



# CathexisVision 2018.1 Operator's Manual

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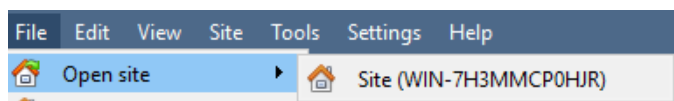
# 1 Introduction

This guide will detail the different operating procedures that the person in the control room may be expected to undertake, using the CathexisVision Client software. This does not include the setup's that take place, either in the setup tab, or via the menus. For this information please refer to the Setup Manual.<sup>1</sup>

For example, this manual will deal with questions such as “how do I zoom in a PTZ camera”, and “how do I review previously recorded footage?” The Setup Manual, on the other hand, will provide information on how one would add and setup a new camera, or add a motion detection algorithm to a camera.

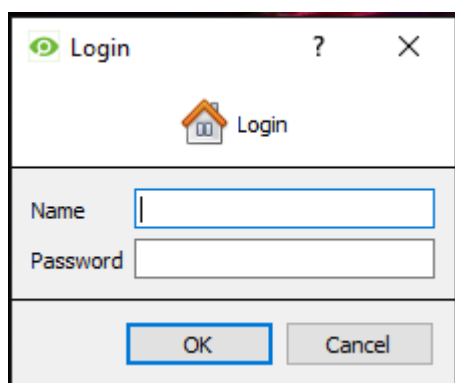
## Opening a Connection to a Site

The CathexisVision Client is not tied to any particular site, and as such, the user first has to open a connection to the site they wish to view.



Clicking on File → Open Site will open a list of all sites that have been added to the Viewing PC. Select the site you wish to view.

### • *Login*

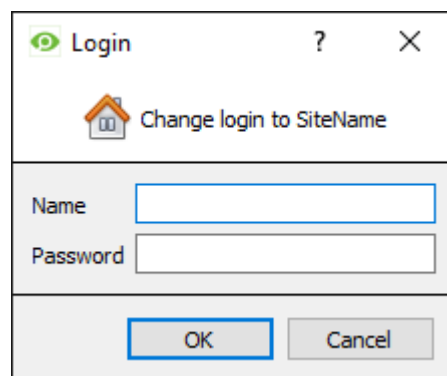
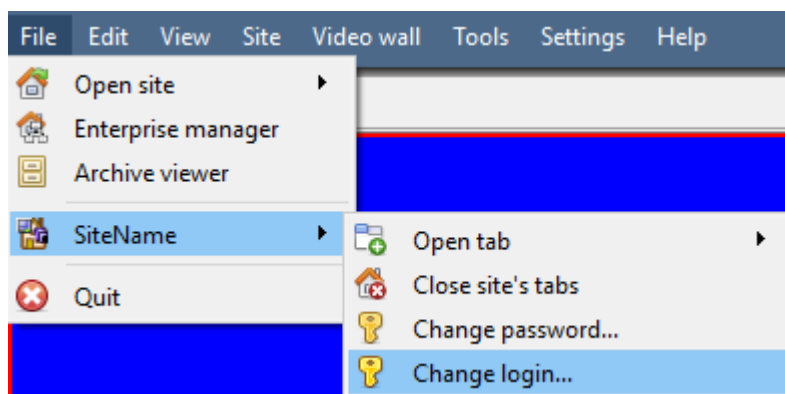


After selecting your site, you should be prompted to enter in your login credentials.

### • *Change Login*

To change login, follow Site → Change login... and enter your details.

<sup>1</sup> Note: While Cathexis has made every effort to ensure the accuracy of this document, there is no guarantee of accuracy, neither explicit, nor implied. Specifications are subject to change without notice.

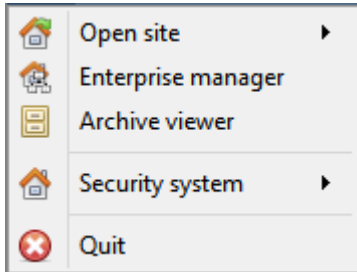


## 2 Menu Bar

File Edit View Site Video wall Tools Settings Help

This will detail the different options available to the user through the menu bar of the **CathexisVision** GUI.

### a. File Menu



#### Open Site

The menu attached to this tag will be a list of the Sites that have been added to this unit.

#### Enterprise Manager

The enterprise manager is where all your Site management occurs. You may add/edit/remove sites, as well as create site folders.

The assignation of Resource Sites occurs in the Enterprise Manager as well.

#### Archive Viewer

This will open up the Archive Tab. If you have any archived video it can be viewed here.

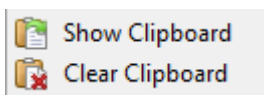
#### Open Site List

The names under Archive Viewer and above Quit represent the Sites that currently have connection tabs open in the GUI.

### b. Edit Menu

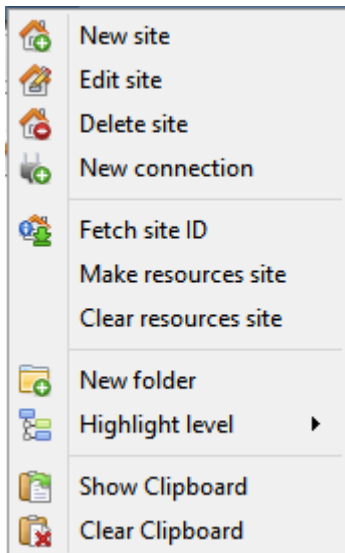
The edit menu, in general only displays the Show Clipboard, Clear Clipboard options. When you have the Enterprise Manager open you will see a range of different options.

#### General Edit Menu



The only information contained on the clipboard in question will be when you capture a screen grab from one of the cameras in the Cameras Tab.

#### Enterprise Manager Edit Menu



**New/Edit/Delete Site** will add a new Site; edit an existing Site, or delete an existing Site.

**New Connection** will add a unit connection to the selected Site.

**Fetch Site ID** gives a created site an ID, which is essential for a site to run. Perform this after creating the site, and adding unit connections to it.

**Make Resources Site** will make a site a Resources Site for this unit. This allows the unit to display a Video Wall, Alarm Management Gateway, and Maps Tab for this site.

**New Folder.** You may organise Sites in the Site List into folders.

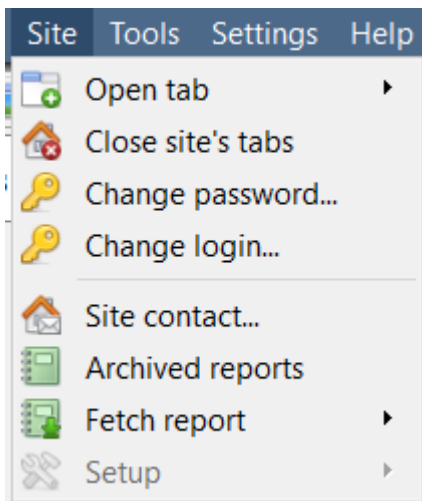
**Highlight Level** will highlight all Sites where X level is authorised.

### c. View Menu

The only option available here is the option to change the GUI view to Full-screen.

### d. Site Menu

The site menu will relate to the site whose tab you are currently viewing. To open a new Site you will need to follow **File→ Open Site→ Site Name**. You may get this same menu, from a list of all currently open sites under the **File Menu**.



**Open Tab** will open any available tabs (Cameras, Database, Map).

**Close Sites Tabs** will close all open tabs for this Site.

**Change Login** will change the user who is logged in.

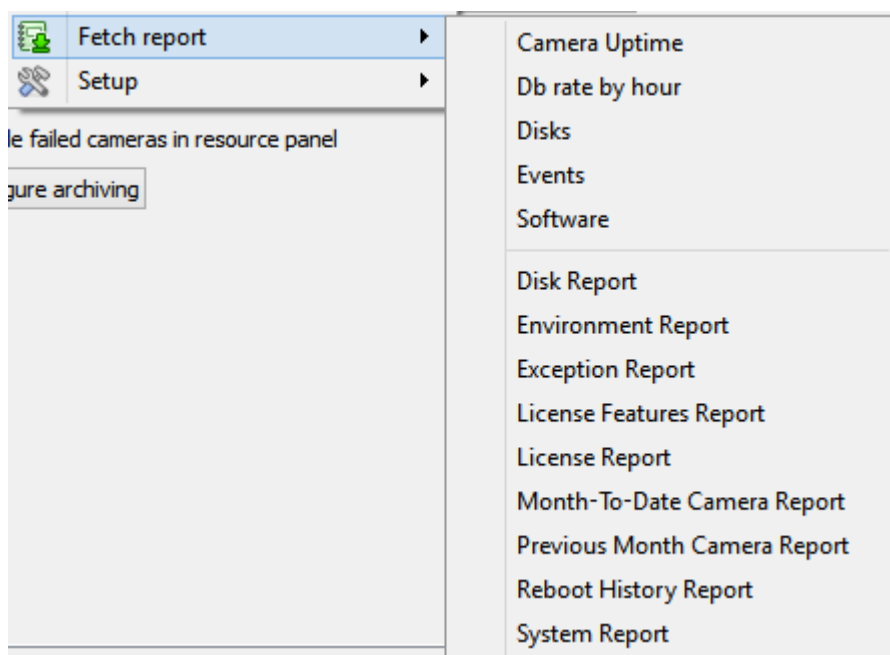
**Site contact** will show you the name and details of the Contact person for the site.

**Archived Reports** will display a list of previously archived reports.

**Fetch Report** will fetch a site report.

**Setup** is greyed out unless logged in as an administrator.

### Fetch Report

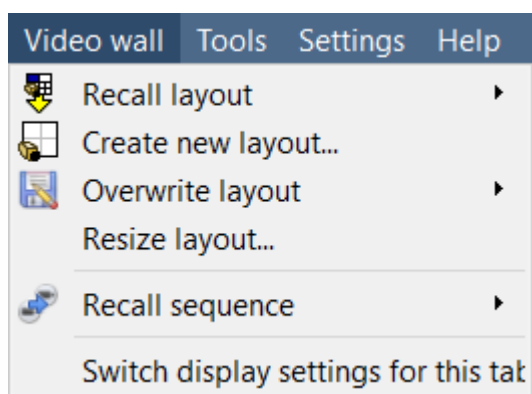


This menu allows you to pull a full report for the entire Site.

You may select to pull a **Template**, or pull up a quick report based on the list of variables below the border line.

**Note:** For individual unit reports, and a full description on the nature and details of reports see the **Setup Guide** → **Configure Servers** → **Setup Tab: Reports** section of the manual.

## e. Video Wall Menu




A **Layout** defines how the cameras appear on the screen, in the Cameras Tab. Including which cameras are shown, and how much space they take up on the screen.

A **Sequence** is a cycle of individual cameras that will run, on a timer, in a single viewing pane, in the Cameras Tab.

The **Switch Display Settings for this tab** will define the behaviour of the currently open Cameras Tab, when video information is sent to the Client Station with an alarm.

**Note:** this menu option will only be present when you are viewing a Cameras Tab.


### Recall a Layout

To bring up a list of existing Layouts, click on  **Recall** and select the layout name that you desire.

### Create new Layout

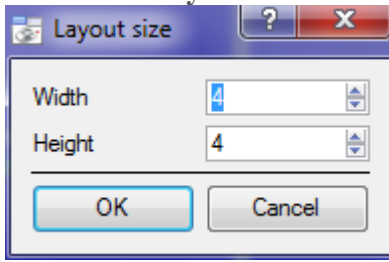
To create a layout, organise your cameras on the screen as you desire (double-left-click to expand; single-right-click to reduce). Then click on **Layouts** → **New**. Give the Layout a name, and click OK. (you can use Layouts created in the Cameras Tab in the Monitors Tab, and Vice Versa.)

### Overwrite Layout

Clicking on  **Overwrite**, and selecting one of the Layouts in the list, will overwrite that Layout with the current panel organisation.



### Resize Layout



Clicking on **Resize layout...** will give you the ability to change how many cameras are arranged on the screen. You may define how many cameras there are per row, and per column.

The maximum amount of cameras you may have per screen will be an 8\*8 matrix. This gives you a Layout with 64 cameras. (This would require an incredibly large screen to be practical though.)

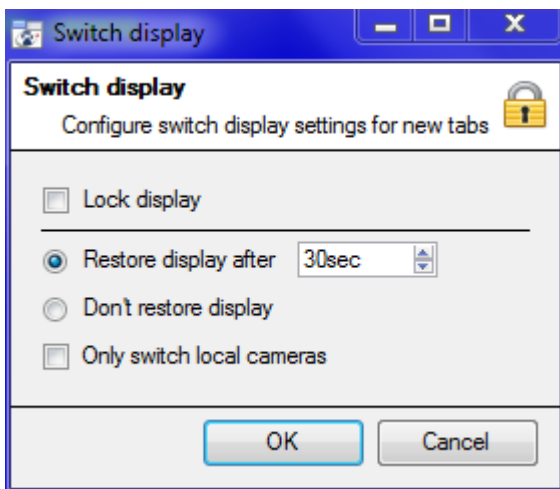
### Recall Sequence

A **Sequence** is a cycle of individual cameras that will run, on a timer, in a single viewing pane.

To recall an existing sequence, click on **Recall sequence** to bring up a list of all existing sequences. Click on the sequence you wish to run.

### Switch Display Settings For this Tab

**Note:** The Switch Display Settings that you set here are for the currently open tab only. To define the default Switch Display Settings for all tabs that are opened, navigate to **Settings Menu** → **Switch Display settings for new tabs...**



#### Lock Display

Will prevent the Cameras Tab from displaying any video feeds sent to it by the Event.

#### Restore display after



Will define how long after switching to the Event Cameras the Cameras Tab will return to the original display settings.

#### Don't restore display

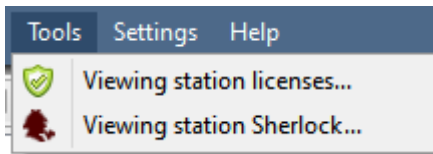
Will leave the Cameras Tab on the Event Cameras until an operator, or administrator, resets the display.

#### Only Switch Local Cameras

Will only switch to Event cameras originating from a local site.

**Note:** you may also either lock , or unlock , the currently opened Cameras Tab by clicking on the little lock located at the bottom of the resource panel in the camera tab (Only appears when mouse hovers over it.)

## f. Tools Menu

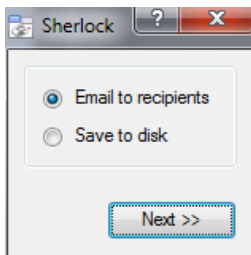


If you are on a client PC it will say **Viewing Station licenses**. If you are on the server it will say "**Local server licenses**". You may also retrieve the server licenses from site, or units, by entering the **Setup → Configure Servers→** and right clicking on the unit.

## Licenses

This will allow you to add a license to the Base Station that you are working on, not to any of the Recording Servers on the Site.

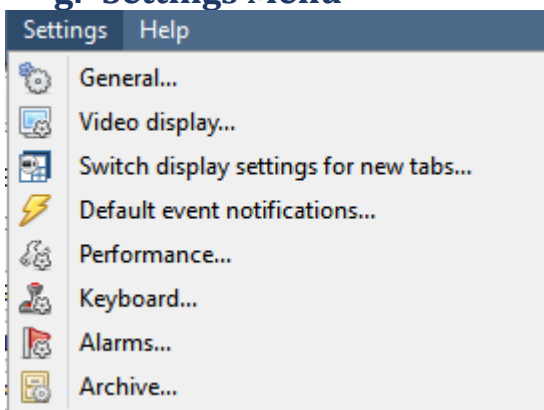
## Sherlocks



Sherlock files are a diagnostic tool, used by the Support Desk. The normal procedure is to email the Sherlock file to the Support Desk, with a description of the problem, but you may also save it to disk.

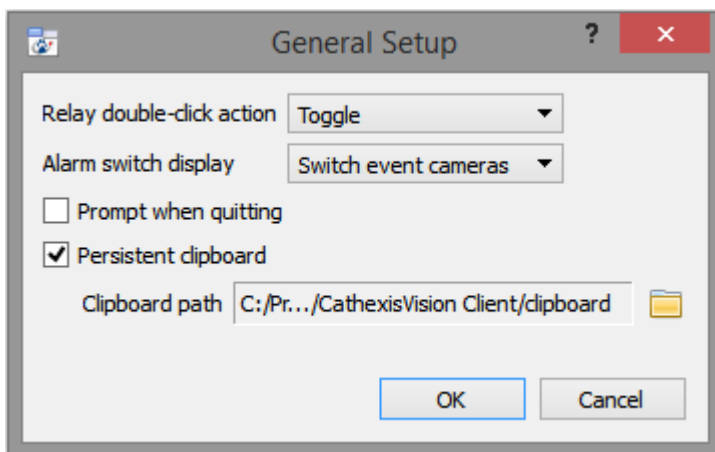
**Note:** clicking on *Email to Recipients*, will open up your Operating Systems default email client. *Save to Disk* will allow you to save the Sherlock files to any storage attached to your workstation.

## g. Settings Menu



This section deals with the General **Settings Menu**.

## General



**Relay Double Click Action** will set whether or not a relay in the Resources Panel, will be changed from its current state, or set to pulse.

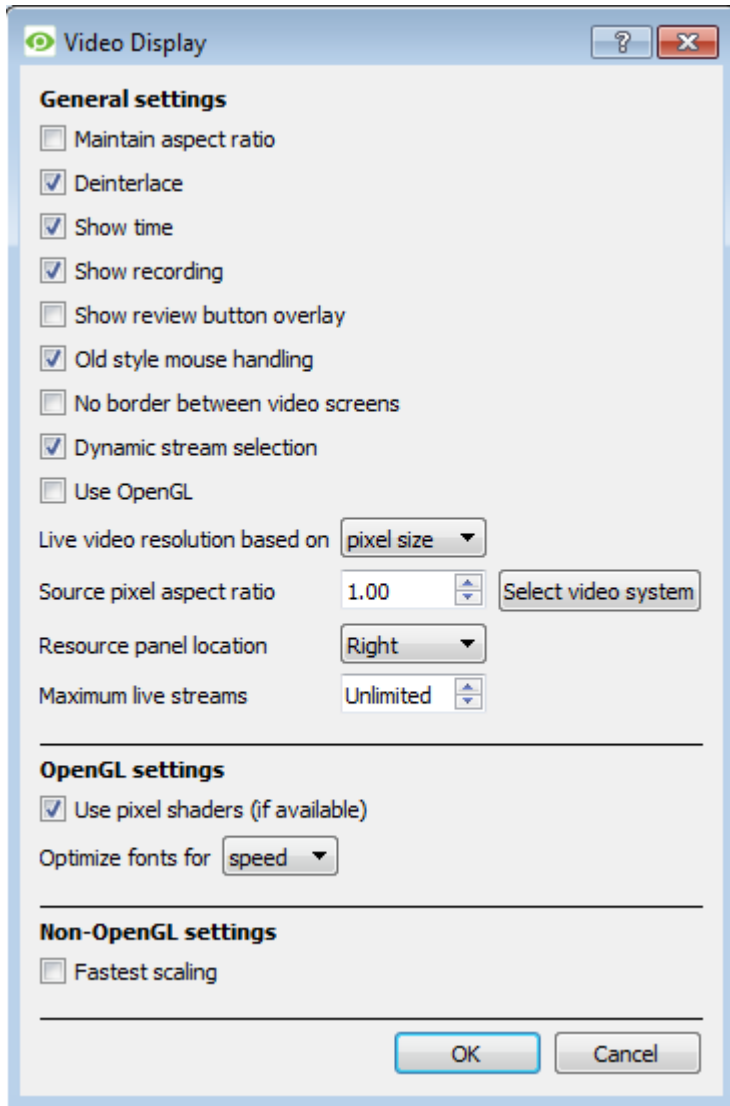
### **Alarm Switch Display**

This defines the GUI behaviour for when a user is handling an Event Alarm. It defines whether or not the display will switch to show the cameras attached to that Alarm.

**Prompt When Quitting** will prompt you every time you quit **CathexisVision** about whether or not you want the current tabs to be reopened when you next start the program.

**Persistent clipboard** will persist after closing **CathexisVision**.

## Video Display



**OpenGL:** A Graphics library...a cross-platform API for writing applications for 2D and 3D graphics. The graphics card utilises the OpenGL, and thus the load will be passed on to the GPU, freeing the load on the CPU.

**Pixel shaders:** Similar to OpenGL.

**Fastest scaling:** When the CPU has to be utilised to handle the load, this option helps optimise the instructions for the CPU.

**Maintain aspect ratio:** The ratio between the width and the length will be kept constant as the video size changes.

**Deinterlacing:** A process of converting interlaced video (like analogue) to a non-interlaced form.

**Show time:** Shows the time on the video.

**Show recording:** indicates when, with a red dot, when the video feed in a panel is currently being recorded.

**Show review button overlay:** will overlay buttons for review, on mouse-over, on a camera panel when it's video feed is being reviewed.

**Old style mouse handling:** Use pre-2017.2 mouse handling.

**No border between video screens:** Check to remove borders between video screens.

**Use OpenGL:** Check to use. See below for info.

**Dynamic stream selection** is enabled by default. This will dynamically select the stream based on the display resolution.

**Live video resolution:** Based on either panel size or pixel size.

**Source pixel aspect ratio:** Will conform the video source's correct aspect ratio, making the object look more real-world. For example, when a video of a perfect circle appears oval on the screen, it is an indication that the aspect ratio might be different from the original source.

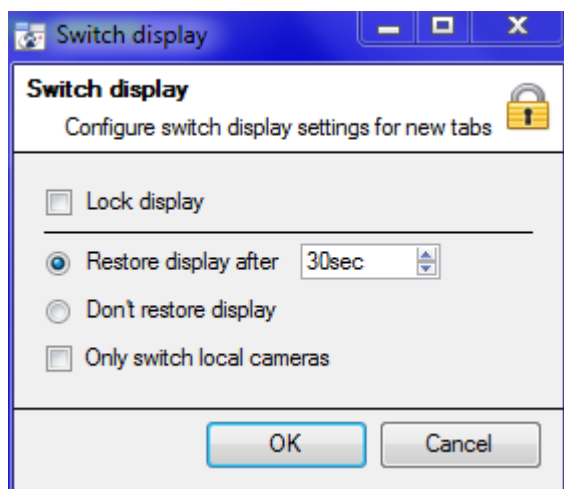
**Resource Panel Location:** Resource Panel can be configured for left or right of video screen.

**Maximum Live Streams.** An option to limit the number of live video streams in the CathexisVision camera tab. The limit is a global limit and applies across all screens. (On a NVR/DVR this setting is only accessible to an administrator.)

## Switch Display Settings for New Tabs

This will define how your cameras tab responds when there is an event on the site that sends video and information to the Cameras Tab of the viewing client.

