VEZHA

User Guide for Face Recognition plugin





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Description of VEZHA Face Recognition Plugin

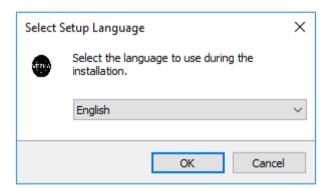
VEZHA Face Recognition Plugin is developed to analyze data from cameras and instantly select and save frames with people's faces.

Main advantages:

- 1) Detecting people from the video stream.
- 2) Verification and identification of persons.
- 3) Determination of additional characteristics (gender, age, emotions, beard, glasses).
- 4) Work with lists the ability to create white / black lists. To identify new customers, VIP customers, criminals.

1. Installation

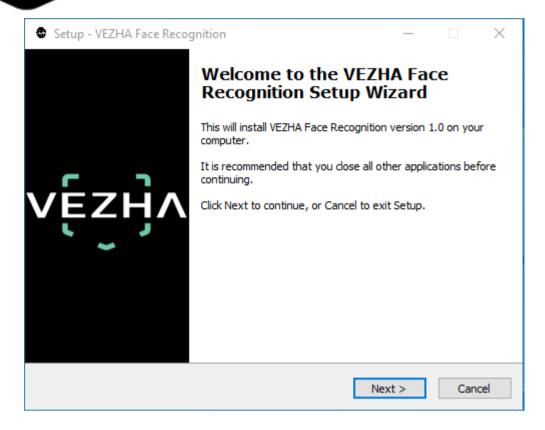
- 1) Launch the installer by double-clicking on the downloaded FACE_REC_Setup
- 2) In the window that opens, select the language for the installation process. To go further, click "OK." To abort installation, click "Cancel".



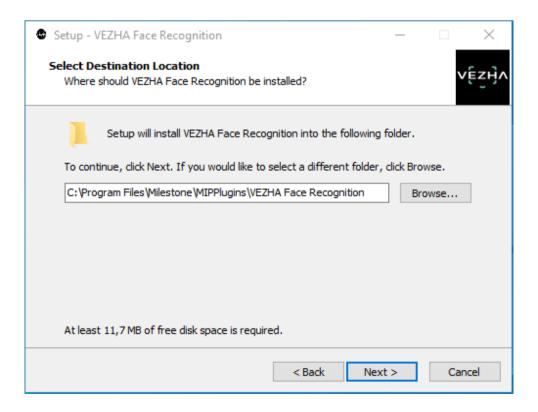
3) Read the installation recommendations in a new window and click the "Next" button to continue the installation, or the "Cancel" button to abort the installation.







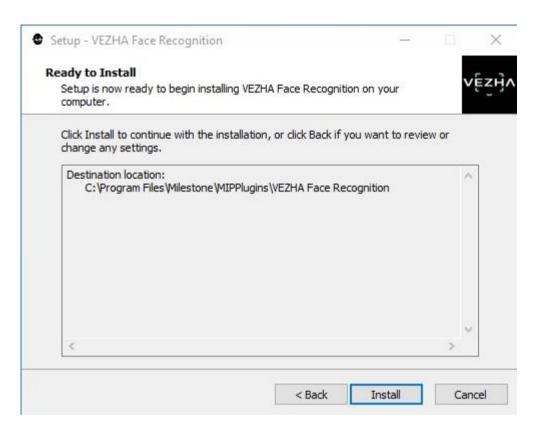
4) In the window "Select installation folder" using the "Browse" button, specify the place where you want to install the plugin. The plugin must be installed in the "Milestone" folder for other plugins. After selecting the desired folder, click "Next" to continue the installation or "Cancel" to abort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







5) Click "Install" to start the installation.



6) After the installation is completed, click "Finish".

