

Video analytics system for cities
and business

VEZHA

Two light gray L-shaped corner brackets, one on the left and one on the right, framing the top of the central text.

VEZHA

User Guide for Traffic Analytics Plugin



Content:

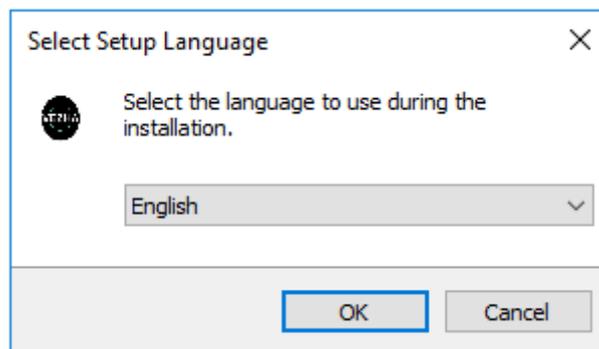
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VEZHA Traffic Analytics Plugin Description

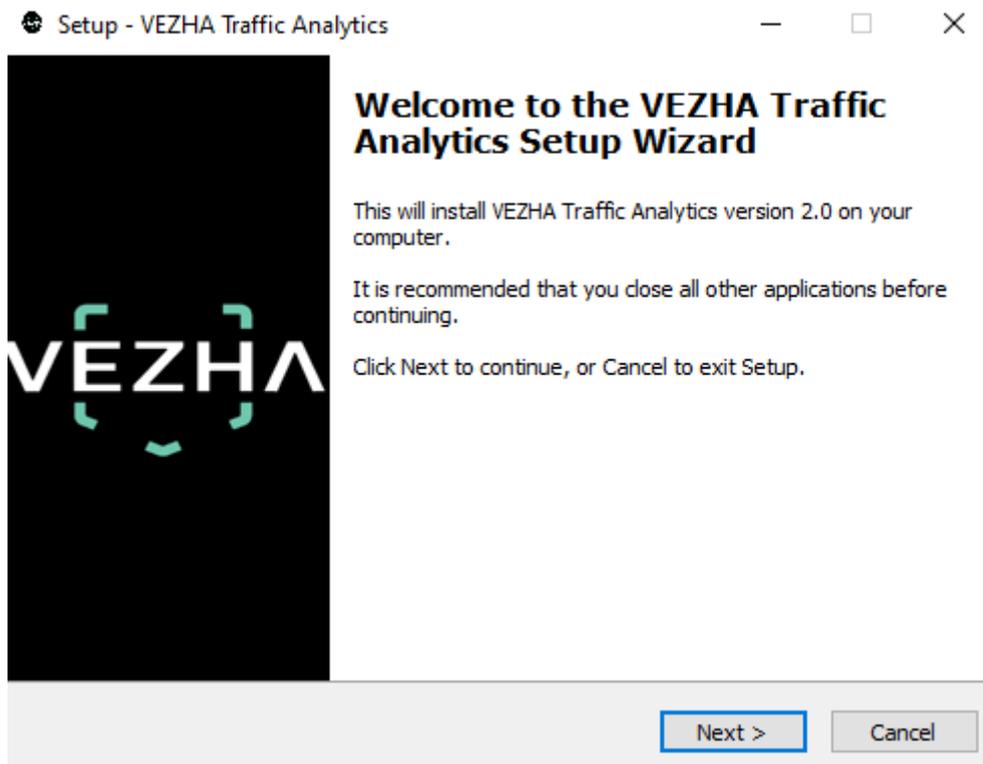
VEZHA Traffic Analytics Plugin determines the level of traffic on the roadway, sidewalks for cars and pedestrians, as well as the intensity of movement of people in the mall.

1. Traffic Analytics Plugin Installation

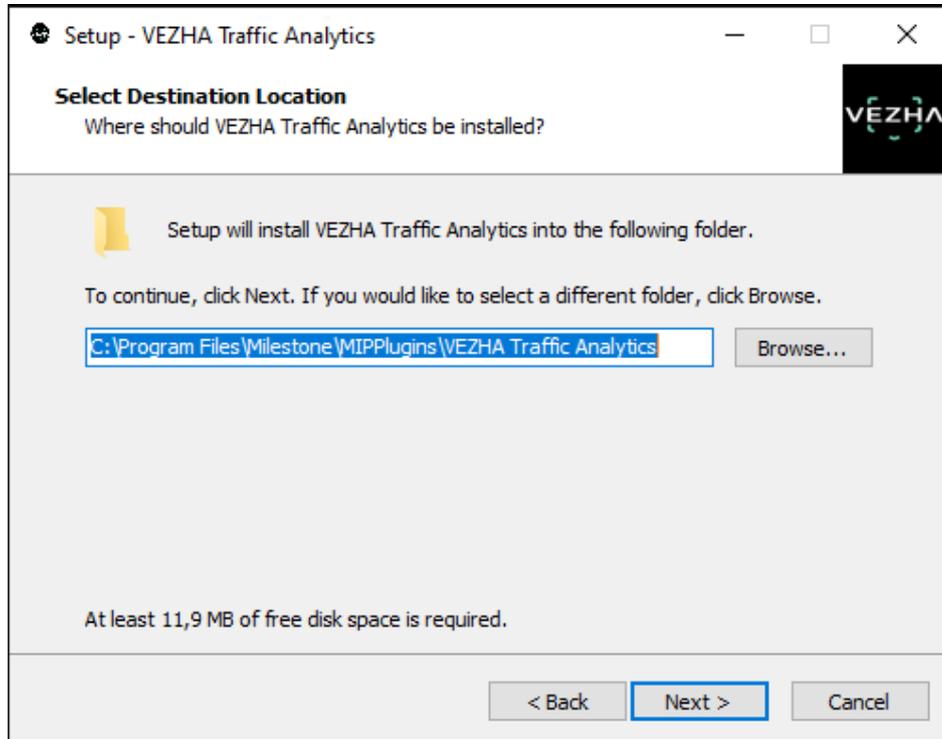
1. Launch the installer by double-clicking on the downloaded file **VEZHA_Traffic-Analytics_Setup**.
2. In the window that opens, select the language that will be used during the installation process. To go further, click **OK**. To abort the installation, click **Cancel**.



