

Video analytics system for cities
and business

VEZHA

VEZHA

User Guide for Hard Hats Plugin

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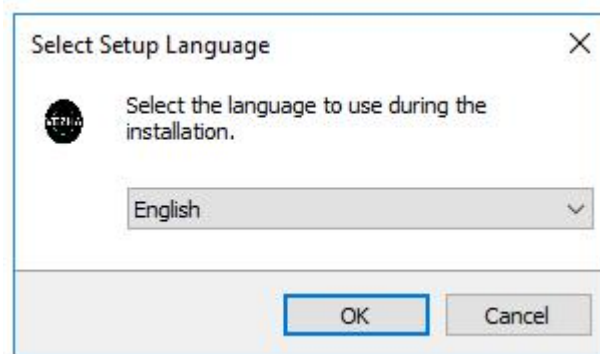
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1 VEZHA Hard hats Plugin Description

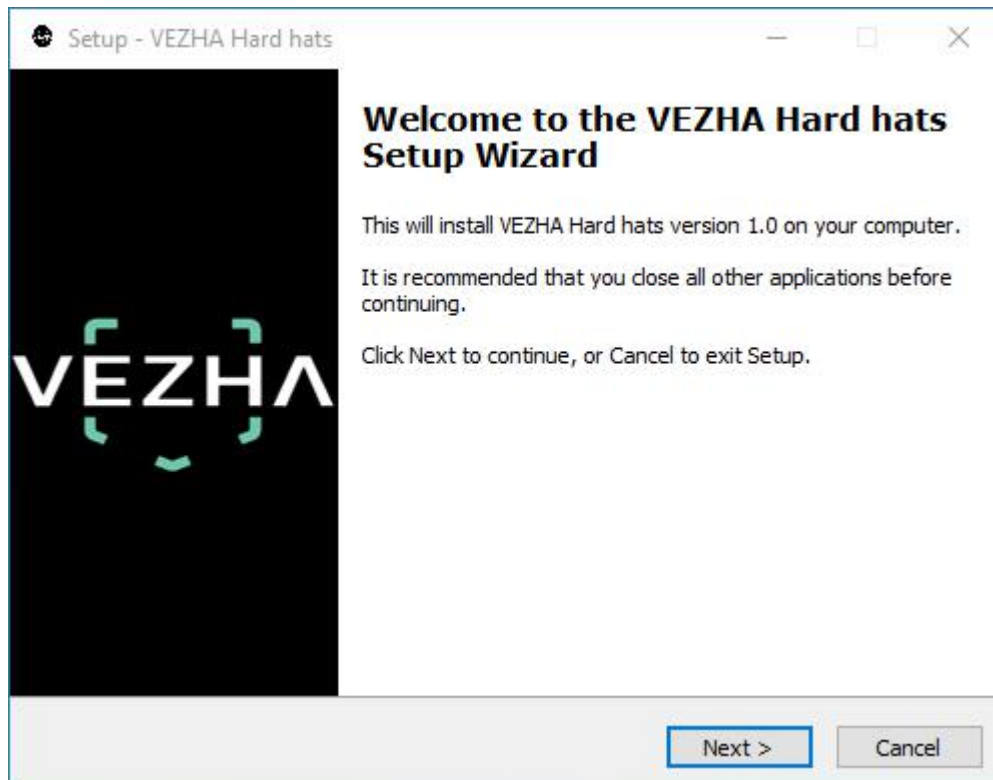
VEZHA Hard hats Plugin is intended for recognition of the employees who are in shop or on a building site without a protective hardhat, and to inform about it.

2 Installation

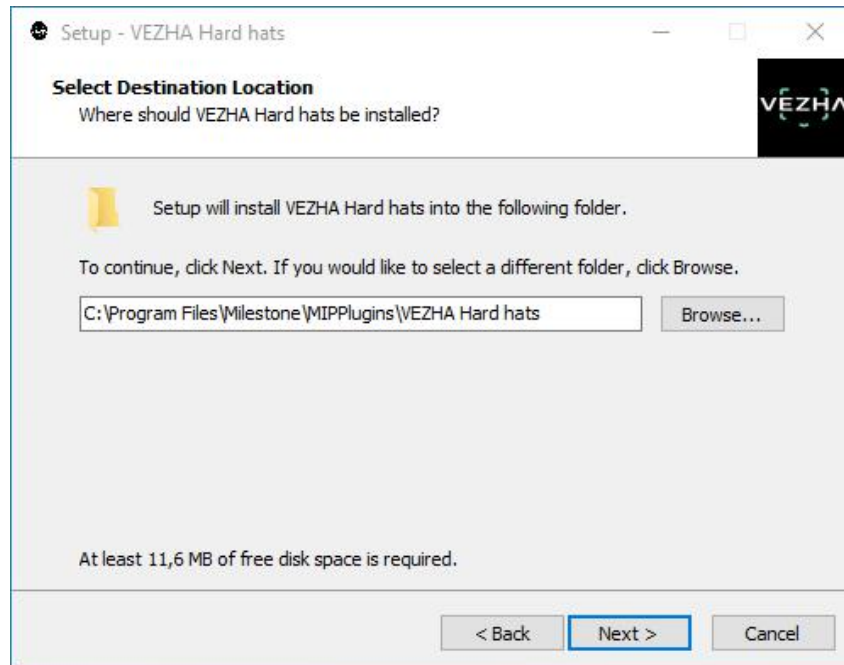
1. Launch the installer by double-clicking on the downloaded file **VEZHA_Hardhats_Setup**.
2. In the opened window, select the language that will be used during the installation process. To go further, click **OK**. To abort installation click **Cancel**.



