









User Guide Gender Age







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Description of Gender/Age:

- Determines the gender of a person: male or female.
- Determines the age of a person in the age range.
- Generation of reports on gender and age with uploading to pdf, Excel.

1. Installation

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

Vezha_GenderAge_Setup.exe.

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	Setup Language X
۲	Select the language to use during the installation.
	English
	OK 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 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.

	cation		
Where should VEZHA	Gender Age be installed?		
🣜 Setup will in	stall VEZHA Gender Age ir	to the following fol	der.
To continue, click Nex	t. If you would like to sel	ect a different folde	r, click Browse.
C:\Program Files\Mile	estone\MIPPlugins\VEZHA	Gender Age	Browse
At least 11,8 MB of fr	ee disk space is required.		





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.

2.	Setup - VEZHA Gender Age		8. .	-
				vĘz
	Host:			
	Milestone server address:			
		< Back	Next >	Cancel
ſ	lick Install to start installation			
C	nek instan to start instanation.			
	_			
	💭 Setup - VEZHA Gender Age		<u> </u>	
	Ready to Install Setup is now ready to begin installing VE7H	lå Gender Age op vi	our computer	vezija
	Setup is now ready to begin installing vE2		oar compacer.	
	Click Install to continue with the installation	ı, or click Back if you	want to review o	ŕ
	change any settings.			
	C:\Program Files\Milestone\MIPPlugins	VEZHA Gender Age	•	
	<			>
		< Back	Install	Cancel

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 **Username** and **Password** in the appropriate fields of the modal window and click **Login**.

Authorization	
Login	
Password	
Sign in	





3. Settings

In order to open Gender/Age settings, click the icon **under** in the upper right corner of the screen. Select and click **Settings**. In the window that opens, select the **Gender Age Plugin** tab.

💠 Settings					8.		×
Application	Host	192.168.0.53					
Panec	Port	2001					
Panes	Portal	2001					
Functions	Websocket port	2081					
Timeline	Milestone video server address	192.168.0.248					
Export	Language	English					•
Search						Appl	y .
Joystick	Authorization						
Keyboard	Login						
Access Control							
CrowdDetectionPlugin	Password		Sign in	Sign out			
GenderAgePlugin							
QueueDetectionPlugin							
Advanced							
Language							l
Help						Clos	e

To change the server settings in the VEZHA GENDER/AGE 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.

1.1. Gender/Age Module - User's Guide.

To open this item, select Gender/Age in the top menu.





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Live	Playback Search	Vezha Crowd detection Vezha Gende	er/Age Vezha Queue detection			🔶 😧 📍
					Setup	GenderAgePlugin
Analytics	Events					
VE						
	•					
Gen	ider/age analytics					
Camer	a Status		Baat			d analytics
		Search	Reset		Au	u analyucs
ID	Status	Camera				
593	Stopped	Камера 7	_585_пилот		Start	Ū
566	Stopped	Face/Gan	ider Age_Cyprus		Start	Î
547	Stopped	Tecr-v2			Start	1
537	Stopped	Face			Start	Û
476	Stopped	Кирилл F	удин		Start	Î
371	Stopped	Немиров			Start	- Î
318	Stopped	Romsat			Start	1
284	Stopped	тест			Start	Î
282	Stopped	Номера 3	Вупинка Лісопарк 2	Ø	Start	Î
267	Stopped	тест		Ø	Start	I
266	Stopped	тест		Ø	Start	Î
265	Stopped	тест			Start	Î
256	Stopped	Номера 3	Зупинка Лісопарк 2		Start	Ū
249	Stopped	Немиров		Ø	Start	Î

Gender/Age module consists of the following sections:

Section name Description									
Analytics Section is intended for creating, editing, and control (enabling, di analytics for determining the gender and age of people in the cameras view.									
Statistics	This section is intended for viewing statistics of Gend	der/Age module							

- 4. Gender / Age Analytics
- <u>Analytics Adding</u>
- <u>Analytics Editing</u>
- Working with Analytics

In order to view analytic select Gender/Age in the left menu and pass into section Analytics.