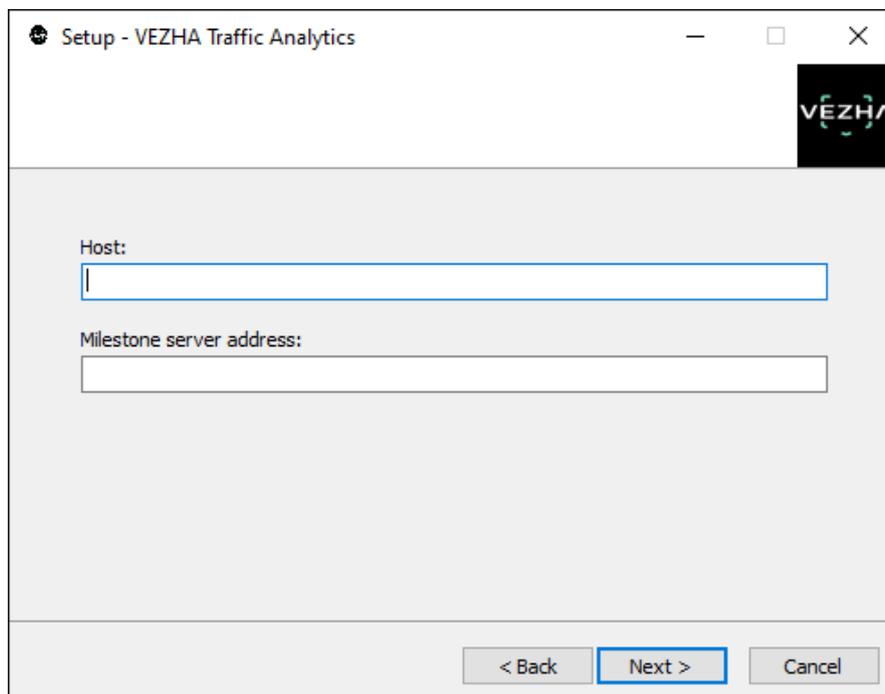
3. In the new window, read the installation recommendations and click **Next** to continue the installation, or the **Cancel** button to abort the installation.



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.

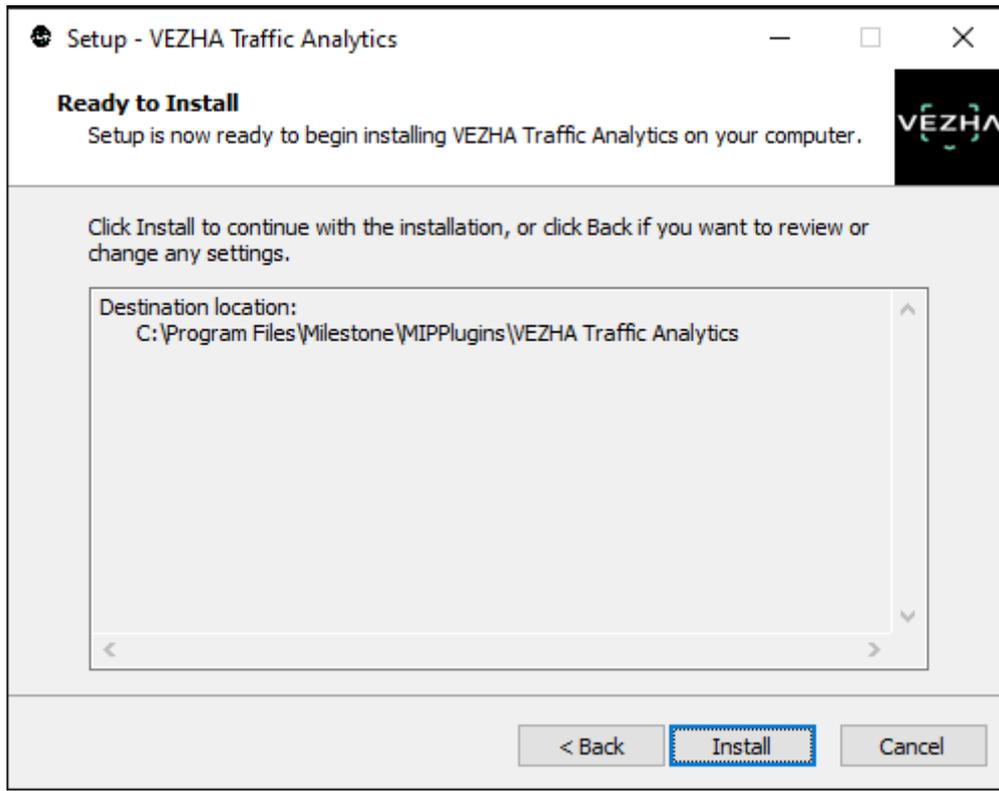


5. In this window, for the program to work correctly, you need to fill in all the fields correctly and click **Next** to continue the installation or **Cancel** to abort the installation.