**Note:** The settings here will apply to any new Cameras Tabs, opened after you change the settings.



#### Lock Display

Will prevent the Cameras Tab from displaying any video feeds sent to it by the Event.

#### Restore display after



Will define how long after switching to the Event Cameras the Cameras Tab will return to the original display settings.

#### Don't restore display

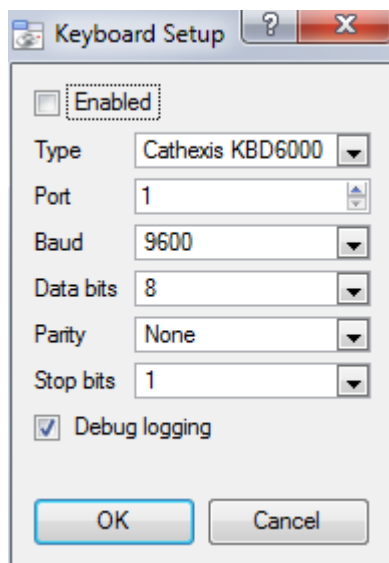
Will leave the Cameras Tab on the Event Cameras until an operator, or administrator, resets the display.

#### Only Switch Local Cameras

Will only switch to Event cameras originating from a local site.

**Note:** you may also lock , or unlock , the currently opened Cameras Tab by clicking on the little lock located at the end of the Timeline on the Review Controls.

## Keyboard



This option is for if you are adding a keyboard to a Base Station. If you are adding a Keyboard to a Recording Server you will have to do so via **Site—>Open Tab—>Setup—>Configure Servers—>Keyboard**.

Enter in the details relevant to your keyboard.

## Alarms

Enter an IP address for a technical alarm server, or gateway, for the viewing software to send alarms to.

## h. Help

|   |   |
|---|---|
| <b>Archive Guide</b>                              | Will launch a quick guide on archiving.   |
| <b>Local server stats"/"Viewing station stats</b> | Are the statistics for the local server if it's an NVR, or for the Viewing Station. Depending on which unit you are on. |

|                            |  |
|----------------------------|--|
| <b>Enable Support User</b> | <b>Note:</b> this will only appear on NVR units.<br>This will enable/disable a special user added for support purposes, when you install <b>CathexisVision</b> NVR |
| <b>About</b>               | Will inform you about the License, the Release version, and the email address for Support.   |

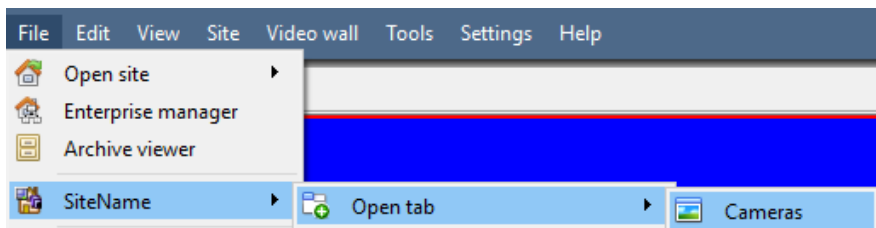
### 3 Cameras Tab

This section will deal with the Cameras Tab, which is the tab through which the operator will view live footage, as well as review recorded footage.

#### Open the Cameras Tab

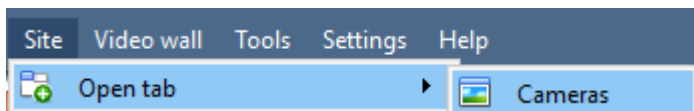
After opening a connection to the desired site, as described above the operator must open the Camera Tab. There are three ways to do this:

##### Option 1



**File → SiteName → Open tab → Cameras Tab**

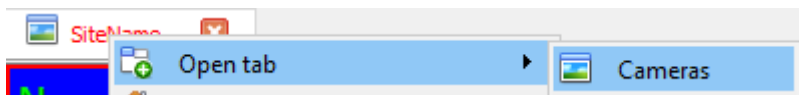
##### Option 2



**Site → Open tab → Cameras Tab**

##### Option 3

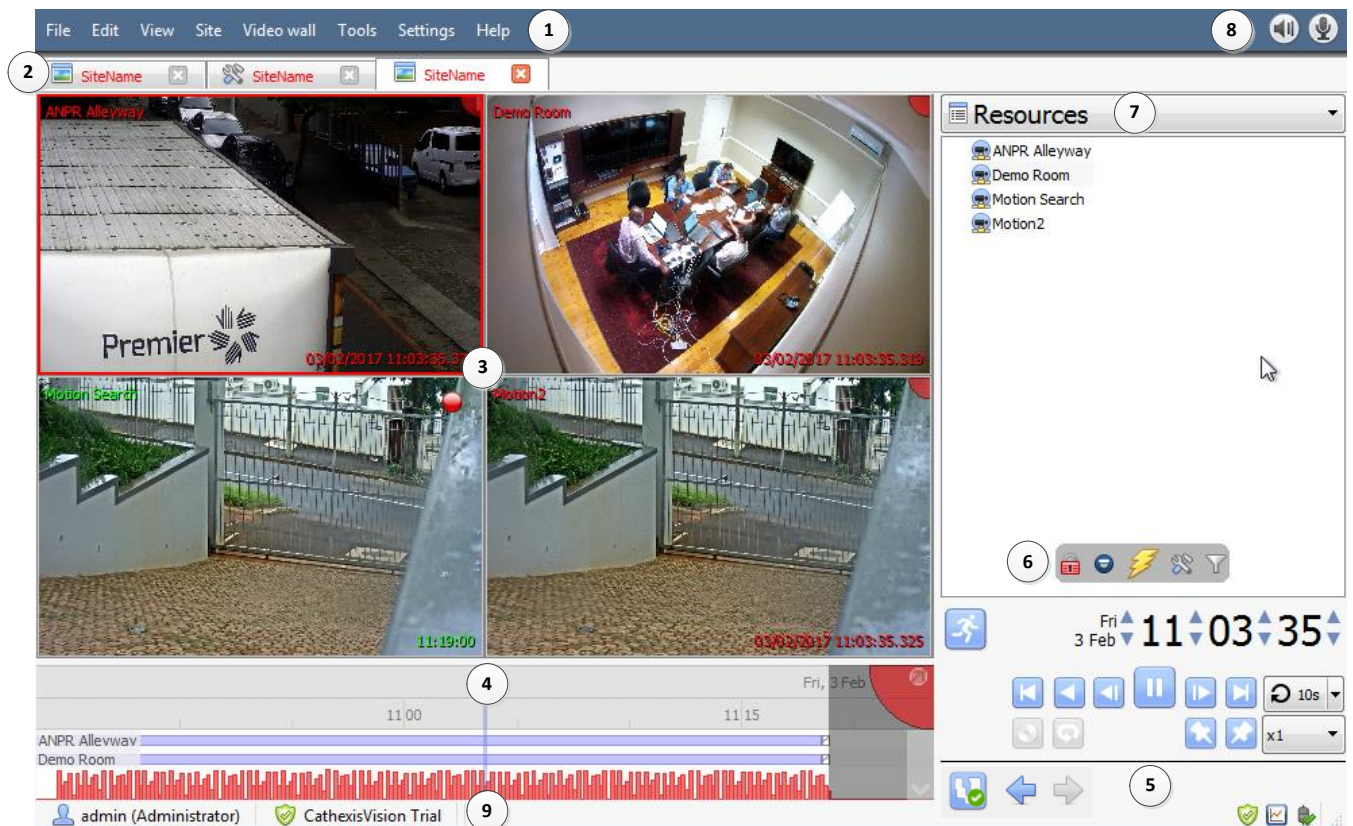
Site must already be open for this option.



**Right-click on site tab → Open tab → Cameras Tab**

## a. Main Screen Areas

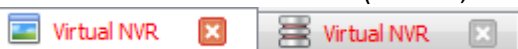
The following presents a brief introduction to the various features of the Cameras Tab, which will each be dealt with in deeper detail, further on in the document.



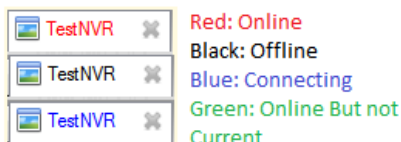
You may configure areas 5, 6 and 7 to appear on the left or the right-and side of the screen. Follow Settings Menu → Video Display → Resource Panel Location.

1 The **menu bar** provides menu options for the current desktop, and shows your access rights. These menu options change on a tab-by-tab basis.

2 These are the various tabs (camera, database, and setup) for one or multiple sites.



The colour of the text in the tab indicates its connection status:



Each Site can be custom-configured to automatically load certain tabs, when a connection is made to the Site (this is configured from **File → Enterprise Manager → Right Click Site → Properties**). To close a tab click on







3 The **cameras panel** contains the individual panels on in which cameras are viewed. Selected cameras are outlined in red; unselected cameras have no outline.



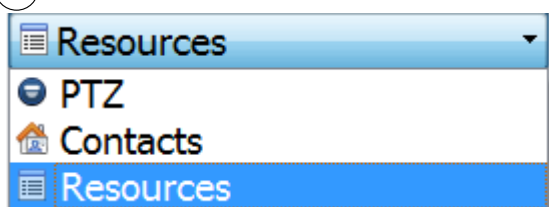
4 The **timeline** will show the current time of the selected panel/s. The white area indicates time that has passed; the grey area indicates time approaching; the point between them indicates the present time.

5 The **review controls panel** hold the tools used in reviewing, archiving, recorded footage, and Activity Trails; for one or multiple cameras.

6 The resource panels mouse over options include a number of options:

|   |  |
|---|--|
|  | Lock display. Some CathexisVision events will be setup to switch the camera panel to view cameras related to the event. Clicking on this lock will enable/disable this feature. An unlocked display (  ) will switch; a locked display won't. |
|  | PTZ Controls. This will pull up a basic PTZ control menu. For a, potentially, more detailed menu see the note on Number 7 (below).   |
|  | Event Notifications.   |
|  | Configure Resource Panel.  |
|  | Resource Panel Filter.   |

7



The **panel selector** is a dropdown bar for selecting from a variety of panels:

- PTZ.
- Resources.
- Contacts.

**Note:** You may configure areas 5, 6 and 7 to appear on the left or the right hand side of the screen. Follow Settings Menu → Video Display → Resource Panel Location

8



The **Local Resources** bar (top right) shows the status of local hardware resources:



Local default audio input (e.g. your microphone)



Local default audio output (e.g. your speakers)






Local monitor







When active, these resources display **bright green**, and when inactive they are **grey**. If you run your cursor over an active resource, a “tooltip” will provide information on the activity. For example, mouse-over a green monitor to see what camera is displaying to that monitor. If you have many local resources, they will be arranged in a scrolling area, with left and right scroll arrows.

9

The status bar, at the bottom on the interface provides relevant information:

| Notification Icon  | Notification Description   |
|--|--|
|  dvs (Administrator)    | The <b>username</b> , and their access level.  |
|  CathexisVision Premium | This represents the main <b>license</b> of the unit.   |
| Supplied to Documentation by Cathexis Internal   | The distributor of the license.  |
|                         | The <b>cameras notification</b> will only appear to alert you when cameras are down. Clicking on it will allow you to see which cameras these are. |





|  |  |
|--|--|
| <br> | <p>The <b>licensing notification</b> will be permanently present, but will change colour depending on licencing status.</p> <p>Green indicates a healthy licensing status.</p> <p>Orange indicates that there are demo licenses that are due to expire.</p> <p>Red means either missing or expired licenses.</p> |
|   | <p>The <b>performance monitor notification</b> is permanently present, and will allow you to view performance statistics. See the Appendix of this document for a full explanation.</p>  |
|   | <p>The <b>connection status</b> icon is permanently present, and indicates the status of the connection to the current site.</p>   |
|   | <p><b>Video Analytics notification.</b> Warns the user when an error has occurred which involves one or more of the video feeds on a site.</p>   |
|   | <p><b>Failover notification</b> will provide information about the status of existing failover servers.</p>  |

## b. Camera Panels and Context Menu

This section will cover the different overlays that are visible on each panel, and the options available in the context menu.

### Overlays

|   |  |
|---|--|
| <p><b>Live</b></p>  <p><b>Review</b></p> | <p><b>Green</b> text shows that the stream you are viewing is live.</p> <p>The text in the top left (Highway 1 here) is the camera's given <b>name</b>.</p> <p>The <b>timestamp</b> is seen on the bottom right.</p> <p>A  present in the top right hand corner of the panel indicated that the camera is currently recording to one of the databases.</p> |
|---|--|



Red text indicates that the video in this panel is being reviewed, from previously recorded footage.


The text in the top left (Highway 1 here) is the camera's given **name**.


The **date**, and, **timestamp** is seen on the bottom right.


### Video feed Options Panel

When you hover the mouse over a camera's panel you will see the little black- arrow icon appear on the left-middle of the panel. Clicking on this icon will expand the menu, as you see below:

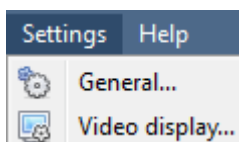


Click on  to allow you to change which algorithm information is overlaid (if there are algorithms set up).

Clicking on  will allow you to select between available video feeds for the selected camera. (This is very useful when you need to view a camera over a slower link, and the camera provides a lower format/resolution video feed.)

**Note:** When you are reviewing video you will also see the database icon  in the list. This will allow you to select which database you want to review video from. This is useful if this camera records to multiple databases.

### • Review Button Overlay



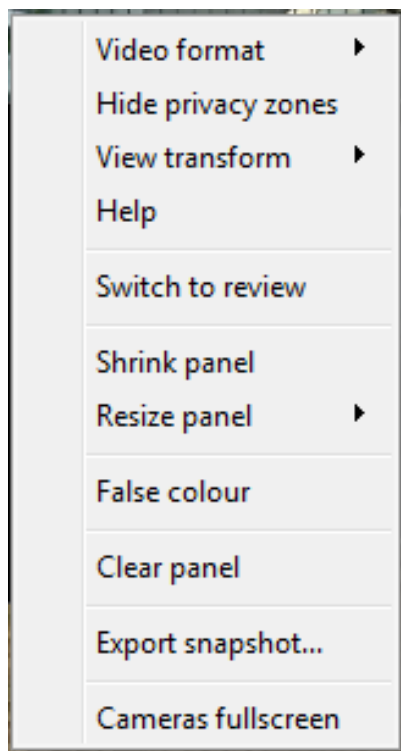
Under Settings → Video Display there is an option that reads ☒ Show review button overlay .

When checked, you will the following overlay when mouse-over a camera panel where the video is currently being reviewed:



### Live Context Menu

To see the context menu, middle-click the mouse on the camera panel of your choice.



**Video format:** Allows the user to select which of the cameras video streams (which format/resolution) they wish to view.

**Hide/show privacy zones:** Will hide/show privacy zones on camera image depending on access rights.

**View transform:** Allows you to transform images for cameras with special lenses. (E.g. 360 degree cameras.)

**Overlays:** Allows you to view the different analytics algorithm's that have been applied to this camera's feed, live in the Cameras Tab.

**Help:** Pops-up a help window on Digital Zoom, and PTZ Control within this panel.

**Switch to review:** Allows you to switch back and forth between live and review footage.

**Export Snapshot...:** Opens a window which lets you print snapshot, save to folder, copy to system clipboard, or copy to CathexisVision clipboard. You may also choose to include the camera name and time of snapshot in the overlays.

**Shrink panel:** Reduces the size of the camera panel.

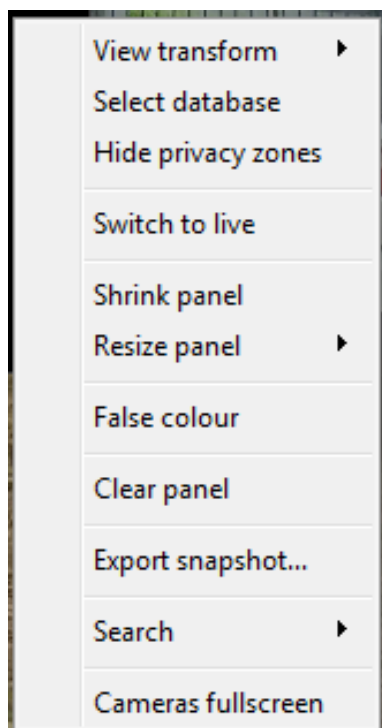
**Resize panel:** Gives you more resizing options.

**False colour:** Changes the colour of the image to false colour.

**Clear panel:** Removes the camera/s from the currently selected panel/s.

**Cameras fullscreen:** Fills the entire screen with the Cameras Panel; creating a Video Wall. The same procedure will exit fullscreen mode.

### Middle-Click on a Camera in Review



**View transform:** Allows you to transform images for cameras with special lenses. (E.g. 360 degree cameras.)

**Select database:** If you have multiple databases set up, you can set a camera to record to a certain database using this option.

**Hide/show privacy zones:** Will hide/show privacy zones on camera image depending on access rights.

**Switch to review/live:** Allows you to switch back and forth between live and review footage.

**Export snapshot...:** Opens a window which lets you print snapshot, save to folder, copy to system clipboard, or copy to CathexisVision clipboard. You may also choose to include the camera name and time of snapshot in the overlays.

**Shrink panel:** Reduces the size of the camera panel.

**Resize panel:** Gives you more resizing options.

**False colour:** Changes the colour of the image to false colour.

**Clear panel:** Removes the camera/s from the currently selected panel/s.

**Export Snapshot...:** Opens a window which lets you print snapshot, save to folder, copy to system clipboard, or copy to CathexisVision clipboard. You may also choose to include the camera name and time of snapshot in the overlays.

**Search:** Use snap-search feature to search the database for snapshots similar to the current image.

**Cameras fullscreen:** Fills the entire screen with the Cameras Panel; creating a Video Wall. The same procedure will exit fullscreen mode.

## Select, or Move, Cameras

1. To **select a single camera** left-click on it.
2. To **select multiple cameras**, hold down CTRL while left-clicking on the cameras you wish to select
3. To **move a camera**, from one panel to another, right-click-and-hold the camera and drag it to the new panel.
4. CTRL-A will **select all cameras** in the Cameras Tab.

## Digital Zoom

You can zoom in digitally on cameras that have no physical PTZ capability. This is done by selecting the specific camera in the Cameras Panel and doing the following:

- ***Zoom in/out***

Scroll the mouse wheel.

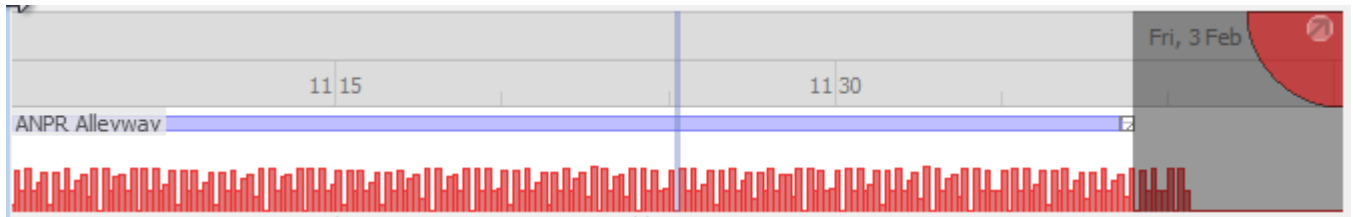
- ***Zoom to area***

While holding the shift key, drag-select an area using the left mouse button

- ***Pan***

Pan the image using the left mouse-button. This is done by holding down the left mouse button, while moving the mouse.

## c. Timeline



The timeline at the bottom of the GUI indicates where in time the currently selected cameras are.

**Note:** while you may review legacy video in CathexisVision 2015 and onwards (recordings made on pre 2015 systems) the timeline will remain blank.

### Basic Description

The following will describe the basic function of the timeline. Continue in this section for more details.

|                         |          |  |
|-------------------------|----------|--|
| <b>Recordings</b>       |          | This indicates there are recordings for this camera. A white area indicates no recordings.   |
|                         | Actions: | <ul style="list-style-type: none"> <li>a. Click anywhere to go to a time in recording, or drag the timeline to the desired location.</li> <li>b. Hover mouse over recording area to display thumbnail preview image of recording.</li> </ul> |
| <b>Motion Analytics</b> |          | This indicates that this camera has a <b>motion database</b> , and that there has been activity in the area.   |
|                         | Actions: | <ul style="list-style-type: none"> <li>a. Click anywhere to go to a time in recording, or drag the timeline to the desired location</li> </ul>   |
| <b>Popout</b>           |          | Click this to pop the timeline out into a detached mode. Click the arrow again to dock it.   |

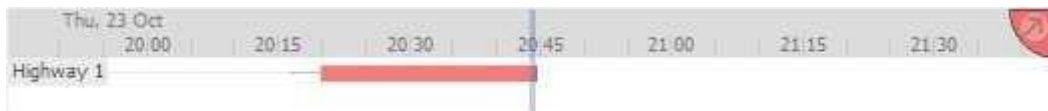
### Timeline View Types

- **Live View Timeline**

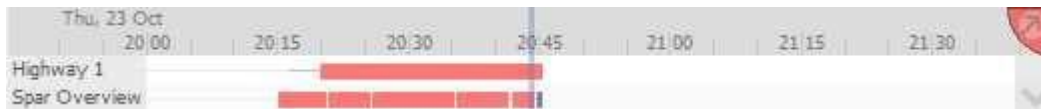


The live view timeline simply shows the current time at the intersection between white and grey.

- **Single, and Multiple, Camera Review Timeline**



When reviewing a camera's recorded video, you will see the timeline change to show red blocks. These blocks on the timeline represent recorded events.

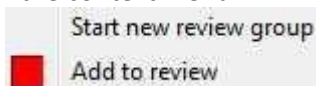


If you have selected multiple cameras to review they will appear stacked on the timeline.

- ***Synchronized/Independent Review***

By default, all reviews are synchronized, when you have selected multiple cameras for review. It is possible to review cameras independently.

When already reviewing a camera, if you middle click on a camera's panel you will see the following options in the context menu.



**Start new review group** will add this camera to a separate group of review cameras, which will be asynchronous to the original review group. The new review group is indicated by the tag on the top-right of the video. Each review group will get its own colour.

**Add to review** will add this camera to the already existing review group. As you add review groups the number of options here will increase as a result.

## *Timeline Actions*

- ***Zoom in on Timeline***

There are two ways to zoom in on a section of the timeline.

1. By mousing over the timeline (during review) and rolling the mouse-wheel forwards. To zoom out roll it backwards.
2. But shift-selecting a section of the time line.



This is done by holding down the SHIFT key, while click-dragging your selection with the left mouse button. Your selection will look like the image to the left.

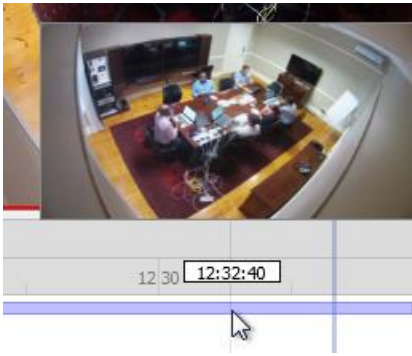
To **zoom in** on this selection click on the  icon.

