FocusAI Dome Camera FD10

User Guide

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About this Document

Purpose

This document describes the installation and usage of the FocusAI Dome Camera FD10.

Declaration

Users are required to comply with applicable laws and regulations for installing and using video surveillance systems in their appropriate jurisdictions. It is forbidden to illegally install and use the cameras outside of its intended purpose and to violate people's privacy.

Intended Audience

This document is intended for users and installers of FocusAI Dome cameras

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Table of Contents

ABOUT THIS DOCUMENT 3

1. SECURITY PRECAUTIONS 6

1.1. BASIC REQUIREMENTS 6
1.2. POWER REQUIREMENTS 6
1.3. USAGE NOTICES 6
1.4. CLEANING NOTICES 6
1.5. ENVIRONMENT REQUIREMENTS 6

2. PRODUCT SPECIFICATION 7

2.1. OVERVIEW 7
2.2. CAMERA SPECIFICATION 8
2.3. FUNCTION DESCRIPTION 8

3. QUICKSTART 9

3.1. POWER REQUIREMENTS AND PHYSICAL SETUP 9
3.2. INSTALLATION 9
3.3. ACTIVATE CAMERA 10

4. VANTAGE USER GUIDE 11

4.1. OVERVIEW 11
4.2. CREATE AN ORGANIZATION 11
4.3. ACTIVATE CAMERA 11
4.4. DASHBOARD 12
4.5. VIEW 13
4.6. SEARCH 14
4.7. EVENTS/ALERTS 14
4.8. FOOTPRINTS 15
4.9. MERLIN 16
4.10. SETTINGS 17

5. TROUBLESHOOTING 17

6. APPENDIX 19

6.1. APPENDIX A 19
6.2. APPENDIX B 20

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6.3. APPENDIX C 21
6.4. APPENDIX D 22

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1. Security Precautions

Before installing and using the device, please read the documents and comply with it strictly.
Incorrect operation of electric products may lead to damage and/or personal injury.

- FocusAI is not responsible for misuse or incorrect operation of the product.
- Product appearances and screen shots in this document are for reference only.
- Products and services are subject to change without notice.
- For the latest documentation, contact FocusAI support at support@focusai.com or use the website http://focusai.com

1.1. Basic Requirements

- No one is authorized to change or modify the product without express permission of FocusAI
- Install and use the device according to the vendor's requirements.
- Do not disassemble the device. Contact FocusAI if fault occurs on the device.
- Users must comply with applicable laws and regulations when using this device.

1.2. Power Requirements

- Comply with local electric security standards.
- Supply voltage must meet the requirements of the device.
- Use authorized accessories with the device.

1.3. Usage Notices

- Install the device correctly following installation instructions.
- Contact specially trained personnel to check and/or dismantle device.
- Stop using and power off the device if abnormal smell or sound occurs.
- Users should post a visible notice of surveillance as per local legal requirements.

1.4. Cleaning Notices

- Stop using and power off the device and disconnect all cables before cleaning.
- Use a soft cloth to wipe out the dust on the device.
- Do not clean the device with strong and abrasive alkaline cleaner or volatile solvent such as alcohol, benzene, or thinner. These liquids may damage the surface coating or deteriorate the device performance.

1.5. Environment Requirements

- Keep device dry and prevent excess vibrations during transportation, storage and installing
- Keep the device away from heat sources and fire
- Keep the device away from flammables, explosives

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2. Product Specification

2.1. Overview

This document describes the basic information to use and operate FocusAI Dome camera FD10
The FD10 is a sophisticated enterprise security camera that is designed to provide advanced features that enables a powerful video surveillance solution while optimizing the cost of the total solution.

Figure 1: FocusAI Dome Camera FD10

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2.2. Camera Specification

Category	Spec
Camera Sensor	IMX335
Sensor Resolution	5MP (2592x1944)
Lens Type	Fixed Focus
Image Sensor	1/2.8” Progressive CMOS
Focal Length	f=2.8mm
Iris	Fixed
Aperture	F1.6
Field of View	H:104°, V:77°, D:141°
Frame Rate	24fps
IR Range	20 M/60ft
PoE	DC 44-57V POE IEEE 802.3at
Ethernet	RJ45, (10/100 BaseT)
Certifications	IK10 and IP67

2.3. Function Description

FocusAI Dome FD10 is part of the FocusAI Direct-to-Cloud VSaaS platform Vantage. The camera can only be activated and used within the FocusAI Vantage platform. Camera is powered through Power-over-Ethernet (PoE) power supply. Camera network interface is configured for DHCP and will acquire a IP address from the server when connected.

The camera records continuous video on to onboard SD card storage. There are different models to support 30day, 60day, 90day+ video storage options. The video stored in H264 and H265 standards Live streams of the camera and the playback of recorded video are all supported within the Vantage platform.

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3. QuickStart

3.1. Power Requirements and Physical Setup

FocusAI cameras can be powered via a Power Over Ethernet switch or POE Injector that supplies minimum 20 watts of power.

Following figure shows how the ethernet cable is connected to the camera

Figure 2: Installation of PoE cable

Mounting: Cameras can be mounted onto a variety of surfaces including wood, sheetrock or ceiling tiles. Please work with your installer to determine a suitable mounting method.