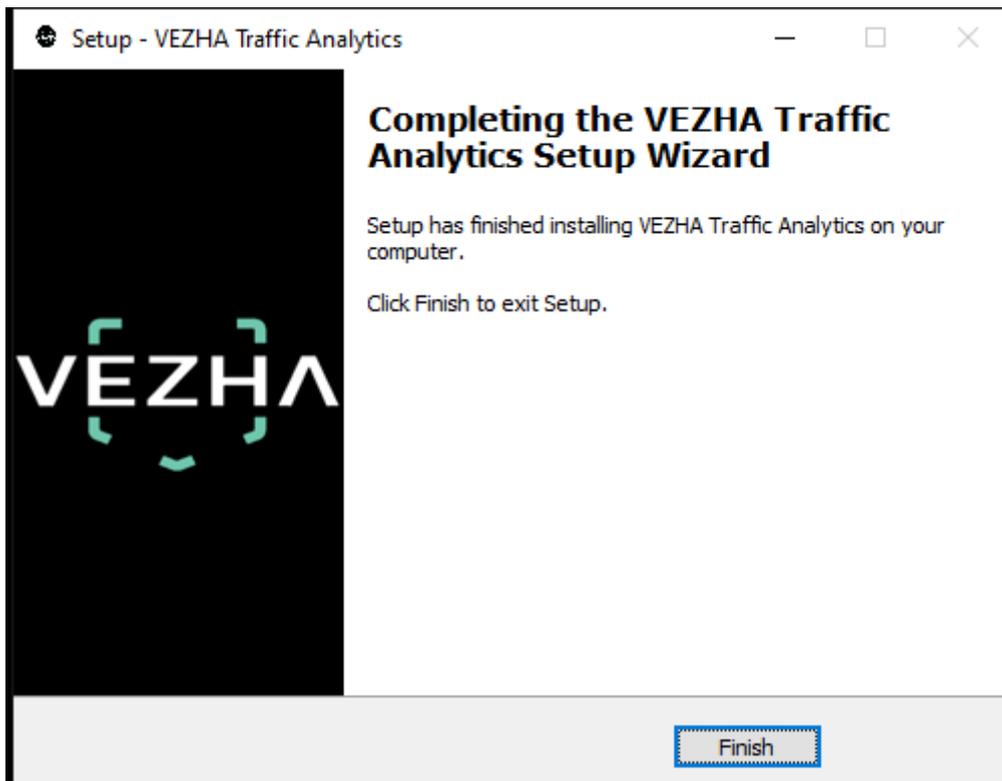




6. Click “**Install**” to start the installation.

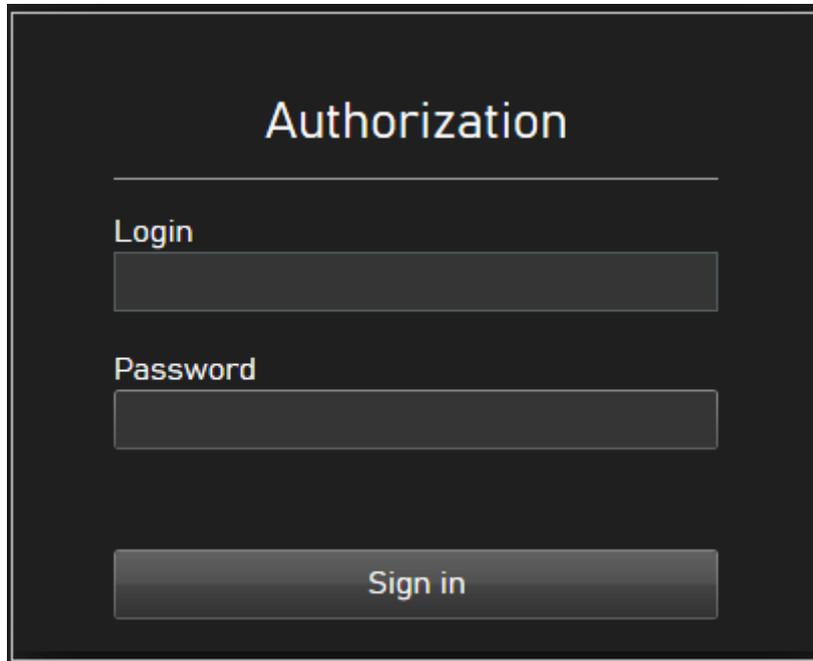


7. After the installation is completed, click **Finish**.



2. Log In

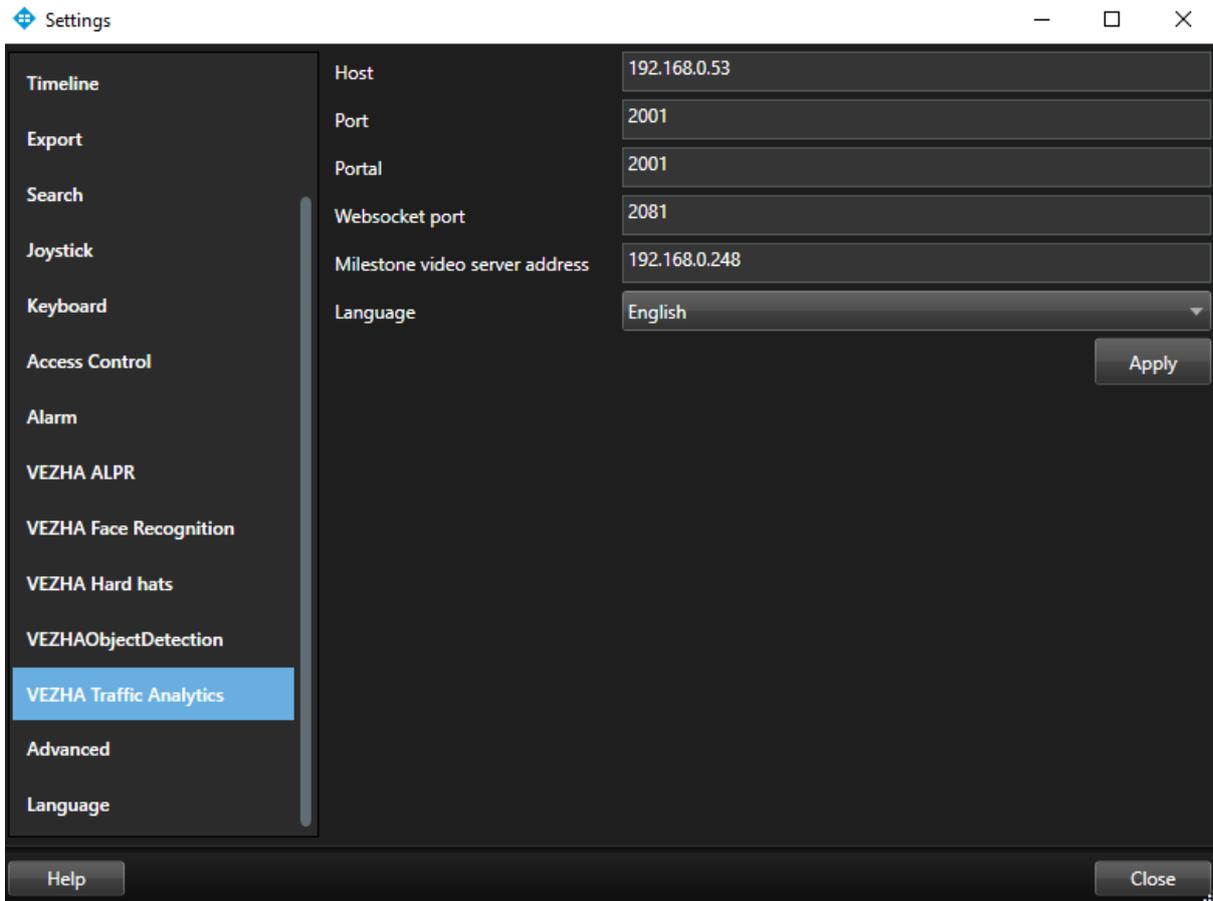
To enter the system you need to go through authorization. To do this, enter the **Login** and **Password** in the appropriate fields of the modal window and click **Login**.