- ***Move the Timeline with the Mouse***

You may move backwards and forwards in time, by left-click dragging the timeline in the direction that you want to travel.

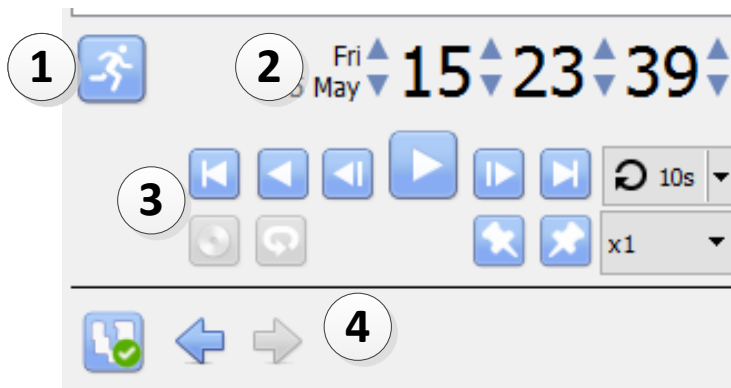
- ***Hover over Timeline***









If a camera has recordings, you may hover over the timeline to display a thumbnail preview image of the recording at the selected time.

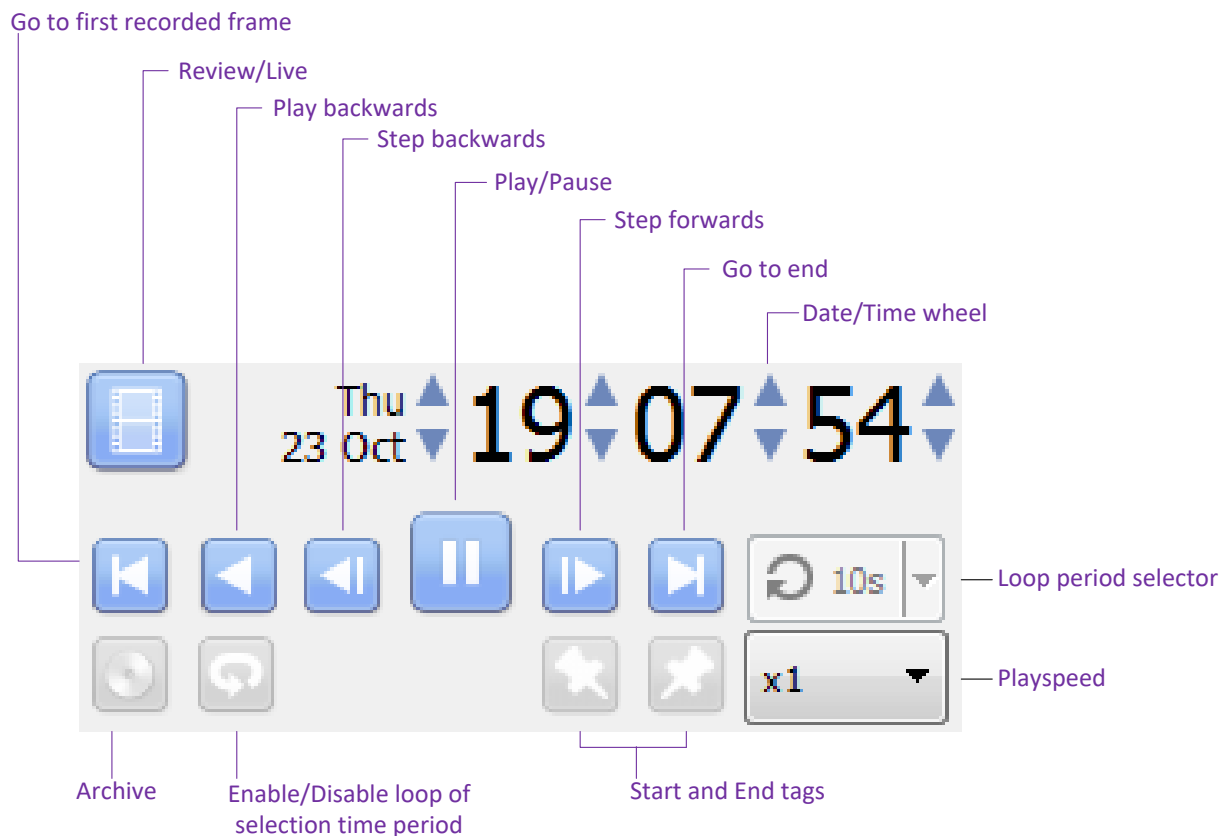
#### d. Review Control Panel



|   |   |
|---|---|
| 1 | <b>Toggle Live/Review mode.</b><br><b>Note:</b> When you click the  icon, to enable review, it will change to an  icon, and vice versa.   |
| 2 | <b>Go to time.</b>  |
| 3 | <b>Review Controls</b>  |
| 4 | <div>  <b>Toggle Activity Trails on/off.</b> See section f. for instructions.         </div> <div>  <b>Look backward/forward.</b> See section f. for instructions.         </div> |

When a camera is put into review mode, and another camera is selected for the same panel, that camera will retain the review time of the original camera.

## Review Controls





### Playback Speed

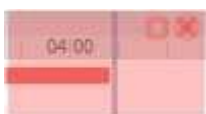
Select a playspeed up to x16 from the Playspeed options. Then click either Play to play forwards at the selected playspeed, or Play Backwards to rewind at the selected playspeed.

#### • *Selecting a Period for Review*

After finding something of interest, you may wish to loop through the recorded footage around that event. (This can also be useful when selecting footage for archive). You may move the timeline around by left-click-dragging it.

There are two ways to select the period which you want to review.

1. **Tagging:** Click on the  icon to tag the start of your selection. Then navigate to the end of your desired period, and click on the  icon, to tag the end of your selection.
2. **Shift-selection:** This is done by holding down the SHIFT key, while click-dragging your selection with the left mouse button. Your selection will look like the image below.



The selected areas will appear as you see to the left. By default it will be set to loop. This can be seen when looking at the loop icon.



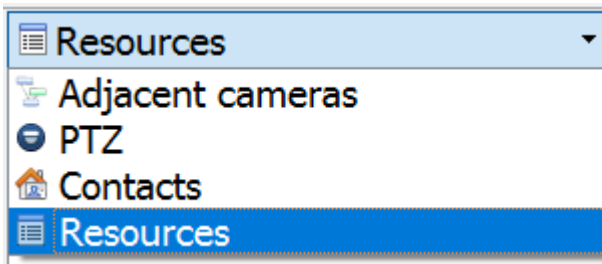
Means that it will loop, to the beginning of the selection, as it gets to the end of the selection.



Means that the video will continue to play past the end of the selection.



### e. Panel Selector

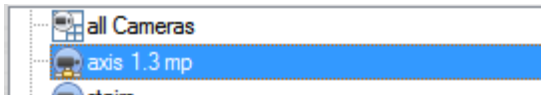


Clicking on the drop down menu of the Panel Selector will show you four options: **Adjacent Cameras, PTZ Controls, Contacts,** and **Resources**. The Contacts are special site contacts, setup by your administrator. The Resources are the site resources, such as Cameras, Relays etc.

#### Select Cameras from the Resources Panel

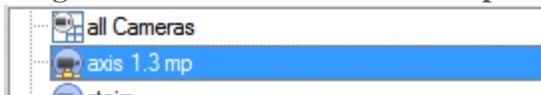
The resources panel will be the one from which you select which cameras you want to view in the Cameras Panel. There are a few ways to do this.

##### Double-click a camera in the Resources panel



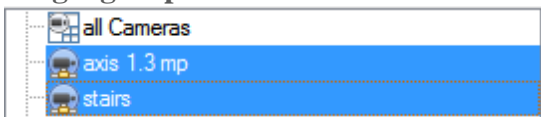
Double-click a camera in the Resources panel to load it Live into the camera panel that currently has focus (is selected).

##### Drag a camera from the Resources panel



Left Click on a camera, holding down the mouse button, and Drag a camera from the Resources panel (first drag the camera horizontally left, and then to the panel that you want to view it in)

##### Drag a group of cameras from the Resources panel



From release 5042c2, January 2011, you can select a group of cameras from the resource pane and drag them onto the camera display (for camera tab or multisite tab). This is a quick and convenient way to populate a screen with cameras.

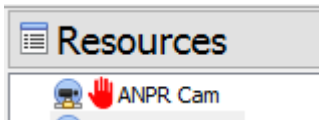
This is achieved by selecting cameras while holding down the CTRL button on your keyboard, then Dragging them across.

#### Reset Camera Tamper

This is achieved by selecting cameras while holding down the CTRL button on your keyboard, then Dragging them across.

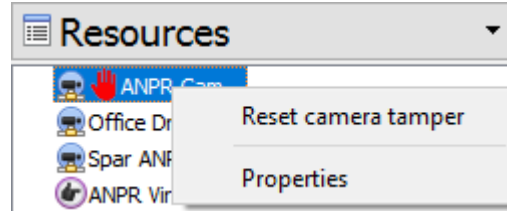
Depending on your access rights, you may be able to reset a camera tamper if that is being tampered with. In some cases, a camera will remain in a tamper state until the camera has been restored to its normal state; this

may include the physical removal of the tamper such as refocusing the camera lens or correcting the camera's position. However, when necessary, you may need to clear the tamper state from within the software.



In the **Resources Panel**, a camera tamper icon (red hand) will appear in front of camera that has been/is being tampered.

Right-click the tampered camera and select **Reset camera tamper**.



## f. Mouse-Over Options

When you hover your mouse over the Resources Panel you will see the following option set appear:




- **Lock Display**




Lock display. Some CathexisVision events will be setup to switch the camera panel to view cameras related to the event. Clicking on this lock will enable/disable this feature. An unlocked display (🔓) will switch; a locked display won't.


- **PTZ Controls**



To bring up the PTZ panel, click on the  icon in the Mouse Hover Options, in the Resources Panel.

(**Note**: Selecting the PTZ option from the Resource Panel dropdown menu will give you more PTZ options.)

With a Pan-Tilt-Zoom (PTZ) camera an operator can manipulate the camera's direction, zoom, focal distance and amount of light. A PTZ camera is indicated in the Resources panel with an  icon. He/she can also control pre-configured camera views called "Presets".

|   |   |
|---|---|
|  | <p>This panel provides controls for camera presets, and a software joystick for interactive control of the camera. The Presets controls enable you to set presets and go to presets.</p> <p>The curved grey buttons surrounding the joystick enable zooming in and out, focusing closer or farther away, and iris control – lightening or darkening the camera image. The Manual button is for manual override of the dome (to override automated patterns, local tours, etc.). The Auto button relinquishes manual control, to let the system regain its automated configuration.</p> <p>Note the green text on one these buttons. This indicates which mode currently applies. Manual or Auto. In the example at left, the system can function automatically. The screen may change unexpectedly as it runs patterns, tours, etc.</p> |
|---|---|

## PTZ Panel

|   |  |
|---|--|
| <p><b>To go to a preset from the PTZ panel</b></p> <p>Select the preset from the dropdown, and then click GO</p> <p>&gt; The camera view will change to the preset.</p>   | <p><b>To set a preset from the PTZ panel</b></p> <ol style="list-style-type: none"> <li>1. Select the preset from the dropdown,</li> <li>2. Use the joystick controls to establish the camera view, zoom, focus and light (iris).</li> <li>3. Click SET.</li> <li>4. Go to this preset to check it.</li> </ol> |
| <p><b>To relinquish manual control of the dome / PTZ camera from the PTZ panel</b></p> <p>Click Auto. &gt; If your system runs remote tours automatically, or switches display based on events, these automated responses will take over.</p> | <p><b>Pause a PTZ Tour</b></p> <p>PTZ tours can be paused/restarted, per camera. This is achieved by right-clicking on the camera in the resource panel and selecting the "Pause/restart PTZ tours" option.</p>  |
| <p><b>To lighten/darken the live camera view from the PTZ panel</b></p> <p>Watch the live camera as you press the iris+, or iris – button. You will see the image lighten or darken</p>   | <p><b>To gain manual control of the dome / PTZ camera from the PTZ panel</b></p> <p>(This applies if you system runs remote tours automatically, or switches display based on events)</p> <p>Either click <b>manual</b>, or simply move the software joystick</p>  |

## Individual Camera Panel Zoom Options

**Note:** If the camera supports any of the above then you can switch between digital and PTZ control using the icons on the bottom-left of the camera panel.



|   |  |
|---|--|
| <p><b>Zoom In/Out</b></p> <p>Scroll the mouse wheel. Holding down the shift key while scrolling the mouse wheel will do an accelerated zoom</p> | <p><b>Zoom to Area</b></p> <p>Holding the shift key select an area using the left mouse button</p> |
|---|--|

|   |  |
|---|--|
| <b>Zoom out completely</b><br>Press the Z key or; hold the left mouse-button down, for half a second, and select the zoom out menu option | <b>Center on Point</b><br>Holding the shift key press the left mouse button; or<br>Hold the left mouse-button down, for half a second, and select the center on point menu option. |
|---|--|




## • *Event Notifications*

If your administrator has set up **Event Notifications** for this unit then you will receive notifications based on these setups.



1 A Message Notification

- An audio notification. This is a sound clip that gets played when the event triggers.
- A message notification. This is a message that gets displayed in the notification area of the resource panel. It's meant as an unobtrusive feed of events.

**Note:** To show the notifications area, click the  icon at the bottom of the resource panel. (This can be resized.) If an event has camera resources associated with it then the notification can be double-clicked and the cameras will be shown in the camera view.



2 A Popup Notification

- A popup notification. This is a popup message that is shown when the event triggers.



Clicking on the database icon in the notifications pane, will open that camera in the cameras panel at the point, in the database, where the event occurred.



Clicking on the recycle icon will either clear the notification (if you click on the recycle icon attached to the notification); or clear all notifications (if you click on the one at the top of the Notifications pane).

## • *Configure Resource Panel*



This section allows the administrator to setup the various resources that are pulled through into the resources panel. These include the Unit Resources, Camera Layouts, Camera Sequences, Layout Salvos, and Site Actions.

**Note:** Since this is part of the Site Configuration it has been dealt with in the full Setup Manual, for further information refer to this manual.

## • *Resource Panel Filter*





Clicking on the resource filter icon will bring up the filter options.

The checked items ☒ will appear in the resources panel; the unchecked items ☐ will not appear.

This is useful in sites that have many resources that the user may want to filter when looking for something specific.

## g. Snap-Search

While in review mode, you will be able to search the database recordings for frames which match the current still-image on the screen.

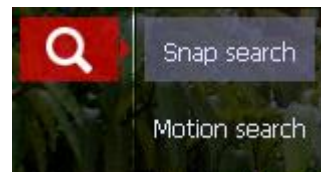
### Open Snap Search Window

To perform a snap search, the **camera must be in review mode**. There are two ways of opening Snap Search: via the **Video Feed Options Panel Search Tools**, and the **Context Menu**.

- **Video Feed Options Panel Search Tools**

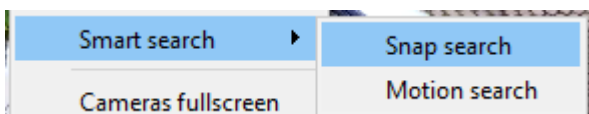


Open the Video Feed Options Panel by hovering near the left of the panel and clicking the arrow that appears.



Click the **Search Tools** icon and select **Snap Search**.

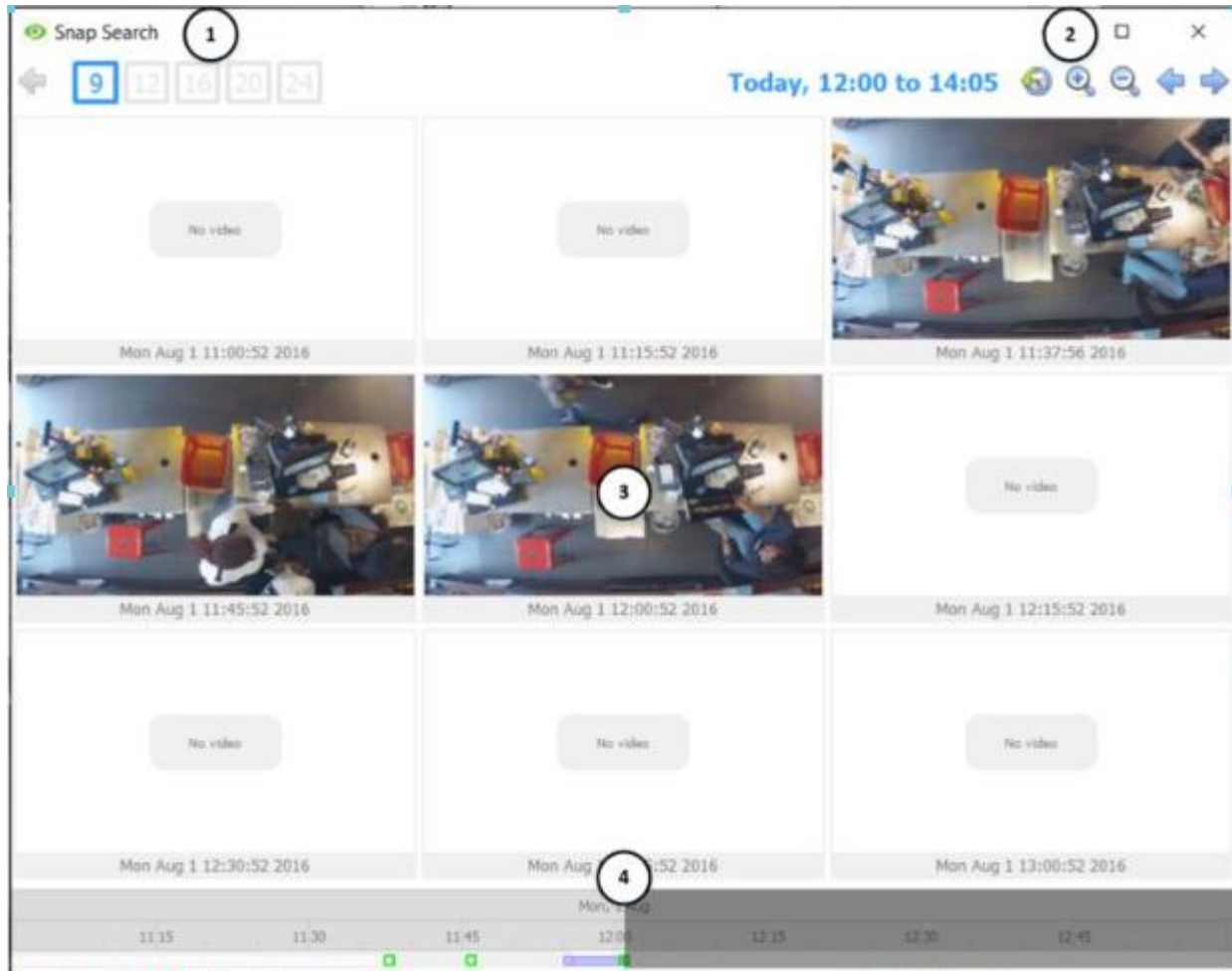
- **Context Menu**



Open up the context menu by middle-clicking on the camera image and selecting Search → Snap search.

This will bring up the Snap Search window below, in which all frames matching the current image are displayed.

## Snap Search Window



1

**Frame Display.** Choose how many frames to display on the page.

2

**Time Range Control.** Set the time range of the search, zoom in/zoom out to narrow or widen the time range, or go back and forwards between time periods.

3

**Frame Area.** All frames which are similar to the image you used to search will be displayed in this area.

4







**Timeline.** Use this timeline to navigate between relevant frames.

- **Time Range Control**



See the table below for an explanation of the time range control buttons.

|                              |  |
|------------------------------|--|
| <b>Today, 09:50 to 13:20</b> | The current time range in which frames are being viewed. If the time range is changed, it will reflect here. |
|                              | <b>Set the time range.</b> Clicking this icon will bring up the window below, in which the range may be set. |

|   |  |   |
|---|--|---|
|  |    | Set a Start and End time range.<br> to <b>Accept</b> .<br> to <b>Cancel</b> . |
|  | Zoom in to narrow the time range, zoom out to widen the time range.  |   |
|  | Go next/previous time periods. Depending on what you have set your time range to using the clock icon above, you can navigate between time range periods using these buttons. The length of the period is determined by how narrow/wide your time range has been set to. |   |

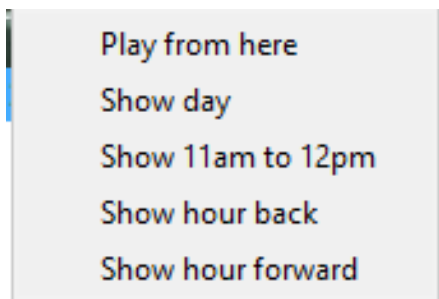
- **Frame Area Controls**

In the frame area, a number of controls are available. These are:

#### Double-click a frame

Double-clicking on a thumbnail will start playback from that frame in the CathexisVision GUI review, but the Snap Search Window remains open.

#### Right-Click a Frame



**Play from here** will open an embedded video player and start playback of the recording from the frame selected.

**Show day** will display frames from that day over 24-hours (midnight to midnight).

**Show 11am to 12pm:** This shows frames from the hour of the selected frame. Thus, this time range will change according to the time of the specific frame you have right-clicked on.

**Show hour back** will move the time range an hour back and display the relevant frames.

**Show hour forward** will move the time range an hour forwards and display the relevant frames.

#### Search Between Frames

You are also able to search time periods between specific frames on the page by clicking-and-dragging.

Click on the frame you want to start your search with, and drag to the frame you want to end your search with.

A blue line will visualize this, and the time between the two frames will be displayed.



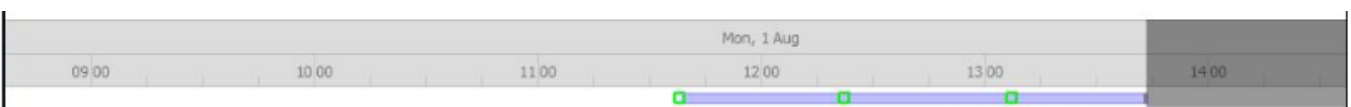


A negative (-) or positive (+) sign indicates whether the time difference is ahead or behind the selected frame.



You may search between any frames, in any direction.

- **Timeline**




The snap search timeline functions in the same way as the CathexisVision GUI timeline. Click anywhere on the timeline to go to that time. You may also archive from the embedded player.



Indicates there are recordings during the highlighted time period.



The green square on the timeline indicates that the position of matching frames. Click on it to display.

