

CathexisVision 2024 Operator's Manual



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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.



1. Introduction

This *Operator's Manual* explains the **operating procedures** a user might perform, when using the CathexisVision client software. Examples of operating procedures include zooming on a PTZ camera, or reviewing previously recorded footage.

For information on **setups**, refer to the *CathexisVision Setup Manual*. For example, the Setup Manual explains how to add and set up a new camera, or add a motion detection algorithm to a camera.

1.1 Supported Languages

The CathexisVision GUI supports the following languages:

- Arabic
- Croatian
- English
- French
- German
- Hungarian
- Italian
- Portuguese
- Russian
- Spanish
- Ukrainian

To change the language of the GUI, follow Settings Menu / General / Language.

Consult the CathexisVision Setup Manual for a more detailed description of this menu.

A NOTE ON CAMERA CHANNELS

The CathexisVision software packages have **limits on camera channels**. A multi-sensor camera is physically a single device (camera) but it requires a camera channel for each one of the internal cameras. The same applies to an encoder: a 16-channel encoder will account for 16 camera channels on the CathexisVision software, even though it is a single device. Even when a camera or device only uses a single IP license, the camera channel limit will still apply.



1.2 Product Interoperability and Support

Cathexis Technologies releases a new major version of the CathexisVision software annually. The software releases are named according to the year that they are in use (for example, CathexisVision 2017). The major software versions are usually released at the start of the third quarter of the preceding year. (For example, CathexisVision 2025 could be released in the third quarter of 2024.)

For a complete list of currently available licenses please contact your Cathexis representative or consult the latest pricelist. For more information on CathexisVision licensing, refer to the *CathexisVision Software Product Description and License Document*.

Please note the following regarding product interoperability and support:

1.2.1 Product Interoperability

- All servers on a site should have the same product version installed (for example, CathexisVision 2024). Different product versions on the same site are not supported.
- The CathexisVision user interface will be able to connect to and view software running any service pack of the same version.
- The intention is for the user interface to be able to connect to a product one version earlier (such as CathexisVision 2024 connecting to CathexisVision 2023) but some features may not be available.
- The user interface may be able to connect to and view earlier products (2 or more versions earlier), but there are no guarantees some or all features may not be functional.

1.2.2 Product Support

- A product/software version will be supported with software updates until the end of the next calendar year. For example, CathexisVision 2023 will be supported until December 2024 (in 2023 and 2024).
- Product support during the first year will include periodic software service packs, containing bug fixes, minor features, and additional integrations and camera drivers.
- Product support during the second year will include periodic service packs, containing critical bug fixes and additional integrations and camera drivers.

USEFUL LINKS

To view **tutorial videos** on CathexisVision setup, visit https://cathexisvideo.com/resources/videos

Find answers to Cathexis Frequently Asked Questions: https://cathexis.crisp.help/en/?1557129162258



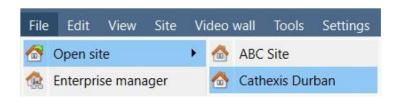
2. General Interface

The CathexisVision interface changes depending on the tab that is opened. However, some elements of the interface are common across all tabs.

2.1 Connect and Log in to a Site

2.1.1 Open Site

The CathexisVision Client is not tied to any particular site. The user must first open a connection to the site they wish to view.



- → Click on File / Open Site to open a list of all sites that have been added to the viewing PC.
- → Select the site to view.

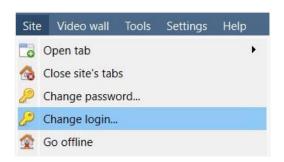
2.1.2 Login



After selecting a site, the user can enter login credentials.

2.1.3 Change Login

To change login details, go to **Site / Change login**... and enter the new details when prompted.







2.2 Minimising the GUI

2.2.1 Windows

Users are advised not to minimise the CathexisVision GUI in Windows. Microsoft Windows does not allow applications to interrupt what the user is currently doing. Therefore, if an event occurs when the application is minimised, a notification will only pop up if no other active application is running. The taskbar will flash, indicating that there is a message in CathexisVision. However, the popup will not appear on top of other open applications.

2.2.2 Linux

In Linux, the event notification will appear on top of other applications.

2.3 Site Tabs

These are the tabs for one or multiple sites. The tabs show the site name, and the icons show the type of tab.



2.3.1 Open a Tab

Option 1: File Menu / Site / Open Tab.

Option 2: Right-click on open site tab / Open Tab.

Click on this icon to close a tab.

2.3.2 Tab Types





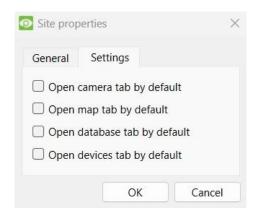
2.3.3 Connection Status

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



2.3.4 Default Open Tabs

Each site can be 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.



The Site Properties window will open.

- → Go to the **Settings** tab.
- → Select the tabs to open by default.
- → Click **OK**.

2.4 Menu Bar

The CathexisVision menu bar is present in all site tabs. However, some site tabs show additional menu options.

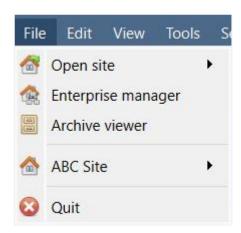


This section will detail the different options available to the user through the menu bar of the **CathexisVision GUI.**



2.4.1 File Menu

The CathexisVision File Menu does not change when different site tabs are opened.



Open Site: This will open a list of the sites that have been added to this unit.

Enterprise Manager: The enterprise manager is where all site management occurs. Users can add, edit or remove sites, and create site folders. In the Enterprise Manager, users can assign Resource Sites.

Archive Viewer: This will open up the Archive Tab. If there is any archived video, it can be viewed here.

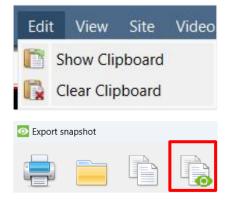
Site Name: This will open site and setup information.

Open Sites: The site names (shown under Archive Viewer and above Quit) represent the sites that currently have connection tabs open in the GUI.

2.4.2 Edit Menu

In general, the **Edit** menu only displays these options: **Show Clipboard** or **Clear Clipboard**. When the Enterprise Manager is open, there will be a range of different options.

2.4.2.1 General Edit Menu

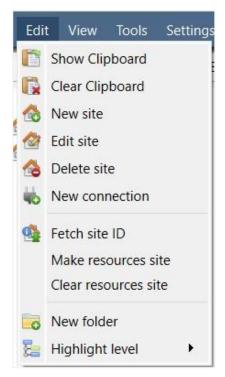


The clipboard contains information from when a snapshot is captured from one of the cameras in the Camera Tab.

The snapshot will only show in the clipboard dialogue box will only show if it is saved via **Copy to application clipboard**.



2.4.2.2 Enterprise Manager Edit Menu



Show Clipboard: This brings up the clipboard dialogue box showing and saved snapshots.

Clear Clipboard: This clears the clipboard dialogue box of saved

snapshots.

New site: Add a new site. **Edit site:** Edit an existing site.

Delete site: Delete an existing site.

New connection: Add a new site connection.

Fetch site ID: This gives the created site an ID. A site ID is essential for a site to run. Perform this after creating the site

and adding unit connections to it.

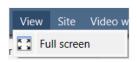
Make resources site: This tells the GUI to set the selected site the as the site to be used for videowall monitor control.

Clear resources site: This tells the GUI to no longer use any

site for videowall monitor control. **New folder:** Create a new folder.

Highlight level: This allows users to enable highlight levels. This highlights only those sites that are accessible to certain levels.

2.4.3 View Menu

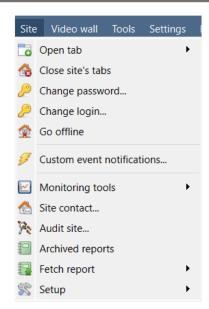


The view menu gives the option change the GUI view to and from Full screen.

2.4.4 Site Menu

The Site menu will relate to the currently viewed Site. To open a new Site, follow **File / Open Site / Site Name.** This same menu can also be found from a list of all currently open Sites under the **File Menu**.





Open tab: will open any available tabs (Cameras, Database, Map).

Close site's tabs: will close all open tabs for this Site.

Change password...: will change the password.

Change login...: will change the user who is logged in.

Custom event notifications...: will set specific event notifications.

Monitoring tools: lays out the Forensic Tool, Stats, and Site Overview.

Site contact...: will show the name and details of the Contact person for the Site.

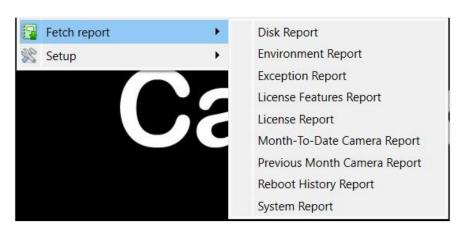
Audit site...: allows auditing of SiteName details.

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.

2.4.4.1 Fetch Report



This menu allows a full report to be pulled for the entire site.

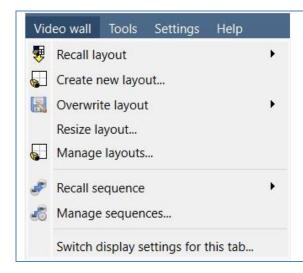
Select to pull a template or pull up a quick report based on the list of variables below the border line.

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.



2.4.5 Video Wall Menu

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

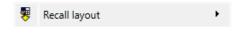


A **Layout** defines how the cameras appear on the screen, in the Cameras Tab. This includes which cameras are shown, and how much space they take up on the screen.

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

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

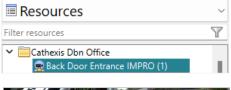
2.4.5.1 Recall a Layout



Click on this to bring up a list of existing layouts. Select the desired layout name.

2.4.5.2 Create new Layout

To create a new layout:



→ Select the desired cameras from the Resources list.



Create new layout...

→ Organise cameras on the screen as desired:

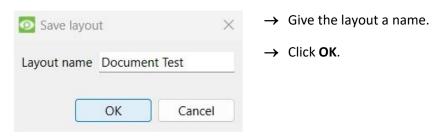
To expand a panel, double-left click on it.

To reduce a panel, right-click and select **shrink panel**.

To switch panels, right-click the current display panel and right-click again in the desired new panel.

Follow the file path: Video wall / Create new layout...





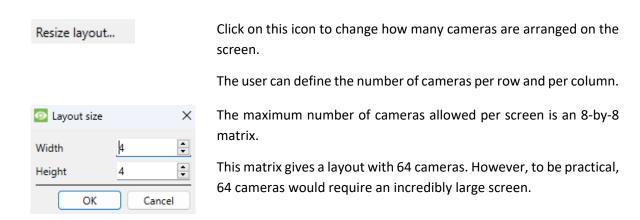
Note: In the Monitors Tab, the user can use layouts created in the Cameras Tab, and vice versa.

2.4.5.3 Overwrite Layout

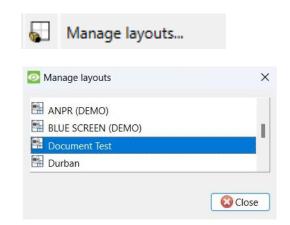
■ Overwrite Click this icon to display a list of layouts.

Select a layout to overwrite it with the current panel organisation.