The image shows a dark-themed modal window titled "Authorization". It contains two input fields: "Login" and "Password", each with a corresponding text label above it. Below the input fields is a "Sign in" button.

3. Settings

In order to find **VEZHA Traffic Analytics** settings, click the icon  in the upper right corner of the screen. Select and click **Settings**. In the window that opens, select the **VEZHA Traffic Analytics**.



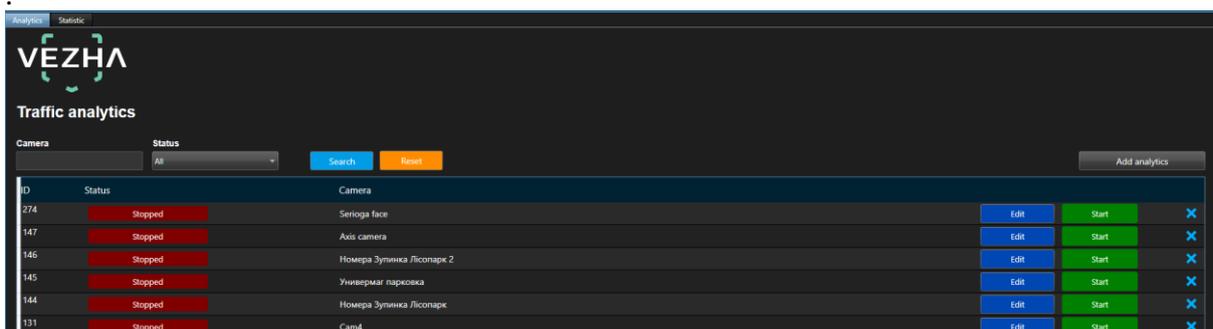
To change the server settings in the **VEZHA Traffic Analytics** tab, you can edit the following fields: **Host**, **Port**, **Portal**, **Websocket port**, **Milestone video server address**.

To change the language, use the **Language** field and select from the list the most convenient for you.

To save the changes, click **Apply** and restart the plugin.

4. Traffic Analytics

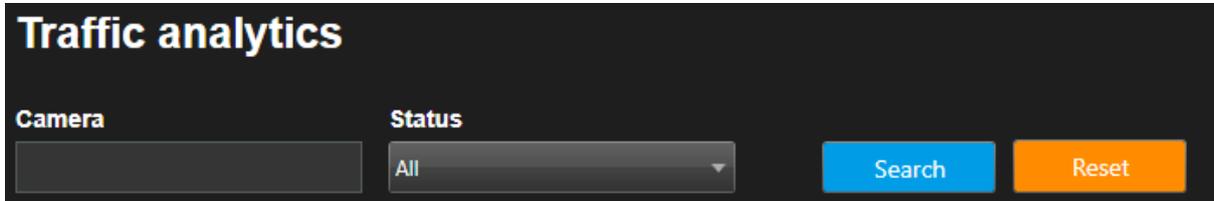
This tab is intended for adding, editing, viewing, deleting and changing the status of analytics.





4.1. Analytics Search

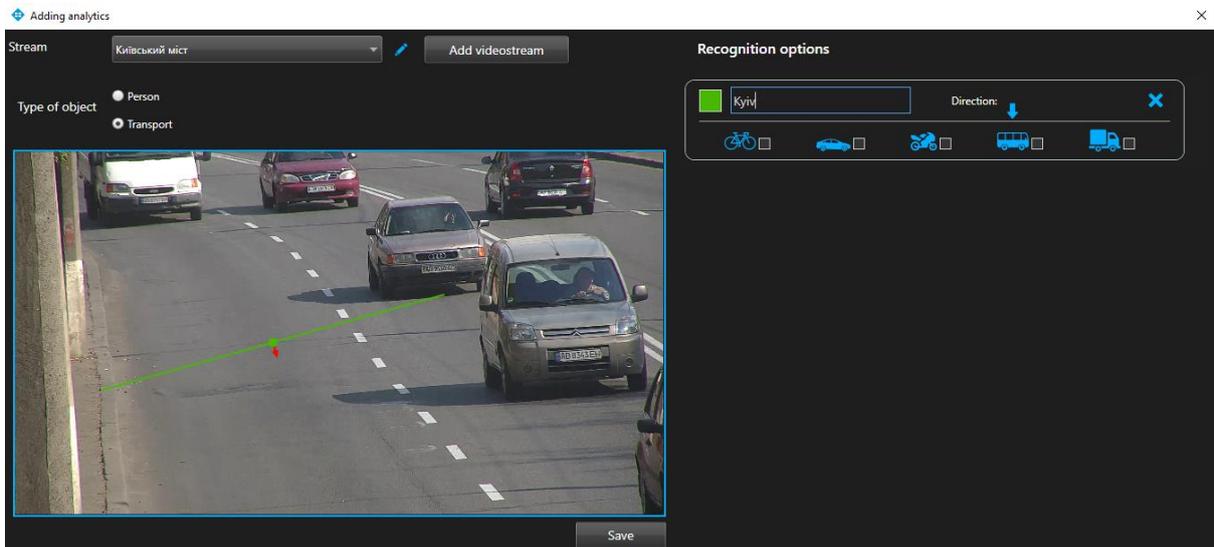
At the top of the screen are located search fields.