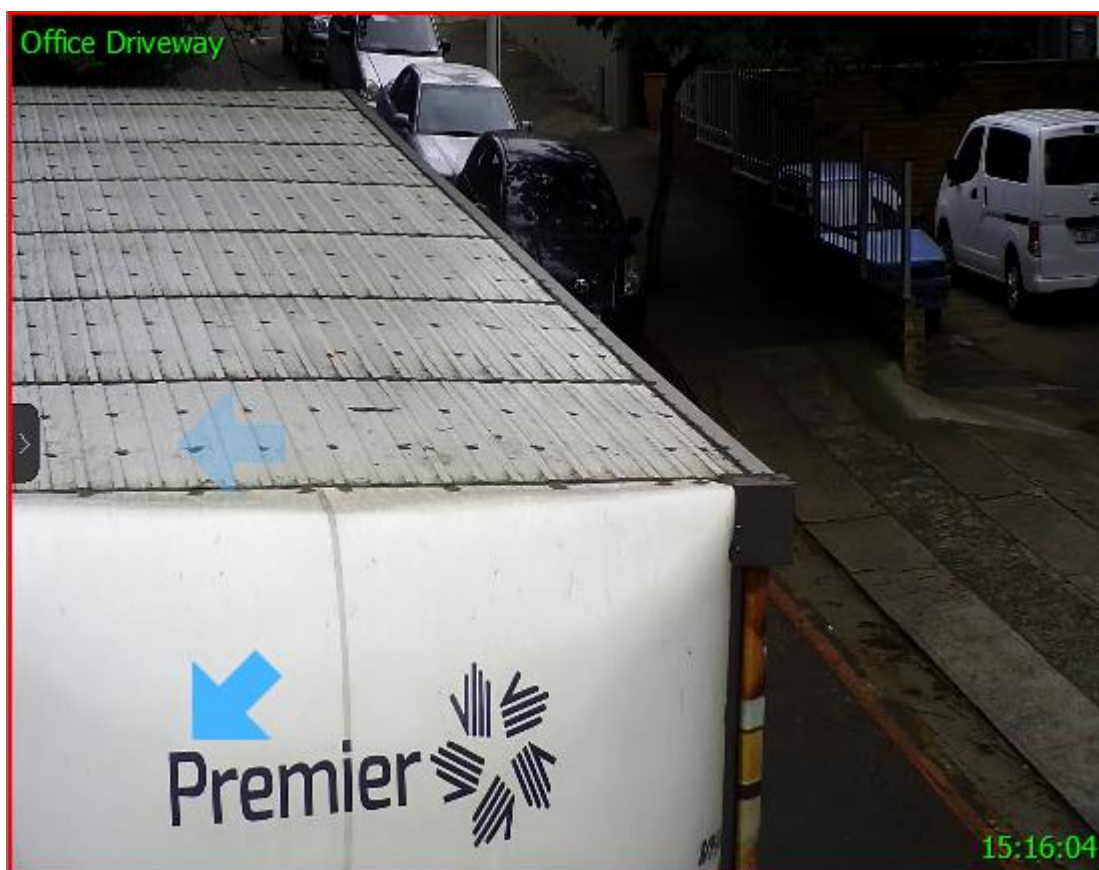
Once a frame is selected in the frame area, the corresponding green square will turn orange. 



## h. Adjacent Cameras

As an operator, you are able to navigate between adjacent cameras (cameras that are physically next to each other) from live and review mode, provided an administrator has set up adjacent camera mapping.

This feature is beneficial as you will be able to follow a person in real time using linked cameras using blue direction arrows which appear over the camera image as overlays.



### Navigate

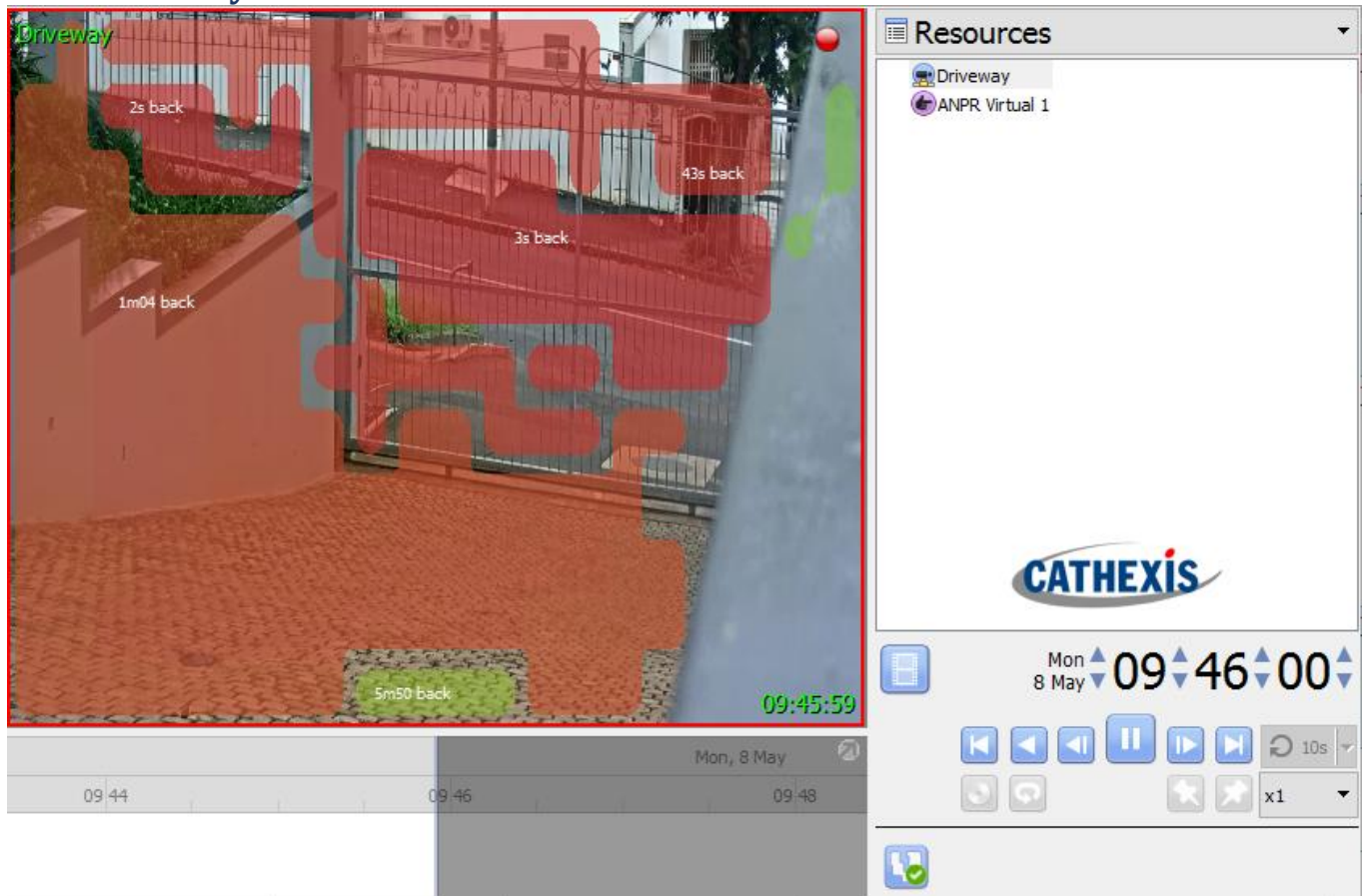
Click the red arrows to navigate to cameras to the **Right/Left/Up/Down direction** of the current camera. As you navigate, the relevant camera will be highlighted from the Resources list. You may also double-click on a camera name from the Resources list to switch to it.

- ***View Camera Thumbnails***



To view thumbnails of the cameras in live/review mode instead of the camera names, click the Resources dropdown menu and select Adjacent cameras.

## i. Activity Trails




The Activity Trail feature will indicate where and when activity happened in an area by displaying an overlay over the camera feed. The movement of a person or object will be recorded as an activity trail and is represented in this overlay with the colour of the overlay indicating how recently the activity took place. The overlay is interactive, and clicking on a certain activity area will navigate to the time that activity occurred.

The information below pertains to the elements of the Activity Trails feature which applies to both Live and Review mode. Below this, there are dedicated sections for both Live and Review which deal with the options specific to each mode.

### **Note:**

- Cameras must have recording setup in order for all features to work.
- The Activity Trails feature uses metadata from the Motion Search analytics database. To view Activity Trails in review mode, cameras must have Motion Search analytics configured.

### • ***Toggle Activity Trails On/Off***

Click the  button to turn Activity Trails on/off:



Activity Trails **off**.



Activity Trails **on**.

- **Activity Trail Overlays**

The time that activity occurred in the area is indicated by the **colour of overlays** and by **Activity Time** (in minutes and seconds which is displayed on top of the overlay).

**Note:** In live mode the overlay will show the most recent activity in an area provided that activity occurred in the last 15 minutes. In review mode, the overlay is able to show activity up to an hour before and an hour after the current review time.

### Overlay Colours

Overlays, which range along a spectrum from green to red, are coloured according to when activity occurred in an area. The greener an overlay, the further back in time the activity in that area occurred; the redder an overlay, the more recent the activity in that area is.



### Activity Time



Time of activity in the area is also indicated by the actual time in minutes and seconds which is displayed on top of the overlay.

### Go to Time of Activity

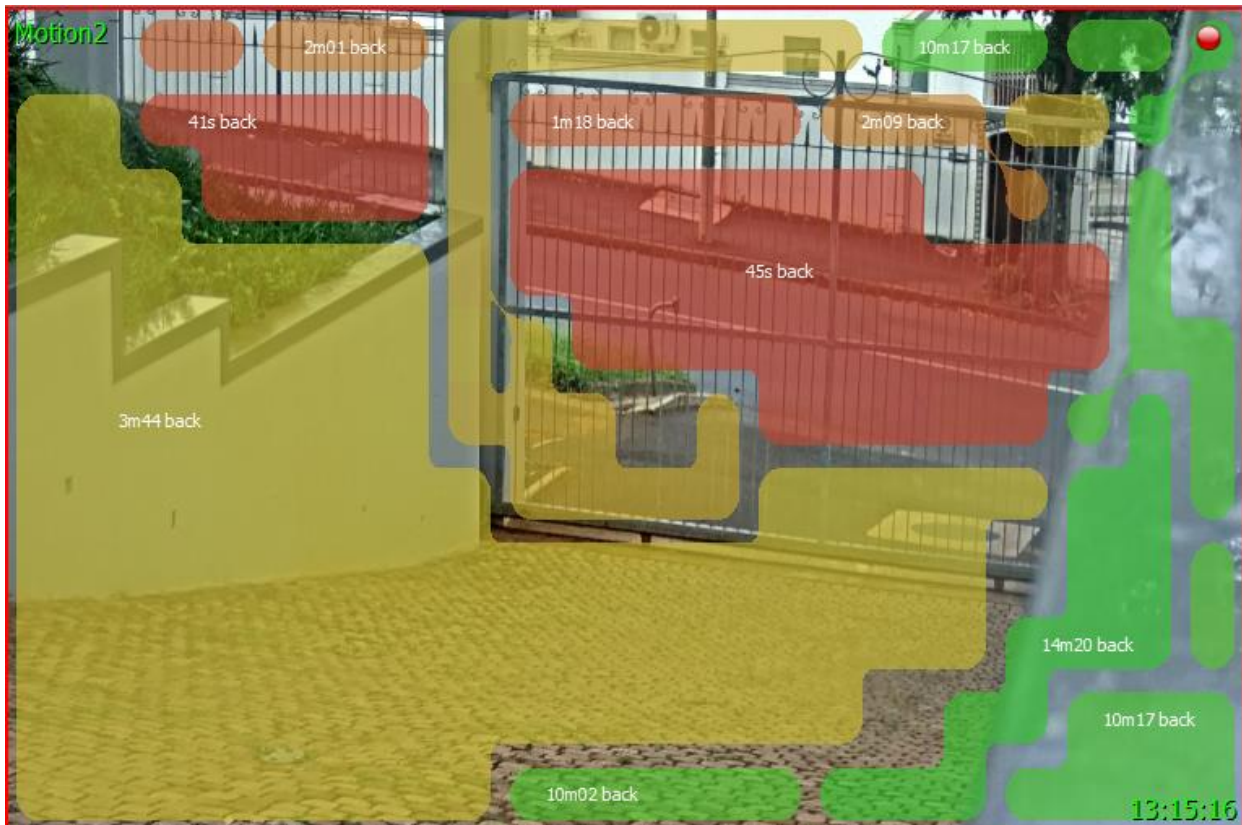
Double click on one of the activity areas (highlighted by the overlay) to go to the time of that particular activity in the recordings. If you are in Live mode, this option switches you to review mode.

**Note:** This option is dependent on recording being set up on the camera.

## Live Mode

When in live mode, and Activity Trails is toggled on, the activity overlays will appear. The time that activity occurred in an area is indicated both by the colour of the overlay and by the activity time (displayed in minutes and seconds) which appears on the overlay.

In live mode the overlay will only show activity which has occurred in the last 15 minutes.



- Clicking on an activity area will switch you to review mode.
- In Live mode, meta is displayed along the timeline.

## Review Mode

If you have double-clicked an activity area to review, or you have switched to review, the activity overlays and the timeline will differ slightly from live mode.

### **Note:**

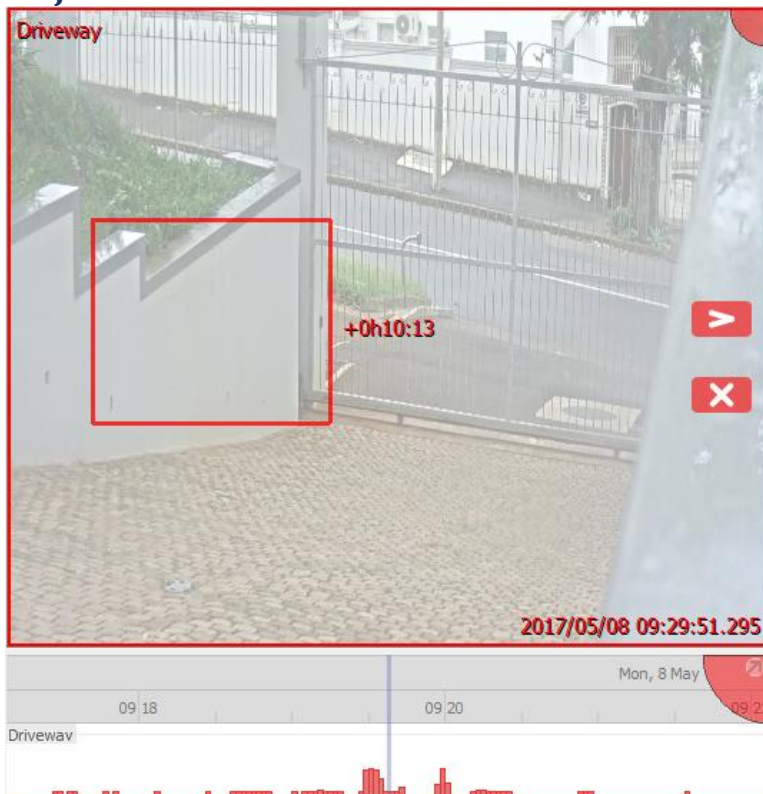
- In review mode, the overlay is able to highlight activity up to 60 minutes ahead or behind the current review time.
- The Activity Trails feature uses metadata from the Motion Search analytics database. To view Activity Trails in review mode, cameras must have Motion Search analytics configured.





|   |                                   |   |
|---|-----------------------------------|---|
| 1 | <b>Overlay and Activity Time</b>  | <p>The overlays will change colour and the activity time will decrease/increase depending on how recent the activity is.</p> <p>When activity is 'Active', it means that activity occurs at that point in the recording.</p> <p>When looking forwards, the activity time counts down to the time that activity occurs (instead of counting the time after activity occurred).</p> |
| 2 | <b>Activity level on Timeline</b> | <p>This indicates that this camera has <b>Motion Search</b> analytics enabled, and that there has been activity at the points indicated along the timeline. The higher the motion spikes, the more activity in the area at that point.</p> <p>Activity levels on the timeline are enabled by default when Motion Search analytics is configured on a camera.</p>                  |
| 3 | <b>Look Back/Ahead</b>            | <p>These buttons let you look back/ahead 60 minutes in the activity data.</p>   |

## j. Motion Search



In review mode, the **Motion Search** function lets you select certain areas of the camera image to search for recent motion in the selected area.

This feature is not connected to Activity Trails, and Activity Trails does not have to be toggled on for this feature to function.

### Note:

- Camera must be in review for Motion Search to work.**
- Motion Search must be configured in Setup Tab → Configure Servers → Video Analytics in order for this to function.
- Motion search data is gathered in real time; this means that there won't be any search data available for periods when Motion Search was not configured.

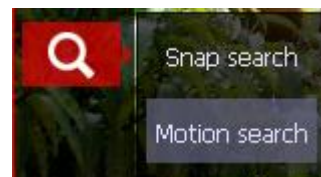
### Perform New Motion Search

To perform a motion, the **camera must be in review mode**. There are two ways of opening Motion Search: via the **Video Feed Options Panel Search Tools**, and the **Context Menu**.

#### • *Video Feed Options Panel Search Tools*

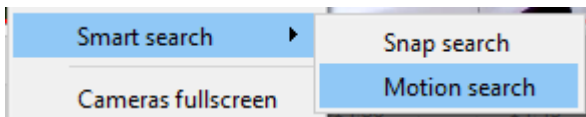


Open the Video Feed Options Panel by hovering near the left of the panel and clicking the arrow that appears.



Click the **Search Tools** icon and select **Snap Search**.

- *Context Menu*




Open up the context menu by middle-clicking on the camera image and selecting Smart Search → Motion Search.

This will bring up the Motion Search feature.

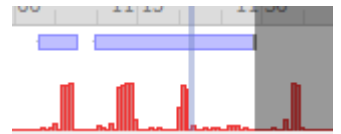
- *Select Region to Search*



With your left mouse-button, click and drag to select an area on the camera.

Click  to search for motion in the selection region.

Motion will be displayed on the timeline:



Click  to exit Motion Search.

## 4 Archiving

Archiving is a facility to enable you to select recordings and copy them to archiving media, such as USB key, hard drive or CD/DVD. Archived recordings retain their authenticity and can be verified as authentic (unaltered) on replay.

Creating an archive is done from within the Cameras tab; reviewing and exporting an archive all occurs in the Archive viewer tab, or the CathexisVision Archive Player.

**Note:**

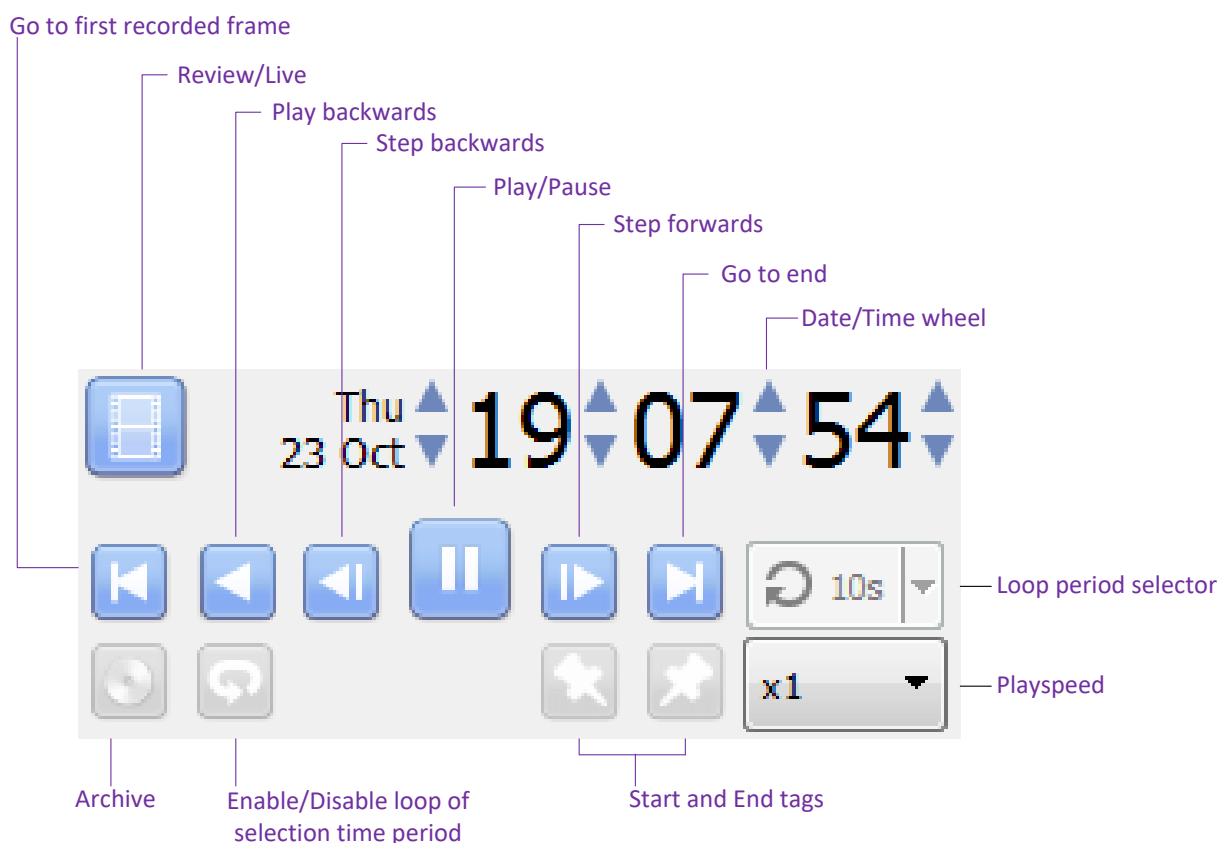
When archiving a video stream which has **Privacy Zones**, the archive file will have the zones included only if the feed is set to “Show privacy zones” at the time of archiving.



This section details the procedures for reviewing video and selecting portions of the video to be archived.

### a. Review Controls (Timeline and Review Controls Panel)

This section will deal with reviewing video in CathexisVision. There are two sections that may be used to review recorded footage. The **Review Control Panel**, and the **Timeline**.

#### Review Control Panel

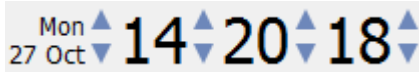


**Note:** When you click the  icon, to enable review, it will change to an  icon. Clicking the running-man icon will return you to live view.

- **To Review Footage from a Certain Date**



## Using the Time/Date Wheel





To go to a specific date, select the camera/s that you wish to review, and click on the arrows of the Date/Time wheel until you have settled on the correct date/time.

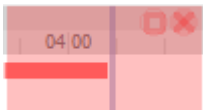
## Using the Timeline

To move to a date and time, using the timeline simply left-click and hold anywhere on the timeline, and drag the timeline to the time/date you desire.