2.4.5.4 Resize Layout



2.4.5.5 Manage Layouts

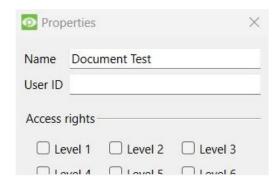


Click **Manage layouts** to bring up the list of existing Layouts to manage.

From the management list, either delete the Layout or enter the Layout Properties window.

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



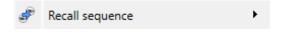


In the **Properties** window, it is possible to change the Name, and User ID, as well as the User Access Level required to view or edit the layout.

Note: With limited access rights, these settings cannot be changed.

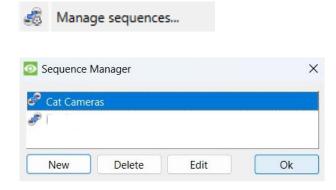
2.4.5.6 Recall Sequence

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



- → Click Recall sequence to bring up a list of existing sequences.
- → Click on the desired sequence to run.

2.4.5.7 Manage Sequence



Click **Manage sequences** to bring up the Sequence Manager.

To **edit** a Sequence, select the existing Sequence and click Edit. To create a **new** Sequence, click on New. Both actions will open the **Sequence Editor**.

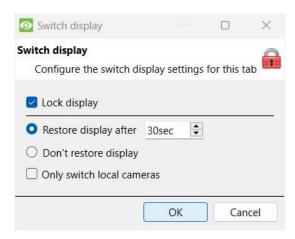
For more on creating a sequence, see 10.4.5. Sequence Manager in the *CathexisVision Setup Manual*.



2.4.5.8 Switch Display Settings For this Tab

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

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.

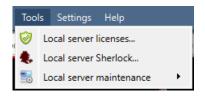
Restore display after: Will define the time after which the Cameras Tab will return to the original display settings, after switching to the Event Cameras.

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: **Lock/unlock** the currently opened Cameras Tab by clicking on the **lock / unlock icon** located at the bottom of the Resource Panel in the Cameras Tab (only appears when the mouse hovers over it).

2.4.6 Tools Menu

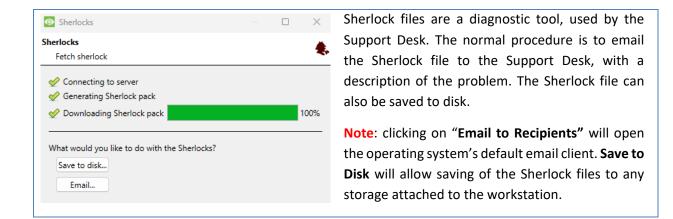


If on a client PC, this will read "Viewing Station licenses". If on the server, it will say "Local server licenses". Also retrieve the server licenses from Site, or units, by entering the **Setup / Configure Servers / and right-clicking on the unit.**

2.4.6.1 Local Server Licenses

This allows the user to add a license to the Base Station being worked on, not to any of the Recording Servers on the Site.

2.4.6.2 Sherlocks





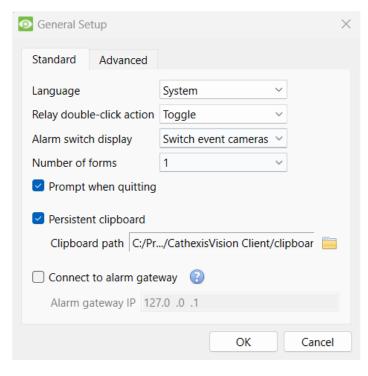
2.4.7 Settings Menu



This section deals with the **Settings Menu**, common across all Site tabs.

2.4.7.1 General

Standard Tab



Language: Select the language of the GUI from the drop-down menu.

Relay double-click action: 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 when a user handles Event Alarm. It defines whether the display will switch to show the cameras attached to that alarm, or not.

Number of forms: Selects the default number of monitors to be displayed. The default maximum is 6. Override this by editing the command line. See section 10.2 Command Line Options in the Cathexis Vision Setup Manual.)

Prompt when quitting: Every time CathexisVision quits, this will prompt the user regarding whether or not the current tabs should be reopened when the program is started.

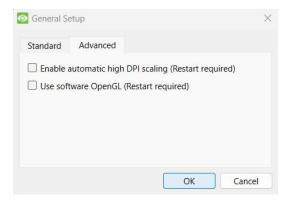
Persistent clipboard: This will persist after closing CathexisVision.

Connect to alarm gateway: Check to enable connection to the alarm gateway. Enter the gateway unit's IP address.

Click the **question mark icon (?)** to display license information. These settings can also be configured by editing the command line. See the Setup Manual.



Advanced Tab



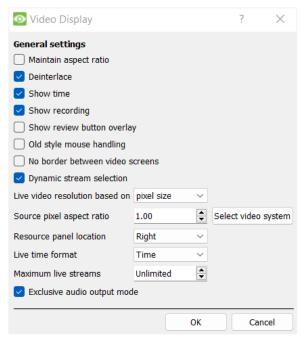
This tab deals with slightly more advanced settings for the GUI.

Check to enable automatic high DPI scaling of the GUI.

Check to enable use of OpenGL software.

Note: Restart required for both settings.

2.4.7.2 Video Display



General Settings

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

Deinterlacing: Converting interlaced video (such as analogue) to a non-interlaced form.

Show time: Shows the time on the video.

Show recording: indicates (using 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 its 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.

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.

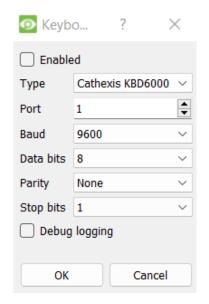
Live Time Format: Time or Date and Time.

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 an NVR / DVR, this setting is only accessible to an administrator.)

Exclusive audio output mode: determines if only a single audio stream will play when viewing or reviewing video footage, or if simultaneous playback of audio from multiple video feeds is allowed. When the audio output mode is 'exclusive', audio playing from one camera will stop if the user selects the audio from a different camera.



2.4.7.3 Keyboard



This option is for adding a keyboard to a **Base Station on a client PC.** If adding a Keyboard to a Recording Server, do so via **Site / Open Tab / Setup / Configure Servers / Keyboard / New**.

These settings are pre-set based on the type of board you are using.

2.4.7.4 Alarms

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

2.4.8 Help



Viewing station stats: This shows the statistics for the local server if it is an NVR, or for the Viewing Station, depending on which unit is being worked on.

Manuals: The *QuickStart Guide*, *Operator's Manual*, *Setup Manual*, and *Archiving Guide* are accessible within the software.

About: Provides information about the License, the Release version, and the email address for Support.



2.5 Status Bar

The status bar at the bottom on the interface provides information about the status of the software and its components. The following status icons are visible on the bottom left of the interface:

dvs (Administrator)		Supplied by CatAfrica
The username , and their access level.	This represents the main license of the unit.	The distributor of the license.

The following **notification icons** are visible on the bottom right of the interface:

Icon Description



The **cameras notification** will only appear to alert the user when cameras are down. Clicking on it allows one to see which cameras these are.



The **licensing notification** will be permanently present. It will change colour depending on licensing status.

Green indicates a healthy licensing status.



Orange indicates that there are demo licenses due to expire.

Red means that there are either missing or expired licenses.



The **performance monitor notification** is permanently present. It will allow viewing of performance statistics.



The **connection status** icon is permanently present. It indicates the status of the connection to the current Site.



Video Analytics notification: warns the user when an error has occurred, involving one or more of the video feeds on a site.



Failover notification will provide information about the status of existing failover servers.



Database volume / slice or performance notification: It can also indicate when cameras have been configured to record without being assigned a database.



Failover database synchronization notification: the failover server is transferring recorded footage back to the main server after recovery.



LPR notification: shows an error when there are LPR license / dongle problems.



A health alert notification: Check the tooltip to see the health status. If the primary disk is "full" the health alert will be triggered.



Tamper detection alarm: It will indicate the cameras where a tamper has been detected.



A gateway notification: this is shown if the gateway database could not be started.



2.6 Local Resources



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



Local default audio input (for example, microphone).



Local default audio output (for example, speakers).



Local monitor.

When active, these resources display bright green. When inactive, the resources are grey.

If the cursor is run 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 there are many local resources, they will be arranged in a scrolling area, with left and right scroll arrows.



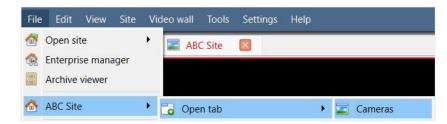
3. Cameras Tab

This section deals with the Cameras Tab. This is the tab through which the operator will view live footage and review recorded footage.

3.1 Open the Cameras Tab

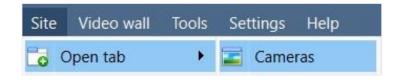
After opening a connection to the desired Site, open the Cameras Tab. There are three ways to do this:

OPTION 1



File/ Your_Site_Name / Open tab / Cameras Tab

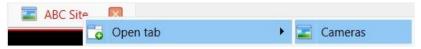
OPTION 2



Site / Open tab / Cameras Tab

OPTION 3

Site must already be open for this option.



Right-click on Your_Site_Name tab / Open tab / Cameras Tab



3.2 Interface

This section describes the CathexisVision Cameras Tab interface and corresponding sections.

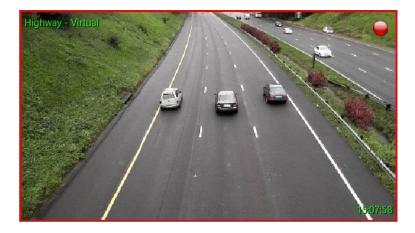


3.3 Camera Panels

This section covers the overlays visible on each panel and the options available in the context menu.

3.3.1 Overlays

3.3.1.1 Live



Green text indicates a live stream.

- The text in the top left is the camera's name. In this example it is Highway 1.
- The **timestamp** is shown on the bottom right.
- A **red circle** in the top-right corner indicates that the camera is currently **recording** to one of the databases.



3.3.1.2 Review



Red text indicates that the video in this panel is being **reviewed** from 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.

3.3.2 Video Feed Options Panel

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





Click on this icon to select available overlays (if configured and enabled).



Click on this icon to choose between available video feeds for the selected camera. This is useful to view a camera over a slower link and the camera provides a lower format/ resolution feed.

If in review, the following icons will also be present:

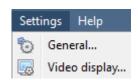


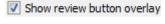
Database icon. Allows the user to select which database to review video from.



Smart Search button. Click to perform a Motion Search or SnapSearch. See respective <u>sections</u> later in this manual.

3.3.2.1 Review Button Overlay





Under **Settings / Video Display**, there is an option that reads "Show review button overlay".

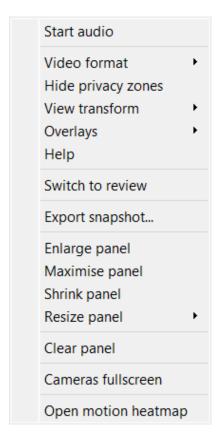
When checked, the following overlay will be displayed when hovering the mouse over a camera panel where the video is currently being reviewed:





3.3.3 Right-Click on a Live Camera

To see the live context menu, right-click the mouse on the camera panel of choice.



Start audio: If the camera supports audio, select to listen to live audio.

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

View/Hide privacy zones: Allows for a privacy zone configured on the camera to be enabled or disabled.

View transform: Allows transforming images for cameras with special lenses. (For example, 360-degree cameras.)