To find the desired analytics, enter the name or status of the analytics.
To start the search, click the **Search** button.
To clear the search fields click **Reset**.

4.2. Adding of analytics

To add new traffic analytics, click **Add analytics** in the upper right corner of the screen.
In the window that opens, fill in 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.
Type of Object	Select the type of object (person or vehicle) to track traffic.

Add lines to the workspace. This feature allows you to track traffic objects. To add a line you need:

1. Add a camera into a field **Video Stream** A video from the added camera will appear below the **Video Stream** field.
2. Add a line. In way to add a line:
 - Click on any point in the area where the video stream is located.
 - Click on another point again, after which a line will appear.
 - In order to add another line, repeat the points above.
 - Added lines are fixed in the fields on the right.
 - To delete a line, mouse over the field with the desired line and click on the delete icon in the line block.

You can track the traffic of two types of objects: vehicles and persons.

In order to track vehicle traffic, select the object type **Transport**.

In order to select the necessary type of transport, go to the added line and tick (bicycle, car, motorbike, bus, truck).

1. Enter a convenient name for the line in order to know its purpose (the line counts the traffic of such objects).
2. To indicate the direction in which vehicles will be locked, click **Direction**. After clicking, in the work area, on the line, an arrow will appear that indicates the direction of movement.

To change the direction of travel, click **Direction** again.

Click **Save** to save your changes.

In way to edit video steam click  right of the videostream.

In way to create new video stream click **Add videostream**.

In the opened window fill the next fields:

- Name** - enter the name of the video stream in the field. This field will be displayed in all components of the program that use video streams.
- Login** - enter the name of the current user in the field Milestone.
- Password** - enter the password of the current user Milestone.
- Camera** - choose a camera from the 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.

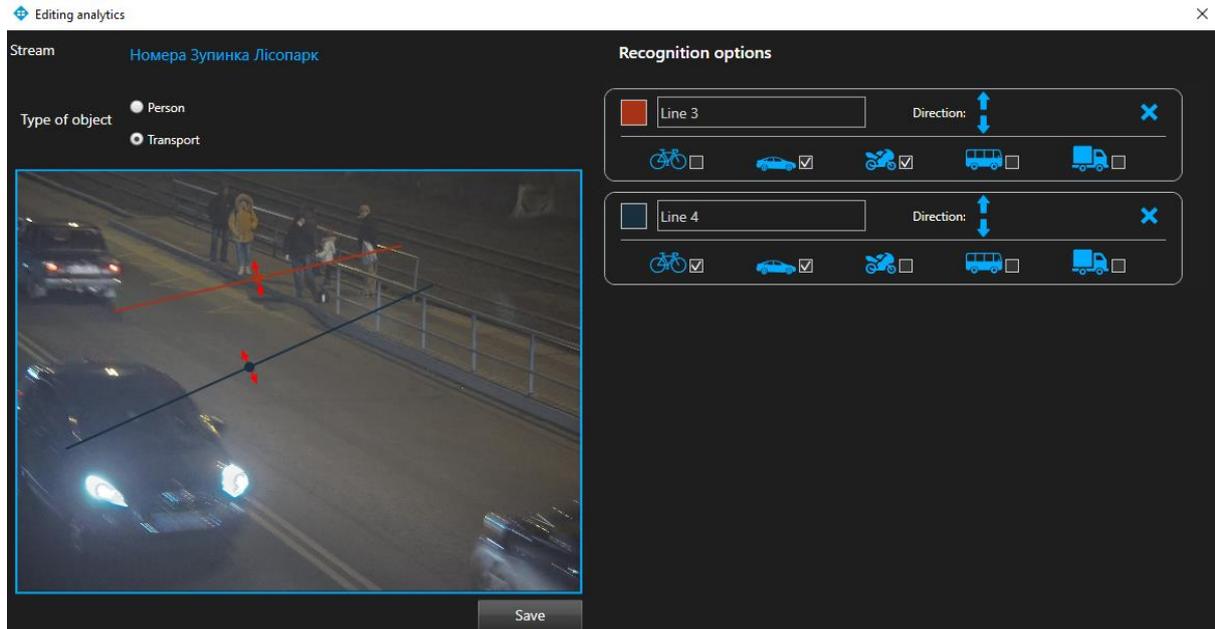
In way to save changes click **Apply**.

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

4.3 Editing, changing status, viewing and deleting a video stream

To edit analytics, click the Edit button on the right side of the entry.

In the window that opens, fill the fields:



Field name	Recommended value
Type of object	Select the type of object (person or vehicle) to track traffic
Recognition options	Parameters used for recognition of selected objects.

