



Eagle Eye Cloud Video Management System User Guide

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Glossary

Important Terms

Eagle Eye Bridge — A cloud-managed, on-premise appliance that connects cameras to the cloud data center in the Eagle Eye Cloud VMS. It acts as a bridge between the Eagle Eye Cloud and the on-site cameras. The bridge buffers the video in case the internet connection goes down, and performs the encryption, data deduplication, bandwidth management, motion analysis, and compression of the video. Eagle Eye Bridges have a version for wireless cameras as well.

Eagle Eye Cloud — The server that Eagle Eye Bridges and CMVRs communicate with. The infrastructure has been specifically designed for video and is directly managed by Eagle Eye personnel to provide maximum security, performance, and availability.

Eagle Eye Cloud Managed Video Recorder (CMVR) — CMVRs have all the functions of the Eagle Eye Bridge and provide on-premise storage in addition to the cloud storage available from the Eagle Eye Cloud. CMVRs implement the Eagle Eye Cloud-Premises Flex Storage that allows the customer to select the amount of videos sent to the cloud and the amount stored on premises.

Eagle Eye Cloud-Premise Flex Storage — Storage plan that lets customers choose the percentage of video stored in the cloud and the percentage stored on premise. Video can be stored entirely on premise, entirely in the cloud, or any combination based on the available bandwidth, customer security requirements, the number of cameras, and the application. You can easily and dynamically adjust where videos are stored.

Eagle Eye Cloud VMS Analytics — Suite of analytics offered on the Eagle Eye Cloud VMS platform. These analytics include People Counting, Line Crossing, Intrusion Detection, Loitering, and Camera Tampering.

Eagle Eye Complete Privacy Encryption — Technology implemented in the Eagle Eye Cloud VMS and the Eagle Eye Video API Platform that encrypts and keeps video private and secure. Data is encrypted at rest and during transmission.

Eagle Eye First Responder Real-Time Video Access — Setting that allows Eagle Eye Cloud VMS administrators to designate first responders and determine the groups of cameras they can access during an emergency. Administrators can also specify personnel authorized to activate emergency video feed.

Eagle Eye Intelligent Bandwidth Management — Technology that adjusts video transmission and bandwidth dynamically, prioritizes transmissions, and verifies internet connection functionality.

Eagle Eye Video API Platform — Cloud service provided by Eagle Eye Networks for recording, managing, and accessing video from cameras and video sources of all kinds. This service includes the Eagle Eye Bridge or an Eagle Eye CMVR, the VMS cloud recording system, redundancy, and the big data framework, analytics, and alerts. The entire platform is accessible via the API.

Key Images – Images extracted from the video recording based on the amount of motion and activity. Key images can improve navigation.

On-Premise – Either the hardware or the storage of video at the customer’s location.

Power over Ethernet (PoE) – Camera is powered from the Ethernet port (in supported devices) through the Ethernet cable, and therefore does not need to be plugged into a dedicated power source.

PTZ –Pan-tilt-zoom (PTZ) cameras can be added to the Eagle Eye Cloud VMS; their pan, tilt, and zoom controls can be manipulated directly from the Live View.

Trusted Device – A mobile device or a browser on a computer associated with an Eagle Eye user that has previously been securely accessed using Two Factor Authentication.

Two Factor Authentication (2FA) – An extra layer of security that only allows access to an Eagle Eye Account and cameras from a trusted device.

Overview

The Eagle Eye Cloud Video Management System (VMS) is an AI-powered, cloud-based service that replaces traditional digital video recorders (DVRs) and network video recorders (NVRs). The system communicates with a secure, redundant cloud architecture that provides a web-browser-based interface and comprehensive mobile applications for both iOS and Android. The Eagle Eye VMS is an open platform that supports any camera and has a publicly available API that can be accessed through our Video API Platform.

The Eagle Eye Cloud VMS is used for traditional surveillance applications such as securing buildings, properties, apartment complexes, factories, critical infrastructure, police stations, retail stores, and restaurant chains. Using smart data captured by your VMS enables you to gain visibility across your business, react swiftly to opportunities, and improve overall processes and performance. Additionally, it is useful for business optimization. Video surveillance of employees can improve reliability, efficiency, and customer service.

Audience

This guide is intended for end users of the Eagle Eye Cloud VMS. If you are a Reseller looking for more information on Reseller-specific functionalities, contact your Eagle Eye Networks representative. You can also find more information on the [Product Features](#) section of our website.

EDITIONS

Eagle Eye Cloud VMS is available in the following editions:

- **Standard** – Designed for small businesses and franchisees with a limited number of locations and users. The Standard Edition is for businesses that value remote access to surveillance video and cloud storage at a reasonable cost.
- **Professional** – Designed for mid-sized (10–25 locations) and rapidly growing business operations. The Professional Edition includes features to better manage large quantities of locations, users, and cameras.
- **Enterprise** – Ideal for large, distributed, and multinational businesses. The Enterprise Edition supports an unlimited number of users and provides a sophisticated access management solution and advanced operational reporting to meet audit and regulatory requirements.

Note: If a feature covered in this user guide is limited to a certain edition, it is always mentioned in the content.

Tip: Identify your current edition by clicking the drop-down arrow next to your username from anywhere in the VMS.

For more information on editions and how to upgrade, please contact your Reseller.

SYSTEM REQUIREMENTS

As the Eagle Eye Cloud VMS is cloud-based, you only need a web browser and internet access.

Eagle Eye Cloud VMS supports the latest versions of the following browsers:

- Chrome
- Safari
- Edge
- Firefox
- Opera

The Eagle Eye Viewer mobile app is available on both the Google Play Store (for Android) and App Store (for iOS).

BANDWIDTH CONSIDERATIONS

Important: The Eagle Eye Cloud VMS is a cloud-based solution designed specifically for customers with internet connectivity. Operating the Eagle Eye Cloud VMS requires an active internet connection.

In general, higher bandwidth improves system performance. Upload speed is the key element affecting bandwidth usage of The Eagle Eye Cloud VMS, but download speed affects performance as well. For more information about bandwidth optimization, see the [application notes](#) section of our website.

If bandwidth is a problem, potential alternatives are lower-resolution cameras or cloud-managed video recorders (CMVR) with higher resolution.

VMS OVERVIEW

Basic operation of the Eagle Eye Cloud VMS is simple: Cameras communicate with a bridge or CMVR device on your local network. That device communicates through the internet connection with the cloud, where the video, settings, and other data are stored. You can access that information from anywhere with an internet connection, either through a web browser or our mobile app.

Digital and analog cameras communicate with an Eagle Eye Bridge or CMVR located at the customer site. This communication can occur either over the network digitally by Ethernet, wirelessly, or through an analog coaxial cable connection.

The Bridge or CMVR records the video and audio initially to the local storage on the device. This step is necessary for buffering the video and backing up the latest files in case the internet connection fails. There are a range of options for Bridges and CMVRs, that can be configured for customer needs, depending on the camera subscriptions and device types.

Once the data is recorded to local storage, the Bridge or CMVR processes the video and analyzes it for motion. If motion is detected, the video is tagged with object and motion information. Then the video is encrypted and transferred to the Eagle Eye Cloud for longer-term storage. When using a CMVR, video can also be stored locally as well as sent to the cloud. A CMVR provides complete flexibility for audio and video storage. Different retention periods can be set for on-premise (local) and cloud storage for each camera based on user needs. It is possible to transmit low-resolution video to the cloud and keep high-resolution video locally.

Access both the live and recorded video by connecting to the Eagle Eye Cloud VMS using a web browser or the mobile application. Modify all configurations and settings through this cloud connection. If a video has not been transmitted to the cloud, or a live video feed is requested, the Eagle Eye Cloud quickly requests the necessary data or feed from the bridge or CMVR. This is considered “on-demand” viewing. There are also a few other ways to view video streams. If the web browser determines that the bridge is located on the same LAN as the browser, video streams directly from the bridge. A monitor connected directly to the bridge can be used as a video display for live video stream.

SECURITY

Security is crucial in a cloud-based environment. All data is encrypted from the moment it reaches the Bridge or CMVR and is only accessible through the Eagle Eye Cloud VMS. Stored Bridge and CMVR data is encrypted, so if a device is stolen, its data cannot be accessed. The Eagle Eye Bridges and CMVRs utilize outbound communication with the Eagle Eye Cloud. This means that the devices do not have any open ports, nor do they require any port forwarding on firewalls, making them inherently safer and more secure.

The Eagle Eye Cloud, although referred to as a single data center, is a series of data centers distributed throughout the world. These data centers communicate with each other and maintain connections to Eagle Eye Bridges and CMVRs. Data is protected through a redundant architecture where three copies of customer video are stored, making loss of any video highly unlikely.

AI VIDEO ANALYTICS

The VMS offers smart video analytics features to improve security and transform a video surveillance system into a tool for business optimization. Powerful artificial intelligence combined with cloud-based video retention automatically detect security risks and send alerts, freeing business owners and operators to focus on other aspects of their business.

LICENSE PLATE RECOGNITION (LPR)

Eagle Eye LPR is an AI-powered license plate recognition technology that works with any surveillance camera in all kinds of challenging conditions – increasing business security and efficiency while lowering costs. Eagle Eye LPR is an affordable, cloud-managed solution for accurate detection and recognition of license plates. Leveraging Eagle

Eye's powerful artificial intelligence (AI), the system does not require on-site hardware or maintenance. Innovative new features and improvements are instantly delivered to customers via the cloud. Eagle Eye LPR turns an existing ONVIF security camera into a highly accurate license plate reader.

HARDWARE

Hardware for the Eagle Eye Cloud VMS consists of three main components: a Bridge or CMVR, a switch, and cameras. Choosing the correct hardware is very important for your VMS to perform optimally.

BRIDGES AND CMVRs

Eagle Eye Bridges and CMVRs are critical components for Eagle Eye Cloud VMS operation. They connect the cameras (and other input devices) to the Eagle Eye Cloud. Without these devices, no data reaches the cloud, and no data or video can be seen by the user. This guide does not cover all functions performed by the bridges and CMVRs. It is important to understand that the Bridge or CMVR receives all video and audio from cameras. IP cameras are configured and controlled by the ONVIF camera protocol.

BRIDGE AND CMVR SECURITY AND MAINTENANCE

Bridges and CMVRs only communicate with the Eagle Eye Cloud; because of this, they only require outbound ports to be open in firewall configurations. This keeps the data on the Bridge or CMVR secure.

The Eagle Eye Bridges and CMVRs are remotely managed and maintained by Eagle Eye Networks. You do not need to perform any software, firmware, or security updates. All maintenance occurs automatically by the Eagle Eye Cloud VMS. This creates a more secure and reliable environment.

STORAGE

On Bridges, storage is intended only as a buffer to store the video for a short time in case bandwidth is not immediately available to transmit it to the cloud. CMVRs are designed for longer-term on-premise storage, depending on the model; however, the videos stored on the CMVR are still managed, controlled, and viewed from the Eagle Eye Cloud VMS. Even if using a CMVR, to view video, the encrypted data is sent through the cloud to the Eagle Eye Cloud VMS, allowing the video to be seen anywhere with an internet connection. This provides a consistent user experience regardless of the hardware type, as long as minimum upload bandwidth is available.

BRIDGE AND CMVR FAILURE

Bridges and CMVRs have similar components to servers and are therefore susceptible to hardware failures, such as problems with the power supply, hard disk, or general electronics. If the Bridge or CMVR fails, video recording will typically stop. With a Bridge, video that has not been transmitted to the Eagle Eye Cloud may be lost, and the Bridge will need to be replaced. A CMVR might need to be replaced, or it could be repaired (depending on its size). Replacing

a Bridge or CMVR is quick and painless because the configuration is stored in the cloud. The Eagle Eye Cloud VMS will push all the configuration for the Bridge or CMVR and cameras to the new device. The only work required is to physically replace the Bridge or CMVR. This is made possible by our Bridge Swap feature and Rapid Replacement. See the [application notes](#) section of the website for more information.

Note: Overloading a Bridge or CMVR or using a non-PoE switch when power is not directly available for the cameras can cause a system failure. Consult your Reseller to get the proper equipment for your needs and ensure the system is set up correctly.

CAMERAS

The Eagle Eye Cloud VMS supports thousands of camera models, not just those sold directly by Eagle Eye Networks. For a full list of supported cameras, please visit <https://www.een.com/support/camera-compatibility-digital-ip/>. If you do not see a particular camera listed, please refer to this [guide](#) on how to request support for a device.

The Eagle Eye Cloud VMS uses the ONVIF standard to communicate with digital IP cameras. If a camera is not compatible, it may be able to be configured for temporary use until fully compliant. Contact your Reseller to configure the device for use with the system.

OTHER CAMERAS

The Eagle Eye Cloud VMS supports analog cameras and HD over coax with the use of an additional encoder. Eagle Eye offers native support for standard definition analog cameras via specific model units. These units come with an adapter to allow up to 16 analog cameras to be connected directly via coaxial cable.

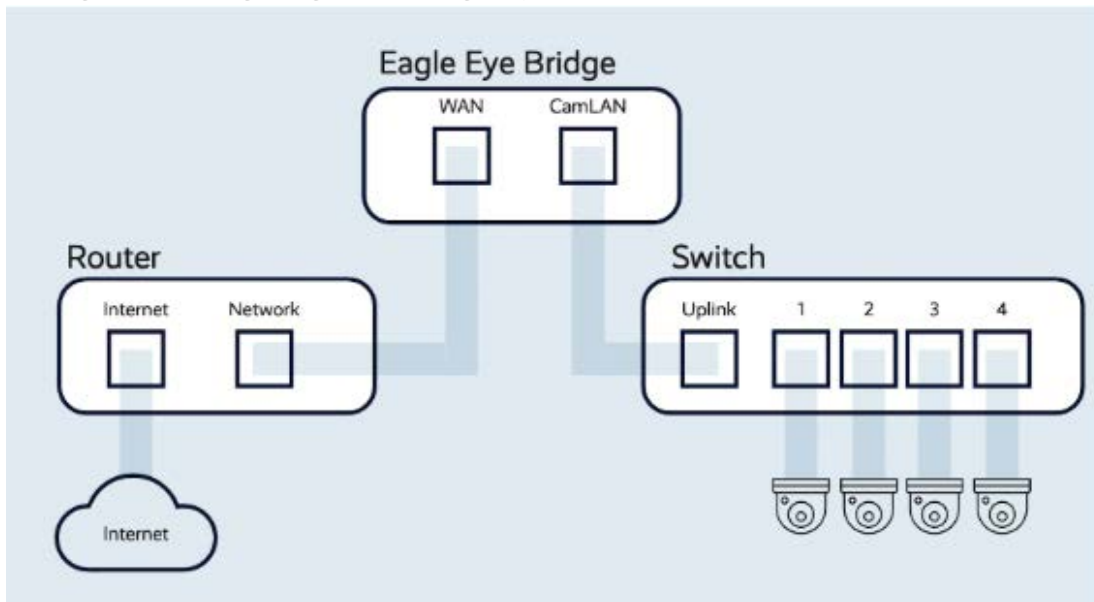
The Eagle Eye Combo Bridges support both NTSC and PAL. Additionally, the combo bridges have been tested with over 1,000 different analog cameras with 100% success.

EAGLE EYE VIDEO API PLATFORM

The Eagle Eye Video API Platform consists of a developer portal with documentation for software developers. It is intended to assist and guide developers in creating an integration of third-party tools or applications to the Eagle Eye Cloud VMS. The platform handles all of the heavy lifting, allowing developers to expand their desired ecosystem using the functions of the VMS. For more information, go to our [Eagle Eye Video API Platform](#).

WIRING

Figure 1. Wiring Diagram for Eagle Eye Cloud VMS



For optimal security, it's important to wire your hardware correctly. The cameras should be connected to a switch, and then the switch should be connected to the CamLAN port of the Bridge or CMVR. If you connect the switch to the WAN port, the camera IP addresses can be broadcast to the entire network. Please follow the wiring diagram in [Figure 1](#) when installing hardware for the Eagle Eye Cloud VMS.

Note: For information about wiring more complex systems, including hub-and-spoke systems, see the [application notes](#) section of our website.

Getting Started

Once the hardware for the Eagle Eye Cloud VMS has been installed and your account has been set up, you'll receive an email asking you to set a password for your VMS account. Follow the instructions in the email to finish setting up your Eagle Eye account.

The activation email expires in 24hrs, so be sure to set up your password before then. If you do not activate in time contact your Reseller so they can send you a new link.

Logging In and Out

1. Go to the web-based user interface for the Eagle Eye Cloud VMS: <https://login.eagleeyenetworks.com>
2. Enter your email address and password to log in to your account.

Note: If you do not know your login credentials, check your email account. You should receive login credentials in an email from **accounts@eagleeyenetworks.com**. When your account was created by Eagle Eye Networks or a Reseller, you should have received an email with a link to set your password. If you did not receive this email, please contact your Reseller.

Resetting a Forgotten Password

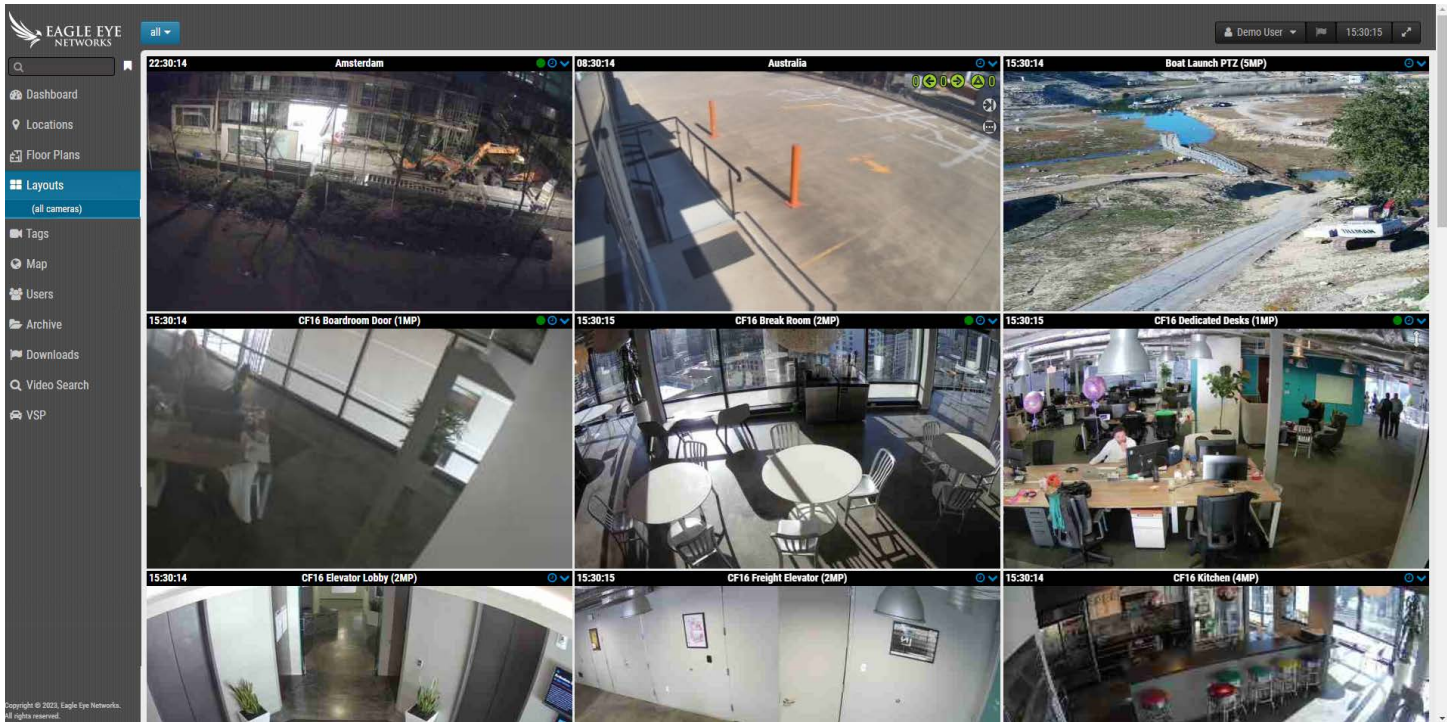
If you have forgotten your password, you will need to reset it by taking the following steps:

1. Click the **Reset your Password** next to "Forgotten Password" on the login page.
2. Enter your email address in the corresponding field on the newly opened page.
3. Click **Reset your password**.
4. Check your email for a password reset email from **accounts@eagleeyenetworks.com**. If you have not received the email after a few minutes, check your Spam folder or email quarantine.
5. Click the **Reset Password** button in the email.
6. Enter a new password, confirm it, then click **Change Password** to complete the process.

Initial View

When you first log into the VMS, the Layouts window opens. If your reseller has configured a Layout, you will see the cameras on that layout. If not, the window shows All Cameras available on your VMS subscription. See [Figure 2](#).

Figure 2. Initial View (All Cameras)



For more information about layouts, see [Layouts](#).

Using the Dashboard

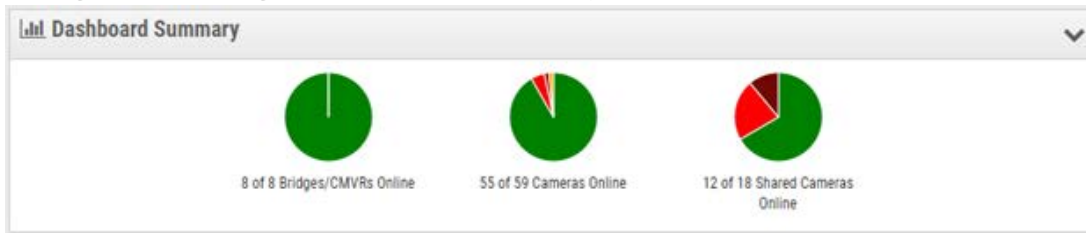
The Dashboard gives you an overview of the bridges and cameras in your VMS and their status. You can also track the health of your bridges, see cameras that are shared with you, and much more.

Important: To add a Bridge select the **...** icon on the Bridge/ Cameras header and select **Add Bridge** from the drop-down menu. To add cameras to an account, scroll to the bottom of the dashboard to the **Available Cameras** section.

Note: The Dashboard has several panels. You might not have access to all of them depending on your account, and they will not appear in your VMS. Contact your reseller for additional access options.

Dashboard Summary

Figure 3. Viewing the Dashboard Summary



The pie charts in the Dashboard Summary panel display the overall status of the devices in your VMS. There is a chart for Bridges/CMVRs, cameras, and shared cameras. Each chart shows the percentages of each status: **Devices Online**, **Devices Offline**, and **Internet Offline**. See [Figure 3](#).

Click the down arrow in the top-right corner to hide the charts.

To set up your profile and adjust your account settings, see [My Profile and Account Settings](#).

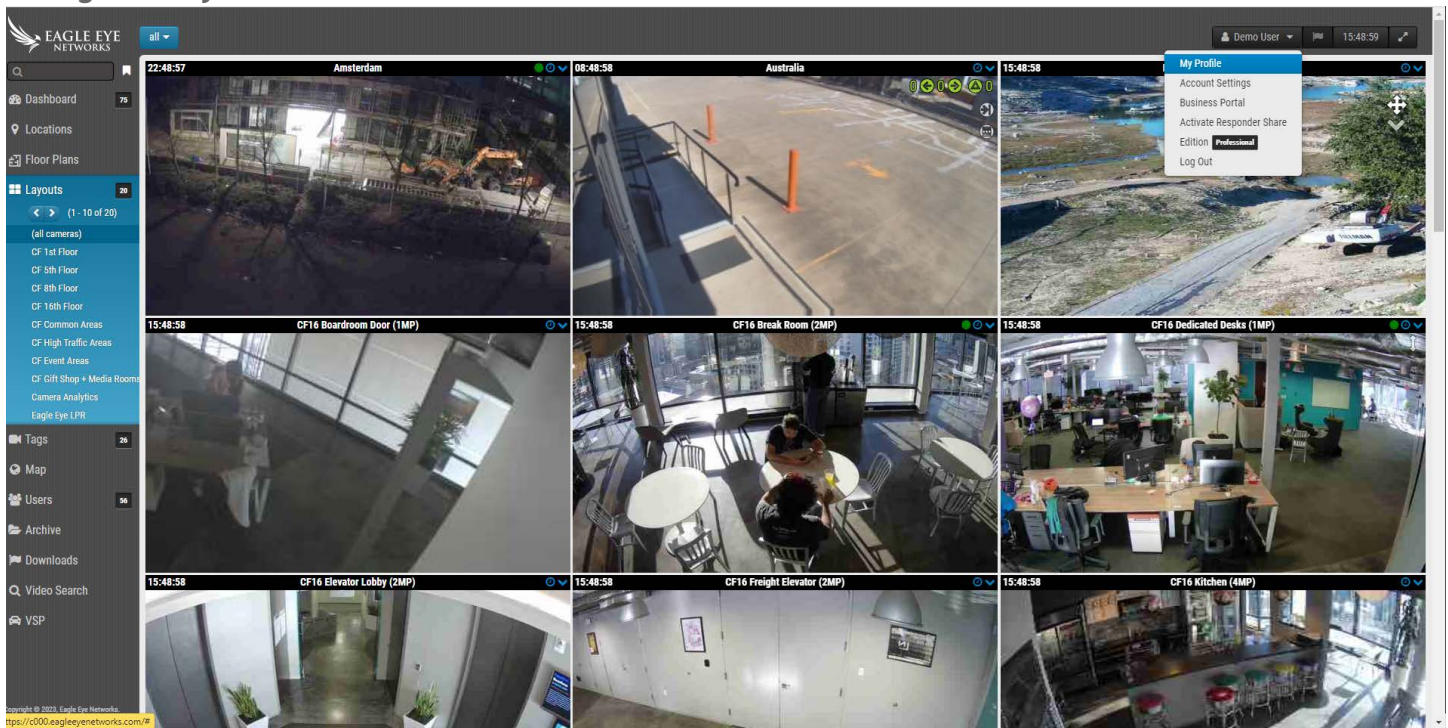
My Profile and Account Settings

Use the information in this section to set up your profile and account settings.

My Profile

To access **My Profile**, click on your name on the left side menu and click **My Profile** from the drop-down menu on the top right-hand side of the window. See [Figure 4](#).

Figure 4. My Profile



LOGIN

The **My Profile: Login** menu contains the following options:

- **Login (Email):** your email address. Changing this address will send an email to the new address with a Security Code that must be verified. Once verified, this will be the new email used to login to your account.

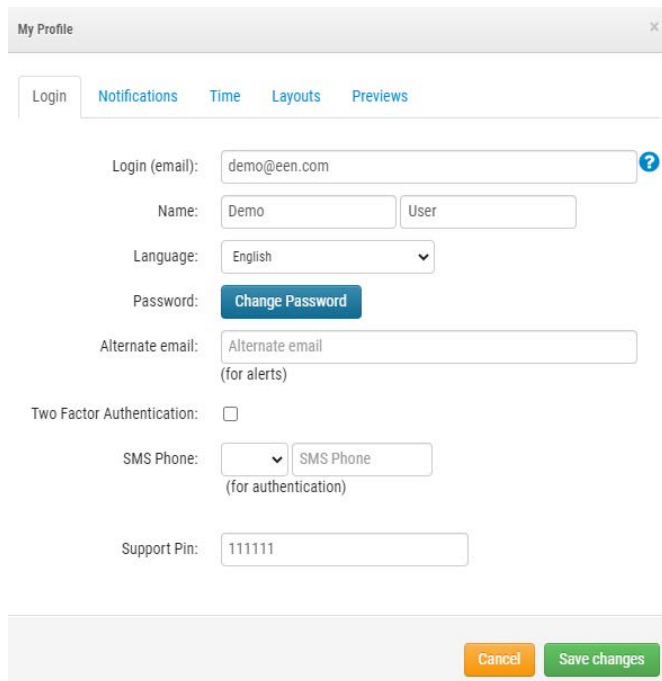
- **Name:** your First and Last Name. This is the name that will appear in the top right of the interface and is also used for emails and SMS.
- **Language:** choose the language for your account.
- **Password:** Change Password- click to change the login password for your user account.
- **Alternate Email:** A different email address other than the Login can be used in order to receive email alerts. If an email address is entered, all alert emails will be sent this address and not to the Login address. This alternate email is not used to login.

After enabling this, any changes to your profile will require two factor authorization. We highly recommend the use of this.

- **SMS Phone:** A phone number may be entered that can be used for two factor authentication. Adding or changing this number will send a Security Code via SMS that must be verified. Once verified, this will be the SMS number for your account.
- **Support Pin:** Provide this number to an Eagle Eye Networks Support representative to authenticate your access to the account as an authorized user when requesting remote support. The support pin is automatically generated per user, but it can be changed to any 6 digit number.

See [Figure 5](#) for an example of a **My Profile: Login** page.

Figure 5. My Profile: Login



My Profile

Login Notifications Time Layouts Previews

Login (email): demo@een.com ?

Name: Demo User

Language: English

Password: Change Password

Alternate email: Alternate email
(for alerts)

Two Factor Authentication:

SMS Phone: SMS Phone
(for authentication)

Support Pin: 111111

Cancel Save changes

NOTIFICATIONS

The **My Profile: Notifications** menu contains the following options:

- **Notify on Alerts:** Select which alerts you want to receive. All alerts can be classified as **High** or **Low**. Select **System All** if you want to receive alerts regarding offline devices or **System Location Specific** if you only want to receive alerts from specific locations.
- **When:** Select when you want to receive alerts: 24 hours, during work hours, during non-work hours or at custom times of the day. Work hours are set by the administrator.
- **Email Notifications:** Notifications are sent via email.
- **Push Notifications:** Notifications are sent to a mobile phone that is using the Eagle Eye Networks Viewer application. Note: notifications are not sent via SMS.

See [Figure 6](#) for an example of a **My Profile: Notifications** page.

Figure 6. My Profile: Notifications

My Profile ×

[Login](#) [Notifications](#) [Time](#) [Layouts](#) [Previews](#)

Notify on Alerts: System All ?
 System Location Specific
 High
 Low

When: ▼

Email Notifications:

Push Notifications:

[Cancel](#) [Save changes](#)

TIME

The **My Profile: Time** menu contains the following options:

- **Time Zone:** Select your Time Zone.
- **24 Hour Clock:** Select between 12 and 24 hour mode for the display of time.
- **Millisecond Display:** Select to display milliseconds in preview video.

See [Figure 7](#) for an example of a **My Profile: Time** page.

Figure 7. My Profile: Time

My Profile

Login Notifications **Time** Layouts Previews

Time Zone: US/Central

24 Hour Clock:

Millisecond Display:

Cancel Save changes

LAYOUTS

The **My Profile: Layouts** menu contains the following options:

- **Layout Rotation Interval:** Disable or select the frequency layouts are rotated in the Layouts menu.
- **Alphabetize Layouts:** Layouts are in alphabetical order by default. Uncheck this box to enable making changes to this order in **Layout Order**. If checked again, any changes to layout order are automatically reset, and layouts are reorganized into alphabetical order.
- **Layout Order:** Reorder layouts in the list via drag-and-drop so they show up in the Layouts menu in the desired order. Click **Save Changes** and reload the page in order for the setting to take effect.

See [Figure 8](#) for an example of a **My Profile: Layouts** page.

Figure 8. My Profile: Layouts

My Profile

Login Notifications Time **Layouts** Previews

Layout Rotation Interval: Disabled ?

Alphabetize Layouts:

Layout Order:

- CF 1st Floor
- CF 5th Floor
- CF 8th Floor
- CF 16th Floor
- CF Common Areas
- CF High Traffic Areas
- CF Event Areas
- CF Gift Shop + Media Rooms
- Camera Analytics
- Eagle Eye LPR
- Fisheye Cameras
- PTZ Camera

Cancel Save changes

PREVIEWS

Preview videos are shown in Layouts and when clicking the green check mark on the Dashboard. The following options affect how the preview videos are displayed, and what can be overlaid on them within the VMS.

The **My Profile: Previews** menu contains the following options:

- **Enable Media Shortcut:** Check this box to view Preview Video, Live View, and History Browser directly from the devices available in the same local network as your user. Media Shortcut is enabled in the Advanced

option under Bridge, in Bridge Settings. This box enables or disables Media Shortcut for the specific user, not for the Bridge.

Note: To use this feature, it must be enabled in both locations.

- **Show Motion Boxes:** Check this box to have a light-blue motion box around the detected motion in the preview video. The motion boxes indicate changing pixels, but do not represent object sizes.

Note: This option is not recommended for low bandwidth environments.

- **Show Analytics:** Check this box to show analytic counts overlaid on the preview video.
- **Show Plugins and Extensions:** Check this box to enable third-party information from installed plugins/extensions to display in the History browser.

Note: Third-party information must be configured separately. This checkbox only determines whether or not it is visible in the History browser.

- **Show Original Aspect Ratio:** Check this box to display the original aspect ratio of cameras in Layouts. This setting affects each frame of videos, and uses black bars to fill the remainder of the frame. If selected, it applies to all cameras, layouts and tags. If not checked, preview videos stretch to fit the available space.

Tip: To adjust the aspect ratio settings for individual cameras, go to a camera's **Camera Settings** → **Resolution**.

See [Figure 9](#) for an example of a **My Profile: Previews** page.

Figure 9. My Profile: Previews

My Profile

Login Notifications Time Layouts Previews

Enable Media Shortcut: ?

Show Motion Boxes:

Show Analytics:

Show Plugins and Extensions:

Show original aspect ratio:

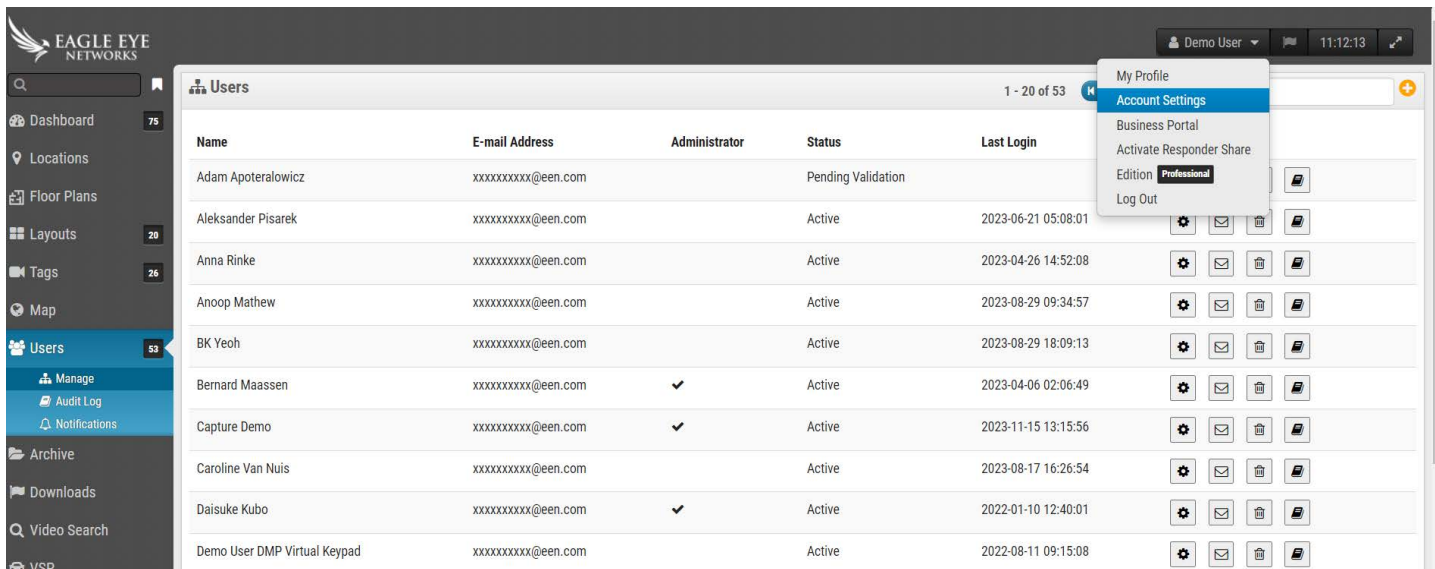
Cancel Save changes

Account Settings

This section contains information for changing the various account settings on your VMS.

To access Account Settings click on your name on the left side menu and click **Account Settings** from the drop-down menu on the top right-hand side of the window. See [Figure 10](#).

Figure 10. Account Settings



The screenshot shows the Eagle Eye Networks VMS interface. On the left is a navigation menu with options like Dashboard, Locations, Floor Plans, Layouts, Tags, Map, Users, Manage, Audit Log, Notifications, Archive, Downloads, Video Search, and VSP. The 'Users' section is active, showing a table of users. A dropdown menu is open over the user list, with 'Account Settings' highlighted. The table has columns for Name, E-mail Address, Administrator, Status, and Last Login.

Name	E-mail Address	Administrator	Status	Last Login
Adam Apoteralowicz	xxxxxxxxx@een.com		Pending Validation	
Aleksander Pisarek	xxxxxxxxx@een.com		Active	2023-06-21 05:08:01
Anna Rinke	xxxxxxxxx@een.com		Active	2023-04-26 14:52:08
Anoop Mathew	xxxxxxxxx@een.com		Active	2023-08-29 09:34:57
BK Yeoh	xxxxxxxxx@een.com		Active	2023-08-29 18:09:13
Bernard Maassen	xxxxxxxxx@een.com	✓	Active	2023-04-06 02:06:49
Capture Demo	xxxxxxxxx@een.com	✓	Active	2023-11-15 13:15:56
Caroline Van Nuis	xxxxxxxxx@een.com		Active	2023-08-17 16:26:54
Daisuke Kubo	xxxxxxxxx@een.com	✓	Active	2022-01-10 12:40:01
Demo User DMP Virtual Keypad	xxxxxxxxx@een.com		Active	2022-08-11 09:15:08

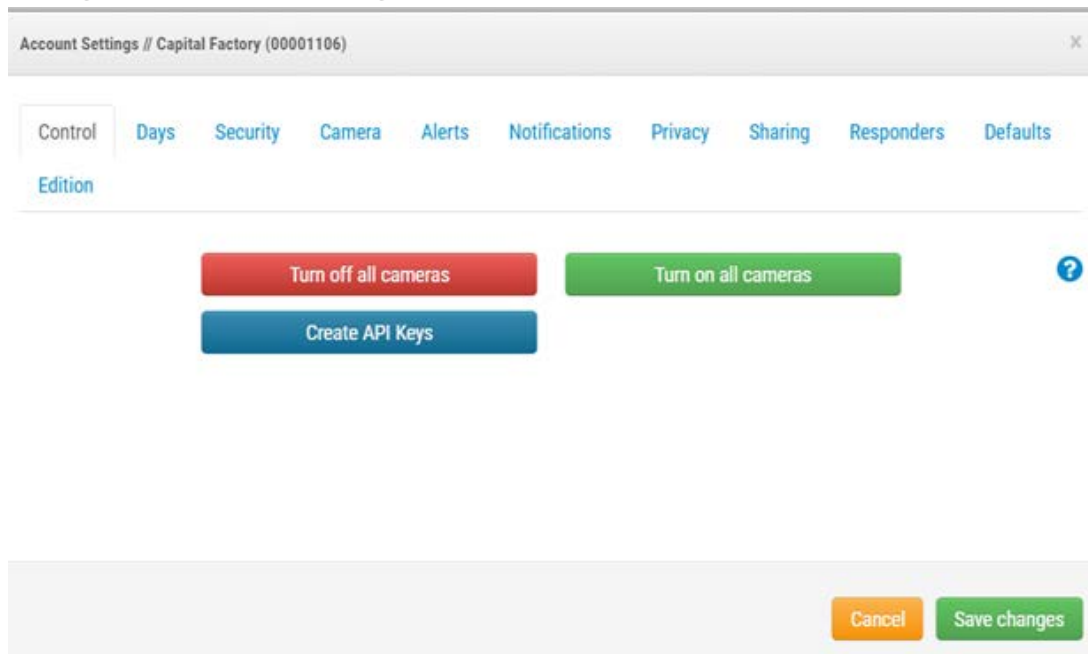
CONTROL

The **Account Settings: Control** menu contains the following options:

- **Turn off all Cameras:** Click this to turn off all cameras connected to the VMS.
- **Turn on all Cameras:** Click this to turn on all cameras that are off.
- **Create API Key:** This generates an Eagle Eye Networks API Key so that you can use the Eagle Eye Networks Video API. The API Key is needed to connect to the RestFUL API.

See [Figure 11](#) for an example of the **Account Settings: Control** page.

Figure 11. Account Settings: Control



DAYS

The **Account Settings: Days** menu contains the following options:

- **Time Zone:** Set this to the time zone where the account is located.
- **Work Days:** Select which days of the week to be included as work days.
- **Work Hours:** Select the time period which will be your working hours.

Use the options in the **Account Settings: Days** tab to define the work hours and work days for the account. This information is used as a reference in many other areas such as camera and notification configurations. For example, if you enable a camera in Camera Settings to record only during work hours, it will record on the days and hours you defined here. Similarly, if you choose the option to enable motion alerts only during non-work hours, they will be enabled outside of the work hours defined here.

See [Figure 12](#) for an example of the **Account Settings: Days** page.

Figure 12. Account Settings: Days

Account Settings // Capital Factory (00001106)

Control Days Security Camera Alerts Notifications Privacy Sharing Responders Defaults

Edition

Time Zone: US/Central

Work days: Monday - Saturday

Work hours: 6:30am To 7:00pm

Cancel Save changes

SECURITY

The **Account Settings: Security** window contains the following options:

- **Web Timeout:** The time after users are automatically logged out.
- **Inactive Session Timeout:** The period of inactivity after users will be automatically logged out.
Note: Mouse clicks and keyboard presses count as activity.
- **Max Login Attempts:** Maximum number of consecutive failed login attempts within a 24-hour period that a user is allowed before being forced to do a password reset.
- **Include Picture in System Notifications:** Controls whether images are displayed in system notification emails.

- **Two Factor Authentication:** If enabled, sets all users on the account to Two Factor Authentication. Two factor authentication uses email and/or SMS messages with a mobile phone. For more information, see [Setting up Two-Factor Authentication \(2FA\)](#).

See [Figure 13](#) for an example of the **Account Settings: Security** page.

Figure 13. Account Settings: Security

Account Settings // Capital Factory (00001106)

Control Days **Security** Camera Alerts Notifications Privacy Sharing Responders Defaults

Edition

General **Password**

Web Timeout: 1 week

Inactive Session Timeout: None

Max Login Attempts:

Include Picture in System Notifications:

Enable Two Factor Authentication for all users:

Cancel Save changes

CAMERA

The **Account Settings: Camera** window contains the following options.

- **Enable RTSP Cameras:** Check this box to enable cameras that do not support the ONVIF protocol to appear as cameras you can add on the Dashboard. You can add them to the system if you know the 2 RTSP resource URLs. You can add RTSP cameras two ways. You can specify an IP address or click the indicator on the Dashboard. Both methods of adding an RTSP camera are enabled by this check box. You must manually configure the cameras to output the proper RTSP streams using the camera's web interface.
- **Standard Camera Logins:** Properly configured cameras will have usernames and passwords so that individuals on the local network cannot access them. Each camera in your system may have a different username or password or you may use the same username and password on all the cameras. If you have the same username and password on all your cameras, you can enter it here. This way you will not have to enter it for each camera.

See [Figure 14](#) for an example of the **Account Settings: Camera** window.

Figure 14. Account Settings: Camera

Control Days Security **Camera** Alerts Notifications Privacy Sharing Responders

Defaults Edition

Enable RTSP cameras: ?

Standard Camera Logins:

(If you use a standard account username and password for your onvif login, you can enter it here and you will not have to enter it on each camera.)

username	password	
admin	pass	x
admin	Password1	x

Cancel Save changes

ALERTS

The **Account Settings: Alerts** window contains the following options:

- **Active Alert Mode:** This selects the currently active Alert Mode. Only those Alerts that are part of the current Alert Mode will be active. Each motion Alert can be attached to one or more Alert Modes.

- **Alert Modes:** This allows users to create and delete Alert Modes. Click **X** to delete or **Add Alert Mode** to create a new alert mode.

See [Figure 15](#) for an example of the **Account Settings: Alerts** page.

Figure 15. Account Settings: Alerts

Account Settings // Capital Factory (00001106)

Control Days Security Camera Alerts Notifications Privacy Sharing Responders Defaults

Edition

Active Alert Mode: Normal Business

New Alert Mode Name Add Alert Mode

- Normal Business X
- Special Event X
- Holiday Break X

Cancel Save changes

NOTIFICATIONS

The **Account Settings: Notifications** window contains the following options:

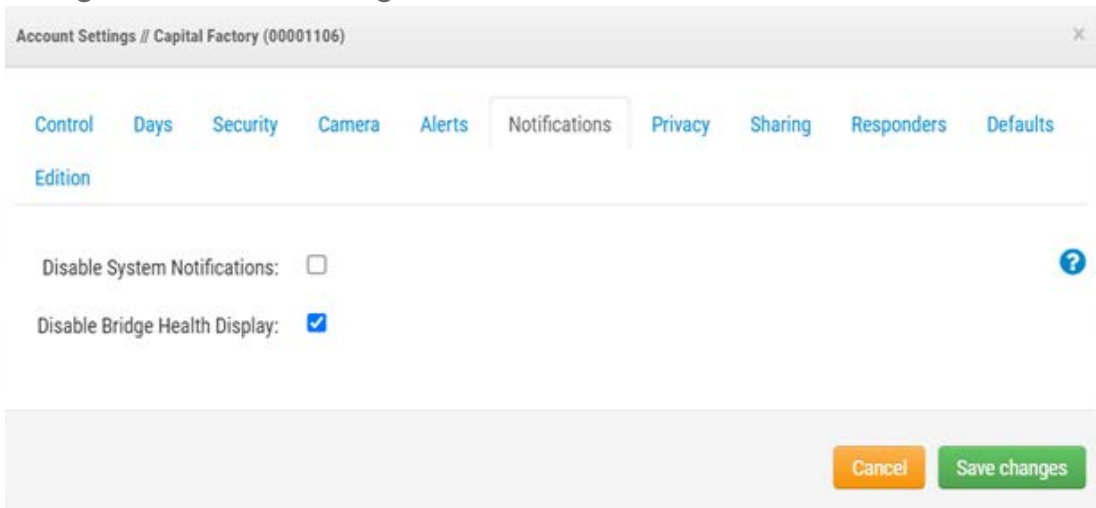
- **Disable System Notifications:** System notifications indicate when bridges and cameras go offline or online. To receive these notifications, ensure this box is not checked.

Note: This applies to the entire account, not individual profiles. Individual users can adjust their settings to ensure they receive these notifications in **My Profile** by selecting **System All**.

- **Disable Bridge Health Display:** Icons are shown on the Dashboard and within certain Settings windows when the system detects an issue with the bridges/CMVRs. These include CPU overload, high temperatures, high bandwidth usage, and when video is purged (deleted before it was able to be uploaded). If you do not want these icons displayed in the VMS, check this box. This applies to the entire account, not individual profiles.

See [Figure 16](#) for an example of the **Account Settings: Notifications** page.

Figure 16. Account Settings: Notifications



PRIVACY

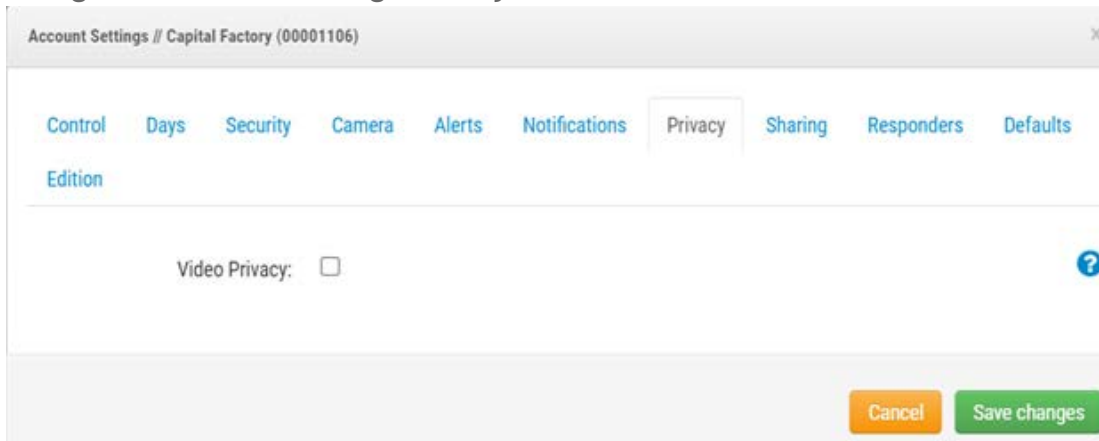
The **Account Settings: Privacy** window contains the following options:

- **Video Privacy:** when you check this box, your dealer or installer will be unable to see any video.

Note: Enabling video privacy can interfere with the ability to troubleshoot or service your cameras.

See [Figure 17](#) for an example of the **Account Settings: Privacy** page.