Overlays: Allows viewing the different analytics algorithms that have been applied to this camera's feed, live in the Cameras Tab.

Help: A pop-up help window on Digital Zoom, and PTZ Control within this panel will appear.

Switch to review: Allows switching back and forth between live and review footage.

Export snapshot...: Opens a window to print snapshot, save to folder, copy to system clipboard, or copy to CathexisVision clipboard. The user can also choose include the camera name and time of snapshot in the overlays.

Enlarge panel: Resizes the panel to the next size up.

Maximise panel: Resizes the panel to the maximum size.

Shrink panel: Reduces the size of the camera panel.

Resize panel: Gives more resizing options.

Clear panel: Removes the camera or cameras from the currently selected panel or panels.

Cameras fullscreen: Fills the entire screen with the Cameras Panel, creating a Video Wall. The same

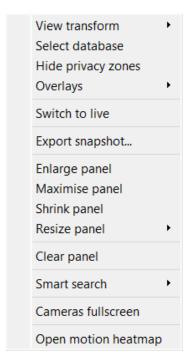
procedure will exit fullscreen mode.

Open motion heatmap: Opens motion heatmap.



3.3.4 Right-Click on a Camera in Review

To see the review context menu, right-click the mouse on the camera panel of choice.



View transform: Allows transforming images for cameras with special lenses. (For example, 360-degree cameras.)

Select database: If multiple databases are set up, use this option to set a camera to record to a certain database.

View/Hide privacy zones: Allows for a privacy zone configured on the camera to be enabled or disabled.

Overlays: Allows viewing the different analytics algorithms that have been applied to this camera's feed, live in the Cameras Tab.

Switch to live: Allows switching back and forth between live and review footage.

Export snapshot...: Opens a window to print snapshot, save to folder, copy to system clipboard, or copy to CathexisVision clipboard. The user can also choose to include the camera name and time of snapshot in the overlays.

Enlarge panel: Resizes the panel to the next size up.

Maximise panel: Resizes the panel to the maximum size.

Shrink panel: Reduces the size of the camera panel.

Resize panel: Gives more resizing options.

Clear panel: Removes the camera or cameras from the currently selected panel or panels.

Smart search: Use the 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.

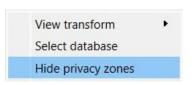
Open motion heatmap: Opens motion heatmap.

3.3.5 Hiding/Showing Privacy Zones in the Cameras Tab and Database Review

Privacy zones will be shown by default. The option to hide privacy zones is in the **context menu** of the camera in the **Cameras Tab**, and in the **Database Video Player**. Users with **Access rights** may hide or show **Privacy zones** in both **Live** and **Review** mode, and from within the **Video** and **Integration Database Reviews**.

Right-click on the camera image to open the **Context Menu**. If the user has the access rights, the option to hide or show privacy zones will be presented.







Note:

- 1. Only users with the relevant access rights will be able to hide or show privacy zones.
- 2. Users cannot hide or show privacy zones in archived footage. Privacy zones will be hidden or shown depending on whether the privacy zones are hidden or shown during archiving.
- 3. Privacy zones will be exported for all snapshots.
- 4. Privacy zones are stationary. Only areas of the camera image can be hidden. Objects which move out of the privacy zones will be seen.
- 5. When privacy zones are added to a panoramic camera, the CathexisVision image transformations are disabled.

3.3.6 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 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.

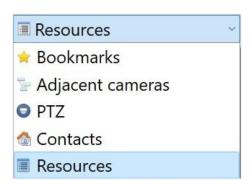
3.3.7 Digital Zoom

The user can zoom in digitally on cameras that have no physical PTZ capability. To do this, select the specific camera in the Cameras Panel. Then:

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. To do this, hold down the left mouse button, while moving the mouse.

3.4 Resources Panel

The Resources Panel shows a list of resources and available resource tools, depending on which resource type is selected from the Panel selector.



The **panel selector** is a dropdown bar for selecting from a variety of panels. Selecting one of the panels will determine the resources that appear in the resource list.

See below for each panel type and associated resources.

Note: Areas 3.4, 3.5, and 3.6 can be configured to appear on the left or the right side of the screen. Follow **Settings Menu / Video Display / Resource Panel Location.**

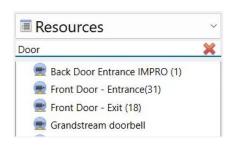
Contacts are the special *Site contacts*, set up by an administrator. Resources are the available *Site resources*, such as cameras and relays.



3.4.1 Resources

When the Resources option is selected from the dropdown menu, the panel will populate with all site resources that have been made available on the Site.

3.4.1.1 Filter Resources



In the Resources Panel, resources may be filtered by typing in part of the resource name.



Click the cancel icon to clear the search.

3.4.1.2 Select a Camera

Cameras are selected from the Resources Panel, to be viewed 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 is selected.

Drag a camera from the Resources panel

→ Left-click on a camera, holding down the mouse button. Drag the camera from the Resources panel and drop it in the desired panel.

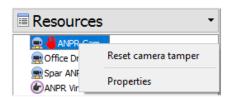
Drag a group of cameras from the Resources panel

→ Select a group of cameras from the Resource Panel by selecting cameras while holding down the CTRL button. Drag the cameras onto the camera display (for Cameras Tab or multisite tab) and drop. This is a quick way to populate a screen with cameras.

3.4.1.3 Reset Camera Tamper

The camera tampering alarm can detect various forms of tampering, such as intentional obstruction of the camera lens, or attempts to manipulate the camera itself. Depending on access rights, the user may be able to reset a camera tamper if it has been 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, the user may need to clear the tamper state from within the software.





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

Right-click the camera and select Reset camera tamper.

3.4.1.4 Mouse-over Options



With the Resources Panel selected, hover over the bottom of the Resources List. The resource panel's mouse-over options include:



Lock Display

CathexisVision events can be set up to switch the camera panel to view cameras related to the event. Click on this lock to enable or disable this feature.





An unlocked display will switch. A locked display will not switch.

PTZ Controls

Click this to bring up the PTZ control panel. Alternatively, select PTZ from the Panel Selector.

Event Notifications

If an administrator has set up **Event Notifications** for this unit, then notifications will be received based on these setups.



- → An audio notification. This is a sound clip that gets played when the event triggers.
- → A popup notification. This is a popup message that is shown when the event triggers.





→ A message notification. This is a message that gets displayed in the notification area of the Resource Panel. It is meant as an unobtrusive feed of events.



Click the icon at the bottom of the Resource Panel to show or hide the notifications area. If an event has camera resources associated with it, they will be shown in the camera view when the notification is double-clicked.



Click on the **database icon** in the Notifications Panel to open the camera at the point in the database where the event occurred.

Click on the **recycle icon** to clear message notifications.



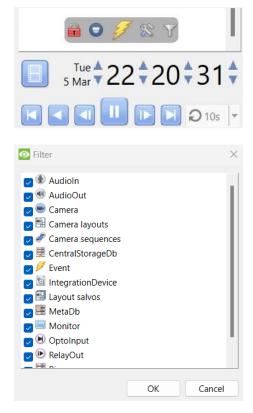
- Click on the recycle icon attached to a notification clear that specific notification.
- Click on the icon at the top of the notifications panel to clear all notifications.

Configure Resource Panel

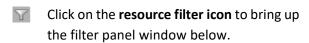
This section allows the administrator to set up the resources that are pulled through into the resources panel. These include the Unit Resources, Camera Layouts, Camera Sequences, Layout Salvos, and Site Actions.

Note: This topic is part of the Site Configuration and is dealt with in greater detail in the *CathexisVision Setup Manual*.

Resource Panel Filter



To bring up additional resource options, hover the mouse above the date/time, or at the bottom of the resource window.



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

This is useful in sites that have many resources, and the user may want to filter these when searching for a specific resource.



3.4.2 PTZ Panel

Click on this icon to bring up the PTZ panel. This icon is shown in the Resources Panel, in the mouse hover Options. Alternatively, select the PTZ option from the Panel Selector.

This icon indicates a PTZ camera, in the Resources Panel. With a PTZ camera, an operator can manipulate the camera's direction, zoom, focal distance, and amount of light.

The operator can also control pre-configured camera views, called "Presets".

This panel provides controls for camera Presets, and a software joystick for interactive control of the camera.

The **Presets controls** enable the user to set Presets, and go to Presets.



The **Manual button** is for manual override of the dome.

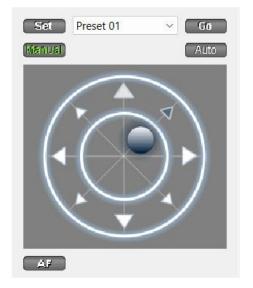
This is to override automated patterns, local tours, etc.

The **Auto button** relinquishes manual control to let the system regain its automated configuration.

Note: The green tex

The green text on one of these buttons indicates the mode that currently applies: Manual or Auto.

In the example on the left, the system can function automatically. The screen may change unexpectedly as it runs patterns or tours.



The Dome/PTZ camera can be panned or tilted by dragging the joystick positioned in the middle of the PTZ control block.



3.4.2.1 PTZ Panel

To go to a Preset from the PTZ panel: To set a Preset from the PTZ panel: Select the Preset from the dropdown menu. → Select the Preset from the dropdown menu. Then click GO. The camera view will change to → Use the joystick controls to establish the the Preset. camera view, zoom, focus, and light (iris). → Click SET. → Go to this Preset to check it. To relinquish manual control of the dome/PTZ To pause a PTZ Tour: camera from the PTZ panel: PTZ tours can be paused or restarted, per camera. This is achieved by right-clicking on the Click Auto. If the system runs remote tours automatically, or switches display based on camera in the Resource Panel and selecting the events, these automated responses will take "Pause / restart PTZ tours" option. over. To lighten/darken the live camera view from To gain manual control of the dome/PTZ camera the PTZ panel: from the PTZ panel: Click Manual, or move the software joystick. Watch the live camera as the iris open, or iris close buttons are pressed. The image will lighten Note: This applies if the system runs remote or darken. tours automatically, or switches display based on

3.4.2.2 Individual Camera Panel Zoom Options



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

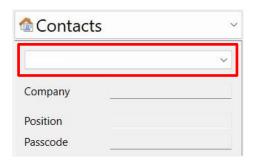
events.

Zoom In/Out	Zoom to Area	ĺ
Scroll the mouse wheel. To do an accelerated zoom, hold down the SHIFT key while scrolling the mouse wheel.	Left-click the mouse to select an area while holding the SHIFT key.	
Zoom out completely	Centre on Point	1
Press the Z key	Left-click the mouse while holding the SHIFT key.	1
or	or	
hold down the left mouse-button for half a second and select the zoom-out menu option.	Hold down the left mouse button for half a second and select the centre on point menu option.	



3.4.3 Contacts Panel

The contacts panel displays the special site contacts and their details that have been set up by the Site administrator.

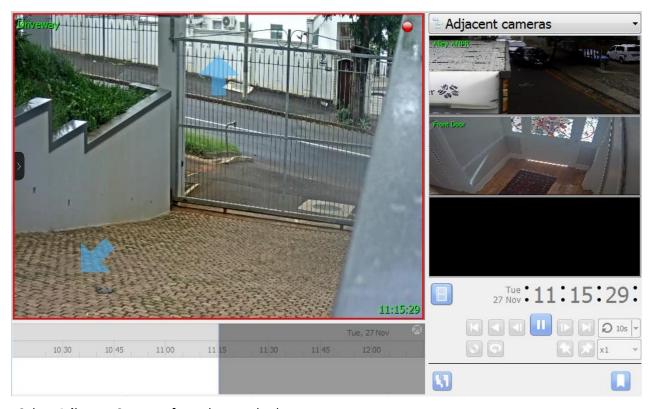


Contacts that have been added will be listed in the top drop-down menu (outlined in red in the image).

