sagitech.pro

SAGITECH 🖒

Sagitech VMS

Quick Start Guide

Version 2.4

About Sagitech VMS

Sagitech VMS is a software suite used to manage video surveillance systems built on the basis of IP cameras. With its help you will be able to:

- watch real-time videos via surveillance system's IP cameras, webcams, video servers and IP video recorders, using an unlimited number of layouts;
- record video data in a distributed archive using a specified set of conditions and a timetable;
- navigate and replay synchronized/non-synchronized recordings of several different cameras simultaneously;
- work with a set of local or geographically distributed servers from one client place;
- implement smart search for data stored in an archive using the following filters: search area, minimum/maximum object size, visual traits of an object;
- use smart functions built into the IP cameras;
- use a variety of video capturing settings (different video streams from one camera) for different viewing/recording conditions;
- implement control of PTZ cameras (cameras with panoramic view, zooming, tilting module, presets management);
- implement copying and export of images in playback mode, and access the archive;
- carry out export of video data stored in an archive in standard video formats, as well as fast export to Sagitech Video format;
- search for new cameras and automatically add them using detection protocols; or network scanning and analysis;
- automatically detect a model of a particular camera during its configuration;
- use digital zooming on playback videos (both recorded and real-time);
- determine a flexible hierarchical security system based on users and groups with detailed parameters of accessing system objects;
- enable simultaneous access to a system by multiple users via network, along with ability of remote system's configuration;
- allow for real-time monitoring and to review the archive via a web browser and mobile clients;
- receive data of Sagitech VMS server via the HTTP-interface in order to perform an integration with third-party software and hardware systems;
- perform actions (e.g., sending SMS messages or e-mails, running an external application) on a specific condition (motion detection, loss of connection to camera, etc.);

- monitor availability and status of a set of servers with cameras thereon;
- conduct surveillance on multiple monitors or multiple windows, with each monitor (window) displaying video data from several cameras;
- adjust users' layouts using the administrator's credentials from a remote workplace;
- carry out control of cameras which are not displayed on the operator screen ("Security" mode).

Preparing your computer for installation

To maximize the productivity of the equipment, it should be prepared for the system installation.

Due to the fact that contemporary antivirus programs monitor the network traffic, it is not advisable to install any of these on the target machine. In case such installation may not be avoided, the antivirus scanning of HTTP and RTSP traffic should be disabled, otherwise the performance level will be significantly impaired. At best, the Sagitech VMS executable files should be added to the list of trusted applications.

It is also recommended to disable the firewall or, if that can't be done, open the Sagitech network ports – 11011 and 11012.

In order to run the application on the server you will need Administrator rights to secure access to the registry and to the drives, which rights are needed to manage the video archive. That is why Users Account Control (UAC) should be turned off for the computer acting as server, with subsequent "Never notify" mode activation.

It is also recommended to disable the processor's energy-saving mode in the BIOS and to set Windows energy-saving profile to its maximum performance.

Software components

Sagitech VMS is composed of two components (modules):

- Server, which performs a video/audio/event recording together with processing users requests.
- **Client**, which is the software installed on a client computer in order to perform different types of communication with the server (such as real-time viewing of videos from cameras, work with archives and server configuration).

Both components are installed from a single setup file. To install client software only, disable the "Server application" component on the "Components Selection" tab in the installation wizard.