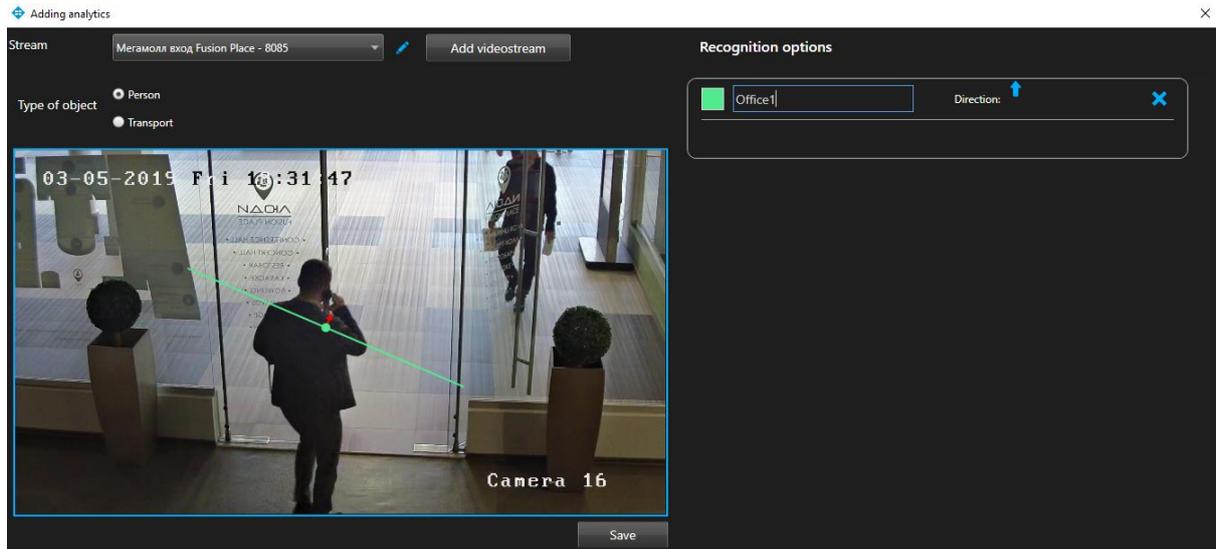
To add a line:

- Click on any point in the area where the video stream is located.
- Click on another point again, after which a line will appear.
- In order to add another line, repeat the points above.
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- To delete a line, mouse over the field with the desired line and click on the delete icon in the line block.

Click **Save**, in way to save changes.



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In way to create analytics click **Save**.
To start or stop analytics click **Start/Stop**.



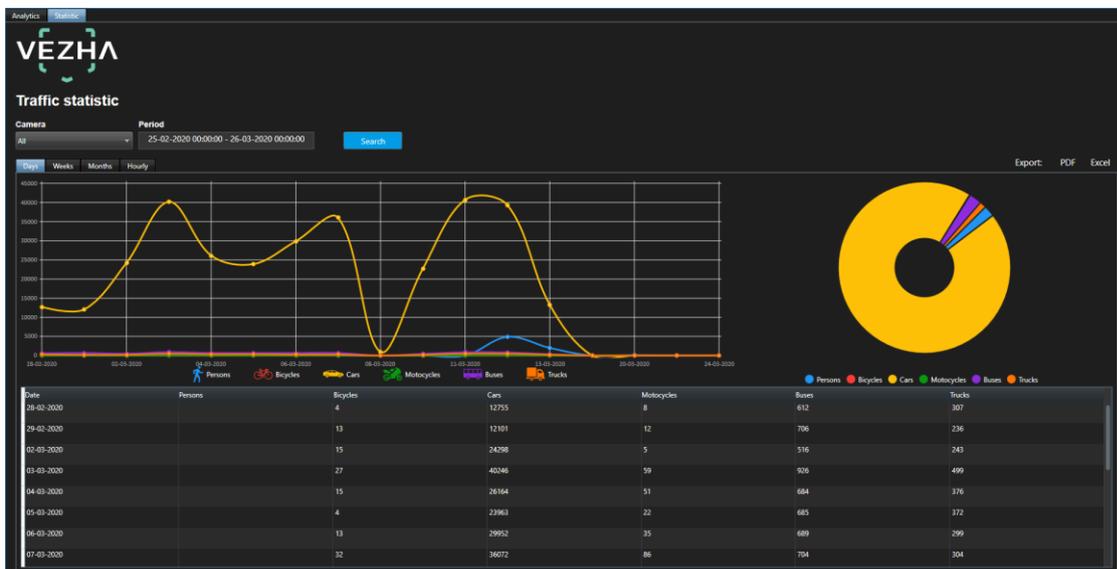
To delete analytics click delete icon



To view analytics click view icon

5. Traffic Statistics

To work with traffic statistics, go to the statistics tab.

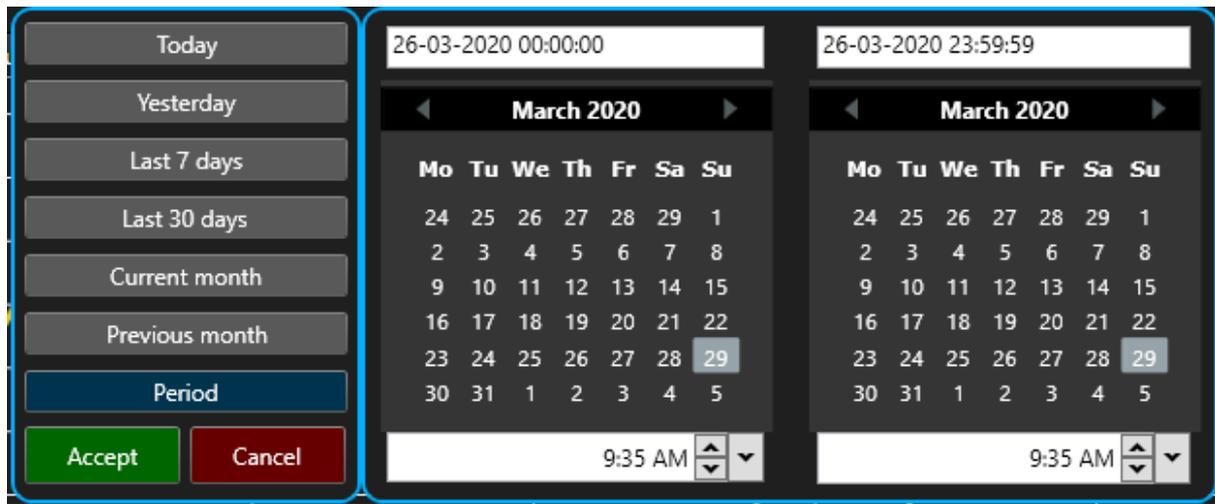


Traffic recognition statistics is developed to generate and create reports on the number of vehicles and people for the period.