Select the desired contact from the dropdown list to display their details.

3.4.4 Adjacent Cameras

Adjacent cameras are set up by the site administrator. Adjacent cameras allow operators to navigate quickly and seamlessly between cameras. This feature allows the user to follow a person in real-time using linked cameras, which appear over the camera image as overlays. (See the blue direction arrows.)



Select **Adjacent Cameras** from the panel selector.

3.4.4.1 Resources List

The list of cameras that are adjacent to the currently selected camera will be displayed as thumbnails in the **adjacent cameras resource** list. Double-click on a camera to switch to it.



3.4.4.2 *Navigate*

Click the blue arrows to navigate to cameras that are adjacent to the current camera. The direction of the arrow (the direction of the connection between the cameras) is determined by the system administrator when adjacent cameras are configured. The user may also double-click on a camera name from the Resources list to switch to it.

3.4.5 Bookmarks

Bookmarking is a feature which preserves camera layouts in live/review.

Note:

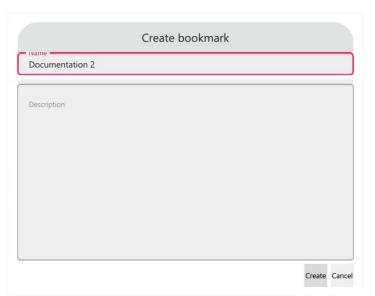
- → When a bookmark is recalled, any cameras that were **live** will switch to **review** at the time the bookmark was created.
- → Bookmarks will only contain resources to which the user has access.
- → Bookmarks are stored locally (on the client PC). If the same user logs in from a different unit, the saved bookmarks will not be available.
- → Bookmarking will **not** save:
 - PTZ position,
 - Current digital zoom parameters,
 - Live camera sequence running in a panel.
- → Bookmarks do not prevent data from being overwritten on the server. If the user requires bookmarked video to be retained, then the user should create an archive.

3.4.5.1 New Bookmark

To create a bookmark, lay out the cameras as desired.



Then click the button located beneath the Review Controls Panel.



In the window that opens, give the bookmark a name and a description. Click **Create** when done.

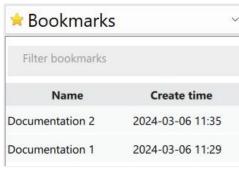
Note:

- → When a bookmark is recalled, any cameras that were live will switch to review at the time the bookmark was created.
- → Bookmarks will only contain resources to which the user has access.



3.4.5.2 Bookmark Panel

Once bookmarks are created (above), they can be viewed and managed in the bookmarks panel. Select bookmarks from the Panel Selector.





Click a column heading to **sort** in ascending or descending order.

To **view** a Bookmark, double click on the desired bookmark. The associated camera views will populate the camera panel.

Click the arrow at the bottom of the panel to show more information about the selected bookmark.

Right-click on a bookmark to show the following bookmark options:

- Export
- Delete
- Copy cell value

Filter Bookmarks

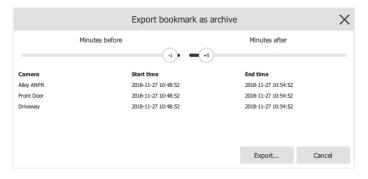


Enter a search term in the text field. The search term can be a camera name, or an excerpt from the description.

Associated results will be displayed.

Results can be further filtered by name of bookmark, bookmark description, or name of camera in the bookmark.

Export Bookmark



Bookmarks may be exported as archives.

: Click on this icon.

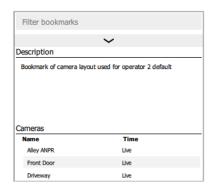
The list of cameras in the bookmark will be shown. Set the Start/End time of the archive by dragging the sliders to determine how many minutes before/after the time of bookmarking the archive should be.

The times listed next to each camera will adjust accordingly. Click **Export** to bring up the archive window. See archiving section for more.



Note: The bookmark's name will be used as a default filename. The bookmark's description will be used as the default archive description.

Display Bookmark Information



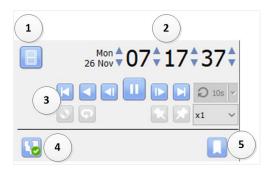
To display more information about the selected bookmark, click the arrow at the bottom of the bookmarks Resource Panel.

Bookmark description (if any) will be shown.

List of cameras and time of bookmarking will be shown.

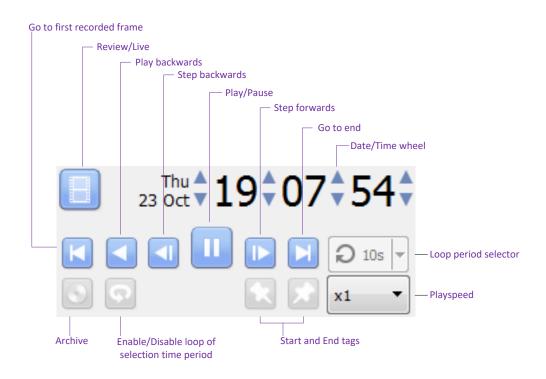
To close this panel, click the arrow again.

3.5 Review Control Panel



- 1. Toggle Live/Review mode.
 - In Review, click to return to Live.
 - In Live, click to switch to Review.
- 2. Go to date / time.
- 3. Review Controls
- 4. Toggle Activity Trails on / off.
- 5 **Bookmarks.**

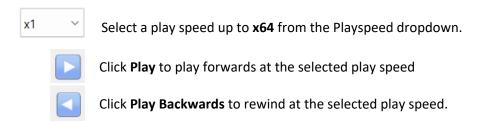
3.5.1 Review Controls





Note: 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.

3.5.1.1 Playback Speed



3.5.1.2 Selecting a Period for Review

After finding something of interest, the user may wish to loop through the recorded footage around that event. (This can also be useful when selecting footage for archive). The timeline can be moved around by left-click dragging it. There are two ways to select the period for review.

Start by using the using the Date/Time wheel, to navigate to the desired beginning point.

Option 1: Tagging



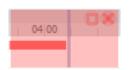
Click on this icon to tag the **start** of the selection. Then navigate to the end of the desired period.



Click on this icon to tag the **end** of the selection.

Option 2: Shift Selection

Hold down the SHIFT key, while left-click dragging the selection with the left mouse button. The selection will look like the image below.



The selected areas will appear, as shown in the image on the left. By default, it will be set to loop.

This can be seen when looking at the loop icon.



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

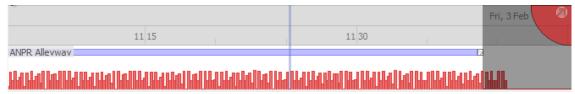


This icon means that the video will continue to play past the end of the selection.



3.6 Timeline

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



Note: Although *review legacy video* is available in CathexisVision 2015 and onwards (i.e. recordings made on pre-2015 systems) the timeline will remain blank.

3.6.1 Basic Description

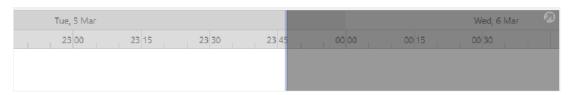
GENERAL CATEGORY	SYMBOL	DESCRIPTION
Recording s		This solid bar indicates there are recordings for this camera.
	13 27 13:27:30 Enable motion	The thin grey line indicates that the server was running, and the camera was online, but there are no recordings.
	^^^	A red jagged line indicates that the camera is down.
		Actions:
		 Click anywhere to go to a time in the recording or drag the timeline to the desired location. Hover mouse over the recording area to display the thumbnail preview image of recording.
Motion Analytics		This indicates that this camera has a motion database, and that there has been activity in the area.
		Actions: Click anywhere to go to a time in recording, or drag the timeline to the desired location
Popout	0	Click this to pop the timeline out into a detached mode. Click the arrow again to dock it.



3.6.2 Timeline View Types

3.6.2.1 Live View Timeline

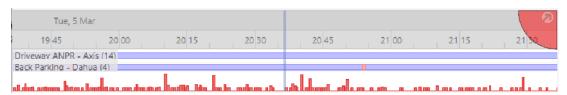
The live view timeline shows the current time at the intersection between white and grey.



3.6.2.2 Single and Multiple Camera Review Timeline



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

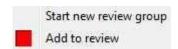


If multiple cameras are selected to review, they will appear stacked on the timeline.

3.6.2.3 Synchronised/Independent Review

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

When already reviewing a camera, middle-clicking on a camera's panel will display 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 topright 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 review groups are added, the number of options here will increase as a result.



3.6.2.4 Zoom in on Timeline

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

- 1. Mouse over the timeline (during review) and roll the mouse-wheel forwards. Roll back to zoom out.
- 2. Shift-select a section of the timeline.



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

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

3.6.2.5 Move the Timeline with the Mouse

Move backwards and forwards in time by left-click dragging the timeline in the desired direction of travel.

3.6.2.6 Hover over Timeline



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



3.7 Smart Search Tools

Smart Search is a collection of tools which intelligently search video footage. These tools are **Motion Search** and **Snap Search**.

Note: Camera must be in review for Smart Search tools to appear.

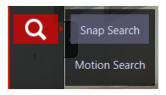
3.7.1 Open Smart Search Tools

First, turn to review mode.

OPTION 1



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 either **Motion Search** or **Snap Search**.

OPTION 2



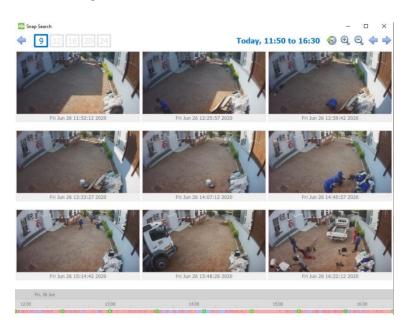
Right-click on the camera image and select

Search / Snap search.

3.7.2 Snap Search

While in review mode, the user can search the database recordings for frames which match the current still-image on the screen.

3.7.2.1 Snap Search Window





- 1 Frame Display. Choose how many frames to display on the page.
- **Time Range Control**. Set the time range of the search, zoom in/zoom out to narrow or widen the time range, or go backwards and forwards between time periods.
- **Frame Area**. All frames which are similar to the image used to search will be displayed in this area.
- **4** Timeline. Use this timeline to navigate between relevant frames.

3.7.2.2 Time Range Control



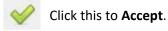
The current time range in which frames are being viewed. If the time range is changed, it will be reflected here.

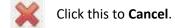


Set the time range. Clicking this icon will bring up the window below, in which the range may be set.



Set a Start and End time range.







Zoom in to narrow the time range. Zoom out to widen the time range.



Go to next / previous time periods. The user can navigate between time range periods using these buttons (depending on the time range set), using the clock icon above. The length of the period is determined by how narrow or wide the set time range is.

3.7.2.3 Frame Area Controls

Several controls are available in the frame area. These are:

Double-click a frame

Double-click on a thumbnail to start playback from that frame in the CathexisVision GUI review. The **Snap Search Window** will remain open.