Figure 17. Account Settings: Privacy



SHARING

The **Account Settings: Sharing** window contains the following options:



- **Available Cameras:** Displays the available cameras on the VMS. Select from the **Available Cameras** and drag them to the **Cameras to Share** list. A scroll bar is available to find specific cameras quickly.
- **Cameras to Share:** Displays cameras that are available when **Sharing** is active.
- **Add All:** Adds all available cameras to the **Cameras to Share** list, or if using search, the visible cameras.
- **Remove All:** Removes all cameras from the **Cameras to Share** list or if using search, the visible cameras.
- **Permissions:** Allows selecting among **Edit Motion/Analytics**, **PTZ Live**, **Edit PTZ Stations**, and **2-Way Audio** permissions for the **Cameras to Share**.
- **Edit Motion/Analytics:** Grants permission to edit motion settings including adding and deleting **Regions of Interest** and also grants permission to edit existing analytics.

Note: Adding or deleting analytics is not allowed.

- **PTZ Live:** Grants permission to control a PTZ camera in live view and to recall PTZ Stations.
- **Edit PTZ Stations:** Grants permission to control a PTZ camera and to edit PTZ Stations.
- **2-Way Audio:** Grants permission to activate the 2-Way Audio functionality on supported devices. This allows the user to broadcast their voice over a speaker associated with a camera, using the microphone in their device.
- **Share Email Addresses:** Allows entering an email address for a user on the shared cameras account.
- **Shared Cameras:** Displays the list of shared cameras.
- **Account:** Displays the email and account names that share the cameras.
- **Cameras:** Displays the list of cameras that have been shared with the given account.

Note: Cameras can be shared between different accounts through email addresses. When sharing to a user that already has an Eagle Eye Networks VMS account, the camera is shared into the account and not just to the single user. If sharing to a user without an account, an account will automatically be created for the user and the cameras shared to the new account. The cameras will appear in the dashboard as **Cameras Shared with Me**. Cameras can be shared with multiple accounts via email addresses.

Shared cameras allow live viewing, historic viewing and downloading of video.

- **Permissions:** Contains the list of permissions shared for the selected cameras and the selected account.
- **Actions:** Click the trash icon  to stop sharing cameras with the selected account. Click the pencil icon  to edit the selected sharing settings.

Note: It is not possible to share a camera with a reseller user.

See [Figure 18](#) for an example of a **Account Settings: Sharing** page.

Figure 18. Account Settings: Sharing

Account Settings // Capital Factory (00001106)

Control Days Security Camera Alerts Notifications Privacy **Sharing** Responders

Defaults Edition

Available Cameras

Search

- CF16 Break Room (2MP)
- CF16 Dedicated Desks (1MP)
- CF16 Elevator Lobby (2MP)
- CF16 Fisheye Panorama
- CF16 Fisheye Quad View
- CF16 Fisheye Single View
- CF16 Freight Elevator (2MP)

Add All

Cameras To Share

Search

<Remove All

Permissions: None selected


Share Email Addresses:

Cancel Save changes

RESPONDERS

The **Account Settings: Responders** window contains the following options:

- **Available Cameras:** Allows users to select from the **Available Cameras** and drag them to the **Responder Cameras** list.
- **Responder Cameras:** Displays cameras available when activating **First Responder**.

- **Add All:** Adds all available cameras to the **Responder Cameras** list.
- **Remove All:** Removes all cameras from the **Responder Cameras** list.
- **Email:** Allows users to enter the email address for **First Responder** nominee.
- **First Name:** Allows users to enter the first name of nominee.
- **Last Name:** Allows users to enter the last name of nominee.
- **Organization:** Allows users to enter the organization name of the nominee.
- **First Responder List:** Displays the list of **First Responders** who have been nominated.
- **Active:** Shows status of first responder nominee. If the nominee has accepted, a check mark will show they are active and ready to view the cameras if **First Responder** is activated.
- **Actions:** Allows users to delete **First Responder**. Click the trash icon  to delete the **First Responder**. Upon deletion, the First Responder will no longer have any access to the cameras even if **First Responder** is activated.

The **Responders** setting is used to designate **First Responders** who can receive immediate, real-time access to a list of designated **Responder Cameras** when an authorized user activates the First Responder Access feature. After a First Responder is set up and active, it is possible to **Activate Responder Share** when a user is signed into the account. This can be found under the username in the top right corner of the web interface. Click on your username to see **Activate Responder Share** below **My Profile** and just above *Log Out*. Once activated, a notification will be sent, and First Responder camera video is shared instantly. When First Responder is activated, the selection under the username changes to **Deactivate Responder Share** which stop sharing video with First Responders if selected.

See [Figure 19](#) for an example of the **Account Settings: Responders** page.

Figure 19. Account Settings: Responders

Account Settings // Capital Factory (00001106)

Control Days Security Camera Alerts Notifications Privacy Sharing Responders

Defaults Edition

Available Cameras

Search

- CF16 Dedicated Desks (1MP)
- CF16 Fisheye Panorama
- CF16 Fisheye Quad View
- CF16 Fisheye Single View
- CF16 Freight Elevator (2MP)
- CF16 Kitchen (4MP)
- CF16 Mentor Area (1MP)

Add All >

Responder Cameras

Search

- CF16 Break Room (2MP)
- CF16 Elevator Lobby (2MP)
- CF16 Library (2MP)
- CF16 Lobby Fisheye (10MP)
- CF16 Lockers (2MP)
- CF16 Metal Room (3MP)
- CF16 Network Closet (1MP)

<<Remove All

Email: *Responder Nominee Email

First Name: First Name

Last Name: Last Name

Organization: Organization

Nominate

Cancel Save changes

DEFAULTS

The **Account Settings: Defaults** window contains the following options:

- **Default Cloud Retention:** Sets the default number of days that recorded video will be kept in the cloud when cameras are added. For example, setting the value to 90 sets the default cloud retention to 90 days.

Once this value is set, any new cameras have their cloud retention set to this default value automatically. This value directly affects billing.

Important: This setting does not change the default retention for existing cameras. Use it to set the default retention for new cameras added.

- **(Available only on CMVR) Default Cloud Preview Only:** This setting uploads the preview footage to the cloud so it can be viewed immediately without having to buffer.

Note: This will affect the bandwidth utilized by the system and is not recommended in low bandwidth environments.

- **(Available only on CMVR) Default Minimum on Premise Retention:** Sets the default minimum value when new cameras are added for the number of days that recorded video will be kept on premise. Set this value here prior to adding any new cameras. Important: This does not change the Minimum On Premise Retention for existing cameras. Use it to set the Minimum On Premise Retention for new cameras added.

Note: If the local CMVR hard drive fills before the Minimum On Premise Retention is met, it will be displayed in camera settings metrics under delta storage as well as bridge metrics under delta storage as a purge and shown in purple color. Changing this value does not affect billing.

- **(Available only on CMVR) Default Maximum on Premise Retention:** Sets the default maximum value when new cameras are added to the system.

Important: Video will be deleted after this maximum value. For example, setting the value to “30” will cause any video to be deleted from the CMVR after 30 days. In order for cameras to have this value, it must be set here prior to adding any new cameras.

This does not change the Maximum On Premise Retention for existing cameras. It is intended to be used to set the Maximum On Premise Retention for new cameras added.

- **Default Preview Resolution:** Sets the default preview resolution value when new cameras are added to the system. This is the low frame rate low resolution MJPEG preview video that will be recorded. If the camera does not match the resolution selected, the next closest resolution will be used. We recommend CIF which is 320 × 240 or 320 × 180 on most cameras. Never set the preview resolution to STD without first running the system with all cameras at CIF to ensure ample bandwidth and bridge resources. In order for cameras to have this value, it must be set here prior to adding any new cameras. This value does not affect billing but can greatly affect bandwidth. Setting this value too high can prevent all video from being transmitted to the cloud.
- **Default Full Video Resolution:** Sets the default **Full Video Resolution** value when new cameras are added to the system. This is for the full frame rate H.264 recording. If the camera does not match the resolution selected, the next closest resolution will be used. Setting this value too high can prevent all video from being transmitted to the cloud. This value directly affects billing.

See [Figure 20](#) for an example of the **Account Settings: Default** page.

Figure 20. Account Settings: Defaults

Account Settings // Capital Factory (00001106)

Control Days Security Camera Alerts Notifications Privacy Sharing Responders Defaults

Edition

Camera Defaults

Default Cloud Preview Only:

Default Cloud Retention: None (M10) ▾

Default Minimum On Premise Retention: None ▾

Default Maximum On Premise Retention: None ▾

Default Preview Resolution: cif ▾

Default Full Video Resolution: high (HD1) ▾

Cancel Save changes

SETTING UP TWO-FACTOR AUTHENTICATION (2FA)

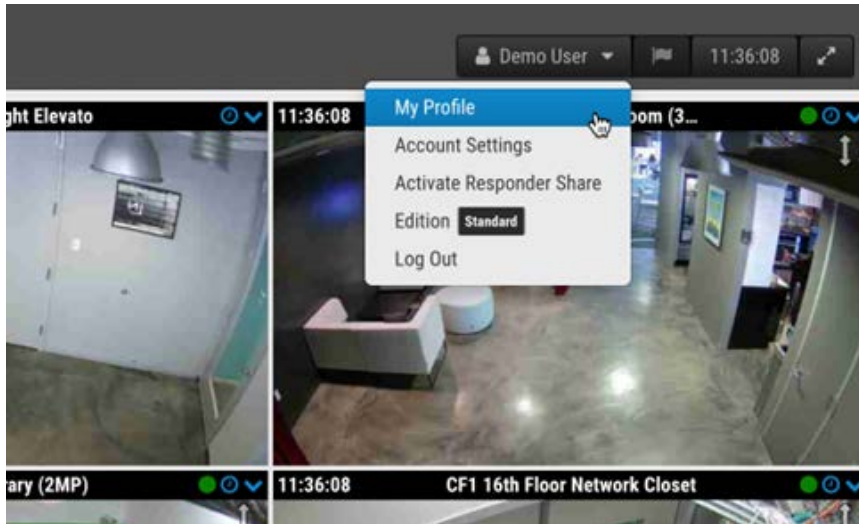
Two-factor Authentication must be initially enabled by your Reseller. If you want to utilize this extra layer of security for your VMS, please contact your Reseller to set it up. After your Reseller has enabled 2FA, you will have the following options:

1. Enable 2FA for yourself (each user in your VMS will also have this option).
2. As an admin, enable 2FA for all users.

ENABLING TWO-FACTOR AUTHENTICATION FOR A SINGLE USER

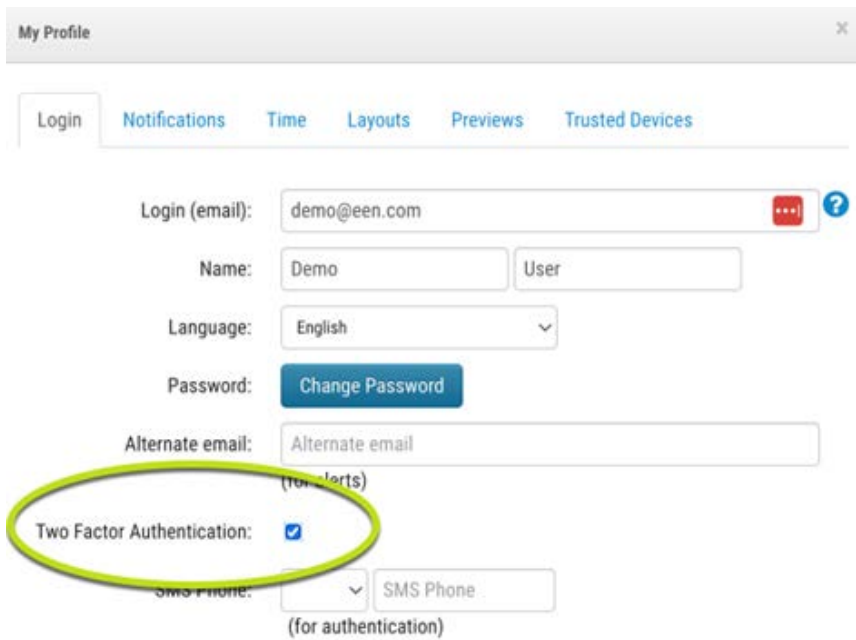
1. Click your profile name and select **My Profile**. See [Figure 21](#)

Figure 21. Two-Factor Authentication: My Profile



2. Check the box next to **Two-Factor Authentication** and click **Save**. See [Figure 22](#).

Figure 22. Enable 2FA for Yourself



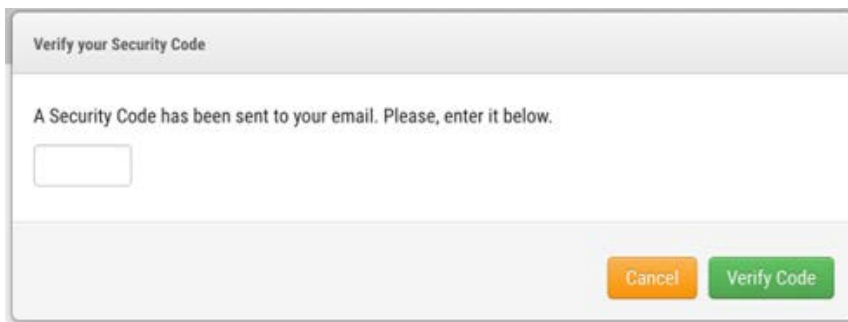
The screenshot shows the 'My Profile' settings page. The 'Two Factor Authentication' checkbox is checked and circled in yellow. Other visible fields include 'Login (email): demo@een.com', 'Name: Demo User', 'Language: English', 'Password: Change Password', 'Alternate email: Alternate email', and 'SMS Phone: SMS Phone (for authentication)'.

3. Enter your security code when prompted, then click the button to **Send Security Code**.

Note: A code will be sent to your email address.

4. Enter the security code in the field shown and click **Verify Code**. See [Figure 23](#).

Figure 23. 2FA Security Code



The screenshot shows a dialog box titled 'Verify your Security Code'. It contains the text 'A Security Code has been sent to your email. Please, enter it below.' and a text input field. At the bottom right, there are two buttons: 'Cancel' and 'Verify Code'.

Result: Two-Factor Authentication is now enabled for your account. You will need to enter a security code sent to your email address whenever you log in to the Eagle Eye Cloud VMS

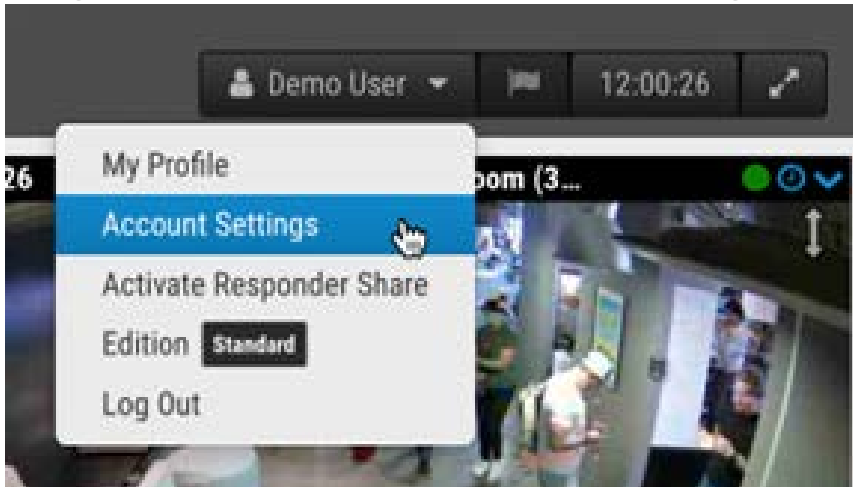
ENABLING TWO-FACTOR AUTHENTICATION FOR ALL USERS

To enable two-factor authentication (2FA) for all users, do the following:

Note: This option is only available for admin users.

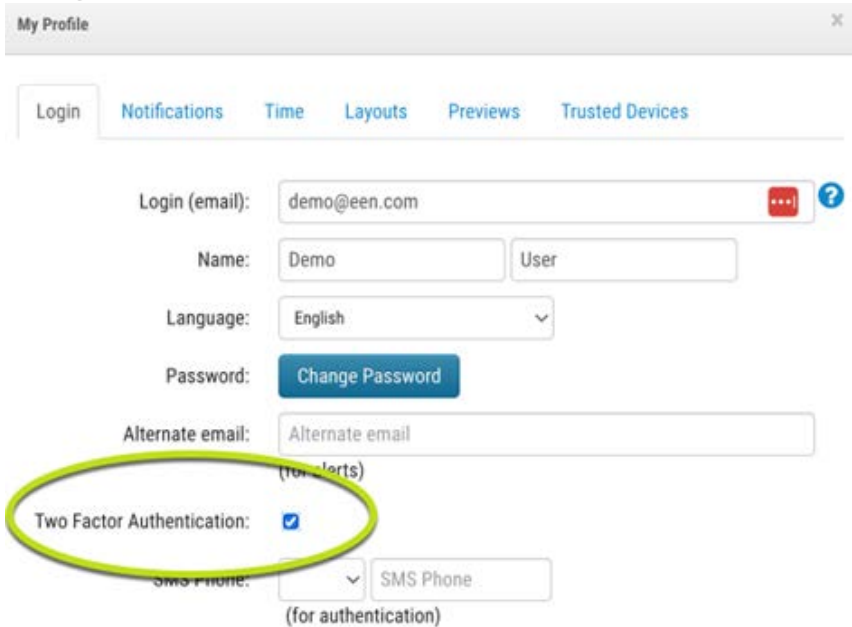
1. Click your profile name and select **Account Settings**. See [Figure 24](#).

Figure 24. Two-Factor Authentication Account Settings



2. Click the **Security** tab, check the **Enable Two Factor Authentication for All Users** box, then click **Save Changes**. See [Figure 25](#).

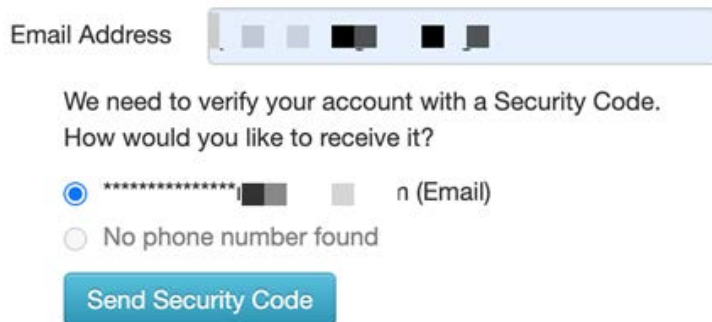
Figure 25. Enable 2FA for All Users



The screenshot shows the 'My Profile' settings page. The 'Two Factor Authentication' checkbox is checked and highlighted with a yellow oval. Other visible fields include 'Login (email): demo@een.com', 'Name: Demo User', 'Language: English', 'Password: Change Password', 'Alternate email: Alternate email', and 'SMS Phone: SMS Phone (for authentication)'.

Results: The next time your users log in, they will be prompted to send a security code to their email address for two-factor authentication. See [Figure 26](#).

Figure 26. Two-Factor Authentication Login Verification



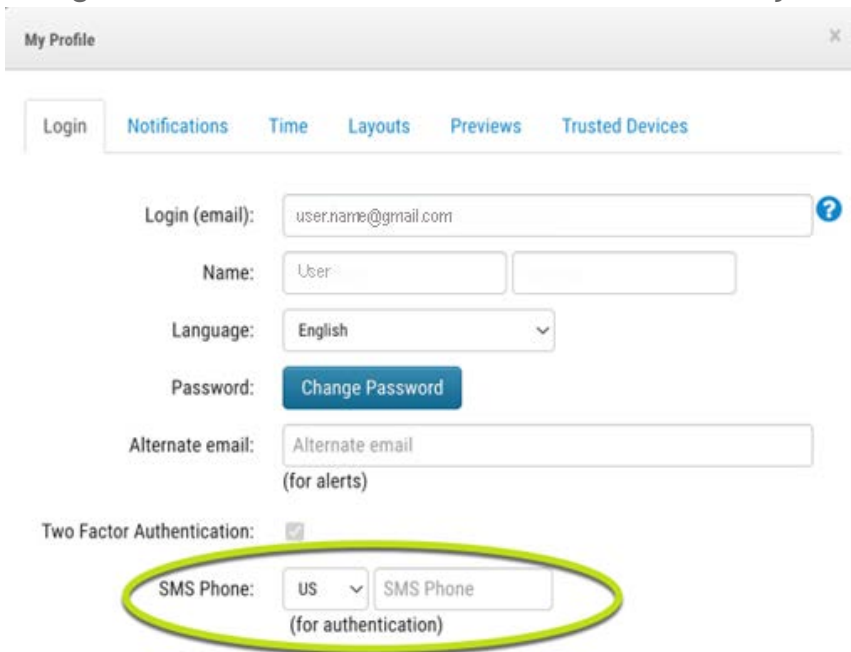
The screenshot shows the 'Two-Factor Authentication Login Verification' screen. It displays an 'Email Address' field with a masked email address. Below the field, the text reads: 'We need to verify your account with a Security Code. How would you like to receive it?'. There are two radio button options: '***** (Email)' (selected) and 'No phone number found'. A 'Send Security Code' button is located at the bottom.

VERIFYING USING SMS (TEXT)

After two-factor authentication has been set up, you can add a phone as a trusted device to verify your login by SMS (text).

1. Click your profile name and select My Profile.
2. Now enter your phone number (with country code) in the appropriate field as shown in [Figure 27](#).

Figure 27. Two-Factor Identification Phone Number Entry



The screenshot shows the 'My Profile' settings page. At the top, there is a 'My Profile' header with a close button. Below it is a navigation bar with tabs for 'Login', 'Notifications', 'Time', 'Layouts', 'Previews', and 'Trusted Devices'. The 'Login' tab is selected. The 'Login (email)' field contains 'user.name@gmail.com'. The 'Name' field is split into two parts, with 'User' in the first. The 'Language' dropdown is set to 'English'. The 'Password' field has a 'Change Password' button. The 'Alternate email' field contains 'Alternate email (for alerts)'. Under 'Two Factor Authentication', the checkbox is checked. The 'SMS Phone' field is highlighted with a yellow oval; it contains 'US' in a dropdown and 'SMS Phone' in the text input, with '(for authentication)' below it.

Note: After you click Save Changes you will be prompted to enter your password, and will receive a text message with a security code.

3. Enter the security code and click **Verify Code**.

Result: The next time you log in from a new device, you can choose to verify through SMS.

Live View and History Browser

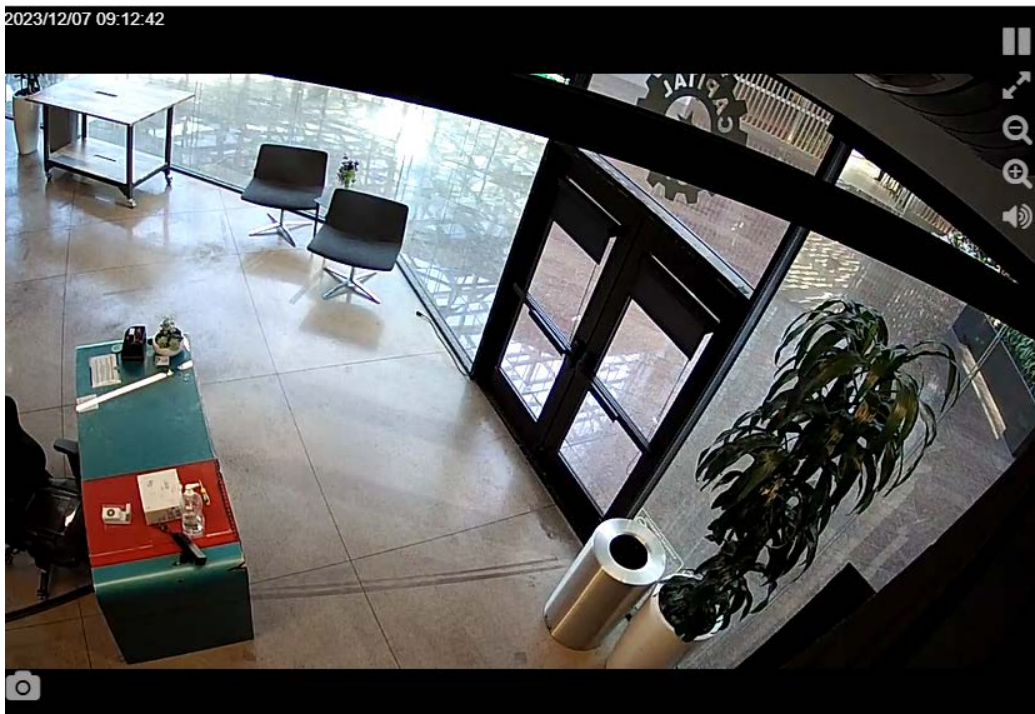
This chapter provides information on viewing live video and creating clips with the History Browser in the Eagle Eye Network Cloud VMS.

Live View

Live videos can be accessed from any preview video pane (in **Layouts**, **Tags**, **Locations**, etc.), or through the Dashboard. See [Figure 28](#).












- **Preview Video Panes** – Click the video pane to open live, full-resolution video for that camera.
- **Dashboard** – Click the status check mark next to the camera to access the preview video, then click the preview video to open live, full-resolution video.

Figure 28. Live Video Pane



LIVE VIDEO CONTROLS

Review the live video controls below.

-  - Pause playback of the video.
-  - Resume playback of paused video.
-  - View video in full-screen mode.
-  - Zoom out.
-  - Zoom in.
-  - Play audio from camera.
-  - Operate PTZ controls
-  - Display list of saved PTZ stations.
-  - Take a snapshot of the current view
-  - Example of a Camera Input icon. Appears pink when activated.
-  - Example of a Camera Output icon. Appears pink when activated.

History Browser

The History Browser allows users to review video recordings.

By default, the live, lower-resolution preview video image shows. The lower part of the screen is a Timeline control with navigation buttons used to view the video history.

TIMELINE OVERVIEW



The Timeline lets you browse through the event history of the camera you have selected. It shows alternating areas of light and dark gray that indicate the time intervals selected in the top-left corner of the Timeline (more on this below). In the center of the timeline, there is a vertical pink bar that indicates the time you are viewing. The specific time is also displayed above the pink bar.

The most important things to note in the Timeline are the colored blocks in the gray space. These indicate events that you might want to pay attention to. You can see the meaning of the different colors in [Figure 29](#):

Figure 29. Timeline

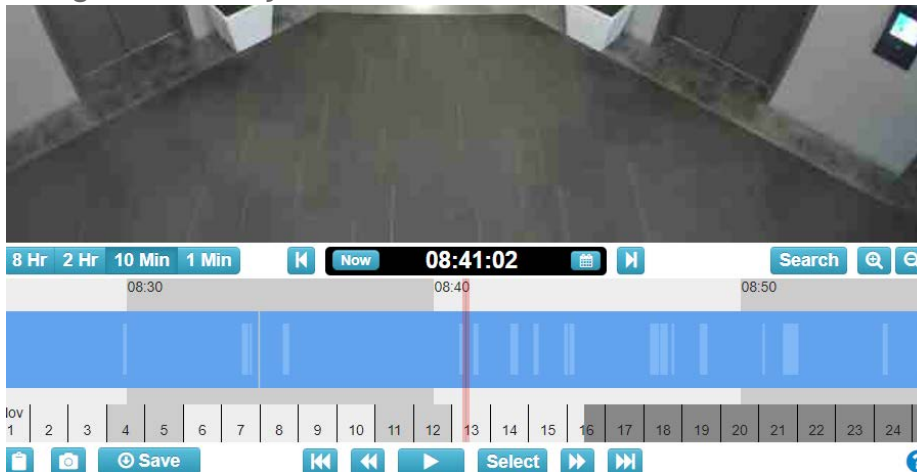


The most common thing you see is the light blue color (representing detected motion) with dark blue video around it. This is because whenever the camera detects motion, full resolution video is saved with a three-second buffer around the detected motion.

In the History Browser, the top of the screen shows the current video image. This is normally a Preview video image. The lower part of the screen is a Timeline control with navigation buttons. To access the History Browser, click the blue clock icon  in the upper right-hand corner of the preview view or the clock icon  in the Dashboard. See [Figure 30](#).

See [Archive](#) for more information about saving video.




Figure 30. History Browser



The History Browser consists of a video pane, which is where the video will be shown, a Timeline that allows you to scrub through the recording history of the camera with important events highlighted, zoom buttons to allow you to access the Gallery view that highlights important events detected by the camera, and tools to save and share video clips.

CYCLING THROUGH THE TIMELINE






The Timeline can be clicked and dragged left or right to cycle through the video history. You can also click and drag the date bar below the Timeline to change the day that is being displayed.

-  You can quickly select a specific date using this button.
-  Select the Timeline's display interval. This can let you get an overview of the whole day, or fine tune what you're looking at.
-  Click the Now button to activate Now mode. This moves the cursor to the current time, continually updates the timeline with data, and attempts to keep the cursor at the latest image.

PLAYING VIDEO


Once you've found the video clip you want to view, click the **Play** button to begin playing the full resolution video. If the pink bar is not on an area with full resolution video available (dark blue areas on the Timeline), the playback jumps ahead to the next area with full resolution video available. Press Play again to pause the video.

There are several other playback navigation buttons available:

-  Go to the previous (or next) full resolution video clip.
-  Go to the previous (or next) Key Image. Key Images are important parts of motion events as determined by the Eagle Eye Networks VMS. For example, if your camera is watching a door, the system typically marks a Key Image for each person who goes through the door.
-  The Select button allows you to select a specific time range to view events. Just click the button, then move the pink bar to the beginning of the desired time frame and click **Start**. Then move the pink bar to the end of the desired time and press Stop. Now pressing the Play button starts at the beginning of this selected period and stops automatically at the end.
 - You can also use the Shift key and click on the Timeline to set Start and Stop points.
-  Change the playback speed of the video using these buttons. Note that the 8x speed in particular can use high bandwidth, causing playback issues.
-  This area is called the Scrub Bar. While full-resolution video is playing, dragging the Timeline causes things to reload completely. Instead, click and drag the black bar in the Scrub Bar to move through the full definition video.

SAVING A CLIP

Saving a clip gives you two options: archiving the clip to your Eagle Eye Networks VMS account or downloading the clip to your computer or mobile device.

 **Save** Use this button to either Archive or Download a video clip. In the window that opens, you can select the time frame for the video to save. If you had created a selection prior to clicking the Save button, the Start and End times are already populated.

There are three options for what type of video to save:

- **Video:** This option saves the full resolution video.
- **Bundle:** This option saves both the full resolution video and the 1 frame per second timelapse preview video.
- **Preview Timelapse:** This option saves the low resolution 1 frame per second preview video.





The video description is populated with the camera name, date, and time but can be configured to fit your needs. You can also add a timestamp and notes.

Click **Archive** or **Download** to save the clip in the manner you need.

Note: Clicking **Download** does not immediately download the clip. The VMS prepares the download, then you will need to navigate to Downloads in the left-side menu to actually save the clip to your device. This can take some time to be prepared, based on the selection length.

ADDITIONAL FEATURES

The additional features of the history browser are below.

-  Copy a URL to the current timestamp in the video you are viewing. You can share this URL with anyone who has access to the camera in your Eagle Eye Networks VMS. You could also save the URL to access later.
-  Take a screenshot of the current frame in a JPEG format. The image is saved to your **Archive**, where it can be viewed, shared, downloaded, deleted, etc.
-  Zoom in and out of the video you are viewing.
-  **Search** Click the **Search** button to view thumbnails from the selected video at designated times. You can select from the following:
 - **5 Minutes:** See thumbnails at 5 minute increments going back from the selected time.
 - **Key Images:** View thumbnails of the last few key images as determined by the VMS.
 - **Videos:** See the thumbnails for the previous full resolution videos saved by the VMS.

PAN, TILT, ZOOM (PTZ) CAMERA CONTROLS

PTZ Cameras have a few options not visible for non-PTZ cameras.

- **Cross-Pointer:** Click to toggle PTZ on and off. When green, PTZ is activated. When PTZ mode is activated, the history browser goes into Now mode, showing live video. If you navigate away from Now mode, PTZ is deactivated.
- **PTZ Movement:** While PTZ is active, click once on the preview image to have the PTZ camera focus on that area. Click and drag to create a zoom selection. The camera attempts to zoom in on the selected area. Double-click to zoom out completely. Scroll the mouse wheel on the preview image to zoom in or out by 1/10 of the camera's available zoom.
- **PTZ Station DropDown:** Click the carrot to bring up a list of stations. Click one of the stations on the menu to navigate to that station.

KEYBOARD SHORTCUTS

The available keyboard shortcuts are as follows:

- **Previous Image:** ← or h
- **Next Image:** → or l
- **Previous Key Image:** ↑ or j
- **Next Key Image:** ↓ or k
- **Previous Video:** Shift + ←
- **Next Video:** Shift + →
- **Zoom Timeline:** +/-
- **Play/Pause:** Enter

Other Viewing Options

There are several third-party applications that you can use to view the Cloud VMS. Please go to een.com/partners to learn about our partner integrations.

To view the Cloud VMS using Apple TV or a Windows PC, consult this [application note](#). Go to [Bridge/CMVR Actions](#) for additional information.

Layouts

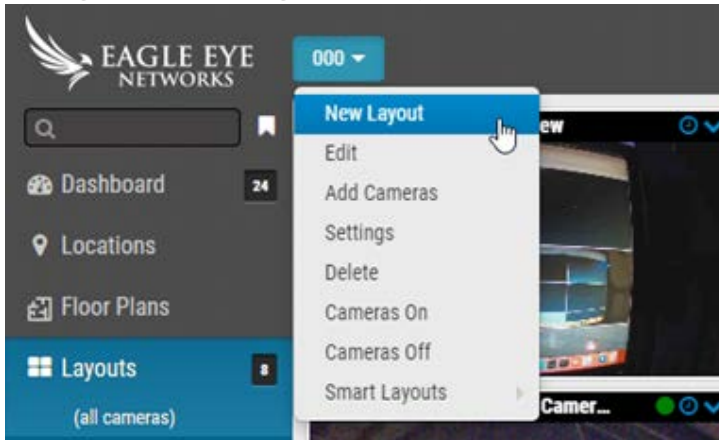
Use layouts to organize your cameras. Layouts are configurable screens that show multiple camera feeds simultaneously. You can choose the display size and position of the camera to preview videos. Layouts are consistent across the web interface and mobile app. You can also control user access to specific layouts.

Creating a New Layout

To create a new layout, do the following:

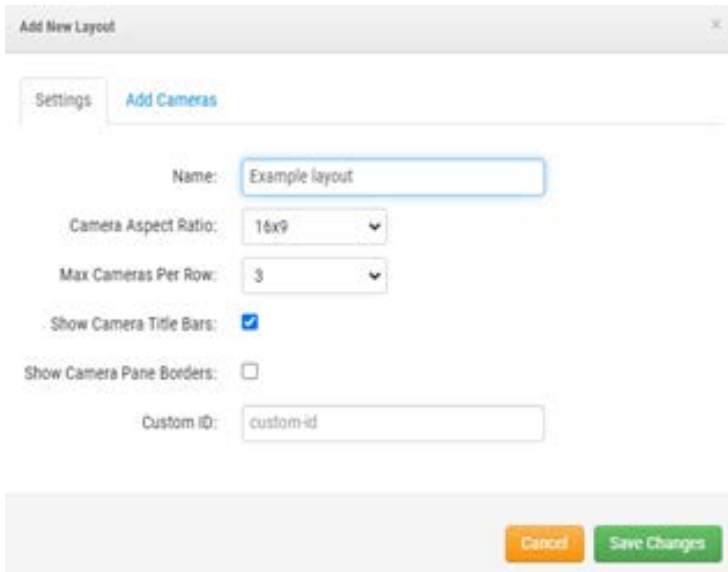
1. Choose **Layouts** from the navigation menu on the left and select **New Layout** from the drop-down menu. See [Figure 31](#).

Figure 31. Creating a New Layout



2. Configure the layout's settings. See [Figure 32](#).

Figure 32. Configuring Settings in a New Layout



The screenshot shows a dialog box titled "Add New Layout" with a close button (X) in the top right corner. The dialog has two tabs: "Settings" (selected) and "Add Cameras". Below the tabs, there are several configuration fields:

- Name:** A text input field containing "Example layout".
- Camera Aspect Ratio:** A dropdown menu currently set to "16x9".
- Max Cameras Per Row:** A dropdown menu currently set to "3".
- Show Camera Title Bars:** A checked checkbox.
- Show Camera Pane Borders:** An unchecked checkbox.
- Custom ID:** A text input field containing "custom-id".

At the bottom right of the dialog, there are two buttons: "Cancel" (orange) and "Save Changes" (green).

The available layout settings are:

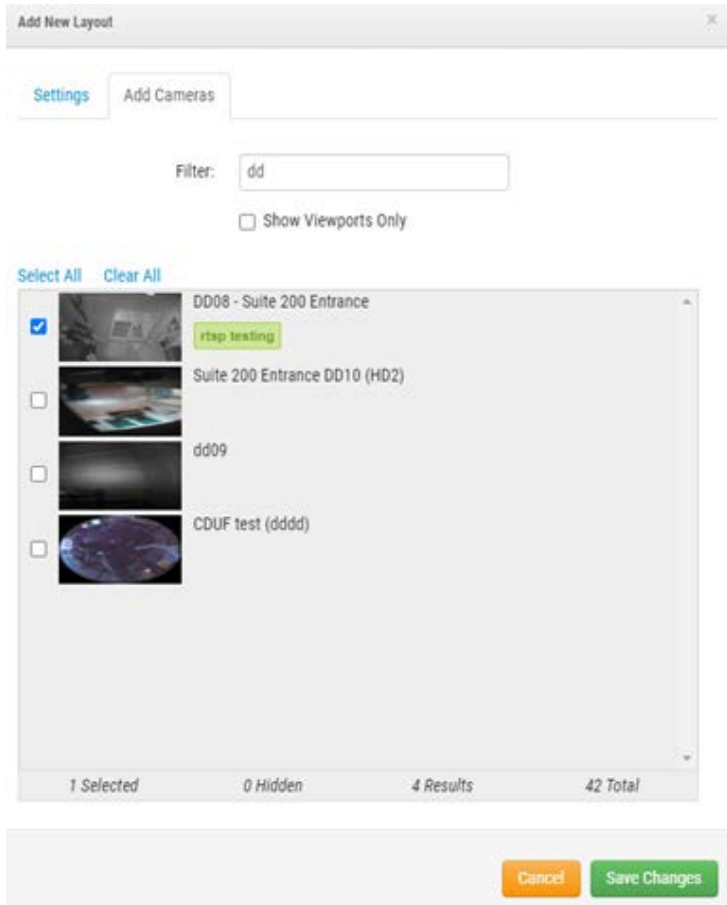
- **Name:** Enter the name of the layout.
- **Camera Aspect Ratio:** Change the aspect ratio of the displayed cameras to either 16 × 9 or 4 × 3.
- **Max Cameras Per Row:** Select the maximum number of cameras that can display on each row.
Note: The possible number of thumbnails in a row depends on the device used for viewing.
- **Show Camera Title Bars:** Toggle to display or hide the camera name and timestamps on the thumbnails in the layout.
- **Show Camera Pane Borders:** Choose whether a border is displayed around a thumbnail.
- **Custom ID:** Use for internal tracking if desired.

3. Switch to the **Add Cameras** tab to select the cameras to add to the layout.

Note: All cameras appear on the list. Search for cameras by typing in the camera name or by camera tags in the **Filter** field. After you select a camera, you can delete the filter and search for further cameras.

Tip: Keep track of the selected cameras at the bottom of the dialog. See [Figure 33](#).

Figure 33. Viewing a New Layout



Layout Actions

This section contains descriptions of various layout actions.

EDITING LAYOUT SETTINGS

To edit layout settings, do the following:

1. Go to **Layouts**.
2. Navigate to the chosen layout.
3. Click the drop-down menu and select **Settings**.

To learn more about layout settings, see Step 2 in [Creating a New Layout](#).

ADDING CAMERAS TO A LAYOUT

To add a new camera to a layout, do the following:

1. Go to **Layouts**.
2. Navigate to the chosen layout.
3. Click the drop-down menu and select **Add Cameras**.

To learn more about adding cameras, see Step 3 in [Creating a New Layout](#).

EDITING A LAYOUT

To edit cameras in a layout, do the following:

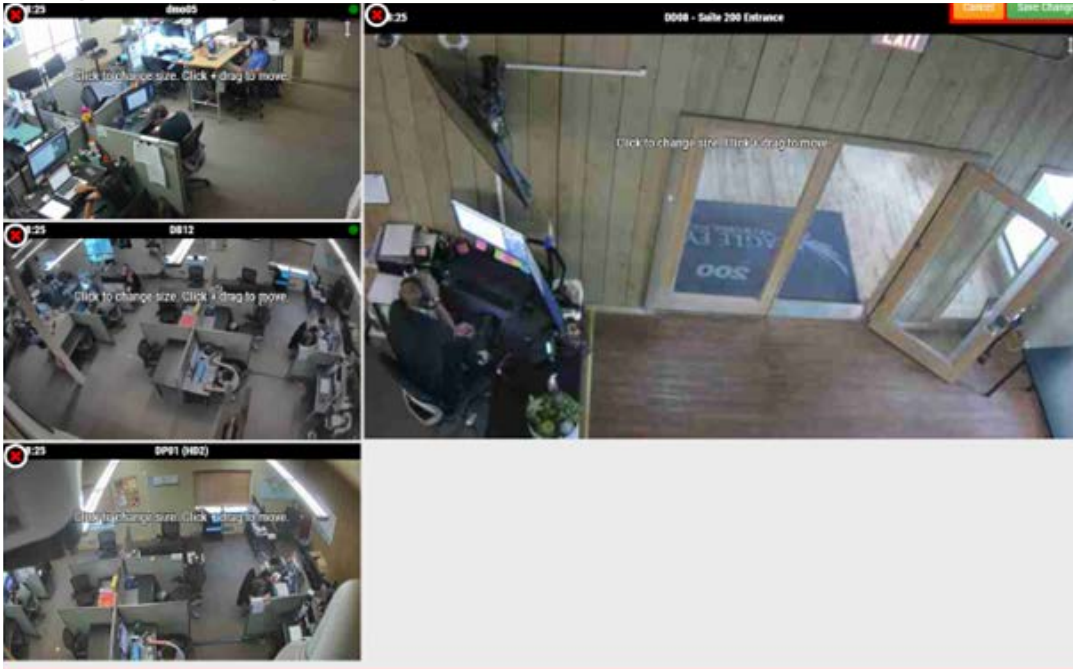
1. Go to **Layouts**.
2. Navigate to the chosen layout.
3. Click the drop-down menu and select **Edit**.
 - Delete a camera by clicking the **X** icon in the upper left corner of a thumbnail. See [Figure 34](#).

Figure 34. Deleting a Camera from a Layout



- Click on a thumbnail to change its size, and click and drag to move a thumbnail around in the layout. See [Figure 35](#).

Figure 35. Moving a Camera Thumbnail within a Layout



TURNING ON OR OFF ALL CAMERAS IN A LAYOUT

To turn all cameras in a layout off or on, do the following:

1. Go to **Layouts**.
2. Navigate to the chosen layout.
3. Click the drop-down menu and choose from the following options:
 - Turn all cameras on in the chosen layout by clicking **Camera On**.
 - Turn all cameras off in the chosen layout by clicking **Camera Off**.

DELETING A LAYOUT

To delete a layout, do the following:

1. Go to **Layouts**.
2. Navigate to the chosen layout.
3. Click the drop-down menu and select **Delete**.
4. Confirm the action when prompted.

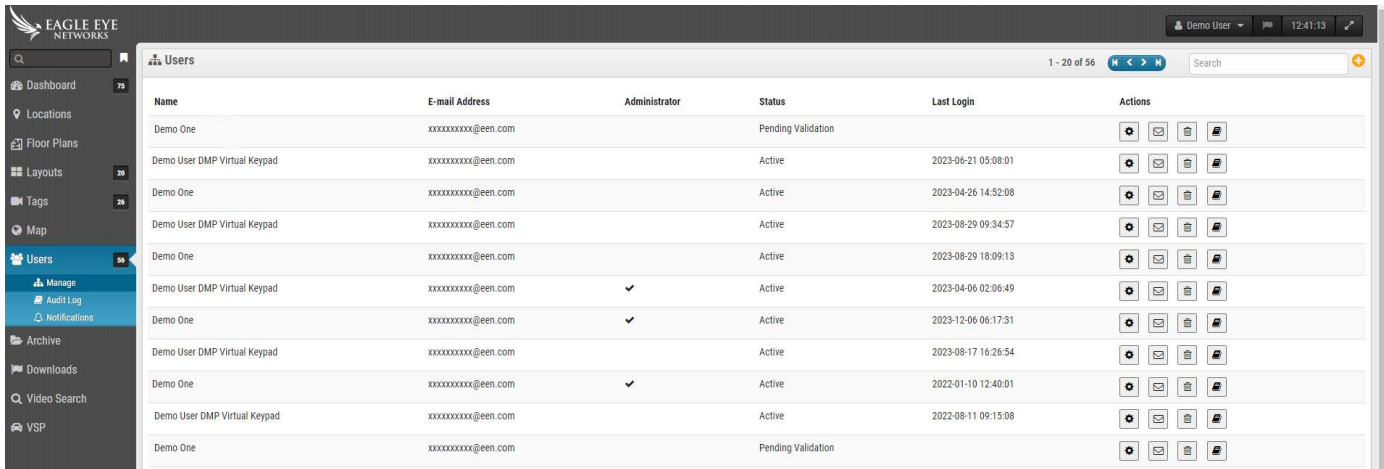
Managing Users

User management options are available for anyone with admin or user admin permissions.

Users

The Users window of the VMS allows you to manage user access, roles, and permissions. See [Figure 36](#).

Figure 36. Users



Name	E-mail Address	Administrator	Status	Last Login	Actions
Demo One	xxxxxxxxx@een.com		Pending Validation		[Icons]
Demo User DMP Virtual Keypad	xxxxxxxxx@een.com		Active	2023-06-21 05:08:01	[Icons]
Demo One	xxxxxxxxx@een.com		Active	2023-04-26 14:52:08	[Icons]
Demo User DMP Virtual Keypad	xxxxxxxxx@een.com		Active	2023-08-29 09:34:57	[Icons]
Demo One	xxxxxxxxx@een.com		Active	2023-08-29 18:09:13	[Icons]
Demo User DMP Virtual Keypad	xxxxxxxxx@een.com	✓	Active	2023-04-06 02:06:49	[Icons]
Demo One	xxxxxxxxx@een.com	✓	Active	2023-12-06 06:17:31	[Icons]
Demo User DMP Virtual Keypad	xxxxxxxxx@een.com		Active	2023-08-17 16:26:54	[Icons]
Demo One	xxxxxxxxx@een.com	✓	Active	2022-01-10 12:40:01	[Icons]
Demo User DMP Virtual Keypad	xxxxxxxxx@een.com		Active	2022-08-11 09:15:08	[Icons]
Demo One	xxxxxxxxx@een.com		Pending Validation		[Icons]

ADDING NEW USERS

Before you begin: You need the following information from the users you would like to add:

- First name
- Last name
- Email address

Note: The email address must be unique, as in not already associated with another Eagle Eye Cloud VMS account.


To add a new user, do the following:

1. Click **Users** in the navigation bar on the left.
2. Click the green **Add User** button.
3. Enter the required information (first and last names and email address)
4. Click **Next** to go through the **Access, Cameras, Layouts, and Permissions** to set up new user access.
5. Click **Save** to add the user to your Eagle Eye Cloud VMS.

What to do next: Once the user has been added, they will receive an email with a link. They need to click this link to validate their email address and choose a password. The email link is only valid for 72 hours and can be resent if needed.

DELETING USERS


To revoke a user's access to the Eagle Eye Cloud VMS, delete them from the Users table.

1. Click **Users** in the navigation bar on the left.
2. Find the user in the list that you want to delete, then click the trash icon  next to the user.
3. After reading the warning message, finalize the deletion by clicking **Delete**.

GRANTING AND DENYING ACCESS TO CAMERAS AND LAYOUTS

Access control to cameras and layouts within the Eagle Eye Cloud VMS allows specific choices. It is possible to grant or deny access to individual cameras, layouts, and other settings.


Access can be granted either when initially adding the user to your Eagle Eye Cloud VMS or at any time in the **User Settings** dialog.

1. Click **Users** in the navigation bar on the left.
2. Find the user whose access needs to be edited in the list.
3. Click the gear icon  next to that user to enter their **User Settings**.
4. Use the **Cameras** and **Layouts** tabs to edit the access.
5. Drag and drop cameras or layouts to the appropriate column (**No Access** or **Access**).
6. Click **Save Changes** to finalize the access changes.

Result: The changes will immediately go into effect.

GRANTING PERMISSIONS

Permissions can be granted in many configurations in the Eagle Eye Cloud VMS. In the **Permissions** tab, it is possible to do either of the following:

- Grant users administrator status with permission to control access to everything in the Eagle Eye Cloud VMS.
 - Set permissions on a per user basis.
1. Click **Users** in the navigation bar on the left.
 2. Find the user whose permissions you want to edit in the list.
 3. Click the gear icon  next to that user.
 4. Click the **Permissions** tab to edit the permissions.
 5. Go through the list to view each permission. Click the arrows to expand each section.
 - Check the box next to a permission to grant it.
 - Uncheck the box next to a permission to revoke any previously granted permissions.
 6. Once all changes have been made, click **Save Changes** to implement them.

