

[sagitech.pro](http://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.

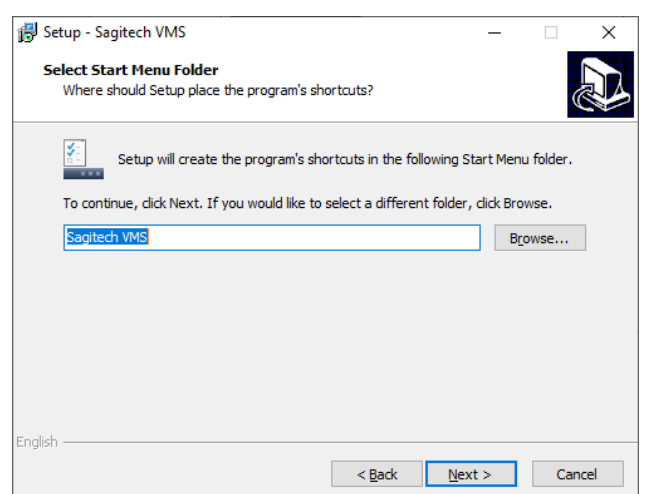
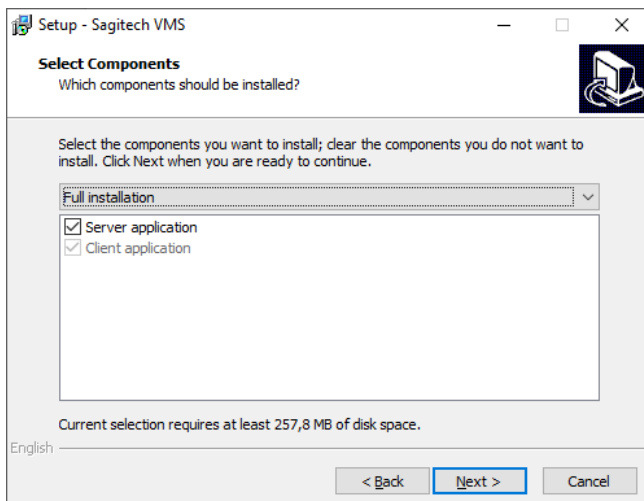
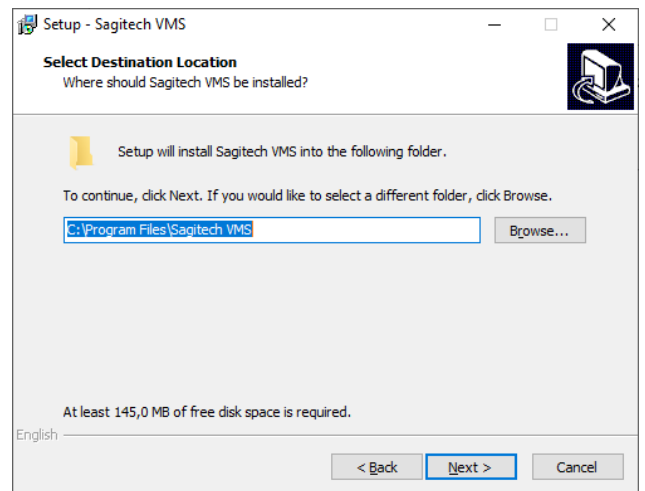
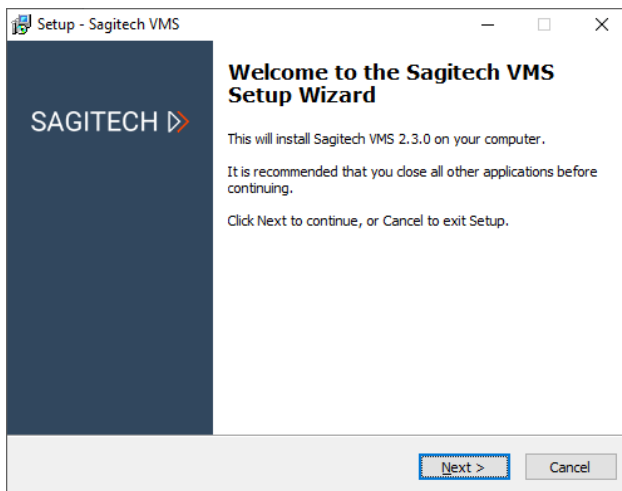
It is also recommended to disable the processor's energy-saving mode in the BIOS and to set Windows energy-saving profile to its maximum performance.