3.2. Installation

1. Remove the cover from the FocusAI Dome Camera by removing the 3 T20 screws with the included screwdriver.
2. Place the camera on the desired wall mounting location and mark the 3 holes that will securely mount the camera base to the wall. Recommended height for installation is 10-15ft above ground.
3. Using a drill, create holes in the wall at the marked locations to install the included wall anchors into the drywall.
4. Insert the wall anchors.
5. Insert the CAT5/6 network cable through the rear grommet and tighten. Tuck away any excess cable.
6. Using the provided screws, securely fasten the camera to the drywall through the previously installed anchors.
7. Once the camera is permanently installed, open your FocusAI mobile app or the portal to adjust the camera angle/position to properly aim at the desired scene. Camera is assumed to have been activated to view the live feed.
8. Once aimed, reinstall the cover with the T20 screws, aligning the guide triangles on both the dome cover and the camera base.
9. The camera is fully installed and ready for use.

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3.3. Activate Camera

1. Plug camera to network port to attain TCP/IP Address. (Note: In this version, camera WIFI can only be configured AFTER ethernet and step 6 below.)
2. Create an organization at **https://vantage.focusai.com**
    1. You will receive an activation link via email.
3. Login to your Vantage organization.
4. Add your first camera by clicking the "+" in the lower left corner.
5. Enter Serial Number of the camera. This can be found in the camera package or under the camera.
6. Click "Activate Camera(s)"
    1. Add Device Name
    2. Select or Add a Site
    3. Select Time Zone
    4. Select "Activate Device"
7. Please wait 2-5 minutes for Camera to activate. The time required is dependent on your Internet connection speed. Once you see video from the camera, the activation is complete. For detailed instructions regarding people recognition, license plate recognition, tracking, etc., please contact your customer service representative.

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4. Vantage User Guide

4.1. Overview

FocusAI Vantage is the VSaaS platform that is used to manage cameras, watch live views and playbacks. Organizations can use Vantage to manage all their cameras in one place. The cameras can be organized by sites, buildings, etc. New cameras can be activated within Vantage using the serial number of the cameras. In addition, the platform provides advanced features for event search, people search, vehicle search on multiple or individual cameras. Following sections provide an overview of how the user accesses these features.

4.2. Create an Organization

Every customer must first create an organization on Vantage. Go to https://vantage.focusai.com and you will be greeted by the following initial screen.

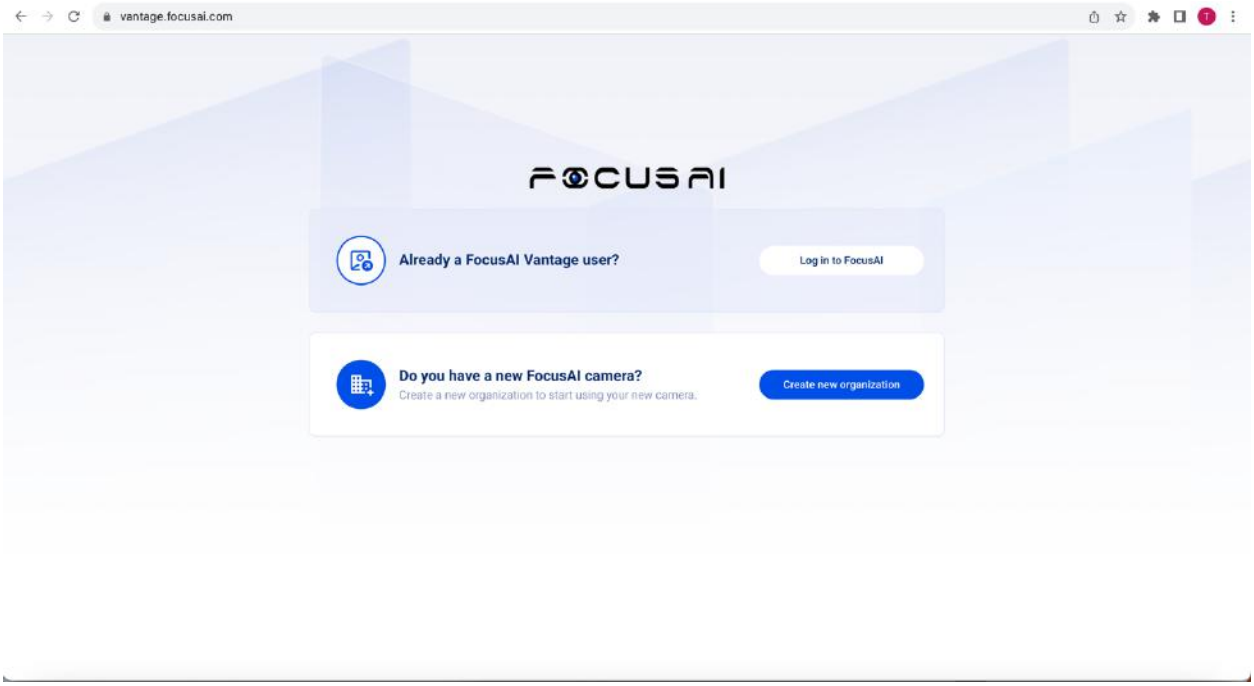

Figure 3: Vantage - Creating an organization

For first time use, click on Create new organization and following on screen directions. This will create a username (email address) and password for Organization Admin. A verification email is send to the provided email address. Next, check the user email entered and click on the verification link in the email from Vantage. Once this is complete, your account is ready to use. User can now go to https://vantage.focusai.com and login to the organization.

