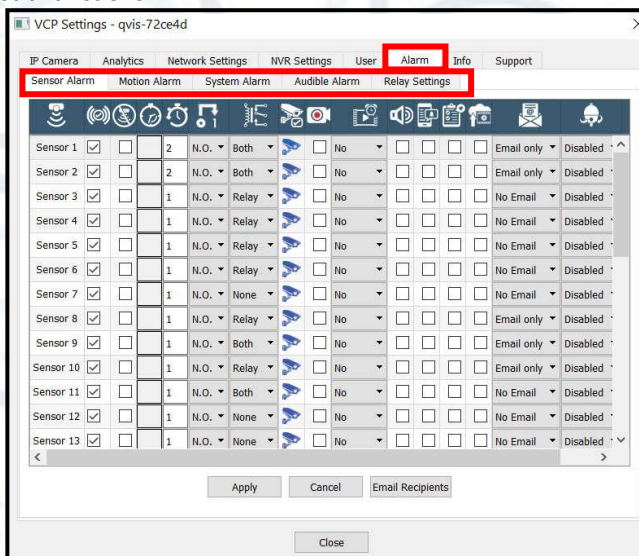
Sensor Alarm

Motion Alarm

System Alarm

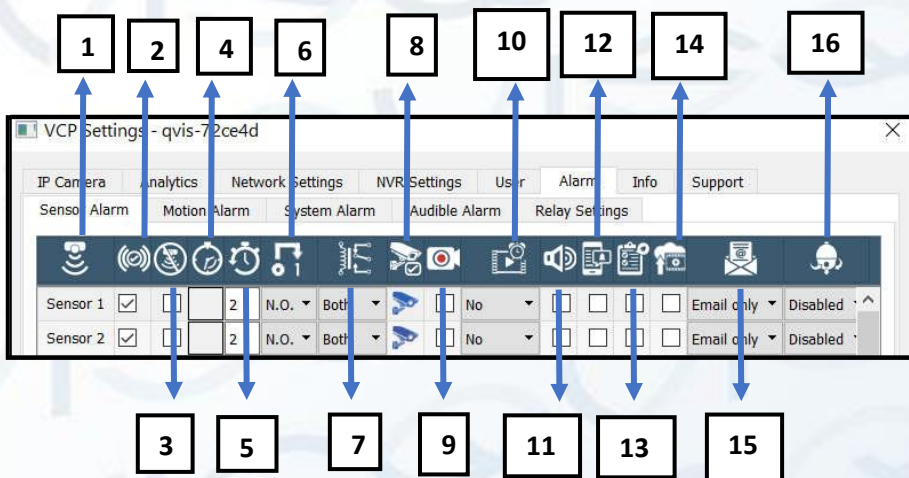
Audible Alarm

Relay Settings



Sensor Alarms:

This menu allows you to set up alarm triggers using the Sensor alarm functions of the λ| Cortex NVRs. When sensors detect any activity (Physical sensors you have selected to use the sensor alarm function), you can set up to sixteen different ways to be alerted in X-Range..



11. VCP Settings (Contd..)

Alarm (Continued)

1. Sensor:

Device that detects activity. You can use up to 32 Sensors, depends on Jaguar card and Extra Ad on CUB card.

2. Enable Sensor Alarm:

By checking this box, you can enable sensor alarms for the particular sensor.

3. Temporarily Deactivate Alarm:

You can temporarily deactivate the alarm for a sensor for certain duration of time.

4. Deactivate Duration:

Time duration for temporary deactivation.

5. Alarm Trigger Frequency:

This is the time between two consecutive sensor triggers for a sensor.

6. Alarm Trigger Level:

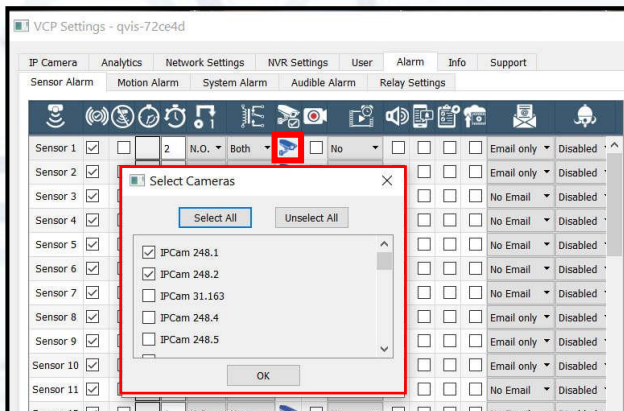
User can select either Normally Open (N.O.) or Normally Closed (N.C.)

7. Relays:

X-Range NVR supports max. 2 Relays. Relay can be connected to any of the 32 sensors. Sensor output is used to control the relays. In X-Range, there are Relay 1, Relay 2, Both or None options.

8. Select Camera:

You can associate up to 32 cameras to a sensor alarm. Any action related to sensor alarm will be applicable to selected camera. When you click on camera symbol a 'Select Cameras' dialogue box will appear. By checking the box, you can select camera for sensor alarm.



11. VCP Settings (Contd..)

Alarm (Continued)

9. Start Recording:

Start Video Recording when the sensor alarm is triggered.

10. Video Alarm:

This will allow the bottom borders of the video tile to flash on receiving an event. When an alarm occurs, the user is informed about the new Alarm with a flashing label in the camera’s Live view and a flashing button in the Playback view. A right click (in Live view) will list all Alarms for that camera. The user can choose to view the Alarm or delete it without viewing.

11. Audible Alarm:

An audible sound will be played when sensor is triggered. You will need to connect an alarm siren to the alarm output on the NVR.