🚏 Setup - Sagitech VMS	- 🗆 X	🔀 Setup - Sagitech VMS — 🗆 🗙
	Welcome to the Sagitech VMS Setup Wizard	Select Destination Location Where should Sagitech VMS be installed?
SAGITECH 🔈	This will install Sagitech VMS 2.3.0 on your computer. It is recommended that you close all other applications before continuing. Click Next to continue, or Cancel to exit Setup.	Setup will install Sagitech VMS into the following folder. To continue, click Next. If you would like to select a different folder, click Browse.
		At least 145,0 MB of free disk space is required.
	Next > Cancel	< <u>B</u> ack <u>N</u> ext > Cancel
Setup - Sagitech VMS Select Components Which components shou	Id be installed?	B Setup - Sagitech VMS — X Select Start Menu Folder Where should Setup place the program's shortcuts? Image: Comparison of the program's shortcuts in the program's shortcuts in the program's shortcuts in the program's shortcuts in the program is shortcuts in the program in the program is shortcuts in the program is shortcut in the
Select the components y install. Click Next when y	rou want to install; clear the components you do not want to you are ready to continue.	Setup will create the program's shortcuts in the following Start Menu folder.
Full installation	~	To continue, click Next. If you would like to select a different folder, click Browse.
Server application		Sagitech VMS Browse
Current selection require	es at least 257,8 MB of disk space.	English
n n n n n n n n n n n n n n n n n n n	< <u>B</u> ack <u>N</u> ext > Cancel	< <u>B</u> ack <u>N</u> ext > Cancel

🙀 Setup - Sagitech VMS —	×	📳 Setup - Sagitech VMS — 🗆 📉 🗙
Select Additional Tasks Which additional tasks should be performed?		Ready to Install Setup is now ready to begin installing Sagitech VMS on your computer.
Select the additional tasks you would like Setup to perform while installing Sagited VMS, then dick Next.	th	Click Install to continue with the installation, or click Back if you want to review or change any settings.
 Create desktop icons Sagitech VMS Client Sagitech VMS Player Sagitech VMS Server Sagitech VMS Event Viewer Sagitech VMS Server Configuration Wizard Sagitech VMS Server Control 		Destination location: C:\Program Files\Sagitech VMS Setup type: Full installation Selected components: Server application Client application Start Menu folder: Sagitech VMS
< Back Next >	Cancel	< <u>B</u> ack Instal Cancel
🕮 Setun - Sanitech VMS —		all Setur - Sanitach VMS

🔁 Setup - Sagitech VMS	– 🗆 X	😽 Setup - Sagitech VMS	- 🗆 🗙
Installing Please wait while Setup installs Sagitech VMS on your computer.			Completing the Sagitech VMS Setup Wizard
Extracting files C:\Program Files\Sagitech VMS\amd64\avcodec-56.dll		SAGITECH ▷	Setup has finished installing Sagitech VMS on your computer. The application may be launched by selecting the installed shortcuts.
			Click Finish to exit Setup.
			Run Server Configuration Wizard
Fasilish			
ELIQIDI -	Cancel		Einish

Activation and initial server configuration

After installing **Sagitech VMS** server software, the server setup wizard will start. It will perform the following tasks:

• Software suite activation

In order to enable unrestricted work of the server side component, you will be required to enter the serial number of the software suite which you've got with the purchase. One serial number can be used for activation on a single computer only. In the absence of a serial number, the software may also be used in a demo mode.

- Creating password for a default system administrator account.
- Selection of a desired method for server startup.

The server can be launched in both application mode and system service mode (recommended). Under the first scenario, the server will be placed in the system tray and will only work during active session of a user. Under the second scenario, the server will be managed via the "Services" snap-in.

Sagitech VMS Server Configuration Wizard	X Sagitech VMS Server Configuration Wizard
	Activation
	6
Server contiguration wizard	Select necessary activation type
This wizard will guide you through the process of activation and initial configuration of yo video surveillance server. Press Next to continue	r la transmission de la transmis
	Activate application Activation will enable you to use application as a fully functional professional video surveillance system
	recreation millionable yea o dee approation de a rany randiente procedente video de rollance system.
	O Use trial version
	Use application in limited mode without activation.
< Back Next > Cancel	< Back Next > Cancel
Statisch VMS Sarver Configuration Winard	Southersh VMS Conver Configuration Winard
Activation	Activation
×6	
Select necessary activation method	Provide your serial number
Online activation	Serial number
The wizard will connect to the server via the Internet and activate the software automatically.	Enter the unique product key (in the xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Offline activation	
You will need to send a request via email to our customer service.	
< Back Next > Cancel	< Back Next > Cancel