4.3. Activate Camera

After you are logged into Vantage, next add your first camera by clicking the “+”(Add New Device) menu in the lower left corner. You will now be able to add the device serial number (see figure below). After entering the serial number, click the activate device button.

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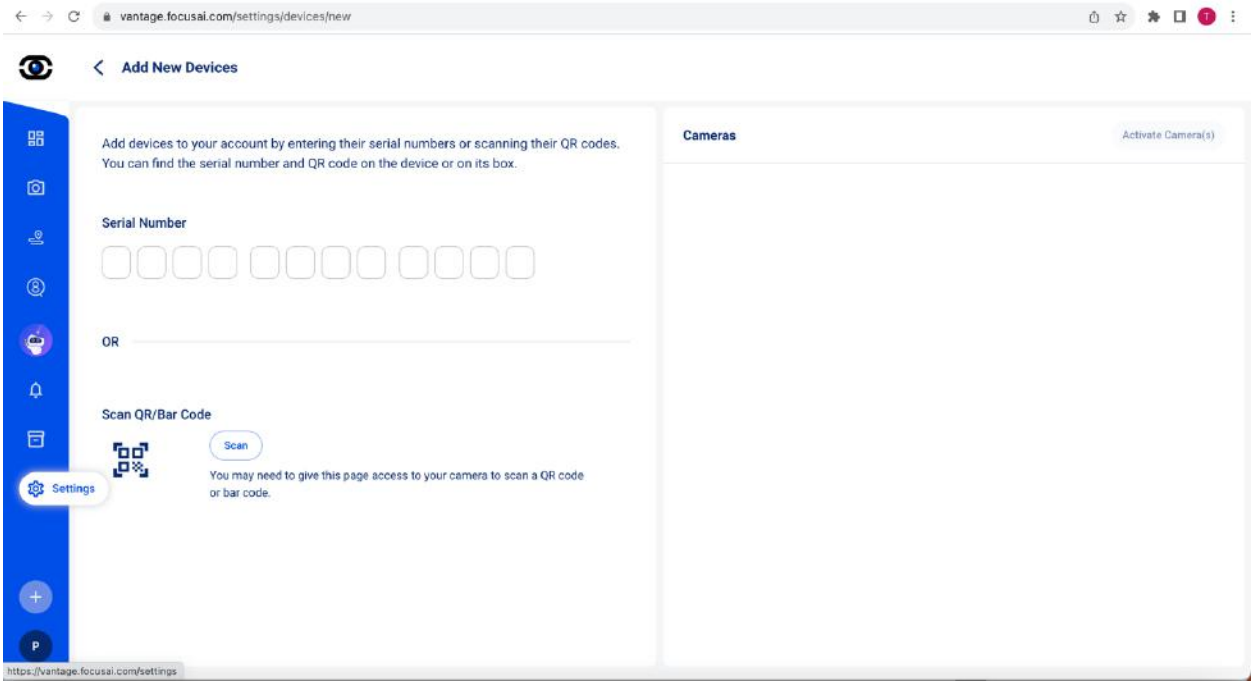

Figure 4: Vantage - Activating a camera

Follow the onscreen steps to activate a device by specifying a device name, site, address, etc. Camera may take 2 to 5 minutes to activate depending on internet connection speeds. Once you see the live video from the camera on the screen, activation is complete.

4.4. Dashboard

Dashboard provides a screen to look at the stats of the camera in the organization such as active/inactive. It also provides summaries of the latest events, latest people and vehicles seen. Additionally, charts on various statistics are provided.