🔹 Mileston	e XProtect Smart Clien	t						12	/29/2020 4:3	6:58 PM 🗕 🛛	o x
Live	Playback	Search \	ezha Crowd detection	Vezha Gender/Age	Vezha Queue detection	1				+ 6	99
									Setup	GenderAgePlugir	n (
Analytics	Events										
VE-											
V E 2											
	•										
Gend	der/age ana	lytics									
Camera		Status									
		All	~	Search	Reset					Add analytics	
ID	Status			Camera							
593		Stopped		Камера 7_585_пи	пот			Ø	Start		î
566		Stopped		Face/Gander Age_	Cyprus				Start		Î
547		Stopped		Тест-v2					Start		Û
537		Stopped		Face					Start		î
476		Stopped		Кирилл Рудин					Start		Û
371		Stopped		Немиров					Start		Û
318		Stopped		Romsat					Start		Î
284		Stopped		тест					Start		Û
282		Stopped		Номера Зупинка Ј	Ісопарк 2			Ø	Start		Û

4.1 Adding Gender/Age Analytics

The page displays a list of analytics with the status and the ability to edit, add, or delete analytics. In order to add a new analytics, press **Add Analytics** in the upper-right corner of the screen.

🔶 Milestor	ne XProtect Smart	t Client		52	1997	12	/29/2020 4:37:28	РМ <u> </u>
Live	Playback	Search	Vezha Crowd detection	Vezha Gender/Age	Vezha Queue detection			+ 0 f
							Setup Ge	nderAgePlugin [
Analytics	Events							
VE.								
	~							
Gene	der/age a	analytics						
Camera		Status						
		All	~	Search	Reset		Add	analytics
10	Chabun			Comoro				
1D 503	Status			Camera		_		
		Stopped		Камера 7_585_пи	лот	Ø	Start	
566		Stopped		Face/Gander Age_	Cyprus		Start	Ū
547		Stopped		Тест-v2			Start	Ū
537		Stopped		Face			Start	Î
476		Stopped		Кирилл Рудин			Start	ī
371		Stopped		Немиров			Start	Û
318		Stopped		Romsat		P	Start	Û
284		Stopped		тест			Start	Û
282		Stopped		Номера Зупинка Ј	Лісопарк 2	Ø	Start	Û

When press Add Analytics the form of analytic adding is opened.







By pressing **Update Video Frame** button you can see a frame in real time in the field of frame addition. It is possible if videostream was selected.

For adding of analytics it is necessary to fill the following fields:

Field Name	Description
Videostream	Press in the field and select the camera name from a drop-down list. Videostream will be used to create analytics.
Minimum Face Height	Establish the minimum size of the face which will be recognized by analytics. Minimum possible value is 80 pixels.
Maximum Face Height	Establish the maximum size of the face which will be recognized by analytics.

Adding an Area of Interest

- 1. Add camera to **Videostream** field.
- 2. A video from the added camera will appear below Videostream field.





- 3. Add area of interest.
- a) Press Add Area of Interest. Red color area appears.



b) Using the tools at area edges, reduce and set the area to the desired location for definition.

The displayed area will be used for face recognition and identification of their gender and age.

In order to cancel the area of interest, press Cancel Area of Interest.

To create the analytics, press Save.

4.2 Analytics Editing

To open the edit window, press the edit icon on the right side of the analytics record.

Gende	Gender/age analytics											
Camera	Status		Search	Reset					Add ar	alutics		
ID	Status		Camera	Reser					Audian	aiyaca		
593	Stopped		Камера 7_585_пило	ют					Start	Î		
566	Stopped		Face/Gander Age_Cyprus						Start	Î		
547	Stopped		Тест-v2						Start	Û		
537	Stopped		Face						Start	Û		
476	Stopped		Кирилл Рудин						Start	Ũ		
371	Stopped		Немиров					Ø	Start	Î		





When press the edit icon, analytics editing form is opened.

💠 Edit analytics	×
Start	
Stream Face/Gander Age_C	yprus
Min face height 50	?
Max face height	0
Cancel area if interest	Update video stream Save

It is possible to change the analytic if the analytic is not started.