*

Sagitech VMS Server Configuration Wizard		×
Startup method		
Select necessary server launch mode		
O Manual execution		
The server will be launched manually from the Start menu.		
O Start automatically for the current user		
The server will be automatically launched in application mod	le when the current user logs in.	
Start automatically for any user		
The server will be automatically launched in application mod	de when any user of this computer logs in.	
Start automatically when the computer starts		
The server will be launched in service mode. The execution Control panel.	control will be available through the Services snap-in of the	
 Recommended for constant server operation. 		

Enable RTSP server RTSP server port number: 554

Do not require authorization when connecting via RTSP

Sagitech VMS Client: connecting to server

All other configuration operations, as well as watching real-time and archived videos, are performed by **Sagitech VMS Client**. At the application startup, it's necessary to specify the address of a server to connect to, user name and password. By default, the system has only one **admin** user with a blank password.

Connect to se	erver X
	SAGITECH 🖒
S <u>e</u> ssion: <u>S</u> erver: <u>U</u> ser name: <u>P</u> assword:	admin@localhost localhost admin
Settings	<u>O</u> k <u>C</u> ancel

Sagitech VMS Client also supports connection to multiple servers simultaneously. In order to enable such capacity, combine several sessions in a group by going to the edit window by pressing ...:



Sagitech VMS Client: configuration mode

After connecting to the server, it will load **Sagitech VMS Client** main window. At the first connection you'll get into the configuration mode. A detailed configuration of a server (or of a set of servers) is performed in this mode. You can perform configuration both from a computer acting as server and from a remote workplace.

Sagitech VMS Client: admin@localhost		-	0	×										
File View Configuration Guard	Windows Help													
Surveillance 🗅 Archive	💭 Earliguestan 🔲 Q · 🔲 🏠 🗇 🗇													
✓ ∰ admin@tocalhost	houther													
 > (Constructions) > (Constructions)	Carligue por video surveiros server													
	Server Server Seartine: 64/12/2023 09.47.34 Venion: 2.3.0 Hoat detertion: 4/8/12/46/30-41/9.6xcos-74/0ar4/05/37													
> 📒 Information	Addees: 192.162.144.1													
11 Stand dre profiles > 10 Scheddes © Scheddes	Encloser Gis unstant Monand Workson NT & 5.2300.8 Fanaranda ventanci 4.3.3013-32000													
	State 67Ustaf 40% Lived by program 370M Physical nametry 520M / 2627M Visital memory 672M / 1127M													
	Sectione Conform Michigan Section Research Social Section Sectioned Sectione													
	Operations Instructionation Exect confusation Canoc arrive structures													

The minimum setting is reduced to adding cameras, configuring archiving parameters and specifying users' group and rights.

Sagitech VMS Client: adding cameras

In order to add a camera to the system, you will have to go to the "Cameras" section in the Configuration mode to either add a camera manually or use the camera search wizard. In the latter case the cameras in the network will be detected automatically. While on the "Device searching" screen of the search wizard, tick the required cameras and click "Next". The cameras will be added to the configuration.

🔧 Camera search wizard	– 🗆 X	🔧 Camera search wizard	- 🗆 X
		Search mode selection	
Camera search wizard	×	Select the desired search mode	
This wizard will guide you through the process of camera search an Click 'Next' to continue.	nd basic configuration.	Search using autodiscovery protoco Use UPnP, Zeroconf and Onvir Discove protocols.	als ny to detect devices. Search is faster but needs devices to support one of these
		Scan the network Scan the specified range of IP addresses	s. The search is slower but doesn't require any advanced protocol support.
		Address range: From: 192.168.0.1 To: 19	32.168.0.254
< Back Next >	<u>C</u> ancel		< Back Next > Cancel
Camera search wizard	– 🗆 🗙	🔧 Camera search wizard	– 🗆 X
Ports configuration		Authorization parameters	
Set list of ports that will be scanned		Specify a list of authorization pairs (user	name and password). Click 'Next' to start the search.
Ports devided by a comma (ex.; "80, 81, 82, 83");		Use F2 to edit and Del to remove:	
80, 554		Usemame	Password
		admin admin	12345
		admin	admin
		admin	123456
		admin	12345678
		admin	admin 123
		View default passwords	
< Back Next >	Cancel		< Back Next > Cancel