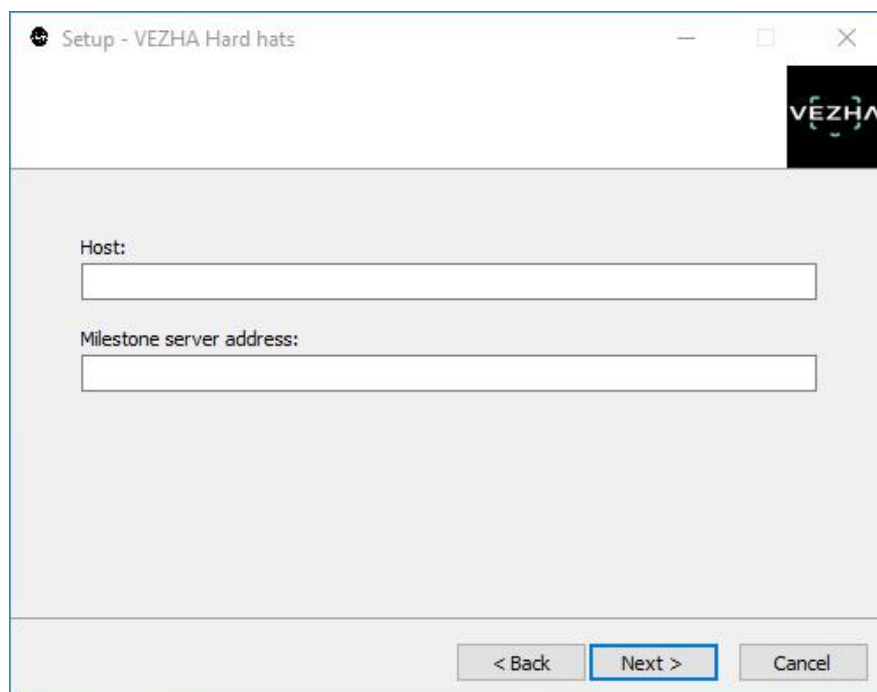
3. In a new window, read the installation recommendations and click **Next** to continue the installation, or the **Cancel** button to abort the installation.



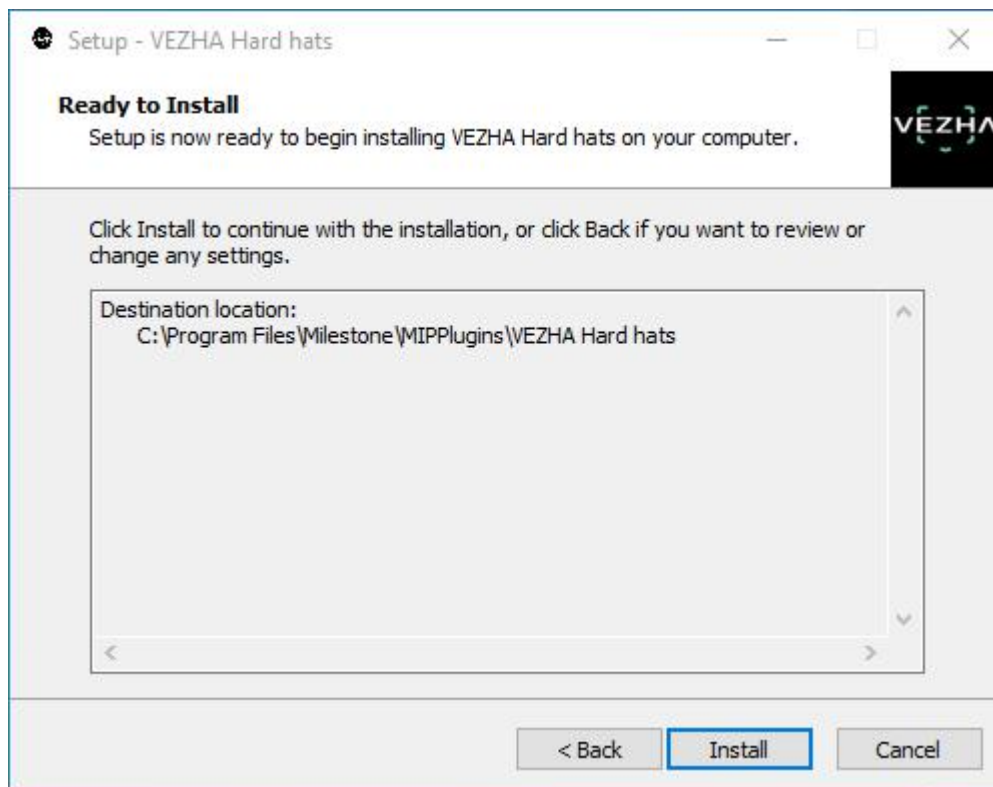
4. In the **Select Destination Location** window using the **Browse** button, specify the location where you want to install the plugin. The plugin must be installed in the Milestone folder with other plugins. After selecting the desired folder, click **Next** to continue the installation or **Cancel** to abort the installation.