In order to run analytics, press Start. To stop analytics, press Stop.

By pressing **Update Video Frame** button you can see a frame in real time in the field of frame addition.

Field Name	Description
Minimum Face Height	Establish the minimum size of the face which will be recognized by analytics. Minimum possible value is 80 pixels.
Maximum Face Height	Establish the maximum size of the face which will be recognized by analytics.

System user can change the following fields:





Changing the Area of Interest

a) Press Add Area of Interest. Red color area appears.



b) Using the tools at area edges, reduce and set the area to the desired location for definition.The displayed area will be used for face recognition and identification of their gender and age.In order to cancel the area of interest, press Cancel Area of Interest.

To create the analytics, press Save.

4.3 Working with Analytics

Search field is located at the top of the Analytics page

Analytic Search





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

To start the search press **Search** button. To clear the settings, press **Reset**.

Video analytics system

Search Field	Parameters
Camera	It is possible to enter videostream name or part of the name in this field
Status	Select the Analytics status from the drop-down list

Analytics Start and Delete

To start analytics, press Start button on the right side with analytics name field. To stop analytics, press **Stop** button.

ID	Status	Camera			
593	Stopped	Камера 7_585_пилот		Start	Û
566	Stopped	Face/Gander Age_Cyprus		Start	Î
547	Stopped	Тест-v2	Ø	Start	Û
537	Stopped	Face		Start	Î
476	Stopped	Кирилл Рудин		Start	Û
371	Stopped	Немиров	Ø	Start	Û
318	Stopped	Romsat	Ø	Start	Û
284	Stopped	тест	Ø	Start	Î

To delete analysis, click delete icon on the right side of analytic field.

ID	Status	Camera	-	
593	Stopped	Камера 7_585_пилот	Start	Û
566	Stopped	Face/Gander Age_Cyprus	Start	Ū
547	Stopped	Tect-v2	Start	Ū
537	Stopped	Face	Start	Î
476	Stopped	Кирилл Рудин	Start	Û
371	Stopped	Немиров	Start	Û
318	Stopped	Romsat	Start	Û

In opened window click **Yes** to confirm the deletion or **No** to cancel the deletion.





Analytics Viewing

To view Analytics, press the icon on the right side of the screen.

M	lilestone XPro	tect Smart Cli	ent		a	41	10 - C		12/3	0/2020 10:10	:10 AM	_ 0 ×
L	ve Pla	layback	Search	Vezha Crowd detection	Vezha Gender/Age	Vezha Queue detection						+ 0 f
										Setup	GenderA	gePlugin [
Anah	ytics Events	s										
v	Ęzŀ	٩										
G	ender/	age ar	alytics									
Ca	imera		Status									
			All	~	Search	Reset				1	idd analy	ytics
п	D S	Status			Camera					/	-	
5!	93		Active		Камера 7_585_пи	лот			Ø	Stop		٩
51	66		Active		Face/Gander Age_	Cyprus				Stop		0
5	47		Stopped		Тест-v2					Start		î
53	37		Stopped		Face				1	Start		Û
4	76		Stopped		Кирилл Рудин					Start		Û

It is possible to view only active videostreams.

5. Gender/Age Module – Statistics

In order to view heat map statistics select **Gender/Age** in the left menu and pass into section **Statistics**.

Milestone XPi	otect Sr	nart Client				L										12/30/2	020 10:16:41	AM _ 0	×
Live	laybac	k Sear	ch Vez	ha Crowd dete	ection	Vezha Gender	/Age V	ezha Queue d	letection									+ 0	۴
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	_																		
Statisti	с																		
Camera			30-11-2020	00:00:00 - 30	-12-2020 00:0	0:00		~	0	arch									
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		41-45	43-50	46-50	51-56	51-55	56-60	57-65	61-65	66-	80		43-50	46-50	51-56	51-55 56-6	0 57-65	61-65	
Date	5-7	8-15	8-16	16-21	17-21	22-30	31-35	36-40	36-42	41-45	43-50	46-50	51-56	51-55	56-60	57-65	61-65	66-80	
01-12-2020	0	o		, v	1305	11/72	1304	U	2618	U	6527	U		o	U	v	0		
02-12-2020					2680	24119	2675		5362		13373								
03-12-2020					2674	24040	2630		5309		13146								
04-12-2020					2683	24148	2684		5365		13414								
05-12-2020	0	0		0	2684	24145	2682	0	536 4	0	13408	0	0	0	0		0	3	
06 10 2020					2600	24140	2002		546		12400								
06-12-2020	U	U	°	Ů	2680	24149	2052	•	5365	v	13408	v	0	U.	v	Ŷ	ľ.		