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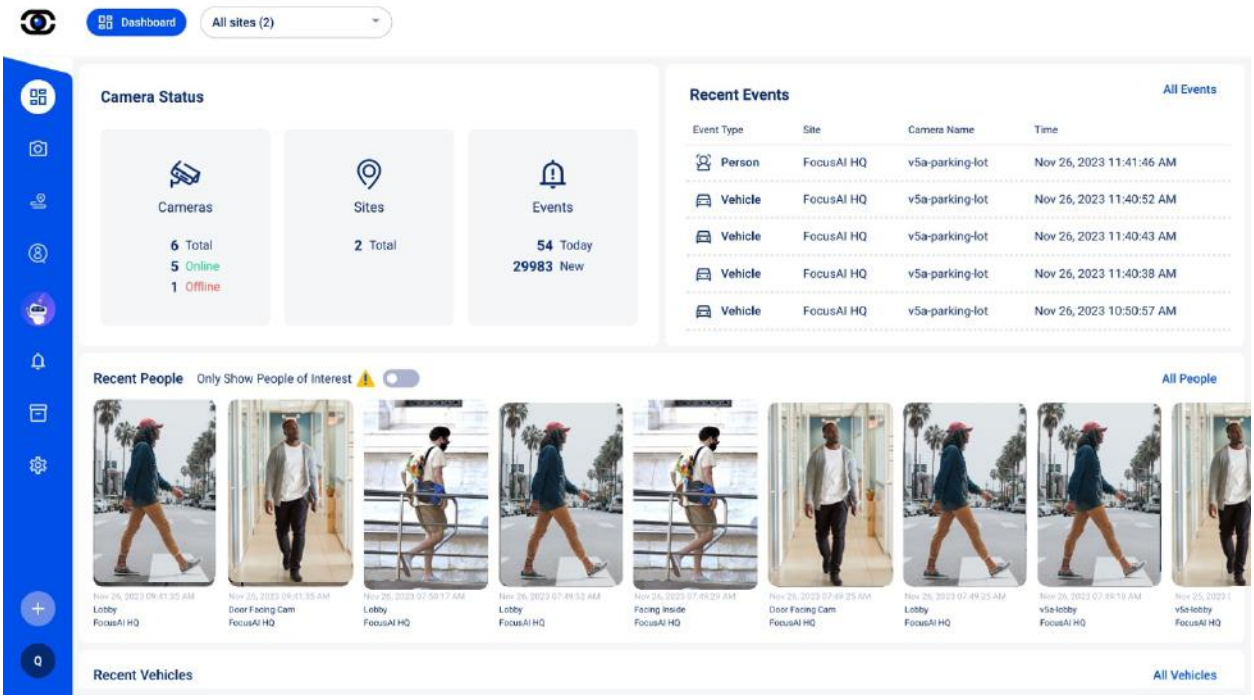

Figure 5: Vantage - Dashboard

4.5. View

View is the Vantage page on which users can view their cameras individually or by sites. Vantage provides a powerful grid view feature where the user can view their cameras in different layouts (1x1, 2x2, 3x3, 4x3, 6 camera view). These layouts are easily selected with icon buttons at the top of the page.

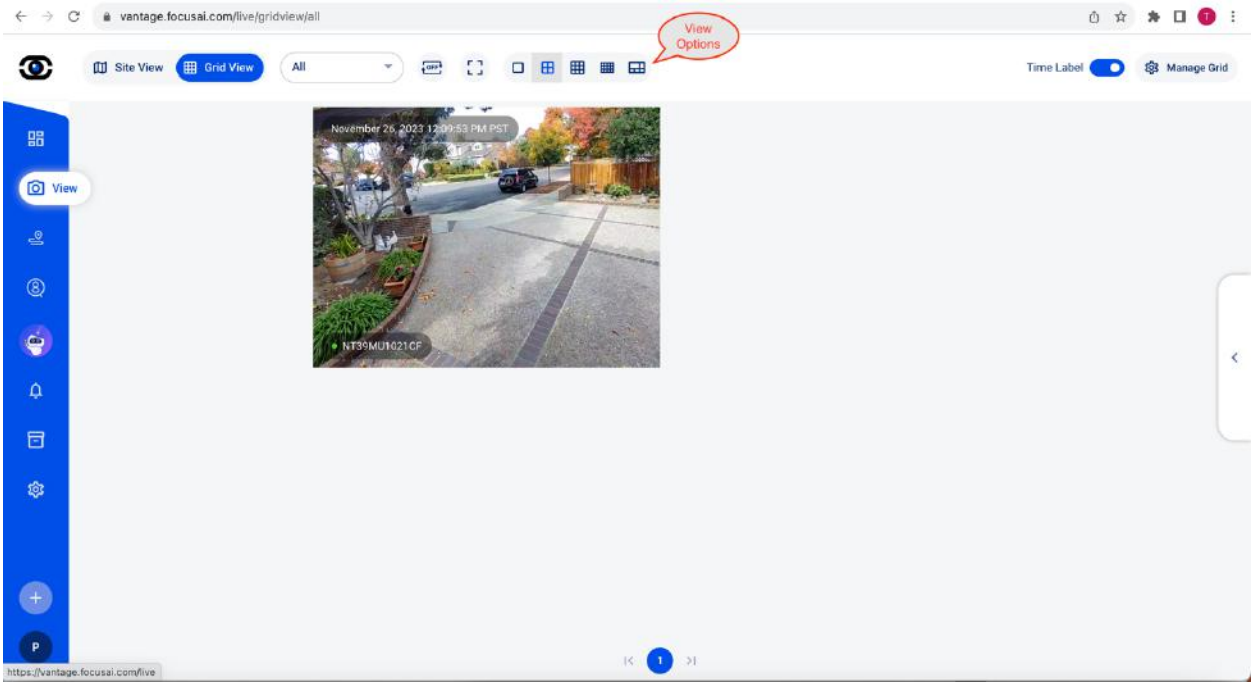

Figure 6: Vantage - Viewing Live Streams

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Vantage provides user with the ability to configure specific view by defining “Grids”. Grids can be created and configured using “Manage Grid” button.