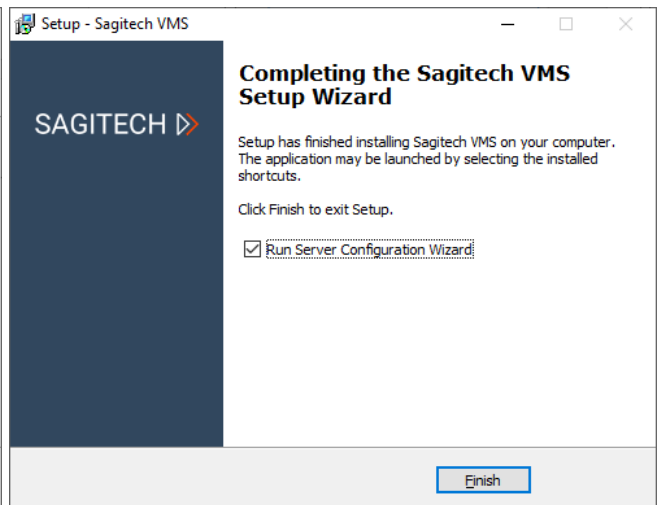
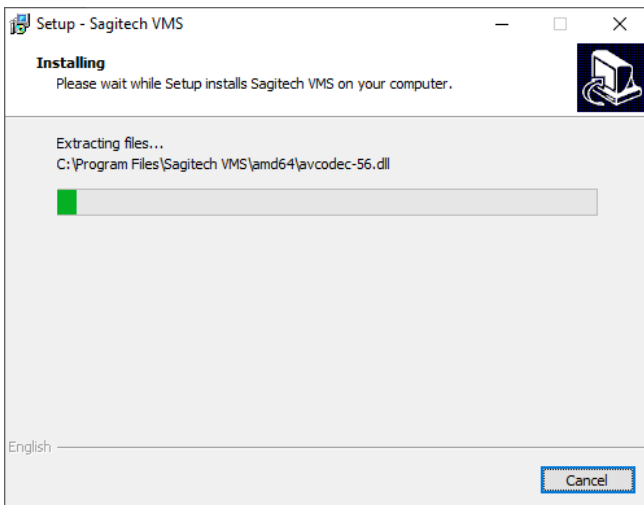
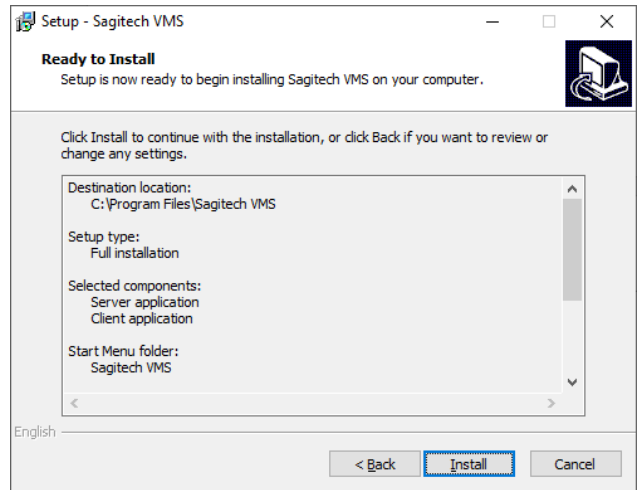
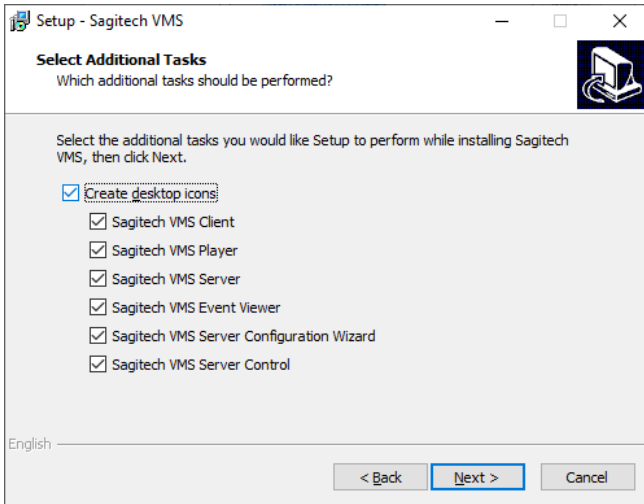
## Software components