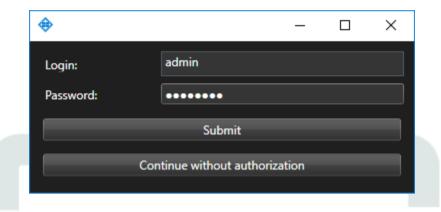






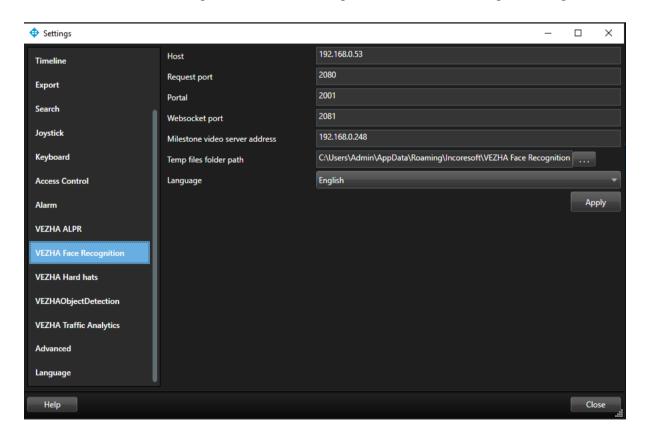
2 Log In

To log in, you need to enter a Username and Password and click the Connect button. If you do not need to login to Face Recognition Plugin, click Continue without authorization.



3. Settings

To find Face Recognition Plugin's settings, click the icon in the upper right corner of the screen. Select and click Settings. In the window that opens, select the Face Recognition Plugin tab.



The Face Recognition Plugin tab has the following fields: Host, Request Port, Storage Path, Websocket port, Server, Temporary Files Path, Language.





To change the server settings, you can edit the fields: Host, Request Port, Storage Path, Websocket port, Server, Temporary Files Path.

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

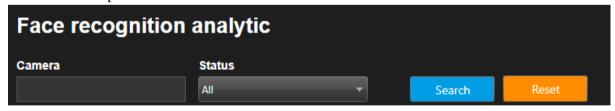
4. Face Recognition Analytics

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 is a search field



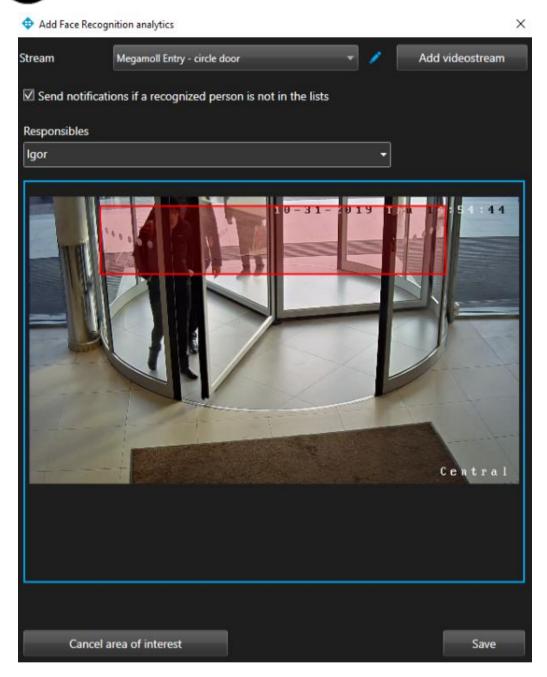
To find the analytics you need, enter the name or status of the analytics. To start the search, click the **Search** button.

4.2 Adding Analytics

To add new analytics of faces, click Add analytics in the upper right corner of the screen. In the window that opens, fill in the fields:







1) Stream

Click on the field and select a camera name from the drop-down list. This video stream will be used to create analytics.

2) Responsibles

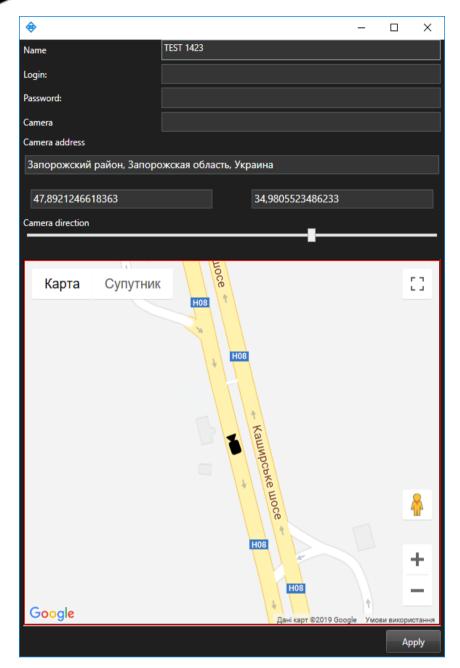
To send notifications about found people to external resources (Telegram, Email, etc.), check the box. After that, a field will appear where you need to select the person responsible (the person to whom the notifications will come) from the drop-down list.