4.6. Search

Search menu on the left side of Vantage provides users with access to people and vehicle page. In each of these pages, the user can see thumbnails of people seen by the camera. In this view, the thumbnail presented are for people who are withing certain distance from the camera. All presented thumbnails can then be used to search for people.
There are several options to filter the results based on specific time range, cameras, upper/lower color of people’s cloths, etc. Users can click on a thumbnail and will be able to play the video event when that thumbnail was captured.

Similarly, in the vehicle tab, the thumbnail of vehicles seen by the camera are presented. Vehicles can also be filtered by time range, cameras, color, etc. When the user clicks on any of the thumbnails, the corresponding recording of the vehicle is played back.

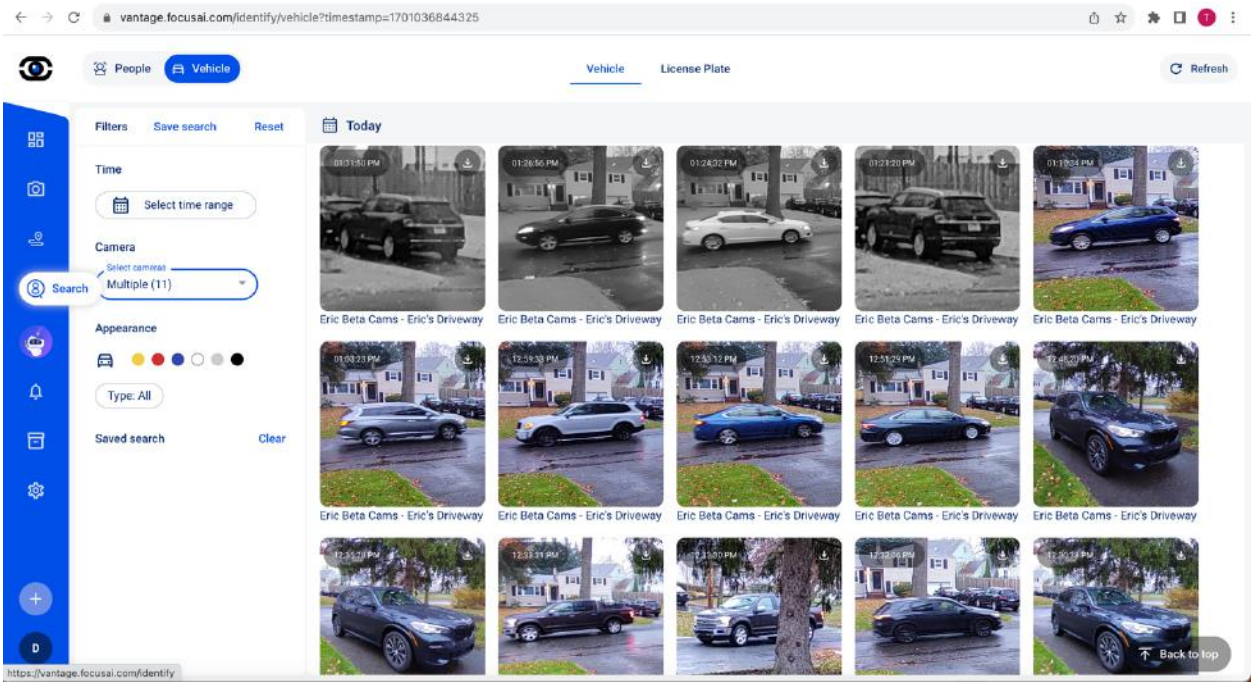

Figure 7: Vantage - Search -Vehicle page

4.7. Events/Alerts

Vantage provides a separate events/alert page that can be accessed from the side menu. In the events page, all events identified by the camera are shown. Unlike the Search Page where only people events that are searchable are presented, in the events page all the events seen by the camera are present. User can view all the events or use the provided filters to select people,

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vehicle, person of interest, crowd, and weapons. Users can select individual events and those event clips will be played.