Sagitech VMS Client: admin@localhost																- 0	×
Ele Yiew Configuration Guard Windows Help																	
Surveillance 🗅 Brchine 🚺 Q · 🔲 🏠 🗇 🖒																	
✓ # admin@localhost	Central																
Cameras ATDX	Configure IP cameras, web-cameras and video mounters. You cam use Search Witard to automatically detect devices.																
Proces	Ct 4	dd 🖉 Edit 🛱 Delete	Q Search wiza	rd Filten		∇ ·											
P China P FR				Reserve													
PR LPR			Server_1	None	None			78.25.91.192		(Genetic drivers) Universal ONVIF	None		None				
> 🛃 Actions			Server_1	None	None			217 78 182 53		Avia Q1604	None		None				
> 🚨 Users																	
✓ get Server_1		China	Server_1	None	None			91 228 67 208	58899	Xiong-mai Generic	None		None				
> 🦲 Disks			Server_1	None	None			D:\Demo\FR-demo.avi		(Genetic drivers) Video File	Постоянная запись		None				
> Constraint Constraint in profiles Constraint of the second se	5	UR	Server_1	Nore	Hos			D\Demo\brokeno mot	80	(Sereix down) Vdeo Fie	300.0	, a	None	Ν.	fin -	Yes	No

After adding cameras to the system, you need to configure additional settings (streams settings, recording mode, choose detectors, etc.). Depending on what you need, you can perform individual setting of each camera or simultaneously edit several selected cameras. Select the camera (or cameras) in the list and click "Edit".





To ensure operation of a camera in the system, please do the following steps:

- 1) Set the camera's name on the "General" tab.
- 2) Set the camera's address, user name and password to access it on the "Connection" tab.
- 3) Select the camera model on the "Connection" tab. You can connect the camera with the help of a specific driver (according to the manufacturer's name and camera model), or using one of the generic drivers (ONVIF, PSIA, RTSP/HTTP). You can also determine the model automatically using the "Detect" button.

Camera model selection			\times
Select camera vendo determine the model	r and autom	model. Press "Detect" if you want the program to atically.	
Vendor (Generic drivers) 360+1 3S 4XEM 7Link ABS Absolutron Abus Acti ActiveCam Acumen AcutVista A-Gear		Model Microphone Screen Capture Universal HTTP/RTSP Universal ONVIF Universal PSIA Universal Web camera	
AirLink 101	~		
Detect		<u>O</u> k <u>C</u> ancel	

- 4) Set the parameters of the streams obtained from cameras select a desired protocol, resolution, etc. on the "Streams" tab.
- 5) Select a recording profile on the "Recording" tab. Recording profiles define general settings of recording to the archive for several cameras.

- 6) Set additional parameters on the Modules and Advanced tabs, if necessary.
- 7) Test camera connection on the "Test" tab.

Sagitech VMS Client: recording setting

Select the disks you want to use for recording, and determine their parameters in the "Disks" section in the Configuration mode:



For each disk you may allocate space for storage of archived data and add a description. All the selected disks are combined into a single archive, where writing is executed into all disks simultaneously.



Sagitech VMS Client: video replay

Switch to the "Surveillance" mode to watch videos from cameras in real-time mode. You can replay several cameras on the screen simultaneously using layouts. The most commonly used layouts are created in advance and are available both on the toolbar and in the "Objects" panel in the correspondent sub-section.

