

Eagle Eye Application Note - AN028

Eagle Eye Embedded History Browser and Video Downloads

2024-06-28 Revision 1.0

Target Audience

This Application Note is intended for all end users of the Eagle Eye Cloud VMS. Anyone who requires viewing historical video will benefit from knowing how to use the History Browser and will need to download video data files from the VMS. No prior background knowledge is needed.

Introduction

The Eagle Eye Cloud VMS provides on-demand access to recorded video through the History Browser. Accessing the History Browser for a camera will give access to the full recording history of the camera for the length of the retention period, with events marked as color ranges in the Timeline to make it easy to search through. The History Browser provides multiple ways of accessing and recalling historical video, and simplifies saving and managing video clips, creating downloadable video requests, and archiving video for case management. Video data can be both downloaded on the local machine and archived in the Eagle Eye Cloud for later retrieval. The History Browser is available in all Editions of the VMS (Standard, Professional, Enterprise).

Background

The Eagle Eye Cloud VMS History Browser recalls video for historical review in two ways:

1. **Full Cloud Application** – Video is requested from the Eagle Eye Cloud Data Center and loaded in the player upon opening the History Browser. Additional video is requested and loaded from the cloud during quick scrubbing from the Timeline, Event Search, Calendar, or Time Stamp Selection. This video is displayed in the low-resolution preview stream until pressing play. Pressing play initiates a request from the cloud for the full-resolution video stream.

2. **Local Storage CMVR Application** – Video is requested from the CMVR upon opening the History Browser. Additional video is requested and loaded from the CMVR during quick scrubbing from the Timeline, Event Search, Calendar, or Time Stamp Selection. This video is displayed in the low-resolution preview stream until pressing play. Pressing play initiates a request from the CMVR for the full-resolution video stream.

Functionality

The Eagle Eye Cloud VMS History Browser is accessed by selecting the History Browser icon in either of the two locations detailed below.

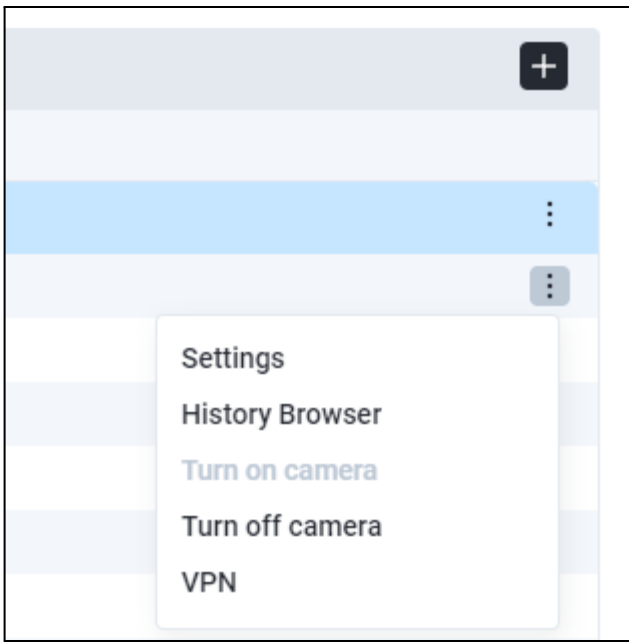
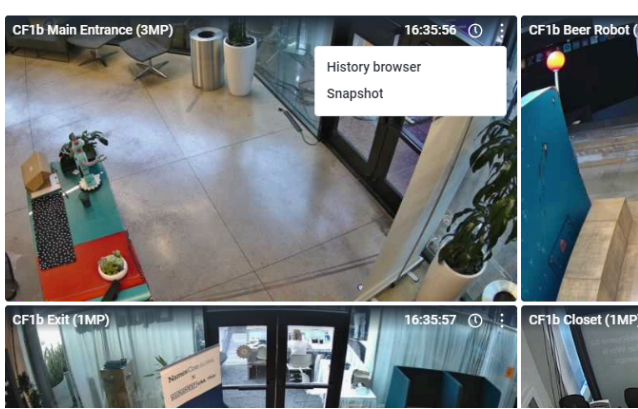
 <p>A screenshot of a dashboard interface. A vertical menu is open, showing several options: 'Settings', 'History Browser' (highlighted in blue), 'Turn on camera', 'Turn off camera', and 'VPN'. A plus sign icon is visible in the top right corner of the menu area.</p>	 <p>A screenshot of a video preview pane showing a 2x2 grid of camera feeds. The top-left feed is labeled 'CF1b Main Entrance (3MP)' and shows a person sitting at a table. A white overlay box with the text 'History browser Snapshot' is positioned over this feed. The top-right feed is labeled 'CF1b Beer Robot'. The bottom-left feed is labeled 'CF1b Exit (1MP)' and the bottom-right is 'CF1b Closet (1MP)'. A timestamp '16:35:56' is visible in the top right of the grid.</p>
<p>Select the History Browser icon within the Dashboard, under the Actions column.</p>	<p>Select the History Browser icon within the Preview Stream Video Pane.</p>

Table 1: History Browser icon selection and example image of the Preview Image Video Pane

Note that selecting the History Browser icon will open the feature in a new browser window.