To edit the video stream, click to the right of the name of the videostream.

To create a new video stream, click Add videostream.







In the window that opens, fill in the following fields:

- a. **Name -** enter the name of the video stream. This field will be displayed in all components of the program that use video streams.
- b. **Login** enter the name of the current user in the field.
- c. **Password** enter password.
- d. **Camera** select a camera from the drop-down list.
- e. **Camera address** enter the address in the field, or select on the map below the location of the camera. The system will automatically determine the location coordinates.
- f. **Camera direction** To change the direction of the camera, move the slider. Indication of camera rotation helps in determining the direction of person. To save the changes, click **Apply**.





Adding an area of interest:

- 1. Add a camera to the **Video Stream field**.
- 2. A video from the added camera will appear below the **Video Stream field**.
- 3. Add a zone of interest.

Click in the area where the video from the camera is located and set the area of interest.

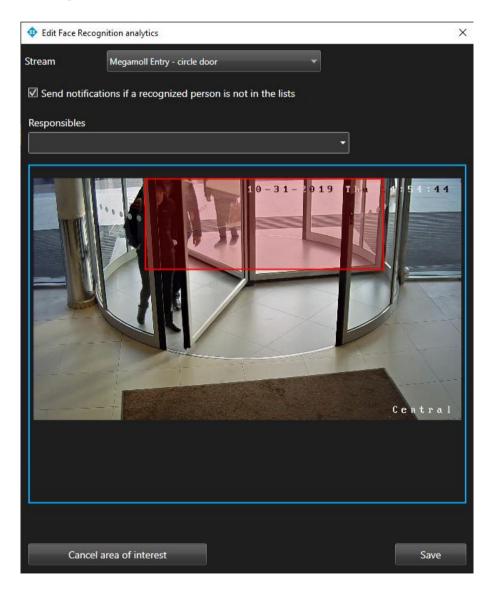
Face recognition will take place in the exposed area.

To cancel the area of interest, click Cancel area of interest.

To create the analytic, click Save.

4.3 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 in the fields:







1) Stream

Click on the field and select a camera name from the drop-down list. The video stream will be used to create analytics.

2) Responsibles

To send notifications about found people to external resources (Telegram, Email, etc.), check the box. After that, a field will appear where you need to select the person responsible (the person to whom the notifications will come) from the drop-down list.

Adding an area of interest:

- 1.Add a camera to the **Video Stream field**.
- 2.A video from the added camera will appear below the **Video Stream field**.
- 3. Add a zone of interest.

Click in the area where the video from the camera is located and set the area of interest.

Face recognition will take place in the exposed area.

To cancel the area of interest, click **Cancel area of interest**.

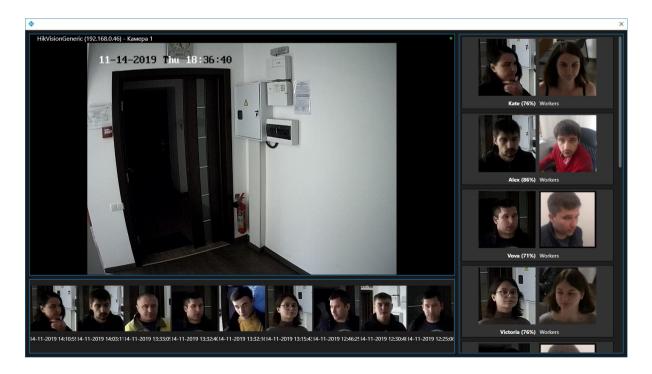
To create the analytic, click Save.

To start / stop the video stream, press the **Start / Stop** button.

