







VEZHA

User Guide for Smoking Detection Plugin







Content

4
5
8
8
9
9
10
13
14
15





Description of VEZHA Smoking Detection

What this module of the VEZHA system can do:

- Recognition and notification about people who are smoking in controlled area.
- Storage and data transmission of smoking events.

Smoking Detection can be used for:

- Prevention of smoking in places not intended for this.
- Monitoring compliance with labor discipline rules.
- Control of fire safety in places of storage of flammable and explosive substances.

Smoking Detection module. How it works:

When a smoking person is detected in the frame, the system instantly sends a notification and records information about the violation event: frame, time and camera.

IncoreSoft



1. Installation

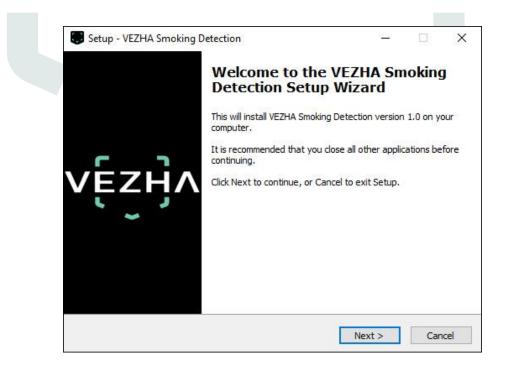
Before installation of VEZHA Smoking Detection PlugIn – Milestone Xprotect Management Client 2020 and Milestone Xprotect Smart Client 2020 R2 need to be installed on Your system.

1) Launch the installer by double-clicking the downloaded file with the left mouse button VEZHA_SmokingDetection_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**.

	Select the language to use during th installation.	e
	English	~
	Ligist	

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 place 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.

Setup - VEZ	ZHA Smoking Detection	1	8 <u>2</u>	- 0	
Select Dest	ination Location				
Where sho	ould VEZHA Smoking Deter	ction be installed?			VEZ
1 s	Setup will install VEZHA Sm	oking Detection into t	he following fo	lder.	
To continu	ue, click Next. If you would	d like to select a differ	ent folder, did	k Browse.	
C:\Progra	am Files Wilestone WIPPlug	gins\VEZHA Smoking D	etection	Browse.	
At least 1	2,3 MB of free disk space	is required.			
		1	-		

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

		vĘ
Host:		
Milestone server address:		

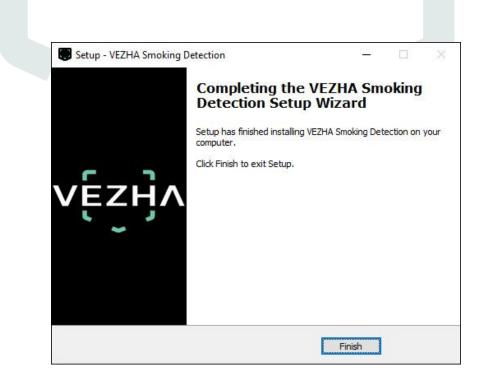




6) Click Install to start installation.

Ready to Instal Setup is now re computer.	ll eady to begin installing VEZ	HA Smoking Detection	on your	vĘz
Click Install to o change any se	continue with the installatio ttings.	n, or click Back if you	want to review o	or
Destination lo C:\Progra	cation: m Files Wilestone (MIPPlugir	ns \VEZHA Smoking Det	ection	~
				>

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 **Sign in**.

	Authorizatior	n)	
Logi	n		
Pass	word		
_	Sign in		

3. Settings

In order to open the **VEZHA Smoking Detection** settings, click the icon in the upper right corner of the screen. Select and click **Settings**. In the window that opens, select the **VEZHA Smoking Detection tab**.

Settings			(77)	
Export	Host	192.168.0.53		
Search	Port	2001		
	Portal	2001		
Joystick	Websocket port	2081		
Keyboard	Milestone video server address	localhost		
Access Control	Language	English		
VEZHA ALPR				A
VEZHA Face Recognition	Authorization			
VEZHA Hard hats	Login			
HeatmapPlugin				
PersonReidPlugin	Password	Sign in Sign out		
SmokeFireDetectionPlugin				
SmokingDetectionPlugin				
Advanced				
Language				

To change the server settings in the VEZHA Smoking Detection 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 most convenient for you.