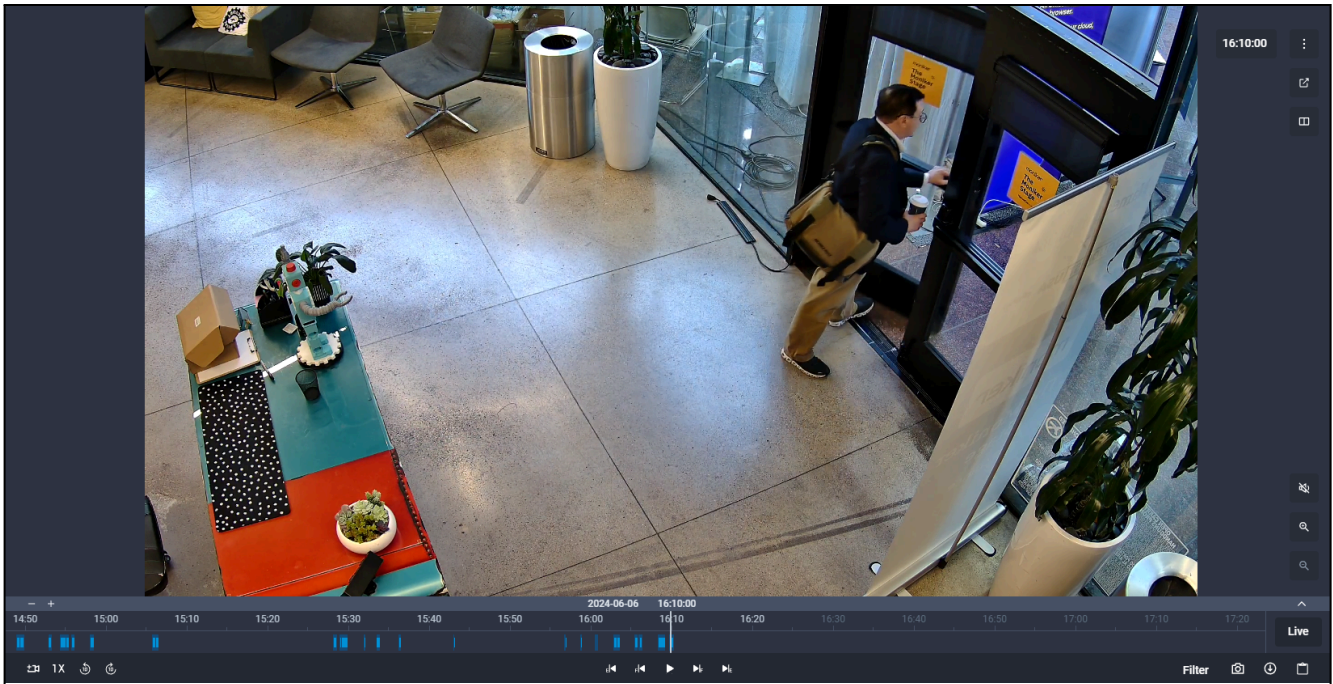


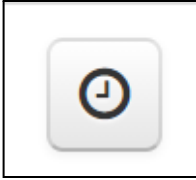
Image 1: Example History Browser view

From the History Browser, users can access historical video for review and management. The History Browser functions include the following:

- **Video Timeline** – Located at the bottom of the browser. Allows for users to click and drag through preview video history. Time intervals are available for quickly scrubbing through long events and in identifying activity over a long period of time. Options include intervals of 1 minute, 10 minutes, 2 hours, or 8 hours. See the Video Timeline Color Key below for a better understanding of what each color within the Video Timeline indicates.
- **Video Playback Controls** – Located at the bottom-center below the Timeline. Allows users to play, pause, advance, and reverse full video playback.
- **Video Playback Variable Speed Controls** – Located to the left of Playback Controls. Allows users to select the playback speed: 0.5x, 2x, 4x, 8x.
- **Video Clip Creator** – Users can hold Shift and click to select start and stop points of an event block to create custom clip durations.
- **Video Timeline Event Blocks** – Blue and light blue areas highlighted on the Timeline. Blue indicates full video recordings, while light blue indicates that Motion Events were detected, activating the full video recording.
- **Full Video Frame Snapshot** – The Snapshot icon is located at the bottom of the browser window. This allows users to save a full-resolution snapshot of the current video frame to the Archive folder “Snapshots” with a single click.
- **Clip Link Copy** – The Clipboard icon is located at the bottom-right corner of the browser window. This allows users to auto-save a secure link of the selected timestamp or customized clip to their workstation clipboard for copy/paste functionality.
- **Export** – The Export icon is located at the bottom-right corner of the browser window. This allows users to request a clip at the current timestamp to be made available within the Downloads section of the Navigation panel in the main user interface.

Files Tab: Archive and Downloads

Under the Files Tab on the left-hand side of the VMS you will find two subcategories, Files and Archive.



Archive – this feature in Eagle Eye’s cloud storage allows you to save video clips outside of the default retention system and share them via link to anyone. The Downloads tab is utilized for downloading videos and accessing clip details.

Downloads Tab

You can download a video to your computer, in the form of a standard MP4 file, or a ZIP file containing multiple MP4 files. Click the ‘Export’ button (which is a circle with a down arrow) to see the video download dialogue. It’s located at the bottom-right. You will see the export menu, which will allow you to edit all of the clip’s parameters.

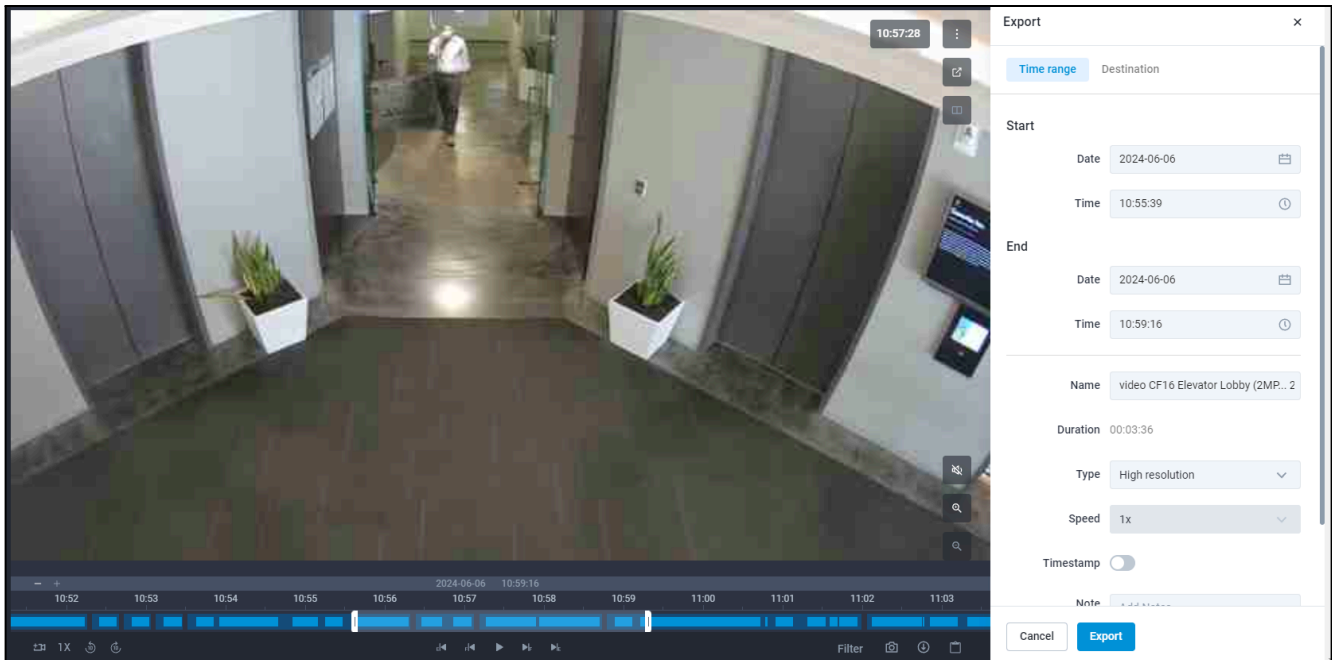


Image 2: Export Menu

An area is selected based on your selected position in the timeline when clicking ‘export.’ Your selection is highlighted in light gray with white markers on each end.