To delete a video stream, click



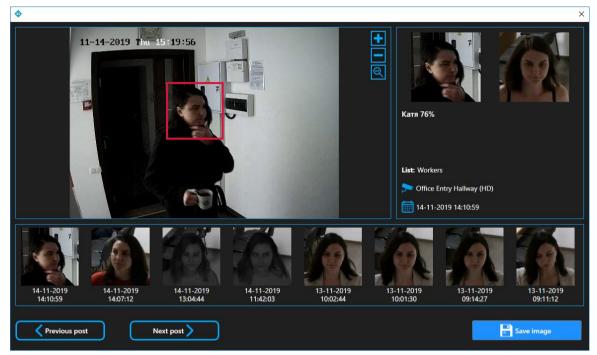
To view the video stream, click



In the analytics form, click on the image of the person to view the extended frame from the camera and information about the person.





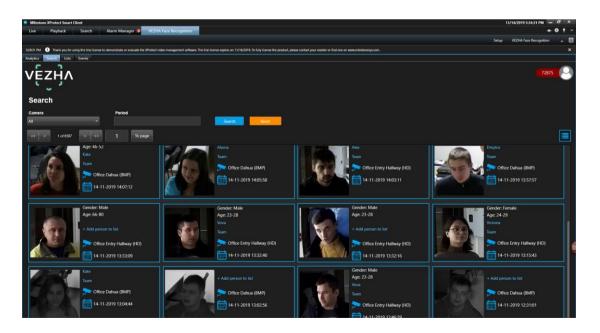


Click "Save Image" to download the image to your computer.

Click the "Previous Record" button to view the last captured frame from the camera.

Click the "Next Record" button to view the next captured frame from the camera

5. Search



In order to find the right person, fill in the fields:

1) Period



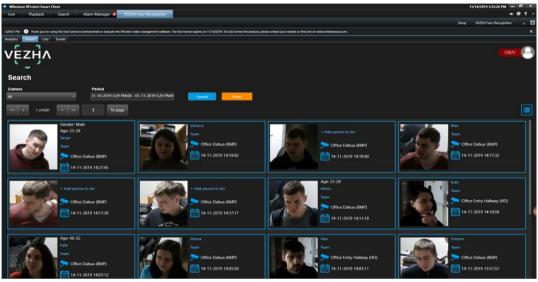


Click on the field and select a period.

2) Camera

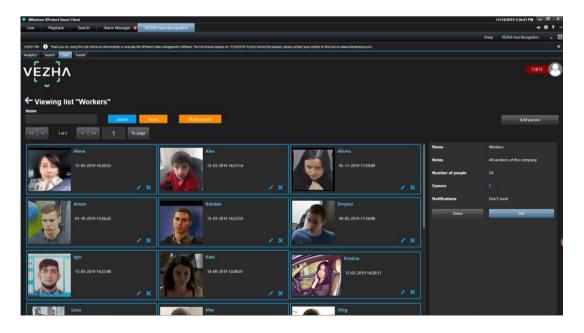
Click on the field and select a camera.

Click **Search** to display the search results. Click **Reset** to clear the input fields. Search results are shown in the table below:



5.1 Work with face recognition records

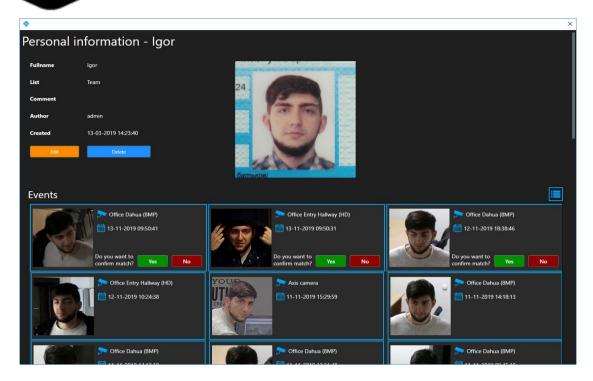
The list of face recognition records consists of fields: face, gender, age, lists, name, video, camera, date. By clicking on the list names, a list view window will appear.



When you click on the name of the person, the window "Personal data of the person" opens.