Gender/Age Statistics is intended for reports generation and creation on the number of persons of a certain gender and age for a specified period.

In order to filter statistics it is necessary to perform the following actions:

1. Select the time period for which statistics will be generated.

Statistic				
Camera All ~	Period 01-12-2020 00:00:00 - 31-12-2020 23:59:59 All Search			
Days Weeks Monthes		Export	PDF	Excel
	57 0515 0516 0521 0721 0230 03133 0465 0680 57 0550 0550 556 0	0 31-35 0 57-65	36-40 61-6	s • 34

To select a period, enter one of the following values: today, yesterday, last 7 days, last 30 days, this month, previous month, manually selected period (using calendar specify a range of days and times).

2. Select camera. It is possible to select All cameras, or specific camera.

Statistic		
Camera	Period	
All ~	01-12-2020 00:00:00 - 31-12-2020 23:59:59 All Scarch	
АІІ Камера 7_585_пилот	Export PDF Es	cel
Face/Gander Age_Cyprus Tecr-v2		
Face Кирилл Рудин		
Нениров Romsat		
тест Номера Зупинка Лісопарк 2		
тест тест		
тест Номера Зупинка Лісопарк 2		
Нениров		
01-12-2020	06-13-2020 16-13-2020 21-13-2020 21-13-2020 21-13-2020 08-15 08-16 16-21 17-21 22-30 31-35 36-40 04-39 04-59 51-55 51-56 51-55 51-56 51-55 55-660 51-55 56-60 51-55 51-56 51-55 55-56 51-55 51-56 51-55 51-56 51-55 51-56 51-55 55-660 51-55 51-56 51-55 51	34

3. Select the desired gender. It is possible to select All, or specific gender.

Statistic											
Camera	Period										
All ~	01-12-2020 0	00:00:00 - 31-12-2020 23:59:59	All ~	Sear	ch						
Days Weeks Monthes			All						Export	PDF	Excel
30000		1	Female								
								5			
01-12-2020	8-15 06-1	2-2020 8-16 16-21 1 7-	-21 22-30 31-35	36-40 21-3	12-2020 36-42	5-7 🔵 8-15 🍯	8-16 0 16-21	17-21 22-30	31-35	36-40	36

4. Press **Search** button.





Male

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

01-12-2020 00:00:00 - 31-12-2020 23:59:59

All

Statistic	
Camera Period M 01-12-2020 00:00:00 - 31-12-2020 23:59:59 Male Scarch	
Days Weeks Monthes	Export PDF Excel
2000 2000 1000 0 132020 0 57 0 15 0 150 0 1621 012 1145 0 150 0 1621 012 0 135 0 560 0 115 0 576 0 115 0 560 0 155 0 155 0 560 0 115 0 560 0 155 0 576 0 115 0 560	57 0 815 0 846 0 5155 556 0 5155 0 546 0 5765 0 646

In **Days**, **Weeks**, and **Months** tabs, it is possible to remove unnecessary items from the chart by clicking on the item name under the chart or pie chart.

Days	Weeks Monthes						Export	PDF	Excel
150000									
100000									
					_				
30.11.2020	- 6.12.2020 7.12.2020 - 7.12.2020 - 8-15 5-7 8-15 41-45 43-50	13.12.2020 14.12.2020 8-16 16-21 17- 46-50 51-56 51	20.12.2020 21 22-30 21.12 1-55 56-60 57-6	2020 - 27.12.2020 36-40 5 61-65 66-80	28.12.2020 - 3.1.2021 5-7 8-15	8-16 16-21 17-21 22-34) 31-35	36-40	36





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.

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