- **Selecting a Period for Review**

After finding something of interest, you may wish to loop through the recorded footage around that event. (This can also be useful when selecting footage for archive).

Start by using the using the Date/Time wheel, to navigate to the desired beginning point. Once you have it, click on the  icon, which will tag the start of your selection. Then navigate to the end of your desired period, and click on the  icon, to tag the end of your selection.



The selected areas will appear as you see to the left. By default it will be set to loop. This can be seen when looking at the loop icon



means that it will loop, to the beginning of the selection, as it gets to the end of the selection.



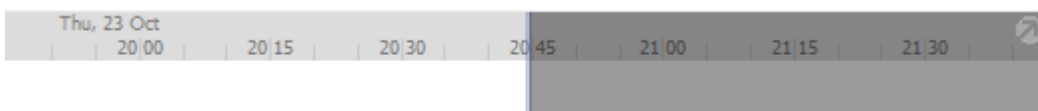
Means that the video will continue to play past the end of the selection.

## Timeline

The timeline at the bottom of the GUI indicates where in time the currently selected cameras are.

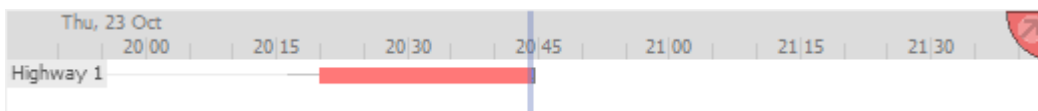
**Note:** while you may review legacy video in CathexisVision 2015 and onwards (recordings made on pre 2015 systems) the timeline will remain blank.

- **Live View Timeline**

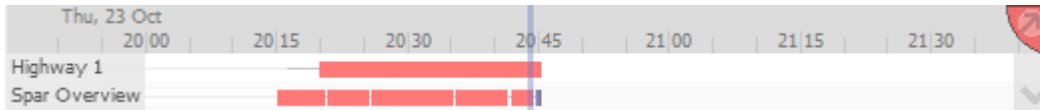


The live view timeline simply show the current time at the intersection between white and grey.


- **Single, and Multiple, Camera Review Timeline**



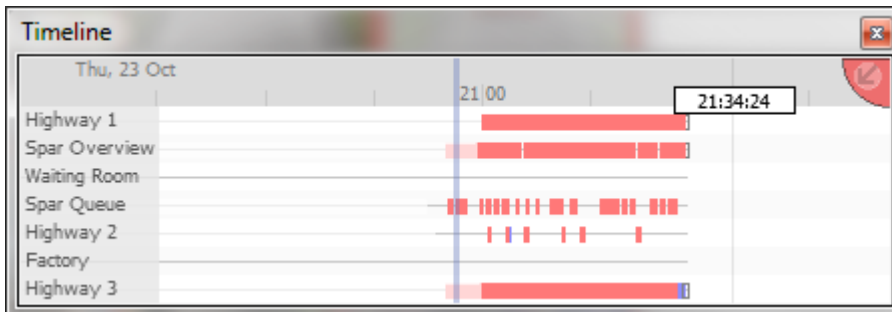
When reviewing a camera's recorded video you will see the timeline change to show red blocks. These blocks on the timeline represent recorded events.





If you have selected multiple cameras to review they will appear stacked on the timeline.

**Note:** You may only view two cameras' timelines at once, on the docked . To cycle between them click on the  icon at the bottom right of the timeline. If you wish to see more you may detach the timeline from the GUI. This is described below.

- **Detached Review Timeline**

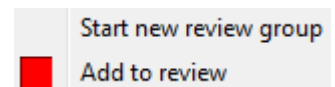


To detach the timeline from the GUI click on the  icon, at the top right of the timeline. To reattach the timeline click, in the same place, on the  icon.

- **Synchronised/Independent Review**

By default all reviews are synchronised, when you have selected multiple cameras for review. It is possible to review cameras independently.

When already reviewing a camera, if you middle click on a camera's panel you will see the following options in the context menu.



**Start new review group** will add this camera to a separate group of review cameras, which will be asynchronous to the original review group. The new review group is indicated by the tag on the top-right of the video. Each review group will get its own colour.

**Add to review** will add this camera to the already existing review group. As you add review groups the number of options here will increase as a result.


- **Timeline Actions**

### Zoom in on Timeline

There are two ways to zoom in on a section of the timeline.

1. By mousing over the timeline (during review) and rolling the mouse-wheel forwards. To zoom out roll it backwards.
2. But shift-selecting a section of the time line.



This is done by holding down the SHIFT key, while click-dragging your selection with the left mouse button. Your selection will look like the image to the left. To **zoom in** on this selection click on the  icon.

### Move the Timeline with the Mouse

You may move backwards and forwards in time, by left-click dragging the timeline in the direction that you want to travel.

## b. Archiving Video

Once you have selected your video you may archive it, and then, later review it.

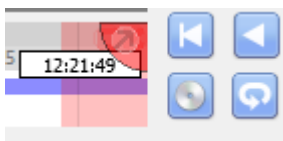
### Special Notes

1. A NetBSD GUI will only be able to output legacy archive files.
2. A NetBSD GUI is unable to archive video from a Windows/Linux NVR
3. A Windows/Linux GUI can only output new archive files, but will be able to archive video from a VR running any OS.
4. Do not format, or configure, the newly inserted CD/DVD. Windows presents an option to configure the disk as CD/DVD, or drive. This must not be done!



### Archiving from Live/Review

The Archive system has changed both the creation, and review, processes for archiving.

#### • **Select Video to Archive**



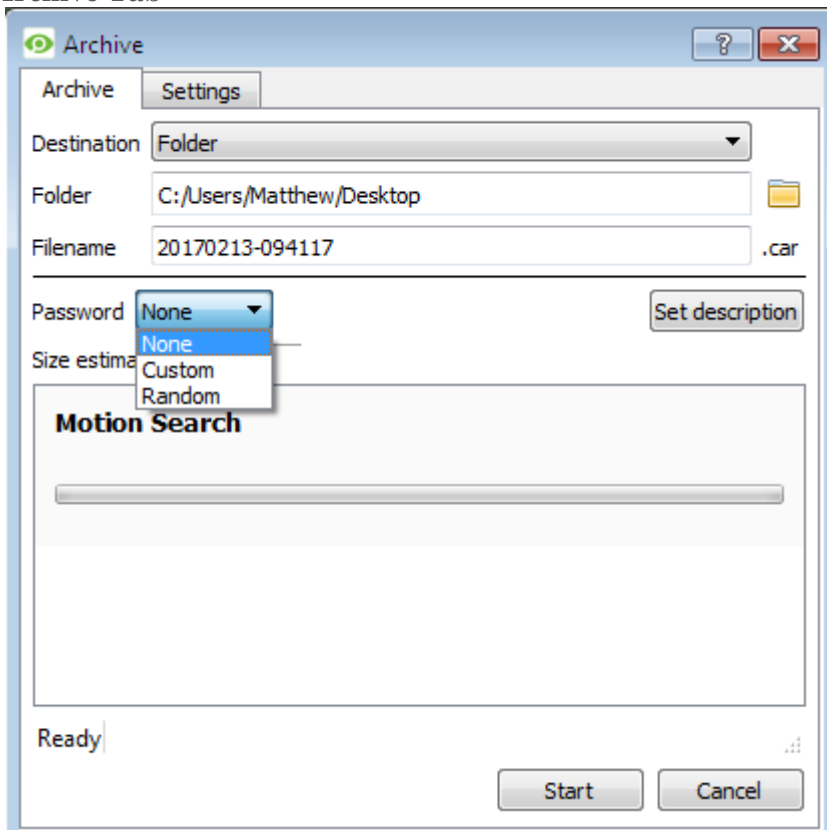
There are two ways to select the period which you want to archive.

1. **Tagging:** Click on the  icon to tag the start of your selection. Then navigate to the end of your desired period, and click on the  icon, to tag the end of your selection.
2. **Shift-selection:** This is done by holding down the SHIFT key, while click-dragging your selection with the left mouse button. Your selection will look like the image to the left.

Click on the  icon to start archiving your selection.

### Apply Archive Settings

#### Archive Tab



Choose the **Folder** to which you want to archive. Select a **subfolder** for this specific archive. The default folder name will be the current date, but you can rename this to something more descriptive if you wish.

The **filename** may be defined manually.

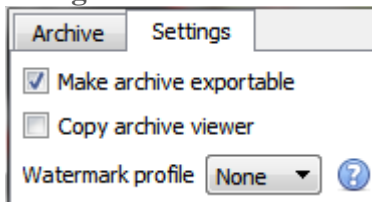
Add a **Password**, if you need one.

A **Size estimate** of the archive is provided.

Clicking on **Set description** will allow you to give this specific archive a title.

Click on **Start** to archive the selection with these settings.

## Settings Tab



Archive Settings

☒ Make archive exportable

☐ Copy archive viewer

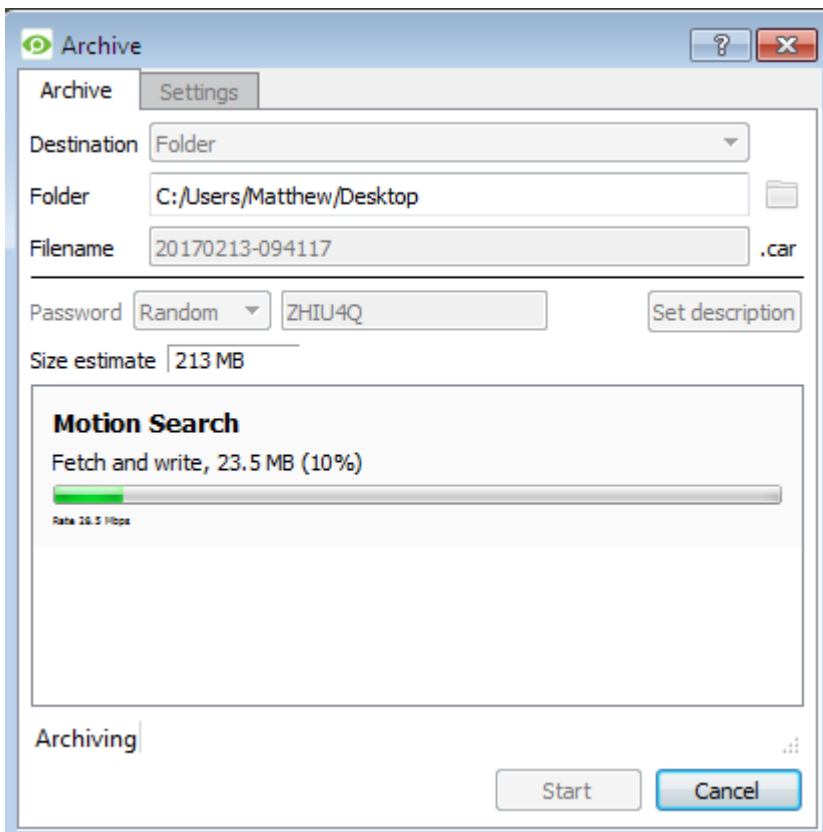
Watermark profile: None

You can make archives exportable or not exportable, by checking the box.

Use the **Copy archive viewer** option when the archive will be viewed on a computer that does not have the CathexisVision interface installed.

**Note:** The option to setup **Watermark profiles** is configured in Setup Tab → General Site Setup → Configure archiving. This setting is controlled by the administrator of the Site.

- *Complete the Archive process*



Archive

Destination: Folder

Folder: C:/Users/Matthew/Desktop

Filename: 20170213-094117 .car

Password: Random ZHIU4Q

Size estimate: 213 MB

**Motion Search**

Fetch and write, 23.5 MB (10%)

Rate 23.5 MBps

Archiving

Start Cancel

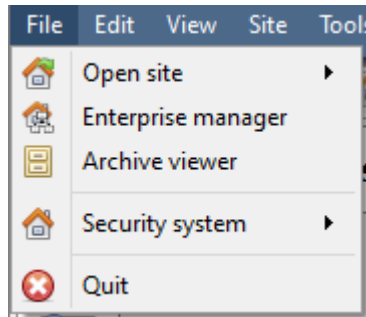
While archiving the interface will give you moving progress bars to indicate the progress of the archiving process.

## c. Reviewing Archived Video

Archives can either be reviewed from within the CathexisVision software using the Archive Viewer, or from the standalone Archive Player software which is installed with the CathexisVision software. The interfaces for both are exactly the same.

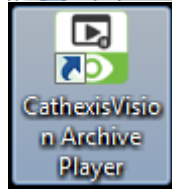
[Open Archive Viewer/Player](#)

## Archive Viewer



Open the CathexisVision GUI, and select File Menu → **Archive viewer**.

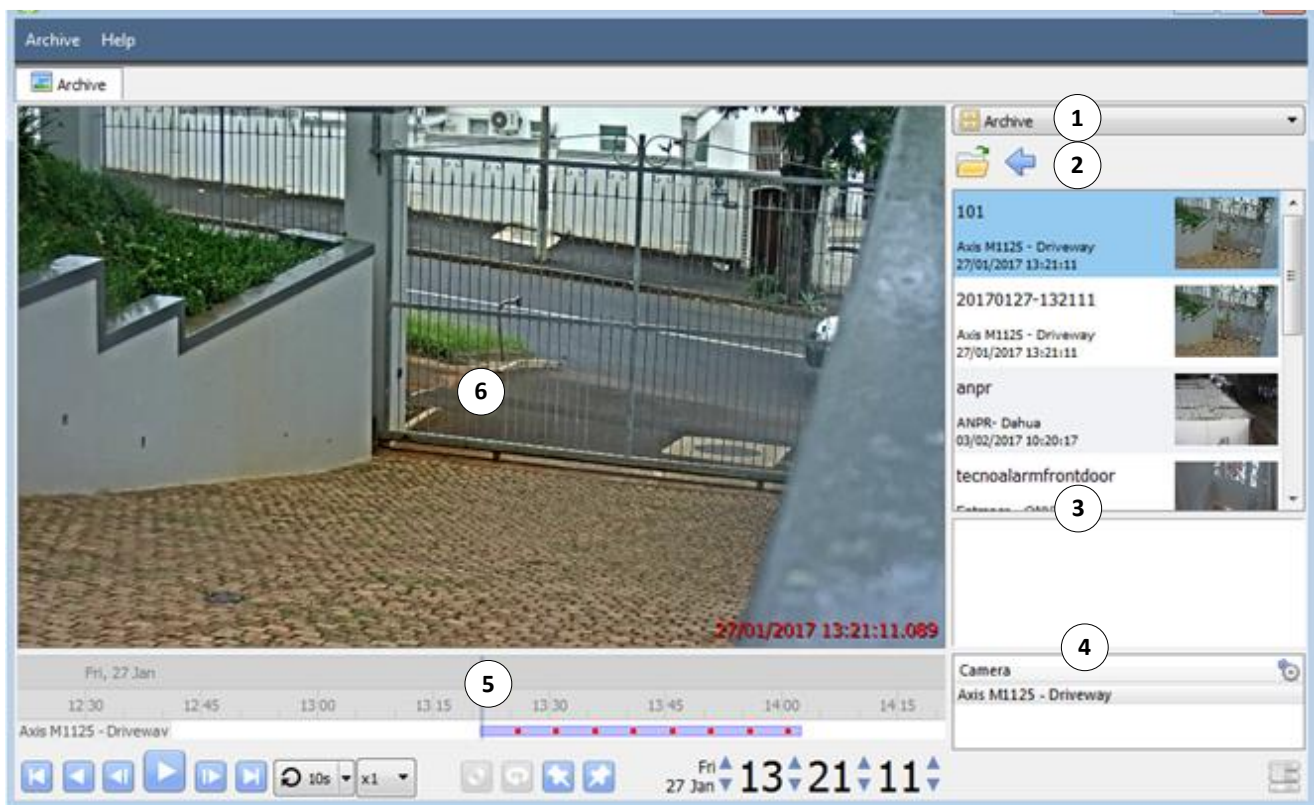
## Archive Player



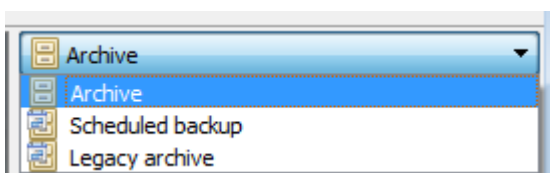
Double-click the Archive Player shortcut that is automatically created when the CathexisVision software is installed.

## Archive Viewer/Player Interface

This section details the interface of the archive viewer/player, and the processes that are performed in each.



### 1 Type Selection



From this drop-down menu, select the type of archive to view.

2

## Folder Navigation and Archive File List

Navigate folders on the computer containing archive files in order to find and view them.



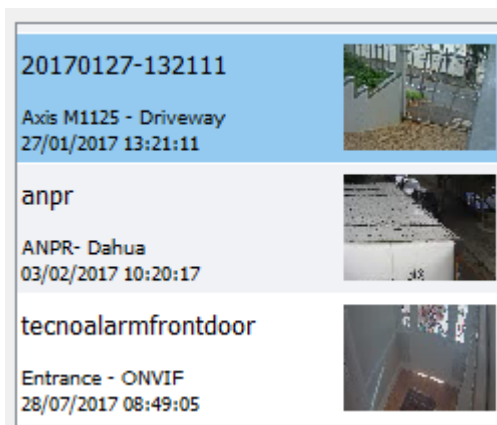
Click to browse folders in dialog window.

Click to go back to previous folder.

Once the folder containing the archive is selected/opened, all appropriate archive files will be populated in the archive file list.

**Note:** Individual archive files will not be visible when searching through folders. Archive files are only visible in the archive file list, once the general folder containing the archive files has been selected.

### • File Information

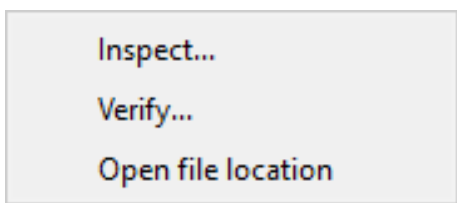


The archive file list displays information about the archives in the selected folder. This information includes:

- Archive file name.
  - Where no name is given at time of archive, date of archive is used instead.
- Name of camera from which archive originated.
- Date and time of archive.

### • Right-Click Options

Right-clicking on an archive in the archive file list will present the following options:



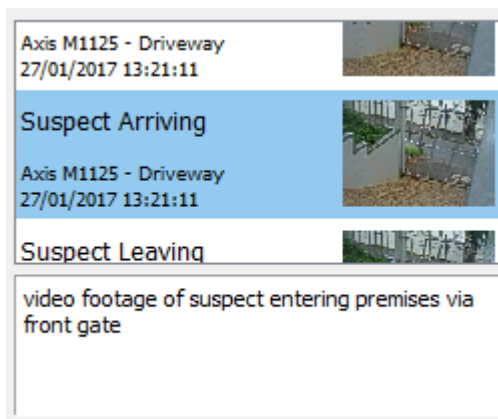
**Inspect** will display the meta-information of the archive. See the Archive Security section.

**Verify** will confirm whether the archive is authentic or not. See the Archive Security Section.

**Open file location** will open up the location of the selected archive file.

3

## Description



If a description for the archive was set during the archive process, it will appear in the field beneath the archive file list when the relevant archive file is selected.

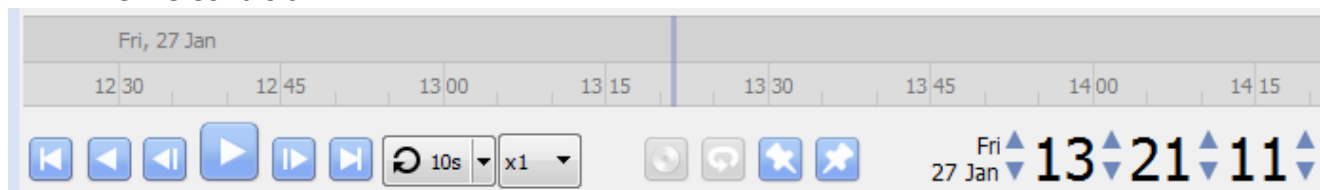
#### 4 Archive Properties

| Camera                | Start           | End             |  |
|-----------------------|-----------------|-----------------|--|
| Axis M1125 - Driveway | 20170127-132111 | 20170127-133905 |  |

When an archive is selected, its properties will be listed in the Archive Properties field.

Column view may be changed by clicking on the icon.

#### 5 Timeline Controls

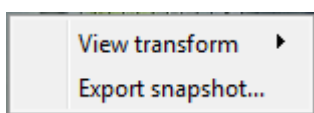


The timeline controls of the Archive interface are the same as those described in the **Cameras Tab** section, of this document. On the timeline itself, the blue line indicates an event/recorded video. The red dots indicate the point that an event was triggered.

#### 6 Archive Camera Panel

The selected archive will be available to view from within the camera panel.

##### • Right-Click Options



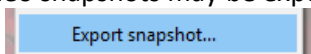
Select View Transform to transform the video.

Select Export snapshot to export a snapshot from the archived video. See below.

#### Export Snapshot

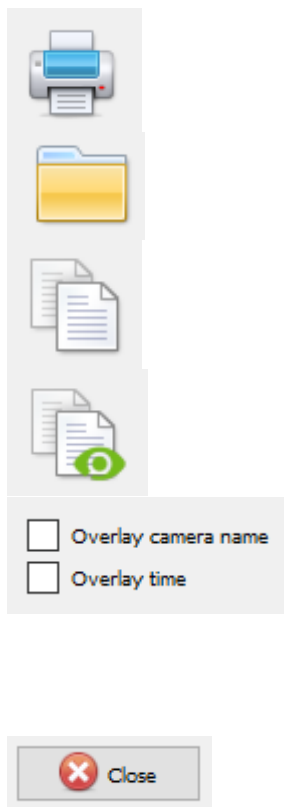
When reviewing archived video, video snapshots may be exported.

Right-click on the image and select



This will bring up the **Export snapshot** window, which provides you with the following options:





Print snapshot.

Save snapshot to folder

Copy to system clipboard.