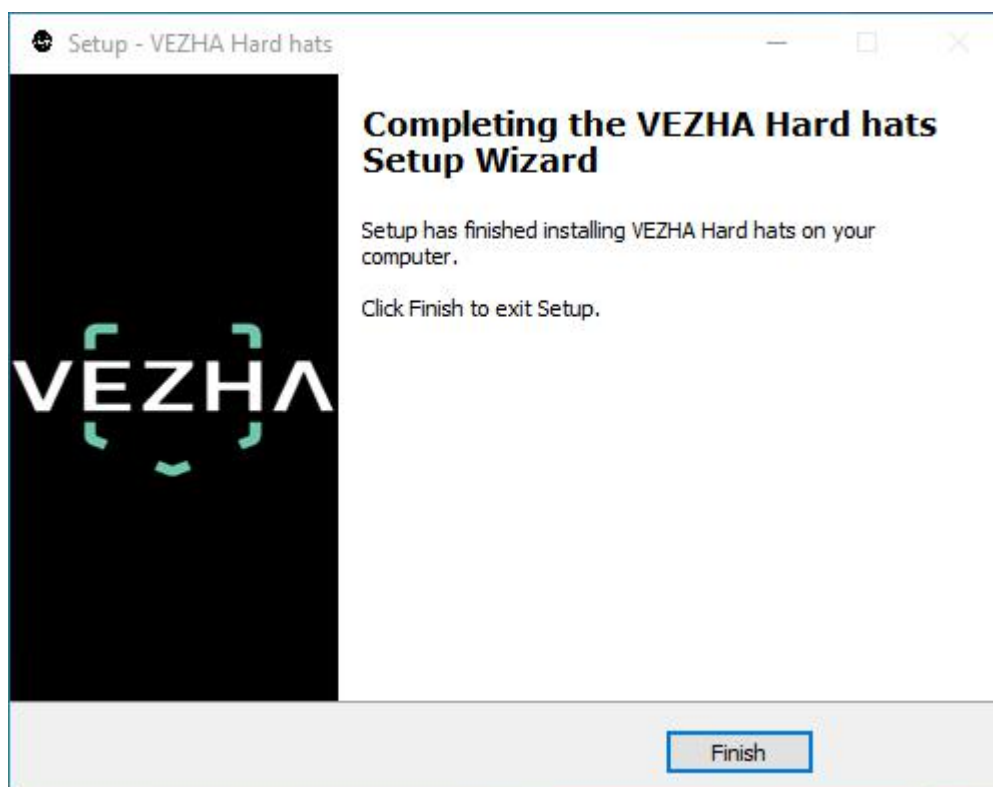
5. In this window, for the program to work correctly, you need to fill in all the fields correctly and click **Next** to continue the installation or **Cancel** to abort the installation.



- Click “**Install**” to start the installation.

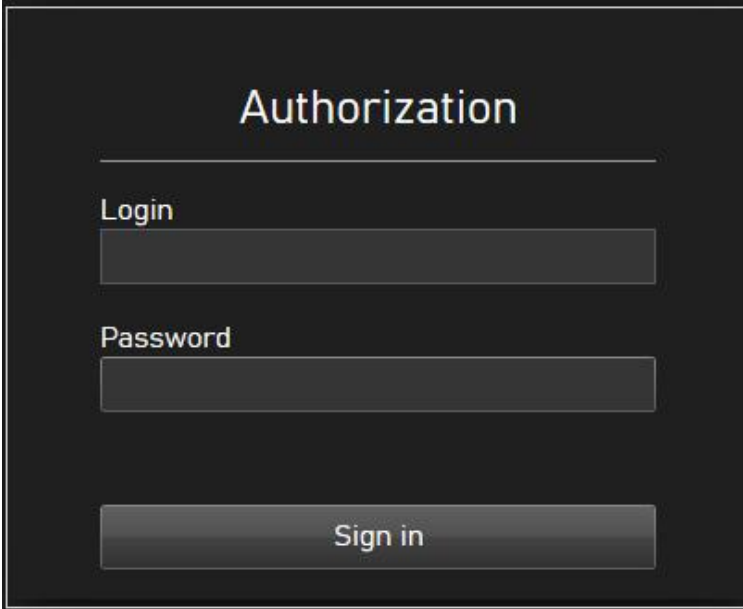


- After the installation is completed, click **Finish**.



3 Log In

To enter the system you need to go through authorization. To do this, enter the **Login** and **Password** in the appropriate fields of the modal window and click **Login**.

A dark-themed modal window titled "Authorization". It contains two input fields: "Login" and "Password", each with a light gray placeholder. Below the fields is a "Sign in" button. The modal has a thin white border.