Audit Log

Audit Log shows the record of events that were taken by users for the selected period of time. See [Figure 37](#).

Figure 37. Audit Log

The screenshot displays the Eagle Eye Networks Audit Log interface. The sidebar on the left contains navigation options: Dashboard (75), Locations, Floor Plans, Layouts (20), Tags (26), Map, Users (96), Manage, Audit Log (selected), Notifications, Archive, Downloads, Video Search, and VSP. The main content area is titled 'Audit Log' and includes filters for Date Range (11/30/2023 - 12/08/2023), Actor Filter (All), Event Filter (All), and Target Filter (All). Below the filters, there is a table of audit events with columns for Timestamp, User, Event, Detail, and Create Alert. The table shows several 'View Recorded Video End' events and 'User Logout' events for a user named 'Mobile Demo'.

Timestamp	User	Event	Detail	Create Alert
2023-12-07 12:39:17 (CST)		View Recorded Video End	Finished viewing video on camera 'CF16 Kitchen (4MP)'	
2023-12-07 12:39:17 (CST)		View Recorded Video End	Finished viewing video on camera 'CF16 Kitchen (4MP)'	
2023-12-07 12:39:15 (CST)		View Recorded Video End	Finished viewing video on camera 'CF16 Kitchen (4MP)'	
2023-12-07 12:39:13 (CST)		View Recorded Video End	Finished viewing video on camera 'CF16 Kitchen (4MP)'	
2023-12-07 12:39:11 (CST)		View Recorded Video End	Finished viewing video on camera 'CF16 Kitchen (4MP)'	
2023-12-07 12:39:07 (CST)	Mobile Demo (###@###.###)	User Logout	User logout from IP ###.###.###.###	
2023-12-07 12:39:06 (CST)	Mobile Demo (###@###.###)	User Logout	User logout from IP ###.###.###.###	
2023-12-07 12:39:06 (CST)	Mobile Demo (###@###.###)	User Logout	User logout from IP ###.###.###.###	
2023-12-07 12:39:06 (CST)	Mobile Demo (###@###.###)	User Logout	User logout from IP ###.###.###.###	

The audit log settings are described below.

- **Date Range:** Select the start date of the event to show in the audit log list. Both start and end dates are inclusive.
- **Actor Filter:** Select to see the audit events from any user on the system.

- **Event Filter:** Select to see all of the events or any specific event from the list:
 - User Login
 - User Logout
 - User Add
 - User Update
 - User Delete
 - Switch Account
 - Update Account
 - Password Reset Request
 - View Live Video
 - View Video Start
 - View Video End
 - Download Request
 - Download Save
 - Device Add
 - Device Update
 - Device Off
 - Device On
 - Device Delete
 - Control Managed Switch
 - Update Managed Switch
 - Layout Add
 - Layout Update
 - Layout Delete
 - Shared Camera Update

- **Target Filter:** Select to see audit events from the targets listed below.
 - All
 - Accounts
 - Devices
 - Layouts
 - Locations
 - Users
 - Video
- **Go:** Performs a search for the selected inputs.
- **CSV:** Downloads all of the registered events for the selected inputs to the CSV format file.
- **Total:** Shows the total count of registered events for the given search.
- **Limit:** Select between 10, 25, 50 or 100 entries per page.
- **Timestamp:** Date and time of the entry.
- **User:** Name and email of the user that performed the action.
- **Event:** Name of the registered event that the user has performed.
- **Detail:** Short description of the event. Click on the entry in order to see more details.
- **Previous:** Open previous page of the results.
- **Next:** Open the next page of the results.

Notifications

Actions performed within the VMS are logged as audit events and saved in the audit log. These events are saved for one year for auditing purposes, showing which user did or changed what thing at what time. Audit Notifications control which of these events notify people and who is notified. For example, as an administrator, you may want to

know when camera settings are changed. You can set up an audit notification to email if changes are made and let you know who is making those changes. See [Figure 38](#).

Figure 38. Audit Notifications

Name	Description	Last Event	Enabled	Actions
watchlist 543E4U @	watchlist 543E4U @		<input checked="" type="checkbox"/>	
whitelist 543E4U @	whitelist 543E4U @		<input checked="" type="checkbox"/>	
blacklist 543E4U @	blacklist 543E4U @		<input checked="" type="checkbox"/>	
watchlist 8wz667 @	watchlist 8wz667 @		<input checked="" type="checkbox"/>	
whitelist 453 @	whitelist 453 @		<input checked="" type="checkbox"/>	
blacklist RLF6645 @	blacklist RLF6645 @		<input checked="" type="checkbox"/>	
whitelist LGV0276 @	whitelist LGV0276 @		<input checked="" type="checkbox"/>	
whitelist EDFF23444 @	whitelist EDFF23444 @		<input checked="" type="checkbox"/>	
watchlist LRJ-7145 @	watchlist LRJ-7145 @		<input checked="" type="checkbox"/>	
watchlist LRJ-7145 @ Capital Factory West	watchlist LRJ-7145 @ Capital Factory West		<input checked="" type="checkbox"/>	

Audit Notifications are described below.

- **New Notification:** Fill in the following fields to create a new notification.
 - **Notification Name:** Enter a name for the notification; this should be clear enough to understand briefly; for example, “Video Deleted” or “John Doe Logged In.”
 - **Description:** Enter a longer description for the notification that helps a user understand what caused them to receive the notification.

- **Audit Source Event:** Fill in the following fields to filter source events.
 - **Actor Filter:** Use this field if your notification only needs triggering when certain people perform an action. Enter their name(s) or email address(es) here; multiple entries can be entered.
 - **Event Filter:** Choose the event that triggers the notification; the options include Update Bridge, Camera, Switch, Login, View Video, etc.
 - **Advanced**
 - **Filter using Domain:** Only search for users with email addresses in a specific domain(s); multiple allowed.
 - **Filter by Location:** Limit the search for users/bridges/cameras to specific location(s); multiple allowed.
 - **Target Filter:** Limit search to users, bridges, cameras, layouts, etc.
- **Alert:** Fill in the following fields to filter alerts.
 - **Who:** Enter the name or email addresses of the people who are alerted when this notification triggers.
 - **Advanced**
 - **Location Filter:** Filter by location name.
 - **When:** Choose when the alert is active; this allows alerts to be muted during office hours, on weekends, etc.
 - **Re-Arm:** Set when the alert will notify people again; use this to limit the number of notifications people receive.
 - **Max per Hour:** Set the highest number of alerts that can be generated per hour.

Tags

Each camera has a field for adding any number of tags. You can use these tags to get a quick overview of cameras that share the same tags, without needing to organize them onto a layout.

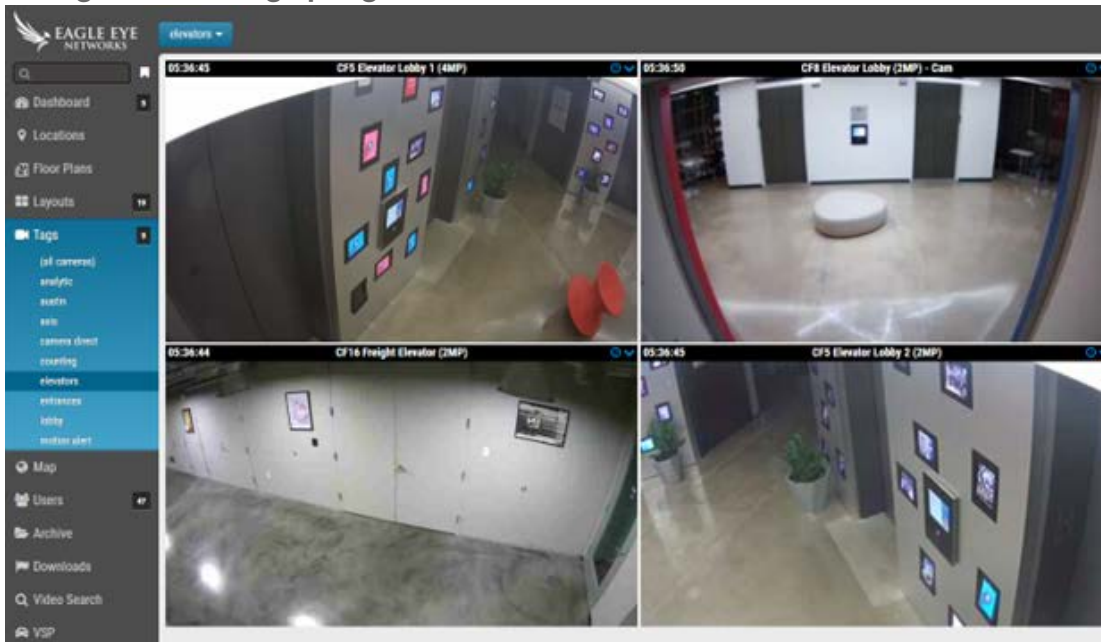
Accessing Tags

To access tags, do the following:

1. Click **Tags** in the left navigation menu to drop down a list of tags.
2. Click one of these tags to open a layout-like page where you can view preview video for all cameras with the same tag.

See [Figure 39](#) for an example of Tags in the VMS.

Figure 39. Setting up Tags



Map

The Map feature provides a way to view your cameras based on their physical location with the camera overlaid on Google Maps.

You can also set the correct angle, range, and field of view to have an accurate display of your camera coverage. Clicking a camera on the map brings up the preview video of the camera. Once the preview is visible, the same controls are available as viewing cameras from **Layouts** or the **Dashboard** page.

Multiple floors can be set up with separate views or viewed all at once. The drop-down menu in the upper-right corner of the map allows selecting which floor to view or **All Floors** to see all cameras.

ADD CAMERAS TO THE MAP

There are two ways to add cameras to the map.

- Add the address to a camera by going to **Camera Settings → Location**.

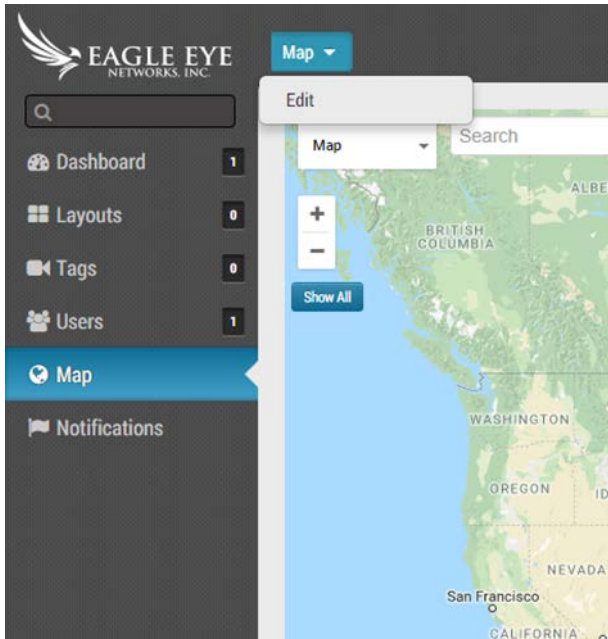
Note: Entering a street address adds the camera to the map and automatically fills in a latitude and longitude. By default, the cameras are added to the 1st Floor. Changing the number in settings will move the floor a camera is on. Floors from -10 to 100 can be added to the map.

- The second method involves adding cameras directly from the map and offers much more immediate customization. The next section contains instructions for this procedure.

ADDING CAMERAS DIRECTLY TO THE MAP

Figure 40 shows how to access the map edit functions.

Figure 40. Accessing Map Edit Mode



To add cameras directly to the map, do the following:

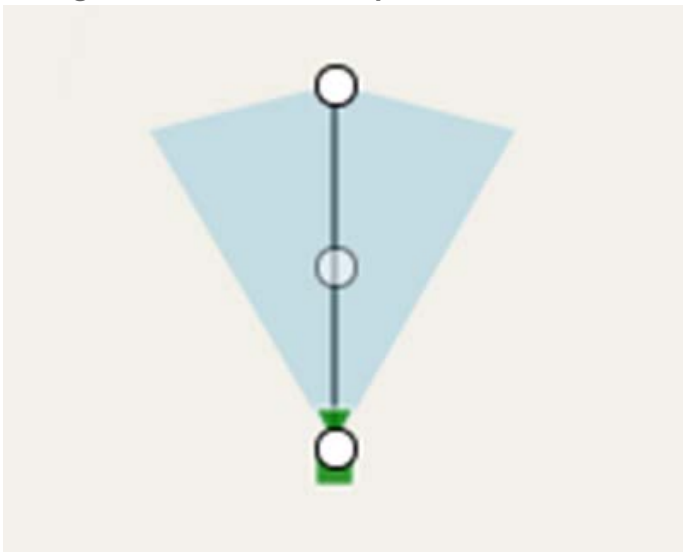
1. Go to the map and click the **Map** drop-down button at the upper left, then select **Edit**. This will add a red outline to the map indicating you are in Edit mode. A new set of buttons will appear at the top of the map. See [Figure 41](#).

Figure 41. Adding Cameras in Map Edit Mode



2. Enter the address of the location in the search bar. This will zoom the map to the address location. This is an embedded Google Map, so all expected functionality is available, including pan and zoom using a mouse or touch pad.
3. Use the **Add Camera** drop-down, which presents a list of the available cameras. Select the camera and it will be added immediately to the map.
4. (Optional) Move the camera by clicking and dragging the circle directly on the camera. Change the direction and range of the camera by clicking and dragging the circle farthest away from the camera. See [Figure 42](#).

Figure 42. Camera on Map in Edit Mode



5. Add additional cameras and floors and then click the green **Save** button.

When cameras are added to the map, data is automatically populated in the camera's location value. See [Figure 43](#).

Figure 43. Viewing Location Values that are Automatically Populated by Map

Camera Retention Resolution Motion Analytics Audio **Location** Metrics Maintenance

Location Name: 16th Floor Freight Elevator

Street Address: 700 San Jacinto Blvd, Austin, TX 78701, USA (street, city, state, zip)

Latitude: 30.269076 (-90.0–90.0) Longitude: -97.740694 (-180.0–180.0)

Azimuth: 101.680996 (0.0–360.0; 0.0=North) Range: 7.77547 (feet)

Floor: 16 (number)

Cancel Save Changes

EDITING CAMERAS LOCATIONS IN MAP

Any edits to the camera's physical location need to be done in **Camera Settings → Location**. This includes changing the **Floor** value of the camera.

REMOVING CAMERAS FROM THE MAP

To delete a camera from the map, delete the street address in **Camera Settings → Location**.

Archive

Videos in the Eagle Eye Cloud VMS can be added to the Archive for permanent storage or compiled and uploaded to the [Downloads](#) section for downloading to a local device. After downloading, videos can be viewed or shared without internet connection. Before a video can be archived or downloaded, you need to create a clip.

Important: Archived clips can be downloaded and are kept for as long as needed, but clips saved to download expire.

Creating a Clip

Clips can be created in the [History Browser](#).

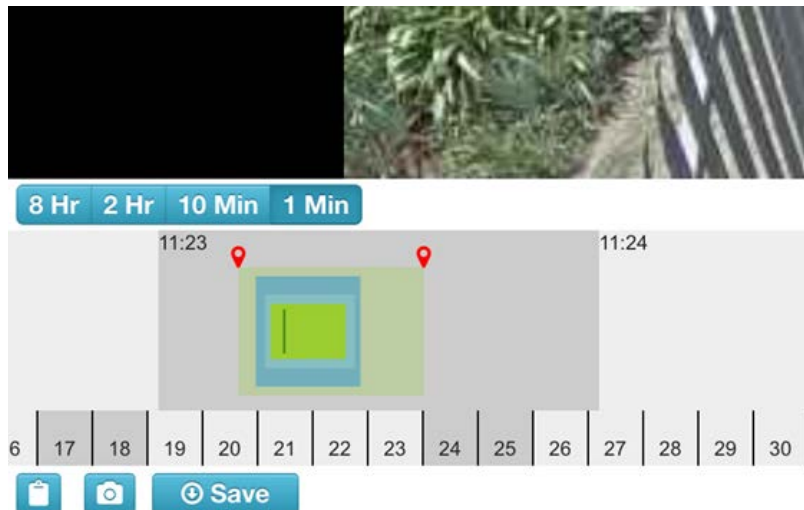
After reviewing the video and having determined what part you want to save as a clip, do the following:

1. Hold down **Shift** and click to drop a marker at the desired start time.
2. Repeat the same to drop another marker at the desired end time.

Note: Alternatively, you can note the start and end times, and manually enter them.

The area between the markers is highlighted to indicate the clip's span. You can remove the highlighted area by clicking anywhere inside the highlighted area. See [Figure 44](#).

Figure 44. Archiving Video



Click **Save** to create a clip that can be archived or downloaded as an MP4 file. If there is no selected area the download screen will default to the current video segment under the cursor.

After you click **Save**, a window will pop-up with the following options to configure your clip:

- **Start** – Starts the time of the video download.
- **Stop** – Ends the time of the video to be downloaded.
- **Type** – Chooses whether you want to save just the video, the preview timelapse, or a bundle.
 - **Video** – Saves the full-resolution video of the clip.
 - **Preview Timelapse** – Saves a timelapse of the video at the preview video quality. If you choose this option, you also need to choose the speed of the timelapse: from 1x-16x.
 - **Bundle** – Saves both the full-resolution video and the preview timelapse.
- **Description** – Labels the clip.
- **Time Stamp** – Indicates whether to include time stamp information.
- **Notes** – Includes any additional information about the clip.

Once you have populated the fields, choose to either **Archive** or **Download**. Click the appropriate button at the bottom of the screen to do one or the other.

If you choose **Archive**, choose the folder to save the archived clip (or create a new one).

Archiving Video

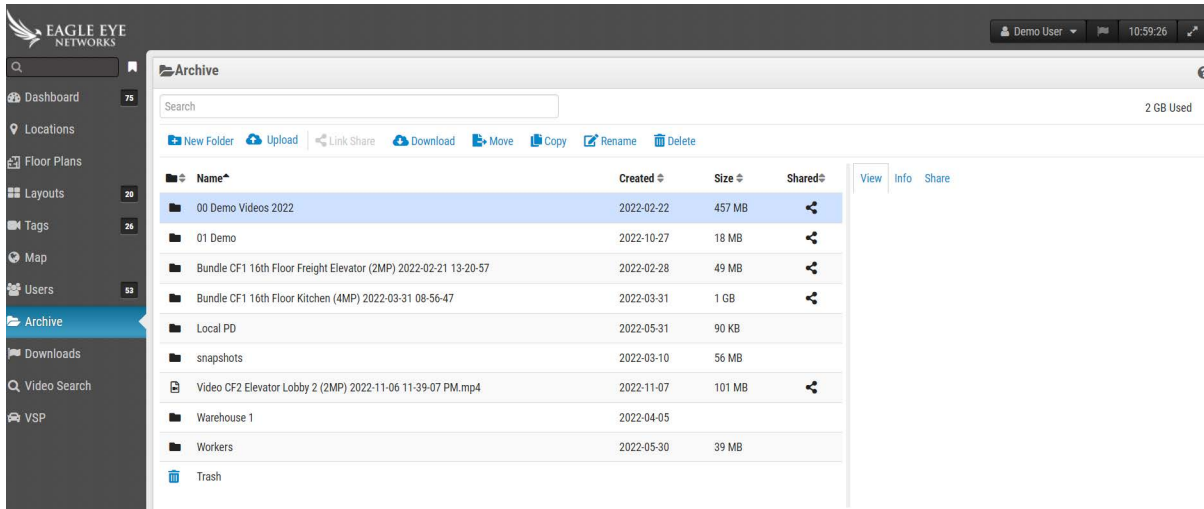
The Archive allows you to save and store video clips outside of the normal duration of cloud retention. After a clip is archived, it can be viewed directly in the Archive, or downloaded to the local device.

The Archive also allows you to provide video clips of a crime or incident to law enforcement or first responders without having to create an account for them. This makes it easier for external users to view the video clip, allowing them to access it directly from their email rather than having to log in to an account and navigate to the archived video.

NAVIGATE THE ARCHIVE AND SHARE CLIPS

The Archive is represented in directory form where folders and files can be organized and optionally shared via a secure link to anyone, without requiring a user login. The secure links can be revoked anytime or set to expire on a specific date. Any files and folders that are shared are clearly marked within the Archive. See [Figure 45](#).

Figure 45. Navigating the Archive



The Archive feature makes organizing and saving clips quick and easy and allows you to include additional important and relevant documents with the archived video. You can attach a police or incident report with the archived video and store the documents and videos for up to one year without being charged for extra storage.

Also, when providing an archived video link to a third party, an expiration date can be set on the link so that access to the video is revoked after a set time frame. This way, a third party will have access to a video during the period when it is necessary and then access will be removed when the video is no longer needed or relevant to the third party, providing VMS users with complete control over who can view archived video and when.

To share a video in the Archive, simply select the video and click the **Link Share** button: 

USING THE ARCHIVE

You have the following buttons and tabs available within the Archive:

- **Actions** – Select one or more files or folders to share, move or copy the selection to another location in the Archive or delete or download the selection. Multiple folders and files can be selected using the same methods that are default for each Operating System (**Ctrl-click**, **Command-click**).
- **New Folder** – Click to create and name a new folder in the Archive.

- **Upload** – The Upload button allows you to add a clip/file to the Archive from the local device.
- **Link Share** – Click to enable sharing of a file or folder from the Archive.
- **Download** – Click to download the selected files or folders.
- **Shared Column** – Creates a unique link to a file or folder. An icon in this column indicates a unique link to a file or folder. Click the Share tab above the video preview to view the link and expiration date.

VIEW TAB

The **View** tab is shown by default when you select a video. This is how to view archived video.

INFO TAB

The **Info** tab shows the additional information about the file: date and time of creation, who and when created, date shared, the link if the file or the folder was shared, description, and list of tags.

SHARE TAB

The **Share** tab is only available when clips have been shared. It displays the URL for the video, along with buttons to copy the link to the clipboard or delete the URL (thereby canceling the share). You can also view or change the expiration date for the share and view the date the clip was originally shared.

ARCHIVE PERMISSIONS

VMS users can be granted read-only access to the Archive or full editing rights.


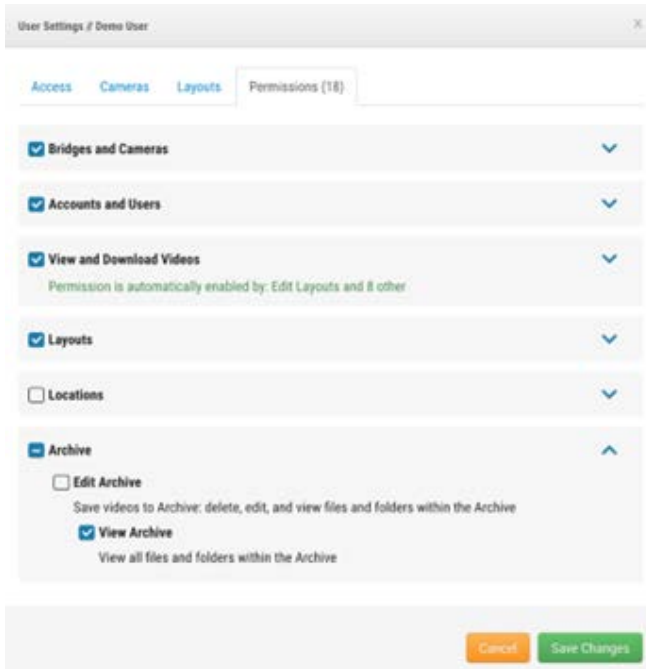
1. Click **Users** on the left-side menu, then click the gear icon  next to the desired user.
2. Click the **Permissions** tab, then the drop-down arrow next to Archive.
3. Select whether the user can only **View** the Archive, has full **Edit** access to the Archive, or cannot access the Archive at all (make sure neither box is checked). A user with only View permission cannot save clips to the Archive. See [Figure 46](#).

Figure 46. Setting Archive Permissions



User Settings of Demo User

Access Cameras Layouts Permissions (18)

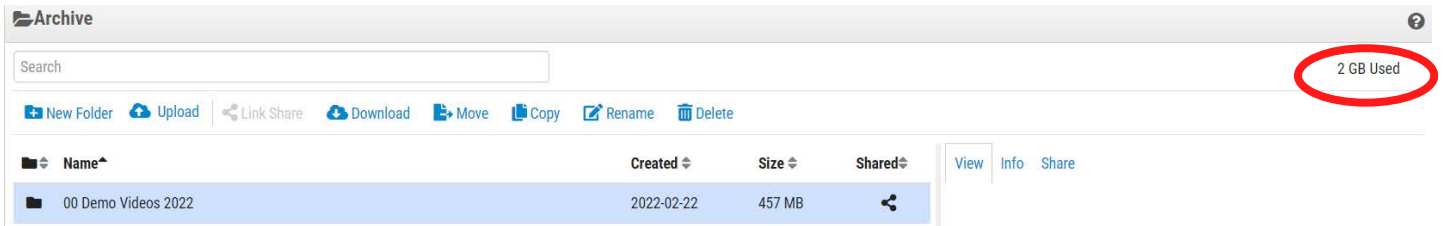
- Bridges and Cameras
- Accounts and Users
- View and Download Videos
Permission is automatically enabled by: Edit Layouts and 8 other
- Layouts
- Locations
- Archive
 - Edit Archive
Save videos to Archive: delete, edit, and view files and folders within the Archive
 - View Archive
View all files and folders within the Archive

Cancel Save Changes

ARCHIVE STORAGE LIMITS

The Archive is limited to 10 GB of storage. If the 10 GB threshold is crossed, additional billing may occur. The amount of storage used is shown in the top right corner. Additional Archive subscriptions are available for 100 GB and 1 TB. Contact your Reseller for more information. See [Figure 47](#).

Figure 47. Archive Storage Limits



The screenshot shows the Archive interface. At the top right, a status bar indicates "2 GB Used", which is circled in red. Below the search bar is a toolbar with icons for "New Folder", "Upload", "Link Share", "Download", "Move", "Copy", "Rename", and "Delete". A table below the toolbar lists files and folders with columns for "Name", "Created", "Size", and "Shared". The table contains one entry: "00 Demo Videos 2022" with a creation date of "2022-02-22" and a size of "457 MB".

Name	Created	Size	Shared
00 Demo Videos 2022	2022-02-22	457 MB	

Downloads

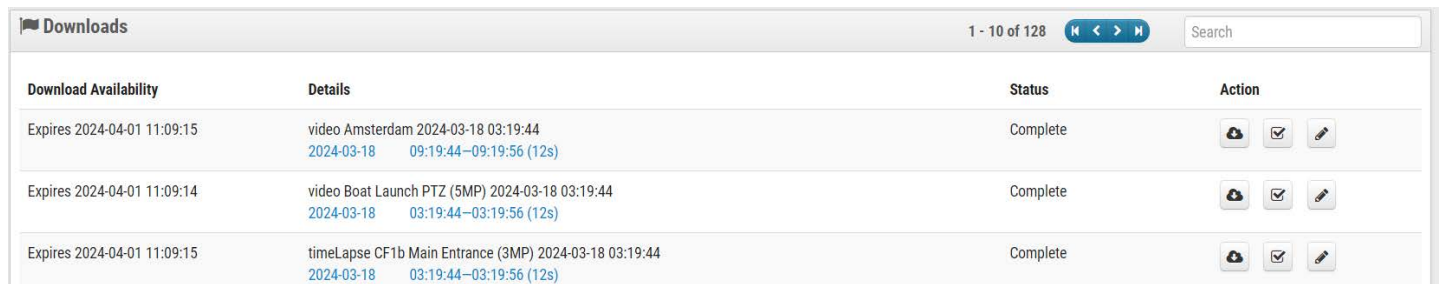
When you click **Download** after creating a clip, a window pops up immediately with information that the download is being prepared, and it will estimate the completion time.









To access your downloadable clips, click **Downloads** on the left navigation pane.

Using the Downloads Page

To access your downloadable clips, click **Downloads** on the left side navigation panel. See [Figure 48](#).

Figure 48. Downloads Page



Download Availability	Details	Status	Action
Expires 2024-04-01 11:09:15	video Amsterdam 2024-03-18 03:19:44 2024-03-18 09:19:44–09:19:56 (12s)	Complete	  
Expires 2024-04-01 11:09:14	video Boat Launch PTZ (5MP) 2024-03-18 03:19:44 2024-03-18 03:19:44–03:19:56 (12s)	Complete	  
Expires 2024-04-01 11:09:15	timeLapse CF1b Main Entrance (3MP) 2024-03-18 03:19:44 2024-03-18 03:19:44–03:19:56 (12s)	Complete	  

Download Availability

This column shows you when the download expires or the date it expired. When a download is created, it is available for 14 days.

Note: A download might contain multiple clips in a zipped file. If a recording is interrupted, the download will stop and restart with a new clip when recording begins again.

Details

The **Details** column shows you the important information to make sure you are downloading the correct file. It shows the camera name, the clip's date and timestamp, and the file size. It also tells you if an expired download is out of its retention period.

There are three options for what type of video to save.

- **Video:** This option saves the full resolution video.

- **Bundle:** This option saves both the full resolution video and the one frame per second timelapse preview video.
- **Preview Timelapse:** This option saves the low resolution one frame per second preview video.

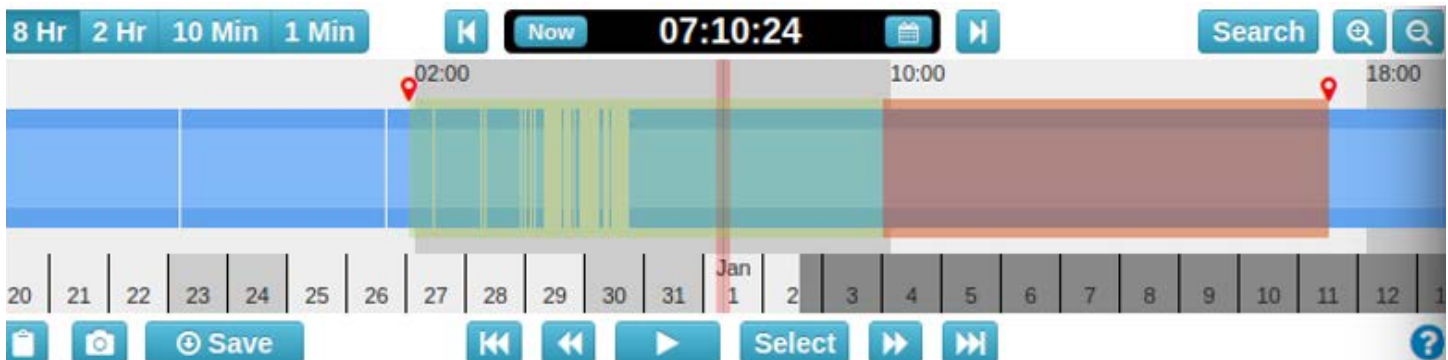
Note: If a file is expired, but still in the retention period, it can be requested again (see the Actions column). If the clip is outside the set retention period, the video cannot be reclaimed. Video that needs to remain available beyond the retention period needs to be archived.

For clips within the retention period, click the date or timestamp to open the History Browser to that time.

Clicking **Download** does not immediately save the clip. The VMS prepares the download, then you will need to navigate to Downloads in the left-side menu to actually save the clip to your device. This can take some time to be prepared, based on how long the selection is.

Note: You can only record eight hours of consecutive video. If you select more than eight hours on the timeline, the time highlighted in red on the timeline will not be downloaded. See [Figure 49](#).

Figure 49. Timeline




Status


The options for the Status column are described below:


- **Completed:** The file or files have been downloaded.
- **In Progress:** The file or files are in the process of being downloaded. You must wait until the files have been downloaded to view them.
- **Partially Failed:** Less than 70% of the video was able to be downloaded.
- **Failed:** The file failed to download.


Action

The **Action** column contains several buttons, depending on the status of the clip.

 – Click the pencil icon to add notes to the download. Use this field to provide background information about why the download was created.

 – Click this button to download the clip or bundle. If the download expired and is outside the retention period, the icon is grayed out.

 – Click this button to copy the MD5 Checksum value to the clipboard. This is used to verify the video has not been tampered with.

 – If a download is expired, but still within the retention period, this button will appear instead of the **Download** button. When clicked, the VMS begins the process of preparing the clip for download once again. Refresh the page to see the status of the process. Once it's complete, the **Download** button will be available to click. This button also appears on **Failed** and **Partially Failed** downloads.

Export Player

You can view any downloaded video in the Export Player. If you have a video from a fisheye camera, the Export Player dewarps it.

To view a dewarped version of a video from a fisheye camera, do the following:

1. Download the video to your computer.
2. Go to <https://exportplayer.eagleeyenetworks.com/>.
3. Drag and drop the video or browse to the Downloads folder on your computer into the Export Player.
4. View the dewarped video in the player. Use the controls in the player to rewind, pause, etc.

Note: The Export Player does not dewarp tampered fisheye videos.

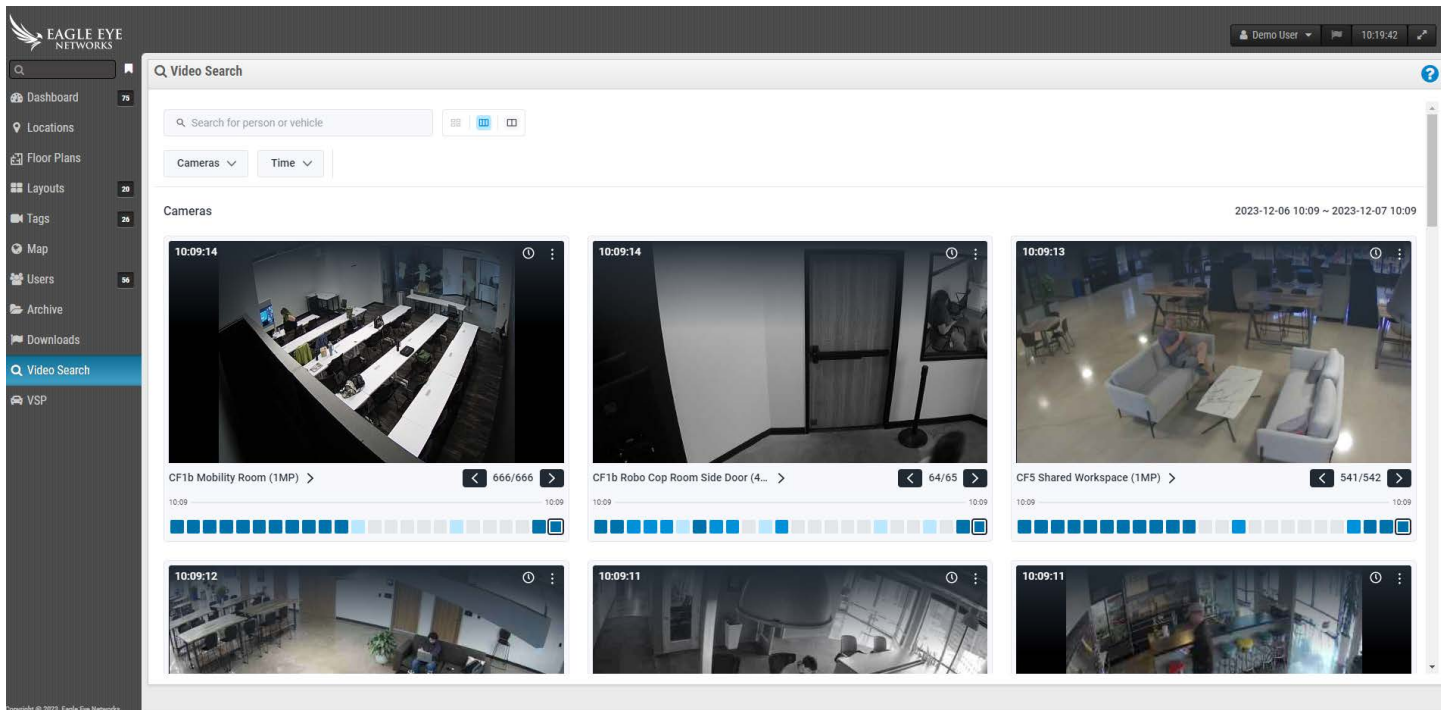
Video Search

Use the information in this chapter to improve your search results in the VMS.

Smart Video Search

Smart video search in the VMS lets you use natural language to quickly and easily find people, vehicles, or objects throughout your camera infrastructure. See [Figure 50](#) for an example of the Video Search page in the VMS.

Figure 50. Video Search



CONFIGURATION FOR OPTIMAL RESULTS

Smart Video Search works on both bridges and CMVRs. When motion is detected, the bridge sends key images to the VMS. These key images are processed by AI models in real-time to identify vehicles/people/objects.

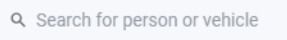

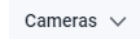


It is important to make sure that CMVRs are not set to “Minimum Bandwidth mode” in order to receive key images for processing.

The recommended preview video resolution is 640x360.

A NOTE ON SEARCH RESULTS

Smart Video Search utilizes a “wide search” to ensure that you do not miss anything that meets your search query. This means that the system may incorrectly label a few shirt colors, car makes, etc. This is to make sure that nothing that does match your query is missed. We think it’s better to have a few extra results to sift through rather than miss any result that matches what you’re looking for.

BUTTON OVERVIEW

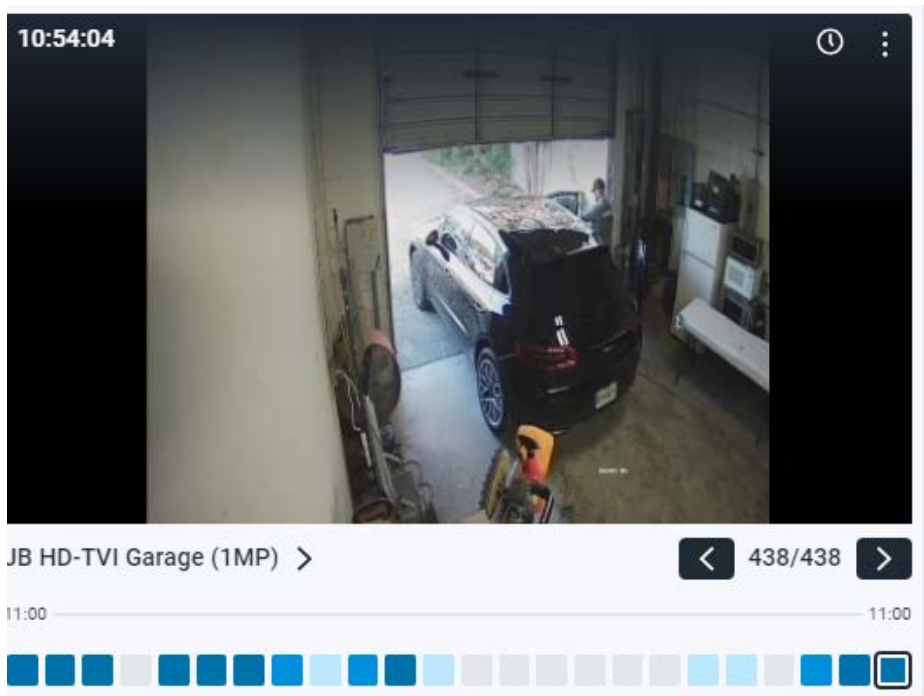
-  Enter search terms here. Can be broad (person) or specific (man in red shirt). You can search for people, vehicles, or objects, depending on the VMS Edition.
-  Enlarge the Key Images.
-  Click this button to bring up filters for cameras that are included in the search results. These filters include individual cameras, tags, regions of interests, and, in Pro/Enterprise Editions only, Groups and Locations. Each filter allows you to select multiple individual entries or all.
-  Click this button to change the day, time, and time intervals that are being searched. By default, search will automatically use the previous 24 hours. You can change the day of the search and the 24 hour period that is being searched, or change the search window to one, four, or twelve hours.
-  Click this button to search for people. After you click the button, you can access the options below to fine-tune your search by clicking the Person drop-down button.
 - **Trash Can:** Remove the person filter from your search.
 - **Gender:** Specify whether you’re looking for Female, Male, or Any.
 - **Upper Body Clothing Color:** Choose the color of the shirt, jacket, or other upper body clothing.
 - **Lower Body Clothing Color:** Select the color of pants, skirt, etc. for lower body clothing.

- **Vehicle** ▾ Click this button to do a general search for vehicles. After clicking this, you can click the newly displayed Vehicle drop-down button to display additional filters.
 - **Trash Can:** Remove the vehicle filter from your search.
 - **Class:** Select whether you want to search for buses, cars, motorbikes, trucks, or any.
 - **Color:** Specify the color of the vehicle to search for.
 - **Make:** Choose the manufacturer of the vehicle you want to search.


Search Results




When you search any terms, or apply any filters, the search results will automatically update. Each camera that has any result in the selected time period will be displayed as shown in [Figure 51](#).

Figure 51. Search Results

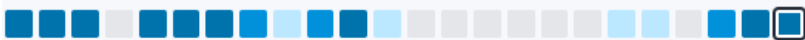


Each of these camera results will show the following:

- Time of the latest result, shown in the top-left corner of the video preview image.
-  Click this icon to open the history browser at the time of the result shown in the video preview image.

-  Click this icon to open a menu with additional options.
 - **Find Similar Images:** Click this to search for other images that match the description.
 - **Incident Explorer:** Click to open the Incident Explorer to dive deeper into the Video Search feature. This feature is only available with Pro and Enterprise Editions. More details below.
 - **Live View:** Open the camera's live view in a new window.
- Click the video preview image to enlarge the image and look at the metadata.
-  The count shows you the total number of search results in the time period.
-  The series of boxes at the bottom of the image is called the density map. This breaks the time period into equal time frames and gives you an idea of how many times the person, vehicle, or object you searched for appears in that time frame. The darker the blue, the more times the person or thing was detected. More information on the density map below.





DENSITY MAP



The density map breaks the search time period into equal blocks of time and shows you how many results for your search occurred in that time block. If you change the time filter to search a smaller time range, the density map time blocks will represent a shorter amount of time. The actual numbers are broken down as:

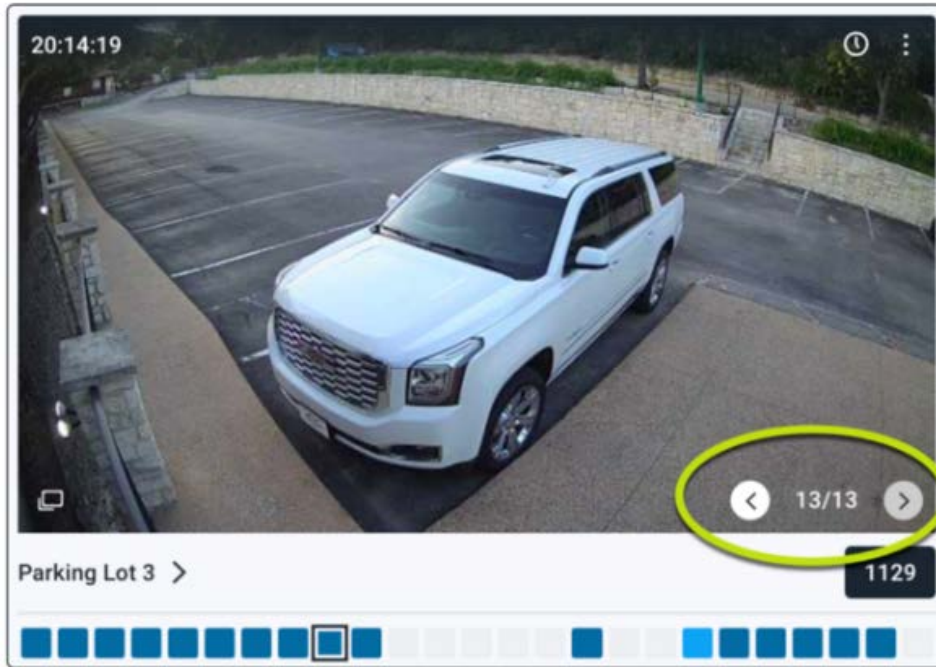
- **24 Hour Time Period:** 1 hour blocks
- **12 Hour Time Period:** 30 minute blocks
- **4 Hour Time Period:** 10 minute blocks
- **1 Hour Time Period:** Approximately 2 minute blocks

The time blocks are color coded to indicate the number of search results for that block.

-  - Zero results
-  - One result
-  - Two to four results
-  - Five or more results

You can click on a time block to view images of the search results for that time. Navigation arrows and the total number of results will appear in the bottom-right corner of the image, as shown below. Click the arrows to cycle through the results. See [Figure 52](#).

Figure 52. Search Results for a Time



Incident Explorer (Pro/Enterprise Editions Only)

The Incident Explorer gives you additional capabilities to analyze your search results and expand them to track a person, video, or object throughout your camera infrastructure. See [Figure 53](#).

Figure 53. Incident Explore Homer

Video search **first floor exit** ✕

The screenshot displays the Incident Explorer interface. At the top, there is a search bar with the text "first floor exit" and a close button. Below the search bar is a video player showing a frame from a camera feed. The video player has a title bar with "first floor exit", "Incident explorer", and the date and time "2022-06-22 14:43:39". The video frame shows a hallway with a staircase on the right and a person walking away from the camera. There are three white bounding boxes around people in the frame. Below the video player is a timeline with a scale from 14:42:12 to 14:44:42. The timeline shows a series of blue bars representing video segments. One bar is highlighted with a red box. To the right of the video player is a section titled "Image data" with three search bars containing the following text: "person in brown lowerwear", "person in black upperwear and black lowerwear", and "male in blue upperwear and brown lowerwear".

Image data

- person in brown lowerwear
- person in black upperwear and black lowerwear
- male in blue upperwear and brown lowerwear

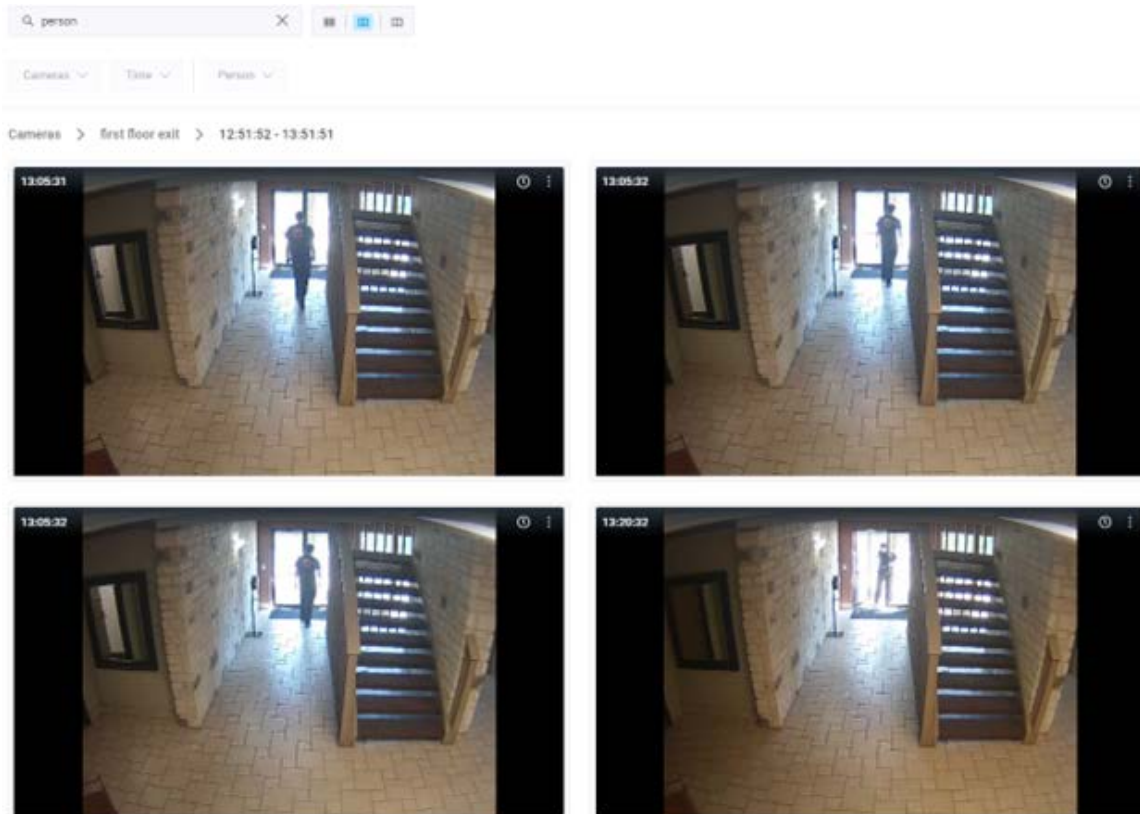
Layouts

first floor exit

INCIDENT EXPLORER NAVIGATION


See [Figure 54](#) for an example of the Incident Explorer navigation window.


Figure 54. Incident Explorer Navigation





The Incident Explorer Navigation tools are described in the following section.

- **Video search** `first floor exit` × When you open the Incident Explorer, it opens a new tab. Click Video search to return to your search query. You can open multiple Incident Explorer instances and cycle through them in the tabs.
- `first floor exit` > Click on the camera name to look at all images from that camera.
- `12:51:52 - 13:51:51` > Click on a specific time to display all images in that time window from that camera.