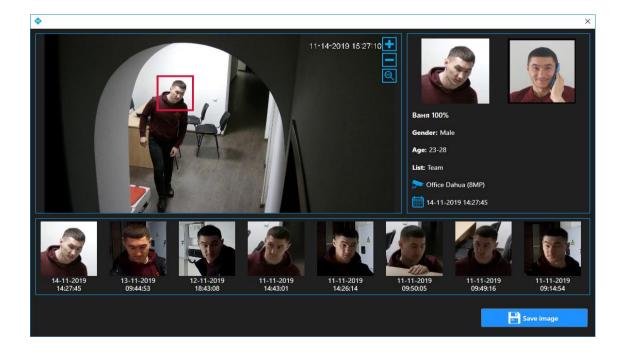






Clicking on button you can view the video stream in real time.

Click on the button on the image to the right of the entry to view detailed information about the person in a new window.





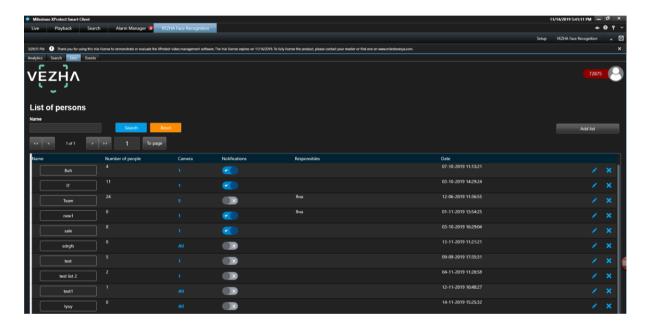




To change the format of entries, click on

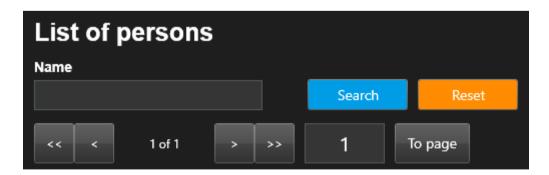
6. Lists

This section is intended to create a database of persons and to divide them into categories.



6.1 Search Lists

At the top of the screen is a search box.



In order to find the desired list of the Lists section, enter its name in the search field.

Click **Search** to display the results.

Click **Reset** to clear the input fields.



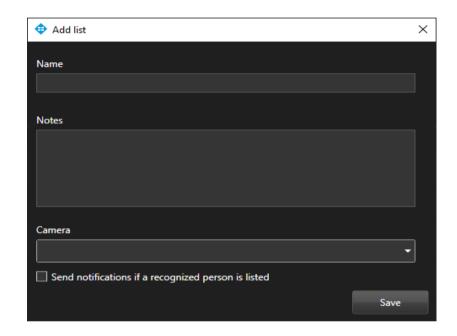


To find a person by image, click Search by photo. Upload a photo by which you want to search.

← Viewing list "Team"			
Name			
	Search	Reset	Photo search

6.2 Adding and Editing Lists

To add a new entry, click **Add List** in the upper right corner of the screen. In the window that opens, fill in the fields:



1)Name

Enter a list name in the box. This field will be displayed in all components of the program that use this list.

2) Notes

This field is intended to describe the purpose of the created record. Enter a description for the list in the Note box.

3)Camera

Click on the field and select cameras from the drop-down list. The selected cameras will search for people's faces.

4) Responsible

To send notifications of found persons to external resources (Telegram, Email, etc.), check the box. After that, a field will appear where you need to select the person responsible (the person to whom the notifications will come) from the drop-down list.

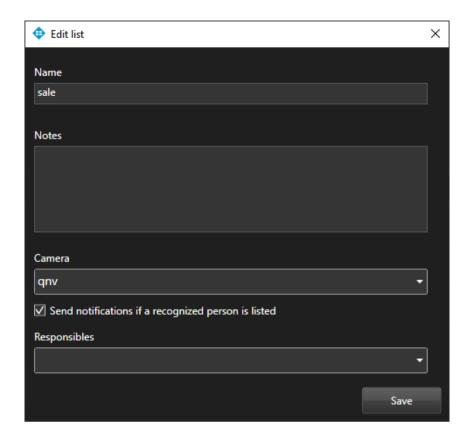
In order for the record to be created, click **Save**.