Authorization

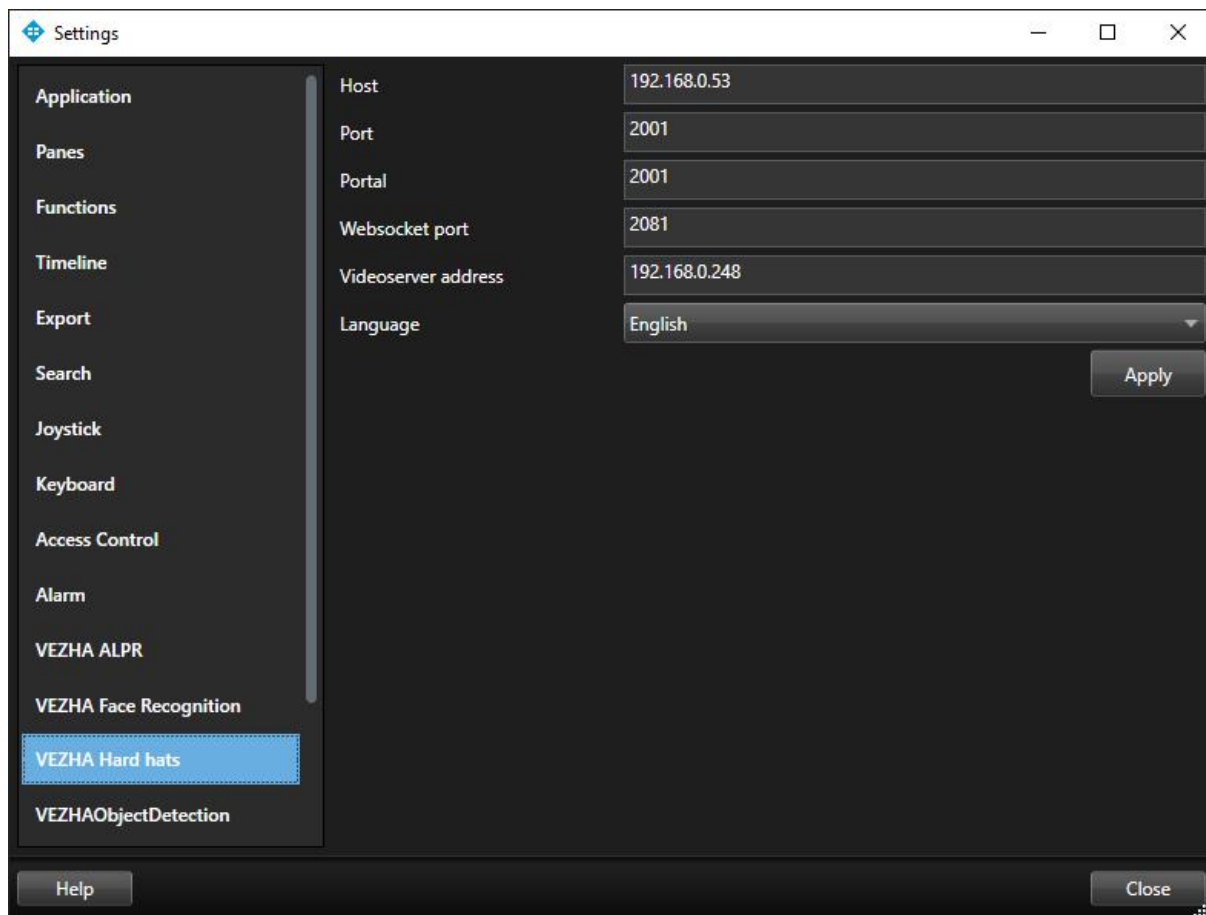
Login

Password

Sign in

4 Settings

In order to find **VEZHA Settings** click on the icon  in the upper right corner of the screen. Choose and click **Settings**. In the opened window choose **VEZHA Hard hats**.

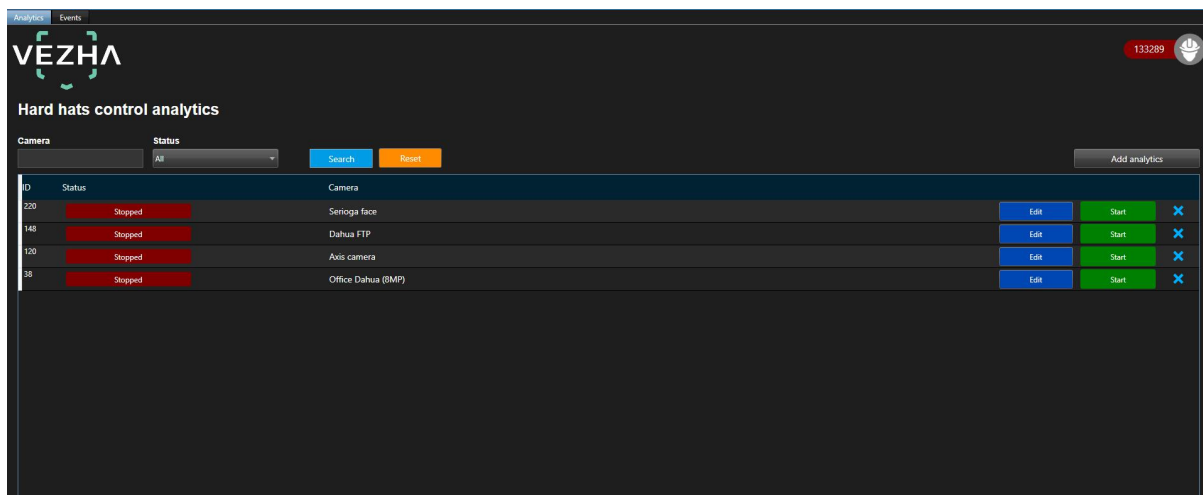


To change the server settings in the **VEZHA Hard hats** tab, you can edit the following fields: **Host**, **Port**, **Portal**, **Websocket port**, **Milestone video server address**.