Right-Click a Frame

Play from here Show day

Show 11am to 12pm

Show hour back

Show hour forward

Play from here: This opens an embedded video player and starts playback of the recording from the frame selected.

Show day: This displays frames from that day over 24 hours (midnight to midnight).

Show 11am to 12pm: This shows frames from the hour of the selected frame. This time range will change according to the time of the specific frame that has been selected.

Show hour back: This moves the time range an hour back and displays the relevant frames.

Show hour forward: This moves the time range an hour forwards and displays the relevant frames.

Search Between Frames

Search time periods between specific frames on the page by clicking-and-dragging.



Click on the desired start frame for the search, and drag to the desired end frame.

A blue line will represent this and display the time between the two frames.

A negative/positive
 sign indicates whether
 the time difference is
 ahead or behind the
 selected frame.

Today, 12:07 to 12:15 © @ @ # #

Mon Aug 1 12:07:56 22:15 Mon Aug 1 12:08 1:23:315 Mon Aug 1 12:10-48 20:16

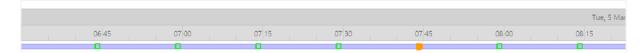
Mon Aug 1 12:10-44 22:15 Mon Aug 1 2:11:45 23:15 Mon Aug 1 12:12:38 20:16

Mon Aug 1 12:10-47 22:15 Mon Aug 1 12:14:23:38 20:16

Search between any frames, in any direction.



3.7.2.4 Timeline



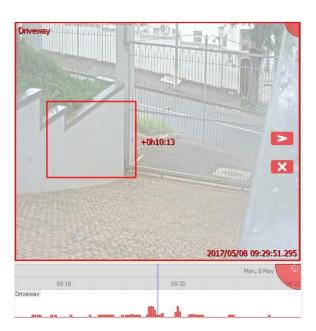
The "snap search" timeline functions in the same way as the CathexisVision GUI timeline. Click anywhere on the timeline, to go to that time. Also archive from the embedded player.

This indicates that 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.

The orange square indicated the position of the selected frame in the overall timeframe.

3.7.3 Motion Search



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

When attempting to perform a Motion Search on a camera that is not being recorded in the motion database, a notifying popup will be displayed. See notes below.

Note:

- Camera must be in review for Motion Search to work.
- Motion Search uses metadata from the Motion Search analytics database. To perform a motion search, cameras must have Motion Search analytics configured (Setup Tab / Configure Servers / Video Analytics / Motion Database).
- Motion search data is gathered in real time. This means that there will not be any search data available for periods when Motion Search was not configured.
- This feature is not connected to Activity Trails, but both utilise data collected by the motion database.



3.7.3.1 Select Region to Search

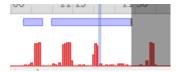


With the left mouse-button, click and drag to select an area on the camera.



Click to search for motion in the selected region.

Motion will be displayed on the timeline:





Click to exit Motion Search.

3.8 Activity Trails



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

The information below is about the elements of the **Activity Trails feature** which apply to both **Live** and **Review mode**. Below that, there are dedicated sections for both **Live** and **Review** which deal with the options specific to each mode.

When attempting to enable Activity Trails on a camera that is not being recorded in the motion database, a warning notification is displayed.



Note:

- For all features to work, cameras must have recording set up.
- 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.

3.8.1 Toggle Activity Trails On/Off



Click this button to turn Activity Trails On/Off:

When Activity Trails are **on** and the camera is in review, these arrow buttons will appear. They look back/ahead for activity trails in the recording.

3.8.2 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, displayed on top of the overlay).

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

Overlay Colours



Overlays range along a colour spectrum from green to red. Overlays 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 occurred in that area.

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

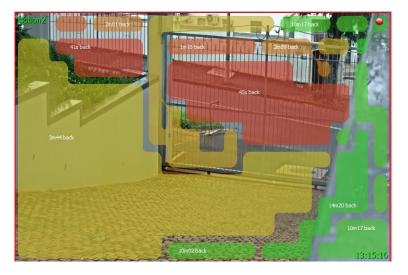
Double-click on one of the activity areas (highlighted by the overlay) to go to the time of that activity in the recordings. If in Live mode, this option switches to review mode.

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



3.8.3 Live Mode

When in **live mode**, with Activity Trails 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 to review mode.
- In Live mode, motion is displayed along the timeline.

3.8.4 Review Mode

If the user has double-clicked an activity area to review, or the user has 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 an hour 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.

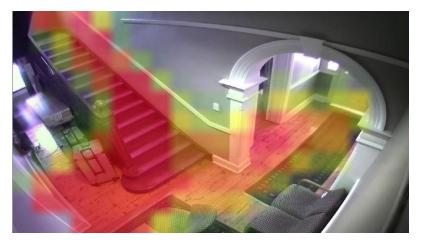




1	Overlay and Activity Time	The overlays will change colour and the activity time will decrease / increase depending on how recent the activity is. When activity is 'Active', it means that activity occurs at that point in the recording.	
		When looking forwards, the activity time counts down to the time that activity occurs (instead of counting the time after activity occurred).	
2	Activity level on Timeline	the motion spikes, the more activity in the area at that point.	
3	Look Back /Ahead	These buttons allow looking back or ahead an hour in the activity data.	



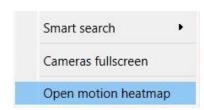
3.9 Heatmaps



Similar to Activity Trails, the Heatmaps feature uses data from the Motion Database to indicate less or more motion in the camera. It does this by overlaying a heatmap over a camera snapshot.

The greener an overlay, the less motion occurred in that area. The redder an overlay, the more motion in that area.

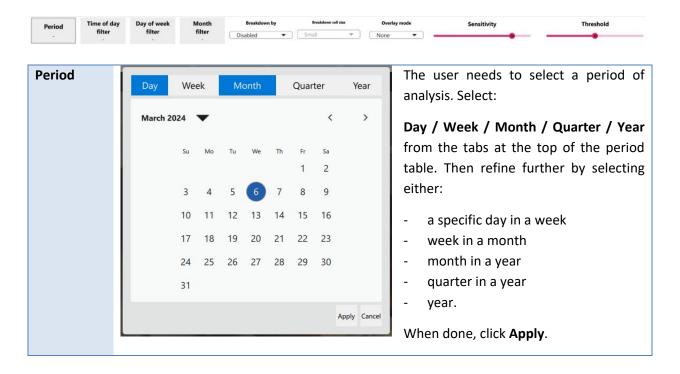
3.9.1 View Heatmap



To view a camera's heatmap, load a camera in the Cameras Tab / right-click on the feed / select Open motion heatmap.

3.9.2 Heatmap Parameters

When the heatmap window opens, the user will need to define a few parameters before a heatmap can be generated. See below.



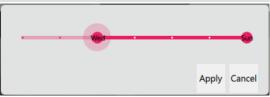


Time of Day Filter



The period (defined above) can be further refined. Drag the sliders to limit analysis to certain times of the day.

Day of Week Filter



The period (defined above) can be further refined. Drag the sliders to limit analysis to certain days of the week.

Note: Not applicable when only 'Day' is selected for period of analysis.

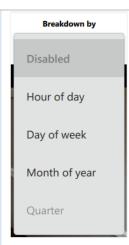
Month Filter



The period (defined above) can be further refined. Drag the sliders to limit analysis to certain months of the year.

Note: Only applicable if Quarter/Year is selected for period of analysis.

Breakdown



Results generated by the application of the above filters are displayed in snapshots. The snapshots can be broken down according to various timeframes:

Hour of day: Displays 24 snapshots.

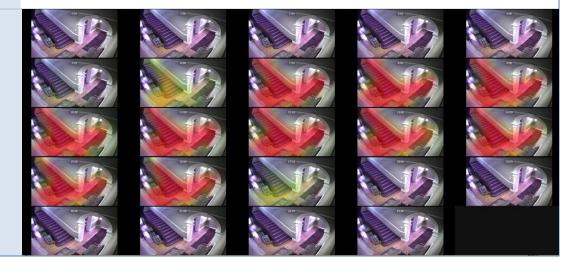
Day of week: Seven snapshots.

Month of year: 12 snapshots.

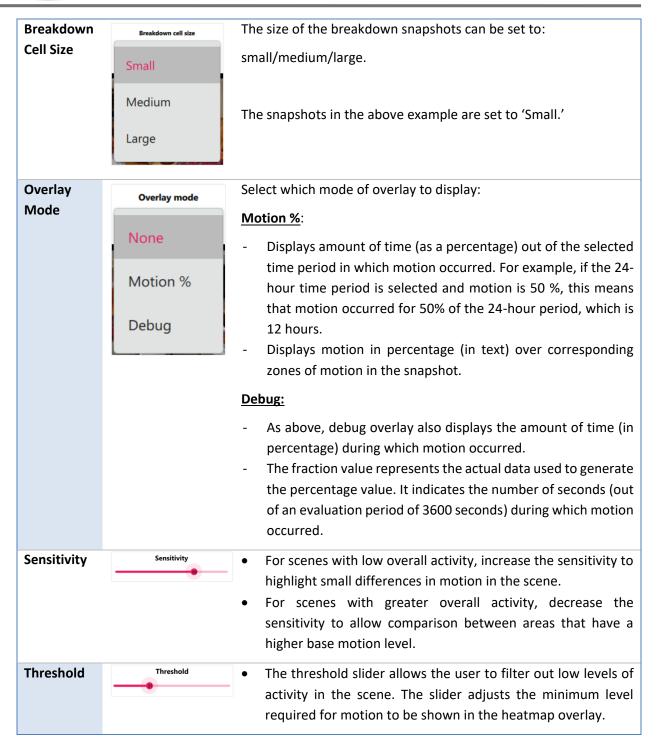
Quarter: Four snapshots.

Note: Breakdown options will be determined by the period of analysis. I.e., **Month of year** breakdown cannot be selected if only 'Day' is selected for period of analysis.

Below is an example of the heatmap snapshot results when 'Hour of day' is selected for the breakdown. There are 24 snap shots for each hour of the day.







3.9.3 Heatmap Results

Click **Apply** once parameter adjustments have been made. The heatmap results will be updated. The greener an overlay, the less motion occurred in that area. The redder an overlay, the more motion in that area.



Close the window when done.



4. Archiving

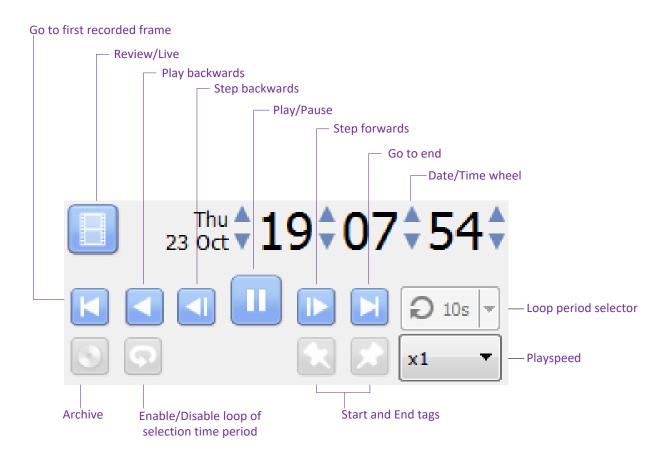
Archiving is a process of selecting recordings and copying them to archiving media, such as USB key, hard drive, CD or DVD. Archived recordings retain their authenticity and can be verified as authentic (unaltered) on replay. Creating an archive is done from within the Cameras Tab. Reviewing and exporting an archive all occurs in the **Archive viewer tab**, or the **CathexisVision Archive Player**.