To edit the record, click to the right of the entry name.

In the window that opens, fill in the fields:







1)Name

Enter a name to the field. This field will be displayed in all components of the program that use this field.

2) Notes

This field is intended to describe the purpose of the created record. Enter a description for the entry in the Notes box.

3)Camera

Click on the field and select cameras from the drop-down list. The selected cameras will search for the vehicle with the specified number.

4) Responsible

To send notifications of found persons to external resources (Telegram, Email, etc.), check the box. After that, a field will appear where you need to select the person responsible (the person to whom the notifications will come) from the drop-down list.

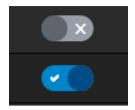
In order for the changes to be accepted, click Save.

To delete a record, click on the right side of the screen.

To stop or activate a notification, put the status slider in the appropriate position:





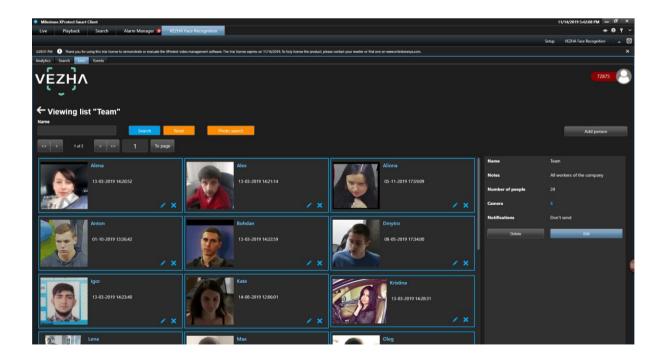


6.3 Viewing Lists

To view information about the cameras that are being monitored in the list, hover over the number of cameras in the list entry.



To view information about the list, click on its name. When clicked, you will go to the list view tab. In order to go back click to the left of the tab name.







6.3.1 Adding and editing a person information

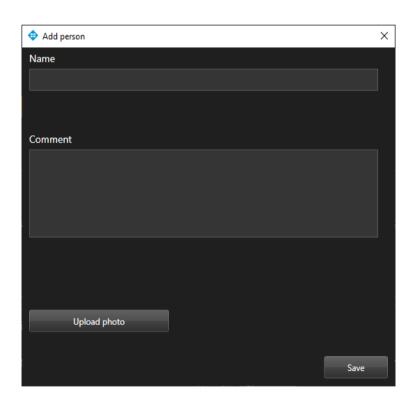
← Viewing list "Team"						
			Search	Reset	Photo search	
<< <	1 of 2	> >>	1 To	page		

In order to find a person, enter her name in the search field.

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

To find a person by image, click **Search** by photo. **Upload a photo** by which you want to search.

To add a new person to the list, click **Add Person** in the upper right corner of the screen. In the window that opens, fill in the fields:



1)Name

Enter the name of the person you want to find in the field. The search will take place on the cameras that were selected when creating the list.

2) Comment

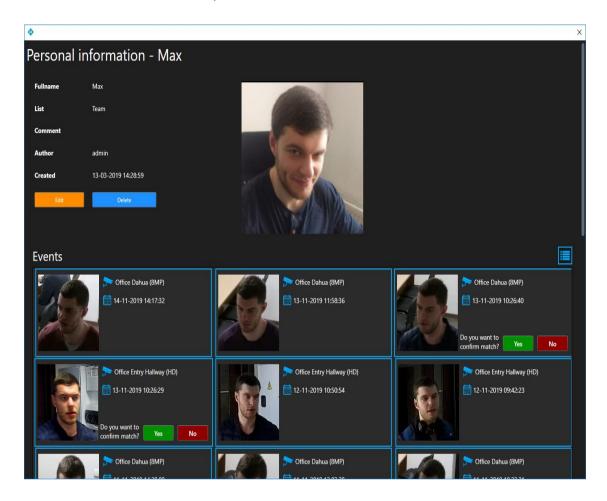
This field is intended to describe the purpose of the created record. Enter a description for the person in the comment field.