To change the language, use the **Language** field and select from the list the most convenient for you. To make changes, click **Apply** and reload the plugin.

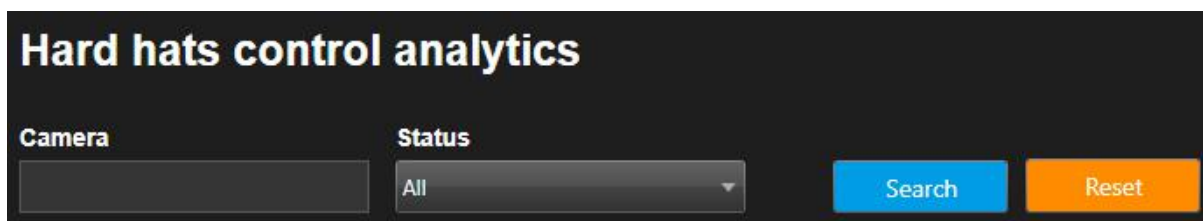
5 Hardhats control analytics

This tab is intended for adding, editing, viewing, deleting and changing the status of analytics.



5.1. Analytics search

At the top of the screen are located search fields.



To find the desired analytics, enter the name or status of the analytics.

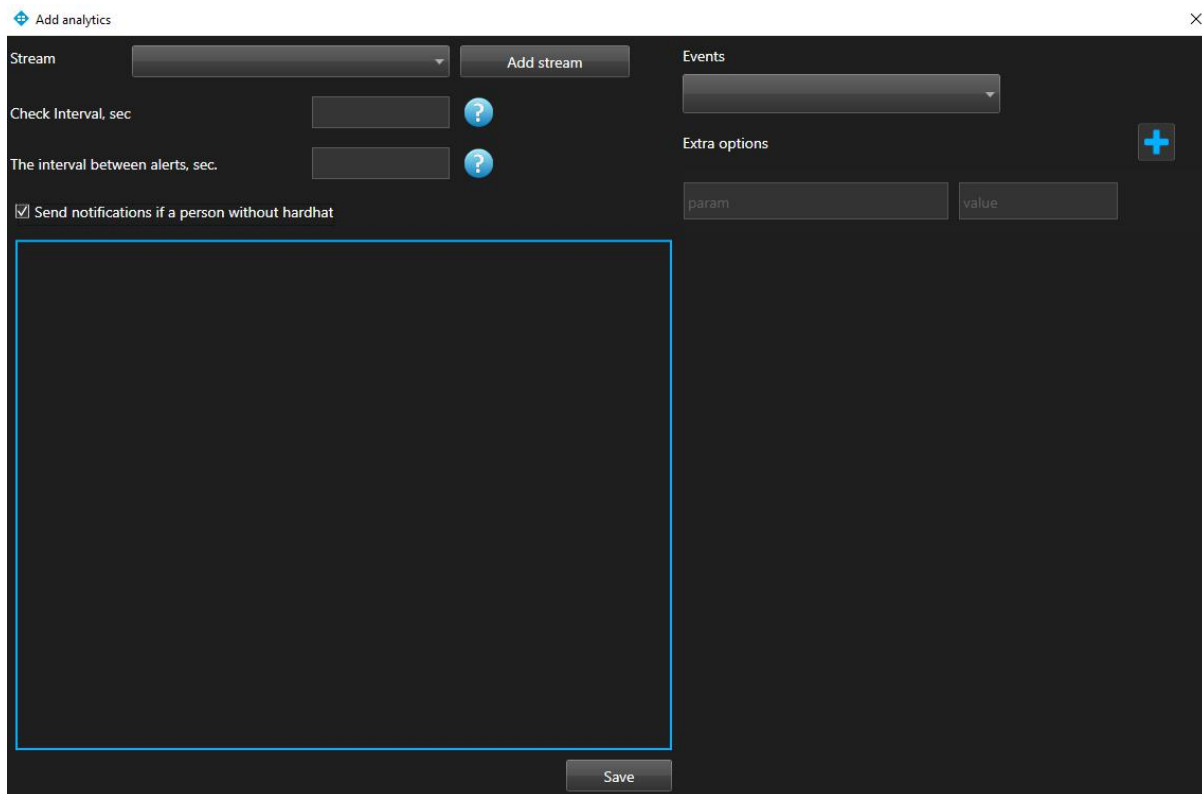
To start the search, click the **Search** button.



In way to clear the result, click **Reset** button.