**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.





## Activation and initial server configuration

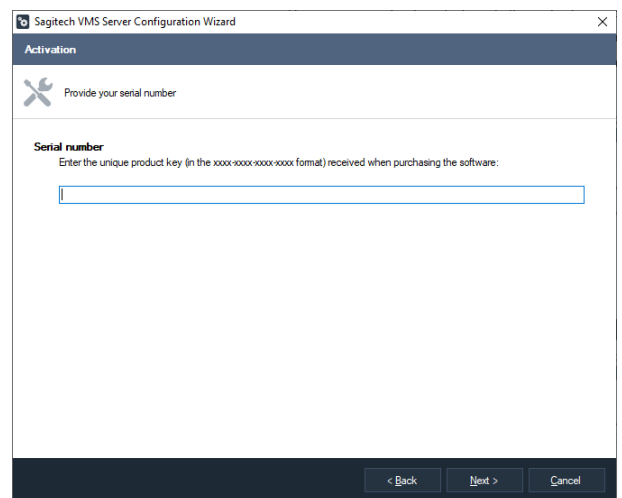
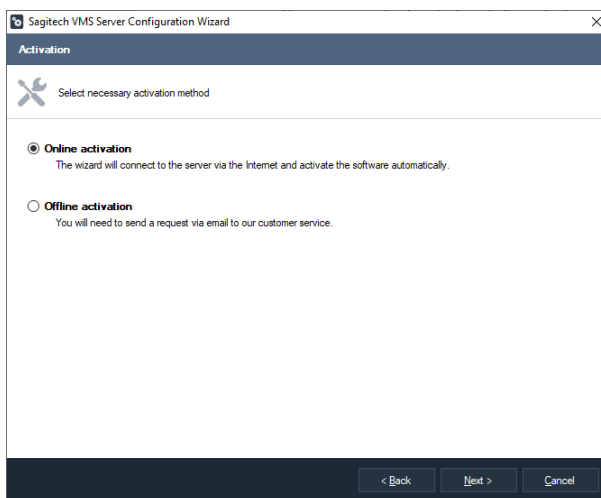
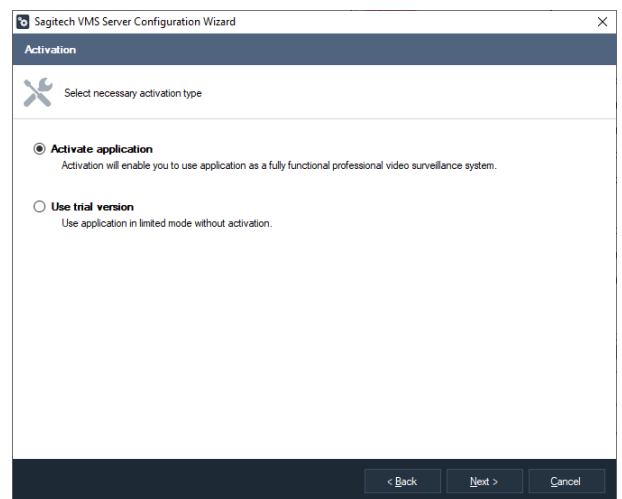
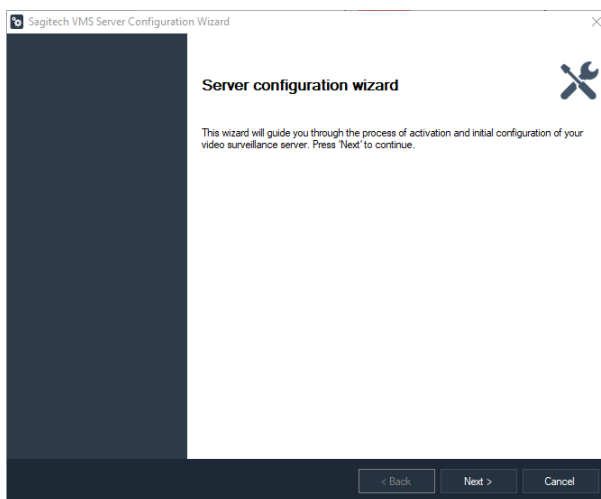
After installing **Sagitech VMS** server software, the server setup wizard will start. It will perform the following tasks:

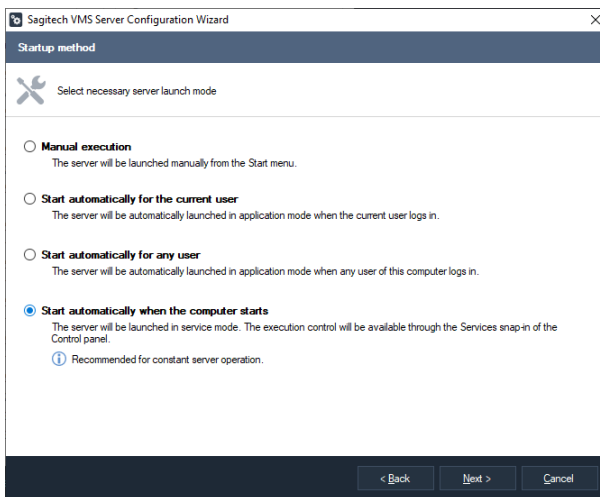
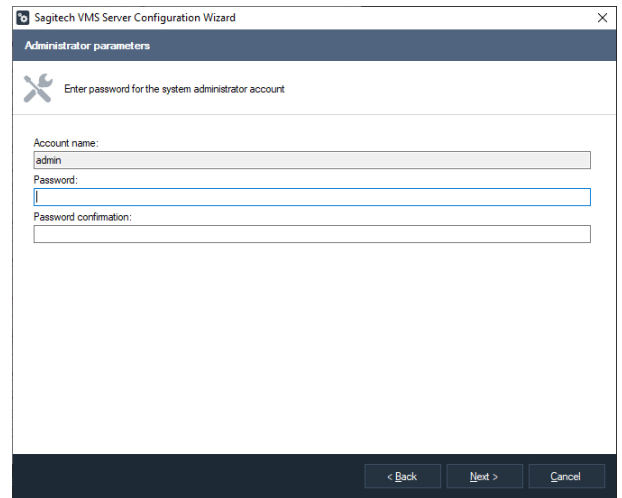
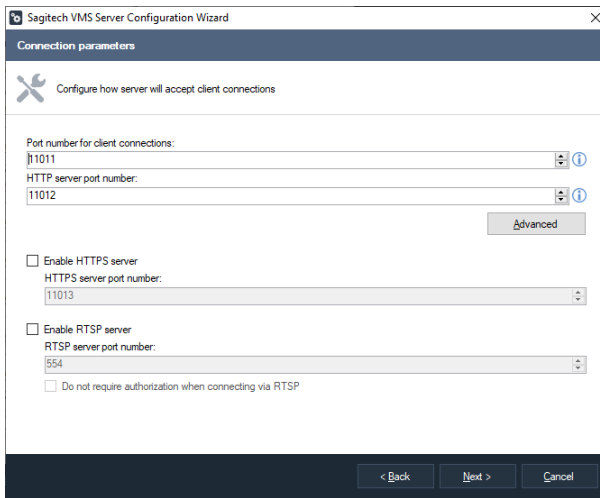
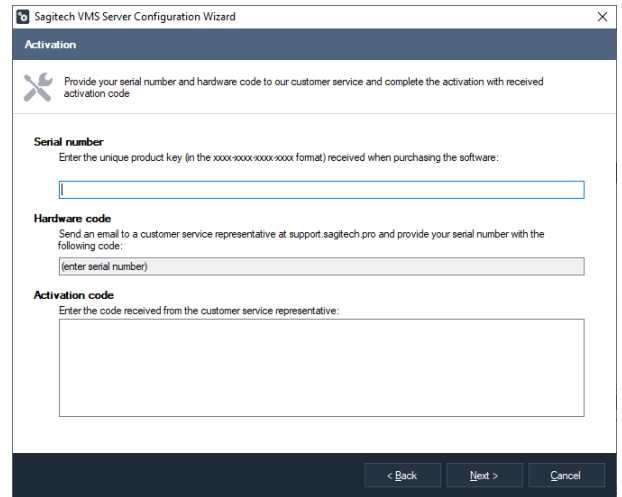
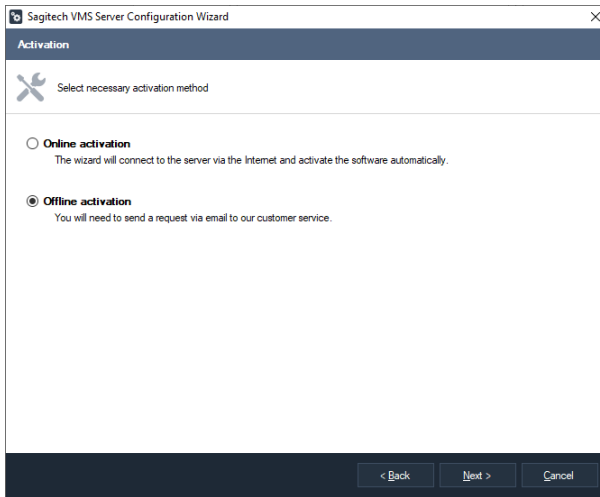
- Software suite activation