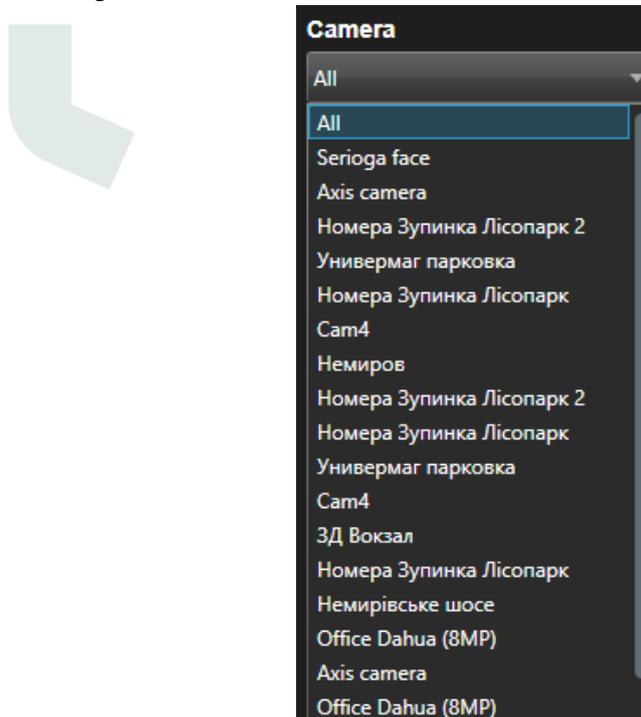
In order to filter vehicle recognition statistics, it is necessary:

1. Choose a period of time for which statistics will be generated.

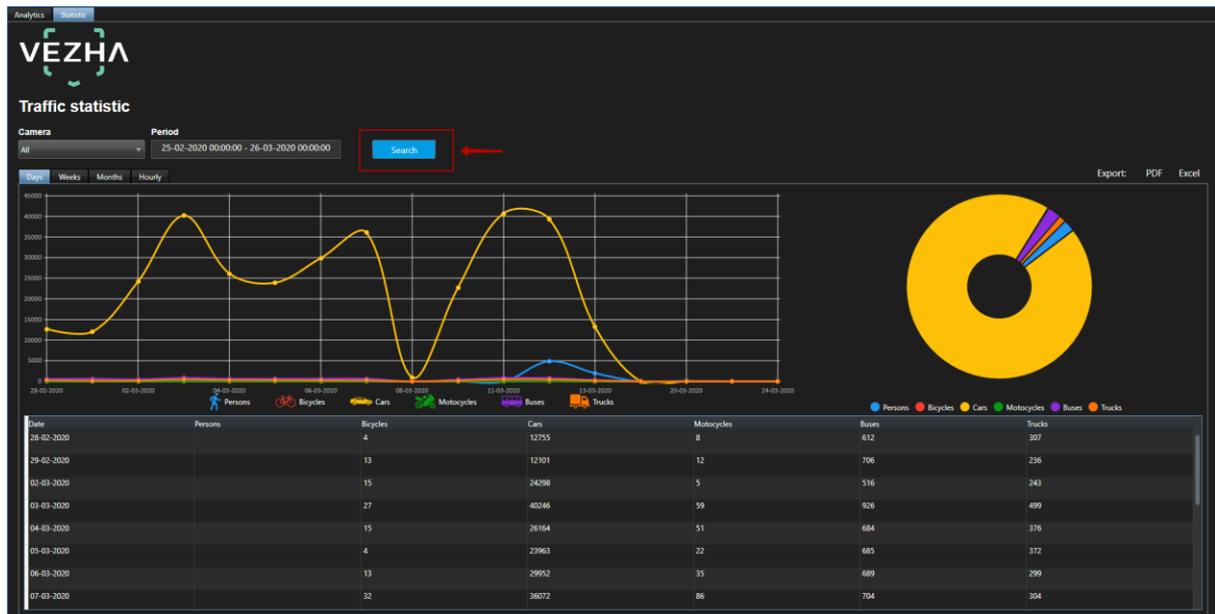
To select a period, one of the values is indicated: today, yesterday, the last 30 days, this month, the previous month, a manually selected period (using the calendar you can specify the range of days and time).



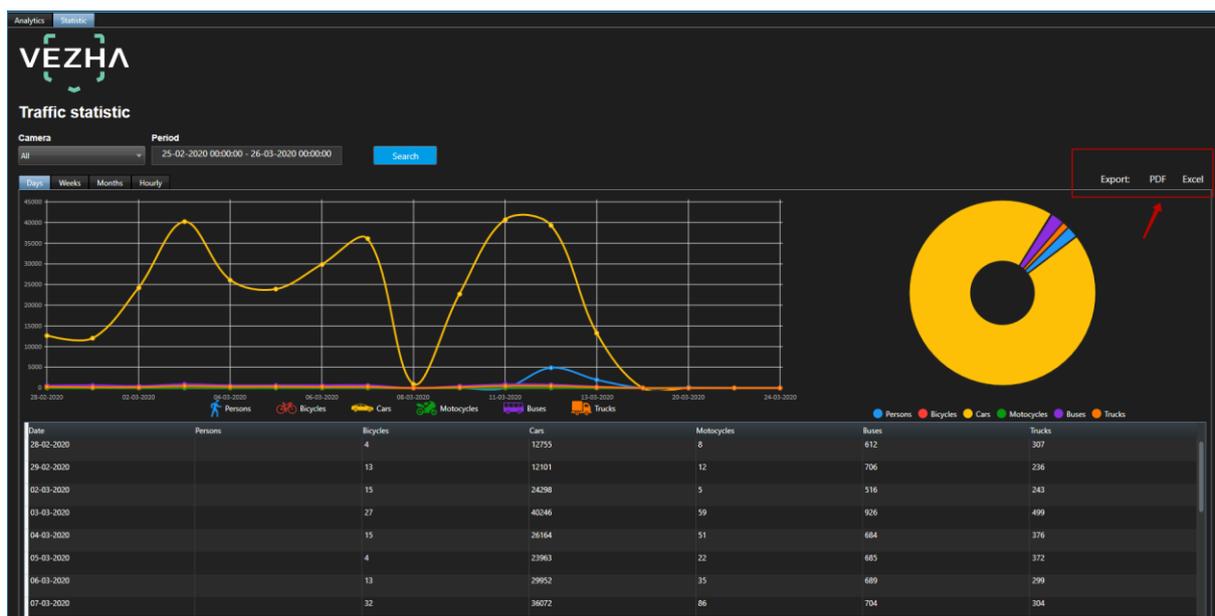
2. Select the camera with which the video stream is taken. You can select **All cameras**, or you can select a specific camera.