12. Push Notify:

In the event of Sensor alarm, push notification will be sent to mobile devices.

13. Log Events:

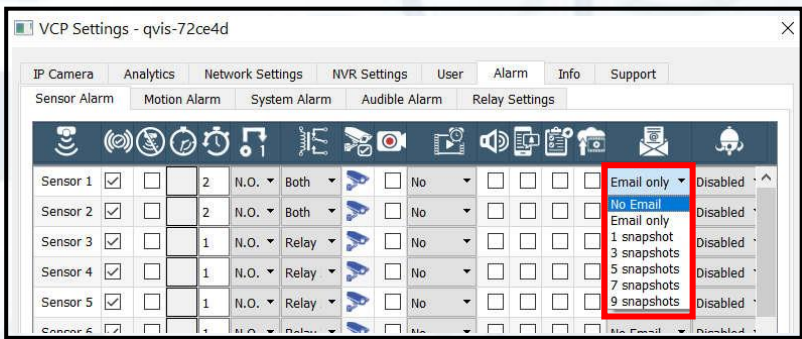
Alarm trigger event will be listed within the ‘Event Log’ found in the ‘Info’ section of the ‘VCP Settings’.

14. Notify ARC:

On Sensor trigger, a video is pushed to ARC, provided “Sentinel ARC” parameters are duly configured.

15. Send Email:

An email will be sent to an external email account, which you will be able to setup in the ‘Network Settings’ menu section. Also, event specific recipients can be selected using ‘Email Recipients’ button. Along with mail, snapshot of the associated cameras will be sent if Snapshot option is selected.



11. VCP Settings (Contd..)

Alarm (Continued)

This menu allows you to setup alarm triggers using the motion alarm feature of the λ| Cortex NVRs. When motion is detected (on the cameras you have selected to use the motion alarm function), you can set up to seven different ways to be alerted.

Camera Name: This is the NVR / user-assigned name of the numbered camera. By default, this is **IPCam 248.1, IPCam 248.2**, etc.

Enable: If this box is checked, Motion Alarm will enable for particular camera.

Motion Sensitivity: By clicking on the drop-down menu to the right of this value, the motion sensitivity setting of the camera can be changed to **Max, Med, Min**, or **Off**. The default value is **Off**.

Smart Motion Detection (SMD): It is the advanced motion alarm, where the motion alarm is triggered only when the motion is detected from a particular target (Human & Vehicle). The motion alarm page in VCP includes an extra column to select the motion target (Human And/OR Vehicle) to configure SMD. The target selection column is enabled only for the SMD supported cameras. Selecting “None” for the target will enable the normal motion alarm. Selecting any other target will enable the SMD.

Record Video: If this box is checked, when there is motion in front of associated camera, video will be recorded.

Log Event: Event will be listed within the ‘**Event Log**’ found in the ‘**Info**’ section of the ‘**Settings**’.

Audible Alarm: Sound/Buzzer for motion alarm.

Push Notify: In the event of motion alarm, push notification will be sent to mobile devices.

Video Alarm: This will allow the bottom borders of the video tile to flash on receiving an event. When an alarm occurs, the user is informed about the new Alarm with a flashing alarm button in the camera’s Live view and in the Playback view. A left click on this alarm button will list all Alarms for that camera.

11. VCP Settings (Contd..)

Alarm (Continued)

For more information see '**Alarms**' on Page 9.

Send Email:

An email will be sent to an external email account, which you will be able to setup in the '**Network Settings**' menu section. Event specific recipients can be selected using '**Email Recipients**' button. By clicking on this button, a popup window will appear with list of email IDs. Select email recipients from the list. '**Email Recipients**' button is located below sensor table.

In The Commander NVR, Post context interval column has been added.

Post context interval: This is for post recording interval after a Motion alarm trigger, if schedule based recording is enabled.

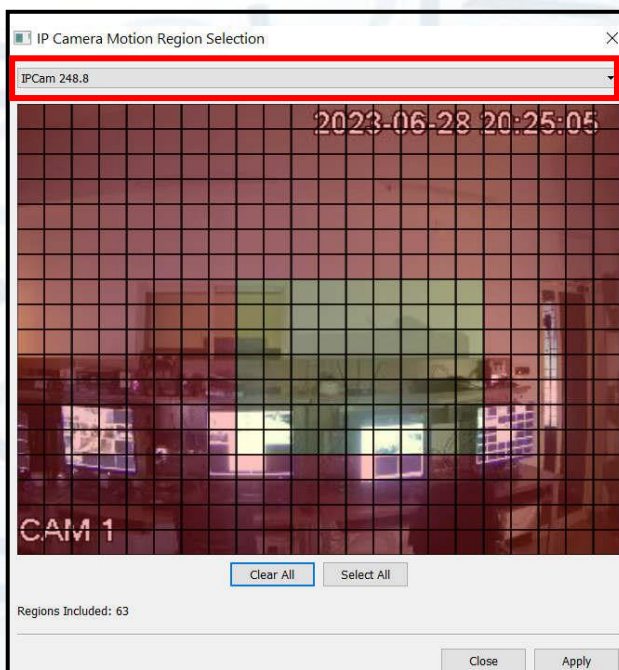
Click on '**More Motion Settings**' to set where on the camera's field of view in the NVR will detect any motion and set up alarm trigger for motion alarm.

The '**IP Camera Motion Region Selection**' window will appear, as shown below:

Select the required camera from drop down menu. (Marked in the red box).