5.2. Adding of analytics

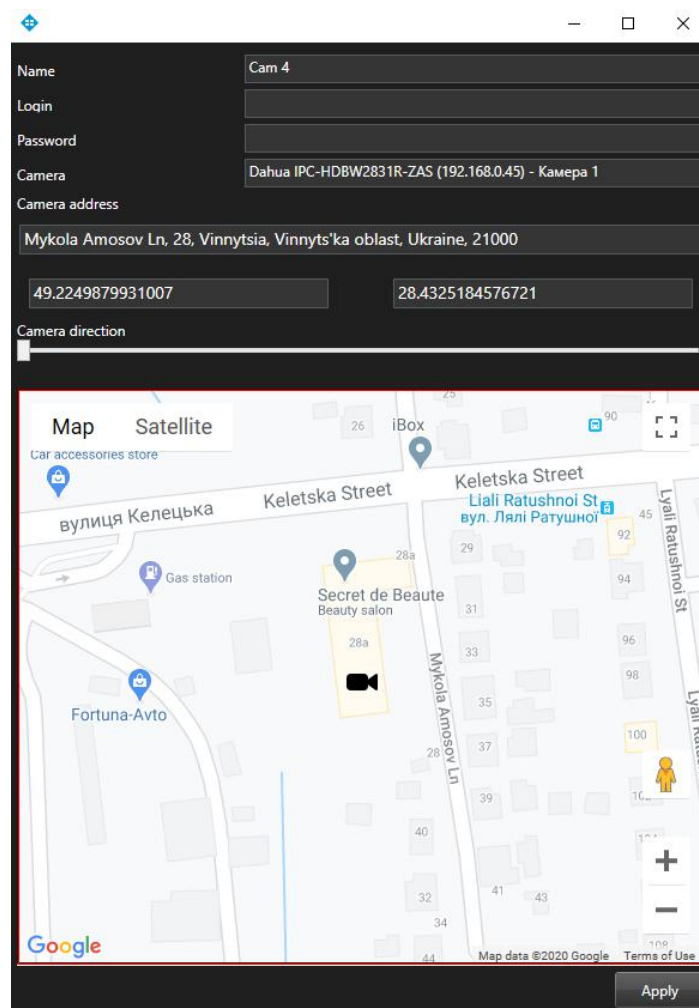
To add new hardhats control analytics, click **Add analytics** in the upper right corner of the screen.

In the opened window, fill the fields:



| Field name | Recommended Value |
|---|---|
| Stream | Click on the field and select a camera name from the drop-down list. The video stream will be used to create analytics. |
| Check Interval, sec | Enter the check interval with which the system will check for a safety hardhat. The possible range is from 0.04 to 30 s. Recommended value 0.04 s. |
| The interval between alerts, sec | The frequency with which the system will send notifications. The possible range is from 0.5 to 300 s. The recommended value is 0.5 s. |
| Send notifications if a person without hardhat | Fill the checkbox “ Send notifications if the person is without hardhat ” to create your own event for sending notifications. Event manager is designed to create notifications (depending on incoming parameters). |
| Event | Choose the event from drop down list. Using this events will be sent notifications to the services indicated in the event. |
| Extra options | If necessary, you can add additional parameters for their further use when creating an event. Fill the fields with parameters. In way to add parameter click add parameter  . In way to remove parameter click  . |

In way to edit video stream click  right of video stream record. In way to create new video stream click **Add stream**.



The screenshot shows a configuration window for a video stream. It includes fields for Name (Cam 4), Login, Password, Camera (Dahua IPC-HDBW2831R-ZAS (192.168.0.45) - Камера 1), and Camera address (Mykola Amosov Ln, 28, Vinnytsia, Vinnyts'ka oblast, Ukraine, 21000). Below these are two input fields for coordinates: 49.2249879931007 and 28.4325184576721. A slider for Camera direction is also present. At the bottom is a Google Map showing the location with a camera icon placed on Keletska Street. The map includes labels for 'вулиця Келецька', 'Keletska Street', 'Lialy Ratushnoi St', and 'Лялі Ратушної'. Other landmarks like 'Secret de Beaute Beauty salon' and 'Fortuna-Avto' are also visible. An 'Apply' button is at the bottom right.

In the opened window fill the fields:

- Name** - enter the name of video stream. This field will be displayed in all components of the program that use video streams.
- Login** – enter the name of current Milestone user.
- Password** – enter a password of current Milestone user.
- Camera** – choose a camera from drop down list.
- Camera address** - enter the address in the field, or select on the map below the location of the camera (drag the camera icon). The system will automatically determine the location coordinates.
- Camera direction**- drag the slider to change the direction of the camera. Indication of camera rotation helps in determining the direction of movement of a person.

In way to save changes click **Apply**.



In way to create analytics click **Save**.

5.3. Editing, changing status, viewing and deleting a video stream

To edit the video stream, click the **Edit** button on the right side of the recording.


In the window that opens, fill the fields:

| Field name | Recommended value |
|---|---|
| Check interval, sec | Enter in the field the frequency with which the system will check for a hardhat. The possible range is from 0.04 to 30 s. Recommended value 0.04 s. |
| The interval between alerts, sec | The frequency with which the system will send notifications. The possible range is from 0.5 to 300 s. The recommended value is 0.5 s. |
| Send notifications if a person without hardhat | Fill the checkbox « Send notifications if a person without hardhat » to create your own event for sending notifications. Event manager is designed to create notifications (depending on incoming parameters). |
| Events | Select events from the drop-down list. This event will receive notifications for the services indicated in the event. |
| Extra options | If necessary, you can add additional parameters for their further use when creating an event. Fill the fields with parameters. To add parameter click add |

| Field name | Recommended value |
|------------|---|
| |  . To remove parameter click  . |