3)Upload a photo





Upload a photo of the person. This photo will be used to recognize the person. In order for the record to be created, click **Save.**



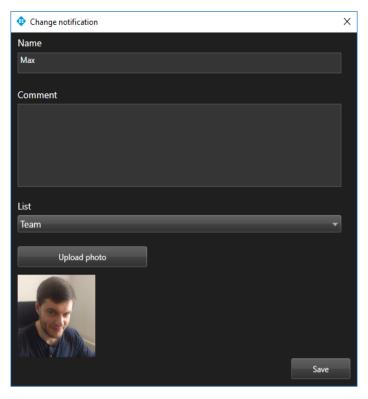
To edit a record, click to the right of the post title.



In the window that opens, fill in the fields:







1)Name

Enter the name of the person you want to find in the field. The search will take place on the cameras that were selected when creating the list.

2)Comment

Enter the text of the notification that will come when a person is detected in the frame.

3)Upload a photo

Upload a photo of the person. This photo will be used to recognize the person. In order for the changes to be accepted, click **Save**.

To delete the list, click Delete.

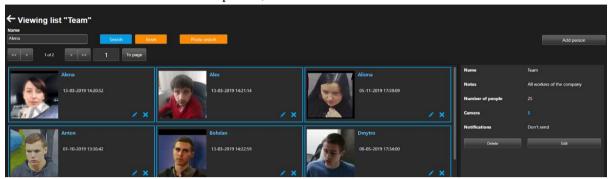
To delete a record, click on the right side of the screen.





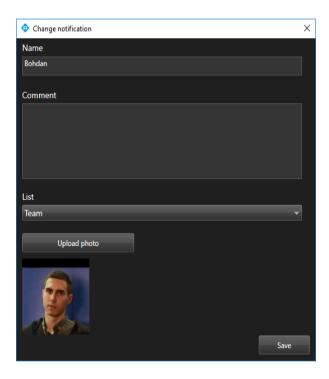
6.3.2 View Person Records

In order to view information about a person, click on her name in the list name field.



Click **Edit** to change your personal data.

In the window that opens, you can change the following fields:



1)Name

Enter the name of the person you want to find in the field. The search will take place on the cameras that were selected when creating the list.

2)Comment

Enter the text of the notification that will come when a person is found.

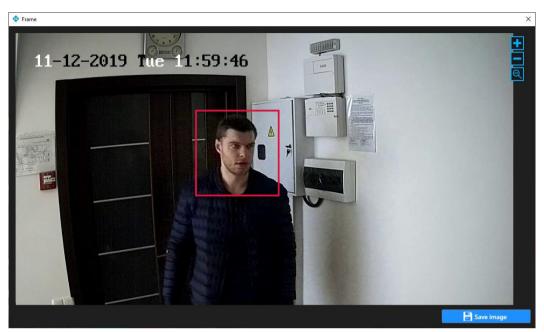
3)Upload a photo

Upload a photo of the person. This photo will be used to recognize the person. In order for the changes to be accepted, click Save.





To view a frame from a recording, click on the Frame on the right side of the photo.



Click **Save Image** to download the person image.



To change the format of entries in the Personal Data window, click

To accept the notification, click Accept on the right side of the entry.

7.Events

This section is intended for viewing the history of notifications about persons.

7.1 Notifications Search

At the top of the screen is a search field



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

1)Name

Enter the name of the person in the field.

2)Period

Click on the field and select the desired time period.





3)List

Click on the field and select the desired list.

4)Camera

Click on the field and select the desired camera.

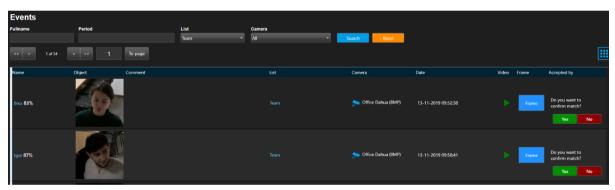
Click **Search** to display the search results. Click **Reset** to clear the input fields.