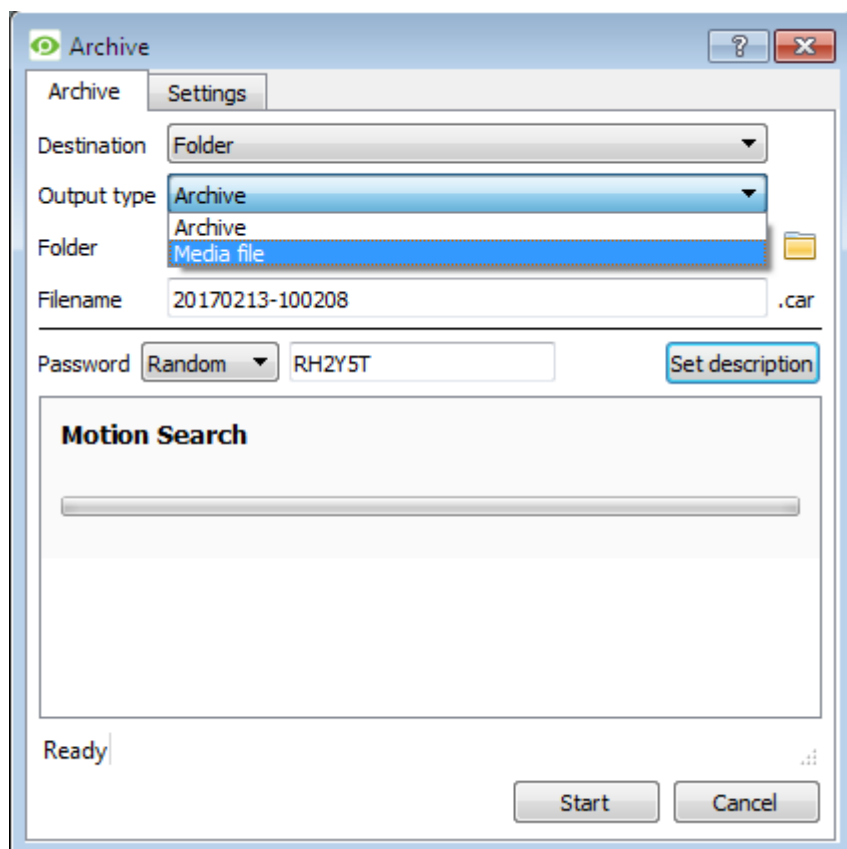
Copy to Cathexis clipboard.

This will overlay the name of the camera in the top-left corner of the camera image.

This will overlay the time of the recording in the bottom-right corner of the camera

Click once you have exported the snapshot as desired.

### Export Archive



Archives, or a selection of an archive, may be exported either as another archive, or as a media file.

To export the video as a media file, click on the dropdown menu for **Output Type**, and select **Media file**.

## d. Archive Security

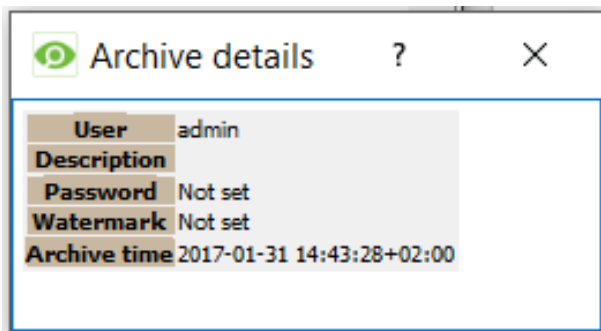
CathexisVision includes the following measures to ensure archive security:

- The overall signature of the archive is retained, linking it to the source NVR.
- Critical portions of video/audio can be independently signed and explicitly linked to the source NVR.
- Clients sourcing data from an NVR for archive are audit logged.
- Archives can be encrypted with a password during archiving process.
- Watermarks can be embedded in archive during archiving process.
- Archives can be inspected to reveal archive meta-data.
- Archives can be verified in order to determine the authenticity of an archive.

This section demonstrates how to inspect the meta-data of an archive, and how to verify the authenticity of an archive.

### Inspect Archive

To inspect an archive for its meta-information, right-click on the archive in the archive file list and select Inspect. This will bring up the window below:



**User** will display the username of the operator who performed the archive.

**Description** will show the description of the archive (if set).

**Password** will show **Encrypted** if a password is set, and Note set if not.

**Watermark** will show the watermark of the archive (if set).

**Archive time** will show the time and date that the archive was performed.

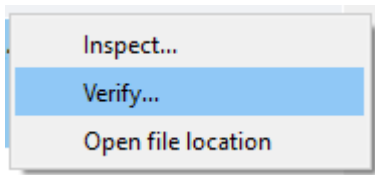
### Verify Archive

CathexisVision 2017 has introduced a verification feature which provides a report on the authenticity of an archive for security reasons. Archives may be verified from the archive viewer in CathexisVision or from within the CathexisVision Archive Player.

Should there be a query regarding the verification, operators may copy the verification result and email it to Cathexis support for help.

**Please note:**

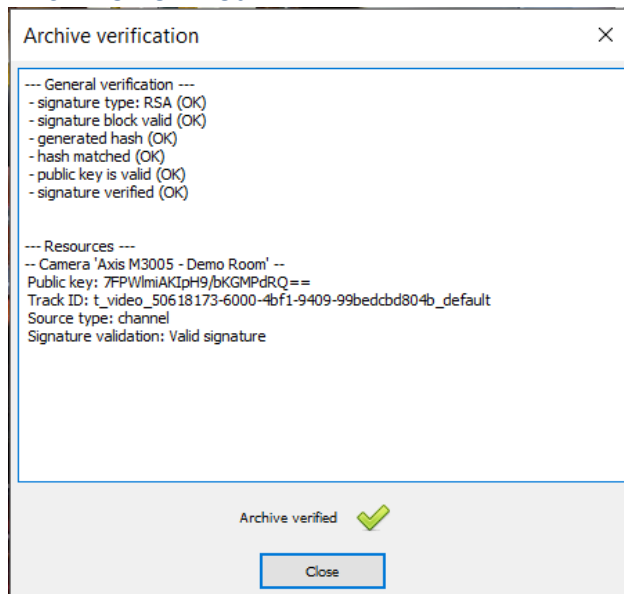
Sub-archives (archives of archives) do not contain any signatures generated by the original NVR that sourced the video data. The authenticity of these archives cannot be verified by Cathexis.



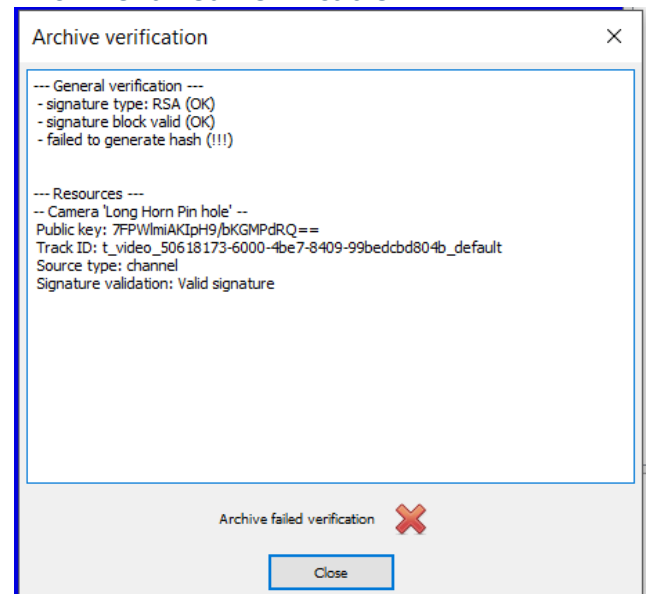
Once you have opened the file location of your archive in either the archive viewer or the CathexisVision Archive Player, right click on the relevant archive. Select **Verify**.

Once you click Verify, the software will determine whether or not the archive is authentic by indicating an archive as Archive Verified or Archive failed verification.

### Archive verified



### Archive failed verification



**Note:** Archive verification reports may be copied and emailed to [support@cat.co.za](mailto:support@cat.co.za).

## 5 System Alerts and Alarms

Technical alarms and alerts will be received either to the Alarm Gateway (see Alarm Management Gateway Document) and/or to the main CathexisVision interface in the event that there is a system error.

This section details the kinds of technical alarms and alerts that may be received, and an explanation of what a sample alarm looks like in the interface.

**Note:** This does **not** deal with receiving alarms to the Alarm Gateway. Please consult the Alarm Management Gateway Document for information on this aspect of technical alarms.

### a. Types of Technical Alarms

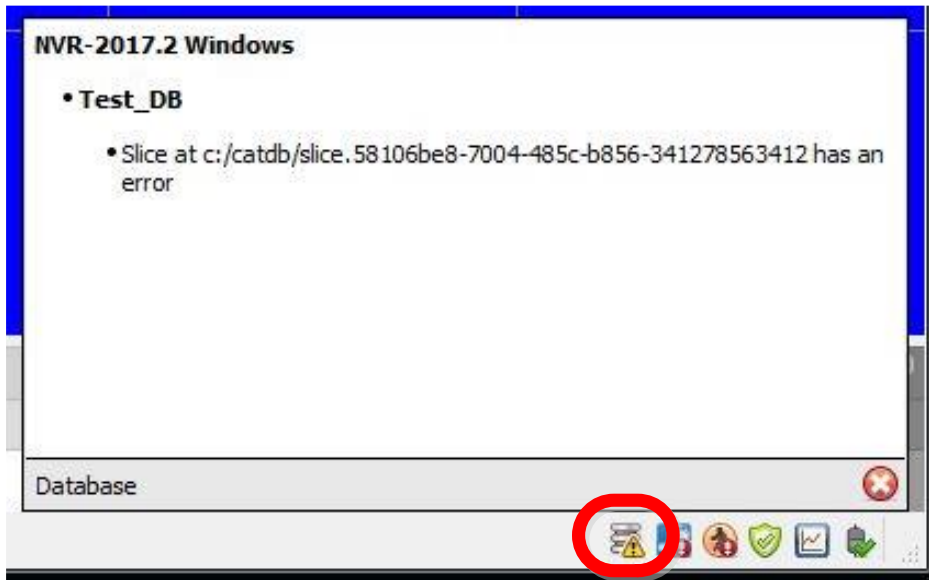
A single **Technical Alarm** can send on multiple different errors. The table below provides some examples of the kinds of errors that will send a technical alarm:

| Technical Alarm             | Error/s  |
|-----------------------------|--|
| <b>Test</b>                 | Triggers an alarm at a set frequency. This is intended to test the system, to see if it will receive alarms.   |
| <b>Camera Faults</b>        | Will generate based on cameras being up for a certain percent of the time, or cameras failing a certain number of times in a given period.                             |
| <b>Frame-Grabber</b>        | Will generate if a frame-grabber has a problem, such as frame-grabber reboot, card stalled.  |
| <b>Scheduled Archive</b>    | Will generate if a scheduled archive encounters a problem, such as the archive destination not being accessible.   |
| <b>Disk</b>                 | Will generate if when disk errors occur.   |
| <b>Environment</b>          | Will generate if environment warnings are received, such as high CPU temperature, fans running at low RPM. (NetBSD only)   |
| <b>Software Failure</b>     | Will generate if a software module fails.  |
| <b>Database</b>             | Will generate if the database encounters an error, such as failing to write data to the database.  |
| <b>File-System</b>          | Will generate if file-systems become full (NetBSD only).   |
| <b>Meta-Database</b>        | Will generate if the meta-database (typically used in integrations) encounters a problem, such as running out of disk space.   |
| <b>Base-Station Alarms</b>  | Will generate if a base-station has been configured to send alarms via a capture station. The base-station can generate alarms such as software failures.              |
| <b>Reboots</b>              | Will generate if a unit reboots frequently, or has a watchdog, or hard-reboots (configurable, NetBSD only).  |
| <b>Server Monitoring</b>    | Will generate if a unit on the site goes down.   |
| <b>Recording failure</b>    | Will generate if a recording should be taking place, but for some reason isn't.  |
| <b>Recording Period</b>     | Will generate if a database stops recording before its predefined period is complete.<br>E.g. if you set a database to record for 30 days, but it only records for 25. |
| <b>Gateway alarm</b>        | <b><u>Only applies to gateway systems</u></b> , and triggers when the gateway experiences a problem, such as an error connecting to the alarm database.                |
| <b>Integration Database</b> | Will generate if the integration database is down.   |
| <b>Network I/O</b>          | Will generate if an <a href="#">EIO</a> is down.   |
| <b>Failover</b>             | Will generate if any of the failover servers are down.   |

## b. Example: Database Technical Alarm

This is an example of the way a database technical alarm looks in the software, as well as in when an email is sent and/or a base-station is called.

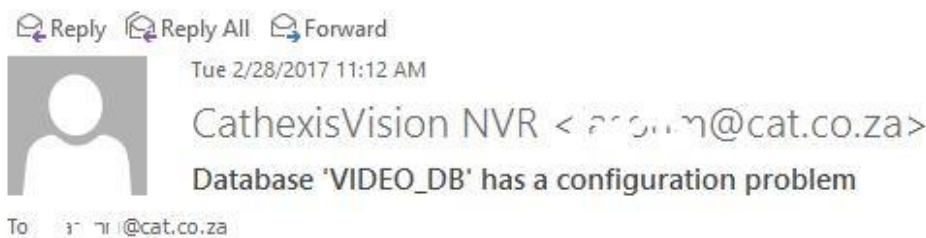
### Notification Icon



If a database technical alarm is sent, a database error icon will appear in the Status Bar at the bottom of the interface.

Click on the icon to display information about the error.

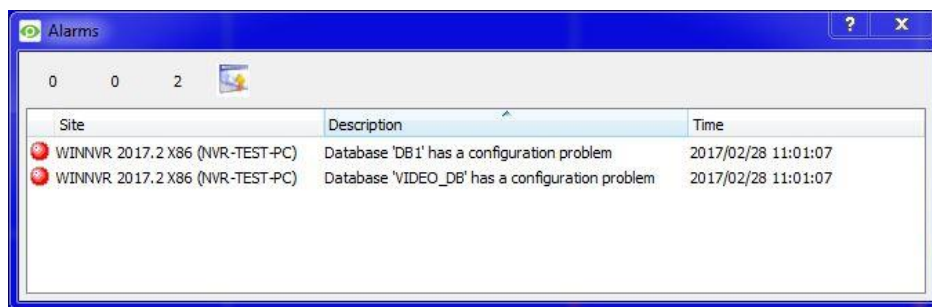
### Send Email



If an email address has been set up to receive an email when a database technical alarm is sent, this is an example of what will be received.

Alarm name: Database Error  
Alarm time: 2017/02/28 11:11:40  
Server: NVR-TEST-PC

### Call Base-Station



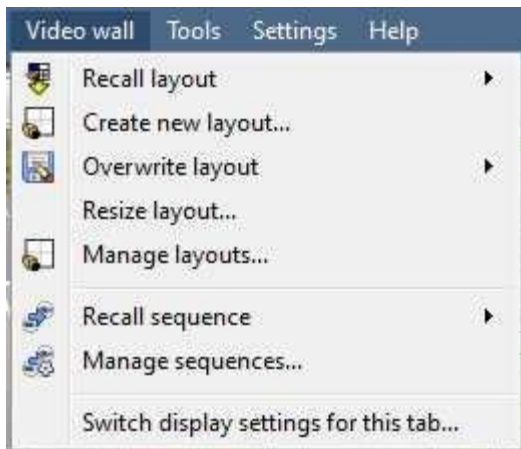
The screenshot shows a window titled "Alarms" with a blue header bar. Below the header, there are three status indicators: "0", "0", and "2", followed by a small icon. The main area of the window contains a table with three columns: "Site", "Description", and "Time". There are two rows of data, both preceded by a red circular alarm icon.

| Site                            | Description                                     | Time                |
|---------------------------------|---|---------------------|
| WINNVR 2017.2 X86 (NVR-TEST-PC) | Database 'DB1' has a configuration problem      | 2017/02/28 11:01:07 |
| WINNVR 2017.2 X86 (NVR-TEST-PC) | Database 'VIDEO_DB' has a configuration problem | 2017/02/28 11:01:07 |

If your unit has been configured as a base-station, and a database technical alarm is sent to it, an alarm window will open.

## 6 Layouts and Sequences (Video Wall Menu)

### a. Video Wall



In pre-5403b software this menu was titled the Layout Menu, and only contained setup information for Layouts.

A **Layout** defines how the cameras appear on the screen, in the Cameras Tab. Including which cameras are shown, and how much space they take up on the screen.

A **Sequence** is a cycle of individual cameras that will run, on a timer, in a single viewing pane, in the Cameras Tab.

The **Switch Display Settings for this tab** will define the behaviour of the currently open Cameras Tab, when video information is sent to the Client Station with an alarm

**Note:** this menu option will only be present when you are viewing a Cameras Tab.


### Layout

A **Layout** defines how the cameras appear on the screen, in the Cameras Tab. Including which cameras are shown, and how much space they take up on the screen.


#### • *Create new Layout*

To create a layout, organise your cameras on the screen as you desire (double-left-click to expand; single-right-click to reduce). Then click on **Layouts** > **New**. Give the Layout a name, and click OK. (you can use Layouts created in the Cameras Tab in the Monitors Tab, and Visa Versa.)

#### • *Recall a Layout*

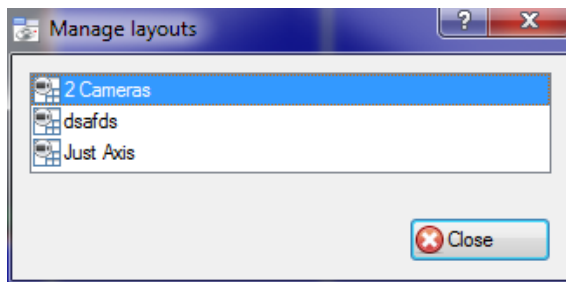
To bring up a list of existing Layouts, click on  **Recall** and select the layout name that you desire.


#### • *Overwrite Layout*

Clicking on  **Overwrite**, and selecting on one of the Layouts in the list, will overwrite that Layout with the current panel organisation.



- **Manage Layouts**



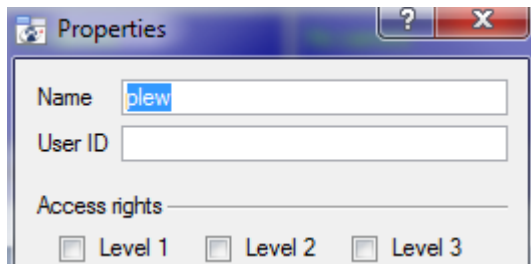
Clicking on  **Manage** will bring up the list of existing Layouts for you to manage.

From the management list you may either delete the Layout or enter the **Layout Properties** window

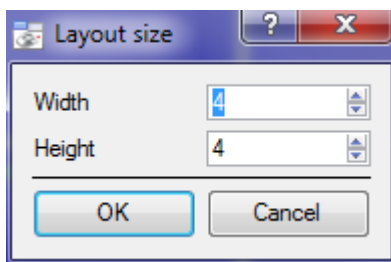
These are both done by right-clicking on the Layout in the list.

In the **Layout Properties** window you may change the Name, and User ID of the Layout, as well as the User Access Level required to view, or edit, the layout.

**Note:** if you have limited access rights, you won't be able to change these settings



- **Resize Layout**



Clicking on **Resize layout...** will give you the ability to change how many cameras are arranged on the screen.

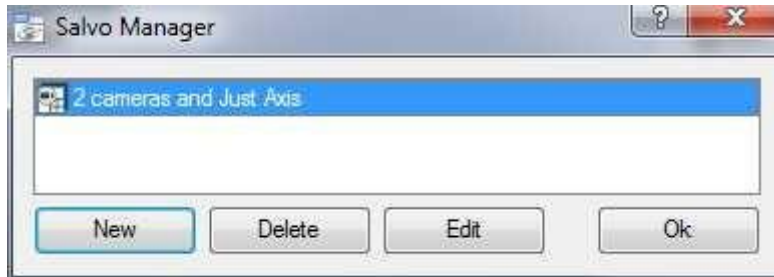
You may define how many cameras there are per row, and per column.


The maximum amount of cameras you may have per screen will be an 8\*8 matrix. This gives you a possible 64 cameras per Layout. (This would require an incredibly large screen to be practical, though.)

## Sequence

A **Sequence** is a cycle of individual cameras that will run, on a timer, in a single viewing pane.

- **Sequence Manager**

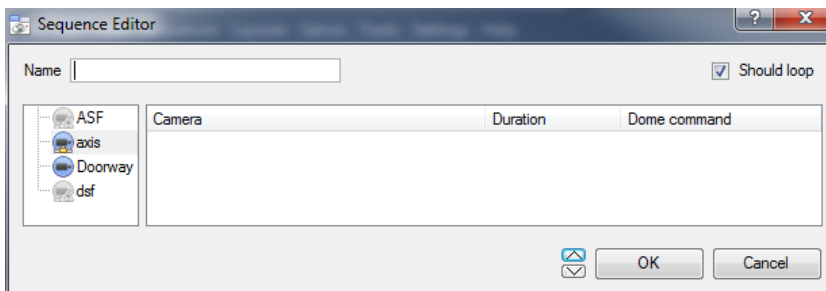


Clicking on the  icon will bring up the Sequence Manager.

To edit a Sequence, select the existing Sequence and click Edit. To create a new Sequence, click on New. This will bring up the Sequence Editor.

- **Sequence Editor**



You may access the Sequence Editor, where you can create and edit sequences, via the Sequence Manager.




Name your Sequence Appropriately.

The left-hand panel will hold a list of available cameras.

The right-hand panel will hold a list of cameras that are included in the Sequence.

| Sequence Editor Procedures  |  |
|---|--|
| <b>Add a camera to a Sequence</b>                                 | You may:<br>-double-click on a camera in the list of available cameras.<br>-Or click-drag one, or multiple cameras, across into the Sequence list.   |
| <b>Remove a camera</b>  | Right-click on the camera and select Delete.   |
| <b>Set the duration of a camera for each loop of the Sequence</b> | -Right-click, and select Set Duration.<br>-Enter the duration in seconds, and click OK.  |
| <b>Looping</b>  | If the <input checked="" type="checkbox"/> Should loop option is checked the Sequence will run indefinitely, if it is unchecked the Sequence will run once.  |
| <b>Change the order</b>   | Select a camera and use the   arrows to move that camera up or down the order. |

- **Recall Sequence**

To recall an existing sequence, click on  Recall sequence to bring up a list of all existing sequences. Click on the sequence you wish to run.

### Switch Display Settings

This will define how your cameras tab responds when there is an event on the site that sends video and information to the Cameras Tab of the viewing client.

**Note:** The Switch Display Settings that you set here are for the currently open tab only



**Lock Display**

Will prevent the Cameras Tab from displaying any video feeds sent to it by the Event.

**Restore display after**



Will define how long after switching to the Event Cameras the Cameras Tab will return to the original display settings.

**Don't restore display**

Will leave the Cameras Tab on the Event Cameras until an operator, or administrator, resets the display.

**Only switch local cameras**

Will only switch to Event Cameras originating from a local site.

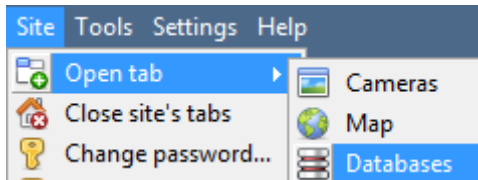
**Note:** you may also either lock  , or unlock  , the currently opened Cameras Tab by clicking on the little lock located at the end of the Timeline on the Review Controls

## 7 Database Tab

In the database tab, you may view both the general databases, and the integration/meta-databases.