-  This shows the name of the camera you are viewing and the date and time of the image shown.


-  Click this icon to open a drop-down menu that will take you to the live view of the camera or the history browser at that timestamp.

-  Click these arrows to cycle through the search results in this time block. The image data section will update with what was detected in that frame.

-  Cycle through each frame of the video in the time block.

- **Image Data** - The Image data section displays what video search detected in the frame. You can click on the text to highlight the detection box around the person, vehicle, or object. Click the magnifying glass in the Image data section to run a new search for that description.



-  The time bar and density map shows you how many detections occurred at each time block. The time bar helps you to get an idea of the time it occurred.


SEARCH SUSPICIOUS PERSON/VEHICLE ACROSS CAMERAS

The Smart Video Search Incident Explorer also makes it easy to track a person/vehicle across all of your cameras. Whenever a detection is made, a unique re-identification ID (reID) is generated for it. This reID is then applied to all instances of that person/vehicle in your VMS.

To track everywhere that person/vehicle has been, click the detection box around the person/vehicle to highlight it. Then, simply click the magnifying glass that appears above the detection box. This will change to the Video Search tab and search for that person's/vehicle's reID, letting you see everywhere it's been caught on your video.

Blocking Unused Areas From Video Search

Some of your cameras may have certain areas that you aren't interested in searching. For example, there could be a window with vehicles driving by outside. You can use motion regions of interest to create a motion mask for that area.

1. Navigate to the Dashboard and find the camera that you need to create a mask for.
2. Click the gear icon  next to the camera to bring up **Camera Settings**.
3. Click the **Motion** tab. See [Motion Detection](#) for more information.
4. Click the **+** button to create a new motion region.
5. In this region, adjust the sensitivity to 0.

Now, any motion that occurs in this region will not generate Video Search results.

Camera Actions

Before adding cameras, complete the following steps:

- Install all necessary hardware and connect everything to your network.
- Set up your login information and grant access to other users.

For more information, see the [Getting Started](#) and [Other Viewing Options](#) sections of this guide.

Adding Cameras to the VMS

Once a bridge has been added to an account it will begin to scan the network for compatible cameras through both the WAN and CamLAN ports of the bridge. When cameras are found, they appear in the **Available Cameras** section.


Note: The process may take up to five minutes. If a camera still does not show in the VMS, or if it appears as “Unknown Camera,” reboot the camera.

Important: Eagle Eye Networks recommends connecting cameras only to the CamLAN port. In more complex network environments, it may be necessary to have cameras on the WAN, but take into consideration that this can expose camera IP addresses.

Important: A camera will not show as available unless it is on the same IP scheme as the bridge. Additionally, it must have ONVIF configured or the bridge will be unable to find the device.

Note: It is possible to add RTSP cameras to the VMS. See [Adding RTSP Cameras to the VMS](#) for instructions.

To add an available camera:

1. Click the green plus button  to the right of the camera name. See [Figure 55](#).

Note: This will open a dialog box where you can adjust the camera’s initial settings. See [Figure 56](#).

Figure 55. Adding a Camera to the VMS

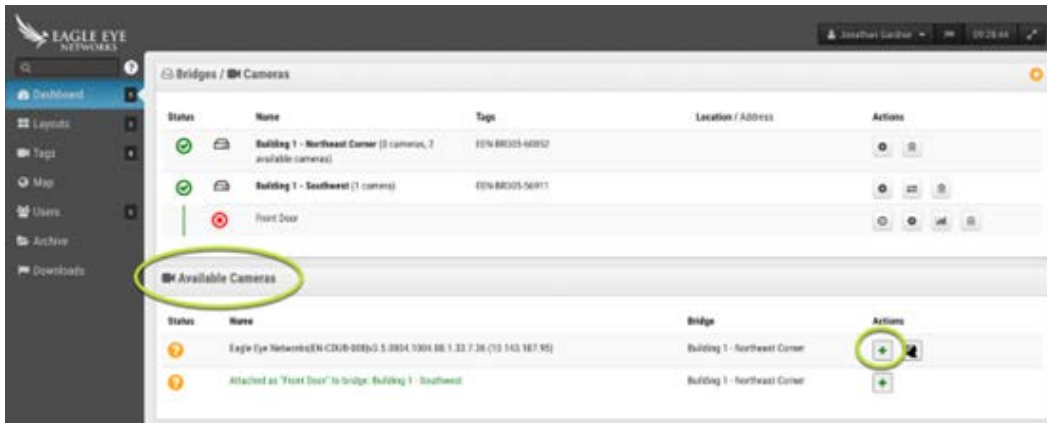


Figure 56. Viewing Initial Camera Settings

Add Camera // Eagle Eye Networks|EN-CDUB-008|v3.5.0804.1004.88.1.33.7.36 (10.143.187.95) X

Camera name: Cloud Retention:

Scene:

Tags:

Add username and password (optional)

2. Review the settings and make adjustments as necessary.

The available initial camera settings are:

- **Camera Name:** Assign a name to the camera. This name is shown in the Dashboard, Alerts, and Layout displays. Best practice is to use a naming convention descriptive enough to identify the camera and can be applied to cameras added to the VMS later.
- **Cloud Retention:** Choose how long the camera’s data will be stored in the cloud. This value affects billing.
- **Scene:** Choose the scene of the camera. This is optional but can be used for dynamic filtering.
- **Tags:** Select from previously used tags or create new ones for the camera. These tags are used to create groupings of cameras. Like Layouts, use tags to view preview feeds of all cameras with that tag.
- **Username and Password:** Assign a username and password to access the camera.

For most cameras this is the same username and password that access the web interface. For AXIS cameras this is the username and password for ONVIF access. These values are not always required,


such as if the camera logs in by default. Analog cameras do not need the login fields.

If the **Account → Camera Settings** login field was used, the information does not need to be duplicated here. This is typically used when there are a lot of cameras that share the same login credentials.

Note: There are certain password limitations. Most special characters can be used for camera passwords, but there are a few exceptions. You might need to update the camera's password if the Eagle Eye Cloud VMS cannot properly log in to the device. Password characters that cannot be used on the VMS are: &, “, <, @, and /.

If the connected cameras do not appear in the **Available Cameras** list after five minutes, try power cycling them. Some cameras only broadcast an ONVIF signal upon initial startup. Ensure that ONVIF is properly configured before attempting to attach them to the bridge.

Deleting Cameras

Click the delete icon  next to the camera on the Dashboard to delete the camera from your VMS. You must confirm this action in the next prompt to permanently remove the camera from the VMS.

Important: All video is lost and cannot be retrieved after a camera is deleted. Save any video you want to keep before deleting a camera from the VMS.

Setting the Camera Web Password

It is strongly recommended that you change the default passwords on your cameras using their web interface. Most cameras use the same password for ONVIF and their web interface so you will need to update the ONVIF username and password in Camera Settings with the correct password when you change the web password.

SETTING THE CAMERA ONVIF PASSWORD (AXIS/HIKVISION)

AXIS and Hikvision cameras sometimes have separate accounts for ONVIF and the web interface. A new ONVIF user must be created in the Axis or Hikvision web interface, and then the ONVIF username and password will need to be updated in Camera Settings.

For more information, visit:

<https://support.een.com/portal/en/kb/articles/axis-camera-configuration-guide>

<https://support.een.com/portal/en/kb/articles/hikvision-camera-configuration-guide>

SETTING A CAMERA'S STATIC IP ADDRESS

Before you begin: Make sure the IP addresses you use do not conflict with each other or any other devices on the network.

Note: You must set the static address for the camera using the camera's web interface. If using CamLAN, addresses 10.143.0.2–99 are available to use as static addresses. CamLAN begins serving DHCP addresses at 10.143.0.1.

Adding RTSP Cameras to the VMS

The Eagle Eye Cloud VMS can connect to almost any IP camera via ONVIF, but in certain cases, it is necessary to connect the camera using Real Time Streaming Protocol (RTSP). This can be either single or dual stream.

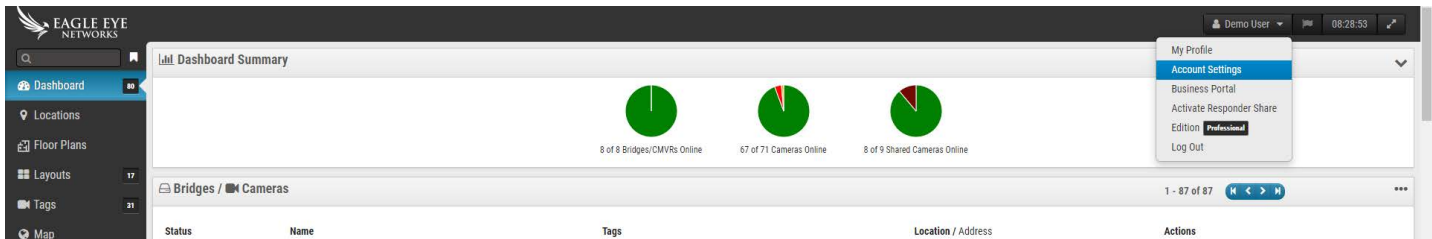
Note: The processing power required to connect single-stream RTSP streams is almost four times higher than ONVIF, because the Bridge/CMVR has to transcode the stream for high-resolution (H264) and preview (MJPEG) viewing.

Important: To add a camera through RTSP requires a static IP for the camera and the RTSP URLs from the manufacturer. Although the RTSP protocol is standardized, the actual URLs for each device vary. Most brands include this information with the camera's documentation, however the installer may need to contact the manufacturer.

To add an RTSP camera to the Eagle Eye Cloud VMS:

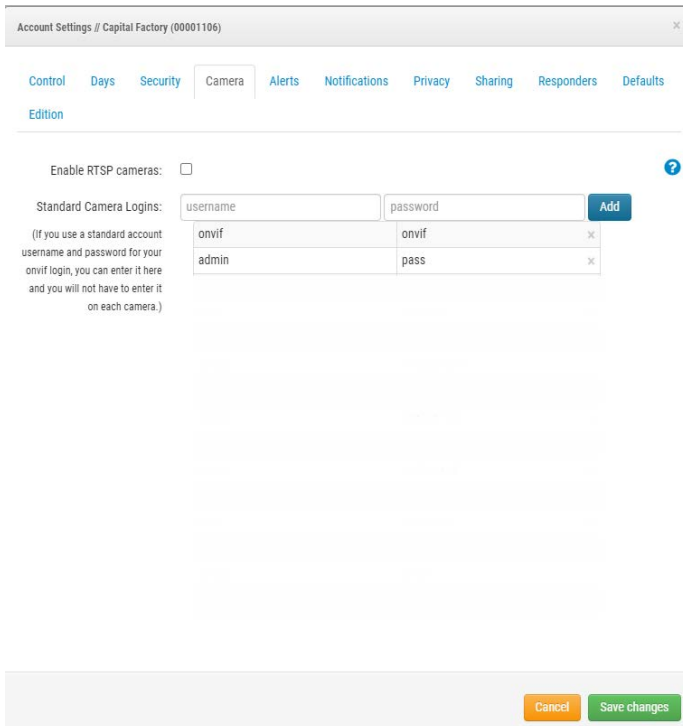
1. Log in to the VMS as an administrator.
2. On the Dashboard, go to **Account Settings** in the drop-down menu below your user name. See [Figure 57](#).

Figure 57. Locating Account Settings



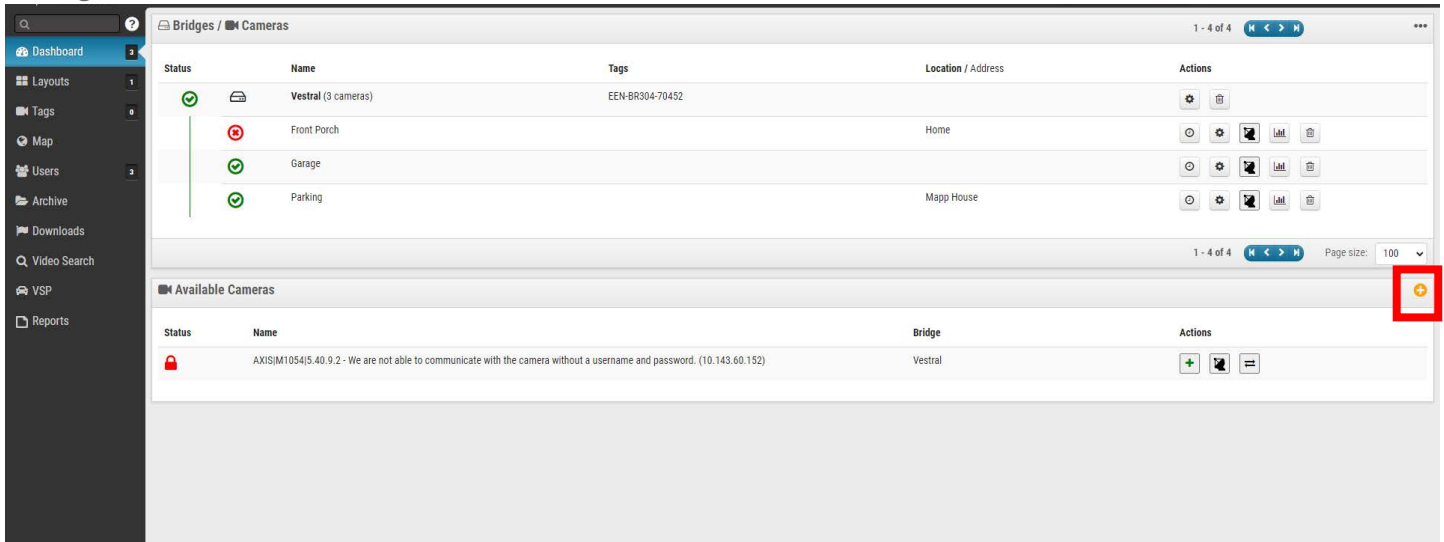
3. On the **Camera** tab, check the box for **Enable RTSP Cameras**. Click Save Changes. See [Figure 58](#).

Figure 58. Enabling RTSP Cameras



4. The option to add cameras via RTSP should now be available in the Dashboard next to **Available Cameras**. See [Figure 59](#).

Figure 59. Available RTSP Cameras




5. Click the orange plus icon  in the upper left corner of the **Available Cameras** pane. The **Add RTSP Camera** dialog box opens. See [Figure 60](#).

Figure 60. Adding an RTSP Camera

The 'Add RTSP Camera' dialog box is shown. It has a title bar with 'Add RTSP Camera' and a close button. The form contains the following fields:

- Connect to Bridge:** A dropdown menu with 'Vestral' selected.
- Camera Name:** A text input field containing 'Test Cam'.
- Login (optional):** Two text input fields, the first containing 'root' and the second containing 'pass'.
- RTSP:** A text input field containing '10.143.60.152' and a checkbox for 'Dual Stream' which is unchecked.
- RTSP Path:** A text input field containing '/onvif-media/medi/onvif-media/medi'.

Below the fields, there are 'Examples:' and a warning message:

Examples:
"snl/live/1/1/Ux/", "live.sdp", "h264"
Please be aware that 1 single stream RTSP camera takes up the same amount of bridge resources as 4 dual stream cameras. Because of this it is very easy to overload the bridge.

At the bottom, there are two buttons: 'Cancel' (orange) and 'Add Camera' (green).


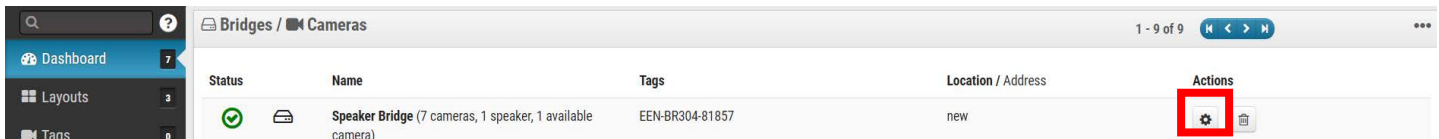
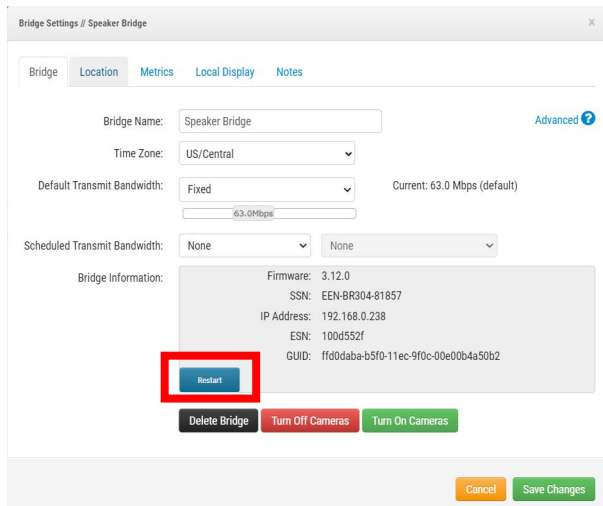
6. Under **Login**, enter the user name and password of the RTSP camera.
7. Enter the IP address and the RTSP URL of the camera. Check the **Dual Stream** box if the camera is dual stream. For single-stream cameras, leave the box unchecked.
Important: One single-stream RTSP camera uses the same amount of Bridge resources as four dual-stream cameras. Be sure that the Bridge is not overloaded.
8. Click **Add Camera**.
9. Confirm that the RTSP camera appears in the VMS.
Note: It can take up to an hour for a single-stream RTSP camera to appear in the VMS.
10. If the RTSP camera does not appear in the VMS after several minutes, you can try restarting the Bridge manually via the **On/Off** button or remotely by doing the following:
 - a) On the Dashboard, click the gear icon  next to the Bridge name to open the Bridge settings. See [Figure 61](#).

Figure 61. Opening the Bridge Settings



- b) The Bridge Settings dialog box opens. Click the “r” key on the keyboard to access the Restart button on the Bridge. See [Figure 62](#).

Figure 62. Accessing the Restart Button in Bridge Settings



- c) Click **Restart** to restart the Bridge.

Note: Contact your reseller or see [Getting Help](#) to contact support for more information.

Adjusting Master Motion Sensitivity

The Eagle Eye Cloud VMS, by default, bases full video recording on events through its integrated motion detection system. You can adjust the system in various ways and set up different regions. If you are not getting enough full video recording, or getting too much, adjust the motion settings to fine tune the system.

To adjust Master Motion Sensitivity, do the following:



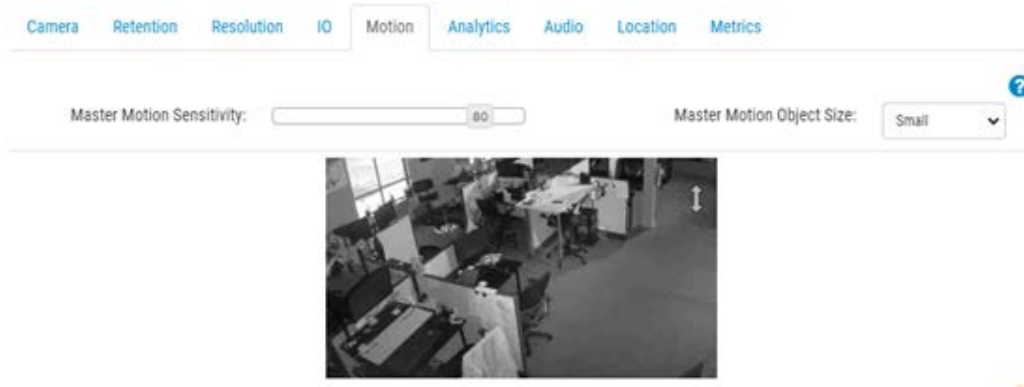
1. Go to the camera's **Camera Settings**, by doing either of the following:
 - a) Click the gear icon  next to the camera in the **Dashboard**.
 - b) Click the arrow icon  next to the camera image in **Layouts**.
2. Go to the **Motion** tab. See [Figure 63](#).

Figure 63. Adjusting Master Motion Sensitivity



Note: If you create a region on the image, the motion sensitivity of that region can override the Master Motion Sensitivity for that region.

Adjusting the Master Motion Object Size changes the percentage of the image the object in motion must take up before triggering a motion event and recording.

- Small objects are 1% of the image.
- Medium objects are 5% of the image.
- Large objects are 10% of the image.

Camera Direct Actions

ADDING CAMERA DIRECT CAMERAS TO THE VMS

With the Eagle Eye VMS Camera Direct, you can easily integrate your cameras with the Eagle Eye Cloud VMS without the need for a Bridge or CMVR. Connect your camera to the internet and add it to the Eagle Eye Cloud VMS using its MAC address. Once added, your cameras are immediately ready for viewing within the Cloud VMS.


PREREQUISITES

In order to set up your Eagle Eye Camera Direct, you need the following:

- An Eagle Eye Cloud VMS account.
- A camera model that is supported by Camera Direct.
Note: Make sure the camera is using factory default settings, and running the latest firmware for its model.
- The MAC address of the Camera Direct camera.

PROCEDURE

Before you begin: Be sure the camera is powered on and is connected to the internet.

1. Go to the Eagle Eye Cloud VMS and log in with your credentials.
2. Go to the **Dashboard**.
3. Click the ellipsis icon  and choose **Add Camera Direct** from the drop-down menu.

4. In the **Add Camera Direct** dialog, name the camera and enter its MAC address. See [Figure 64](#).

Figure 64. Adding Camera Direct



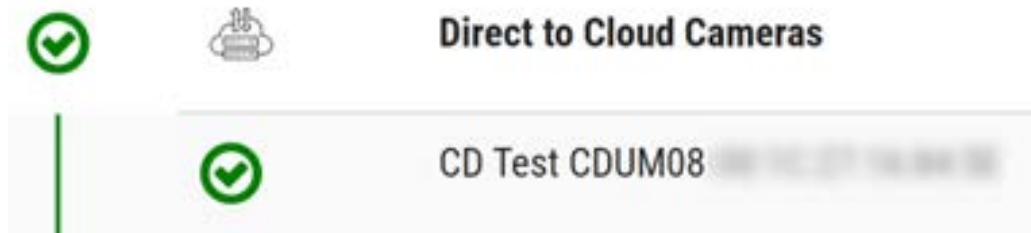
The image shows a dialog box titled "Add Camera Direct" with a close button (X) in the top right corner. Inside the dialog, there are two input fields. The first is labeled "Camera Name" and contains the text "Example". The second is labeled "MAC Address" and contains the text "0A-1B-2C-3D-4E-5F". At the bottom right of the dialog, there are two buttons: an orange "Cancel" button and a green "Add Camera" button.

5. Click **Add Camera** to save your settings.

Result: The Camera Direct Camera is added to your Eagle Eye Cloud VMS account.

Note: The camera is initially listed as offline on the dashboard, but after a maximum of two minutes a green check mark appears, indicating its online status as seen in [Figure 65](#).

Figure 65. Verifying Camera Direct Installation



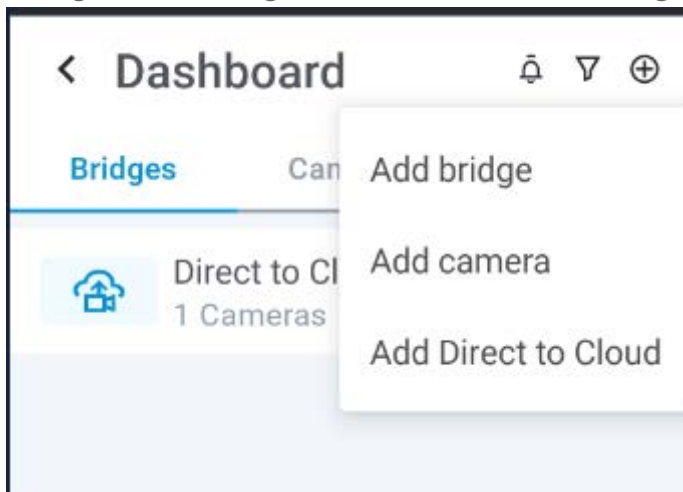
ADDING CAMERA DIRECT CAMERAS USING THE EAGLE EYE VIEWER

Before you begin, make sure the camera is powered on and connected to the internet.

To connect a Camera Direct camera, do the following.

1. Open the Eagle Eye Viewer mobile application and log in with your credentials.
2. Go to **More > Dashboard**.
3. Click the **+** icon and choose **Add Direct to Cloud** from the drop-down list. See [Figure 66](#).

Figure 66. Adding Camera Direct Cameras using the Eagle Eye Viewer




4. In the Add Direct to Cloud dialog box, name the camera and enter its MAC address. See [Figure 67](#).

Figure 67. Entering the Camera Name and MAC Address

< Add Direct to Cloud


INFORMATION

Camera name
Add camera name

MAC address
e.g. 0A:1B:2C:3D:4E:5F 

MAC address you can find on the camera

Add camera

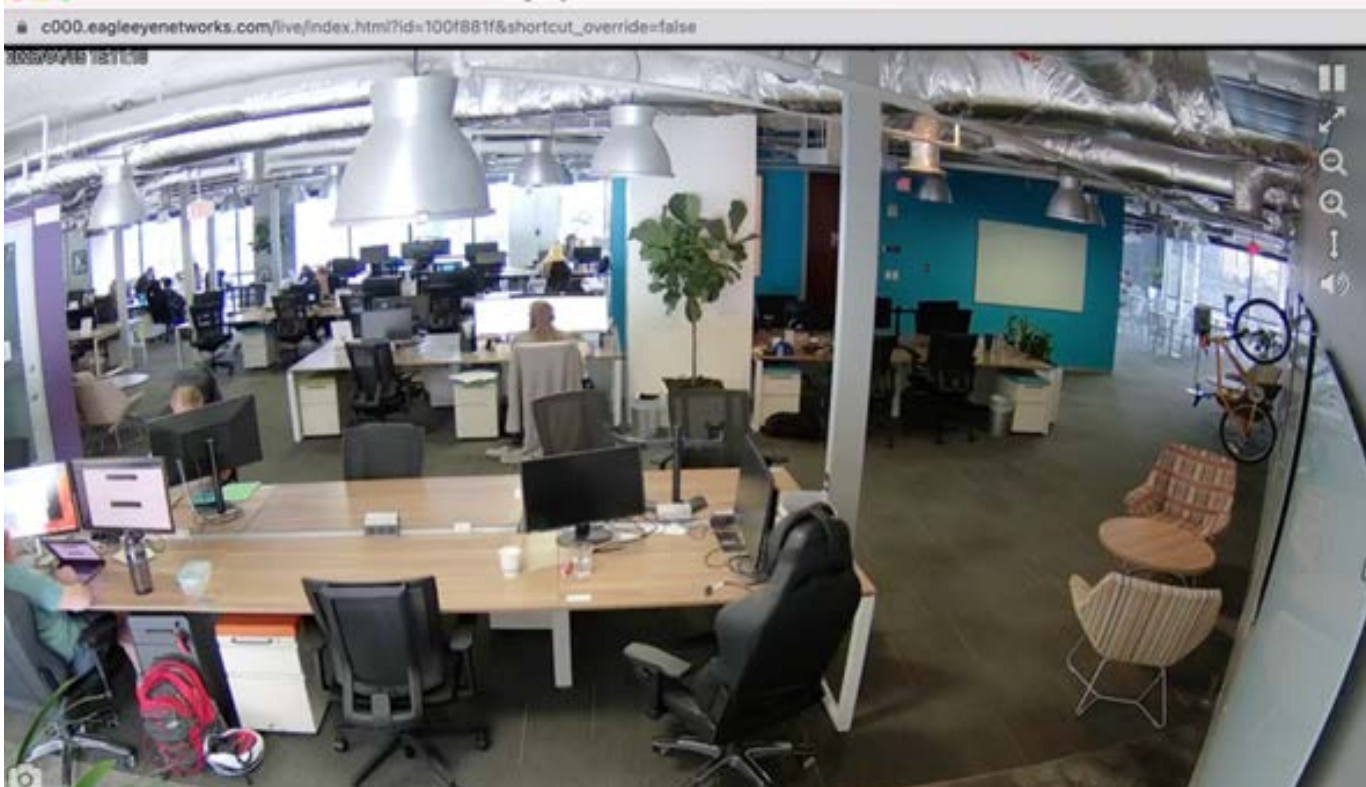
5. Alternatively, you can easily add the MAC address of the camera by scanning the QR code on the camera with your cell phone's camera. The QR code on the camera will look similar to this one: .
6. The camera is now added to the VMS. You can view live and recorded videos.

USING THE LIVE VIEW AND HISTORY BROWSER

Using the Live View and History Browser with Camera Direct cameras in the Eagle Eye Cloud VMS works the same as it does with other cameras.

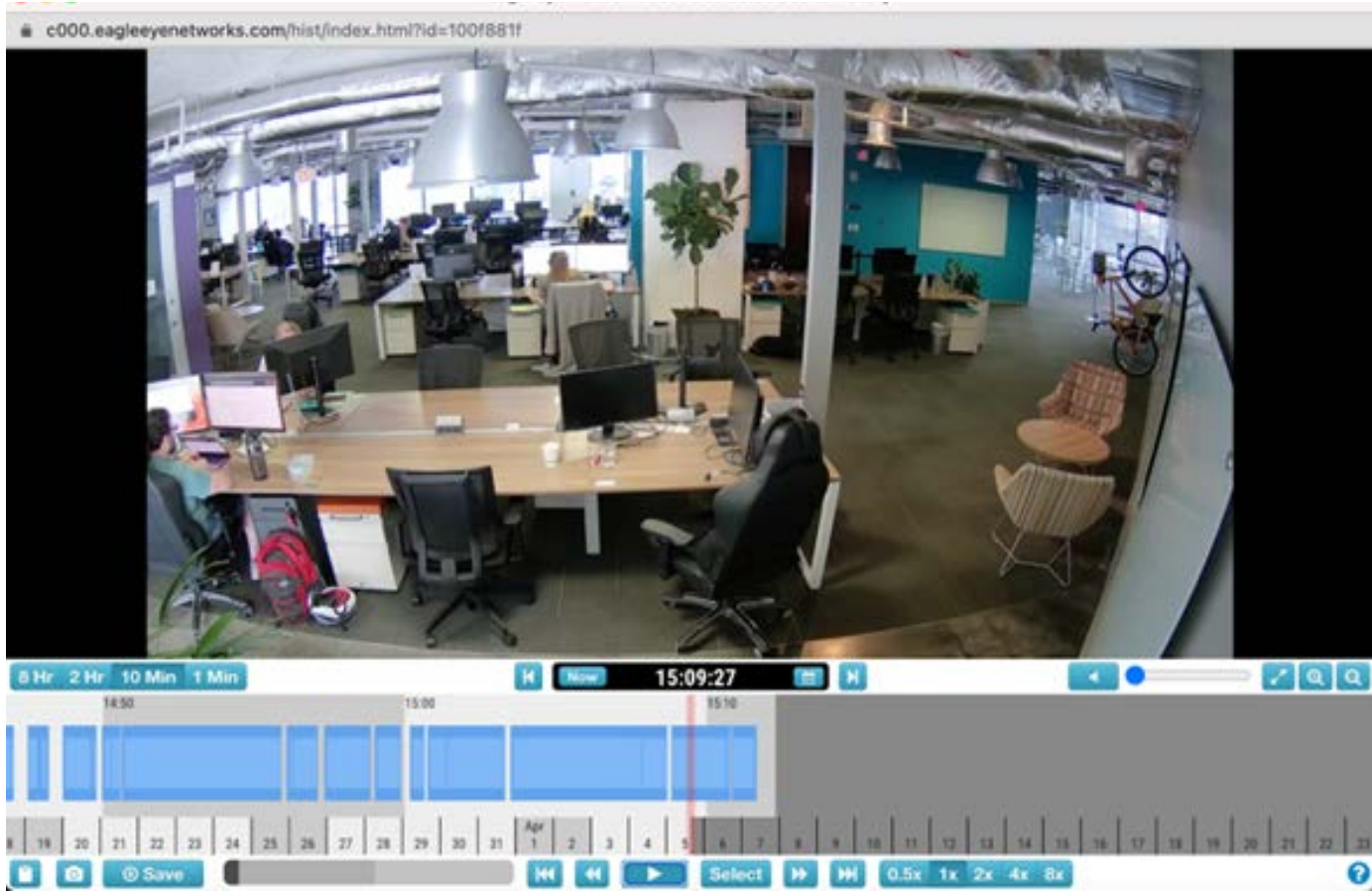
1. Go to Layouts and locate the Camera Direct camera of your choice.
2. Click the camera preview to open the Live View for the Camera Direct camera. See [Figure 68](#).

Figure 68. Opening the Live View for a Camera Direct Camera



3. Click the clock icon  to access the Camera Direct camera's History Browser. See [Figure 69](#).

Figure 69. Accessing the History Browser for a Camera Direct Camera



DELETING CAMERA DIRECT CAMERAS

See [Deleting Cameras](#).

Locations, Floor Plans, and Smart Layouts

Locations, Floor Plans, and Smart Layouts are advanced features of the VMS that are mostly used by Resellers or admins.

Locations

Important: This feature is only available in the Professional and Enterprise Editions.

Locations provide a way to manage and group cameras. Organizing cameras by location is helpful for accounts with a larger numbers of cameras dispersed across several locations.

CREATING NEW LOCATIONS

Locations are created through Smart Layouts. For more information on using Smart Layouts, see [Smart Layouts](#).

To create new locations in Smart Layouts, do the following:

1. Click **Add Location** to create a new location. In the **Location Details** tab of the **Add New Location** dialog do the following:
 - a) Provide a name for the location.
Note: We recommend following a naming convention that will apply to all locations in your environment.
 - b) Set the location's address.
Note: This step is required only if you are using Floor Plans. In that case, enter the following:
 - **Street address**
 - **City**
 - **State/province/region**
 - **Zip code**
 - **Country**
 - c) (Optional) Select if the location is the default for your account. Otherwise, leave it empty.
2. Go to the **Add Cameras** tab to assign cameras to this new location by selecting them from the list.

Tip: You can use the **Filter** field to search for cameras or check the **Hide Cameras** already in location box to hide cameras already assigned to this location. See [Figure 70](#).

Figure 70. Setting up Locations in Smart Layouts

Add New Location ✕

Location Details [Add Cameras](#) ?

Location Name

Street Address

City State / Province / Region

ZIP / Postal Code Country

Make this the default location for the account

[Scan for Locations](#) [Cancel](#) [Save](#)

USING LOCATIONS

To use locations in Smart Layouts, do the following:

1. Go to **Locations** for a dashboard view of locations.

Note: On the dashboard, each location provides useful insights on the status of that location's cameras.

Figure 71 shows that **Example Location** has 50 cameras online, three offline, one completely off, and six bridges online. **Table 1** defines of Smart Layout statuses.

Figure 71. Viewing Locations in Smart Layouts

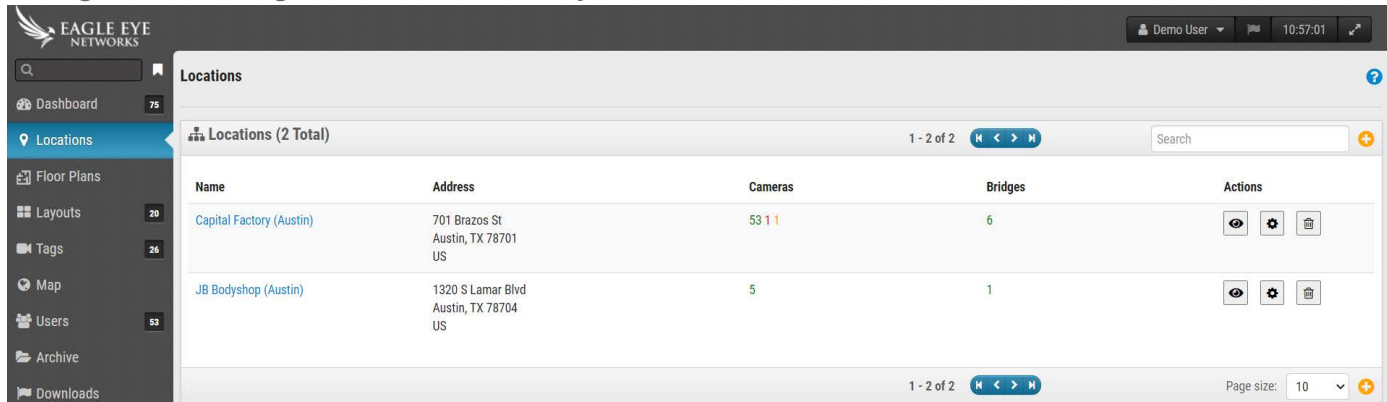




Table 1 describes Smart Layout statuses.

Table 1: Smart Layout Statuses

STATUS	DESCRIPTION
Green	The device is online
Red	The device is offline (due to camera offline, bridge offline, or internet offline)
Yellow	The device is off (not recording video)

2. To see a layout of the location's cameras, do one of the following:
 - a) Click the location's name.
 - b) Click the eye icon .
3. For location-related settings, click the gear icon .

 - a) Go to the **Location Details** tab to change the address or select whether the location is the default

location for the account.

- b) Go to the **Edit Cameras** tab to search for and select or deselect cameras you would like to add to or remove from the location.

Floor Plans

Floor Plans offer end users a way to monitor larger, more complex, sites or even multiple locations by presenting cameras in a visual manner on a floor plan within the Cloud VMS.


For more information about setting up Floor Plans in the VMS, see the [application notes](#) section of our website.

PREREQUISITES

Before you begin with configuring and using Floor Plans, confirm the following:

- The Professional or the Enterprise edition is enabled.
- Locations are set up in the Eagle Eye Cloud VMS, including the address fields.

Note: The address fields are not required by default when adding a new location.

- If Locations are not set up, see [Creating New Locations](#).
- Even if you previously set up Locations, perform the following check:
 - Go to **Locations**.
 - Click the gear icon  next a location to edit it.
 - Confirm that all the address fields are filled.

What to do next:


- If the address fields are properly filled, you can proceed to [Configuring Floor Plans](#)
- If the address fields are not properly filled, see [Creating New Locations](#).

CONFIGURING FLOOR PLANS

The following sections describe how to add new floor plans and map cameras onto floor plans.

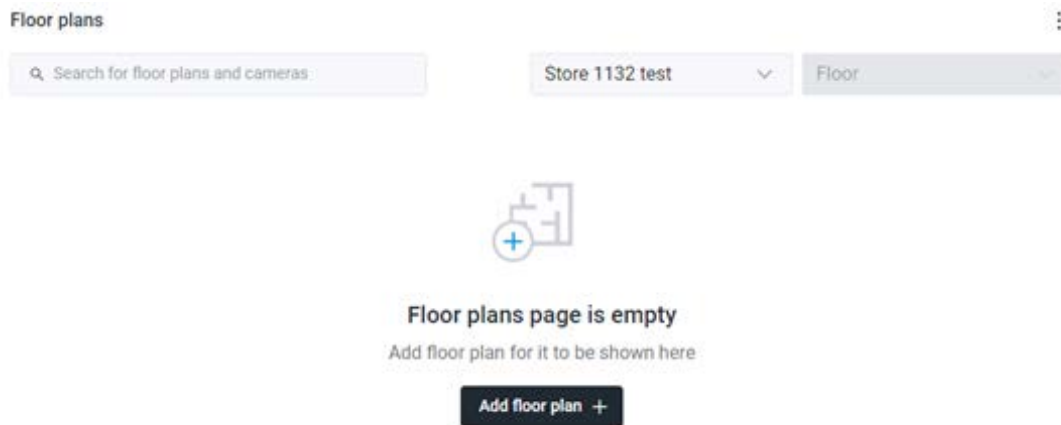
ADDING A FLOOR PLAN


Use the instructions below to upload a new floor plan. See [Figure 72](#).

1. Go to **Floor Plans**.
2. Add a new floor plan by doing either of the following:
 - Click the  button and choose **Add New Floor Plan**.
 - Click the **Add Floor Plan** button.

Note: The following screen only shows up if no floor plan has been added to the chosen location yet.

Figure 72. Uploading a Floor Plan



Tip: You can go forward in the **Add New Floor Plan** page by clicking **Next** and double-check your settings by clicking the blue check icon  above each completed step.

Important: If you made changes in previous steps, some of your more recent settings updates may be lost.

3. Select the location from the drop-down list.
4. Select the floor level from the drop-down list.

Note: You can choose a floor level between - 5 and 100.

5. Upload a floor plan either by dragging and dropping it on the screen, or by clicking **Browse Files**.

Note: The file format of the floor plan must be PNG or SVG. The file size limit is 10 MB. You can only select and upload one file at a time.

Tip: Using larger images with minimal white space around the floor plan helps to maximize available space for camera placement and improve the overall visual clarity of the image. If you are working with a large

number of cameras, upload images that allow for proper placement of cameras without overcrowding the floor plan.

- (Optional) Rename your floor to something more descriptive. See [Figure 73](#) for an example.

Figure 73. Naming a Floor Plan

Floor 8:

Note: You can change the name of the floor plan any time in Settings. See [Managing Floor Plans](#).

- Set the location on the map.
- Click **Confirm** to finalize your setup or **Cancel** to exit the page.

Important: If you exit without confirming changes, all your changes are lost.

Result: Your floor plan has been added to the location.

What to do next: Either continue by [Adding Cameras to a Floor Plan](#), or repeat the same procedure for the rest of your floor plans.

ADDING CAMERAS TO A FLOOR PLAN

To add cameras to a floor plan, do the following:

- Go to **Floor Plans**.
- Select the location from the first drop-down list, then do either of the following:
 - Select the floor plan from the second drop-down list. See [Figure 74](#).

Figure 74. Selecting a Floor Plan





- b) Search for the floor plan in the search box on the left. See [Figure 75](#).

Figure 75. Searching for a Floor Plan



Note: Only the floor plans on the selected location will show up in the search.

3. Click the  button and choose **Edit Floor Plan**.
4. Click the  button to add a new device.
5. Choose the camera to add from the **Add Devices** panel.

Note: Browse through the list of devices or search for the exact device you want to add. Once you have found the device you want to add, drag and drop it onto the floor plan.

6. Choose how to display the camera on the floor plan. See [Figure 76](#).



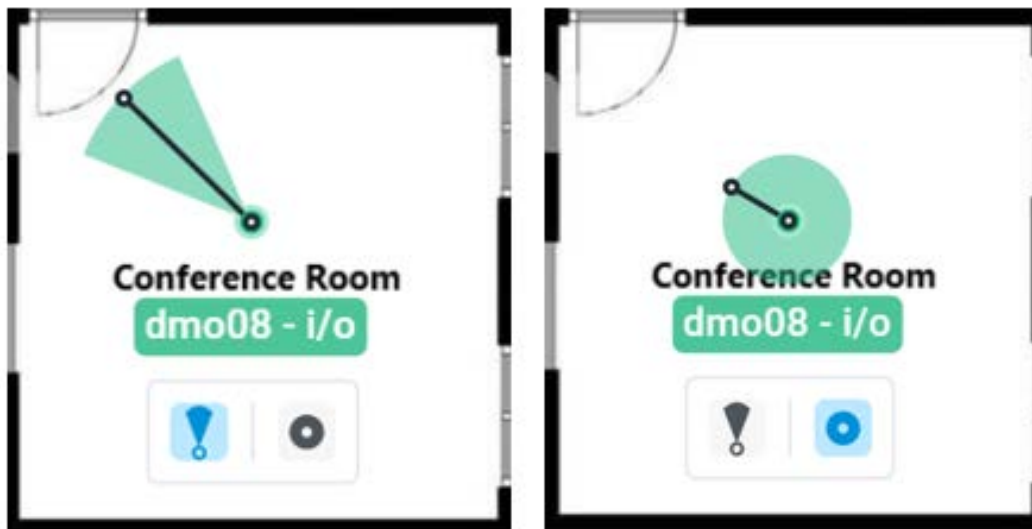
Tip: The camera icon  indicates a regular camera, the fisheye icon  indicates that it is a fisheye camera.

Figure 76. Locating Devices on a Floor Plan



7. (Optional) To move a device on the floor plan, click the device pin and drag it to the desired location. You can

also adjust the range the camera covers by dragging the dot until you achieve the desired size. See [Figure 77](#).

Figure 77. Moving Devices on a Floor Plan



8. Repeat this process until you have added all the devices to the floor plan, then click **Done**.

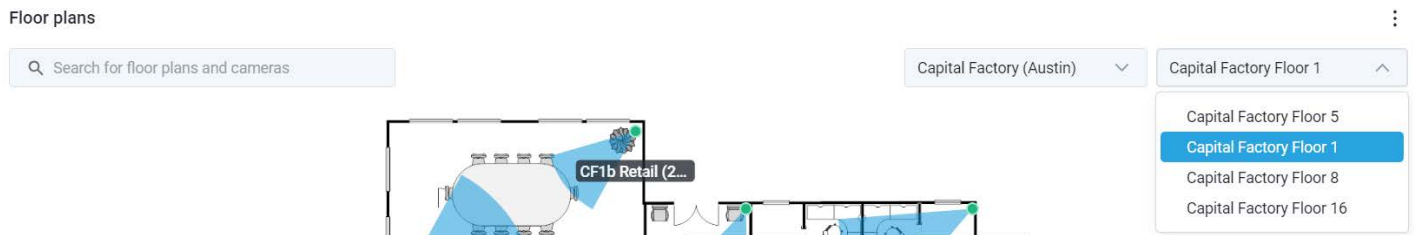
Tip: You can always come back later, add more cameras, remove cameras, or make changes. Read more in [Managing Floor Plans](#).

USING FLOOR PLANS

FINDING FLOOR PLANS

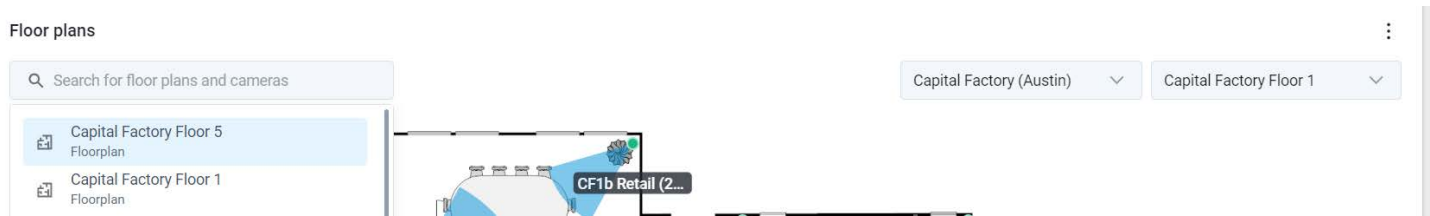
1. Go to **Floor Plans**.
2. Select the location from the first drop-down list, then do either of the following:
 - Select the floor plan from the first drop-down list. See [Figure 78](#).

Figure 78. Finding Floor Plans from Drop-down List



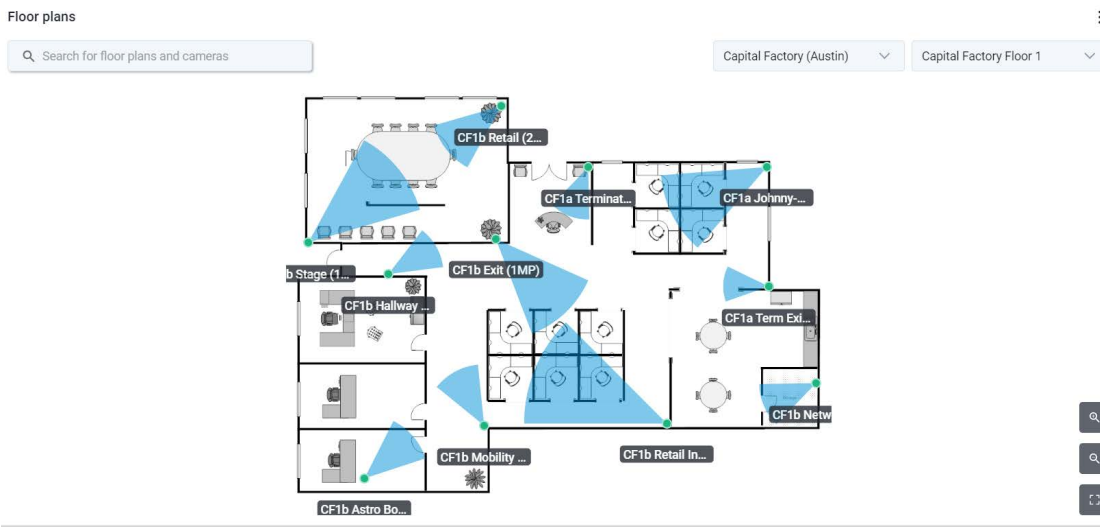
- Search for the floor plan in the search box on the left. See [Figure 79](#).

Figure 79. Finding Floor Plans using Search Box



Note: Only the floor plans of the selected location will appear in the search results. See [Figure 80](#).

Figure 80. Viewing Locations of all Cameras on a Floor Plan



[Figure 80](#) shows the cameras on a floor plan with their names and their coverage areas.

Tip: By using the icons on the bottom right corner, you can zoom in, zoom out, or view the floor plan in full screen mode.