The camera's field of view will be completely cleared to start off with, but you can click the sectors on the grid where you DO NOT WANT the NVR to register motion activity to trigger motion alarm.

Click on '**Apply**' once you are happy with your motion detection setup.



11. VCP Settings (Contd..)

Alarm (Continued)

System Alarm:

This menu allows you to setup alerts if there is a system event in the NVR. When Event is detected, you can set up, up to three different ways to be alerted.

System Events	Log Event	Push Notification	Audio Alarm	Send Email	Custom Email Recipients
HDD Added/Failed/Removed	☒	☒	☒	☒	Select
IP Camera Added/Failed/Disconnected	☒	☒	☐	☐	Select
Minimum IP Camera disconnection duration	2	Minutes			

Apply Cancel

System Events:

1. HDD Added/Failed/Removed:

If new Hard disk is added or existing is removed / failed then λ| Cortex NVRs will send alert.

2. IP Camera Added/Failed/Disconnected:

If new IP Camera is added or existing is removed or disconnected then λ| Cortex NVRs will send alert.

3. Minimum IP Camera disconnection duration:

You can set minimum time for IP camera disconnection duration. If time exceeds the set limit, then NVR will send alert.

Log Event: Event will be listed within the **'Event Log'** found in the **'Info'** section of the **'Settings'**.

Push Notify: In the event of System event if this box is checked, push notification will be sent to mobile devices.

Audio Alarm: If this check box is checked, audio alarm will be triggered in the event of System event.

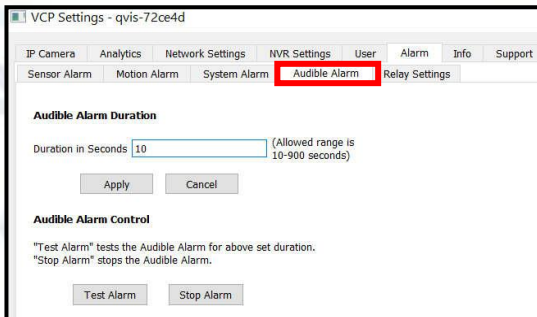
Send Email: An email will be sent to an external email account, which you will be able to setup in the **'Network Settings'** menu section. Event specific recipients can be selected using **'Custom Email Recipients'** button. By clicking on this button, a popup window will appear with list of email IDs. Select email recipients from the list.

11. VCP Settings (Contd..)

Alarm (Continued)

Audible Alarm:

If you have selected '**Audible Alarm**' on the '**Sensor Alarms**' or '**Motion Alarm**' options, then you can set the duration of the alarm being sounded when an alarm has been triggered. It also provides manual control over audible alarm.



The screenshot shows the 'VCP Settings - qvis-72ce4d' interface. The 'Audible Alarm' tab is selected and highlighted with a red box. Below the tab, the 'Audible Alarm Duration' section has a 'Duration in Seconds' input field set to '10', with a note '(Allowed range is 10-900 seconds)'. There are 'Apply' and 'Cancel' buttons. The 'Audible Alarm Control' section contains the text: '"Test Alarm" tests the Audible Alarm for above set duration. "Stop Alarm" stops the Audible Alarm.' and 'Test Alarm' and 'Stop Alarm' buttons.

Test Alarm:

Test the Audible Alarm for set time duration.

Stop Alarm:

Stops the Audible alarm if it is already triggered.

In The Commander NVR, Audible Alarm settings are not supported.

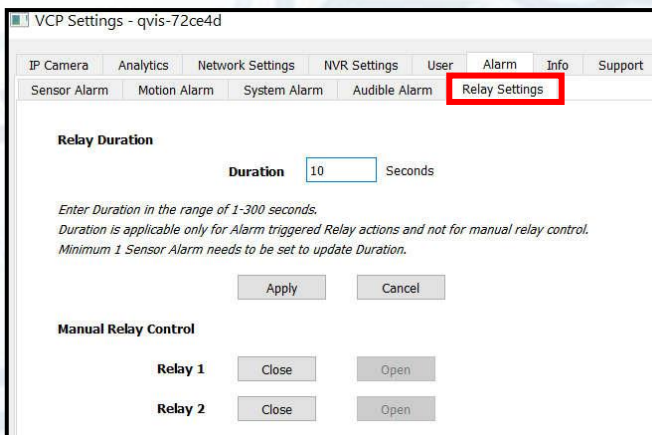
Relay Settings:

If you have activated the relay(s) then you can set the duration of the relay being opened when an alarm has been triggered. Set a duration between 10-300 seconds and click on '**Apply**' to set the duration for which the relay will be open.

By default, '**Relay Duration**' will be set to 10 seconds. To modify the duration, at least one sensor alarm will have to be set in sensor alarms window. If all sensors are disabled, relay duration will reset back to 10 seconds.

Using '**Manual Relay Control**' you can

manually control each of the 2 relays connected to the NVR.



The screenshot shows the 'VCP Settings - qvis-72ce4d' interface. The 'Relay Settings' tab is selected and highlighted with a red box. Below the tab, the 'Relay Duration' section has a 'Duration' input field set to '10' with the unit 'Seconds'. A note states: 'Enter Duration in the range of 1-300 seconds. Duration is applicable only for Alarm triggered Relay actions and not for manual relay control. Minimum 1 Sensor Alarm needs to be set to update Duration.' There are 'Apply' and 'Cancel' buttons. The 'Manual Relay Control' section has two rows: 'Relay 1' and 'Relay 2', each with 'Close' and 'Open' buttons.