Click on ‘Type’ to see other options. The ‘High Resolution’ option selects the full-resolution video, not a preview video. You can download the full video or the preview video. Select ‘Preview Timelapse’ and you will see ‘Speed’ appear. This speed applies to the preview video and you can select up to 16 times normal speed. ‘Bundle’ will give you both the full and preview video. If you want to download a longer video segment, you can specify a beginning and end time at the top of the download dialogue. Once

you click export, it will create a line item under the Downloads tab where you can download your selected clip.

Name	Download availability	Created	Size
video Amsterdam 2024-05-16 10:07:04	Expired	2024-05-16 04:37:25	
video Anywhere Loading Dock 2024-05-15 15:30:52	Expired	2024-05-16 04:33:35	
Video CF16 Library (2MP) 2024-04-12 12:57:45	Expired	2024-04-17 16:58:09	
Video CF16 Lobby Fisheye (10MP) 2024-03-25 18:38:28	Expired	2024-03-25 20:14:31	
Video CF5 Entrance Fisheye (5MP) 2024-03-25 20:05:38	Expired	2024-03-25 20:11:59	
Video CF16 Elevator Lobby (2MP) 2024-03-21 07:39:42	Expired	2024-03-21 07:53:55	
Video CF1b Retail (2MP) 2024-03-20 13:39:08	Expired	2024-03-20 15:18:54	
timeLapse CF1b Main Entrance (3MP) 2024-03-18 03:19:44	Expired	2024-03-18 11:09:15	
video Amsterdam 2024-03-18 03:19:44	Expired	2024-03-18 11:09:15	
timeLapse CF8 Open Work Space 3 (2... 2024-03-18 03:19:44	Expired	2024-03-18 11:09:14	
video Boat Launch PTZ (5MP) 2024-03-18 03:19:44	Expired	2024-03-18 11:09:14	
Video CF1b Main Entrance (3MP) 2024-03-16 09:19:38	Expired	2024-03-18 10:33:57	
Bundle CF1b Main Entrance (3MP) 2024-03-16 08:25:06	Expired	2024-03-18 10:33:34	
Bundle CF1b Hallway (3MP) 2024-03-13 21:44:23	Expired	2024-03-13 23:03:49	
Video CF8 Elevator Lobby (2MP) - Camera Direct 2024-03-13 09:12-	Expired	2024-03-13 09:44:57	
Bundle Anywhere Loading Dock 2024-03-13 07:20:22	Expired	2024-03-13 07:51:42	
Video Anywhere Loading Dock 2024-03-13 07:20:22	Expired	2024-03-13 07:50:44	
Video CF1a Wall-E 2024-03-12 17:05:36	Expired	2024-03-13 05:35:23	

Image 3: Example Download Tab view

Archive Tab

Clicking 'Archive' will show the Archive menu, where you can choose the location to save the video in your own cloud archive. Within this folder, you can also create folders to organize your saved video files.

Name	Created	Size
00 Demo Videos	2024-05-14	-
zz_Archive Directories	2024-05-14	-
Reports	2024-05-13	-
Vandalism at rear entrance	2024-05-13	3.9 MB
Person damaging camera - share with security	2024-05-13	-
Video shared with Police for incident on 04222024	2024-05-13	2.0 MB
FBI Request	2024-03-18	1.0 GB

Image 4: Example Archive view

The Archive gives the ability to store your clips beyond your cloud retention period and also provides functionality to share files and folders with a clickable link to anyone. Video File Details can be accessed from within the Archive view, and include by default the type of video (Video, Bundle, or Preview) followed by the name of the camera and the time. This will be the name of the MP4 video file or the name of the bundle of MP4 files in ZIP format. (You can change this name. Clicking on the 3-dot overflow menu, you will see various menu options appear, as mentioned below.)

Created	Size	
2024-05-15	-	⋮

- Details
- Copy link
- Link unshare
- Move
- Copy
- Download

Delete folder

Image 5: Example History Browser view

Under Details, there is a place for notes and tags under the Info tab. The name and the notes will be searchable later. Click the “Time Stamp” checkbox. Your video can have the date and time overlaid with the time zone included. From this menu, you can also copy the video link, share a link with a specific expiry date, and unshare a previously created link. This is utilized when you want to share a clip and and review with someone else without downloading the video. Shares can be deleted or deprecated at any time. Viewing these clips does not require the reviewer to have an Eagle Eye Networks account.