This section details the procedures for reviewing video and selecting portions of the video to be archived. This is done from either the Archive Player or the Archive Viewer tab in CathexisVision, because the interfaces for doing so are the same.

4.1 Review Controls (Timeline and Review Controls Panel)

This section deals with reviewing video in CathexisVision. Two sections can be used to review recorded footage: the **Review Control Panel**, and the **Timeline**.

4.1.1 Review Control Panel



Note: To enable review, click on this icon. It will change to the following running-man icon:

Click on the running-man icon to return to live view.



4.1.1.1 To Review Footage from a Certain Date

Using the Time/Date Wheel



To go to a specific date, select the camera or cameras for review. Click on the arrows of the date / time wheel until the correct date / time is selected.

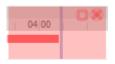
Using the Timeline

To move to a date and time, using the timeline, left-click and hold anywhere on the timeline. Drag the timeline to the desired time / date.

4.1.1.2 Selecting a Period for Review

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

- 1. Use the date / time wheel to navigate to the desired start point.
- 2. Then click on this icon: . This will tag the start of the selection.
- 3. The navigate to the end of the desired period.
 - Click on this icon to tag the end of the selection.



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

- This means that it will loop to the beginning of the selection, as it gets to the end of the selection.
- This means that the video will continue to play past the end of the selection.

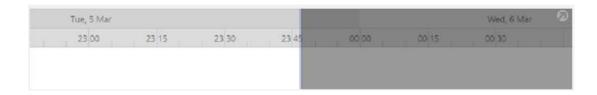
4.1.2 Timeline

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

Note: The user may review legacy video in CathexisVision 2015 and onwards (recordings made on pre-2015 systems), but the timeline will remain blank.

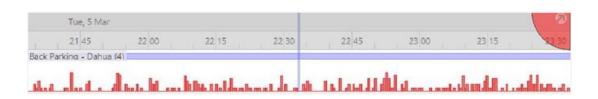


4.1.2.1 Live View Timeline



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

4.1.2.2 Single and Multiple Camera Review Timeline



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



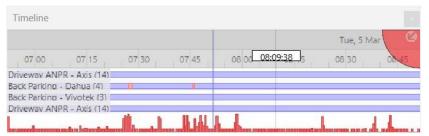
If multiple cameras have been selected for review, they will appear stacked on the timeline.

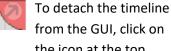
Note: Although multiple cameras may be selected for review, only two will be visible at one time.

Click on this icon at the bottom-right of the timeline to cycle between camera timelines.

To see more, detach the timeline from the GUI. This is described below.

4.1.2.3 Detached Review Timeline





the icon at the top right of the timeline.



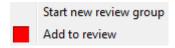
To reattach the timeline, click on the icon in the same place.



4.1.2.4 Synchronised / Independent Review

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

When already reviewing a camera, middle-clicking on a camera's panel will display the following options in the context menu.



Start new review group: this 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 topright of the video. Each review group will get its own colour.

Add to review: this will add this camera to the already existing review group. As review groups are added, the number of options shown here will increase.

4.1.2.5 Timeline Actions

Zoom in on Timeline

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

- 1. Place the mouse over the timeline (during review) and roll the mouse-wheel forwards. To zoom out, roll it backwards.
- 2. Shift-select a section of the timeline.



This is done by holding down the SHIFT key, while click-dragging the selection with the left mouse button. The 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

Move backwards and forwards in time by left-click dragging the timeline in the desired direction of travel.

4.2 Archiving Video

Once the video is selected, it may be archived for later review.

Special Notes

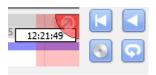
- → A Windows/Linux GUI can only output new archive files, but will be able to archive video from a VR running any OS.
- → Do not format or configure the newly inserted CD/DVD. Windows presents an option to configure the disk as CD/DVD, or drive. Do **not** do this.
- → When archiving a video stream 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.



4.2.1 Archiving from Live/Review

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

4.2.1.1 Select Video to Archive



There are two ways to select the period for archiving.

1. Tagging:

- Click on this icon to tag the start of the selection.
- Navigate to the end of the desired period.
- Click on this icon to tag the end of the selection.

2. Shift-selection:

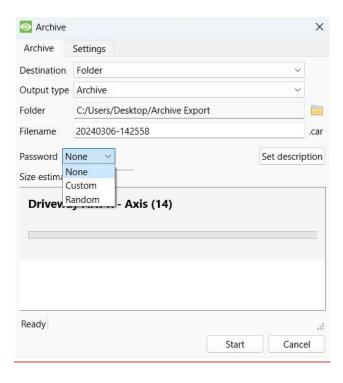
- Hold down the SHIFT key while click-dragging the selection with the left mouse button.
- The selection will look like the image shown to the left.



Click on this icon to start archiving the selection.

4.2.2 Apply Archive Settings

Archive Tab



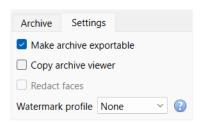
- → Choose the **Destination** to archive to. Choose between Folder and Optical disc.
- → Select the **Output type.** Choose between **archive** (.car) and **media file** (mp4).
- → Select a Folder for this specific archive.
- → The Filename may be defined manually.
- → Add a **Password**, if desired.

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

→ Click Set description to give this specific archive a title.



Settings Tab

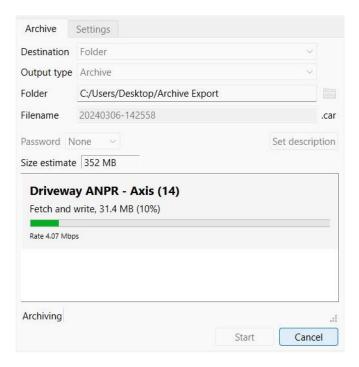


Check the box to make archives exportable or not exportable.

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 set up Watermark profiles is configured in Setup Tab / General Site Setup / Configure archiving. This setting is controlled by the administrator of the Site.

4.2.2.1 Complete the Archive Process



→ Click Start to archive the selections made in the Archive and Settings tabs.

The green progress bar with show how far along the archive has progressed.

4.3 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.

Note: 'Maintain aspect ratio' is enabled by default. It can be toggled on or off in Settings Menu / Video Display / Maintain Aspect Ratio.

4.3.1 Multi-Camera Archive Player

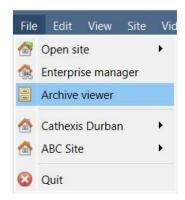
Archives with multiple cameras can be reviewed in the CathexisVision Multi-Camera Archive Player, available in CathexisVision 2020 and later. It is installed along with the software, but it is only launchable from the Windows Start Menu. The Multi-Camera Archive Player is dealt with in the *CathexisVision*



Archiving App-note. For more information, please consult this guide, or contact Support at support@cathexisvideo.com.

4.3.2 Open Archive Viewer/Player

Archive Viewer



Open the CathexisVision GUI.

Select File / Archive viewer.

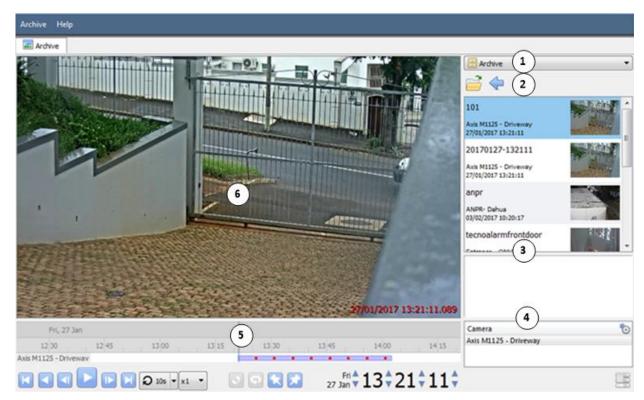
Archive Player



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

4.3.3 Archive Viewer/Player Interface

This section details the interface of the archive viewer / player, and the processes 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.



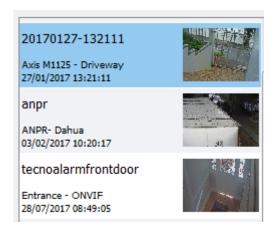
Click to browse folders in dialog window.

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, after the general folder containing the archive files has been selected.

File Information

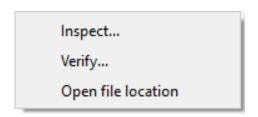


The archive file list displays information about the archives in the selected folder. This information includes:

- 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.

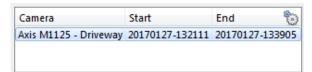


3. Description



When the relevant archive file is selected, a description of the archive will appear in the field beneath the archive file list (if the description was set during the archiving process).

4. Archive Properties



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

Dick on this icon to change column view.

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.

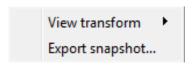
The red dots indicate the point that an event was triggered.



6. Archive Camera Panel

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

Right-Click Options

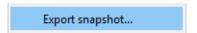


Select View Transform to transform the video.

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

Export Snapshot

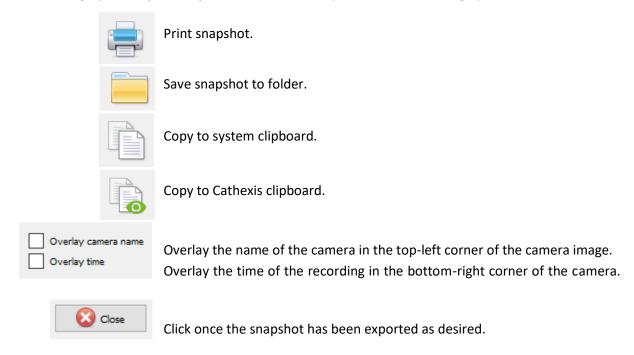
When reviewing archived video, video snapshots may be exported.



Right-click on the image and select "Export snapshot...".

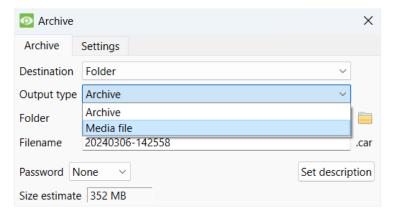


This will bring up the **Export snapshot** window, which provides the following options:



4.3.4 Export Archive

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



When exporting an archive, there is an additional **Output type** setting selection.

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

Select Media file.

4.4 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 or audio can be independently signed and explicitly linked to the source NVR.
- Clients sourcing data from an NVR for archive are audit logged.
- During the archiving process, archives can be encrypted with a password.
- During the archiving process, watermarks can be embedded in archive.
- 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 an archive's meta-data, and how to verify an archive's authenticity.

4.4.1 Inspect Archive

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



User: The username of the operator who performed the archive.

Description: This shows the description of the archive (if set).

Password: If a password is set this will show **Encrypted**. If not, it will show **Not set**.

Watermark: The watermark of the archive will show if set. If not, it will show **Not set**.

Archive time: This shows the time and date that the archive was performed.

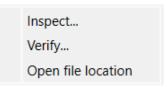
4.4.2 Verify Archive

From CathexisVision 2017 onwards, a new verification feature has been introduced. For security reasons, it provides a report on the authenticity of an archive. Archives may be verified from the archive viewer in CathexisVision, or from within the CathexisVision Archive Player.