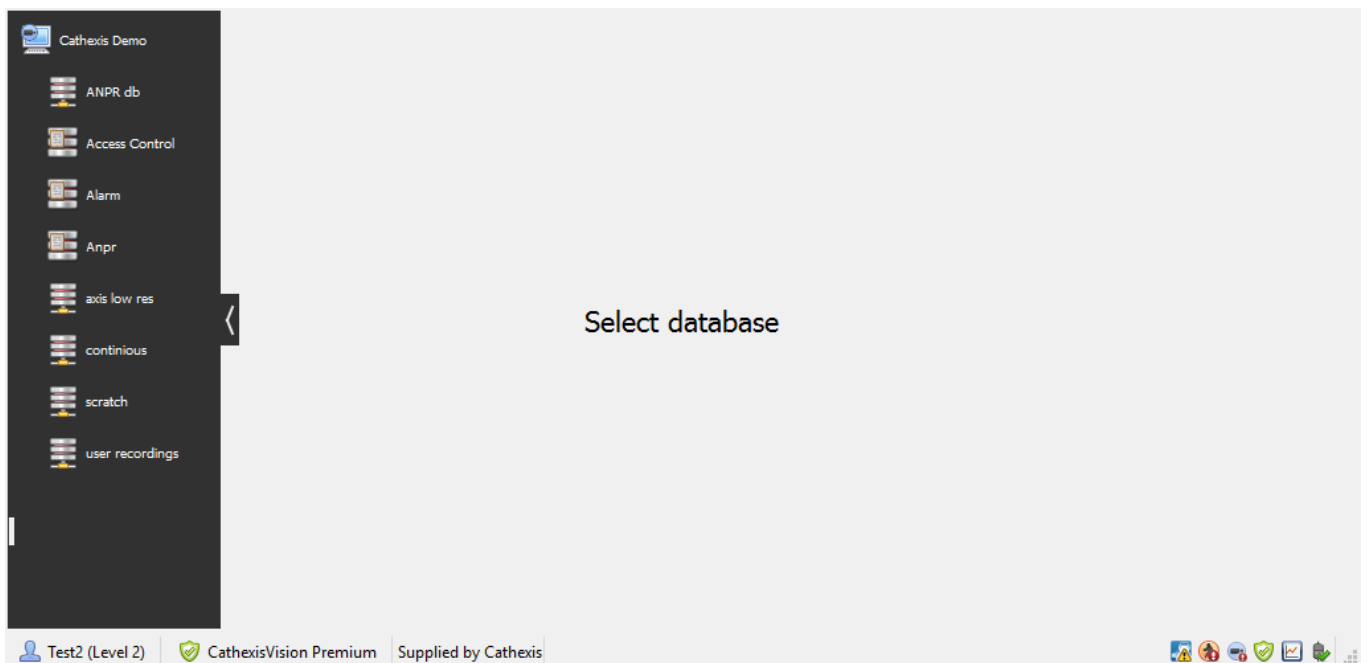
**Note:** Only users with correct access rights will be able to view database entries.

### a. Navigate to Database Tab



To open the CathexisVision Database Tab select **Site→Open Tab → Databases**

Once the tab is open, you will have to select a database to view.




## b. General Database

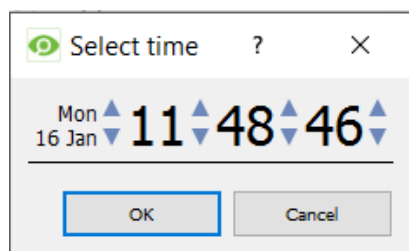
Select one of the general databases to view entries.


If a Cathexis Events Database has been created, it will have the same interface as below.

| Time                | Event                               |
|---------------------|-------------------------------------|
| 2017/01/16 11:25:51 | Axis Q1931-E - Perimeter acti       |
| 2017/01/16 11:26:04 | ANPR Dahua                          |
| 2017/01/16 11:26:22 | Axis Q1931-E - Perimeter acti       |
| 2017/01/16 11:26:23 | ANPR Dahua                          |
| 2017/01/16 11:26:36 | sunel motion                        |
| 2017/01/16 11:26:40 | sunel motion                        |
| 2017/01/16 11:26:56 | Axis Q1931-E - Perimeter acti       |
| 2017/01/16 11:26:57 | Back Parking After Hours            |
| 2017/01/16 11:27:07 | Axis Q1931-E - Perimeter acti       |
| 2017/01/16 11:28:18 | demo room motion                    |
| 2017/01/16 11:28:29 | demo room motion                    |
| 2017/01/16 11:28:43 | ANPR Dahua                          |
| 2017/01/16 11:28:46 | ANPR Dahua                          |
| 2017/01/16 11:28:52 | Axis Q1931-E - Perimeter acti       |
| 2017/01/16 11:29:43 | Back-door Exit - Dankang7082P timer |
| 2017/01/16 11:29:50 | ANPR Dahua                          |
| 2017/01/16 11:30:12 | Axis Q1931-E - Perimeter acti       |
| 2017/01/16 11:30:19 | ANPR Dahua                          |
| 2017/01/16 11:30:21 | Back Parking After Hours            |
| 2017/01/16 11:30:37 | Front PTZ - Truvision timer         |
| 2017/01/16 11:30:37 | Axis F41 timer                      |
| 2017/01/16 11:30:37 | Entrance timer                      |
| 2017/01/16 11:30:38 | Vivotek 8332 Parking Cat timer      |
| 2017/01/16 11:30:38 | Back parking - Vivotek timer        |

  
Entrance

### Locate an Entry



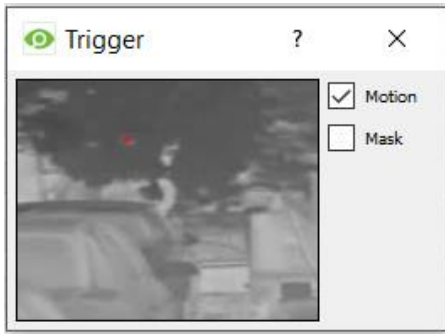
- In the Database Tab, click on the  icon, located in the bottom right hand corner.
- Select the date and time:


The list of database entries will have been pared down to beginning with the event closest to the time you selected, and a few subsequent entries.

### Replay an Associated Recording

CathexisVision is capable of associating video footage and other data with database entries. When reviewing associated footage there are two options. The user may review the video clip associated, or they may view the video frame at the point that the event was triggered.

- ***Review Trigger Frame***




To review the trigger frame, left click on an entry, and if the  icon is present in the panel below, double-click on it. This will bring up the dialogue to the left.

**Motion** will show where the motion occurred in the image.

**Mask** will show what areas of the image are covered by the algorithm which triggered the database entry.

- **Review Event Video**

To review the video associated with a database entry, either double click on that entry, or on the  icon in the entry's details.

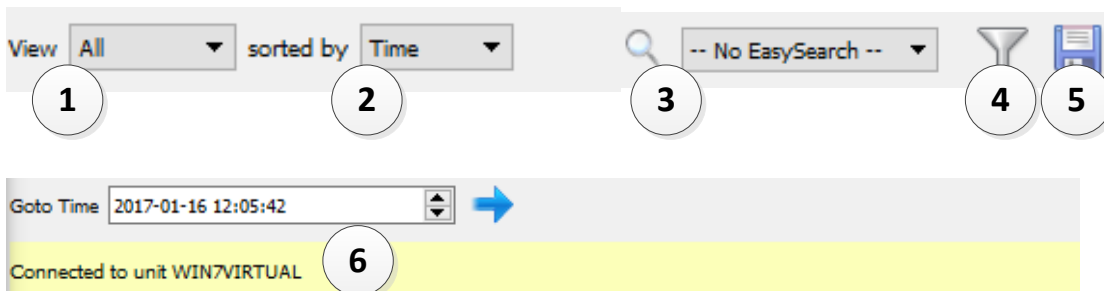
- **CathexisVision Controls**



CathexisVision database review uses the same control schema as the timeline review used in the **Cameras Tab** → **Review Controls** section.





## c. Integration/Metadatabase

Select the relevant integration/Metadatabase.


### Interface

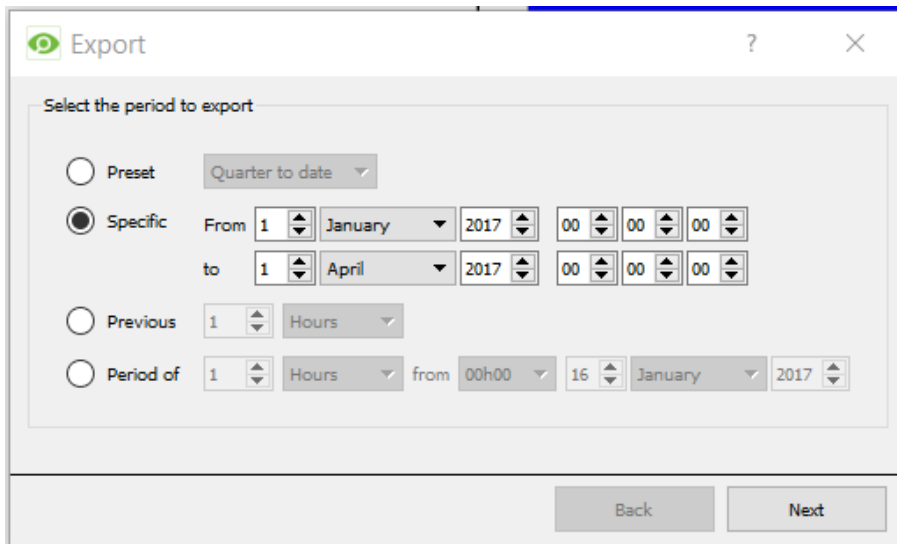


|   |   |
|---|---|
| ① <b>View</b>   | The user may change the way that the database is presented. Some integration databases have multiple view options.  |
| ② <b>Sorted By</b>  | Events can only be sorted by certain parameters.  |
| ③ <b>Easy Search</b>  | The easy search option lets the user quickly search the database.   |
| ④ <b>Filter</b>  | <p>Filter offers a more advanced manner of sorting information in the Integration Database table.</p> <p>Once the filters dialogue is open, the following filter options are available:</p> <ol style="list-style-type: none"> <li>1. To <b>enable</b> filters check this box: <input checked="" type="checkbox"/> Enable filters</li> <li>2. To <b>add</b> a new filter click on .</li> </ol> |

|                     |  |
|---------------------|--|
|                     | <p>3. To <b>delete</b> an added filter click on .</p> <p>It is possible to filter the same parameters more than once.</p> <p>To change a filter click on the blue hyperlinked text. (For example, click on <a href="#">Timestamp</a> to change the filter from Timestamp, to any of the other available options.)</p> <p>The filter options in this integration are:</p> <div data-bbox="395 443 651 689" style="border: 1px solid #ccc; padding: 5px; margin: 10px 0;"> <b>Transaction</b><br/> Time<br/> Event Type<br/> Object ID<br/> Object Name<br/> Notification </div> <p><b>Note:</b></p> <ol style="list-style-type: none"> <li>Multiple filters may be run simultaneously.</li> <li>The filter icon  will change to  when filters are active.</li> </ol> |
| ⑤ <b>Export</b>     | Generate meta-database reports in PDF or CSV format. See below.  |
| ⑥ <b>Go to Time</b> | This navigates to a specific point in time, down to the second. To navigate to a timestamp set the time using the time and date boxes, and then click on the  icon.  |

- *Generate Meta-database Reports*

Click the  icon to open the Export window.



Select the **Period** to export, and enter the required details.

Click **Next**.




Select the **Format** to export the report in; either CSV or PDF.

See below for the two options.

## Export CSV

Select CSV **Format**.


Edit the **Filename** by either entering it straight into text field (replacing **report.csv**), or click the  to choose a new save folder and filename.

## Export PDF

Select PDF **Format**.


Give the PDF a **Heading**.

Select either Landscape or Portrait **Orientation** of the PDF.

Edit the **Filename** by either entering it straight into text field (replacing **report.csv**), or click the  to choose a new save folder and filename.

## [Viewing an Entry's Associated Recording](#)

This integration uses the new video option where the video player is embedded in the database view. This player uses the same timeline features as the CathexisVision cameras tab.

To view an associated recording, simply left-click on a database entry which has the  icon in the **Links** column. Then click play in the video player.


| Timestamp           | Device Name        | Event Type         | Door Name   | User Name       | Links |
|---------------------|--------------------|--------------------|-------------|-----------------|-------|
| 2017-01-13 07:48:08 | DBN_Access AP Lite | Allowed Normal In  | Front Entry | Jason Marshall  |       |
| 2017-01-13 07:54:32 | DBN_Access AP Lite | Allowed Normal In  | Front Entry | Linda David     |       |
| 2017-01-13 08:03:43 | DBN_Access AP Lite | Allowed Normal In  | Front Entry | Gregory Jones   |       |
| 2017-01-13 08:05:18 | DBN_Access AP Lite | Allowed Normal In  | Front Entry | Nicole David    |       |
| 2017-01-13 08:06:23 | DBN_Access AP Lite | Allowed Normal Out | Front Exit  | Gregory Jones   |       |
| 2017-01-13 08:13:05 | DBN_Access AP Lite | Allowed Normal In  | Front Entry | Gregory Jones   |       |
| 2017-01-13 08:16:14 | DBN_Access AP Lite | Allowed Normal In  | Front Entry | Salvan Naidoo   |       |
| 2017-01-13 10:11:31 | DBN_Access AP Lite | RTE                | Front Entry |                 |       |
| 2017-01-13 10:21:22 | DBN_Access AP Lite | RTE                | Front Entry |                 |       |
| 2017-01-13 11:10:06 | DBN_Access AP Lite | Allowed Normal In  | Front Entry | Nicole David    |       |
| 2017-01-13 11:12:15 | DBN_Access AP Lite | RTE                | Front Entry |                 |       |
| 2017-01-13 12:03:09 | DBN_Access AP Lite | Allowed Normal Out | Front Exit  | Rachel Solomon  |       |
| 2017-01-13 12:14:23 | DBN_Access AP Lite | Allowed Normal In  | Front Entry | Rachel Solomon  |       |
| 2017-01-13 12:25:29 | DBN_Access AP Lite | Allowed Normal Out | Front Exit  | Jason Marshall  |       |
| 2017-01-13 13:26:18 | DBN_Access AP Lite | Allowed Normal In  | Front Entry | Salvan Naidoo   |       |
| 2017-01-13 13:39:52 | DBN_Access AP Lite | Allowed Normal In  | Front Entry | Daryl B         |       |
| 2017-01-13 16:09:05 | DBN_Access AP Lite | RTE                | Front Entry |                 |       |
| 2017-01-13 16:24:11 | DBN_Access AP Lite | Allowed Normal Out | Front Exit  | Linda David     |       |
| 2017-01-16 07:04:49 | DBN_Access AP Lite | Allowed Normal In  | Front Entry | Phelika Thavir  |       |
| 2017-01-16 07:09:05 | DBN_Access AP Lite | Allowed Normal In  | Front Entry | Brad du Plessis |       |
| 2017-01-16 07:22:07 | DBN_Access AP Lite | Allowed Normal In  | Front Entry | Ross Soughin    |       |
| 2017-01-16 07:25:26 | DBN_Access AP Lite | Allowed Normal In  | Front Entry | Leurika Henning |       |
| 2017-01-16 07:48:48 | DBN_Access AP Lite | Allowed Normal Out | Front Exit  | Fahrad Bux      |       |
| 2017-01-16 07:49:28 | DBN_Access AP Lite | Allowed Normal In  | Front Entry | Gregory Jones   |       |
| 2017-01-16 07:57:04 | DBN_Access AP Lite | Allowed Normal In  | Front Entry | Linda David     |       |
| 2017-01-16 08:10:21 | DBN_Access AP Lite | Allowed Normal In  | Front Entry | Nicole David    |       |
| 2017-01-16 08:17:58 | DBN_Access AP Lite | Allowed Normal In  | Front Entry | Jason Marshall  |       |
| 2017-01-16 08:36:22 | DBN_Access AP Lite | Allowed Normal In  | Front Entry | Jan McInnes     |       |
| 2017-01-16 08:36:54 | DBN_Access AP Lite | Allowed Normal In  | Front Entry | Salvan Naidoo   |       |
| 2017-01-16 08:37:55 | DBN_Access AP Lite | Allowed Normal In  | Front Entry | Matthew Fincham |       |
| 2017-01-16 11:02:12 | DBN_Access AP Lite | Allowed Normal Out | Front Exit  | Nicole David    |       |
| 2017-01-16 11:13:50 | DBN_Access AP Lite | Allowed Normal In  | Front Entry | Nicole David    |       |
| 2017-01-16 11:13:53 | DBN_Access AP Lite | Allowed Normal In  | Front Entry | Nicole David    |       |
| 2017-01-16 12:06:19 | DBN_Access AP Lite | Unit Power up      | Rear Entry  |                 |       |
| 2017-01-16 12:06:19 | DBN_Access AP Lite | Unit Power up      | Rear Exit   |                 |       |
| 2017-01-16 12:06:20 | DBN_Access AP Lite | Unit Power up      | Front Exit  |                 |       |
| 2017-01-16 12:12:46 | DBN_Access AP Lite | Allowed Normal Out | Rear Exit   | Rachel Solomon  |       |
| 2017-01-16 12:12:49 | DBN_Access AP Lite | Allowed Normal Out | Rear Entry  | Rachel Solomon  |       |

Timestamp 2017-01-13 12:14:23

Event Type Allowed Normal In

Door Name Front Entry

User Name Rachel Solomon



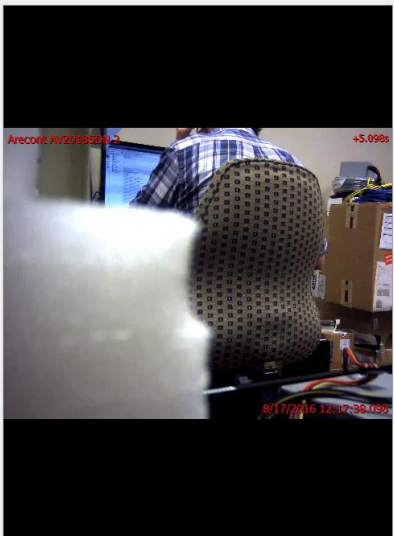
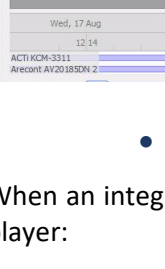
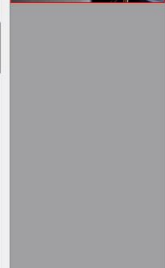

Fri, 13 Jan

12:10 12:12 12:14 12:16 12:18

Front Door - Canon S800

13 Jan 12:14:25

• *Reviewing Multiple Cameras*



Wed, 17 Aug

12:14 12:16 12:18 12:20 12:22

ACTI KCM-3311

Arecont AV2018SON 2

If multiple cameras were added to the recorded object during the integration setup, these are displayed on the left of the video player screen as thumbnails.

Select a camera thumbnail to review it.


• *Device Event Metadata*

When an integration database entry is selected, its event information will be displayed on the right of the video player:

**Timestamp** 2017-01-13 12:14:23  
**Event Type** Allowed Normal In  
**Door Name** Front Entry  
**User Name** Rachel Solomon

### *Archive Selected Database Recordings*



Archiving video from the database follows the same process described above, in the **Archiving** section of this document. Note, however that when in the database tab, the archive button icon changes:  .

**Note:** When archiving a video feed that has **Privacy Zones** enabled the privacy zones will appear/not appear in the archived video, depending on whether they are enabled in the feed at the time of archiving. (They may be enabled/disabled by right-clicking on the feed of video being reviewed via the database tab.)

## d. Pre-2015 Databases

Pre-2015 databases will allow for filtering when viewed from later CathexisVision clients. There are three major filter types: **Filters**, **Field Constraints**, and **Time Constraints**.

### Filters

**Note:** All filtering is based on AND/OR options.

**AND** If you apply Filter A AND Filter B, the result will contain only those Events in which both Filter A and Filter B are true.

**OR** If you apply Filter A OR Filter B, the result will contain any Event in which Filter A is true, plus any Event in which Filter B is true.

Note however that within a single filter you cannot use both functions – so you cannot apply “Filter A AND Filter B OR Filter C”. (It must either be all AND filters or all OR filters.)

- **Add/Remove a Filter**

Click on  to add a filter. Click on  to remove a filter.




- **Enable a Filter**

☒ Filters ☒ Field constraints ☒ Time constraints In order to have any of the Filters active you need to check the relevant filter box at the bottom of the filters dialogue.

**Note:** you may further constrain results, by making **Filters** and **Field Constraints** AND/OR dependant. For example you may have a search that requires that the Event must match filters or field constraints, or you may have it set so that the Event must match filters and field constraints.

- **Filters Tab**

|   |  |
|---|--|
| If event <a href="#">has camera</a><br><a href="#">Camera n</a> | These are the primary sorting lists. The blue underlined style indicates that they are options. Click to see a pop-up list of the options. You can choose from the following:<br><a href="#">Has camera</a> > (then choose camera from <a href="#">Camera Name</a> dropdown list)<br><a href="#">Has audio</a> > (then choose audio input from <a href="#">Audio Input Name</a> dropdown list) <a href="#">Is tagged</a> |
|   | This is a logical parameter for multiple filters. It may be “ <a href="#">and</a> ” or “ <a href="#">or</a> ”. It only appears if you have more than one filter. By default it is “ <a href="#">and</a> ”.   |

|                   |  |
|-------------------|--|
| <p><u>and</u></p> | <p><u>and</u></p> <p><b>The filter results must match <i>all</i> of the filters.</b> For example, if we have</p> <p> If event <u>is tagged</u> <u>and</u></p> <p> If event <u>has camera</u> <u>Cat Tech Sliding (Zone 7&amp;8)</u> <u>and</u></p> <p> If event <u>has audio</u> <u>Cat Tech Sliding (Zone 7&amp;8)</u></p> <p>Then the result is only those Events that are Tagged, that also include Camera 5 content, and that also include Audio Input 3 content – probably a short list.</p> |
|-------------------|--|

The filter results must match *any* of the filters. For example, if we have



or

Then the result is all events with Camera 5 content **plus** all Events that are tagged **plus** all events that have Audio Input 3 content – probably a long list

- **Field Constraints Tab**

This tab is only visible if you have a streaming text data application installed, in which case you see these text data field filters. They include the fields that have been identified in the text data streaming setup. i.e. on this tab you will see the fields that you have customised for the text data application.

Examples of text data are the data streamed from till transactions (transaction number, purchase amount, time, number of purchased items, etc.), and data streamed from Access Control applications (name, time, employee number, etc.). This data is stored as different “fields”. It is possible to constrain filtered results based on various decisions with these fields.