To make changes, click Apply and reload the plugin.





4. Analytics

This tab is developed to view the list of analytics with the ability to add, edit, delete analytics, view video from active analytics in real time.

	rtics			
iera	Status All ~	Search Reset	Add a	analytics
Status		Camera		
	Stopped	Fire	Start	
	Stopped	Smoking	Start	
	Stopped	Smoking for test-alena1	Start	
	Stopped	test	Start	
	Stopped	Немиров	Start	Ĩ

4.1. Analytics Search

At the top of the screen is a search field.

Smoking a	nalytics			
Camera	Status			-
	All	~	Search	Reset

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





4.2. Add analytics

To add analytics, push button Add analytics.

Analytics Events			339	913
Camera	Status	Search Reset	Add ar	nalytics
ID Sta	atus	Camera		
843	Stopped	Fire	Start	Û
665	Stopped	Smoking	Start	Î
581	Stopped	Smoking for test-alena1	Start	Û
475	Stopped	test	Start	î
416	Stopped	Немиров	Start	Û

New window will appear.

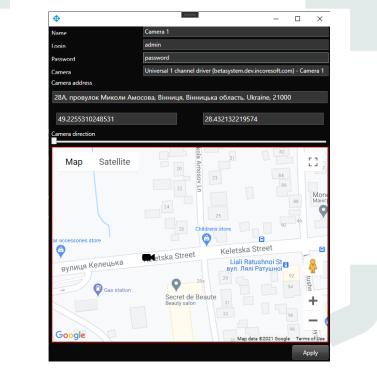
Adding analytics					×
				Recognition options	
Stream	v	Add stream		Recognition options	
Send notification	ons if object is detected				
Notification detect delay					
Alert delay					
Update video	stream	S	Save		





Field name	Description
Stream	Click on the field and select a name from the drop-down list cameras. The video stream will be used to create analytics.
	Check the box Send notifications if smoker is detected to create your own event to send notifications.
Notification detect delay, seconds	The time after which the system will send notifications about detection. The recommended time is 5-10 seconds.
Ū.	Smokers checking frequency. Possible range from 1 to 60 sec. The recommended value is 1 sec.

In order to create new analytics click Add stream.



Fill the fields:

Field name	Description			
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.			
Password	Enter password.			
Camera	Select 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. 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 the vehicle.			

To save changes, click Apply.





Example: Press Stream in selector and choose your stream. Related to this stream picture will appear below.



Then you may set the area you want be detected by drawing any shape you want, for example as a red rectangle on the picture. Also you may mark checkbox **Send notifications if smoker is detected**, set time in seconds in **Notification detect delay** (recommended 5-10 seconds), **Alert delay** (recommended 1 second) and set analytics working time from the right side, but exactly in time format: 00:00:00 - 23:59:59

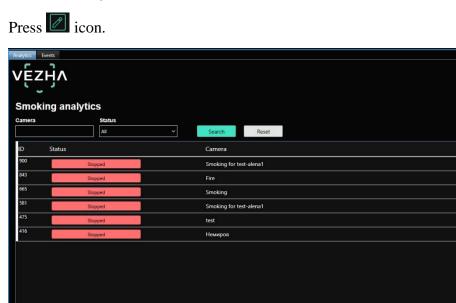
Adding analytics				×
			Recognition options Events	
Stream	Smoking for test-alena1 V 🖉 Add stream]	Recognition options	
Send notification	ons if object is detected			
Notification detect delay	8		00:00:00 - 23:59:59	
Alert delay	1			
Update video	Save			

At the end click button **Save** and wait analytics to be added.

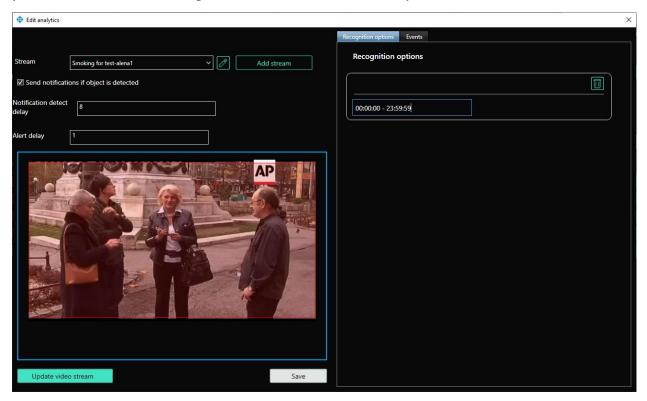




4.3. Edit analytics



The window **Edit analytics** will appear with settings which was set when analytics were added. If you want edit detection area press icon to delete it. Then you can set a new area.