7.2 Working with face recognition notifications

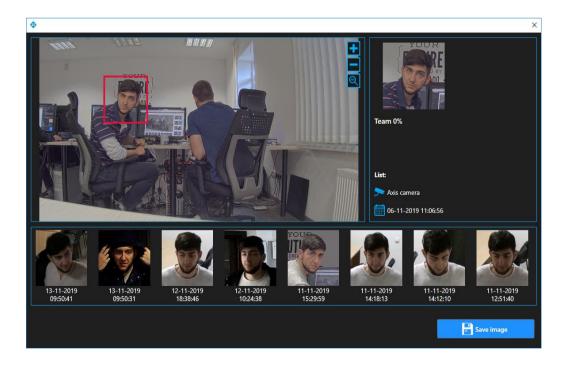


To change the format of the entries, click

The list of notification entries consists of the fields: name, object, message, list, camera, date, video, frame, received.



When you click Frame, a window opens with a picture of the person.





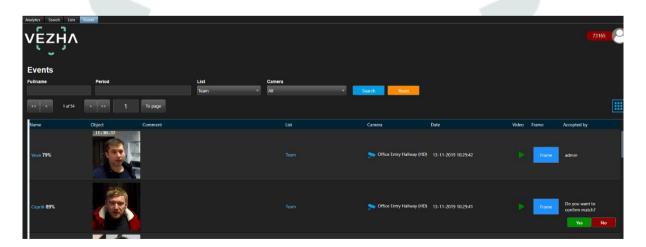


Click on the icon to view the video with the person found.



Click the play icon to start the video.

By clicking on the list name, a window with list entries will open.



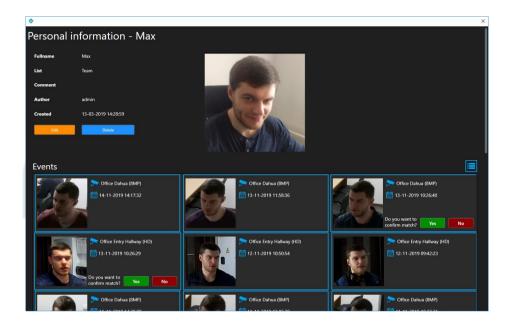
To accept the notification, click Accept or Yes, No - depending on whether the person is on the list or not.





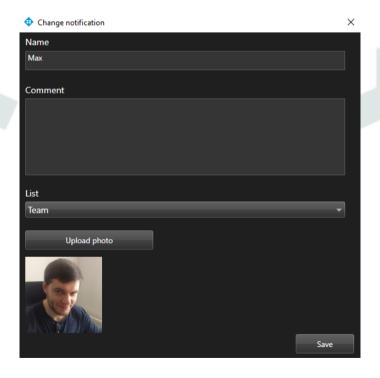
7.2.1 View Person Records

In order to view information about a person, click on her name in the list entry.



Click on Edit to change personal data.

In the window that opens, you can change the following fields:



1)Name

Enter the name of the person you want to find in the field. The search will take place on the cameras that were selected when creating the list.





2)Comment

Enter the text of the notification that will come when a person is found.

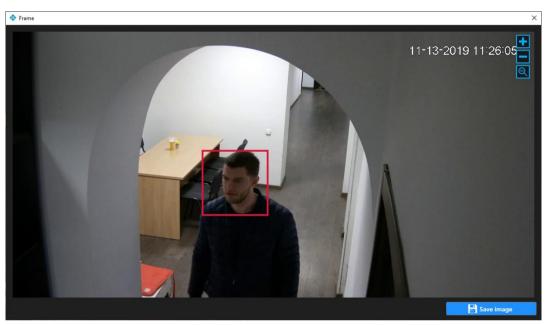
3)Upload a photo

Upload a photo of the person. This photo will be used to recognize the person.

In order for the changes to be accepted, click Save.

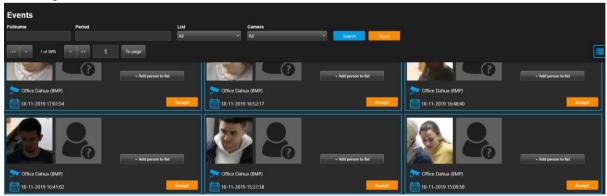
To view a frame from a recording, click on the Frame on the right side of the recording or on

the icon in the photo.



Click **Save Image** to download the person image.

To change the format of entries in the Personal Data window, click



To accept the notification, click **Accept** on the right side of the entry.