FINDING CAMERAS ON A FLOOR PLAN

To find cameras on a floor plan, do the following:

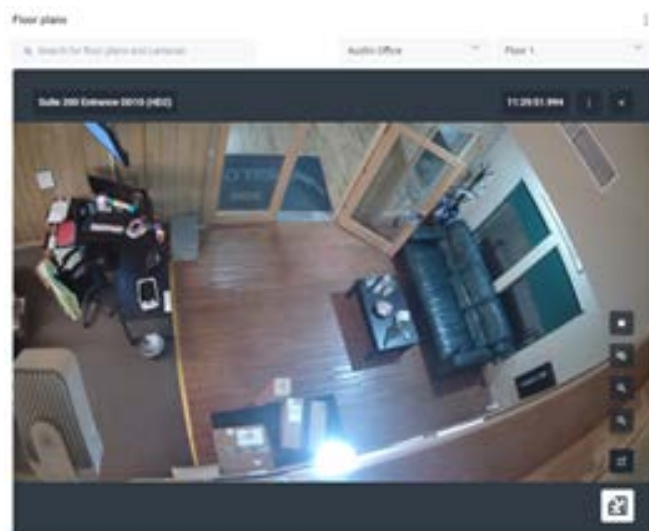
1. Hover over the camera marker on the floor plan for a preview. See [Figure 81](#).

Figure 81. Accessing Preview of Individual Cameras on a Floor Plan



2. Click the camera marker for a larger preview. See [Figure 82](#).

Figure 82. Previewing Feed of Individual Camera




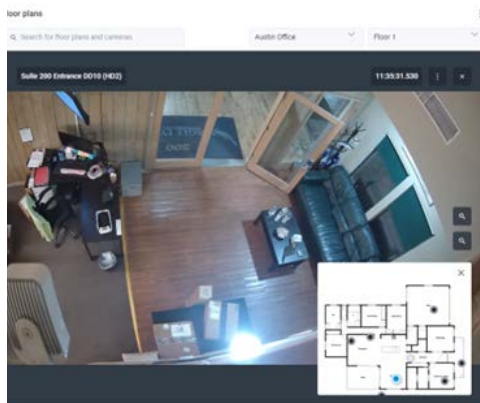
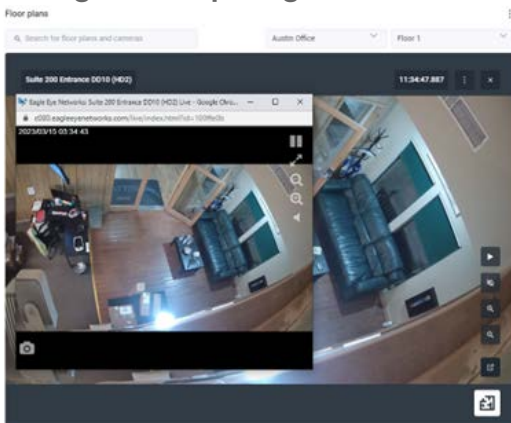
3. Click the  button to see the camera location on the floor plan. See [Figure 83](#).

Figure 83. Finding Location of Live Camera Feed on a Floor Plan








4. Click the  button to open the Live View of the camera. See [Figure 84](#).

Figure 84. Opening Live View of an Individual Camera on a Floor Plan



The rest of the icons allow for the following:

-  Exit this view.
-  Stop the livestream.
-   Zoom in and out.
-  Open Live View.


5. To access the camera's history, click the  button and choose **History Browser**. See [Figure 85](#).


Figure 85. Accessing the History Browser of an Individual Camera on a Floor Plan



Tip: While on the **Floor Plans** page, you can easily switch between cameras, floor plans, and locations any time, even while reviewing video in Live or History view.


MANAGING FLOOR PLANS

CHANGING THE NAME OF A FLOOR PLAN

1. Click the  button and choose **Settings**.
2. Change the name of the floor plan.
3. Click **Save Changes**.


SHOWING OR HIDING CAMERA NAMES ON A FLOOR PLAN

You have the option to show or hide camera names on floor plans.


1. Click the  button and choose **Settings**.
2. Toggle the **Show Camera Names on Floor Plan** switch on or off.
Important: This setting affects all your cameras, floor plans and locations.
3. Click **Save Changes**.

REMOVING CAMERAS FROM A FLOOR PLAN

1. Click the  button and choose **Edit Floor Plan**.


2. Select the camera, then click the  button to remove it from a floor plan.
3. Click **Done** to finalize the changes.

DELETING A FLOOR PLAN

Click the  button and choose **Delete Floor Plan**.

UPDATING A FLOOR PLAN

If there is any change in a floor plan, you must delete and add it again.

1. Click the  button and choose **Delete Floor Plan**.
2. Add the new floor plan as described in [Adding a Floor plan](#).
3. Add the cameras to the floor plan again as described in [Adding Cameras to a Floor Plan](#)

Smart Layouts

This feature is only available in the Enterprise or Professional versions of the Eagle Eye Network Cloud VMS. Smart layouts introduce AI to the popular Layouts feature. This feature is especially handy during low traffic or off hours, when getting alerted about motion events is a higher priority. Smart layouts are capable of detecting people, vehicles, or both, and automatically highlight the camera thumbnails with new motion events on the layout. It also provides a small preview of the motion event. See [Figure 86](#) to view the Smart Layouts preview.

Tip: Click the preview to be taken to the History Browser at the time of the event.

Figure 86. Viewing Smart Layouts Preview



Note: Smart layouts are only recommended for low traffic times. Using it during a busier time might lead to the highlights shifting around too often.

ENABLING SMART LAYOUTS

To enable Smart Layouts, do the following:

1. Go to **Layouts**.
2. Click the drop-down menu and go to **Smart Layouts**.
3. From the drop-down list, select whether you want to be alerted for people, vehicles, or motion.

Note: This setting applies to all layouts.

Motion Detection

This section contains information for setting up Motion Detection on the Eagle Eye Cloud VMS.

Setting up Motion Detection

To set up motion detection, do the following:



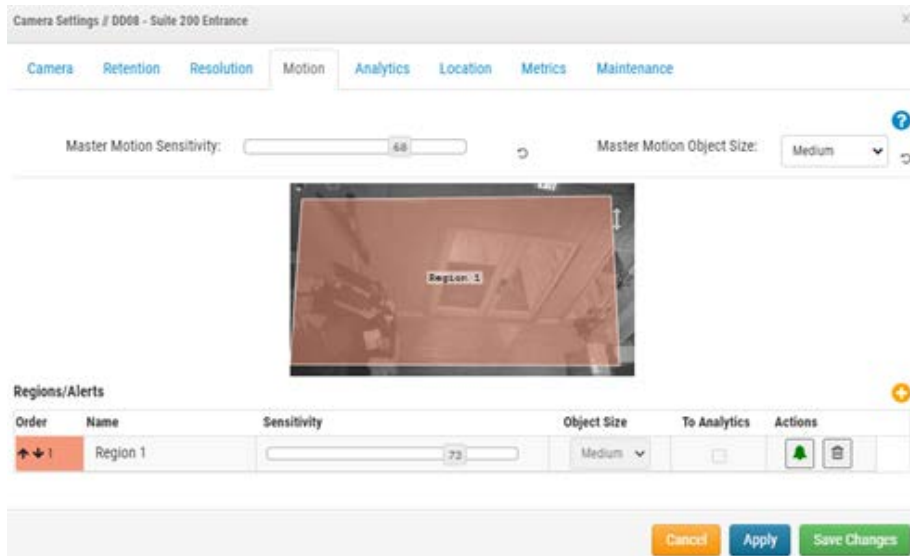
1. Go to a **Camera Settings** by doing either of the following:
 - Click the gear icon  next to the camera in the **Dashboard**.
 - Click the arrow icon  next to the camera image in **Layouts**.
2. Go to the **Motion** tab. See [Figure 87](#).

Figure 87. Detecting Motion



The available motion settings are:

- **Master Motion Sensitivity:** The default level of motion sensitivity applied to the entire image. Regions that have been manually added to the image have their own sensitivity setting that will override the Master Motion Sensitivity for that region. The slider goes from 0–100 and can adjust the right amount of motion detection for the camera. For example, an outdoor camera might detect leaves moving in the wind. For this

scenario, the master motion sensitivity should be lowered so each leaf movement is not registered as an event that requires full video recording.

- **Master Motion Object Size:** The motion detection system looks for objects moving through the image. The size selection helps filter out unimportant motion. Regions that are manually created can have their own Motion Object Size value that overrides the Master value. The options for this setting are:
 - **Small** - Objects that are around 1% of the total image size.
 - **Medium** - Objects that are around 5% of the total image size.
 - **Large** - Objects that are around 10% of the total image size.

SETTING UP REGIONS

To create a region, do the following:

1. Press the plus  button on the right.

Note: A new region appears as a blue square with four vertices. The vertices are represented by squares. See [Figure 88](#).

Figure 88. Creating a Region



2. Move any of the vertices to adjust the region to the desired shape.



Tip: To create complex-shaped regions, click a circle between vertices to create a new adjustable vertex. To delete vertices, double-click them.

Note: A region must have a minimum of four vertices.

3. Name the area to complete the setup


The available regions settings are:

- **Region Name:** Name a region that will be easy to identify when receiving alerts.

- **Sensitivity:** Set the sensitivity for each region.
Note: This overrides the Master Sensitivity Setting.
- **Disable Motion** – Regions that are excluded from motion detection can be created as well, to block out trees or extraneous areas from causing unnecessary recording. To do this, create the region and drag the motion sensitivity slider to zero.
- **Object Size:** Set an object size for each region. This will override the master setting.
- **To Analytics:** Click this box to apply the motion mask (an area with zero motion sensitivity) to the applied analytics for the camera. You can use this to mask insignificant motion (televisions, mirrors, etc.) from your analytics as well as motion alerts. This option is only displayed when Analytics are enabled for the camera. It is also grayed out (not clickable) unless the Sensitivity is set to 0 (zero).
- **Actions:** Add or configure alerts (bell icon ) for the region or delete them entirely (trash icon ). See [Setting up Alerts for Regions](#).
Note: Each region can generate its own alerts. A region can be used to control when a camera records full video as well as to generate an alert based on motion.

SETTING UP ALERTS FOR REGIONS

After adding a new region, you can set up an alert for that region. To set up an alert for a specific region:


1. Click the bell icon  next to the chosen region.
2. In the menu that appears, adjust the settings described below according to your needs.


Available region settings for alerts are:


- **Alert Enable:** Select the check box to enable the alert. If the box is unchecked, the region will not generate any alerts.
- **When:** Specify a period when an alert is active. For example, set up motion alerts only when the office is closed or at night.
- **Re-Arm:** Set the amount of time to wait before the alert can be triggered again. Immediate will alert each time there is motion, which can produce an unlimited number of alerts. Adjust this setting to wait for a specific time in minutes or until the alert is not triggered for a specific amount of time. For example, setting an alert to Re-Arm After quiet for 5 minutes will generate an alert at the first sign of motion, wait until the region sees no motion for five minutes, and then alert on the next motion
- **Max Per Hour:** Set the maximum number of alerts allowed within an hour. For example, if the Re-Arm is set to immediate, and the Max Per Hour is set to 10, then once 10 alerts are sent, no further alerts will occur for an hour (from the first alert).

- **Alert Who:** Set the users of the system who should receive the alert for this region.
- **Alert Mode:** Use this feature to specify when individual alerts are active, choose the modes this alert will apply to.
- **Alert Level:** Use this feature to dictate who gets alerted for individual alerts and to specify whether the alert is High, Low, or Both.

- **Enable AI Filtering:** Check this box to enable alerts that vehicles, people or both have been detected. Choose to be notified of AI-filtered alerts in the following methods:

Immix Alert: Click to be notified of AI-filtered alerts through the Immix monitoring system. Click the trash icon  to stop receiving notifications through the Immix monitoring system.

Webhook: Click to set up notifications of smart alerts on various web platforms. Select any or all of the notification options in the section. You can also select if you want push notifications. Click the trash icon  to stop receiving notifications through any of the web applications.





Notification: Click to set up email notifications of AI-filtered alerts. You can also select if you want push notifications. Click the trash icon  to stop receiving notifications through email.


Note: Any combination of the three alert actions may be selected.

Figure 89 shows an example setup for an alert.

Figure 89. Setting up an Alert

Regions/Alerts +

Order	Name	Sensitivity	Object Size	Actions
↑ ↓ 1	Region 1	<input type="text" value="32"/>	Small	 
<p>Enable Alerts: <input checked="" type="checkbox"/></p> <p>When: <input type="text" value="24 hours"/></p> <p>Re-arm: <input type="text" value="After"/> <input type="text" value="15"/> minutes</p> <p>Max Per Hour: <input type="text"/></p> <p>Who: <input type="text" value="All"/></p> <p>Mode: <input type="text" value="All"/></p> <p>Level: <input type="text" value="High"/></p> <p>Enable AI Filtering: <input checked="" type="checkbox"/></p> <p>Detect: <input checked="" type="checkbox"/> Person <input checked="" type="checkbox"/> Vehicle</p>				
↑ ↓ 2	Region 2	<input type="text" value="80"/>	Small	 

Result: If the alert is successfully set up, the bell sign  turns green, and you receive alerts.

ACCESSING MOTION ACTIVITY



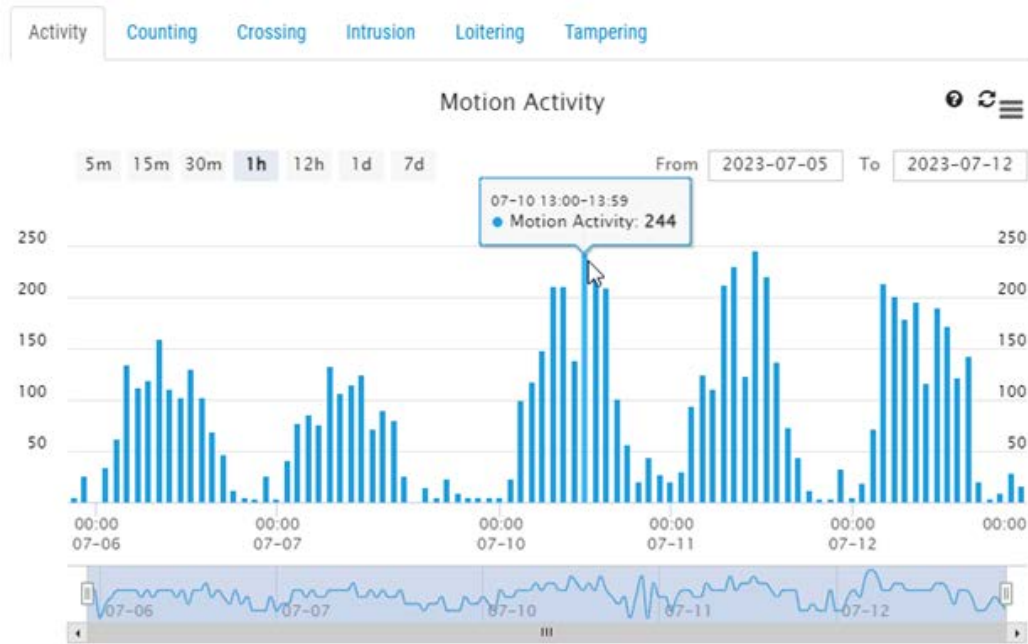
1. To access the Motion Activity graphs of a camera, do either of the following:
 - a) Go to your chosen camera on the Dashboard and click the analytics graph  button.
 - b) Go to your chosen camera in Layouts, click the arrow icon  and choose **Analytics** from the drop-down list. See [Figure 90](#).

Figure 90. Accessing Motion Activity



Note: Under the **Activity** tab, you can access the triggered motion activity events on a graph. Here you can adjust the time interval, explore the displayed data, refresh the graph, and export it. Hover over a peak on the graph for the number of events in the given time frame. Click to access **History Browser** at the selected time. See [Figure 91](#).

Figure 91. Viewing Motion Activity History



Analytics

Analytics are advanced features of the VMS. They are mostly used by Resellers and admins.

There are several types of analytics for your cameras, including:

The analytics run on the bridge/CMVR, so you can enable them on any camera added to the VMS. Analytics may be enabled separately and are billable per camera.

Important: Vehicle surveillance currently requires a specific supported camera.

Note: Analytics use considerable resources on the bridge. Limit the amount of analytics enabled on each bridge to the number stated in that bridge's [data sheet](#).

Tip: For the most accurate analytics, use cameras for analytics that are capable of 16 frames per second (fps) for the MJPEG preview video stream used for analytics. 12 fps can work, but 8 fps does not give adequate results. Make sure that in **Camera Settings** → **Resolution** → **Preview Video**, the **Quality** field is set to **Analytics**.

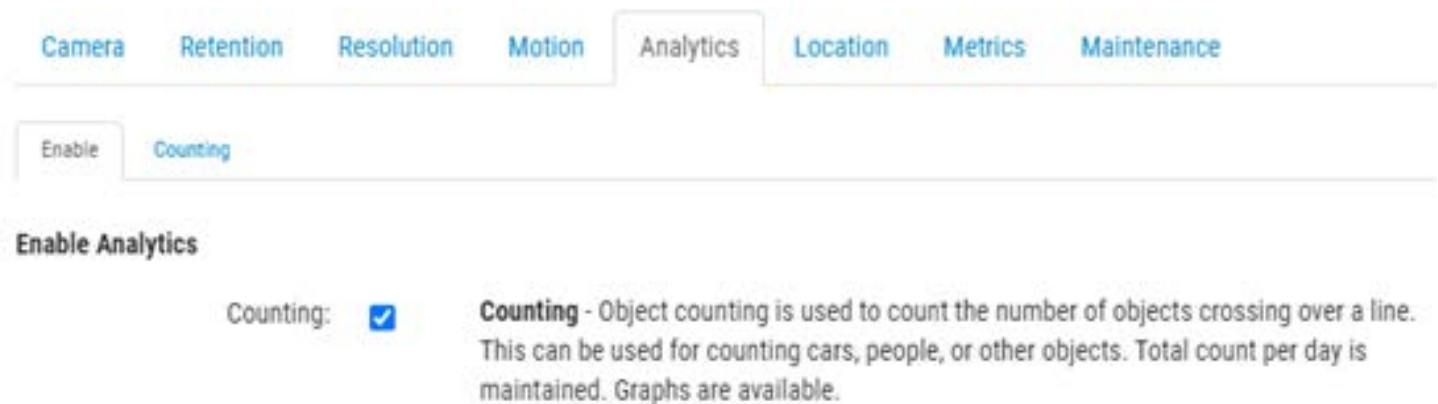
Enabling Analytics for a Camera

Important: Each analytic is separately enabled and billed per analytic for each camera. To enable analytics for a camera, do the following:

1. Open the **Camera Settings** of the specific camera.
2. Go to the **Analytics** tab.

Result: A new tab appears for each analytic when enabling them, as shown in [Figure 92](#).

Figure 92. Enabling Analytics



Setting up Analytics

Use the instructions in this section to set up analytics in the Cloud VMS.

Note: You must create a line or region for an analytic to be enabled.

COUNTING

Counting allows you to define a line in the preview stream to count cars, people, or other objects that cross the line in a specific direction.

Counting supports one line and one direction per camera. You can check the total count of persons or vehicles moving in the given direction, the opposite direction, and their difference. Graphs of daily details are also available.

The daily count resets at 2:00 a.m. in the configured time zone.

Important: It is not possible to generate alerts on counted objects. To learn more about generating alerts when an object crosses a line, see [Line Crossing](#).

SETTING UP A NEW LINE

To set up counting, do the following:


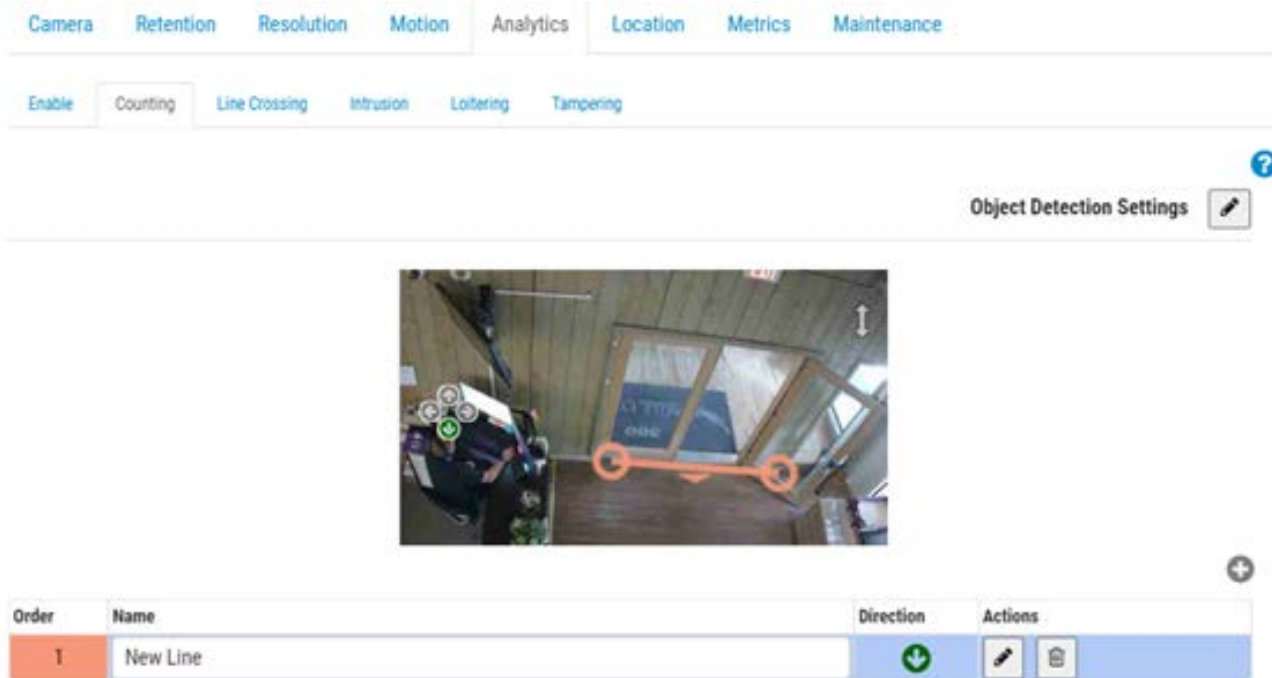



1. Add a counting line by clicking the gray plus icon .
2. Click and drag the circles at either endpoint of the line to adjust its length and orientation.
3. Use the directional arrow to define which direction the objects must cross the line to be counted. See [Figure 93](#).

Figure 93. Analytics: Configuring Counting



Order	Name	Direction	Actions
1	New Line		 



4. Name the line, then save the changes.

EDITING AND DELETING A LINE

See [Table 2](#) for descriptions of the elements used for editing and deleting a line.

Note: Only one line is allowed per camera.

Table 2: Editing a Deleting a Line

ELEMENT	DESCRIPTION
	Edit an existing line. Allows you to change the name of the line, its primary crossing direction, and the line positioning.
	Delete the line.

CAMERA AND LINE POSITIONING

For the highest accuracy, use a dedicated camera for the counting and line crossing analytics, mounted with a top-down view in which persons or objects remain the same size as they travel through the image. To be counted, the object or person must be tracked prior to crossing the line, and at least 50% of it must cross the drawn line. Lines must be placed in such a way to allow the object to cross and should not be placed near the edge of the image if parallel to the edge.

Tip: Place the line as close to the center of the image as possible. This may require the repositioning of the camera.

LINE CROSSING OBJECT COUNT ON VIDEOS

The object count is displayed on the top right corner of a camera's preview and full-resolution video streams. This includes **Layouts**, **History Browser**, and **Live Video**. In **Layouts** and **Live Video**, the current count is displayed, while the **History Browser** shows the count at the time of the recorded video.

The following image shows an example for counts displayed in the **History Browser** view. You can see the counts in the upper right corner for seven objects crossing the line in the defined direction, five in the opposite direction, and the difference between the two in [Figure 94](#).

Figure 94. Analytics: Viewing Line Crossing Object Count



LINE CROSSING

Line Crossing allows you to define a line in the video output to generate alerts if that line is crossed. A running count of objects crossing both directions across the line is also graphed, but the count is not displayed in the preview or history browser. Read more in [Accessing Analytics](#).

Line crossing analytics only support one line and one direction per camera. The daily count resets at 2:00 a.m. in the configured time zone.

SETTING UP A NEW LINE

To set up line crossing, do the following:


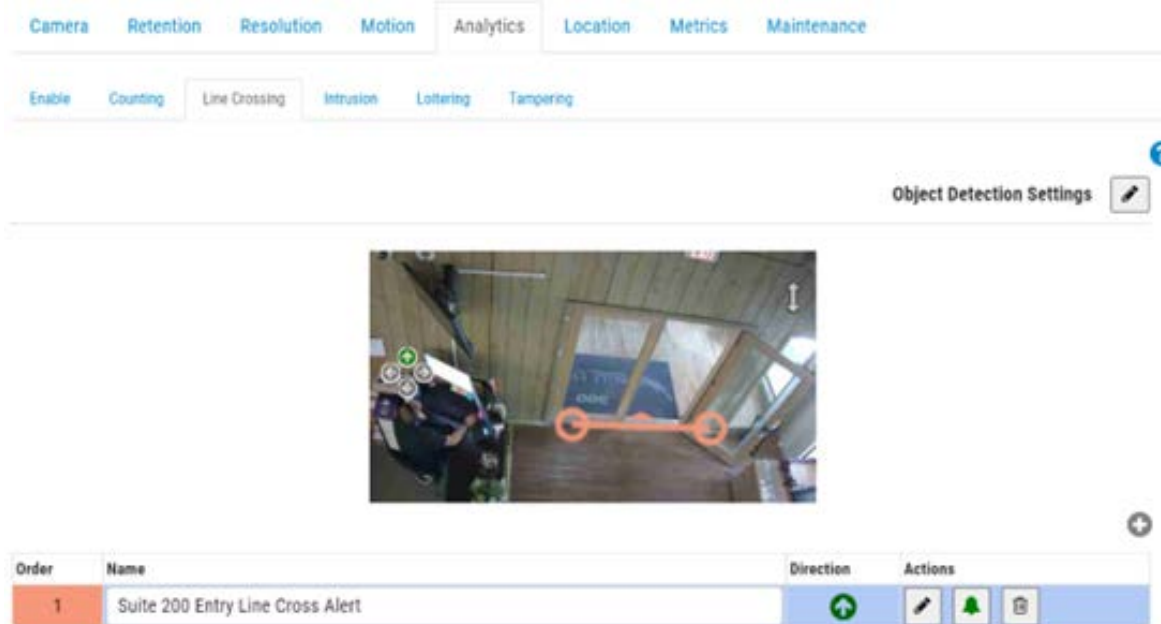




1. Add a crossing line by clicking the plus icon .
2. Click and drag the circles at either endpoint of the line to adjust its length and orientation.
3. Use the directional arrows to the left of the view to dictate the direction the objects cross the line.
4. Name the line, then save the changes. See [Figure 95](#).

Figure 95. Analytics: Setting up Line Crossing



Order	Name	Direction	Actions
1	Suite 200 Entry Line Cross Alert		  




What to do next: To learn more about setting up an alert associated with this line, go to [Setting up Alerts](#).

EDITING AND DELETING A LINE

See [Table 3](#) for descriptions of the elements used for editing and deleting a line.

Note: Only one line is allowed per camera.

Table 3: Editing a Deleting a Line: Line Crossing

ELEMENT	DESCRIPTION
	Edit an existing line. Allows you to change the name of the line, its primary crossing direction, and the line positioning.
	Edit the alert information. To learn more about setting up an alert associated with this line, go to Alerts and Notifications . If an alert is set, this icon turns green.
	Delete the line.

CAMERA AND LINE POSITIONING

For the highest accuracy, use a dedicated camera for the counting and line crossing analytics, mounted with a top-down view in which persons/objects remain the same size as they travel through the image. To be counted, the object/person must be tracked prior to crossing the line, and at least 50% of it must cross the drawn line. Lines must be placed in such a way to allow the object to cross and should not be placed near the edge of the image if parallel to the edge.

Tip: Place the line as close to the center of the image as possible. This may require the repositioning of the camera.

INTRUSION DETECTION

Intrusion detection allows you to define a region in the video output to generate alerts if that region is entered. There is no limit for the number of areas. You can check the total intrusion counts per day in the analytic graphs. Read more about it in [Accessing Analytics](#). The daily count resets at 2:00 a.m. in the configured time zone.

SETTING UP A NEW REGION

To set up Intrusion detection, do the following:

1. Add an area by clicking the plus  button.

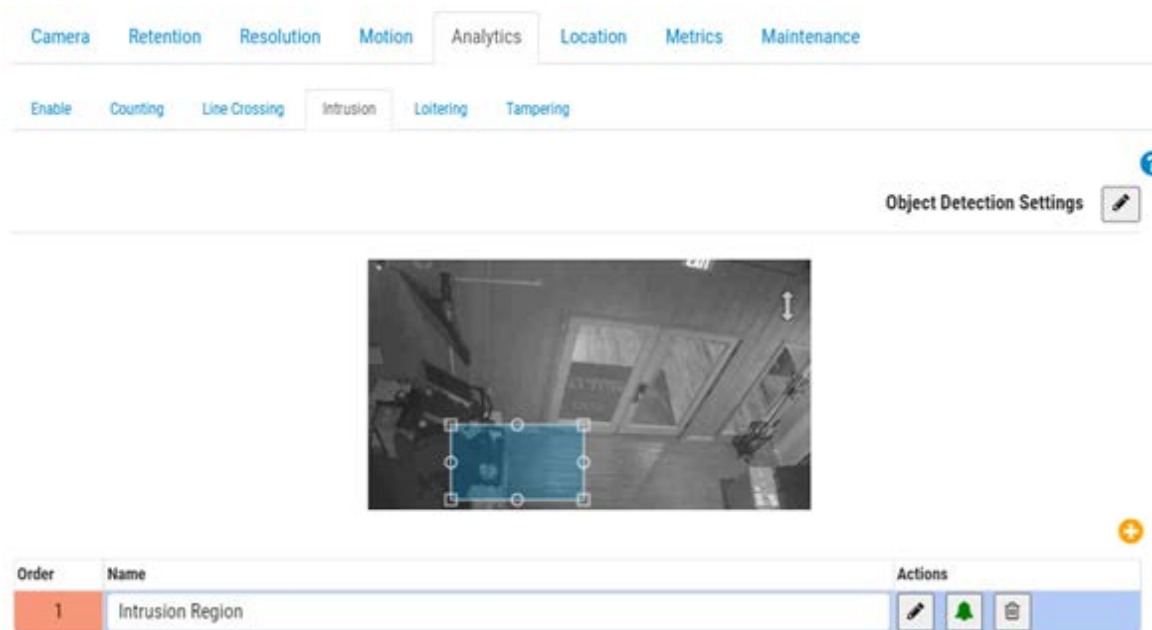
Note: A square-shaped detection area is added to the video preview.

2. Click and drag the square at its vertices to adjust the shape and size of the detection area.

Tip: You can create various complex shapes you need by clicking the circles at the midpoints of each line to add a new vertex. You can also click and drag within the area to move it.

3. Name the area to complete the setup, then save the changes. See [Figure 96](#).

Figure 96. Analytics: Setting up a New Area for Intrusion Detection






4. (Optional) Add multiple intrusion areas to the camera by repeating the steps above.

What to do next: To learn more about setting up an alert associated with a region, go to [Alerts and Notifications](#).

EDITING AND DELETING A REGION

See [Table 4](#) for descriptions of the elements used for editing and deleting a region.

Table 4: Editing a Deleting a Region

ELEMENT	DESCRIPTION
	Edit an existing region. Allows you to change the name of the region, the positioning of a region, and the size and shape of the area.
	Edit the alert information. To learn more about setting up an alert associated with this region, go to Alerts and Notifications . If an alert is set, this icon turns green.
	Delete the region.


LOITERING

Loitering allows you to define a region in the video output to generate alerts if a person or object enters and remains in that area for a given amount of time. You can check the total loitering counts per day in the analytic graphs. To learn how to access them, see [Accessing Analytics](#).

The daily count for the graphs resets at 2:00 a.m. in the configured time zone.

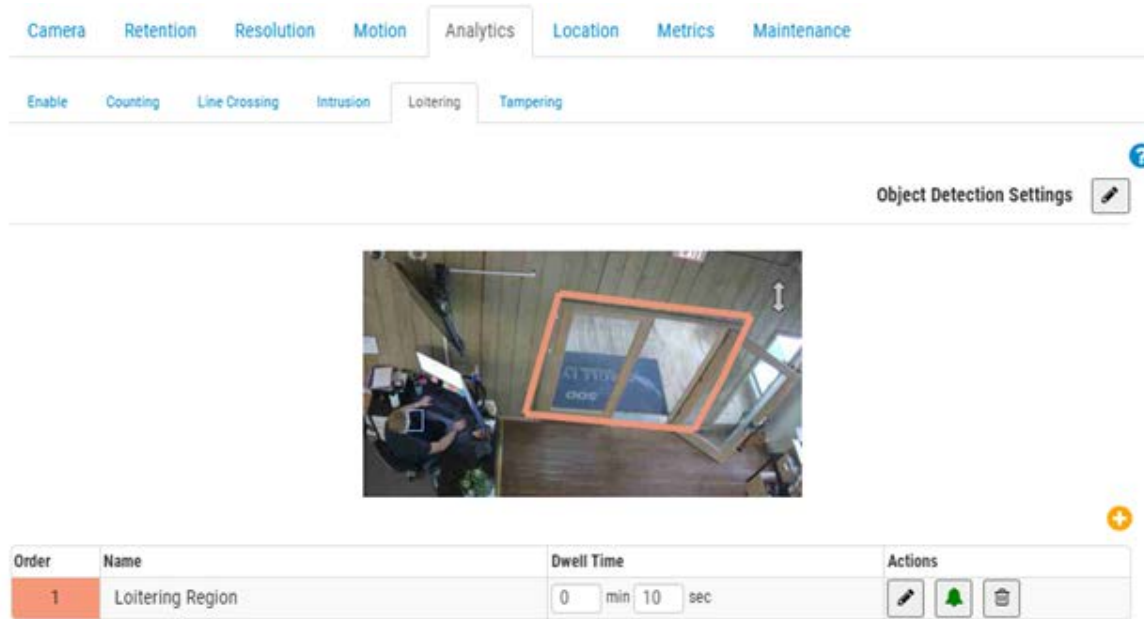
SETTING UP A NEW REGION

To add a new region, do the following:

1. Add a region by clicking the plus  button.
Note: A square-shaped detection area is added to the video preview.
2. Click and drag the square at its vertices to adjust the shape and size of the detection area.
Tip: You can create various complex shapes you need by clicking the circles at the midpoints of each line to add a new vertex. You can also click and drag within the area to move it.
3. Set the **Dwell Time** to define how long a person/object needs to remain in the area to be considered to loiter.
4. Name the area to complete the setup, then save the changes.

5. (Optional) Add multiple loitering areas to the camera by repeating the above steps. See [Figure 97](#).

Figure 97. Analytics: Setting Up Loitering Detection



What to do next: To learn more about setting up an alert associated with analytics, go to [Alerts and Notifications](#).

EDITING AND DELETING A REGION

See [Table 5](#) for descriptions of the elements used for editing and deleting a region.

Table 5: Editing a Deleting a Region




ELEMENT	DESCRIPTION
	Edit an existing region. Allows you to change the name of the region, the positioning of a region, and the size and shape of the area.
	Edit the alert information. To learn more about setting up an alert associated with this region, go to Alerts and Notifications . If an alert is set, this icon turns green.

Table 5: Editing a Deleting a Region (Continued)

ELEMENT	DESCRIPTION
	Delete the region.

TAMPERING

Tampering generates alerts if the camera's view is blocked or if the monitored area drastically changes (i.e., someone swivels the camera to point elsewhere). You can check the total tampering counts per day in the analytic graphs. To learn how to access them, see [Accessing Analytics](#).

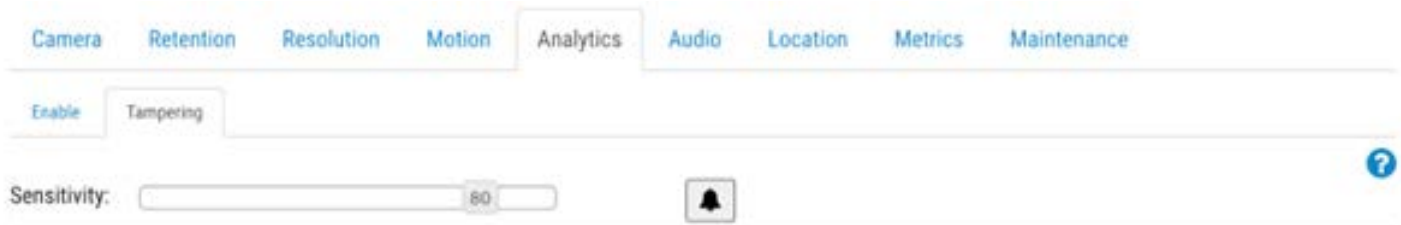
The daily count for the graphs resets at 2:00 a.m. in the configured time zone.

SETTING UP TAMPERING

Set the sensitivity for the camera. See [Figure 98](#).

Note: We recommend using the default value when first enabling tampering. After a few days, you can make an assessment on the number of alerts generated and adjust the sensitivity from there. If you are not getting enough alerts, move up the sensitivity. If you are getting false positive alerts, lower it.

Figure 98. Analytics: Setting Tampering Sensitivity



What to do next: To learn more about setting up an alert associated with tampering, go to [Alerts and Notifications](#).

OBJECT DETECTION SETTINGS


Click the edit icon  to fine tune what gets marked as an object. See [Figure 99](#).

Figure 99. Analytics: Setting up Object Detection



Note: These settings apply across all analytics except Tampering.

Available object detection settings are:

- **Sensitivity:** Adjusts the sensitivity of the analytics when using motion to mark an object.
Tip: If you have a larger number of false positives, try lowering the sensitivity. If too many objects or people are not counted, increase the sensitivity.
- **Min Size:** Defines the minimum size of an object to be counted by adjusting the box that appears with the help of its vertices.
Tip: If the default value is not working for you, we recommend setting this value to be half the height and width of the average object size you expect to count.
- **Max Size:** Defines the maximum size of an object to be counted by adjusting the box that appears with the help of its vertices.
Tip: If the default value is not working for you, we recommend setting this value to approximately 130% of the object's height and width.

ACCESSING ANALYTICS

Analytics provide counts and graphs for detailed analysis.



1. To access the analytics graphs of a camera, do either of the following:
 - Go to your chosen camera on the **Dashboard** and click the analytics graph  button.
 - Go to your chosen camera in **Layouts**, click the arrow icon  and choose **Analytics** from the drop-down list. See [Figure 100](#).

Figure 100. Accessing Analytics



2. Choose the relevant tab to access any of the following:
 - Object Counting
 - Object Crossing
 - Intrusion Count
 - Loiter Count
 - Tamper Count

Figure 101 shows the analytics for objects crossing a line in the given direction, during the given date and times, for a one-hour duration.

Figure 101. Analytics: Viewing Line Crossing Data

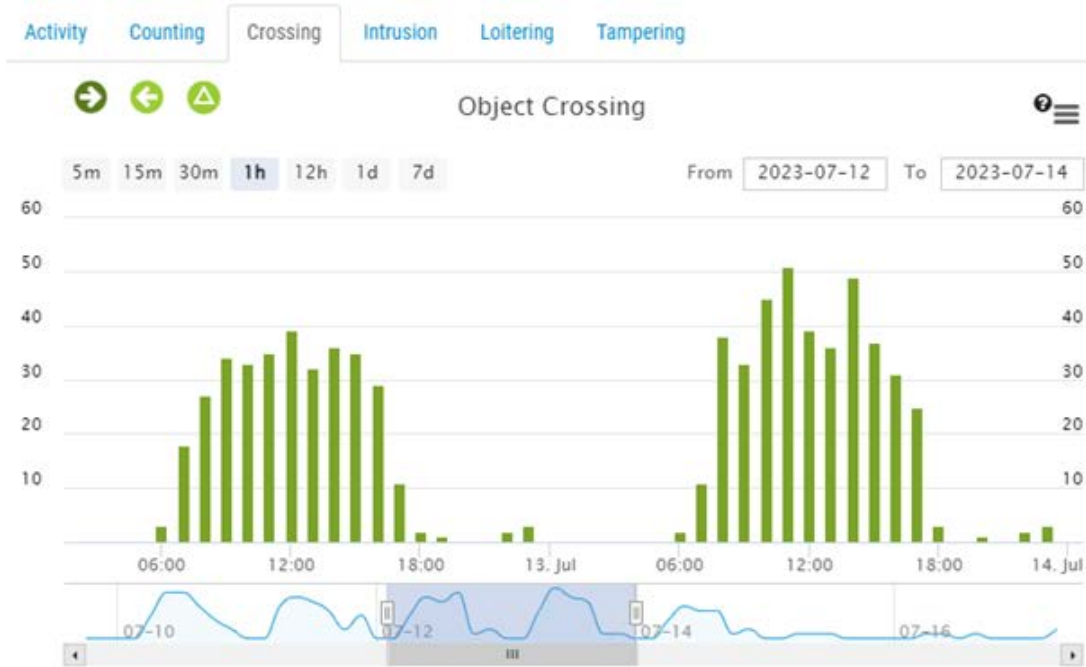




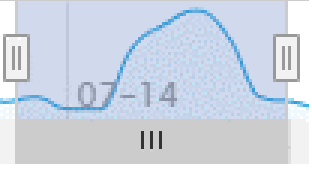
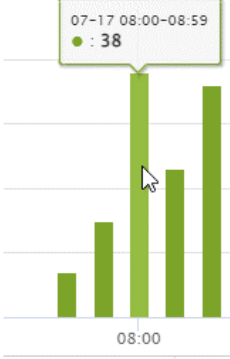



Table 6 contains descriptions of analytics controls.

Table 6: Analytics Controls

ELEMENT	DESCRIPTION
	<p>Filter the data with the direction of the crossings or see the difference between the two numbers.</p> <p>Note: Only applies to Counting and Line Crossing.</p>
	<p>Click Intrusion or Exit to show or hide the graph for objects entering or exiting the intrusion area.</p> <p>Note: Only applicable to Intrusion Count.</p>

Table 6: Analytics Controls

ELEMENT	DESCRIPTION
 <p>Loiter Exit</p>	<p>Click Loiter or Exit to show or hide the graph for objects loitering in or exiting the forbidden area.</p> <p>Note: Only applies to Loitering.</p>
 <p>5m 15m 30m 1h 12h 1d 7d</p>	<p>Choose the duration for the displayed data.</p>
	<p>Get a quick overview of the flow of the count.</p>
 <p>From 2023-07-17 To 2023-07-18</p>	<p>Adjust the time interval.</p>
	<p>Adjust the time interval by dragging.</p>
	<p>Hover over the graph for the number of events. Click to access the History Browser in the selected time period.</p>
	<p>Print or export graphs to various formats.</p>

LICENSE PLATE RECOGNITION (LPR)

Eagle Eye License Plate Recognition (LPR) is a cloud-managed solution from Eagle Eye Networks for the accurate detection and recognition of license plates. Using the Eagle Eye LPR, any ONVIF camera connected to a compatible bridge can function as a license plate reader. The Eagle Eye LPR runs on the bridge, and the data is visualized in the VSP (Vehicle Surveillance Package) feature of the Eagle Eye Cloud VMS.

PREREQUISITES

Before you begin, make sure you have the following:

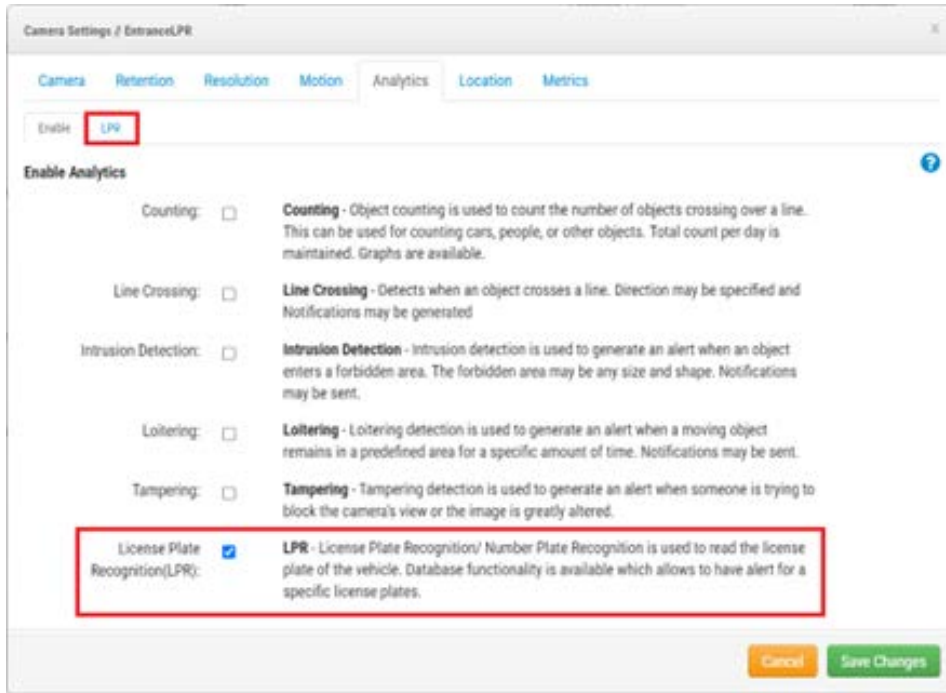
- A compatible bridge – for more information, see the [Eagle Eye LPR Data Sheet](#).
 - The LPR feature enabled in the Eagle Eye Cloud VMS – for more information, see [Enabling LPR](#).
 - A compatible camera installed – for more information, see the [Camera Installation Considerations for LPR/ANPR](#) application note.
 - Eagle Eye LPR - Brivo Integration
 - USB to RS485 Converter - One piece per door
 - A cable for physical connection between the bridge and the panel
- Important:** Only use a cable recommended for OSDP, e.g., a shielded twisted pair cable.
- Eagle Eye LPR - Moxa Integration
 - A Moxa IOLogik e1214 I/O module
 - Power supply for the Moxa module
 - A Cat 6 cable to connect Moxa to the network
 - A cable to connect the Moxa I/O output to the barrier/output port

ENABLING LPR

To enable Eagle Eye LPR analytics in the Eagle Eye Cloud VMS, do the following:

1. Navigate to the **Camera Settings** of your LPR camera, go to the **Analytics** tab, and check the **License Plate Recognition (LPR)** box to enable it for the account as shown in [Figure 102](#).

Figure 102. Enabling License Plate Recognition



2. (Optional) Enable Local ID under the LPR Add-On Feature field for access control. Read more about access control in the [Access Control Integration](#) section.

Note: If either of the fields you would like to edit are not present, contact support to have them enabled for your account.

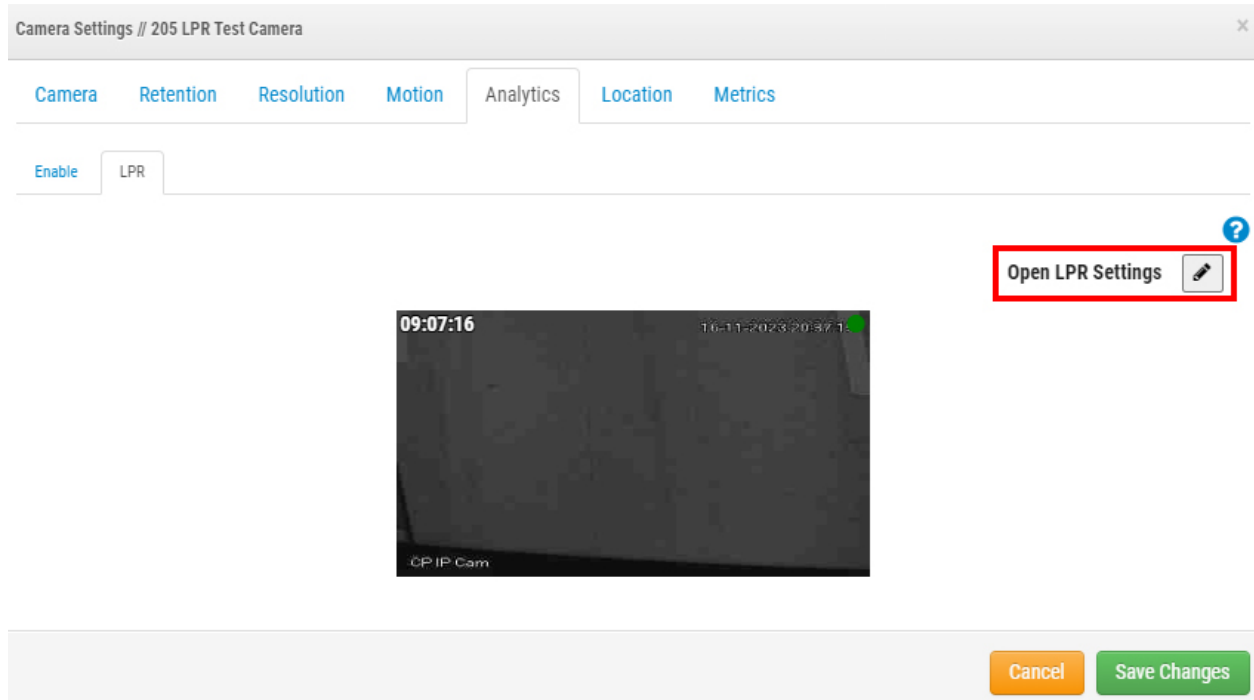
Result: The Eagle Eye LPR is successfully enabled, and now you are able to see the LPR tab as shown in [Figure 102](#).