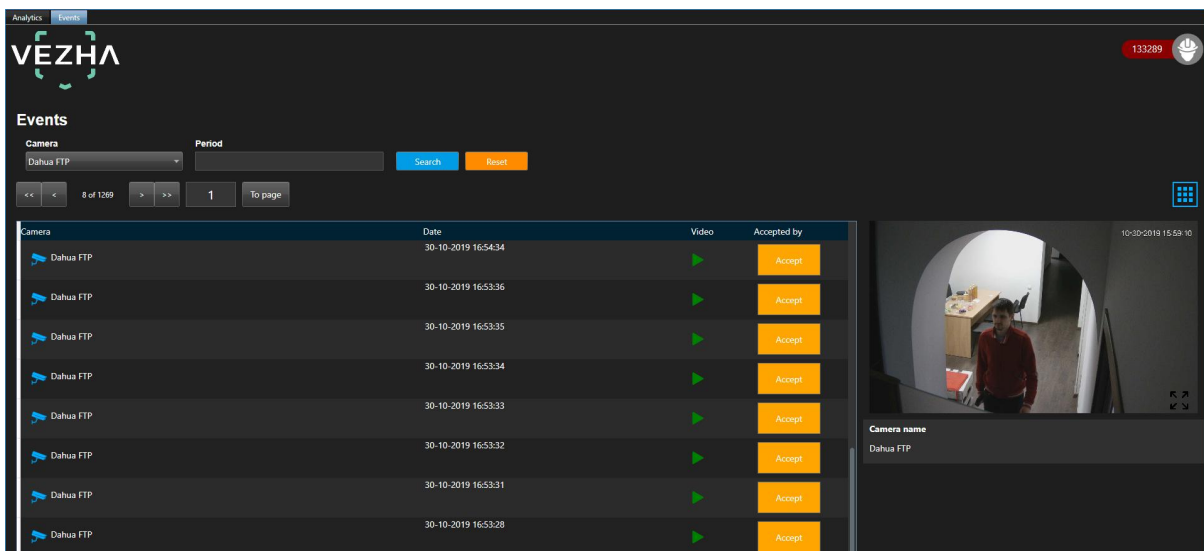
In way to change analytics click **Save**.

To start/stop analytics click **Start/Stop**.

In way to delete analytics click  .

6 Events









This section is designed to view the history of notifications about persons without a hardhat.



Events

Camera: Dahua FTP Period: Search Reset

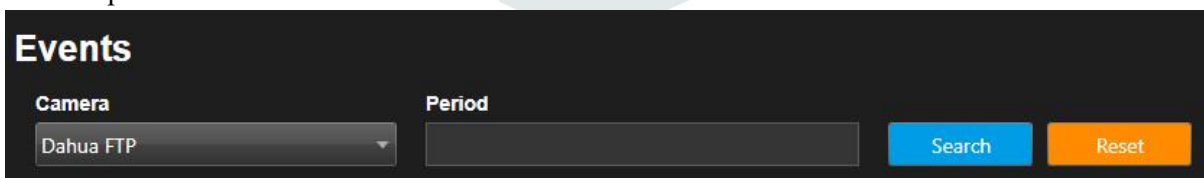
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| Camera | Date | Video | Accepted by |
|-----------|---------------------|---|-------------|
| Dahua FTP | 30-10-2019 16:54:34 |  | Accept |
| Dahua FTP | 30-10-2019 16:53:36 |  | Accept |
| Dahua FTP | 30-10-2019 16:53:35 |  | Accept |
| Dahua FTP | 30-10-2019 16:53:34 |  | Accept |
| Dahua FTP | 30-10-2019 16:53:33 |  | Accept |
| Dahua FTP | 30-10-2019 16:53:32 |  | Accept |
| Dahua FTP | 30-10-2019 16:53:31 |  | Accept |
| Dahua FTP | 30-10-2019 16:53:28 |  | Accept |

Camera name: Dahua FTP

6.1 Event Search

At the top of the screen are located search fields



Events

Camera: Dahua FTP Period: Search Reset

In order to find the necessary notifications you can use these fields:

a. Period

Click on the field and select the desired time period.

b. Camera

Click on the field and select the desired camera.

Click **Search** to display the search results. Click **Reset** to clear the input fields.