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.

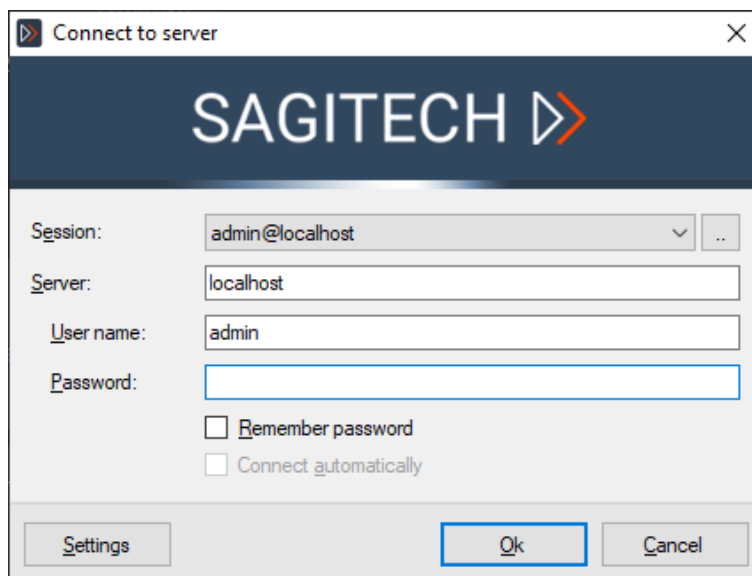





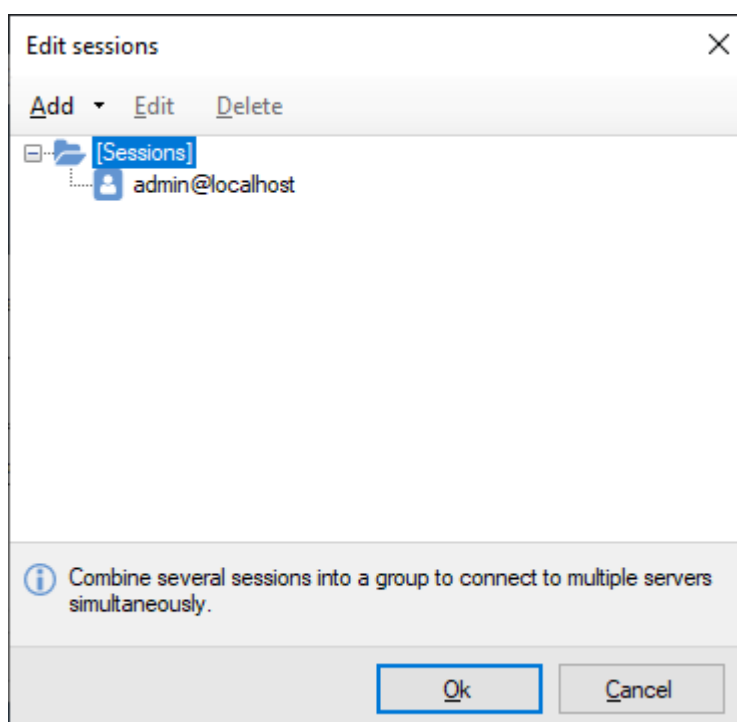


## Sagitech VMS Client: connecting to server

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.