In order to add a video source into the required cell of a layout, click the right mouse button and choose "Select camera" item. A dialog box appears with a selectable list of cameras. You can also "drag and drop" the desired camera from the "Objects" panel.

Cell control commands are available from the context menu, from the toolbar, from the main menu and by using keyboard shortcuts.

Select camera Clear the cell Cell properties Archive view Search camera archive Freeze -Save current frame as.. Copy current frame to clipboard Export video Edit camera properties



The changes done to a layout and its cells are automatically saved to server if you are connected to one server (if you are connected to multiple servers the layouts are saved locally).

The cameras set to receive two streams will have an automatic switch of a stream, depending on the size of a cell to which a video stream is output. You can modify the default settings for all cameras at once using the application settings window or use "Cell properties" box to specify each cell's individual properties instead.

Cell properties		>
General		
Camera:		
Camera 01		
Play audio		
Use default view settings		
Show detected motion		
Show analytics		
Limit the maximum number of frames per second		
60		*
Frame proportions:		
Automatic		\sim
Display substream when cell size is less than, px.:		
640		* *
	Ok	Cancel
	OK	Canoon

Sagitech VMS Client: archive review

You can replay the saved records in two ways. First, you can switch a cell to the archive replay mode for a certain amount of time from the "Surveillance" mode. By switching several

cells to the before mentioned mode, you can initiate non-synchronized review of archive of several cameras.



Second, you can review the synchronized archive of several cameras by choosing the "Archive" mode. Select a desired layout using the toolbar button "Select layout".

For a faster way to go to the desired layout use the "View layout archive" from the Surveillance mode.



On the left part of the window there is a list of records grouped by a particular camera with a depiction of timeframes of continuous recordings. In the diagram at the bottom of the window there is a graphical representation of all the records made on a particular day.

Sagitech VMS Client: archive search

In order to facilitate the navigation and search of items in an archive, **Sagitech VMS** has a convenient search mode.

There are two search modes: objects search and events search.

Objects search is an intelligent search for objects detected by motion detector or analytics modules (people detector, face detector, etc.). It is possible to select objects according to their location, size and similarity to a given image (visual traits search). Please note that in order to find moving objects it is necessary to enable objects indexing in the settings of server camera detector (or multiple cameras detector). In order to find objects detected by analytics module, it is necessary to turn this module on in camera settings.

The possibility of using smart search can greatly simplify the navigation in the archive, significantly reducing time required to search for an event or an object.

The second search mode is the events search. All the script-generated emergency events and notifications are written in the archive and are available for further search.

Sagitech VMS Client	: admin@localhost											12	ø	×
File View Ala	rm journal Guard \	Windows Helj												
Surveillance	Archive {	Configuration	9		α.	1	H 🍝							
Alan		A count street	- Const										Access of the	
100.1205/200.10CG	n journa	Accept atarn	s Export										Accept an al	arms
D'H', GOOKTZO, D' CO	ALC: NO	Type	Date											
A STAR														
- Zatalone	10													
C C C C C C C C C C C C C C C C C C C	Station.													
04/12/2023 10:39:54.923		4 .												
Cow12/2023 10 24 08 10.38	30 40 04/12/2023 10 54:06	5 .												
	▶ ▶ ± 1.00x													
Real time	Archive search													
04 12 2023	9.39.16	10												
04.12.2023	9.49.16	11 💌												
Salast time ration														
Cameras														
(all cameras)														
(all events)														
Types														
(all types)														
Description														
			04/12/20	10:39:07	Face recognized		FR	Server_1						
3	Search /													

Web interface

In order to watch a video or an archive in real-time mode, you can use the web interface of **Sagitech VMS** server. It's necessary to use the **Server Configuration Wizard** in order to enable this function. The server will be then available on a port number, specified in the wizard (port 11012 by default).



This interface does not require neither installation of ActiveX components, nor installation of Flash, and is compatible with all modern browsers.