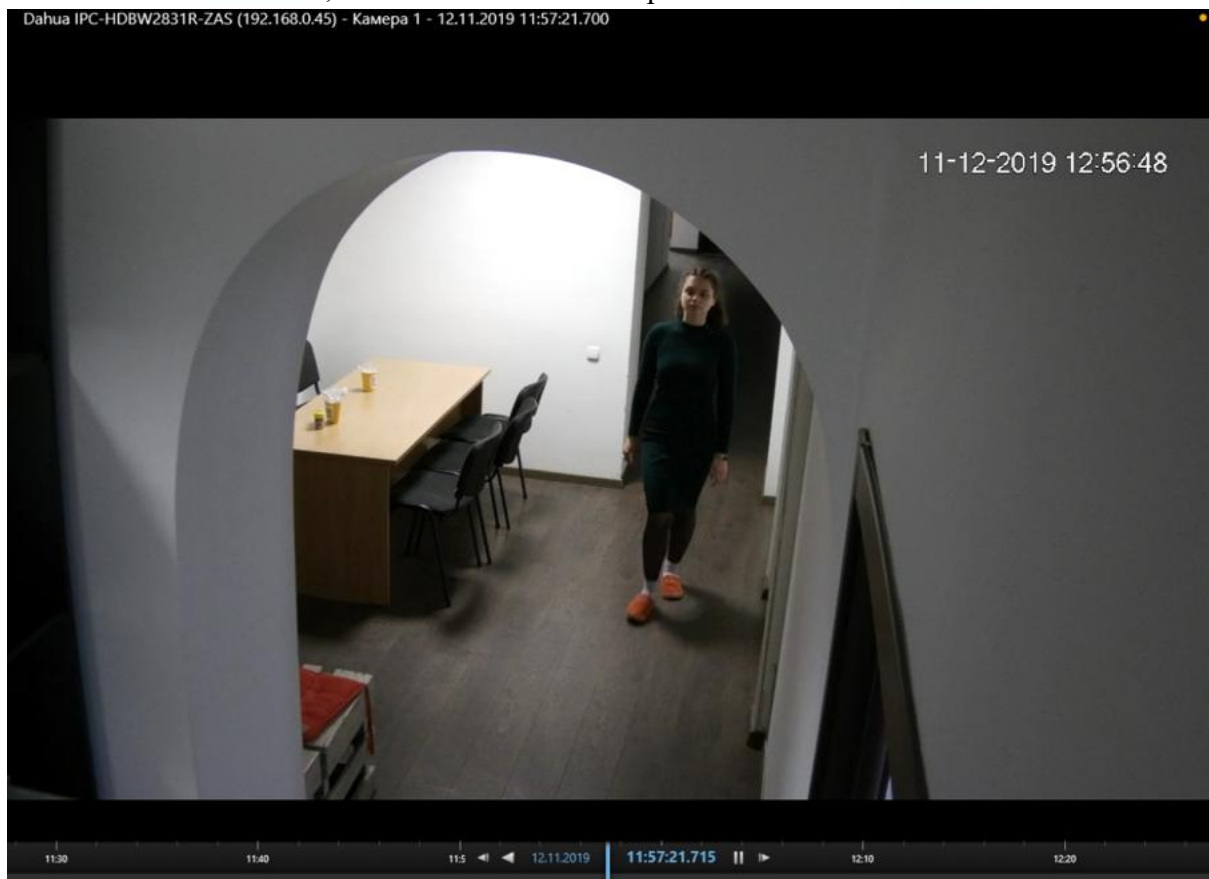
6.2. Working with Hardhats Control Notification Records

To change the records format click



The list of notification records consists of the fields: camera, date, video, accepted by.

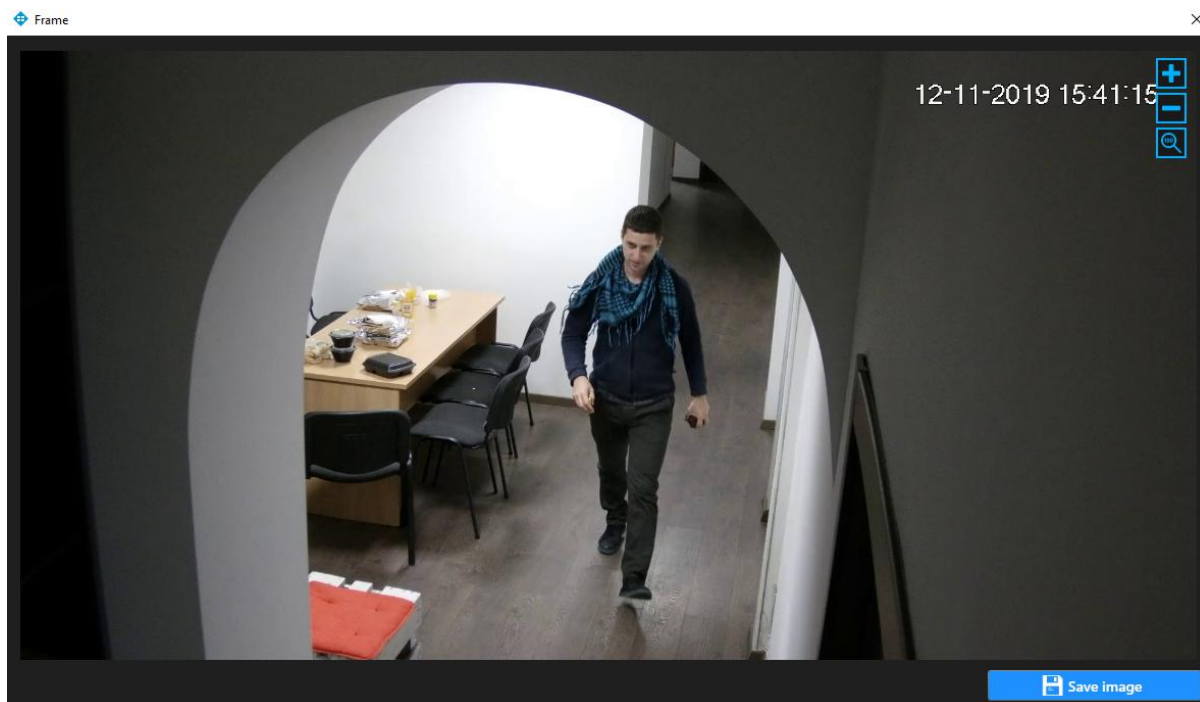
Click on the button , to watch a video with a person found without a hardhat.



Click the play icon to start the video.

To accept the notification click on **Accept**.

Click on the image zoom button to view the frame from the camera.



Click **Save image**, in way to download frame from camera.

About VEZHA:

Our mission is to create a safe environment
for residents of cities of all sizes
and to help Ukrainian businesses optimize their security
and safety management processes.

For more information visit: <https://vezha.io/>



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