CONFIGURING LPR

To configure the Eagle Eye LPR, do the following:

1. Go to **Camera Settings** → **Analytics** → **LPR** and click **Open LPR Settings**. See [Figure 103](#).

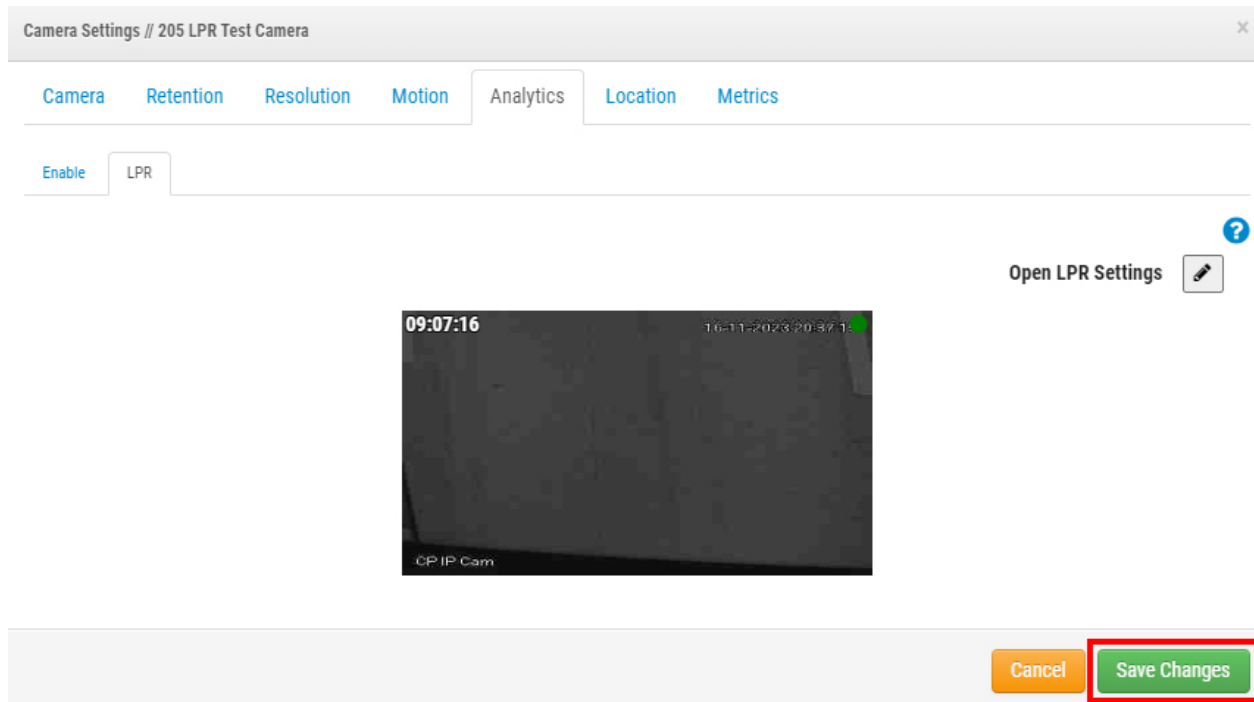
Figure 103. Opening LPR Settings



2. Configure settings in the dialog that opens. For more information about the settings and possible configurations, see the [LPR Tab Settings](#) and [Status Tab Settings](#) sections.

3. Click **Save Changes** after editing the **LPR Settings** and closing the dialog in the **LPR** tab. See [Figure 104](#).

Figure 104. Analytics → LPR: Saving Changes in the Camera Settings



LPR TAB SETTINGS

This section describes the License Plate Recognition tab settings. See [Figure 105](#).

Figure 105. LPR Settings Dialog

The screenshot shows the LPR Settings Dialog in the Eagle Eye Networks software. The dialog is titled "202 LPR Test Testing Room" and has tabs for "LPR", "Status", and "Integration". The "Integration" tab is active, showing various settings for LPR processing. The settings include:

- URL: rtsp://admin:Admin123@192.168.1.202:
- Processing Resolution: 1920X1080
- Processing Frame Rate: 15
- LPR Use Case: Free flow
- Country: US
- Vehicle Make: Enable Vehicle Make
- Vehicle Color: Enable Vehicle Color
- Detect Vehicle without License plate: Enable detection of vehicles without license plate
- Detection ROI: [Click to Draw](#)
- Trigger ROI: [Click to Draw](#)

A large empty area on the right is labeled with coordinates: x-534, y-56, w-1325, h-378.

Available LPR settings are:

- **URL**
 - This field is automatically populated.
- **Processing Resolution**
 - The input resolution of the camera video for LPR. A higher resolution increases the load on the bridge. These guidelines can help you select the optimal value:
 - 1280 x 720 – For lane width (camera view) less than 3.5 meters
 - 1920 x 1080 – For lane width (camera view) between 3.5 and 7 meters

- **Processing Frame Rate**

The frame rate at which the LPR is processed. Choose frame rate based on expected vehicle speed. Higher frame rates increase the load on the bridge.

These guidelines can help you select the optimal value:

- **Gate** (speed less than 10 MPH) – 10 FPS
- **Street** (speed less than 30 MPH) – 15 FPS
- **Highway** (speed less than 70 MPH) – 20 FPS

- **LPR Use Case:** Choose one of two configurations for LPR that align with the use case:

- **Access Control:** This mode is used in gated garages and gated access control situations. For the best possible user experience, it is ideal to start opening the gate as soon as an allowed vehicle appears in front of the gate. Latency is critical, so detecting vehicles ahead of time is preferred. However, there may not be a long enough passage for detecting vehicles ahead of time, especially in rear-LPR scenarios.
- **Free Flow:** This mode is used when vehicles can travel freely at varying speeds. This scenario is applicable for surveillance and security applications when the best view closest to the camera can be chosen as the region of interest for reading license plates. Video streams in this scenario must be processed at higher frames than the other modes. Processing FPS is chosen based on the speed of vehicle movement.

- **Country:** The AI model is tuned for a specific country to have an enhanced accuracy and understanding of the pattern of plates from the county.

Note: If the country you are looking for is not listed in the drop-down list, select the US as the country.

- **Vehicle Make:** The LPR determines the make of the vehicle and includes it in the metadata if you enable this field.
- **Vehicle Color:** The LPR includes the color of the vehicle in the metadata if you enable this field.
- **Detect Vehicle without LP:** The system still detects the vehicle and marks it as an event even if it cannot find or read a license plate because it was covered or missing if this field is enabled.
- **Detection ROI:** The region of interest (ROI) inside which the license plate would be detected.
- **Trigger ROI:** Trigger ROI is specific for customers using LPR for access control. Trigger ROI is a subset of detection ROI and shares the result back when the plate is inside the trigger ROI. Trigger ROI is enabled only in access control mode.
- **Preferential ROI:** Preferential ROI is also a subset of detection ROI and is defined as the region where the plates are clearly visible. With Preferential ROI, the system of the region is informed where license plate reading is most effective.

- **Access Type:** Access Type informs the system on vehicle direction and enables direction filters to ignore vehicles going in the opposite direction. The function is also used for reconciliation.
 - **Entry** – The vehicle enters the premises.
 - **Exit** – The vehicle exits the premises.
 - **Bi-Directional** – Vehicles are expected to move in both directions.
- **Entry Direction:** Entry direction defines the direction of vehicle movement and helps to filter vehicles in opposite directions. The direction mentioned is the trace of the license plate. Users can select multiple

options to filter the direction effectively. For example, the user can select top to bottom and right to left to define diagonal vehicle movement from top right to bottom left.

- Top to bottom
 - Bottom to top
 - Left to right
 - Right to left
- **Repeat LP Detection Timer:** Vehicle congestion and similar issues can cause the same plate to be in front of the camera for a few seconds. This setting can eliminate those repeated results by setting a timer when a plate is read and not saving results for the same plate for the given amount of time.

Provide the value in seconds to ignore the same plate if read.

Note: Only set this parameter if a repeating license plate was observed at the site.

As an example, [Figure 106](#) shows an LPR configuration with Detection ROI enabled.

Figure 106. LPR Configuration with Detection ROI Enabled

The screenshot displays the Eagle Eye Networks LPR configuration interface for a '202 LPR Test Testing Room'. The interface is divided into two main sections: a settings panel on the left and a video feed on the right.

Settings Panel (Left):

- Country:** US
- Vehicle Make:** Enable Vehicle Make
- Vehicle Color:** Enable Vehicle Color
- Detect Vehicle without License plate:** Enable detection of vehicles without license plate
- Detection ROI:** [Click to Draw](#)
- Trigger ROI:** [Click to Draw](#)
- Preferential ROI:** [Click to Draw](#)
- Access Type:** Entry
- Entry Direction:** Top to Bottom, Bottom to Top, Left to Right, Right to Left
- Repeat License Detection Timer (in seconds):** 0

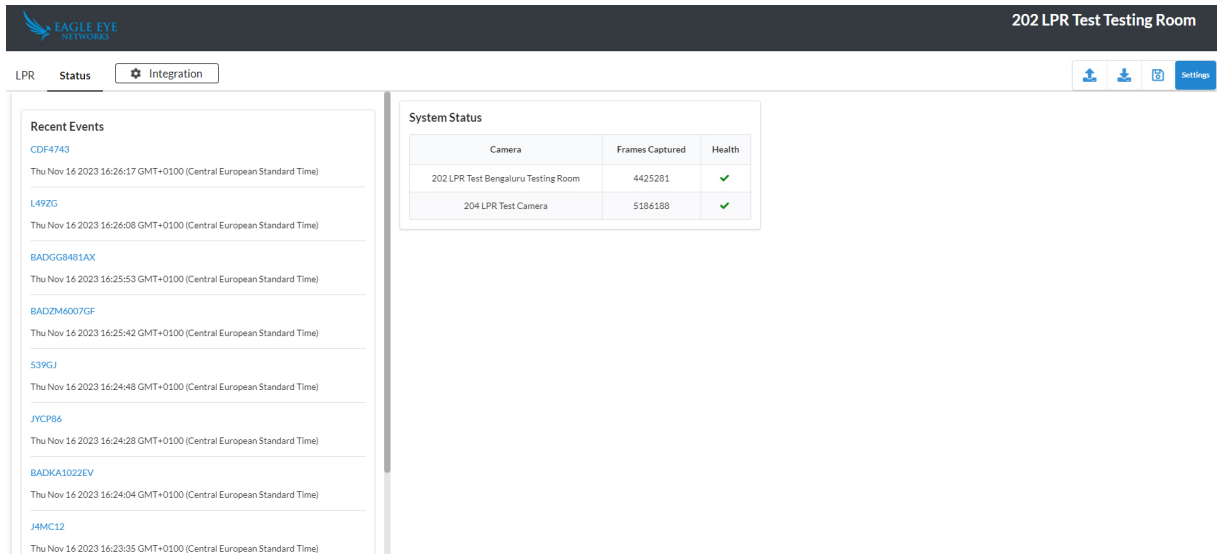
Video Feed (Right):

- Coordinates:** x: 431, y: 176, w: 1439, h: 670
- Timestamp:** 2023-11-16 20:51:26
- Camera Label:** CP IP Cam
- ROI:** A white rectangular region of interest is drawn over the road surface in the video feed.

STATUS TAB SETTINGS

Figure 107 shows the LPR Status Tab settings.

Figure 107. LPR Status Tab Settings



The screenshot displays the LPR Status Tab settings for the '202 LPR Test Testing Room'. The interface includes a header with the Eagle Eye Networks logo and the room name. Below the header, there are tabs for 'Status' and 'Integration'. The 'Status' tab is active, showing two main sections: 'Recent Events' and 'System Status'.

Recent Events

- CDF4743**
Thu Nov 16 2023 16:26:17 GMT+0100 (Central European Standard Time)
- L49ZG**
Thu Nov 16 2023 16:26:08 GMT+0100 (Central European Standard Time)
- BADGG8481AX**
Thu Nov 16 2023 16:25:53 GMT+0100 (Central European Standard Time)
- BADZM6007GF**
Thu Nov 16 2023 16:25:42 GMT+0100 (Central European Standard Time)
- 539GJ**
Thu Nov 16 2023 16:24:48 GMT+0100 (Central European Standard Time)
- JYCP86**
Thu Nov 16 2023 16:24:28 GMT+0100 (Central European Standard Time)
- BADKA1022EV**
Thu Nov 16 2023 16:24:04 GMT+0100 (Central European Standard Time)
- J4MC12**
Thu Nov 16 2023 16:23:35 GMT+0100 (Central European Standard Time)

System Status

Camera	Frames Captured	Health
202 LPR Test Bengaluru Testing Room	4425281	✓
204 LPR Test Camera	5186188	✓

Available LPR Status Tab settings are:

- **Event Info:** Shows the Eagle Eye LPR scans for a specified time period to help to compare results with VSP in the Eagle Eye Cloud VMS. This helps determine if there is a communication issue.
- **System Status:** Presents the number of frames processed to understand how much the LPR engine is working in the background. It also displays the health of the system.

- **Integration:** Supports 3rd party integrations. Please contact Eagle Eye LPR Support for details and support for integrations.

Learn more about integrations in the Brivo Integration and Moxa Integration sections.

ACCESS CONTROL INTEGRATION

Access control integration enables the Eagle Eye LPR to be used as an authentication system to trigger and open the gate. Eagle Eye supports access control through Brivo and Moxa I/O Modules.

To change access control settings, go to **Camera Settings → Analytics → LPR Settings → Access Control**. See [Figure 108](#).

Figure 108. Access Control Tab under LPR Settings

The screenshot displays the Eagle Eye Networks web interface. At the top, the 'EAGLE EYE NETWORKS' logo is visible. Below it, a navigation bar shows 'LPR' and 'Access Control' (highlighted with a red box), along with 'Status' and 'Integration' tabs. The main content area is divided into two sections. The left section contains a form with the following fields: 'Integration Type' (set to 'Via API'), 'DB Client Endpoint', 'Update DB Frequency (in seconds)' (set to '3600'), 'DB Header', and 'DB Client ID'. The right section features a 'Sample' button and an 'Enteries' button, followed by a list of icons for adding, deleting, and confirming entries.

Note: Make sure that **Local ID** is enabled for access control in **Camera Settings → Analytics**. For more information, see Step 2 in [Enabling LPR](#).

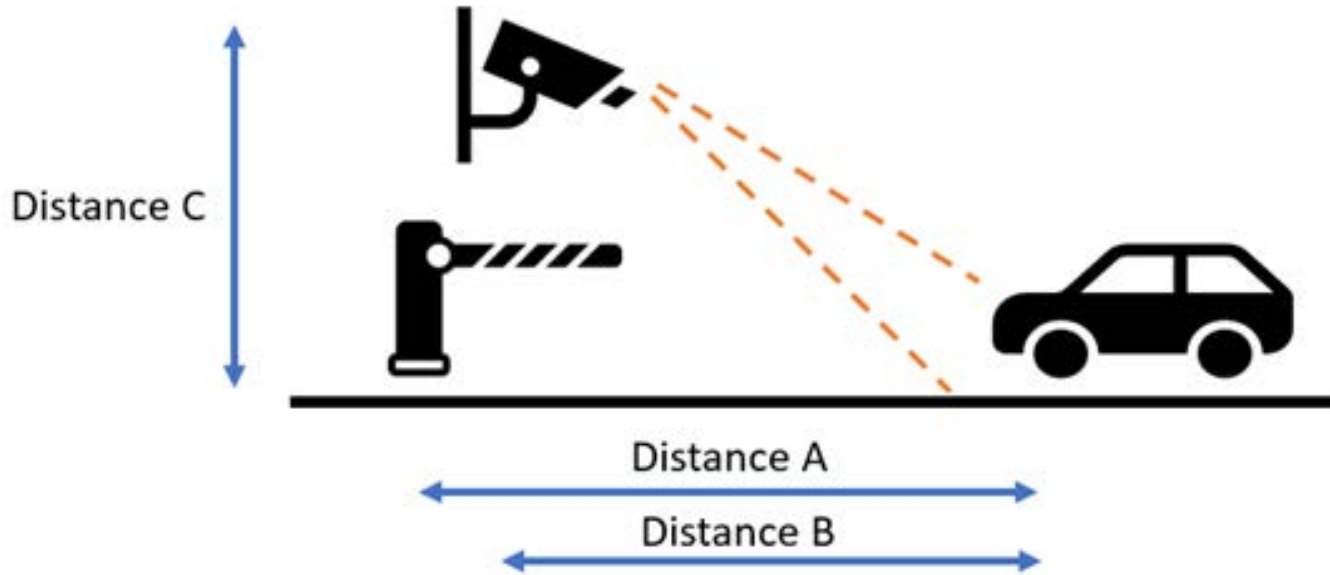
CAMERA POSITIONING FOR ACCESS CONTROL

Camera positioning is very important for access control. In the following sections there are recommendations for various capture methods.

FRONT LICENSE PLATE CAPTURE

Figure 109 shows front license plate capture in the LPR system.

Figure 109. Front License Plate Capture



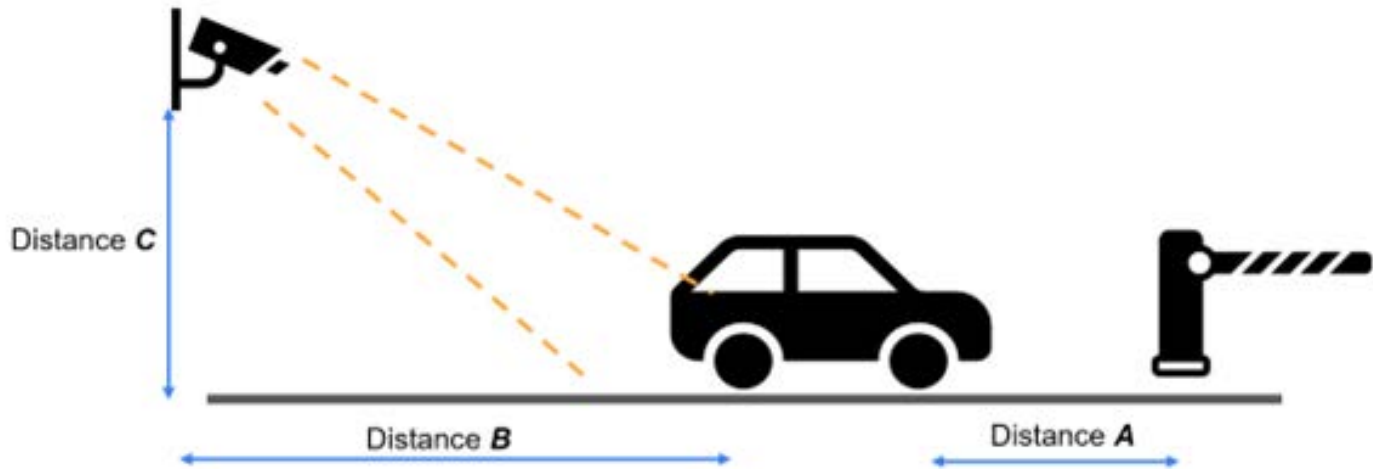
Note: Always keep in mind that the barrier should not occlude license plate capture, and best if the camera is ahead of the barrier.

- **Distance A** – The distance between the barriers to the LPR imaging area. The distance is best kept between 6–12 feet (2–4 meters). This is to ensure that vehicle triggers are sent to the barrier promptly so it opens as the vehicle approaches. No space is left to allow for unauthorized vehicle access.
- **Distance B** – The distance between the camera and the LPR imaging area. For Gate Access Control, the distance is best kept between 6–12 feet (2–4 meters). Access control demands high accuracy, which is only possible if plates are imaged best for LPR. A shorter distance allows for better imaging at night as the IR power can best illuminate nearby plates.
- **Distance C** – The height of camera installation. For Gate Access Control, it is best if cameras are positioned between 4–8 feet (1.5–2 meters). The camera should be angled down approximately 30° to avoid direct sunlight.

REAR LICENSE PLATE CAPTURE

Figure 110 shows rear license plate capture in the LPR system.

Figure 110. Rear License Plate Capture



- **Distance A** – The distance between the barriers to the LPR imaging area. The distance is best kept between 20–26 feet (6–8 meters). This is to ensure that vehicle triggers are sent to the barrier promptly so it opens as the vehicle approaches. No space is left to allow for unauthorized vehicle access. Vehicles in different countries usually have a different length, so the recommended distance from the barrier to the imaging area is 3 feet (1 meter) more than the longest vehicles that might enter the site.
- **Distance B** – The distance between the camera and the LPR imaging area. For Gate Access Control, the distance is best kept between 9–15 feet (3–5 meters). Access control demands high accuracy, which is only possible if plates are imaged best for LPR. A shorter distance allows for better imaging at night as the IR power can best illuminate nearby plates.
- **Distance C** – The height of camera installation. For Gate Access Control, it is best if cameras are positioned 4–9 feet (1.5–3 meters), or if side-mounted, 8–10 feet (2.5–3 meters). The camera should be angled down approximately 30° to avoid direct sunlight.

BRIVO INTEGRATION

The section explains the physical connection between the Eagle Eye Bridge and the Brivo panel, and how to configure the LPR on the Eagle Eye LPR side.

To integrate the LPR with the Brivo panel, do the following

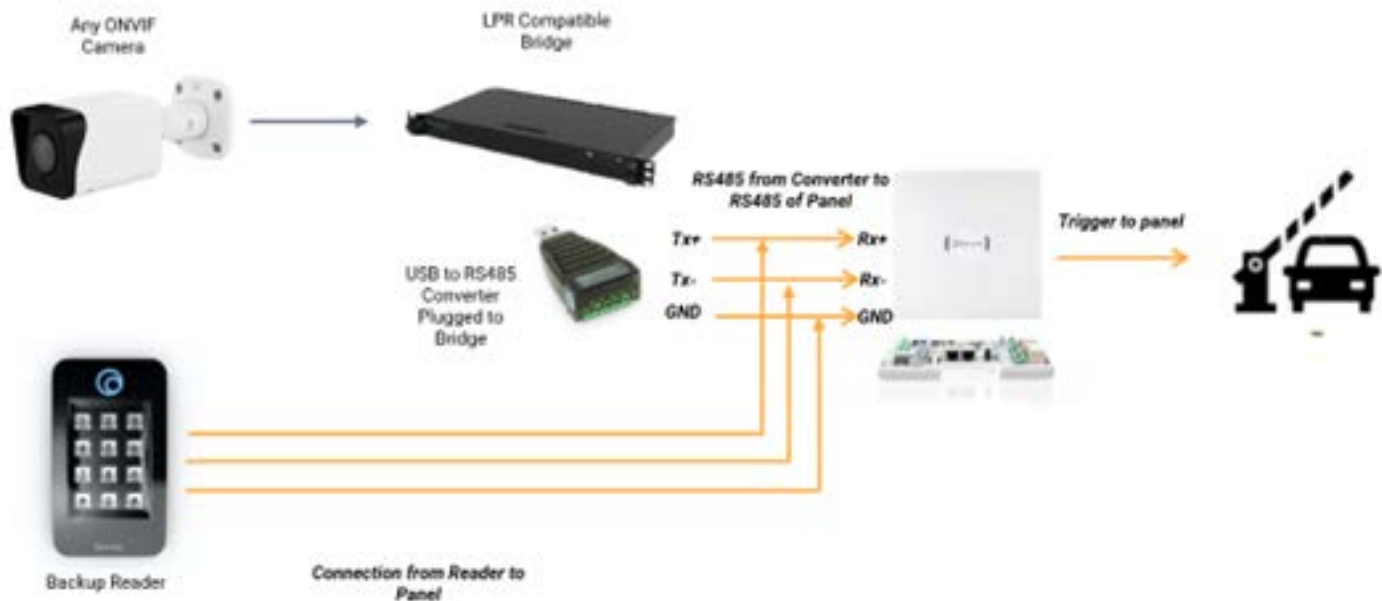
1. Insert the USB to RS485 converter to the USB port of the bridge and complete the wiring. See [Figure 111](#).

Figure 111. Connection between the Eagle Eye Bridge to the Brivo Panel using an USB to RS485 converter



2. Make sure that you use the right cable (a shielded twisted pair cable) to avoid lossless transmission.
3. (Optional) If required, you might need to connect a Backup Reader. See [Figure 112](#).

Figure 112. Connection between the Eagle Eye Bridge to the Brivo Panel using an USB to RS485 converter and a Backup Reader



To enable Brivo Integration, go to **Camera Settings** → **Analytics** → **LPR** → **LPR Settings** → **Access Control** and select Brivo from the list in the **Integration Type** field, as shown in [Figure 113](#).

Figure 113. Integration Type – Brivo

LPR **Access Control** Status

Integration Type Brivo ▼

Search Serial

USB Convertor Serial Number

Peripheral Device ID 0 ▼

Available Brivo integration access controls are:

- **Search Serial:** Finds the serial numbers of the USB Converters attached to the bridge. Select the S/N of the USB Converter corresponding to the door (LPR Lane). See [Figure 114](#).
- **USB Converter Serial Number:** Displays serial number of components selected in **Search Serial**.
For troubleshooting, verify the serial number here.
If the USB Converter is interchanged or replaced with a new USB Converter, the user should change the serial number of the USB Converter attached to the camera during configuration.
- **Peripheral Device ID:** Indicates the following:
 - 0 - If no other reader is connected to the door
 - 1 - If any other reader is connected to the door

Figure 114. Searching Serial Numbers

Search Serial	A10MMNR6 /dev/ttyUSB0
USB Converter Serial Number	A10MMNR6 /dev/ttyUSB0 A10M23KC /dev/ttyUSB1
Peripheral Device ID	0

MOXA INTEGRATION

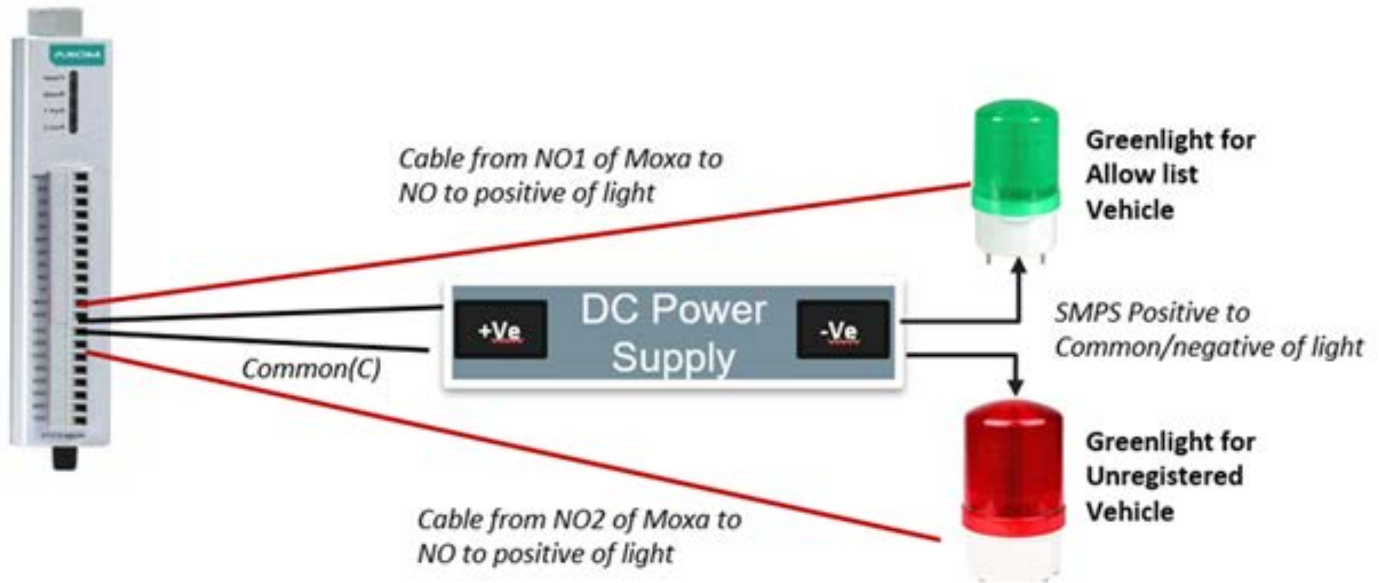
Communication with Moxa Iologik e1214 module is over IP. The Moxa module is connected to the WAN port. The device has to be powered separately with the DC power adapter provided. See [Figure 115](#).

Figure 115. Moxa Connection to a Barrier/Shutter



In case of a connection to a light or a buzzer, the output from Moxa I/O to light is as shown in [Figure 116](#).


Figure 116. Moxa Connection to a Light or Buzzer



Note: Make sure that the power supply and light are compatible before purchasing.

To enable Moxa Integration, go to **Camera Settings → Analytics → LPR → LPR Settings → Access Control** and select External I/O Moxa from the list in the field Integration Type, as shown in [Figure 117](#).

Figure 117. Integration Type – Moxa

LPR Access Control Status  Inte

Integration Type	External I/O - Moxa
External I/O IP	
Allow List External Output Pin(I/O)	478
Deny External Output Pin(I/O)	471
Unregistered External Output Pin(I/O)	405

Available Moxa integration access controls are:

- **External I/O IP:** Provide the IP address of the Moxa I/O module here. Ensure that the Moxa I/O module is made to static IP to avoid the IP getting changed in the future.
- **Allow List External Output Pin(I/O):** Provide the PIN information of Moxa.
- **Deny List(Hotlist) External Output Pin(I/O):** Provide the PIN information of Moxa.
- **Unregistered External Output (I/O):** Provide the PIN information of Moxa.

Note: The database of vehicles can be uploaded or entered through the LPR Configuration UI, as shown in Figure 118.

Figure 118. LPR Configuration UI

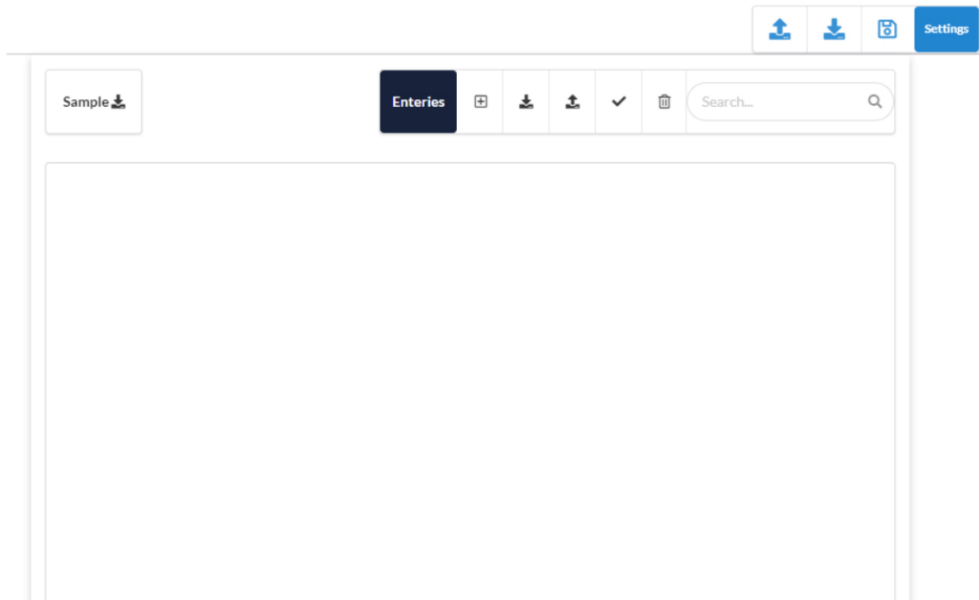


Table 7 covers camera specifications that help to get optimal readings for license plates in each use case.

Table 7: Camera Specifications for Optimal LPR Readings

SPECIFICATION	GATE LPR 10 MPH (20 KM/H)	STREET LPR 30MPH (50 KM/H)	HIGHWAY LPR 70MPH (110 KM/H)
FPS	10	15	20
	Important: For an optimized performance, the FPS of the camera and the LPR processing FPS have to be the same.		
Day and Night Settings	Switching from day mode to night mode should be Auto. If the camera supports profile mode, then two profiles can be set, one for day time and one for night. If a monochrome image is acceptable, then night mode can be set permanently.		

Table 7: Camera Specifications for Optimal LPR Readings

SPECIFICATION	GATE LPR 10 MPH (20 KM/H)	STREET LPR 30MPH (50 KM/H)	HIGHWAY LPR 70MPH (110 KM/H)
Maximum Exposure/ Shutter	1/250 If motion blur is observed, this can be changed to 1/500.	1/500 – 1/1000 Depends on motion blur. Shutter can be set to 1/1000 to prevent motion blur.	1/1000 - 1/2000 Depends on motion blur. Shutter can be set to 1/2000 to prevent motion blur.
	Note: If plates are saturated, you may reduce shutter speed.		
HLC	Turned on		
Gain	Needs to be kept below 10% to minimize noise in the image. Different cameras have different settings, so you may need to adjust the Gain to have proper imaging.		
IR Power	Set to Full . It is always advised to keep IR power to maximum and reduce gain.		

TESTING THE CLARITY OF THE LICENSE PLATE IMAGE

Follow the steps below to make sure you have the correct setup.

Note: You should perform these steps in both day and night environments.

1. Park a vehicle in the camera's view and adjust the settings as described in [License Plate Recognition \(LPR\)](#).
2. Adjust the settings to have the optimal image quality.
Note: Exposure may be limited as mentioned in [Table 7](#).
3. Drive the vehicle at the maximum speed expected at the site and make sure there is no motion blur.
4. Adjust the gain as required to have clear images of the plates.
5. Verify the results for the next 24 hours, and adjust the settings as needed to make sure that all plates are clearly visible.

Alerts and Notifications

Alerts are advanced features of the VMS and are mostly used by Resellers and admins. They are primarily associated with motion and analytic events. Each alert can be configured individually, when a motion detection region or other analytic is set up. To learn more, see [Motion Detection](#) and [Analytics](#).



Note: It is not possible to set up an alert for the [Counting](#) analytics.

Alerts

This section contains information about setting up Alerts, Alert Modes, and Alert Levels.

SETTING UP ALERTS

To set up Alerts, do the following:

1. Go to a camera's **Camera Settings**, by doing either of the following:
 - Click the gear icon  next to the camera in the **Dashboard**.
 - Click the arrow icon  next to the camera image in **Layouts**.
2. Navigate to the chosen motion detection/analytics tab.
For example: **Camera Settings** → **Analytics** → **Line Crossing**.
3. Choose the region/line already set up from the list.

Note: For more information on setting up motion detection regions and analytics, see [Setting up Motion Detection](#) and [Setting up Analytics](#).




- Click the bell icon  to open the alert/notification settings. See [Figure 119](#).

Figure 119. Accessing Alerts

Order	Name	Sensitivity	Object Size	Actions
↑↓ 1	Screen Mask	0 <input type="text"/>	Small <input type="button" value="v"/>	 
<p>Enable Alerts: <input type="checkbox"/></p> <p>When: 24 hours <input type="button" value="v"/></p> <p>Re-arm: After <input type="button" value="v"/> 15 <input type="text"/> minutes</p> <p>Max Per Hour: <input type="text"/></p> <p>Who: None selected <input type="button" value="v"/></p> <p>Mode: All <input type="button" value="v"/></p> <p>Level: High <input type="button" value="v"/></p>				

[Table 8](#) contains descriptions of **Alerts** settings.

Table 8: Alert Settings (Sheet 1 of 3)

FIELD	DESCRIPTION
Alert Enable	This is the default setting. To temporarily disable the alert, uncheck the box.

Table 8: Alert Settings (Sheet 2 of 3)

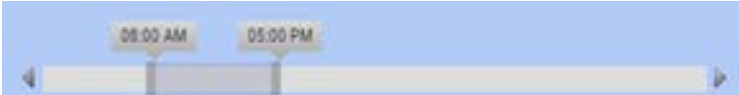
FIELD	DESCRIPTION
<p>When</p>	<p>This determines when the alert is active. Choose to have the alert always enabled or specify exact times for when it should be enabled.</p> <p>Possible options:</p> <ul style="list-style-type: none"> • 24 Hours – The alert is always enabled. • Work Hours – The alert is only enabled during the work hours specified in Account Settings. Read more in My Profile and Account Settings. • Non-work Hours – The alert is enabled outside of the work hours specified in Account Settings. Read more in My Profile and Account Settings. • Custom Hours – Select the hours that the alert is enabled on the slider.  <p>Note: This given time window applies to both weekdays and weekends.</p> <p>Note: If it is not enabled outside of the given times, no full-resolution video is recorded.</p>

Table 8: Alert Settings (Sheet 3 of 3)

FIELD	DESCRIPTION
Re-arm	<p>After an alert has been triggered, it is possible to turn it off for a given time to prevent too many notifications.</p> <p>Possible options:</p> <ul style="list-style-type: none"> • Immediately – Choose this option to never have the alert turned off. Note: If you choose this option, multiple notifications could be generated by the same object. • After – Turn off the alert for a number of minutes after it is triggered to prevent the same event from creating multiple alerts. Enter the number of minutes in the minutes field. • After Quiet for – Turn off the alert for a set amount of time after it has not been triggered. Important: Any possible subsequent detections within that period would cause the timer to reset, so use caution with this option.
Max Per Hour	Set the maximum number of alerts that can be generated within a one-hour period.
Who	<p>Choose who gets notified when the alert is triggered.</p> <p>Possible options:</p> <ul style="list-style-type: none"> • Select All. • Choose from the list of user names from your users list individually. <p>Note: Multiple names can be selected.</p> <p>Learn more in Notifications.</p>
Mode	Choose the Mode that the alert will belong to. Learn more in Alert Modes .
Level	Choose the Level for the alert. Learn more in Alert Levels .

ALERT MODES

Alert modes let you configure that certain alerts are only active during certain times. For instance, you can create a mode for holidays, when the lobby will not be manned. Normally, there is a lot of motion in the lobby, and there's a

receptionist stationed there, so you're not interested in generating alerts. Then, on a holiday, you change the VMS Mode to Holiday and motion detected in the unmanned lobby now generates alerts and, if configured, notifications.

SETTING A MODE

To set an Alert Mode, do the following:

1. Click the drop-down arrow next to your profile name and go to **Account Settings → Alerts**.
2. Choose the mode from the drop-down list to make it active. See [Figure 120](#).

Figure 120. Activating Alerts

Control Days Security Camera Alerts Notifications Privacy Sharing Responders Defaults

Edition

Active Alert Mode: Normal Business ?

New Alert Mode Name Add Alert Mode

- Normal Business x
- Special Event x
- Holiday Break x

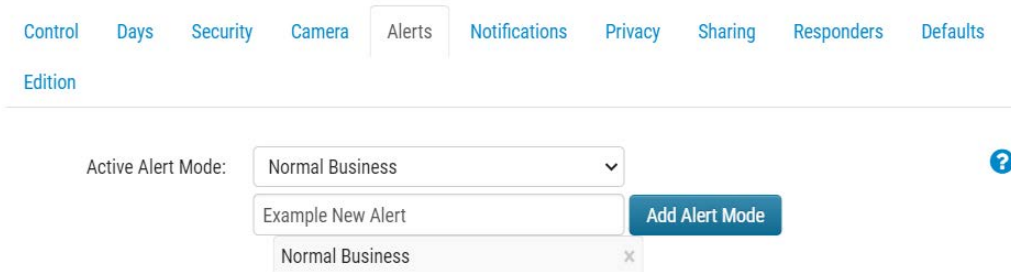
Cancel Save changes

CREATING A NEW MODE

To create a new Alert Mode, do the following:

1. Click the drop-down arrow next to your profile name and go to **Account Settings → Alerts**.
2. Enter the name for the new mode in the text field, then click **Add Alert Mode**. See [Figure 121](#)

Figure 121. Adding Alert Modes



The screenshot shows the 'Alerts' tab in a settings menu. At the top, there are tabs for Control, Days, Security, Camera, Alerts (selected), Notifications, Privacy, Sharing, Responders, and Defaults. Below the tabs, the 'Edition' label is visible. The main content area shows 'Active Alert Mode:' with a dropdown menu currently set to 'Normal Business'. Below this is a text input field containing 'Example New Alert' and a blue 'Add Alert Mode' button. A dropdown menu is also visible below the input field, showing 'Normal Business' with a close icon (x).


Important: There are no settings associated with creating a new alert mode. In this setting, you only determine its name. Alerts must be configured individually then associated with one or more modes. See [Adding an Alert to a Mode](#).

ADDING AN ALERT TO A MODE

Important: When an alert is created, it is automatically associated with all modes. For an alert to be generated only for specific modes, configure it manually.

Note: An alert can be associated with any number of modes.

To add an alert to a mode, do the following:

1. Navigate to the alert you want to edit, typically in **Camera Settings → Motion** or **Camera Settings → Analytics**.
2. Click the alert icon  if the alert information is not already visible.
3. Click the Mode drop-down arrow to view the different modes added in **Account Settings → Alerts**. See [Figure 122](#).

Note: Be sure to check each mode the alert should apply to and uncheck those that should not include this alert.

Figure 122. Alert Modes



ALERT LEVELS

You can specify whether an alert is High or Low priority. You can determine who gets notified for the alert based on its priority. Users can choose in their Profile Settings whether they will be notified for High, Low, or both levels of alerts. For example, you can have standard operators who are notified for all alerts, and managers who are only notified for high-priority alerts.

SPECIFYING ALERT LEVELS

Alert levels are set individually. Alerts are primarily found in Camera Settings for motion events and Analytics events.

To specify alert levels, do the following:


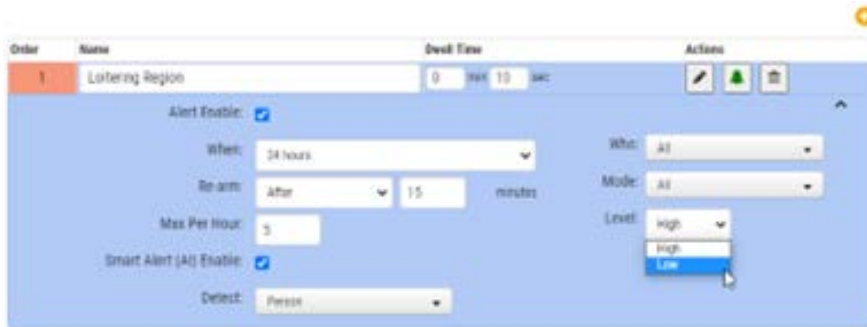
1. Navigate to the alert you want to edit, typically in **Camera Settings → Motion** or **Camera Settings → Analytics**.
2. Click the alert icon  if the alert information is not already visible.
3. Click the **Level** drop-down list to view the levels and specify whether the alert is considered **High** or **Low** priority. See [Figure 123](#).

Figure 123. Alert Levels



Notifications

Notifications are generated by alerts. See [Alerts](#) for more information.

Notifications can also be set up through My Profile. See [Notifications](#) for more information.

When you create an alert, you can specify who gets notified. A notification is a message that is sent to a user through email, or as a push notification on a mobile device, or tablet etc.

See more:

[Subscribing to Notifications Based on the Alert Level](#)

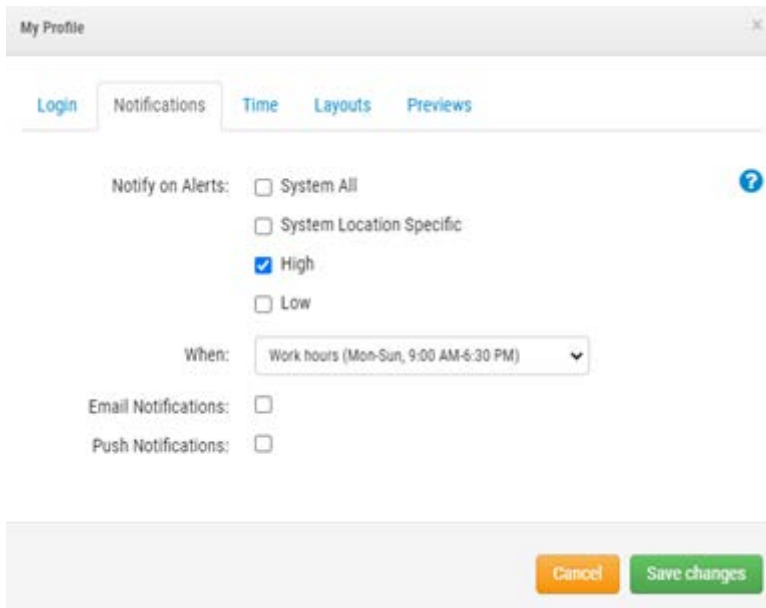
[Setting up Notifications](#)

SUBSCRIBING TO NOTIFICATIONS BASED ON THE ALERT LEVEL

The **Alert Levels** define the priority of an event. To properly utilize alert levels, determine whether users should receive **High** alert notifications, **Low** alert notifications, or both.

1. Click the drop-down arrow next to your profile name and select **My Profile**.
2. Go to the **Notifications** tab.
3. Check or uncheck the boxes to receive notifications for **High**, **Low**, or both alerts. See [Figure 124](#).

Figure 124. Setting up Notifications Based on Alert Level



My Profile

Login Notifications Time Layouts Previews

Notify on Alerts: System All System Location Specific High Low

When: Work hours (Mon-Sun, 9:00 AM-6:30 PM)

Email Notifications:

Push Notifications:

Cancel Save changes

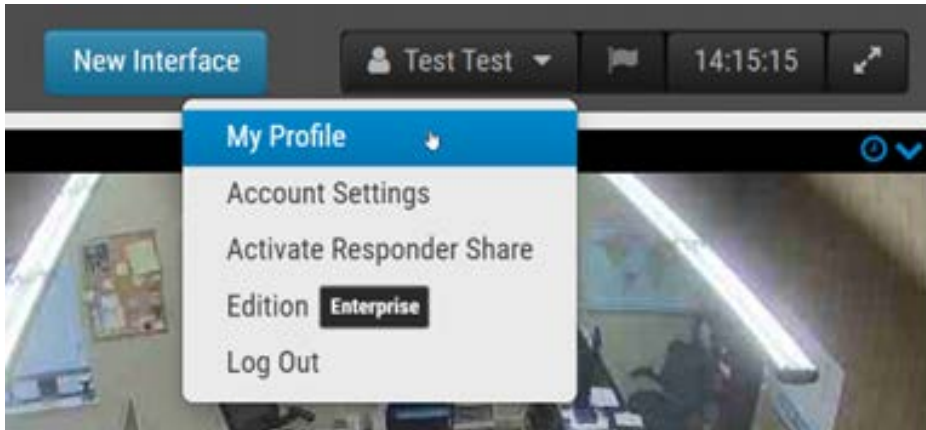
SETTING UP NOTIFICATIONS

The options for notifications are based on user settings that dictate how and when a certain user gets alert notifications. As notifications are configured per user, these settings can only be accessed and changed by the account that you are currently logged into.

To set up **Notifications**, do the following:

1. To access notification settings, click the drop-down arrow next to your profile name and select **My Profile**. See [Figure 125](#).

Figure 125. Accessing User Profile



2. Go to the **Notifications** tab. See [Figure 126](#).

Figure 126. Accessing Notifications

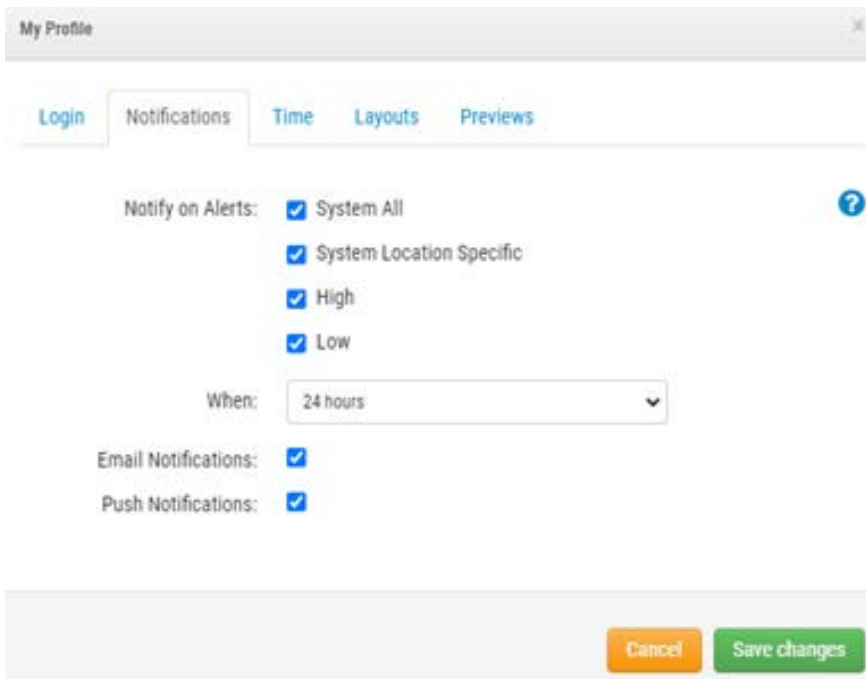


Table 9 contains descriptions of **Notifications** settings.