If operators have a query regarding the verification, they can copy the verification result and email it to Cathexis support for help.

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.



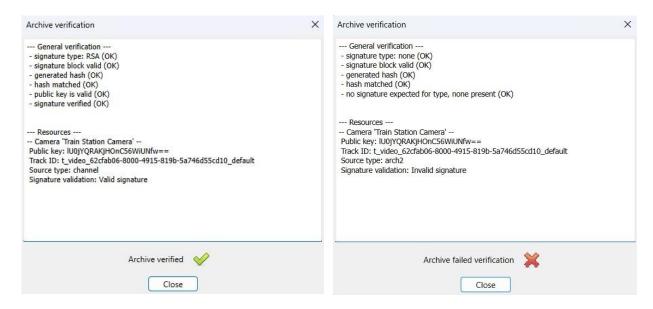
Once the file location of the archive is opened (in either the archive viewer or the CathexisVision Archive Player) right-click on the relevant archive. Select **Verify.**

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



Archive verified

Archive failed verification



Note: Archive verification reports may be copied and emailed to support@cat.co.za



5. Database Tab

In the database tab, both the general databases and the integration/metadatabases may be viewed.

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

5.1 Navigate to Database Tab



To open the CathexisVision Database Tab, select Site / Open tab / Databases

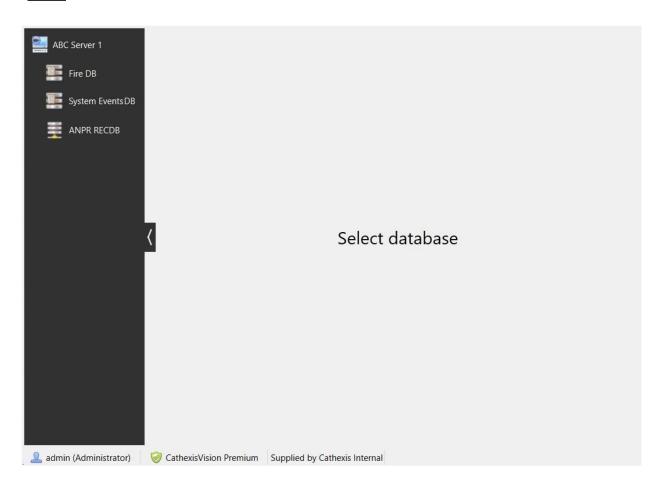
Once the tab is open, select a database to view from the panel on the left of the screen. There are two types of databases:



General Database (Video Database)



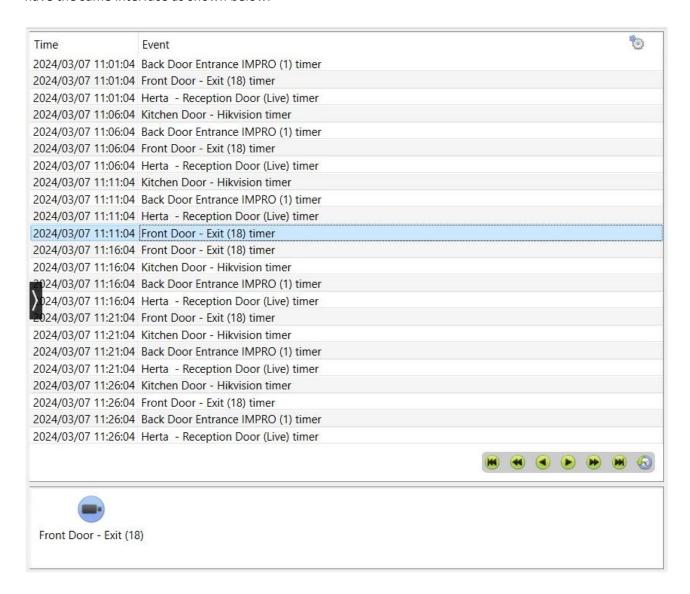
Integration Database (Metadatabase)





5.2 General Database

To view entries, select one of the general databases. If a Cathexis Events Database has been created, it will have the same interface as shown below.



5.2.1 Locate an Entry



In the Database Tab, click on this icon. It is located in the bottom right corner.



Select the date and time.



5.2.2 Replay an Associated Recording

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

5.2.2.1 Review Trigger Frame



To review the trigger frame, left-click on an entry.



If this icon is present in the panel below, double-click on it. This will bring up the dialogue shown to the left.

Trigger: Select this to show where the trigger occurred in the image.

5.2.2.2 Review Event Video



To review event video either double left-click on an entry, or single left click on the entry and double-click on the camera icon in the panel below.



5.2.2.3 CathexisVision Controls

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

5.3 Integration/Metadatabase

To view entries in an integration database, select the metadatabase associated with the desired integration. An integration database will have the same interface as shown below.



5.3.1 Interface



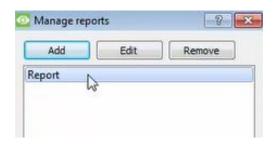
1	View	The user may change the way that the database is presented. Some integration databases have multiple view options.		
2	Sorted By	Events can only be sorted by certain parameters.		
3	Easy Search	The Easy Search option lets the user quickly search the database.		
4	Filter T	Filter offers a more advanced manner of sorting information in the Integration Database table. Once the filters dialogue is open, the following filter options are available:		
		▼ Enable filters To enable filters, check this box.		
		To add a new filter, click on this icon.		
		To delete an added filter, click on this icon.		
		It is possible to filter the same parameters more than once.		
		Timestamp To change a filter, click on the blue hyperlinked text. In this example, the user can click on "Timestamp" to change the filter from Timestamp, to any of the other options.		
		Transaction Time Event Type Object ID Object Name Notification		
		Note: Multiple filters may be run simultaneously. This is the filter icon. When filters are active, the icon will change:		
5	Export	Generate metadatabase reports in PDF or CSV format. See below.		
6	Scheduled	Click on this to create and manage scheduled metadatabase reports. See		
3	Reports	below.		
7	Go to Time	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. Then click the arrow icon.		



5.3.1.1 Scheduled Metadatabase Reports



Click on this icon to open the scheduled report window.



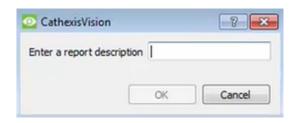
All created reports will be listed here.

First, click **Add** to create a report. Then **edit** to define the reporting schedule. See below for more detail.

To create, edit, or delete a report, select the entry and click on the corresponding button.

New Scheduled Report

Click Add.



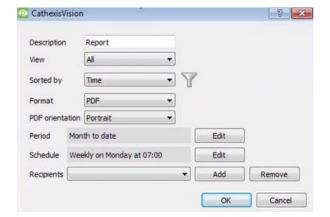
Give the report a description.

Click OK when done.

Once the new report is listed with the other reports, select it for editing. Define the reporting schedule.

Either right-click the entry and select schedule, or select the entry and click the schedule button at the bottom of the screen:

Schedule
.



Edit the **description** (if needed).

Edit **Viewing** options.

Select the "Sorted by" option.

Select the Format.

Select the **orientation** of the Format.

Select the **period** to be reported on.

Define the **Schedule** for the report.

Add/remove recipients to whom reports will be sent.

Add recipient:

Remove recipient:

Click **Add** and enter the email address of the recipient. Multiple recipients may be added. All recipients receive emails.

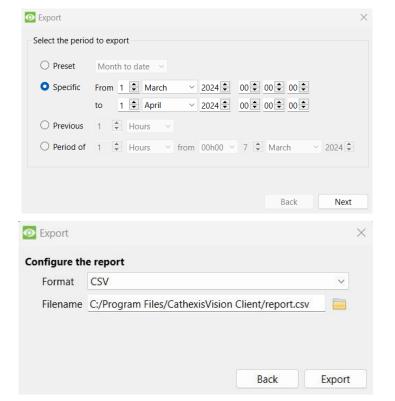
Select the recipient from the dropdown menu. Click **Remove**.



5.3.1.2 Generate Metadatabase Reports



To open the **Export** window, click on this icon.



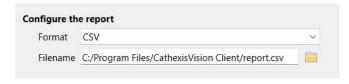
Select the **Period** to export. Enter the required details.

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.

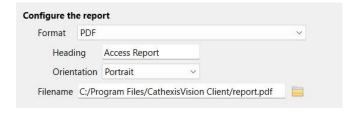
Edit the **Filename** using one of the following options:

- Enter the file name straight into the text field (replacing **report.csv**). OR



Click this icon to choose a new 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** using one of the following options:

- Enter the file name straight into the text field (replacing **report.pdf**). OR



Click this icon to choose a new folder and filename.

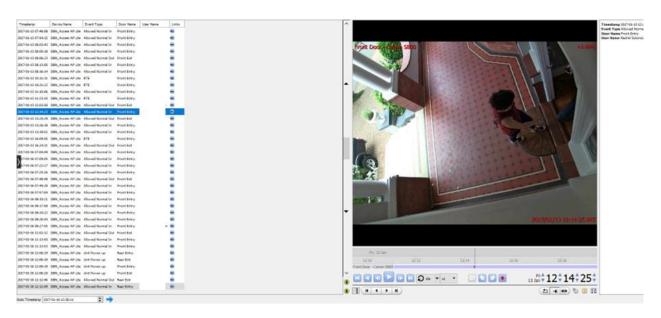


5.3.2 Viewing an Entry's Associated Recording

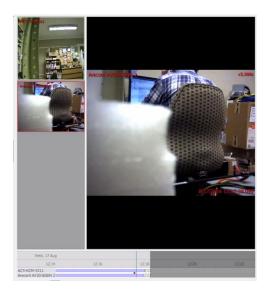
In the new video option, the video player is embedded in the database view. This player uses the same timeline features as the CathexisVision Cameras Tab.

To view an associated recording, left-click on a database entry which has this icon in the **Links** column:

. Then click play in the video player.



5.3.2.1 Reviewing Multiple Cameras



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

To review a camera, select a thumbnail.

5.3.2.2 Device Event Metadata

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

Timestamp 2024-03-06 12:13:21
Event Type RTE
Door Name Front Entry
User Name



5.3.3 Archive Selected Database Recordings

Archiving video from the database follows the same process described above, in section 4. Archiving.



Note: 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 or not appear, depending on whether they are enabled in the feed at the time of archiving.

(Privacy zones may be enabled or disabled by right-clicking on the feed of video being reviewed, via the database tab).

5.4 Object Classification Database



The **object classification database** allows users to review recordings associated with the tracking and classification of objects. It is an integration database. Navigate to the object classification database in the same as the integration database, described above. This section provides a brief overview of the elements of the integration database that are unique to the object classification database.

Note:

- → **Object classification database** must be enabled in video analytics and configured. Consult the **CathexisVision Setup Manual** for more information on how to do this.
- → Object classification **analytics** must be configured. Consult the **CathexisVision Setup Manual** for more information on how to do this.



5.4.1 Recordings List

Start time	Camera name	Category	Classification
2024-03-07 14:33:09	Driveway - Dahι	vehicle	truck
2024-03-07 14:33:09	Driveway - Dahι	vehicle	truck
2024-03-07 14:33:09	Kitchen Door - F	person	person
2024-03-07 14:33:14	Inside Kitchen (F	person	person
2024-03-07 14:33:14	Inside Kitchen (F	person	person
2024-03-07 14:33:15	Driveway - Dahu	vehicle	car

The recordings listed on the left side of the database indicate the details of the recording. In particular, they indicate the object classification that was made.