11. VCP Settings (Contd..)

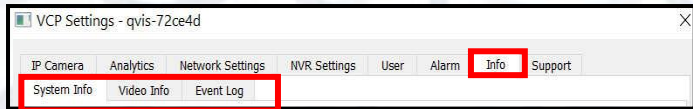
Info

The **Info Menu** has 3 sub menus:

System Info

Video Info

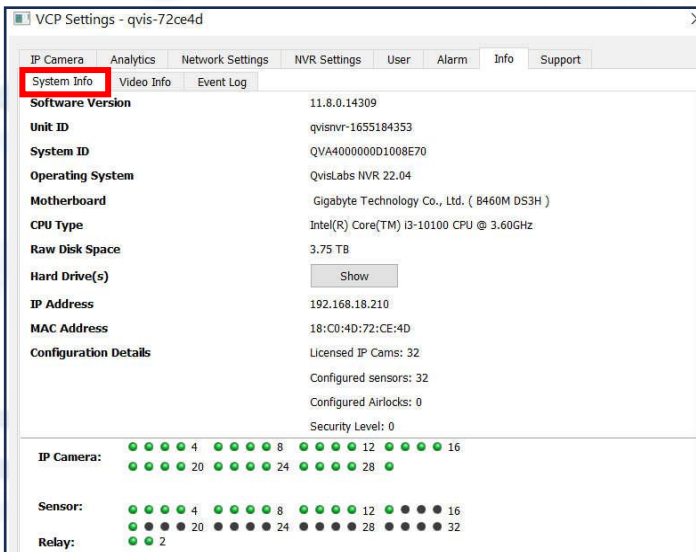
Event Log



No information can be manipulated within these sub menus. It is purely a read-only reference point.

System Info:

This allows you to view your NVR information.



When you click on **'Show'** button, a pop-up window will appear. It will give Hard Disk information.

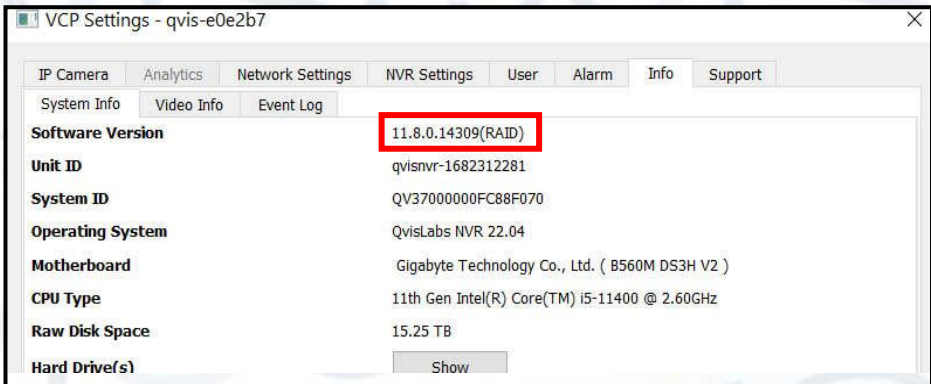
Sl.No	Device	Serial No.	Size	Blacklisted	Model	Vendor
1	sdb	WD-WCC4M0AJ...	2 TB	No	WDC WD20PURZ-85G	ATA
2	sdc	NA	29 GB	No	Ultra Fit	SanDisk
3	sda	WD-WCC4M4VV...	2 TB	No	WDC WD20PURZ-85G	ATA

11. VCP Settings (Contd..)

Info (Continued)

X-Range RAID NVR version 11.7.0.14283 or higher has following information:

- a. Software Version number has a word '**RAID**' in bracket along with Software Version number as shown below:



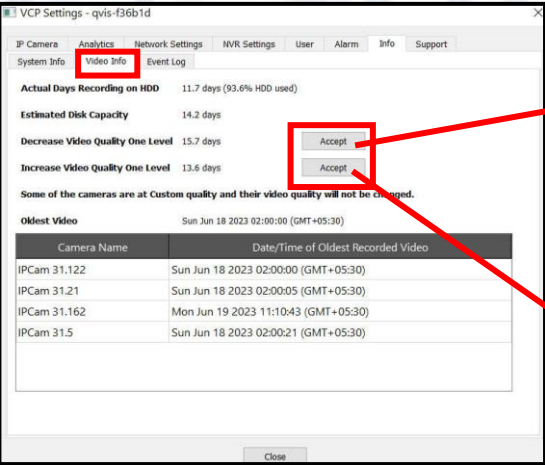
11. VCP Settings (Contd..)

Info (Continued)

Video Info:

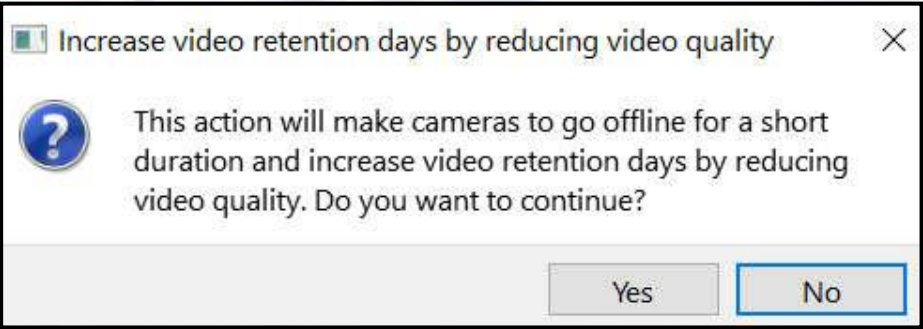
This allows you to view video recording related information.