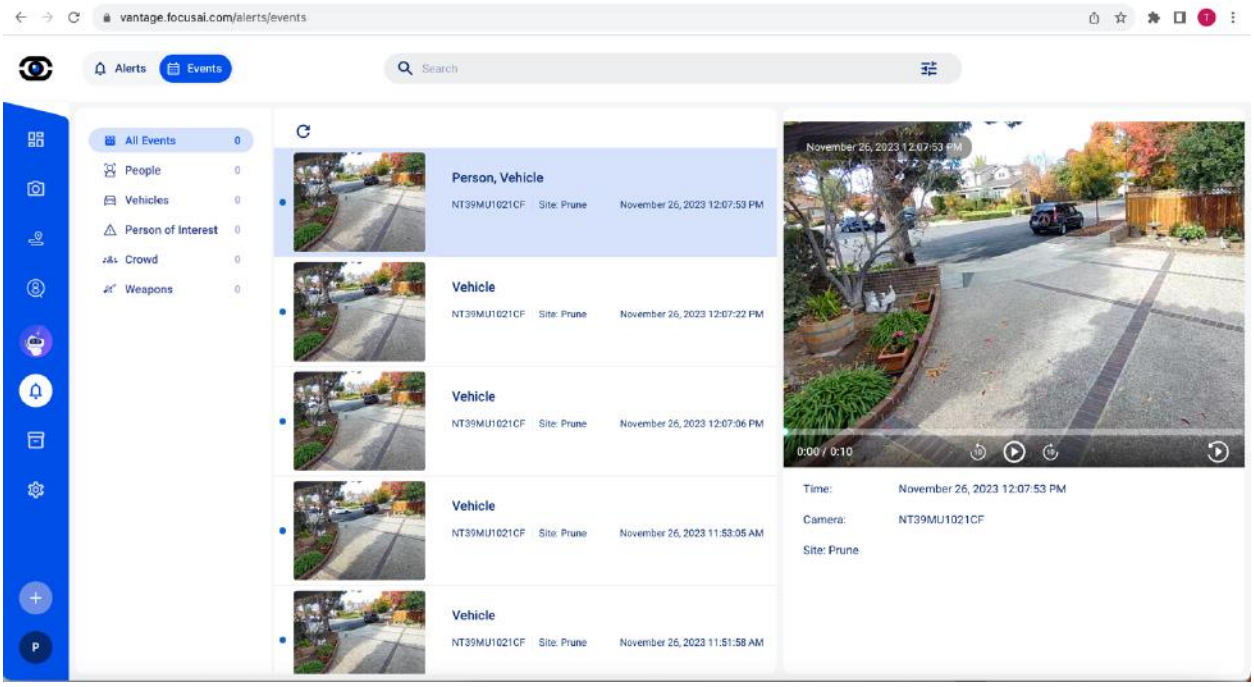

Figure 8: Vantage - Events page

In the Alerts tab, users can configure Alerts using the “New Alert” button or modify alerts using the “Manage Alerts” button. Users can configure alerts to send out email notification when alerts are triggered.

4.8. Footprints

Footprints is a unique feature of Vantage where users can configure floorplan and satellite view images to create a birds-eye-view of where the cameras are deployed. Footprints can then allow users to see people presence on floorplan as avatars with appropriate face thumbnails. This is special feature that allows the user to have situation awareness of where people are present across one or multiple cameras.

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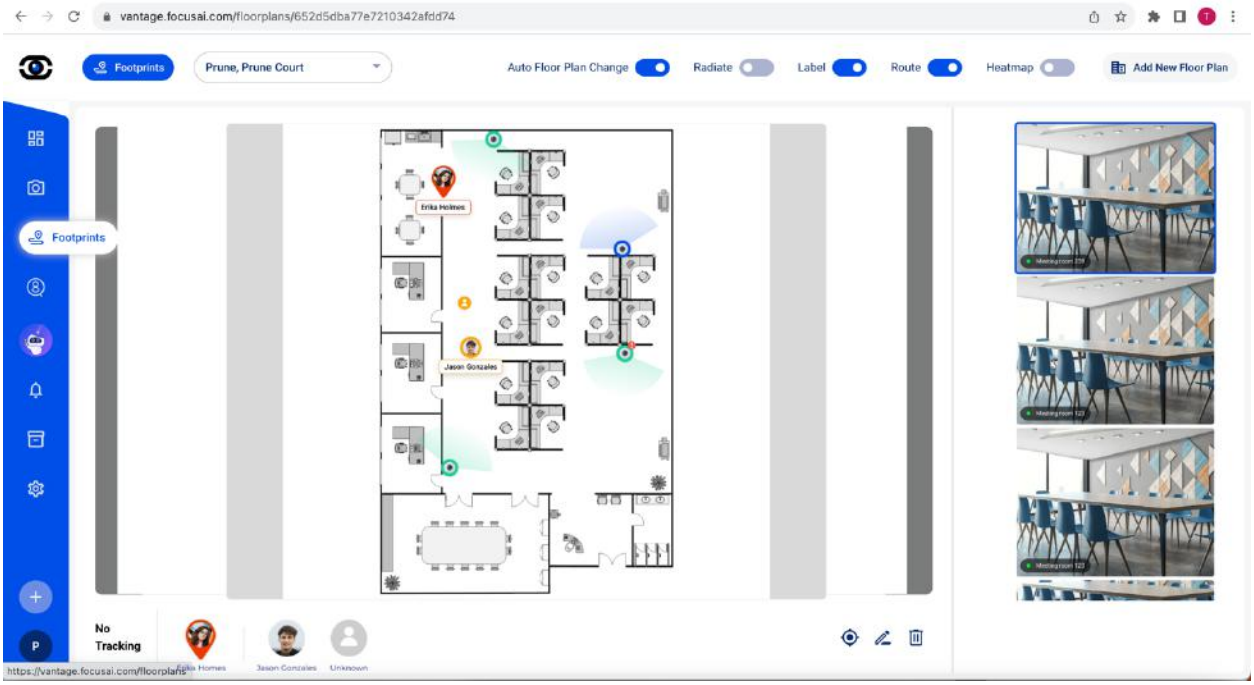

4.9. Merlin

Merlin is FocusAI's intelligent agent. Merlin provides a natural language interface to the recorded security footage. Traditional UX interfaces are very cumbersome to use to search for events since the user needs to select time range, camera's, color, etc. through the user interface.