Table 9: Notifications Settings

FIELD	DESCRIPTION
Notify on Alerts	<ul style="list-style-type: none">• Choose the Alert Levels when designated users should be notified. Select all that apply.• (Only visible for Admins) System All – Notifies users when your devices (bridges, cameras) go offline.• (Only visible for Admins) System Location Specific – Sends notifications when devices (bridges, cameras) go offline at a certain location.• High – Sends notifications about high level alerts• Low – Sends notifications about low level alerts <p>See more in Subscribing to Notifications Based on the Alert Level.</p>
When	<p>Choose whether to always receive notifications or specify the exact times they should be sent.</p> <ul style="list-style-type: none">• 24 Hours – Notifications are always sent, whenever an alert is generated.• Work Hours – Notifications are only sent during the work hours specified in Account Settings. No notifications will be sent for alerts generated outside of work hours.• Non-work Hours – Notifications are not sent for alerts generated during the work hours specified in Account Settings. Notifications are only sent outside of those times.• Custom Hours – Notifications are set by using a slider to select the hours they are sent with the darker region of the slider showing the enabled times. Note that this time window applies to both weekdays and weekends.
Email/Push Notifications	<p>Choose the kind of notifications to receive.</p> <p>Important: Notifications are NOT delivered by text message. You need to have the Eagle Eye Viewer app installed on your mobile device to receive push notifications.</p>

Vehicle Surveillance Package (VSP)

The Eagle Eye Cloud VMS Vehicle Surveillance Package (VSP) takes traditional License Plate Recognition (LPR) and adds analytic features such as marking tags as allowed or denied, watchlisting, and search. This package combines on-camera LPR tools (from supported devices) with the analytic power included in the Eagle Eye Bridges and CMVRs, then uses the cloud to make the resulting information available anywhere with an internet connection, via the VMS.

The VSP is only available on Enterprise and Professional editions of the VMS. It is mostly used by Resellers and admins rather than end users.

VSP Summary

The VSP Summary page provides an overview of the Vehicle Surveillance Package activity on the account, starting with a high level summation of all license plate reads, then showing the most recent alerts, and detected plates.

See [Figure 127](#) for an example VSP Summary Page.

Figure 127. VSP Summary Page

The screenshot displays the Eagle Eye Networks VSP Summary page. The interface includes a sidebar with navigation options like Dashboard, Locations, and VSP. The main content area is titled 'Account Summary' and shows a table of license plate reads by time period. Below this is a 'Latest Alert' section with a table of alerts, and a 'Latest Plates' section with a table of detected plates, each accompanied by a thumbnail image and license plate details.

Last Hour	Today	Month To Date	Year To Date	Total
17	130	2,021	59,489	113,410

License Plate	Timestamp	Type	Status	Cleared By	Clear Reason	Cleared At	Camera	Location
TCX1566	2023-09-20 13:11:16 (CDT)	Allow	Active				CFW Entrance LPR (1MP)	Capital Factory West
LJZ1807	2023-09-20 13:10:55 (CDT)	Allow	Active				CFW Entrance LPR (1MP)	Capital Factory West
RJD9894	2023-09-20 13:10:23 (CDT)	Watchlist	Expired				CFW Entrance LPR (1MP)	Capital Factory West
RJD9894	2023-09-20 13:10:21 (CDT)	Allow	Active				CFW Entrance LPR (1MP)	Capital Factory West
SLL4879	2023-09-20 13:07:29 (CDT)	Watchlist	Expired				CFW Entrance LPR (1MP)	Capital Factory West

Thumbnail	License Plate	Camera	Location	Timestamp	Make Model	Color
	MMZ4202	CFW Entrance LPR (1MP)	Capital Factory West	2023-11-10 12:18:07 (CST)	mazda	white
	DDI 1907	CFW Entrance LPR (1MP)	Capital Factory West	2023-11-10 12:17:38 (CST)	lexus	red

SUMMARY

The **Summary** page shows the number of plates detected in several time periods: last hour, today, month to date, year to date, total. These fields cannot be configured.

LATEST ALERTS

The five most recent alerts are displayed here. More alerts can be viewed and filtered by clicking the **Alerts** link at the top of the **Summary** page. Alerts are governed by rules that can be created, modified, or deleted on the **Rules** page, accessible at the top of the **Summary** page.

LATEST PLATES

This section displays the ten most recent plates detected (at the time the page is loaded), and the details of these plate reads. More plates can be viewed and filtered on the Search page, accessible at the top of the Summary page.

CAMERA SUMMARY

This section displays the license plate reads on a per camera basis, showing the statistics for each one (reads in the last hour, today, month and year to-date, total). Using these numbers, over or under-active cameras can be identified in order to determine any necessary remediation.

VSP Search

Vehicle Surveillance Package records all plates detected by a compatible camera in the VMS. This might lead to the accumulation of a larger number of license plates to skim through. License plate search makes it easier to find the car you're looking for in the database.

You can search certain areas, partial plates, or a specific plate at any location where you have a compatible camera. See [Figure 128](#) for an example VSP Search page.

Figure 128. VSP Search Page

The screenshot shows the Eagle Eye Networks VSP Search interface. The top navigation bar includes the Eagle Eye Networks logo, a user profile (Demo User), and the time (12:24:24). The left sidebar contains navigation options: Dashboard (79), Locations, Floor Plans, Layouts (20), Tags (27), First Responder (1), Map, Users (33), Archive, Downloads, Video Search, and VSP (selected). The VSP menu includes Summary, Search, Alert, and Rule.

The main search area is titled "Q VSP Search" and contains the following fields:

- License Plate:
- Date Range: 2023/11/07 0:00:00 - 2023/11/11 0:00:00
- Location: Any location (dropdown)
- Camera: Any camera (dropdown)

A "Search" button is located below the search fields. Below the search form is a map of Texas and surrounding areas, with a red pin on Austin. The map shows major cities like Dallas, Fort Worth, Houston, San Antonio, and Ciudad Juárez. The map interface includes "Map" and "Satellite" tabs, a "Map data ©2023 Google, INEGI" footer, and a "Keyboard shortcuts" link.

Below the map, the search results are displayed as a table with the following columns: Thumbnail, License Plate, Camera, Location, Timestamp, Make Model, Color, and Actions. The table shows two results:

Thumbnail	License Plate	Camera	Location	Timestamp	Make Model	Color	Actions
	TEXAS NTC-9864	CFW Entrance LPR (IMP)	Capital Factory West	2023-11-10 12:20:35 (CST)	kia	silver	Locations +/-15 min
	TEXAS MMZ-4202	CFW Entrance LPR (IMP)	Capital Factory West	2023-11-10 12:18:07 (CST)	mazda	white	Locations +/-15 min

The table also indicates "Showing 1 to 10 of 882 entries" and a "Limit 10" dropdown.

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SEARCH PARAMETERS

Use the following fields to refine the search parameters for the user:

- **License Plate** – This field accepts any alpha-numeric set of characters that pertain to the license plate sought. Fuzzy search is also supported. Users can introduce an asterisk (*) in place of an unknown character.
Example: To search for plate starting with AB, users can type AB* to find results for plates starting with AB. Similarly, to find plates ending in 23, users can search for *23 to find plates ending with 23.
Fuzzy search also allows searching for specific characters. Search A*1*3 would return plates having characters A,1,& 3 in the given order.
- **Date Range** – Enter specific start and stop dates and times to filter results, or use predefined time periods (e.g. the current day, the previous day, the previous week, the current month, and the previous month).
- **Location** – Search for specific locations. This shows results from any compatible camera at the given location.
Note: This requires the location to have been configured in the camera's settings within the VMS. Alternatively, **Any Location** can be selected to view results from all compatible cameras.
- **Camera** – Search for results from a specific camera, or from all compatible cameras.

SEARCH RESULTS

When clicking the search button, the map updates with license plates that match the search parameters, and a list of potential matches is displayed. Each potential match contains the following information:

- **Thumbnail** – A screenshot of the license plate as seen by the VMS. Click the thumbnail to open the History Browser to view the clip.
- **License Plate** – A cropped image of the license plate, skewed to display head-on, and the license plate value read by the camera.
Note: There may be some discrepancies in these entries, most likely because of an improperly positioned camera. The camera should be positioned so that the vehicles are approaching head-on, and slowly.
- **Camera** – The name of the camera where the license plate was seen.
- **Location** – The name of the location where the license plate was seen.

- **Timestamp** – The date and time that the clip was taken.

Note: The timestamp shown here is adjusted to the Timezone value set for the user in the VMS. When viewing the clip in the History Browser, the History Browser shows the timezone of the camera.

- **Actions** – The **Locations +/- 15 min** button repopulates the search results to all plates read at that location fifteen minutes before and after the time that plate was read.

VSP Alerts

The License Plates Alerts page gives the user an opportunity to view a historical listing of all license-plate-related alerts received on the account, sorted by the time received. The alerts can also be filtered by a number of parameters to only view those related to the specific issue the user is investigating.

See [Figure 129](#) for an example VSP Alerts page.

Figure 129. VSP Alerts Page

The screenshot displays the Eagle Eye Networks VSP Alerts page. The interface includes a search form with the following filters:

- Status: All
- Date Range: 2023/11/03 0:00:00 - 2023/11/11 0:00:00
- Type: All VSP Alerts
- Cleared by: Any
- License Plate: (empty)
- Location: Any location

A Search button is located below the filters. The results table has the following columns: License Plate, Timestamp, Type, Status, Cleared By, Clear Reason, Cleared At, Camera, Location, and Actions. The table currently shows "No Result". A pagination control at the bottom of the table shows "« Previous 1 Next »".

ALERT PARAMETERS

The search form allows for any license plate alert to be searched and filtered. The following parameters can be specified.

- **Status** – Use this parameter to specify whether the displayed alerts are Active, Cleared, or All.
- **Date Range** – Specific start and stop days/times can be entered to filter results, or predefined time periods can be used (current day, previous day, previous week, current month, and previous month).

- **Type** – Alert types can be filtered by **Allow**, **Deny**, or **Watch**. Plates can be added to these types through Rules.
 - **Allow** – Plates that are allowed to enter the access point.
 - **Deny** – License plates that are denied access to the entry point.
 - **Watch** – Specific plates that entered or left the lot and were not scanned again for a certain amount of time, meaning they stayed in or out for too long.
- **Cleared By** – Alerts can be filtered by the specific user who cleared them, or **Any** can be selected to show all alerts.
- **License Plate** – This field accepts any alpha-numeric set of characters that pertain to the license plate sought. It is not case-sensitive and will work with any number of characters, allowing for partial or specific plates to be searched. Do not enter spaces between search items.
- **Location** – This field is used to specify a specific named location to search. This will show results from any compatible camera at that location. This requires the location to have been configured in the camera’s settings within the VMS. Alternatively, **Any Location** can be selected to view results from all compatible cameras.

ALERT SEARCH RESULTS

When the search button is clicked, the table below it will populate with the alerts that match the parameters selected. For each alert, the following information is displayed.

- **License Plate** – Displays the license plate that generated the alert.
- **Timestamp** – Reports the day and time the alert was generated.
- **Type** – Lists the alert as being **Whitelist**, **Blacklist**, or **Watchlist**. See the above section for details on these types.
- **Status** – Displays whether the alert is **Active** or **Cleared**.
- **Cleared By** – Lists the name of the user who cleared the alert.
- **Clear Reason** – Shows the reason for clearing the alert, as selected by the user who cleared it. Available selections are **Authorized**, **Incorrect**, or **Overridden**.
- **Cleared At** – Shows the timestamp for when the alert was cleared.
- **Location** – Reports the location where the alert occurred if the location has been defined in the camera’s settings.
- **Actions** – Presents a button that will clear the alert with the reason selected by the user.

VSP Rules

License Plate Rules dictate the alerts and notifications for the analytic. You can use these rules to notify certain people if a particular license plate is detected entering a garage, for example. The rules come in one of three varieties: **Allow**, **Deny**, and **Watch**.

See [Figure 130](#) for an example of a VSP Rules page.

Figure 130. VSP Rules Page

The screenshot shows the Eagle Eye Networks VSP Rules page. At the top, there is a header with the Eagle Eye Networks logo and a user profile for 'Demo User' with the time '12:45:38'. Below the header is a sidebar with navigation options: Dashboard (79), Locations, Floor Plans, Layouts (20), Tags (27), First Responder (1), Map, Users (53), Archive, Downloads, Video Search, and VSP (Summary, Search, Alert, Rule). The main content area is titled 'VSP Rule' and contains a form to create a new rule. The form has four fields: License Plate (text input), Location (dropdown menu with 'Any location' selected), Type (dropdown menu with 'Allow' selected), and Recipients (text input with '1 user' and a plus sign). Below the form is a 'Save' button. Underneath the form, it says 'Showing 1 to 10 of 43 entries' and a 'Limit' dropdown set to '10'. The main part of the page is a table with the following columns: License Plate, Location, Type (Watch / Allow / Deny), Date-Time Created, Recipients, and Actions. The table contains 10 rows of data:

License Plate	Location	Type (Watch / Allow / Deny)	Date-Time Created	Recipients	Actions
LRJ-7145	All locations	Watchlist (15 Minutes)	2022-08-09 02:21:06 (CDT)	BK Yeoh, Demo User	
LRJ-7145	Capital Factory West	Watchlist (15 Minutes)	2022-08-10 11:36:02 (CDT)	Demo User	
LRJ-7145	All locations	Allow	2022-08-16 08:54:37 (CDT)	Demo User	
58EV458	All locations	Allow	2022-08-16 09:08:39 (CDT)	Demo User	
82-TPF-9	All locations	Deny	2022-08-17 08:29:02 (CDT)	Demo User	
474	All locations	Watchlist (60 Minutes)	2022-08-26 13:36:51 (CDT)	Demo User	
4*6	All locations	Allow	2022-09-06 12:27:40 (CDT)	Demo User	
GPP8442	All locations	Watchlist (90 Minutes)	2022-09-26 14:20:42 (CDT)	Demo User	
24	All locations	Allow	2022-11-03 15:20:53 (CDT)	Demo User	
PSL0644	All locations	Watchlist (15 Minutes)	2022-10-27 04:36:38 (CDT)	Demo User	

At the bottom of the table, there is a pagination control with a 'Previous' button, page numbers 1 through 5, and a 'Next' button.

- **Allow** – License plates that are allowed to enter the access point. All license plates added to this list will be logged when they enter the area.

- **Deny** – License plates that are denied access to the entry point. Any license plate that is on this list and is detected by the compatible camera will generate an alert, notifying specified users that the plate approached the entry point.
- **Watch** – The watchlist allows for the tracking of a specific plate and keeps track of the time between readings. If the time is outside of a set limit, an alert is generated. The time limit can be specified as 15, 30, 45, 60, 75, 90, 105, or 120 minutes.

An example:

A license plate on the list is detected exiting the lot; this begins a timer and creates an alert in the background (no notification is sent yet).

The timer runs until the license plate is detected again, presumably when it is returning to the lot.

If the time is within a specified limit, the alert will be automatically cleared.

If the time is outside the limit, a notification will be generated by the alert, notifying all those on the account of the vehicle's status.

Or, if the vehicle has not returned by the end of the set time limit, notifications are sent.

RULE PARAMETERS

The following parameters are required to create a new rule. Enter the value for each field, then click **Save** to create the new rule.

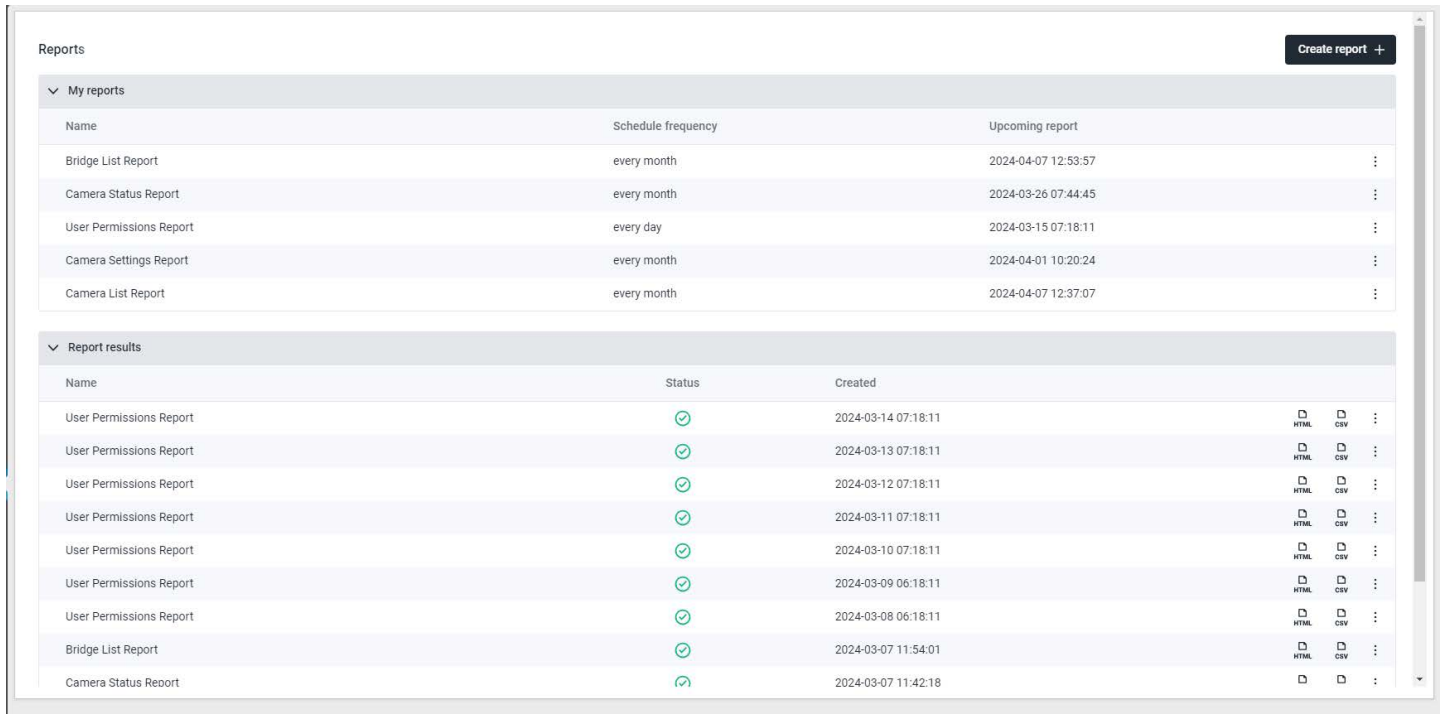
- **License Plate** – This field accepts any alpha-numeric set of characters that pertain to the license plate sought. It is not case-sensitive and will work with any number of characters, allowing for partial or specific plates to be added. Only one entry can be made at a time. Do not include spaces in the search parameters.
- **Location** – Use this field to specify a specific named location to search. This will show results from any compatible camera at that location. This requires the location to have been configured in the camera's settings within the VMS. Alternatively, **Any Location** can be selected to view results from all compatible cameras.
- **Type** – This can be set as **Allow**, **Deny**, or **Watch** as described in [Alert Parameters](#).
- **Recipients** – This field defines which users are notified when the rule is triggered.

A list of all rules on the account is also displayed on the VSP Rules page. This table shows the license plate, location, type, when the rule was created, recipients, and any action required. Use the **List** field to dictate how many rules are shown per page.

Reports

You can create various reports in the VMS and download them as HTML or CSV files. See [Figure 131](#).

Figure 131. Reports



The screenshot displays a web interface for managing reports. At the top right, there is a 'Create report +' button. The interface is divided into two main sections: 'My reports' and 'Report results'.

My reports

Name	Schedule frequency	Upcoming report	
Bridge List Report	every month	2024-04-07 12:53:57	⋮
Camera Status Report	every month	2024-03-26 07:44:45	⋮
User Permissions Report	every day	2024-03-15 07:18:11	⋮
Camera Settings Report	every month	2024-04-01 10:20:24	⋮
Camera List Report	every month	2024-04-07 12:37:07	⋮


Report results

Name	Status	Created	HTML	CSV	
User Permissions Report	✓	2024-03-14 07:18:11	📄	📄	⋮
User Permissions Report	✓	2024-03-13 07:18:11	📄	📄	⋮
User Permissions Report	✓	2024-03-12 07:18:11	📄	📄	⋮
User Permissions Report	✓	2024-03-11 07:18:11	📄	📄	⋮
User Permissions Report	✓	2024-03-10 07:18:11	📄	📄	⋮
User Permissions Report	✓	2024-03-09 06:18:11	📄	📄	⋮
User Permissions Report	✓	2024-03-08 06:18:11	📄	📄	⋮
Bridge List Report	✓	2024-03-07 11:54:01	📄	📄	⋮
Camera Status Report	✓	2024-03-07 11:42:18	📄	📄	⋮

Viewing Reports

The **My Reports** section provides a list of all the user-created reports to be run on the VMS. This section has three descriptive (non-editable) fields:


- **Name:** The name of the report.
- **Schedule Frequency:** The frequency the report will be run. This can be set to every day, every week, or every month.
- **Upcoming Report:** The next date and time that the report will be run.

Click the three dots icon  on the right side of the section to access the following controls:

- **Edit:** Click to change the report settings.
- **Run Now:** Click to run the report immediately.
- **Delete:** Click to delete the report.

Report Results

This section contains the results of the reports that have been run on the system.

- **Name:** The name of the report.
- **Status:** A green check mark  indicates that the report ran successfully. A red **X** indicates that the report failed to run.
- **Created:** The date and time that the report was created.
- **Delete:** Click to delete the report results.

Reports are available for download as HTML or CSV files.

Note: Fields are occasionally missing from the report results due to API inconsistencies.

Creating Reports

To create a new report, click the **Create Reports** button in the top right of the Reports window. The available report settings are:

- **Report Template:** Select one of the following Report Templates:
 - **User Permissions Report:** Contains a list of users and their permissions inside the VMS.
 - **Camera Status Report:** Contains the status information for each camera, including the serial number and whether the camera is online or offline.
 - **Camera List Report:** Contains a list of all the cameras on the system, each camera's MAC address and firmware version. This report is used for inventory purposes.
 - **Bridge Status Report:** Contains the status information for each bridge, including the serial number and whether the bridge is online or offline.
 - **Bridge List Report:** Contains a list of all the bridges on the system, each bridge's MAC address, and how many cameras are attached to the bridge.
- **Report Name:** Enter a name for the report that will appear on the main Reports window.

- **Schedule Report:** Toggle this switch to **On** if you want to schedule a report. If you want to schedule a reports, enter the following:
 - **Start Day:** Enter the day to start the report schedule.
 - **Start Time:** Enter the time to start the report.
 - **Frequency:** Enter the frequency to run the report: Daily, Weekly, or Monthly.

Choose **Cancel** to close the window without making any changes or **Create Report** to save the new report.

Editing Reports

Use the settings described below to edit a report.

- **Report Template:** Displays the report template type.

Note: You cannot edit the report templates. The list below provides descriptions of the available report templates.

 - **User Permissions Report:** Contains a list of users and their permissions inside the VMS.
 - **Camera Status Report:** Contains the status information for each camera, including the serial number and whether the camera is online or offline.
 - **Camera List Report:** Contains a list of all the cameras on the system, each camera's MAC address and firmware version. This report is used for inventory purposes.
 - **Bridge Status Report:** Contains the status information for each bridge, including the serial number and whether the bridge is online or offline.
 - **Bridge List Report:** Contains a list of all the bridges on the system, each bridge's MAC address, and how many cameras are attached to the bridge.
- **Report Name:** Enter a new name for the report that will appear on the main **Reports** window.
- **Schedule Report:** Toggle this switch to On if you want to schedule a report. If you want to schedule a reports, enter the following:
 - **Start Day:** Enter the day to start the report schedule.
 - **Start Time:** Enter the time to start the report.
 - **Frequency:** Enter the frequency to run the report: Daily, Weekly, or Monthly.

Choose **Cancel** to close the window without making any changes or **Update Report** to save the new report settings.

Adding Bridges/CMVRs

End users should not have to add bridges or CMVRs to a VMS account. This section is for Resellers or administrators

Before adding bridges/CMVRs, complete the following steps:

- Install all necessary hardware and connect everything to your network.
- Set up your login information and grant access to other users.

For more information, see the [Getting Started](#) and [Adding New Users](#) sections of this guide.

Bridge/CMVR Actions

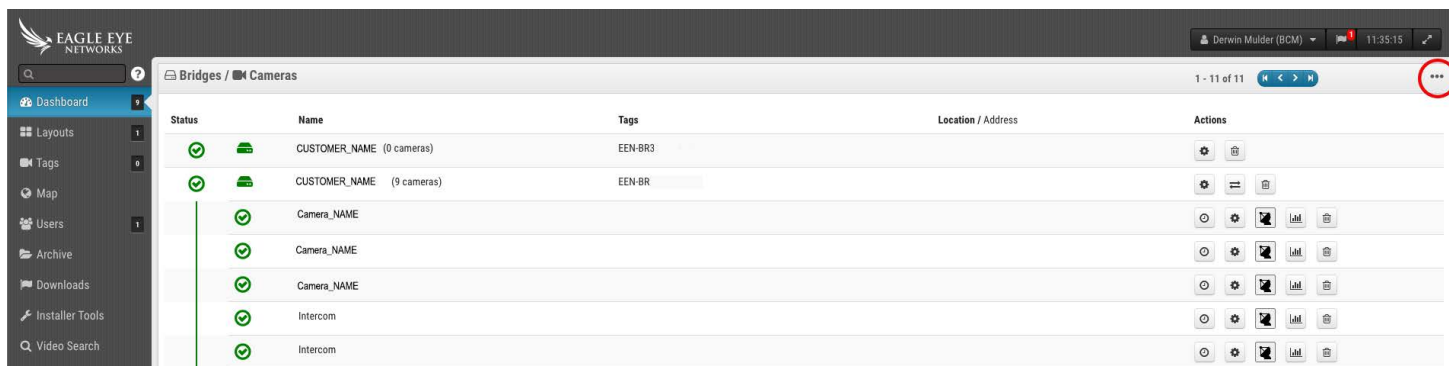
ATTACHING BRIDGES/CMVRs TO THE ACCOUNT

Note: A bridge or CMVR must be attached to your Eagle Eye Networks account before you can add cameras, record video, or perform any functions.

To attach a bridge or CMVR:

1. Select **Dashboard** from the left pane.
2. Click the ellipses icon **...** in the top-right corner of the **Bridges/Cameras** section. See [Figure 132](#).

Figure 132. Attaching a Bridge



3. Enter the **AttachID** and name the bridge.

Note: The **AttachID** is listed on an insert that arrived with the bridge. If you have a “+” model bridge, you can also find the **AttachID** using the LCD display.

Tip: The **AttachID** can be typed with or without the dashes.

Note: Naming the bridge is for your convenience. We recommend using a bridge name that refers to its location and follows a standard naming convention.

4. Click **Add Bridge** to complete the process.

FINDING YOUR ATTACHID

Your **AttachID** insert should be taped to the unit and have a QR code. If you cannot find your **AttachID** insert and are not using a “+” model bridge, contact [support](#) to recover the AttachID.

Alternatively, attach a monitor and keyboard to your Bridge.

1. Plug in the monitor using the HDMI port. Refer to the bridge [data sheet](#) for more information.
2. Plug in a keyboard to the USB port.
3. Log in to the bridge.

Note: The login credentials are typically the username “admin”, and the last 5 or 6 digits of the bridge’s serial number as the password. Try the digits in reversed order if they do not work initially.

Result: After logging in, the AttachID is available on the bridge’s user interface.

CONFIGURING BRIDGE SETTINGS


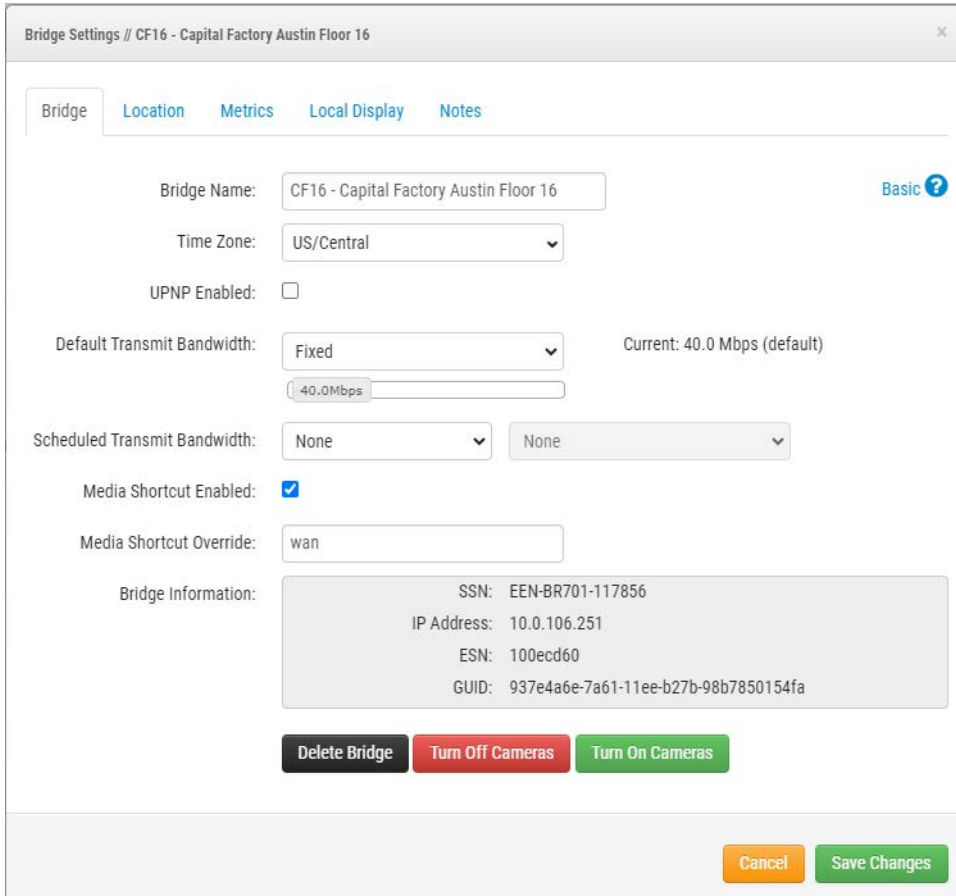
Once a bridge is attached to the VMS, you can configure its settings. Click the gear icon  next to the bridge's name on the Dashboard to open the Bridge Settings window. See [Figure 133](#).

Figure 133. Accessing Bridge Settings



Bridge Settings // CF16 - Capital Factory Austin Floor 16

Bridge Location Metrics Local Display Notes

Bridge Name: CF16 - Capital Factory Austin Floor 16 Basic ?

Time Zone: US/Central

UPNP Enabled:

Default Transmit Bandwidth: Fixed Current: 40.0 Mbps (default)
40.0Mbps

Scheduled Transmit Bandwidth: None None

Media Shortcut Enabled:

Media Shortcut Override: wan

Bridge Information:

SSN: EEN-BR701-117856
IP Address: 10.0.106.251
ESN: 100ecd60
GUID: 937e4a6e-7a61-11e1-b27b-98b7850154fa

Delete Bridge Turn Off Cameras Turn On Cameras

Cancel Save Changes

You can adjust the settings as follows:

Bridge Name: Set the name for the bridge that is displayed in the dashboard.

Time Zone: Set this to the time zone where the bridge is located. Changing the time zone here will also change the time zone for cameras attached to this bridge.

Video Standard: Used for Analog inputs: NTSC or PAL.

UPNP Enabled: Some cameras require Universal Plug and Play in order to be discovered. Only enable if your cameras require UPNP. All UPNP devices will show under available cameras when enabled.

Default Transmit Bandwidth: This is the rate that the bridge will transmit Full Video Recording (not preview) to the cloud. This is the Background Transmit mode found in Camera Settings on the Resolution tab under Full Video Recording. By default, the bridge will use up to 30% of the available throughput bandwidth measured to the cloud. It is important to set this to a value high enough to transmit all video prior to purging. We recommend all video to be transmitted (synchronized) to the cloud within two days. Check bridge metrics for a 7-day graph of bandwidth and disk space used and adjust as needed.

The drop-down menu for Default Transmit Bandwidth has four choices:

- **% of Available:** Set the percentage of available bandwidth to use as the transmit bandwidth.
- **Fixed:** Set a fixed rate for the transmit bandwidth in mbps (megabits per second). This is the rate that the bridge will transmit full video to the cloud.
- **Minimum bw Mode:** This mode overrides any preview transmit settings of cameras and puts the bridge into 'on demand' only mode. Bandwidth will only be used when a user views layouts, views historic video, or when an image is transmitted as a result of an alert.
- **Maximum bw Mode:** The bridge will use the maximum amount it possibly can to transmit video to the cloud. Use this option if the bridge is about to purge to allow it to catch up, or if you want to make sure that all video is synchronized daily. Monitor the bridge metrics to ensure all video is synchronized to the cloud.

Slider for % of available or fixed transmit rate - the slider can be adjusted by clicking on it and dragging left and right with the mouse. For more granular control, after clicking the left and right arrow keys on the keyboard can be used to make adjustments.

Scheduled Transmit Bandwidth: video can be transmitted to the cloud on a schedule to minimize bandwidth use during business hours. The schedule and transmission can be set. Outside of this schedule, the default transmit bandwidth setting will be used. For example, if the default transmit bandwidth is 2 mbps, the bridge will use up to 2 mbps of bandwidth except during a scheduled transmit time, if a schedule is set.

The Scheduled Transmit Bandwidth drop-down has four choices:

- **None:** Only the default transmit bandwidth is used.
- **Work Hours:** The work hours entered in Account Settings on the Days tab is used for the scheduled transmit.
- **Non-work Hours:** The opposite of the works hours set in Account Settings on the Days tab is used for the scheduled transmit.
- **Custom:** Custom hours are set using a slider. The time set on the left is the start time of the schedule. The time set on the right is the stop time of the schedule. Custom time is daily

Based on the default transmit settings, the slider for scheduled transmit rate will show fixed rate in mbps (megabits per second) or % of the available upload bandwidth. The choice on which to use for both sliders is made under default transmit settings. The scheduled transmit rate only appears if a schedule is selected.

Bridge Information: Displays the SSN, IP address, ESN, GUID, and other information about the bridge.

Delete Bridge: Press this to delete a bridge. You may delete a bridge only when no cameras are connected to it.

Turn off Cameras: Press this to turn off all cameras connected to the bridge. This does not turn off power, but turns off recording. No video is recorded when cameras are turned off.

Turn on Cameras: Press this to turn on all cameras that are off. This is not power. Cameras that are off do not record. This will turn cameras on and record video based on each camera's settings.

ADVANCED SETTINGS

Media Shortcut Enabled: Media Shortcut is powered by QL Stream and provides enhanced local viewing of video content when accessing the VMS from the same local network as the bridge. This provides access to video playback, full video live view, and layout preview video without requiring data transmission via the Cloud. This feature is accessible only from the local network to which the bridge or CMVR is connected via the WAN. Use of Media Shortcut allows for improved load times, increased viewing quality, and reduced latency.

Media Shortcut Override: The Media Shortcut Override is used when applying Media Shortcut across mapped virtual local area networks (VLANs). The Override's default is the detected network assigned by the network DHCP services.

BRIDGE SETTINGS: LOCATION

Locations serve as a grouping method for your cameras and devices, allowing you quick-looks at cameras at that location, as well as dynamic filtering around location and viewing your cameras on the map.

The location (including address) is mandatory, and any cameras added to the bridge/CMVR will automatically inherit the bridge/CMVR location. The additional fields (coordinates, floor, notes) are optional, but can be useful in the map and dynamic filtering.

Use the selections in the Bridge **Settings > Location** window to add details about the bridge's location. See [Figure 134](#).

Figure 134. Bridge Settings: Location

Bridge Settings // CF16 - Capital Factory Austin Floor 16

Bridge Location Metrics Local Display Notes

Location Name: Capital Factory (Austin) + ?

Street Address: 701 Brazos St

City: Austin State / Province / Region: TX

Country: US ZIP / Postal Code: 78701

Location Type: Please select location type of the bridge

Latitude: (-90.0-90.0) Longitude: (-180.0-180.0)

Floor: 16 (number)

Notes:

Cancel Save Changes

Location Name: Select a saved location to add this bridge/CMVR to that location. If this is the first device at a new location, click the yellow plus sign to create a new location.

Street Address: These fields will be automatically populated with the information saved to the location that was selected.

Location Type: You can choose to select one of the predefined location types from the list here. This will let you use the dynamic filter search box to show devices of only that type.

Latitude/Longitude: A way to precisely place your bridge on the map in the VMS. You can enter the coordinates to these fields to have your bridges/CMVRs displayed at their exact location in a building, or useful when the camera isn't located at a specific street address.

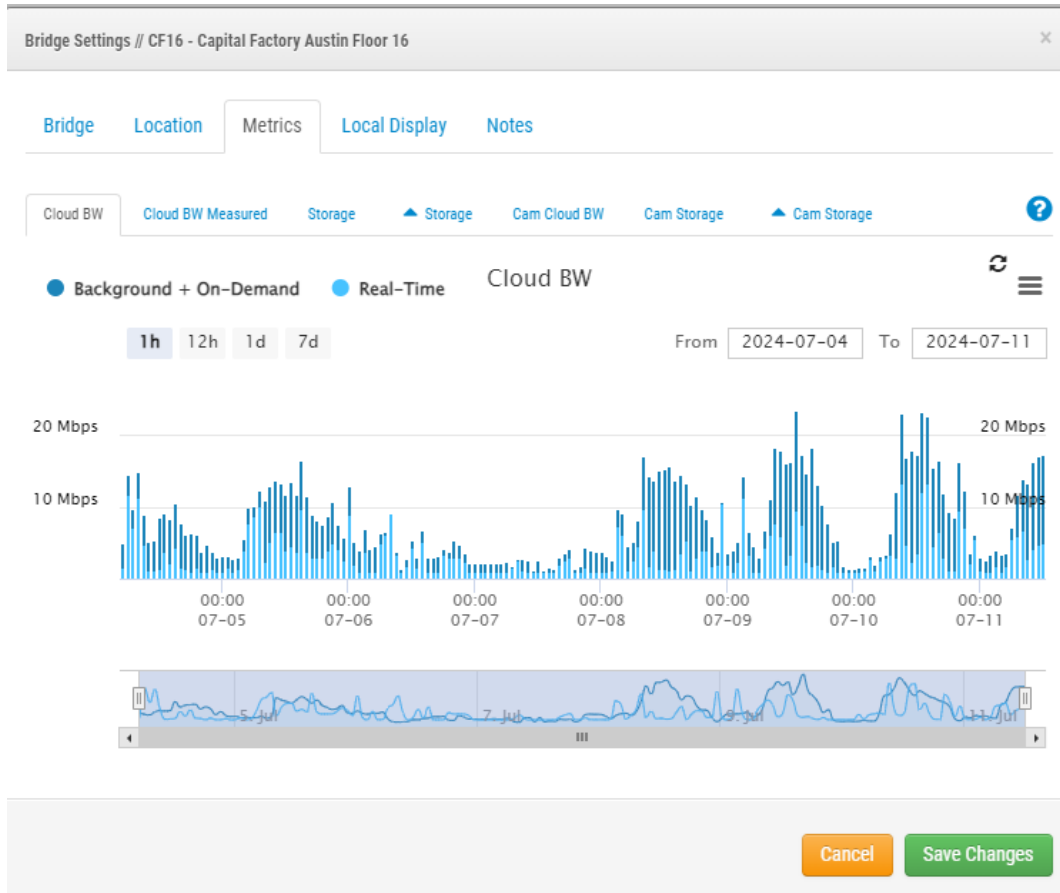
Floor: Enter the floor number for the camera to be able to use dynamic filtering to only show cameras on certain floors.

Notes: Enter any information you might find useful.

BRIDGE SETTINGS: METRICS

Use the selections in the Bridge Settings: Metrics window to view bridge metrics. See [Figure 135](#).

Figure 135. Bridge Settings: Metrics



Cloud BW: The bandwidth used during live viewing and uploading video to the cloud.

Background + On-Demand: The synchronization of video to the cloud as well as the viewing of video that is not yet in the cloud. Real-Time is the preview video that is being transmitted directly to the cloud. Either can be viewed one at a time by clicking directly on the name.

Cloud BW Measured: The bandwidth as measured while sending data from the bridge to the cloud.

Note: This bandwidth might not match the results of a speedtest.

Storage: The space Available and In Use, which is video temporarily buffered prior to synchronizing with the cloud. If video does not get transmitted to the cloud before the Available space is filled, then the oldest day's video will be purged to make room for current video.

Delta Storage: The difference between the video buffered locally and the space freed by synchronizing to the cloud or by purging. Positive represents In Use storage and negative represents successful synchronization to the cloud. Any video that is purged prior to the retention period will show negative in purple. Click on the arrow to the right of "Purge" to view a list of cameras that have purged. Each camera's data is displayed as a different shade of purple. Individual cameras may be enabled and disabled on the graph by clicking the camera name from the list. Press and hold "shift" while clicking on a single camera to view only that camera on the graph. When there are more than 18 cameras listed, the results are paginated. Click the up and down arrows at the bottom of the camera list to navigate the pages.

Cam Cloud BW: The amount of bandwidth used to live view and synchronize video from the bridge to the cloud per camera, displayed as separate colors. Each camera's data may be enabled and disabled on the graph by clicking the camera name from the list on the left. Press and hold "shift" while clicking on a single camera to view only that camera on the graph. When there are more than 18 cameras listed, the results are paginated. Click the up and down arrows at the bottom of the camera list to navigate the pages.

Cam Storage: The amount of video stored per camera locally displayed as separate colors. Each camera's data may be enabled and disabled on the graph by clicking the camera name from the list on the left. Press and hold "shift" while clicking on a single camera to view only that camera on the graph. When there are more than 18 cameras listed, the results are paginated. Click the up and down arrows at the bottom of the camera list to navigate the pages.

Delta Cam Storage: The amount of video stored locally and the space freed by synchronizing to the cloud. Each camera's data may be enabled and disabled on the graph by clicking the camera name from the list on the left. Press and hold "shift" while clicking on a single camera to view only that camera on the graph. When there are more than 18 cameras listed, the results are paginated. Click the up and down arrows at the bottom of the camera list to navigate the pages.

Cancel: Discards any changes and closes Bridge Settings.

Save Changes: Saves the changes and closes Bridge Settings.

LOCAL DISPLAY

Viewing of preview and live video using an external monitor and/or web browser may be enabled. At least one layout must be added for Local Display to work. By default, '(All Cameras)' will be used.

Go to **Bridge Settings > Local Display** to adjust the local display settings on the bridge. See [Figure 136](#).

Figure 136. Bridge Settings: Local Display

Bridge Settings // CF16 - Capital Factory Austin Floor 16

Bridge Location Metrics **Local Display** Notes

Enable QL Stream (RTSP): ?

Local Display via Browser:

Local Display via Monitor:

Layouts Available:

Search

6 Across View Example

CF 16th Floor

Fisheye Cameras

Multi-size Cameras

Add All»

Layouts on Display:

Search

(All Cameras)

«Remove All

Cancel Save Changes

Enable QL Stream (RTSP): Check this box to enable QL Stream (Real Time Streaming Protocol) from Bridge network connections. This setting allows for cameras on the bridge to be streamed in full resolution, and quality over the local network.

Go to **Bridge Settings > Bridge > Bridge Information** for the following:

- a stream URL
- (if enabled) User Authentication information.

Important: This setting can only be enabled/disabled by an account with access to edit Bridge Settings. This feature cannot be set from a Reseller account.

Enable QL Stream Auth: This is enabled by default when QL Stream is requested. With QL Stream Auth enabled, an additional Username and Password is needed to access the RTSP stream, or to use it in another application. If QL

Stream Auth is disabled, the camera stream is available to anyone with access to the streaming URL to watch or use in another application.

Download CSV: Download a CSV file listing all available camera RTSP URLs.

Local Display via Browser: Check this box to enable direct login to the bridge via web browser on LAN (Local Area Network). A valid username and password are required for Local Display via Browser.

Local Display via Monitor: Check this box to enable video output on the bridge's external video connector which depends on the bridge model. (HDMI/VGA/DVI/DDP). If the bridge has multiple output connectors, only one is active at a time.

Layouts Available: Only layouts that contain cameras attached to this bridge can be used for local display. Select one or more layouts by clicking, then drag and drop to the right. Search may be used to narrow down the list. Layouts on the right will be available to view on the local display.

Add All >>: Adds all available layouts to the local display.

<< Remove All: Removes all layouts from the local display.

Cancel: Discards any changes and closes Bridge Settings.

Save Changes: Saves the changes and closes Bridge Settings.

Notes: Local Display keeps each layout's settings for **Show Camera Title Bars** just as they are shown in the Eagle Eye Networks Cloud. If enabled, the name of the camera will be displayed in the black bar above each camera. The '(All Cameras)' layout does not include camera names.

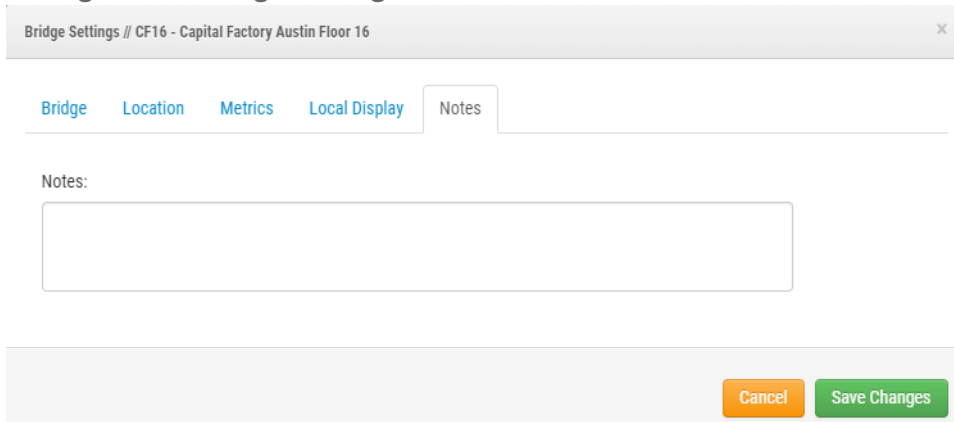
Local Display Keys (via USB keyboard to bridge): The help file is available on the monitor by pressing 'h' using a keyboard.

- Start/Stop audio: S
- Enter full-screen: Space
- Exit full-screen: Space or Esc
- Hide highlight: Esc
- Next/previous layout: Pageup/PageDown
- Select camera: ← ↑ → ↓
- Exit to command: Q
- Help File: H

BRIDGE SETTINGS: NOTES

Use the **Bridge Settings > Notes** window to add any notes about a bridge. See [Figure 137](#).

Figure 137. Bridge Settings: Notes




Bridge Settings // CF16 - Capital Factory Austin Floor 16

Bridge Location Metrics Local Display Notes

Notes:

Cancel Save Changes

DELETING BRIDGES

To delete a bridge from your VMS, click the trash icon  next to the bridge on the **Dashboard**.

Important: This deletes all saved videos from the cameras attached to the bridge. To make sure that users do not delete bridges by accident, all cameras attached to a bridge must be deleted before a bridge can be deleted.

SETTING A BRIDGE'S STATIC IP ADDRESS

To configure a bridge with a static IP address, do the following:

1. Connect a monitor and keyboard to the bridge.
2. Log in to the bridge. The login credentials are the username “admin”, and the last 5 or 6 digits of the bridge’s serial number as the password.
3. In **Local Configuration Utility** choose **Configure Network → WAN**, and fill in all the fields to set the static IP address.

Adding Speakers to the VMS

Similar to cameras, once a bridge has been added to an account, it starts to scan the network for compatible cameras through both the WAN and CamLAN ports of the bridge. When speakers are found, they appear in the **Available Cameras** section.

Important: A speaker is only available if has the same IP scheme as the bridge. Additionally, a speaker must have ONVIF configured or the bridge will be unable to find the device.