Allows more control over how much video data is stored to the NVR's hard disk drives, by being able to change how many available days' worth of footage data can be stored. This is done by adjusting the camera's recorded video quality up or down.



To increase the amount of days' worth of footage to store, click the '**Decrease Video Quality One Level**': '**Accept**' button.

To decrease the amount of days' worth of footage, select the '**Increase Video Quality One Level**': '**Accept**' button.



A pop-up info box will appear, similar to above one, when you select either increase / decrease video quality '**Yes**' button.

Oldest Video: In this menu you will also get information of oldest video recorded in the NVR and also by each IP Camera with Date and Time.

11. VCP Settings (Contd..)

Info (Continued)

Event Log:

This allows you to view NVRs event log.

‘**Enable Advanced Search**’ will give you Advanced search option in the Event Log. ‘**First**’ button will lead you to initial messages in the Event Log, while ‘**Last**’ take you to latest message in the Log. In between you can use ‘**Previous**’ and ‘**Next**’ button to move through Event Log.

‘**Go to Date**’ option will show Event Log of set date.

VCP Settings - qvis-f36b1d

IP Camera Analytics Network Settings NVR Settings User Alarm Info Support

System Info Video Info **Event Log**

[Thu Jun 29 17:12:25 2023] INFO: Remote client 192.168.16.59 (admin) - Started stream on IPCam31.122
[Thu Jun 29 17:12:34 2023] INFO: Remote client 192.168.16.59 (admin) - Stopped stream on IPCam31.122
[Thu Jun 29 17:13:03 2023] INFO: Remote client 192.168.16.59 (admin) - Started stream on IPCam31.122
[Thu Jun 29 17:13:14 2023] INFO: Remote client 192.168.16.59 (admin) - Stopped stream on IPCam31.122
[Thu Jun 29 17:14:15 2023] INFO: Remote client 192.168.16.59 (admin) - Started stream on IPCam31.122
[Thu Jun 29 17:14:32 2023] INFO: Remote client 192.168.16.59 (admin) - Stopped stream on IPCam31.122
[Thu Jun 29 17:21:09 2023] INFO: Remote client 192.168.16.151 (admin) - Logged in, client QV Version: 4.0.14112, OS: Windows 8 64-bit, 00:F4:8D:9F:34:CD
[Thu Jun 29 17:38:57 2023] INFO: Remote client 192.168.16.151 (admin) - Started stream on IPCam 31.122
[Thu Jun 29 17:38:57 2023] INFO: Remote client 192.168.16.151 (admin) - Started stream on IPCam 31.21
[Thu Jun 29 17:38:57 2023] INFO: Remote client 192.168.16.151 (admin) - Started stream on IPCam 31.162
[Thu Jun 29 17:38:57 2023] INFO: Remote client 192.168.16.151 (admin) - Started stream on IPCam 31.5
[Thu Jun 29 17:39:13 2023] INFO: Remote client 192.168.16.151 (admin) - Settings user 'admin' logged in

☐ Enable Advanced Search ☒ Enable Autoscroll Clear Log

Advanced Search

First Previous Next Last

Select a Date: 29/06/2023 Go to Date

Please Note: All logs will be in the same language as set on the NVR irrespective of language set on CVMS.

Close

11. VCP Settings (Contd..)

Support

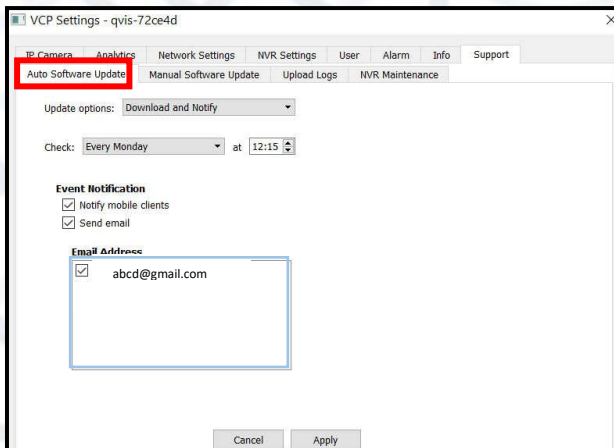
IMPORTANT: Make sure CCTV recording is switched off during update

This menu enables users to download and install latest update packages. Also, it enables user to contact Qvis labs for support on problems with the NVR.

Auto Software Update:

This enables automatic software update to NVR when updates are available.

NVR will check for updates as set by user. From drop down menu you can set day and time for check software updates.



You can send event notification to Mobile clients. Also send email if Email configurations are set.

Select suitable Update options from the **'Update options'** drop-down menu.

'Auto install' will download and install software when updates are available. Which is recommended by the Qvis.

'Download and Notify' will download the software and will send event notification to Mobile clients/Email asking permission for installation.

'Never' option will not download any software updates, which is not recommended.

Click on **'Apply'** to save the changes, **'Cancel'** to discard the changes.