The principle remains the same as the Filters tab, where you create a filter and then change its parameters using dropdown options (see above). The nature of these parameters depends entirely on your custom application.

- **Time Constraint Tab**

There are a number of different ways to constrain the time these are:

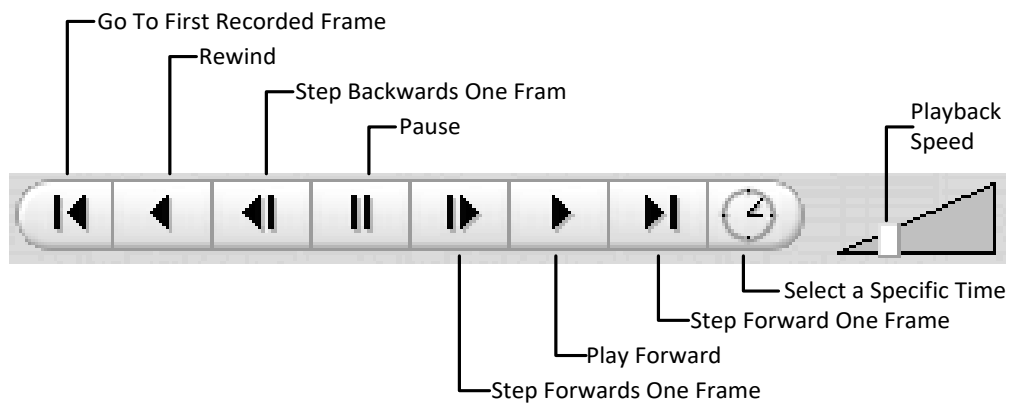
A dropdown menu with the following options: 'equal to', 'greater than', 'greater than or equal to', 'less than', 'less than or equal to', 'between (inclusive)', and 'between (exclusive)'.

**Note:** to modify the times click on the Date/Time hyperlink and enter in your parameters in the dialogue that pops up.

### *Pre-2015 Playback Controls*



When reviewing video from pre-CathexisVision 2015 sites the controls will be as follows:

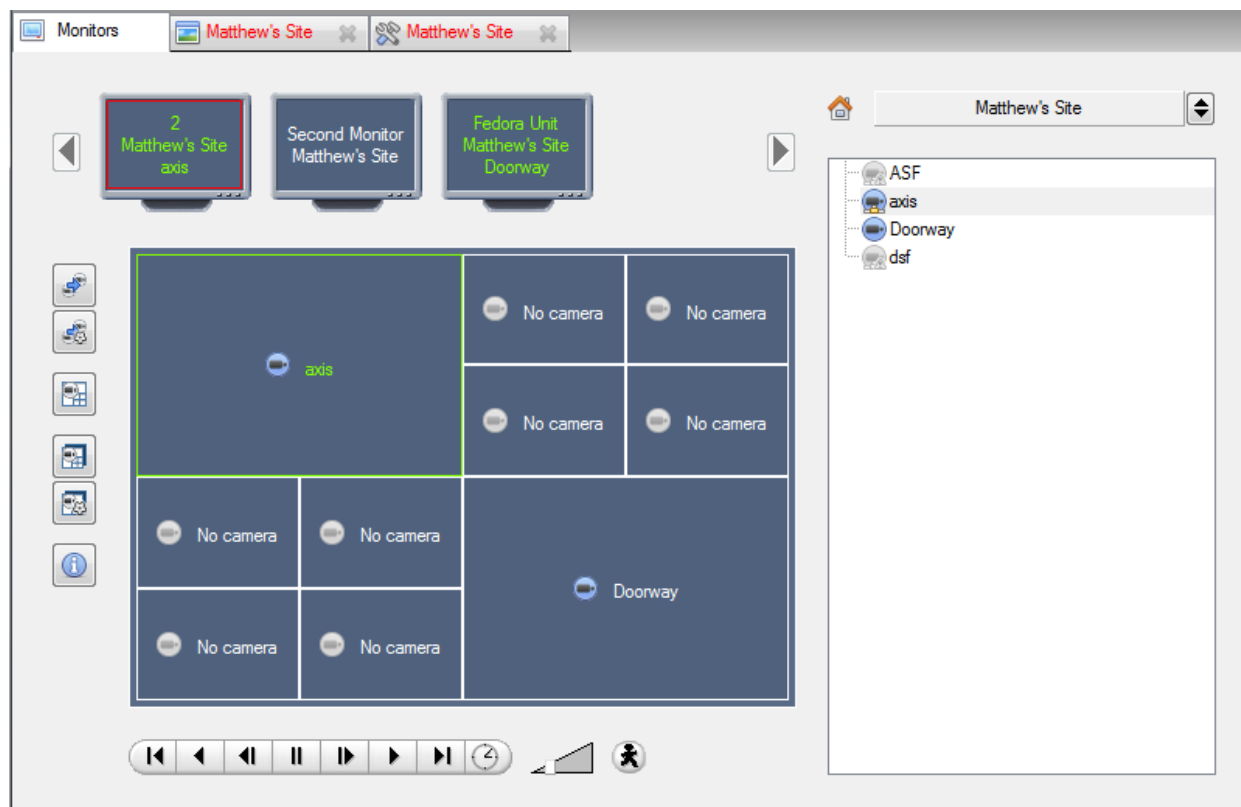


## 8 Monitors Tab

The monitors tab is a tab that gives you full control over the Video Wall. Here you can change the layout, and define camera Sequences, and salvos.

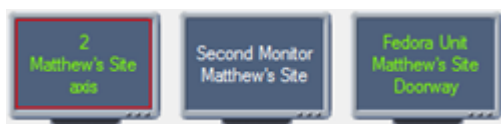
Because this tab deals only with the configuration of the Video Wall, you will not see any video playing on the interface. You will see the names of cameras where they are placed in the layout.

**The next section deals with the Video Wall Software**, in which the settings configured here will be reflected.



### Open a Site on a Screen

The list of monitors that you see will be representative of the number of monitors that have been added to servers on the site.



To Open a monitor from a site, select one of the available Monitors. Then click the Sites list:




Then select your site.

The Monitor with a red border will be the Monitor whose camera Layout is displayed below it.

### Layout

A layout defines how the cameras appear on the screen. This includes which cameras are present, to how much of the screen an individual camera takes up.


## Recall a Layout

To bring up a particular layout on a screen, click on the  icon, and select the layout name that you desire.

## Sequence

A Sequence will run a set of cameras, in single camera panel.


**Run a Sequence** - Click on a camera panel.

- Click on 
- Select the relevant Sequence from the drop down menu.

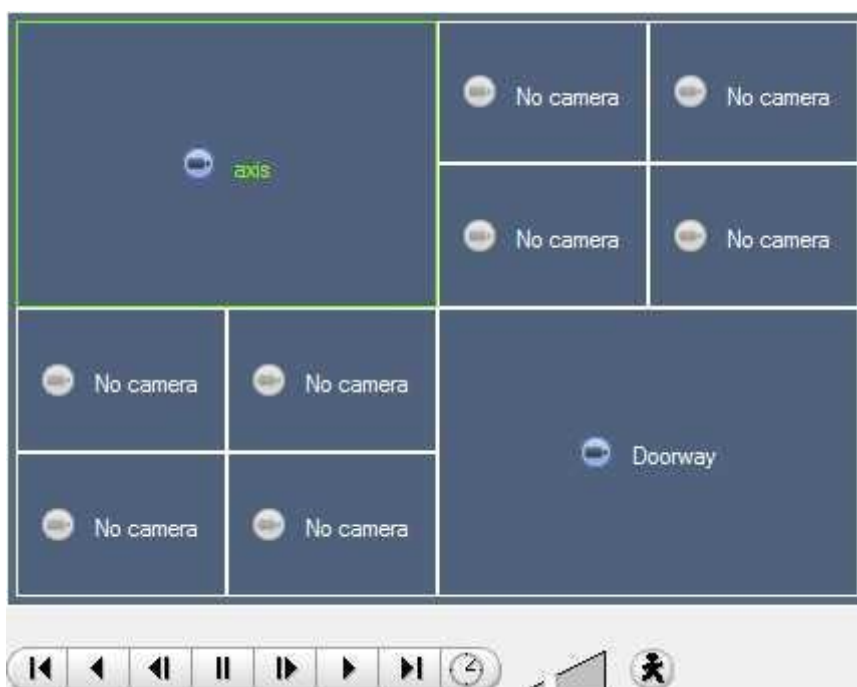
## Salvo

A Salvo is a set of Layouts. This means that the Layout of cameras on the monitor will change, running through a set order, using the pre-defined Layouts.

**Run a Salvo** - Click on a Layout panel.


- Click on 
- Select the relevant Salvo from the drop down menu.

## Virtual Cameras interface



The virtual cameras interface is the interface where you

- See the Layout that the cameras will take on the Monitor that you have selected.
- See what cameras are in which panels.
- May control the overlays on each camera.
- And use the Playback controls to review video on the Monitor.

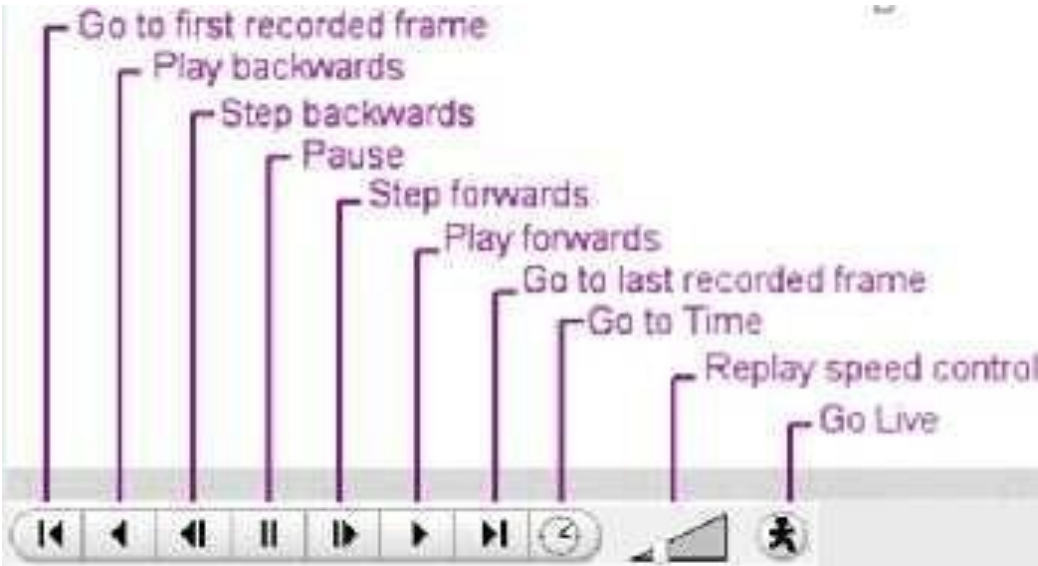
|   |   |
|---|---|
|  | <p><b>Note:</b> When a camera has been selected its border, and camera name, will become Green.</p> |
|---|---|

- *Individual Panel Settings*

To change the settings of an individual panel middle-click on the panel, this will bring up the following menu:

|                   |   |
|-------------------|---|
| Set no camera     | <b>Set No Camera</b> will make this panel blank   |
| Review camera     | This will bring up the recordings of the selected camera. For information on reviewing the camera see the section below, on Review Controls |
| Next video format | This will cycle through the available video feeds that are available on the selected camera.  |

- *Review Controls*





## 9 Audio procedures



A microphone and speaker on the menu bar (at the top right of the screen) represent your two local audio hardware resources, local audio input and local audio output.

These two icons represent the *state* of your local microphone and speaker - when a resource is being used, its icon is bright **green** in colour, and when the resource is inactive, and its icon is **grey**.

You can look at these icons to see the current state of audio interaction, and you can run your mouse cursor over a **green** icon for information on the activity. However, the actual control of audio is from icons in the Resource Panel and Live remote cameras:

- ***To Listen to a Remote Site by Means of the Resource Panel***

Open the Resource panel for the remote site, and double-click the remote microphone that you wish to listen to. Your local speaker goes green, indicating that your listening is in progress. If you move the cursor over the speaker, you will see a tool-tip describing the remote audio input that is being listened to. You should hear sound from the remote site.

- ***To Stop Listening to a Remote Site by Means of the Resource Panel***

Right click your local speaker, and choose **Stop**.

Your local speaker goes grey, indicating that your listening is no longer in progress.

- ***To Listen to Remote Live MPEG by Means of the Middle-click Camera Menu***

A Live remote MPEG camera with audio will display a small microphone icon before the name on the camera display:

Middle-click the camera image, and select **Listen** from the menu.

You will see the icon change from grey to green, to indicate activity. You should also hear sound on your local speaker

- ***To Stop Listening to Remote Live MPEG by Means of the Middle-click Camera Menu***

Middle-click the camera image, and select **Stop listening** from the menu.

You will see the icon change from green to grey, to indicate inactivity. Sound should stop on your local speaker

- ***To Speak to a Remote Site***

Open the Resource panel for the remote site, and double-click the remote speaker that you wish to speak through.

Your local microphone goes green, indicating that your speaking is in progress.

- ***To Stop Speaking to a Remote Site***

Right click your local microphone, and choose **Stop call**.

Your local microphone goes grey, indicating that your speaking is no longer in progress.





## 10 Other procedures


- ***To Switch a Relay Output (e.g. unlock a door, activate a siren)***

Relay outputs can also be switched from the Map (right-click>Set Output / Clear Output).

The action performed when double-clicking a relay in the CathexisVision resource panel is configurable. The setting is in CathexisVision menu->Settings->General

- 1  Left double-click to toggle the relay between set and clear, **or** Right-click the relay.
  - A popup menu offers you the choice of Set output (activate it) or Pulse Output.
  - Select an option and click OK.
  - The relay changes state, and the output changes colour . While active the play/pause image in the middle of the Output icon will change from black to white.
- 2 To clear a set relay, left double-click or right-click >Clear output

- ***To Pulse a Relay Output (e.g. unlock a door for a defined 4-second period)***

Relay outputs can also be pulsed from the Map (right-click>Pulse Output).  Right-click the output and select **Pulse output**.

> This pulses the output *for the time that has been set at the unit*. While the output is pulsed the play/pause image in the middle of the Output icon will change from black to white, when it resets it will return to black.

- ***To Manually Trigger a Site Action***



Right-click the Site Action in the Resources Pane and then click Execute.

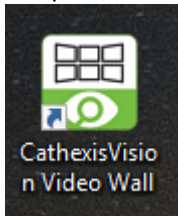
**Note:** This requires 1) Site action setup 2) Assignment of site action to resources pane 3) Appropriate access rights.

## 11 Video Wall (Software)

The Video Wall software is automatically installed when installing CathexisVision. A shortcut to the Video Wall is created by default on the desktop.

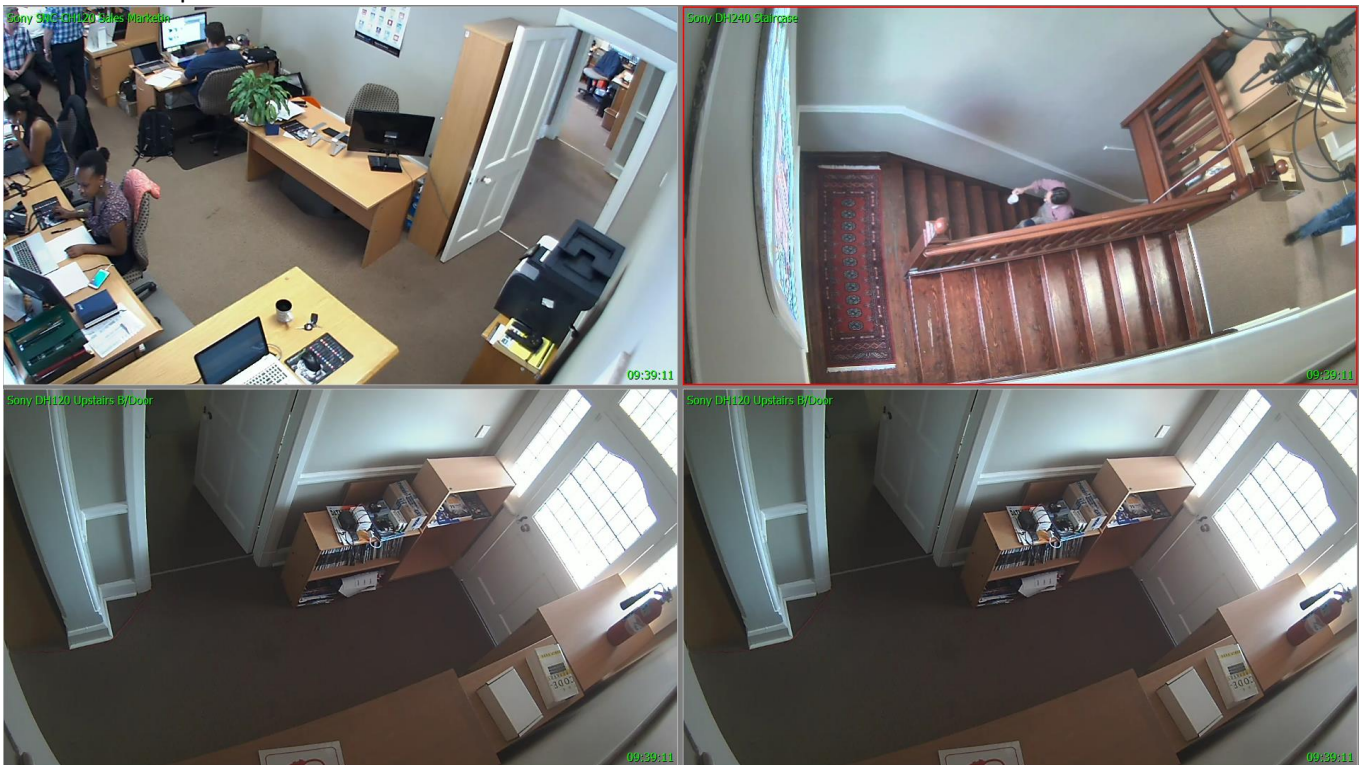
### a. Open Video Wall

To open the Video Wall, double click the Video Wall shortcut.



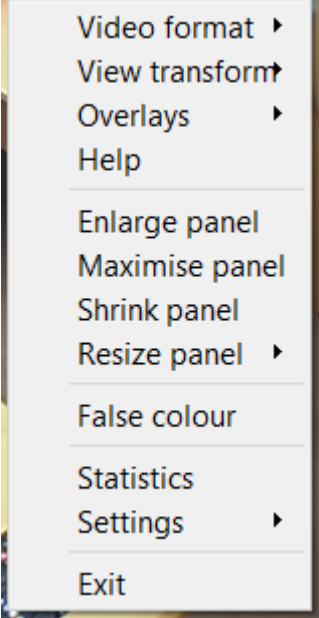
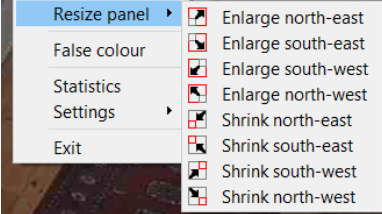
### b. Interface

Panels configured in the Monitors Tab of CathexisVision (above section), will be immediately visible when the Video Wall is opened:



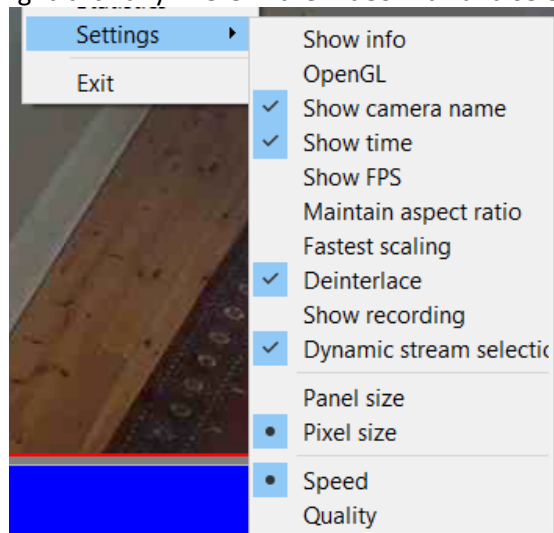
### c. Right-Click

Right-clicking anywhere in the Video Wall will bring up the menu below.

|   |                         |  |
|---|-------------------------|--|
|  | <b>Video format →</b>   | Select video format for camera in selected panel.  |
|   | <b>View transform →</b> | Transform video for camera in selected panel.  |
|   | <b>Overlays →</b>       | Select overlay to display from available overlays, enable default overlays, or disable overlays for the selected panel.  |
|   | <b>Help</b>             | Display help screen for basic camera controls.   |
|   | <b>Enlarge panel</b>    | Enlarge selected panel by one panel size.  |
|   | <b>Maximise panel</b>   | Make selected panel fullscreen.  |
|   | <b>Shrink panel</b>     | Shrink selected panel by one panel size.   |
|   | <b>Resize panel →</b>   | Depending on current size of panel, resize and orientate the selected panel:<br> |
|   | <b>False colour</b>     | Enable false colour on selected panel.   |
|   | <b>Statistics</b>       | View overall statistics for Video Wall.  |
|   | <b>Settings →</b>       | Configure settings for all panels on Video Wall. See below for details.  |
|   | <b>Exit</b>             | Close the Video Wall.  |

## Settings

Right-click anywhere in the Video Wall and select **Settings**.



|                                 |  |
|---------------------------------|--|
| <b>Show info</b>                | Will display information about all panels as an Overlay.   |
| <b>OpenGL</b>                   | Uses OpenGL.   |
| <b>Show camera name</b>         | Displays camera names for all panels.  |
| <b>Show time</b>                | Displays time for all panels.  |
| <b>Show FPS</b>                 | Displays frames per second for all panels.   |
| <b>Maintain aspect ratio</b>    | Keeps aspect ratio of cameras for all panels.  |
| <b>Fastest scaling</b>          | Uses fastest scaling for all panels (non-OpenGL setting).  |
| <b>Deinterlace</b>              | Uses deinterlace for all panels.   |
| <b>Show recording</b>           | Shows recording icon in panel for all cameras which are recording.   |
| <b>Dynamic stream selection</b> | Enabled by default. This selects the correct stream based on the display size/resolution when a camera has multiple streams. |
| <b>Panel size</b>               | Select whether live video resolution is based on <b>Panel size</b> or <b>Pixel size</b> .                                    |
| <b>Pixel size</b>               |  |
| <b>Speed</b>                    |  |

## Quality

Select whether OpenGL settings should optimize fonts for **Speed** or **Quality**.

## 12 Conclusion

Please remember that this appnote was designed to deal specifically with this feature. For further information about the CathexisVision software please consult the main manual (<http://cathexisvideo.com/>).

For support please contact [support@cat.co.za](mailto:support@cat.co.za)