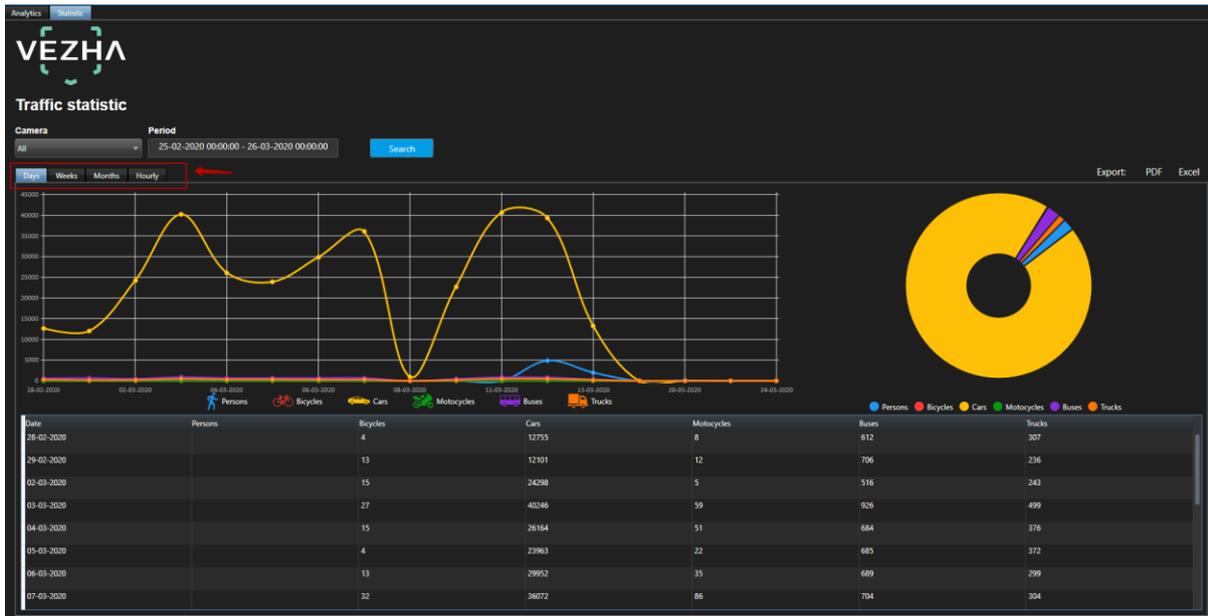
2. Click the **Search** button.



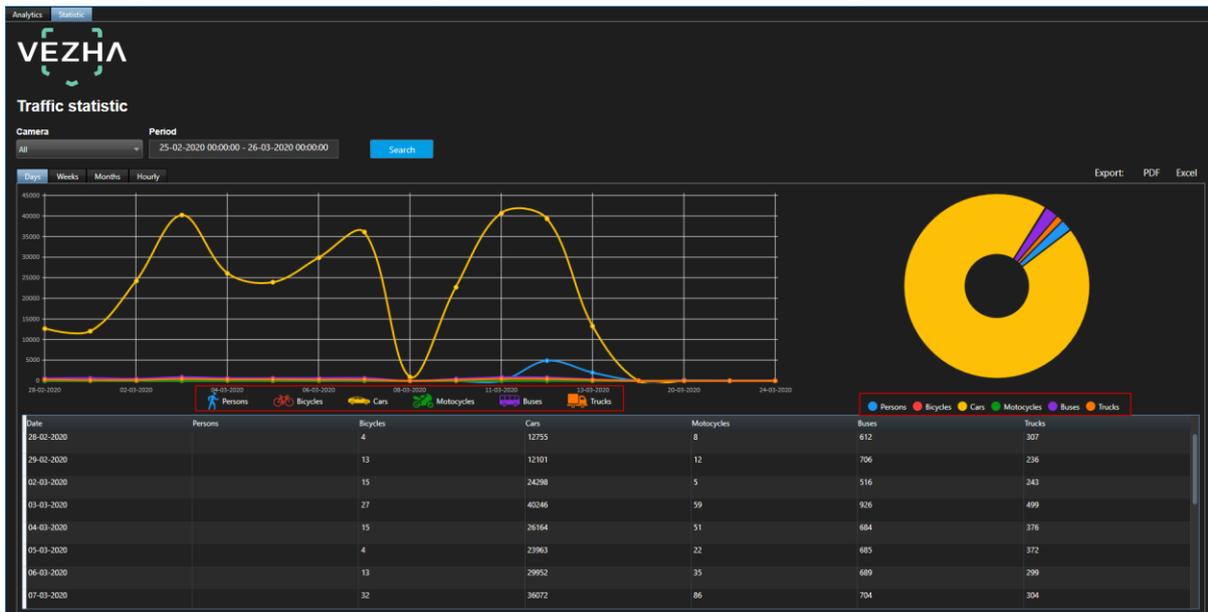
4. To upload reports we use the option to upload a report.



To see statistics by hours, days, weeks, months, select the appropriate tab.



In the **Days, Weeks, Months** tabs, you can remove unnecessary elements from the chart by clicking on the name of the object under the chart or under the pie chart.



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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