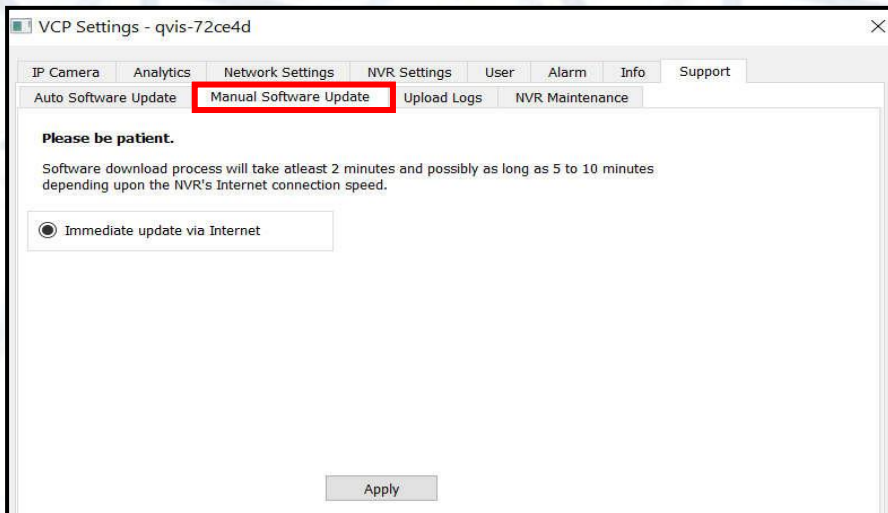
11. VCP Settings (Contd..)

Support (Continued)

Manual Software Update:

This option will enable user to update software manually via Internet.

First, choose the update method by selecting the appropriate radio button:



Immediate update via Internet:

To download and install the latest update package from the Internet, click here.

Click on '**Apply**' to continue.

This will cause a confirmation window to pop up. Click on '**OK**' to begin the update process. This can take from 2-10 minutes, or longer, depending on the network connection speed.

Note: In order to use Internet updating, the NVR's network connection must be operational with public domain Internet access.

When the process is complete, the NVR will restart. Please login and resume NVR use.

Note: The NVR software is constantly being enhanced with new functionality and features. Users are encouraged to perform the software update process at least as often as every 2-3 months, to benefit from these new developments.

11. VCP Settings (Contd..)

Support (Continued)

Upload Logs:

This menu enables user to upload information that can assist Qvis Labs in rectifying problems with the NVR. To upload information to Qvis Lab, select radio button **'Upload to Qvis Lab'**. Then click on **'Apply'** and a confirmation popup window will appear, click on **'OK'** to continue.

To download to USB drive, select **'Download to USB connected to NVR'** button, then select USB Drive from list and click on **'Apply'**. Popup window will appear asking confirmation. Click on **'OK'** to continue.

VCP Settings - qvis-72ce4d

IP Camera Analytics Network Settings NVR Settings User Alarm Info Support

Auto Software Update Manual Software Update **Upload Logs** NVR Maintenance

Select one of the Radio Buttons below and click on Apply Button to upload information to cloud or Download it to USB, that can assist Qvis Labs in rectifying problems with the NVR. The information uploaded does not include any confidential information such as video, user account settings and privacy settings.

Please be patient.

This process will take atleast 2 minutes and possibly as long as 5 to 10 minutes depending upon the NVR's Internet connection speed and size of the files.

☒ Upload to Qvis Labs
☐ Download to USB connected to NVR

Find USB Drives inserted in the NVR

Please Select a USB Drive From This List

Safely Unmount USB

Apply

- Click on **'Find USB Drives inserted in the NVR'** button if it is not listed in the USB list.
- After completing the downloading process, click on **'Safely Unmount USB'** before removing the USB from NVR.

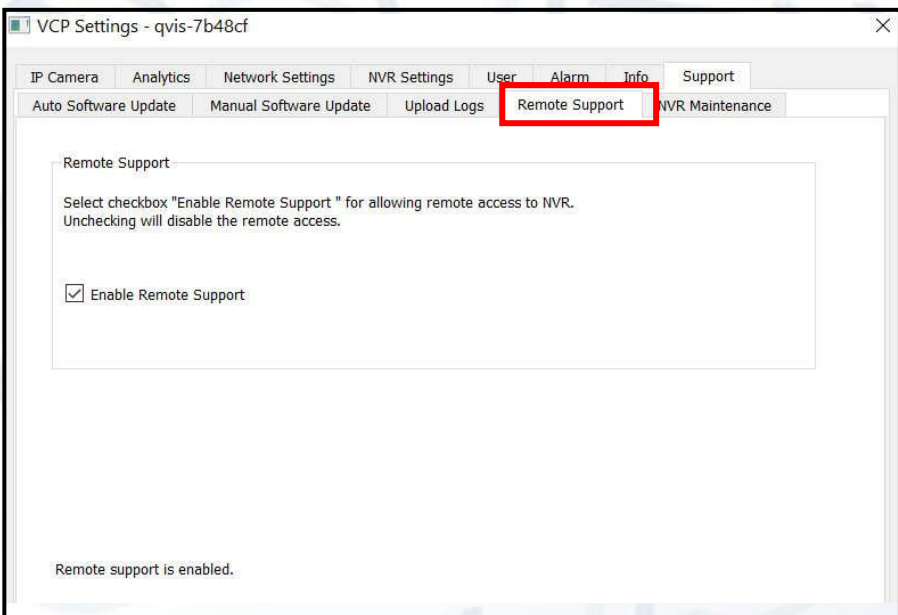
11. VCP Settings (Contd..)

Support (Continued)

Remote Support:

If you experience any issues or technical problems with your NVR that even this user guide fails to resolve, then our Qvis technical support team is always happy to help.

In The Commander NVR, there is check box. Just click on check box for 'Enable Remote Support' or 'Disable Remote Support'.