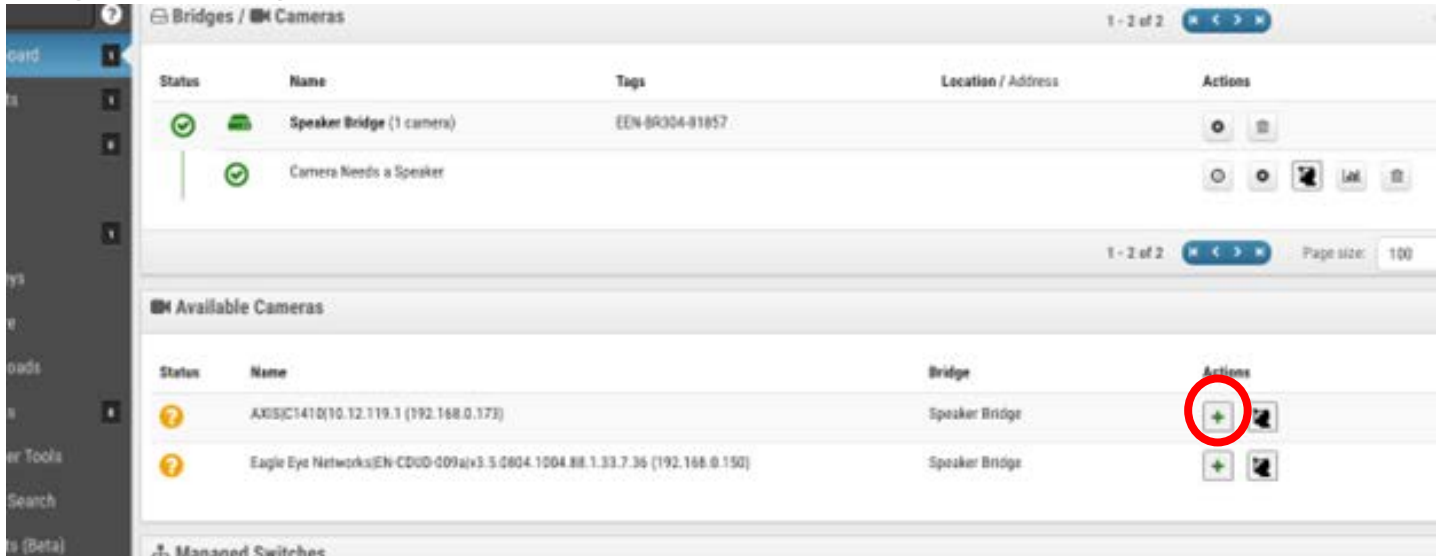
Important: Speakers must be supported by the VMS, and be capable of SIP communication, and if 2-Way audio is needed, the speaker must support Full Duplex audio.

Adding an Available Speaker

To add an available speaker, and associate it with a camera, or multiple cameras:

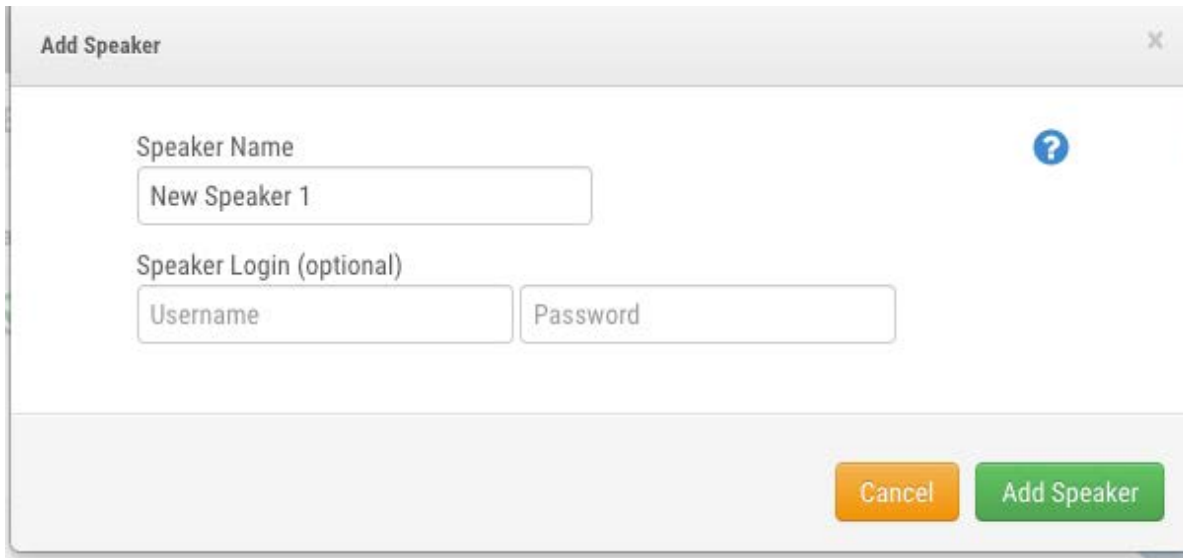
1. Click the green plus icon to the right of the speaker name. See [Figure 138](#).

Figure 138. Adding a Speaker to the VMS



2. This opens a dialog box where you can adjust the speaker's initial settings. The Username and Password are not required. Click **Add Speaker** when you are done. See [Figure 139](#).

Figure 139. Adjusting Speaking Settings in the VMS



The screenshot shows a dialog box titled "Add Speaker" with a close button (X) in the top right corner. It contains the following fields:

- Speaker Name:** A text input field containing "New Speaker 1". A blue question mark icon is located to the right of this field.
- Speaker Login (optional):** Two adjacent text input fields labeled "Username" and "Password".

At the bottom right of the dialog box, there are two buttons: an orange "Cancel" button and a green "Add Speaker" button.

Associating a Speaker with a Camera

To associate a speaker with a camera in the VMS:

1. Once the speaker is showing as online in the Dashboard, click the gear icon to the right of the speaker name under actions. See [Figure 140](#).

Figure 140. Adjusting Speaker Settings



2. This opens a dialog box where you can adjust the speaker's settings. Click the **Audio** tab to the right of **Device** above the speaker name. See [Figure 141](#).

Figure 141. Accessing the Audio in Speaker Settings

Speaker Settings // New Speaker 1

Device: Audio

Speaker Name: New Speaker 1

Connect to Bridge: Speaker Bridge

Notes:

Speaker Information:

Manufacturer: AXIS
Model: C1410
IP Address: 192.168.0.173
ESN: 100e89d5
GUID: f89dedc5-b9da-43b9-85d6-7b16b53b2242

Delete Speaker

Cancel Save Changes

3. Inside the **Audio** section, you will see a list of available cameras that the speaker can be associated with. You can choose **Add All** at the bottom to link all cameras to the speaker. See [Figure 142](#).

Figure 142. Viewing Available Cameras for a Speaker

Speaker Settings // New Speaker 1

Device: Audio

Audio Mode: 2-Way Audio

SIP Username/Password: sipuser SIP Password

Speaker Login: root Speaker Password: ****

Link the speaker to a camera or cameras.

Unlinked

Search

Camera Needs a Speaker

Add All

Linked

Search

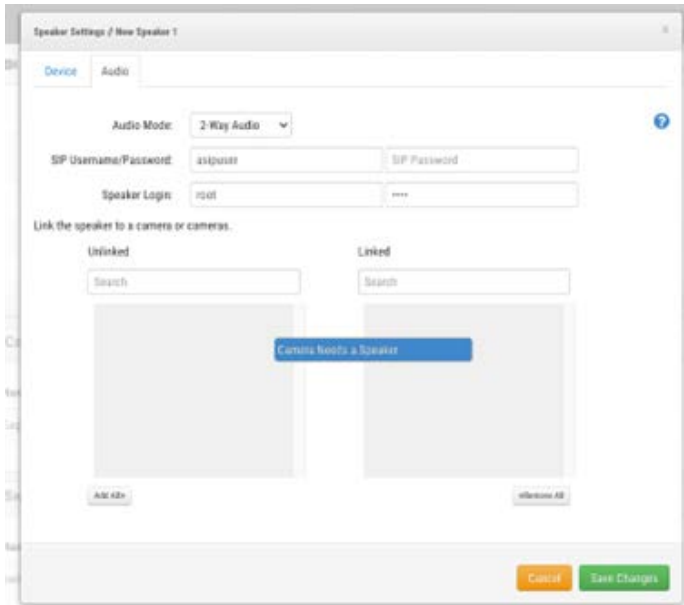
Add All

Cancel Save Changes

Note: SIP Username/Password and Speaker Login details are not required for Talk Down.

- Alternately, drag and drop cameras you want to link from the **Unlinked** box to the **Linked** box. See [Figure 143](#).

Figure 143. Linking Unlinked Cameras



- Review the settings and make adjustments as necessary.
- Inside the **Audio** menu for the speaker, there are three settings for **Audio Mode**.
 - Disabled:** This disables audio for the device. The speaker is no longer active but still is an available device in the Dashboard. It appears offline, and camera linking no longer appears next to the linked cameras.
 - Talk Down:** This enables the operator to talk through the speaker (half duplex), but if the device is capable of Two-Way Audio, the microphone on the speaker is not active.

- **2-Way Audio:** This setting enables 2-way full duplex audio for the speaker, allowing the user to speak through and receive audio through the speaker's built-in microphone.
See [Figure 144](#).

Figure 144. Selecting an Audio Mode

Speaker Settings // New Speaker 1

Device Audio

Audio Mode: Disabled Talk Down 2-Way Audio

SIP Username/Password:

Speaker Login:

Important: The VMS also supports some cameras that have built in 2-Way Audio features. The only difference with their setup is that the settings for 2-Way Audio are in the Camera Settings, under the **Audio** tab. See [Figure 145](#).

Figure 145. Adjusting Settings on a Camera with Built-in 2-way Audio

Camera Settings // M73

Camera Retention Resolution Motion Analytics MOBOTIX Motion MOBOTIX Messaging Audio Location

Metrics Maintenance

Audio Enabled:

Copy Audio To: None selected

2-Way Audio Settings

Audio Mode: 2-Way Audio

SIP Username/Password: peer-to-peer SIP Password

Link the speaker to a camera or cameras.

Unlinked

Search

- Dahua HFW-4431T
- EEN Cam 1 (EN-CDUD-009a)
- M16
- Move Mx-VD1A-8-IR-VA (Dome)
- Move Mx-VH1A-12-IR-VA (Fisheye)

Linked

Search

- M73

Cancel Save Changes

Using Speakers in the VMS

Once cameras are associated with a speaker, you can use the speaker while viewing the live stream of an associated camera. Audio communication through the speaker relies on the user who initiated the communication. Typically, the user accesses the VMS through a browser window. If so, as long as the computer has speakers and a microphone, 2-Way audio is possible, although users must grant permission to use the microphone if prompted. Mobile devices also support 2-way audio using their built-in speakers and microphones. Advanced means of communication should be discussed with a VMS reseller.

To use speakers in the VMS:


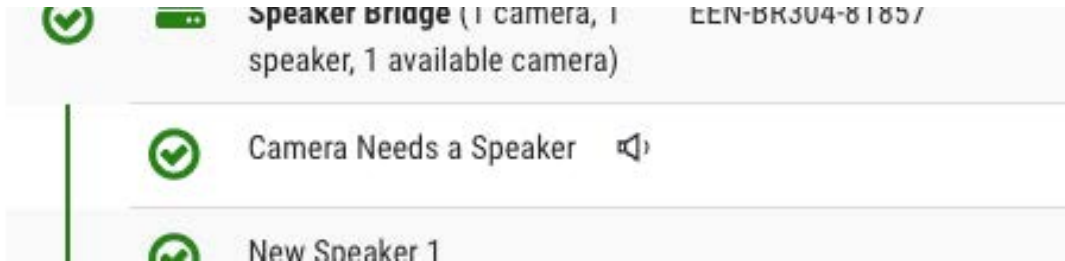
1. All cameras with associated speakers have a speaker icon  next to their name in the VMS. See [Figure 146](#).

Figure 146. Confirming a Speaker is Associated with a Camera in the VMS




2. From the camera's Live View, there is a microphone icon  on the bottom of the icons on the left side. This microphone icon is specific to the Talk Down and 2-Way audio feature and should not be confused with the speaker icon that indicates built in camera microphones.
Click the microphone icon to initiate the speaker, and click the microphone icon again to terminate the connection. See [Figure 147](#).

Figure 147. Initiating a Speaker




3. After clicking the microphone icon to initiate audio, the connection takes a moment, indicated by a spinning wheel icon . See

Figure 148. Waiting for an Audio Connection




4. Once the speaker is initiated, the microphone icon will be highlighted , indicating active communication. See [Figure 149](#).

Figure 149. Confirming Audio Connection is Active

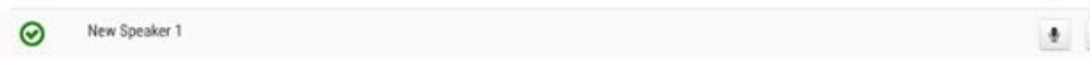


Calling a Speaker Directly from the VMS

To call a speaker directly from the VMS:

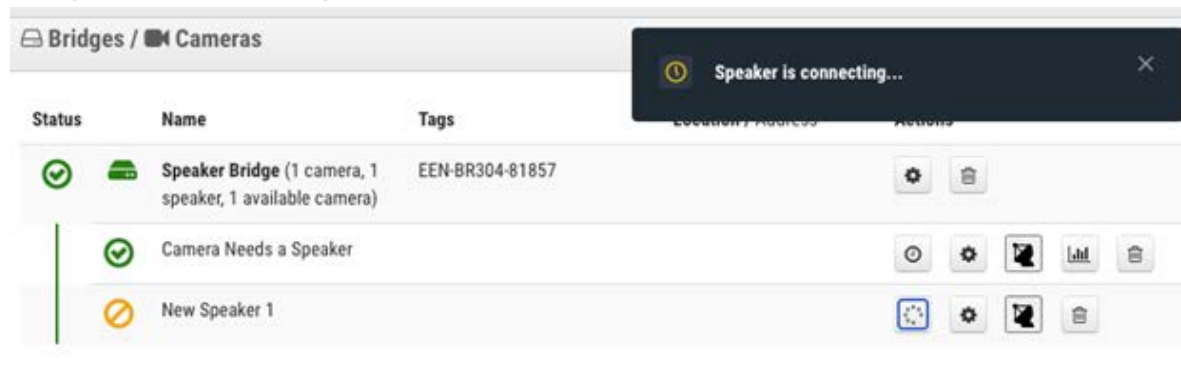
1. From the Dashboard, find the speaker you wish to use, and click the microphone icon . See [Figure 150](#).

Figure 150. Calling a Speaker Directly from the VMS



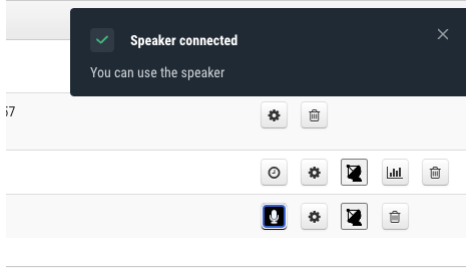
2. Click the speaker to initiate the connection. On the VMS page in your browser window, pop-ups appear that indicate the connection is starting and the connection is active. Clicking the icon again to terminate the connection causes another pop-up window to appear confirming the connection is terminated. While the connection is in progress, the speaker is not available to any other users, which is indicated by the yellow crossed circle next to the speaker name. See [Figure 151](#).

Figure 151. Connecting a Speaker in the VMS



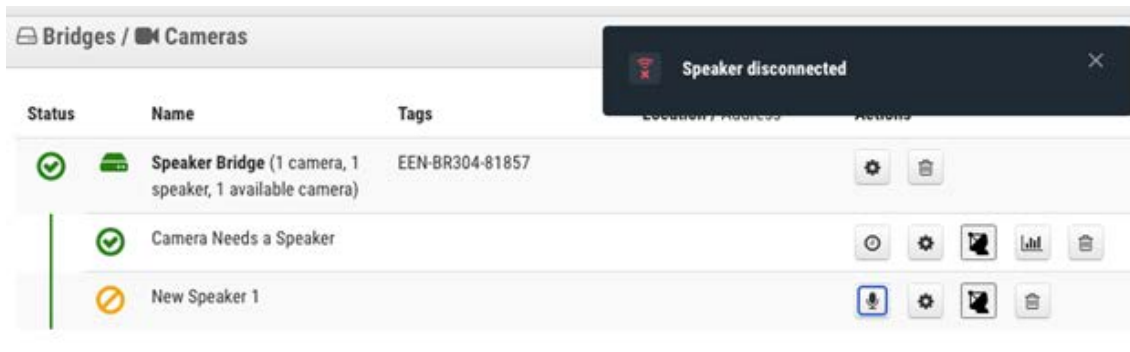
3. A pop-window confirms when a speaker is connected. See [Figure 152](#).

Figure 152. Confirming a Speaker Connection in the VMS



4. After disconnecting a speaker, a pop-window appears confirming this. See [Figure 153](#).

Figure 153. Disconnecting a Speaker in the VMS



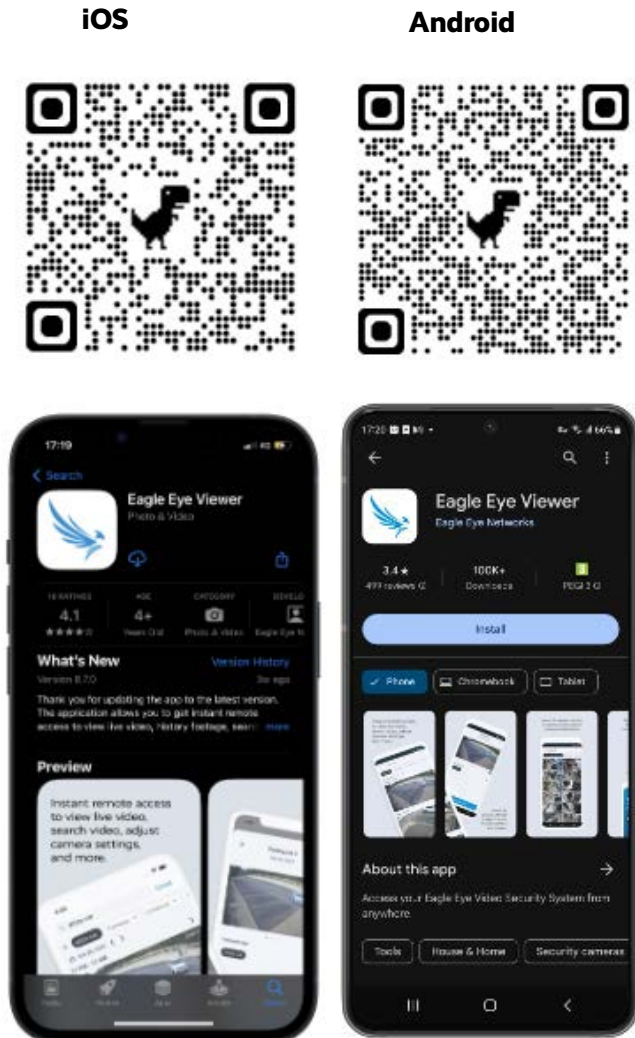
Using the Eagle Eye Viewer Application

To use the Eagle Eye Networks Cloud VMS platform from a mobile device, download the **Eagle Eye Viewer** from the Google Play store for Android devices or the Apple App Store for iOS devices.

Downloading the Eagle Eye Viewer Application

To access the Eagle Eye View mobile application, click the QR code for your type of mobile device. See [Figure 154](#).

Figure 154. Accessing the Eagle Eye View Mobile Application



Download the Eagle Eye Viewer to your mobile device.

Logging in to the Eagle Eye Viewer

Before using the Eagle Eye Viewer, users must configure a password within Eagle Eye Networks Cloud VMS web interface. This authentication method can be secured using MFA (multi-factor authentication) via SMS or email for further security.

After opening the Eagle Eye Viewer, there are two options:

1. Shake your mobile device to enter the demo account. Eagle Eye Networks' demo environment provides a safe place to learn the mobile application functions without impacting a live system.
2. Click **Sign In** to log in to your own account. Enter your email address and password into the authentication system. See [Figure 155](#).

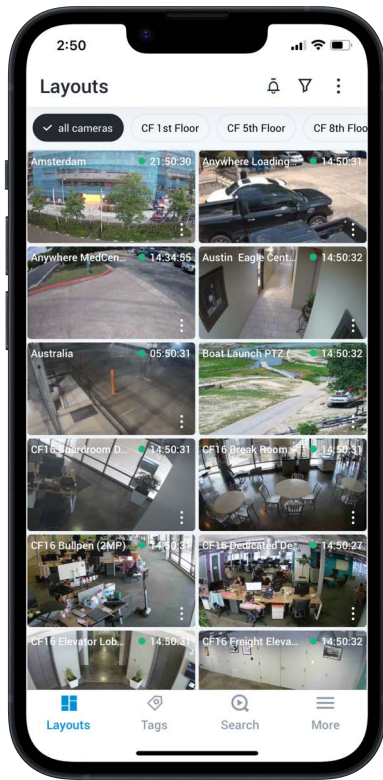
Figure 155. Signing into your Eagle Eye Viewer Account



Using Layouts in the Eagle Eye Viewer

After logging in, the Layouts interface opens. Layouts are a user-configured collection of cameras with access configured on a per user basis. All layouts assigned to your user account can be accessed by touching the name of the layout across the top of the interface. See [Figure 156](#).

Figure 156. Using Layouts on the Eagle Eye Viewer



CREATING A NEW LAYOUT

With the proper user permissions to create layouts, you can create your own custom set of cameras to be displayed in a layout. To create a new layout, do the following:


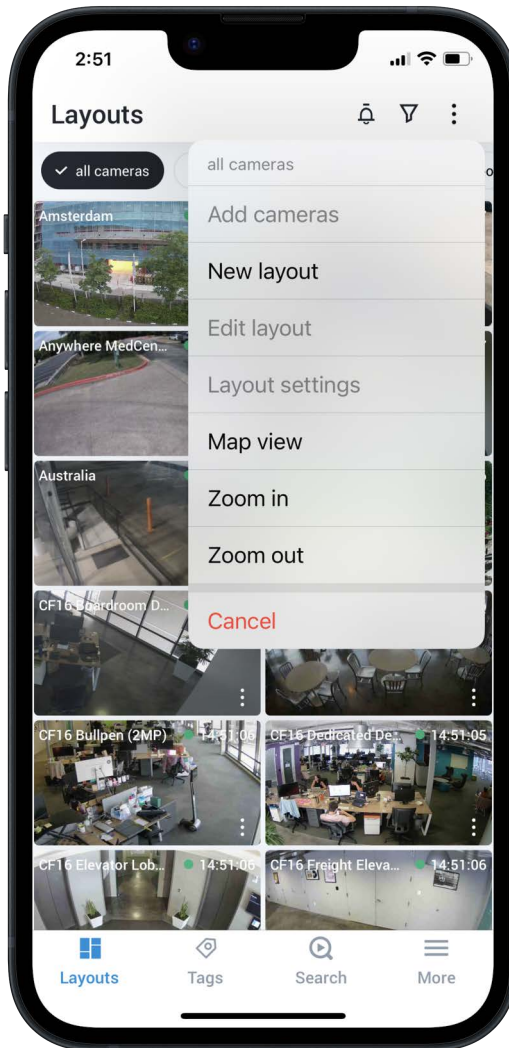
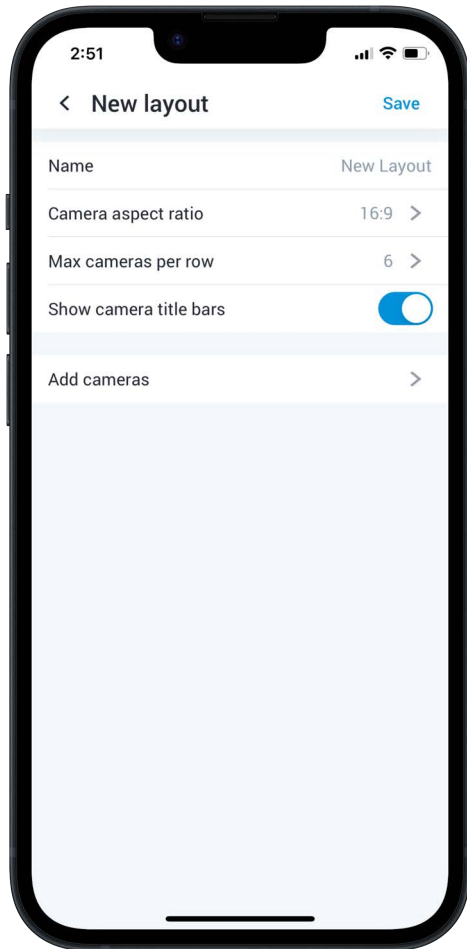
1. Press the three dots icon  at the top right of the screen and select **New Layout**. See [Figure 157](#).

Figure 157. Creating a New Layout in the Eagle Eye Viewer



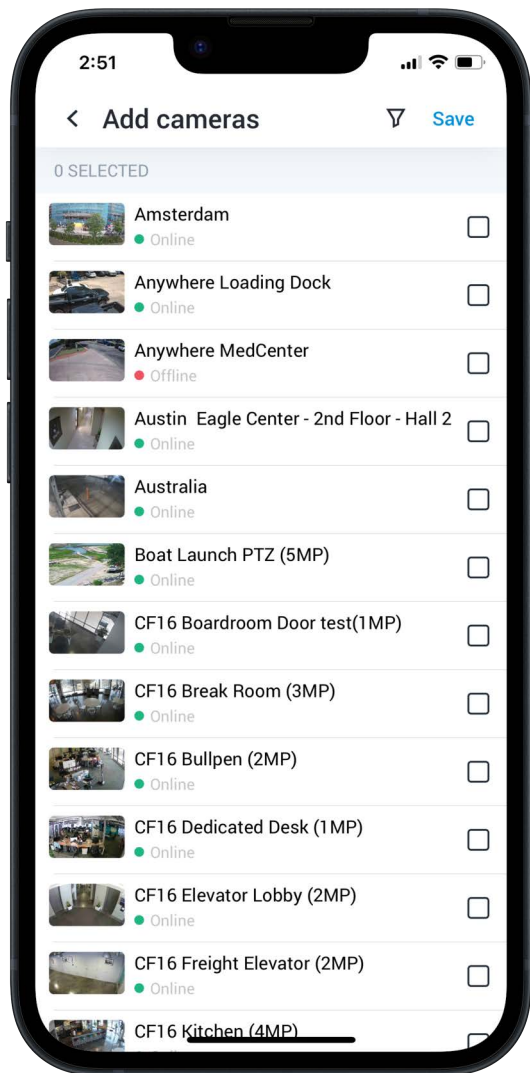
2. Name the layout, choose how many cameras to display in each row, enable or disable the camera title bars, and select **Add Cameras**. See [Figure 158](#).

Figure 158. Selecting Cameras for a New Layout in the Eagle Eye Viewer



3. From the list of available cameras, check the boxes of those you wish to add to the layout, then press Save. See [Figure](#) .

ADDING CAMERAS TO A NEW LAYOUT IN THE EAGLE EYE VIEWER



EDITING A LAYOUT



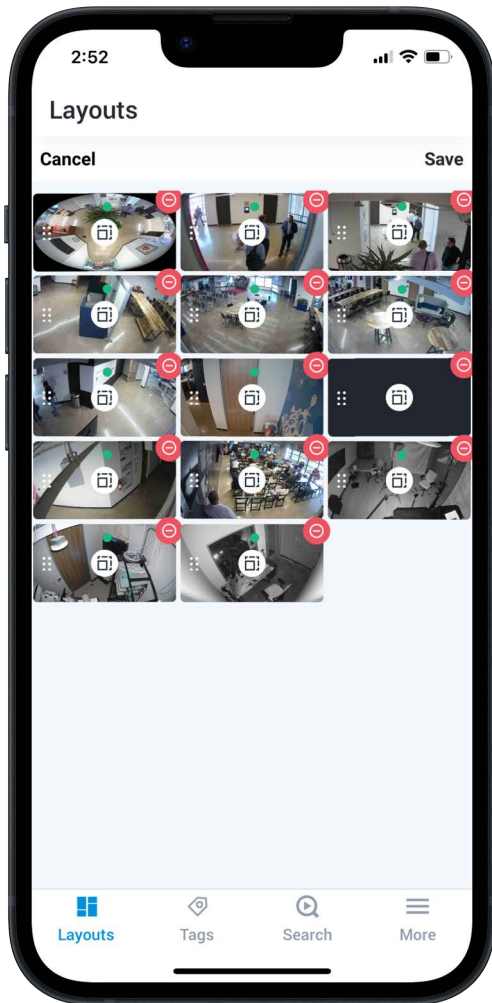
Edit the order of the cameras within the layout by pressing the three dots icon  and selecting **Edit Layout**. In edit mode, a long press on any camera in the layout allows you to drag it to your preferred position within the layout. Remove cameras from the layout by pressing the red delete icon  at the top right of each camera. See [Figure 159](#).

Figure 159. Editing a Layout in the Eagle Eye Viewer



Viewing Live Video in the Eagle Eye Viewer

Cameras viewed within layouts in the Eagle Eye Viewer app are displayed in preview quality, with the video shown at lower resolution and frame rates to minimize the impact of viewing multiple cameras at once on both the mobile

device and the on-site system transmitting the video stream. To view high-quality video for any camera within a layout, press the camera. See [Figure 160](#).

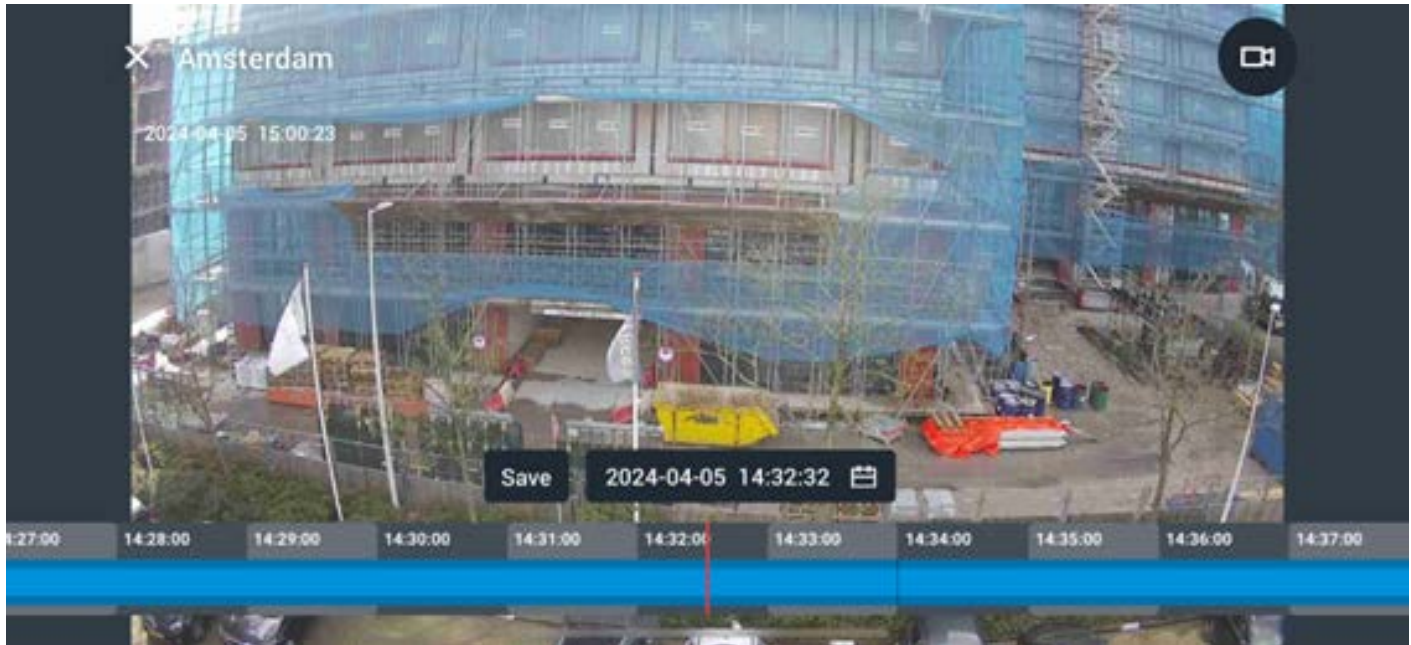
Figure 160. Viewing Live Video in the Eagle Eye Viewer



Accessing Recorded Video

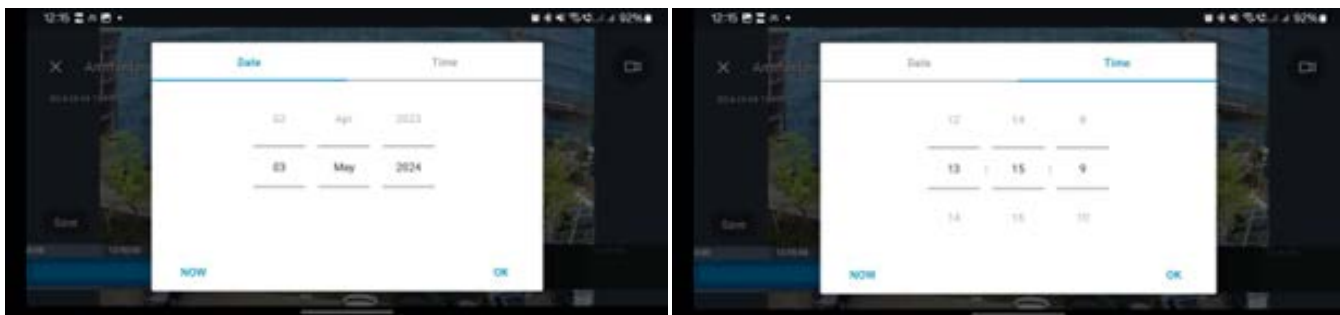
To access recorded video from any camera, press the clock icon in the top right of the live view for the camera to open the history browser. Within the history browser, pressing and dragging on the displayed timeline will allow you to navigate through recently recorded video. See [Figure 160](#).

Opening the History Browser in the Eagle Eye Viewer



If you know the date or time of the recorded video you want to view, press the calendar button shown next to the date and time to enter your desired time. See [Figure 161](#).

Figure 161. Entering the Date and Time of Recorded Video

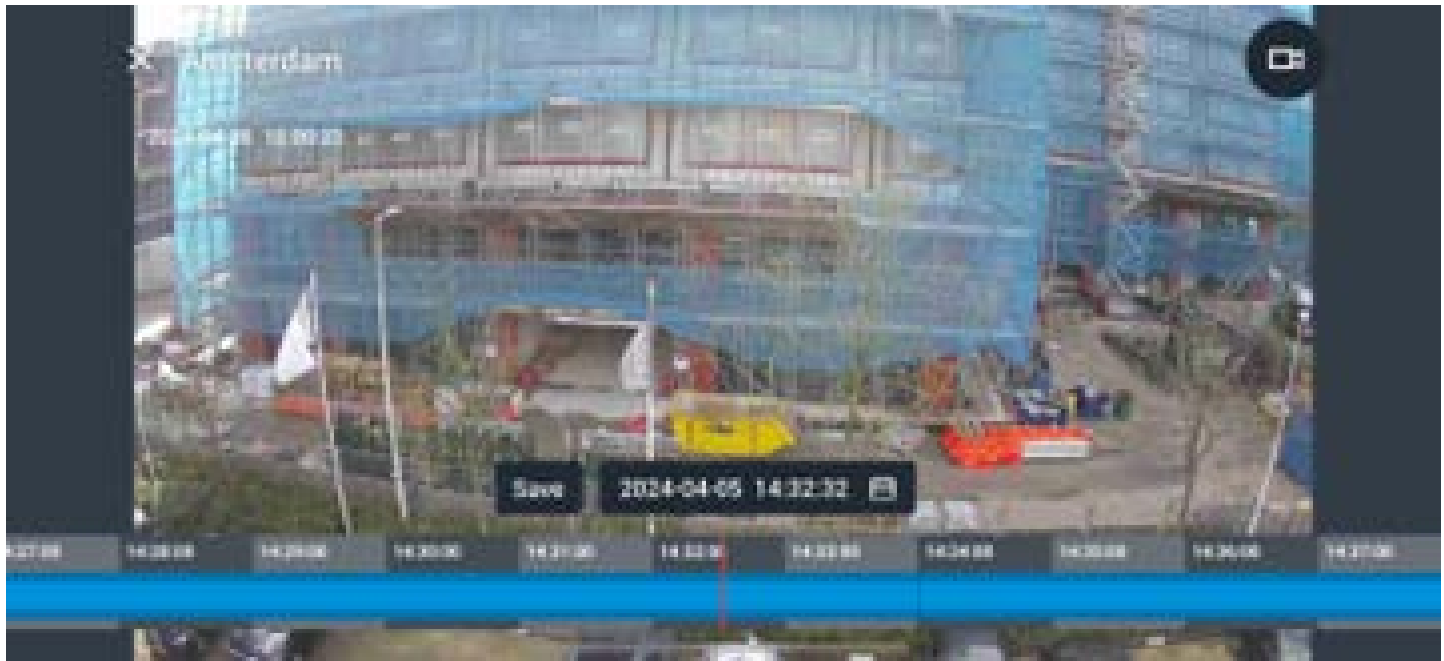


Once the appropriate time has been found on the timeline, press once on the camera view to play the video.

Exporting Video from the Eagle Eye Viewer

To export or save a piece of footage for external sharing, press the **Save** button shown next to the date and time in the History Browser. See [Figure 162](#).

Figure 162. Exporting Video from the Eagle Eye Viewer



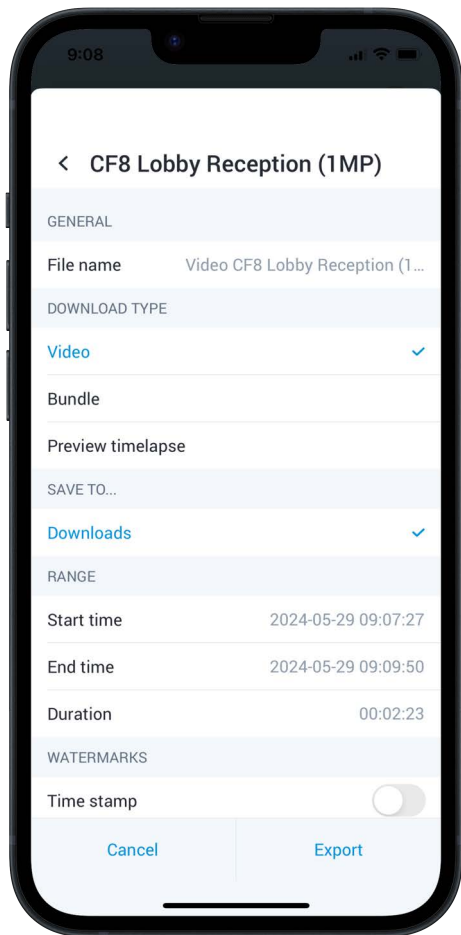
The **Save** interface where you can configure export settings opens. You can configure the following settings:

- **File Name:** Enter a name for the exported video file.
- **Download Type:** Select the format of the exported file.
- **Video:** Show a continuous high quality video of the entire time frame selected.
- **Bundle:** Collect all high-quality and preview video recorded within the specified time range.
- **Preview Timelapse:** Exports the preview quality video for the entire time frame selected.
- **Save To...:** Select where the exported video will be saved to.
- **Start Time:** Select the beginning time for the video clip.
- **End Time:** Select the end time for the video clip.
- **Time Stamp:** Embed the date and time into the exported video clip.

- **Notes:** Include any notes you wish to attach to the video file.

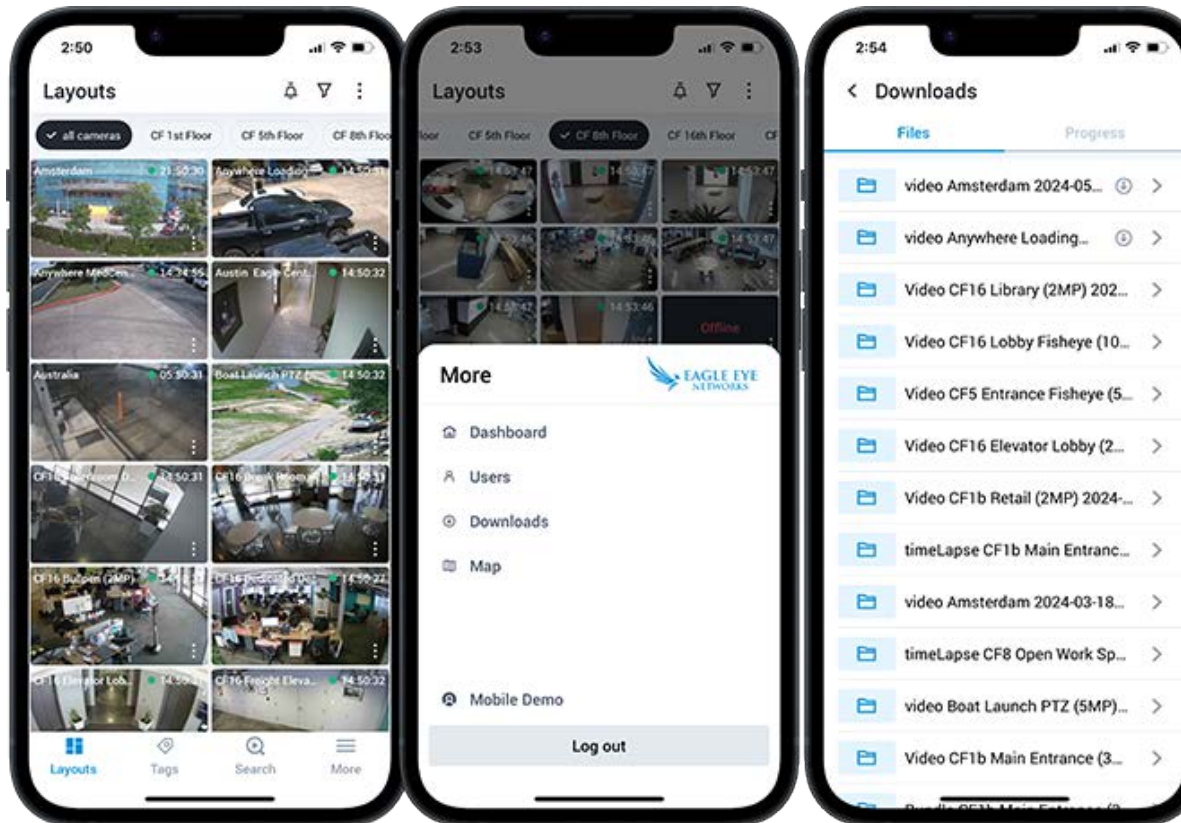
See [Figure 163](#).

Figure 163. Configuring Export Settings in the Eagle Eye Viewer



After entering details, press the **Export** button. The exported video appears in the *Downloads* section of the Eagle Eye Viewer. To access downloaded video, go to **More > Downloads**. See [Figure 164](#) for the workflow.

Figure 164. Accessing Exported Video in the Eagle Eye Viewer

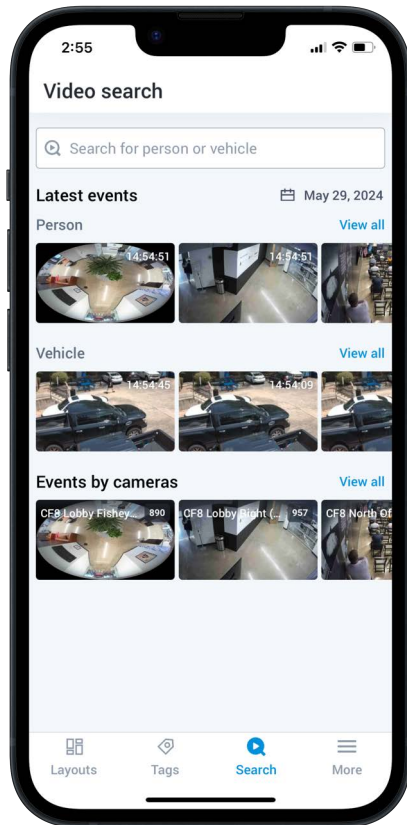


Video Search in Eagle Eye Viewer

Eagle Eye Networks Cloud VMS includes smart video searching functionality to allow its users quick and convenient methods to find video using natural language searches. Eagle Eye Networks' AI engines automatically analyze all recorded video for people, vehicles and objects and certain attributes as described in [Video Search](#).

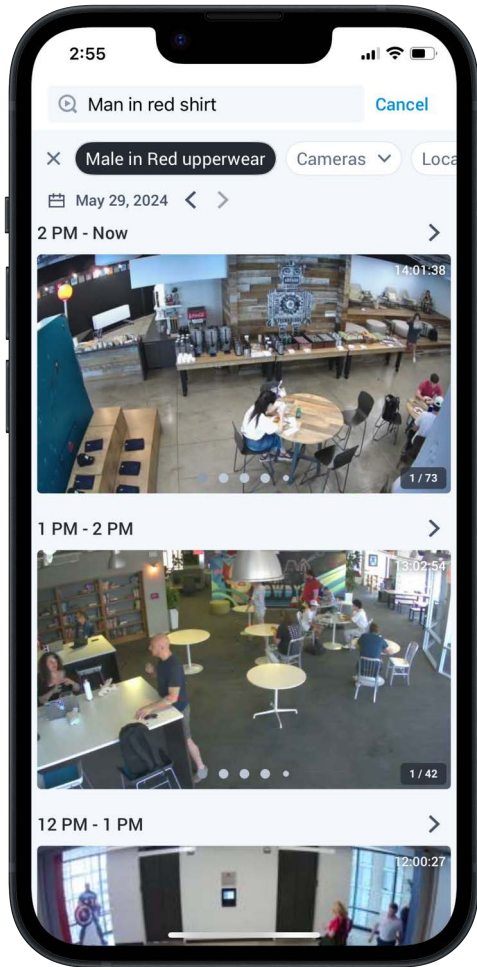
To access the video search functionality within the Eagle Eye Viewer, select **Search** from the bottom of the UI. See [Figure 165](#).

Figure 165. Searching for Video in the Eagle Eye Viewer



Use the search box to enter a description of a person, vehicle, or object. See [Figure 166](#)

Figure 166. Entering Search Terms in the Eagle Eye Viewer




Use the drop-down menus at the top of the search interface to filter the video search to particular cameras, locations, camera tags, or regions of interest. Videos found through Video Search can be viewed in the History Browser and exported as described in [Exporting Video from the Eagle Eye Viewer](#).

Getting Help

How to Get Help with the Cloud VMS

For end users, we suggest first contacting your reseller for support.

Helpful content is available throughout the Eagle Eye Cloud VMS by clicking the question icon .

Support is available to assist you 24 hours a day, 7 days a week, 365 days a year.

To access the support portal, including chat, go to <https://support.een.com/portal/en/home>

For Frequently Asked Questions, go to <https://support.een.com/portal/en/kb/articles/common-support-questions>

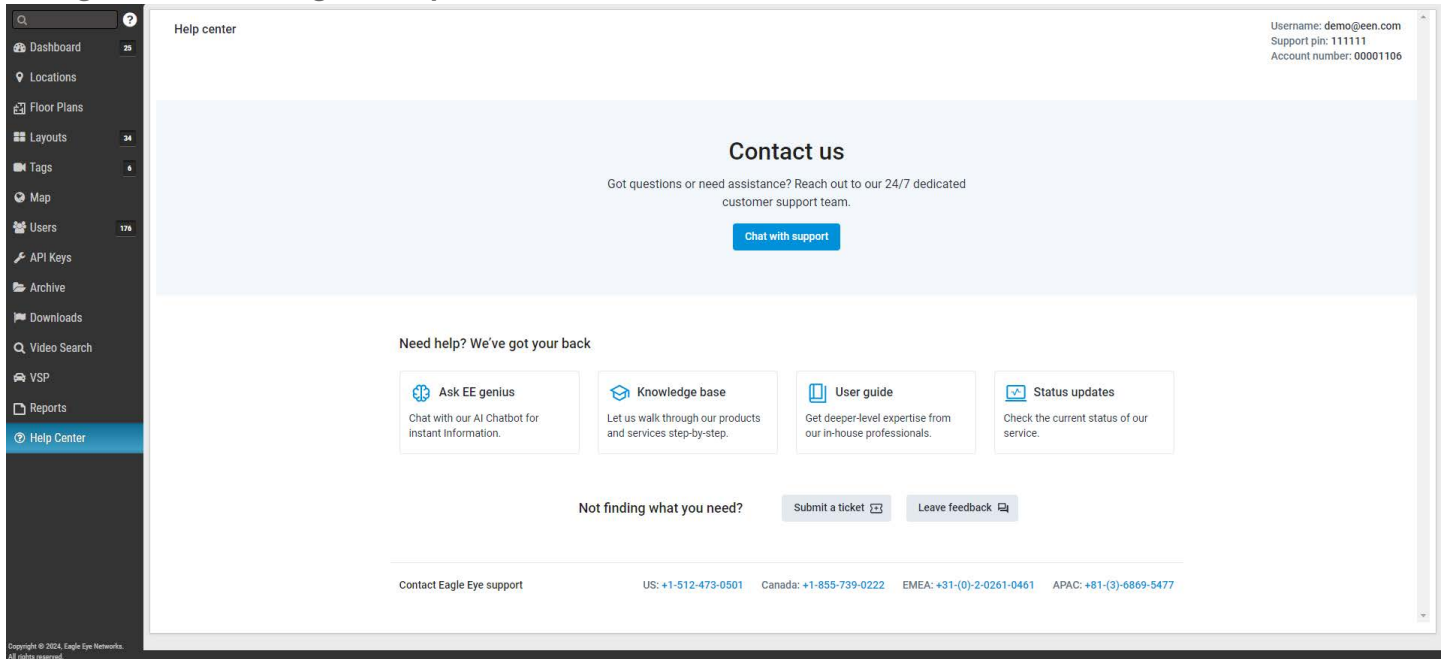
The Support Knowledge Base can be accessed through <https://support.een.com/portal/en/kb>

You can submit a ticket to support through the form on <https://support.een.com/portal/en/newticket>

You can email support at support@een.com.

You can also go to the Help Center in the VMS. See [Figure 167](#).

Figure 167. Accessing the Help Center



For immediate support, please call:

- US: +1-512-473-0501
- EMEA: +31 (0) 20 26 10 460
- APAC: +81-3-6868-5527