Click on one of the recordings in the list to play the video in the database video player (below).

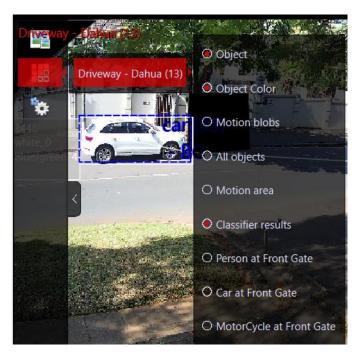
5.4.2 Database Video Player



The video player will indicate recording information, such as:

- Camera name.
- Overlays (if enabled and selected see below).
- Recording start and end time. This
 refers to the times when the
 classified object enters and leaves
 the scene.

5.4.2.1 Overlays



To display overlays:

→ Hover over the left side of the video player.



→ Click the arrow that appears.



- → Select the overlays button.
- → Select the relevant camera.
- → Select the desired overlays from the list.

Note: multiple overlays can be selected.



5.4.2.2 Recording Metadata

Category vehicle
Classification car
Color white
Alternate color black
Size: wxh (cm) 0x0
Start time 2024-03-07

14:33:26 **Lifetime (sec)** 14 On the right side of the database, metadata about the recording will be displayed. Most of this is also displayed in overlays (if enabled) and in the recordings list information.

The metadata panel the user to quickly review the object classification information.



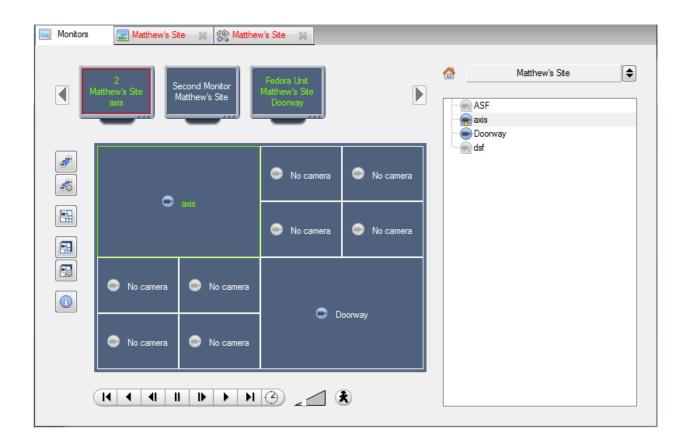
6. Monitors Tab

This tab will only be available if the system administrator has given the user monitor access rights.

The **monitors tab** gives full control over the Video Wall. Here, one can change the layout, and define camera sequences and salvos.

Because this tab deals only with the configuration of the Video Wall, there will be no video playing on the interface. Only the names of cameras and where they are placed in the layout will be visible.

The next section deals with the Video Wall Software, which will reflect the settings configured here.



6.1 Open a Site on a Screen

The list of monitors will represent 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:



The monitor with a red border will have its camera layout displayed below it.



6.1.1 Layout

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

6.1.1.1 Recall a Layout



To bring up a particular layout on a screen, click on this icon. Select the desired layout name.

6.1.2 Sequence

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

6.1.2.1 Run a Sequence

- 1. Click on a camera panel.
- 2. Click on this icon.
- 3. Select the relevant sequence from the drop-down menu.

6.2 Salvo

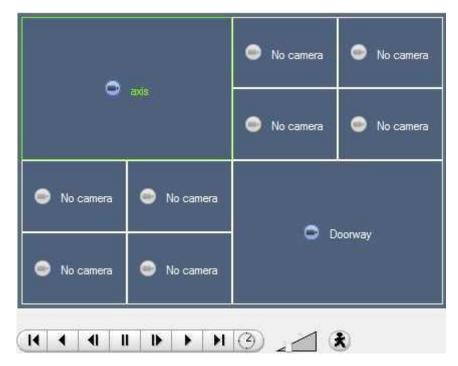
A Salvo is a set of layouts. This means that the layout of cameras on the monitor will change, running through a set order, using the pre-defined Layouts.

6.2.1 Run a Salvo

- 1. Click on a layout panel.
- 2. Click on this icon
- 3. Select the relevant Salvo from the drop-down menu.

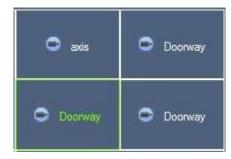


6.3 Virtual Cameras interface



The virtual cameras interface is the interface where the user can:

- See the Layout that the cameras will take on the selected monitor.
- See what cameras are in which panels.
- Control the overlays on each camera.
- Use the Playback controls to review video on the Monitor.



Note: When the user selects a camera, the camera's border and name will become green.

6.3.1 Individual Panel Settings

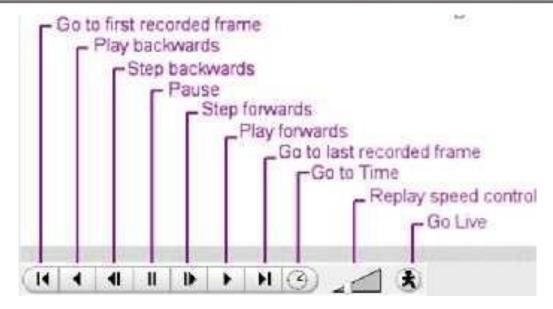
To change the settings of an individual panel, middle-click on the panel. This will bring up the following menu:

Set no camera	This 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 (Review Controls).
Next video format	This will cycle through the available video feeds that are available on the selected camera.



6.3.2 Review Controls







7. System Alerts and Alarms

Technical alarms and alerts will be received via the Alarm Gateway and/or the main CathexisVision interface, if there is a system error. This section explains the kinds of technical alarms and alerts that may be received, and what a sample alarm looks like in the interface.

Note: This does **not** deal with receiving alarms to the Alarm Gateway. Consult the **Alarm Management Gateway Setup and Operation Manuals** for information on this aspect of technical alarms.

7.1 Types of Technical Alarms

A single **Technical Alarm** can send multiple different errors. Here are some examples:

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



7.2 Example: Database Technical Alarm

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

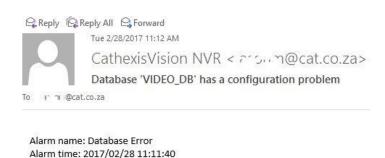
7.2.1 Notification Icon



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.

7.2.2 Send Email



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

7.2.3 Call Base-Station

Server: NVR-TEST-PC



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



8. Audio Procedures



The microphone and speaker icons on the menu bar (at the top right of the screen) represent the two local audio hardware resources: **local audio input** and **local audio output**.

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

Look at these icons to see the current state of audio interaction. Run the 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**:

8.1 Stop/Listen to a Remote Site

8.1.1 Listen Via Resource Panel

Open the Resource Panel for the remote Site and double-click the remote microphone to listen to.

The local speaker goes green, indicating that listening is in progress. Move the cursor over the speaker to see a tool-tip describing the remote audio input that is being listened to. One should hear sound from the remote site.

8.1.2 Stop Listening via Resource Panel

Right-click the local speaker. Choose **Stop**.

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

8.2 Stop/Listen to Remote Live MPEG

8.2.1 Listen via Middle-click Camera Menu

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

Right-click the camera image. Select Listen from the menu.

The icon will change from grey to green, to indicate activity. One should also hear sound on the local speaker.



8.2.2 Stop Listening via Middle-click Camera Menu

Middle-click the camera image. Select **Stop listening** from the menu.

The icon will change from green to grey, to indicate inactivity. Sound on the local speak should stop.

8.3 Stop/Speak to a Remote Site

8.3.1 Speak to a Remote Site

Open the Resource Panel for the remote site. Double-click the remote speaker to speak through it. The local microphone goes green, indicating that speaking is in progress.

8.3.2 To Stop Speaking to a Remote Site

Right-click the local microphone. Choose **Stop call**. The local microphone goes grey, indicating that speaking is no longer in progress.



9. Other Procedures

9.1 Switch a Relay Output

Examples of switching a relay output include unlocking a door or activating 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 can be configured. 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. A popup menu offers the choice between Set Output or Pulse Output. Activate Set Output.
 - b. Select an option. Click **OK**.
 - 0
- c. 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. Alternatively, right-click and select **Clear Output**.

9.2 Pulse a Relay Output

For example, 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. 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 re-sets, it will return to black.

9.3 Manually Trigger a Site Action



Right-click the Site Action in the Resources Panel. Click **Execute**.

Note: This requires:

- 1) Site action setup
- 2) Assignment of Site action to resources panel
- 3) Appropriate access rights.



10. 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.

10.1 Open Video Wall



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

10.2 Interface

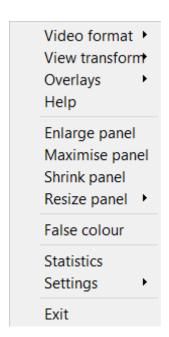
Panels configured in the <u>Monitors Tab</u> of CathexisVision (above section), will be immediately visible when the Video Wall is opened:





10.3 Right-Click

Right-click anywhere in the Video Wall to bring up the menu below.



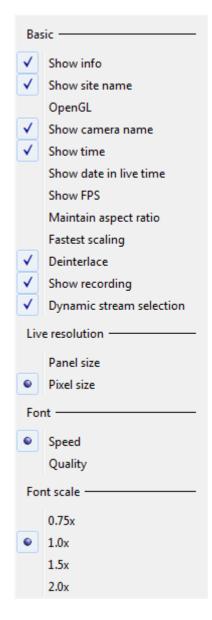
Video format	Select video format for camera in selected panel.	
View transform	Transform video for camera in selected panel.	
Overlays	Select overlay to display from available overlays, enable default overlays, or disable overlays for the selected panel.	
Help	Display help screen for basic camera controls.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



10.3.1 Settings

Right-click anywhere in the Video Wall. Select **Settings**.

The settings menu is divided into four sections: Basic, Live Resolution, Font, and Font Scale.



Basic Settings			
Show info	Displays information about all panels as an overlay.		
Show Site name	Shows the name of the connected site above Video Wall panels.		
OpenGL	Uses OpenGL.		
Show camera name	Displays camera names for all panels.		
Show time	Displays time for all panels.		
Show date in live time	Includes the date when time is displayed on live video.		
Show FPS	Displays frames per second for all panels.		
Maintain aspect ratio	Keeps aspect ratio of cameras for all panels.		
Fastest scaling	Uses fastest scaling for all panels (non-OpenGL setting).		
Deinterlace	Uses deinterlace for all panels.		
Show recording	Shows recording icon in panel for all cameras which are recording.		
Dynamic stream selection	Enabled by default. This selects the correct stream based on the display size / resolution when a camera has multiple streams.		
Live Resolution Set	tings		
Panel size	Select whether live video resolution is based on		
Pixel size	Panel size or Pixel size.		
Font Settings	Font Settings		
Speed	Select whether OpenGL settings should optimise fonts for Speed or Quality .		
Quality			
Font Scale Settings			
Select the size to which all Video Wall fonts will be scaled.			



11. Conclusion

Note: This manual was designed to deal with operating procedures.

For more information about the CathexisVision software, consult the *CathexisVision Setup Manual* (https://cathexisvideo.com/resources/brochures-manuals/).

For support, email support@cathexisvideo.com