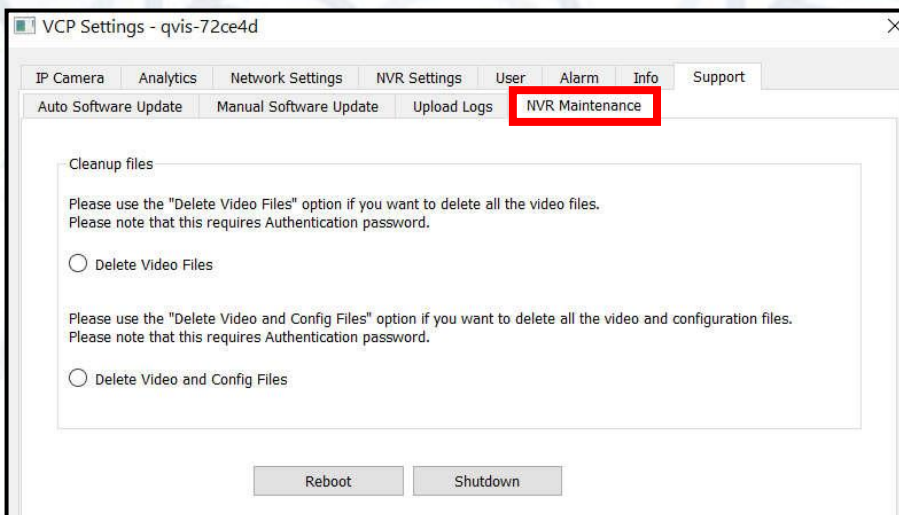


11. VCP Settings (Contd..)

Support (Continued)

NVR Maintenance:

This menu is not for general users. It is for technical team for NVR Maintenance. Please note that this requires Authentication password.

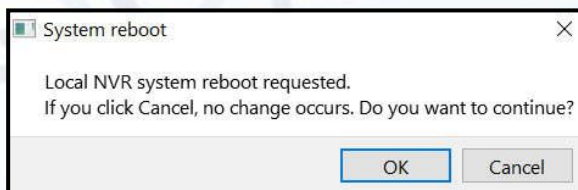


'Delete Video Files' will delete all the video files in the NVR.

'Delete Video and Config Files' deletes all video and configuration files. Please use this option carefully, as this option resets the NVR to the factory default.

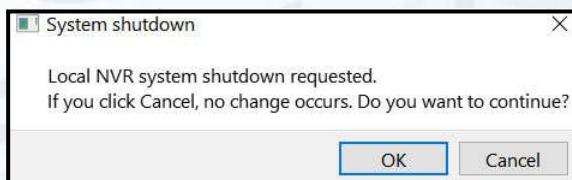
Reboot:

Click on **'OK'** to reboot the NVR.



Shutdown:

Click on **'OK'** to shutdown the NVR.



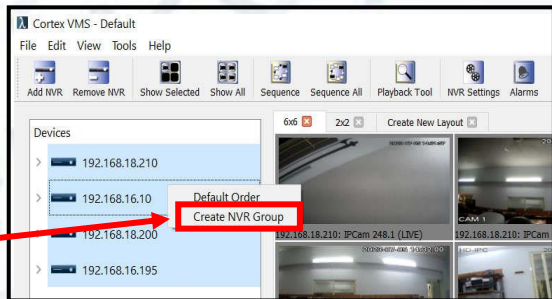
Grouping NVRs and Cameras

Features of Grouping:

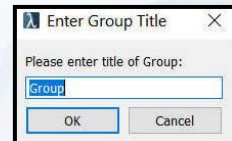
- NVRs and Cameras can be grouped together for easy access.
- User can **create** their own NVR Group and/or Camera Group from connected devices.
- Grouping of Cameras can be from different NVRs or from NVR Group.
- User can **add** NVRs or cameras to an existing group.
- User can **add** cameras to an existing Camera Group.
- Camera Group will be on the same level as NVR and not inside the NVR.
- User can **Rename** the Group.
- User can **Remove** the Group.
- User can **Swap / Move** the Group.
- User can **create session** with the Group.
- Use can **Searching** the devices.
- Search option is also provided in the Playback window to search particular devices including NVR Group / Camera Group.

Creating NVR Group:

- Select one or multiple NVRs from the device list using Ctrl+Mouse Left Key.
- Then right click. It will show popup as shown in the figure
- Click on 'Create NVR Group'

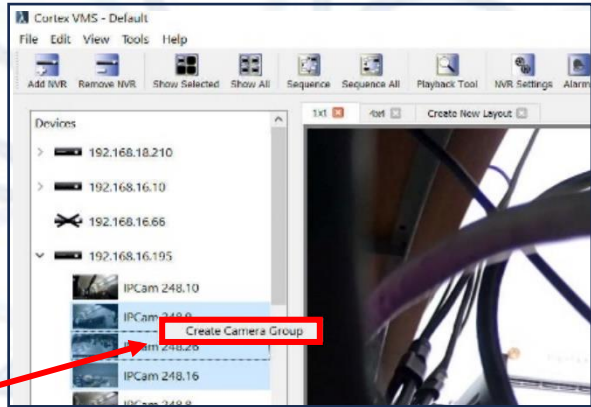


- It will open new 'Enter Group Title' window.
- Special characters like *!@#\$%^+- are not allowed. Space or underscore are allowed.
- Enter the group name and click on 'OK' button.
- NVR Groups are shown the icon as 'Multiple NVRs'

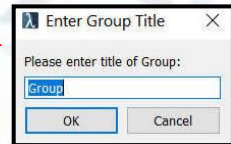


Creating Camera Group:

- Select one or multiple Cameras from the device list using Ctrl+Mouse Left Key.
- Then right click. It will show popup as shown in the figure.
- Click on 'Create Camera Group'.