When all changes are done you should press button Save and wait until all changes are saved.





4.4. Start, Stop, Watch Analytics

When your analytics are ready you may start any by pressing button start. When it needs to be stopped you should press red button stop. Also you may watch running analytics by clicking corresponding icon on picture below.

mera	analytics Status				
	All	✓ Search Reset		Add a	nalytics
Stat	tus	Camera			ļ
° 🦲	In work	Smoking for test-alena1		Stop	۵
	Stopped	Fire		Start	[
	Stopped	Smoking	Ø	Start	
	Stopped	Smoking for test-alena1	Ø	Start	
	Stopped	test	Ø	Start	[
	Stopped	Немиров	P	Start	







5. Events

Next section in VEZHA Smoking Detection Plugin menu is Events.

Analytics Events					33913
Camera	Period				
All	1 То раде	Search	Reset		
Camera	Date		Video	Accepted by	AP
Smoking	18-02-2021 15:54:04		Þ	Accept	
Smoking	18-02-2021 15:53:43			Accept	
smoking	18-02-2021 13:07:14		Þ	Accept	
Smoking	18-02-2021 13:07:13		Þ	Accept	Camera name
Smoking	18-02-2021 13:06:52		Þ	Accept	Smoking
Smoking	18-02-2021 13:06:16		4	Accept	
Smoking	18-02-2021 13:06:15		Þ	Accept	
	18-02-2021 13:05:45		-		

You may review all pictures one by one and if accept it click button Accept.

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

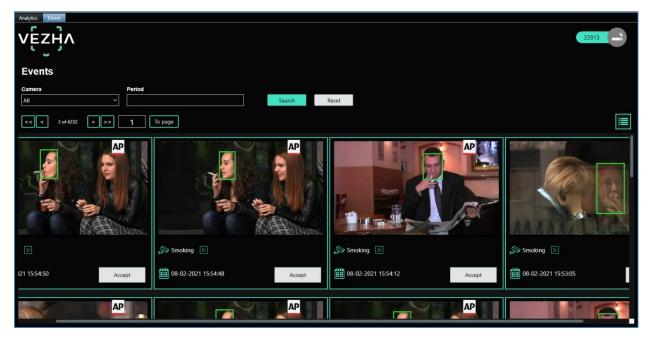
Events			
Camera	Period		
All Y		Search	Reset
All		Search	Neber

Field name	Description
Period	Select period of time for which the search will be performed.
Camera	Select the cameras by which search will be performed.

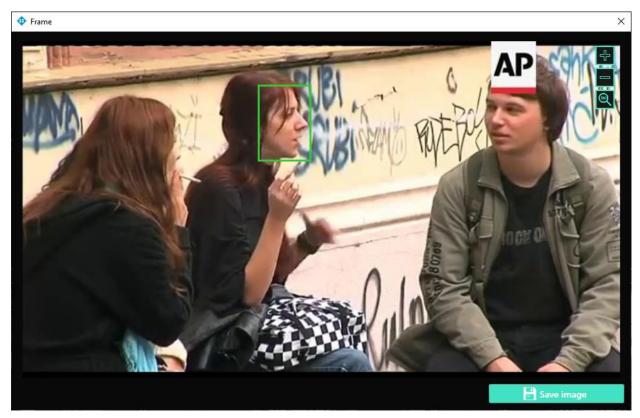




Click icon to open events as a grid. Click to see it as a list.



In order to enlarge the frame click on the photo of interest (when using the grid view) or click on the enlargement icon when using the list view.



Then you may save image by clicking button Save image.



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/



Ukraine, Vinnitsa vezha@incoresoft.com +38 (044) 599-30-03 Monday - Friday: 9 AM - 7PM