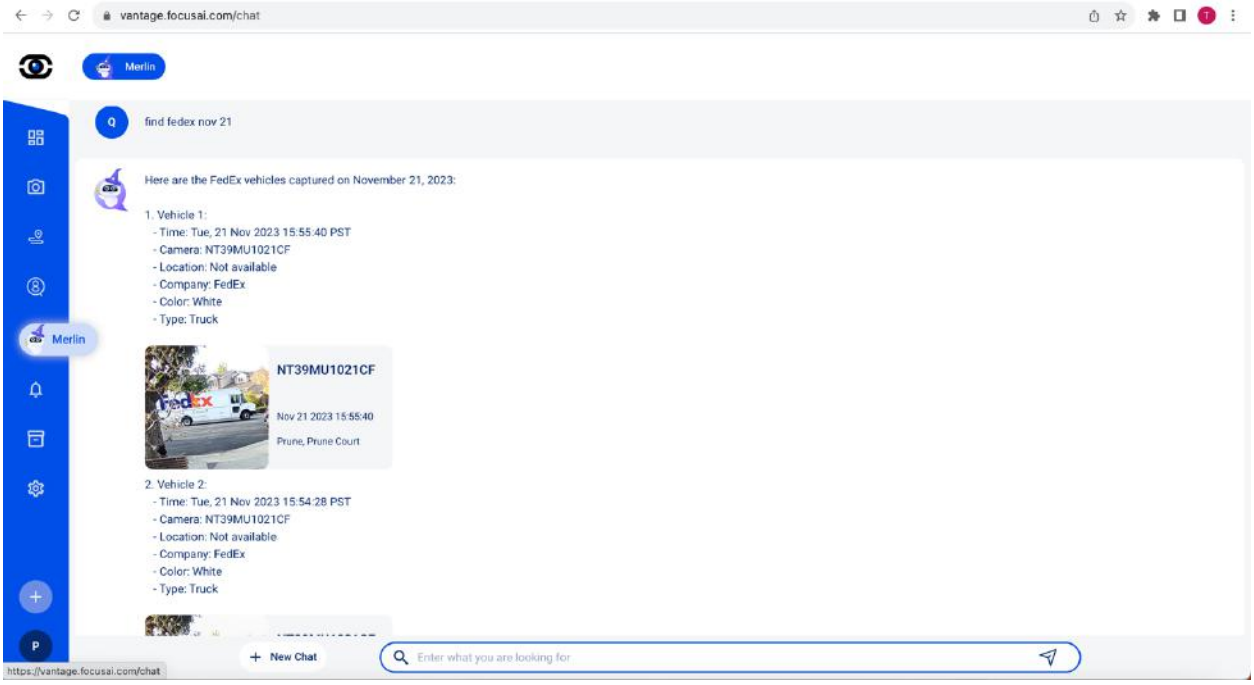

Figure 9: Vantage - Merlin usage

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Merlin provides a simple interface to query the video database through natural questions such as “find Chris yesterday” or “find fedex last Friday”. Vantage Merlin provides a sophisticated interface to respond to natural language queries from the user and presents the relevant data from the recorded video footage.
Contact FocusAI customer support at support@focusai.com for usage recommendation and training on Merlin.

4.10. Settings

Settings page is the main admin page on which user can configure organization level settings, device settings and user management. There are separate tabs provided to the user for managing devices and user management. Access to different functions is limited by the individual users access permissions. Org Admin will have access to all the functions however other users will be limited based on their roles and permissions.