- It will open new 'Enter Group Title' window.
- Special characters like *!@\$%^+- are not allowed. Space or underscore are allowed.
- Enter the group name and click on 'OK' button.
- Camera Groups are shown the icon as 'Camera group symbol'.

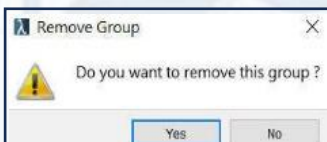
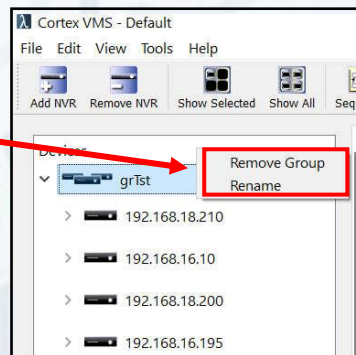


Adding NVRs / Cameras to the Group:

- Select the NVR(s) / Camera(s) from device list and drag

Remove / Rename the NVR Group:

- Right click on required NVR Group.
- It shows two options as shown in figure
- Click on 'Remove Group' will open new window 'Remove Group'
- Click on 'Yes' to remove as shown below.



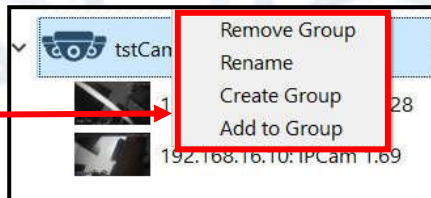
Grouping NVRs and Cameras (Contd..)

- Click on **'Rename'** will open 'Enter Group Title' window.
- Enter the group name and click on 'OK' button.

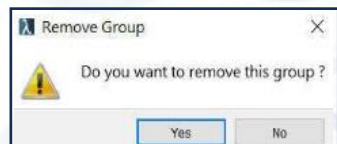


Remove / Rename / Create NVR Group / Add to NVR Group:

- Right click on required Camera Group.
- It shows four options as shown in figure



- Click on **'Remove Group'** will open new window 'Remove Group'
- Click on 'Yes' to remove.



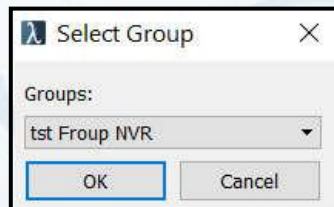
- Click on **'Rename'** will open 'Enter Group Title' window with present Camera group Name.
- Enter the group name and click on 'OK' button.



- Click on **'Create Group'** will open 'Enter Group Title' window.
- Enter the group name and click on 'OK' button. It is create under main tree and treated as NVR Group.



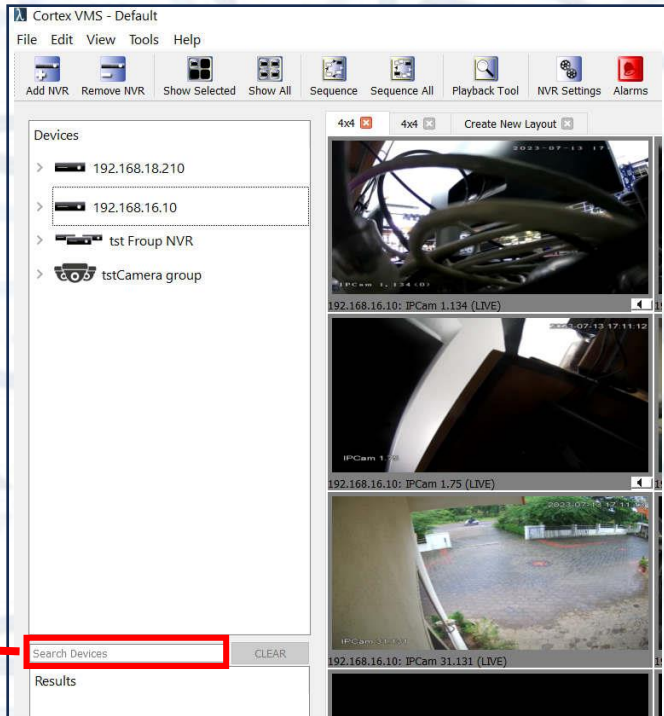
- Click on 'Add to Group' will open 'Select Group' window.
- Select the Group from drop down list
- Click on 'OK' to add.
- This option is visible after NVR Group exist.



Swap / Move the Group:

- Select the NVR(s) / Camera(s) from device list and drag to required Group.

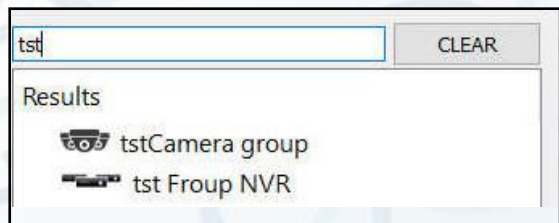
Search Function



Search Devices

- Search function can be used to search the NVRs or Cameras in the device list.

- Enter text name in 'Search Devices' column. It will list all such devices in 'Results' column as shown in figure. →



- 'CLEAR' button will clear all Results and text name entered in Search Devices.

Revision History

Revision History:

Month/year	Version	Changes made
July 2023	1.0	Initial Version

Notice

The NVR has been through rigorous testing and customer trials. Nevertheless, you may find a problem. Should you encounter a problem that your NVR Installer cannot remedy, or you have new feature ideas, email.

support@puretechsecurity.co.uk or support@qvislabs.com

If you encounter any issues, hardware or software, please provide as much information as possible about the setup and sequence of events that triggered the problem. We apologize in advance for any inconvenience and thank you for your response.

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