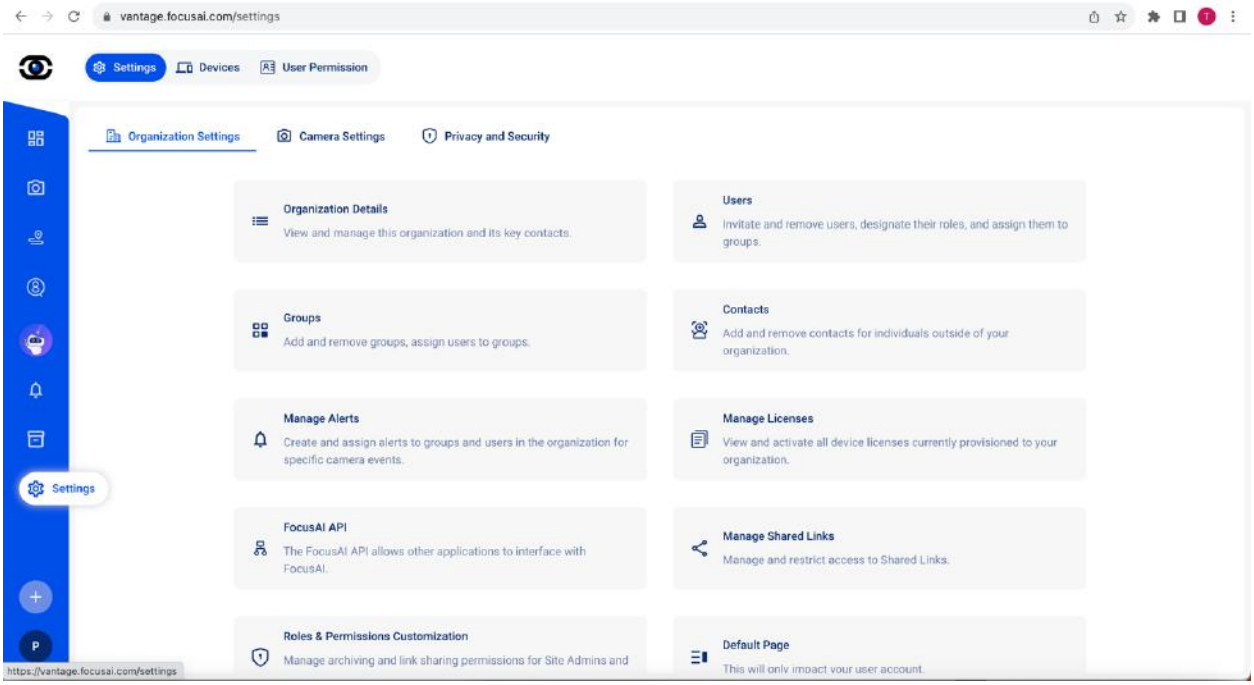

Figure 10: Vantage - Settings Configuration

5. Troubleshooting

FocusAI Dome FD10 is a fully cloud managed camera. FocusAI Vantage keeps track of device status and provides statistics to the user through the dashboard.
However, user can rectify some faults according to the symptom and corresponding recommendation.

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Fault	Possible Cause	Solution
LED flashing red	Network connection is down	Check the network and ensure the camera can connect to the local network.
Vantage account is not accessible	User entered incorrect password too many time or has forgotten password.	Reset password through Vantage and reset password through emailed link.
Unable to play back recorded videos	End user computer and browser does not support H265 playback	User should use a computer/browser that supports H265 playback. Recommended browser is Chrome.

For all other issues, please contact your customer service representative or reach to support@focusai.com.

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6. Appendix

6.1. Appendix A

EU&UK Regulatory Information

WIFI Operating Specification

Frequency Range:

2.4G Wi-Fi: 2412-2472MHz/2422-2462MHz
5G Wi-Fi: 5150-5250 MHz, 5250-5350MHz, 5470-5725MHz, 5725-5850MHz

RF-Output Power:

2.4G Wi-Fi: 19.73dBm
5G Wi-Fi:
5150-5250MHz: 22.78dBm
5250-5350MHz: 19.97dBm
5470-5725MHz: 19.20dBm
5725-5850MHz: 13.96dBm

UK
Operation of 5150-5350 MHz is restricted to indoor use only.

BE	BG	CZ	DK	DE	EE	IE	EL
ES	FR	HR	IT	CY	LV	LT	LU
HU	MT	NL	AT	PL	PT	RO	SI
SK	FI	SE	NO	IS	LI	CH	TR

In all EU member states, operation of 5150-5350 MHz is restricted to indoor use only.

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6.2. Appendix B

FCC Caution
Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

IMPORTANT NOTE:
Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
—Reorient or relocate the receiving antenna.
—Increase the separation between the equipment and receiver.
—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
—Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator& your body.

ISEDC Warning
This device complies with Innovation, Science, and Economic Development Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:
(1) this device may not cause interference, and
(2) this device must accept any interference, including interference that may cause undesired operation of the device.
Le présent appareil est conforme aux CNR d' Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :
(1) l'appareil nedoit pas produire de brouillage, et
(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Operation of 5150-5250 MHz is restricted to indoor use only.
Le fonctionnement de 5150-5250 MHz est limité à une utilisation en intérieur uniquement.

The device is compliance with RF exposure guidelines, users can obtain Canadian information on RF exposure and compliance.The minimum distance from body to use the device is 20cm.
Le présent appareil est conforme Après examen de ce matériel aux conformité ou aux limites d'intensité de champ RF, les utilisateurs peuvent sur l'exposition aux radiofréquences et la conformité and compliance d'acquérir les informations correspondantes. La distance minimale du corps à utiliser le dispositif est de 20cm.

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6.3. Appendix C

WEEE statement:
Recycle your device.
The WEEE logo (shown at the left) appears on the product to indicate that this product must not be disposed off or dumped with your other household wastes. You are liable to dispose of all your electronic or electrical waste equipment by relocating over to the specified collection point for recycling. of such hazardous waste.

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6.4. Appendix D

Battery Warning

CAUTION:
Risk of fire or explosion or defeat the safeguard of equipment if the battery is replaced by an incorrect type. Replace only with the same or equivalent type.
Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion.
Leaving the battery in an extremely high temperature and/or low air pressure surrounding environment that can result in an explosion or the leakage of flammable liquid or gas.

PRUDENCE:
Risque d'incendie ou d'explosion ou de défaillance de la protection de l'équipement si la batterie est remplacée par un type incorrect. Remplacez-le uniquement par un type identique ou équivalent.
Mise au rebut d'une batterie dans un feu ou un four chaud, ou écrasement ou découpage mécanique d'une batterie, pouvant entraîner une explosion.
Laisser la batterie dans un environnement ambiant à température extrêmement élevée et/ou à basse pression d'air pouvant entraîner une explosion ou une fuite de liquide ou de gaz inflammable.

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