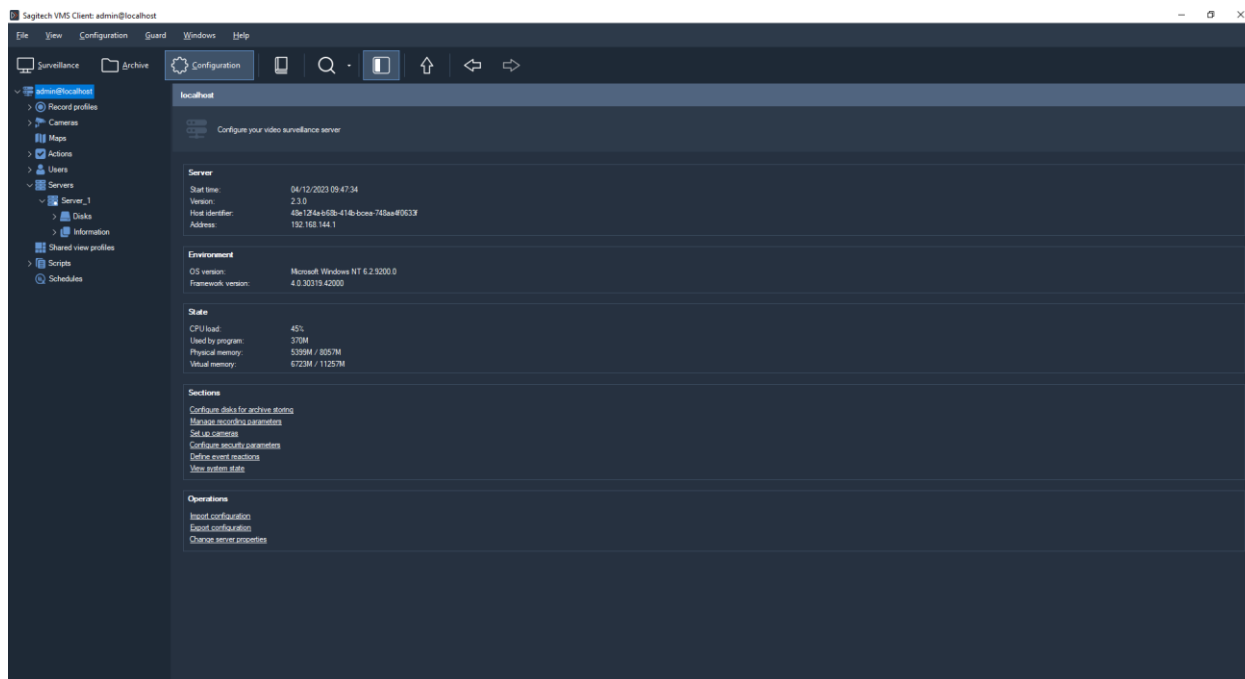


**Sagitech VMS Client** also supports connection to multiple servers simultaneously. In order to enable such capacity, combine several sessions in a group by going to the edit window by pressing :



## Sagitech VMS Client: configuration mode

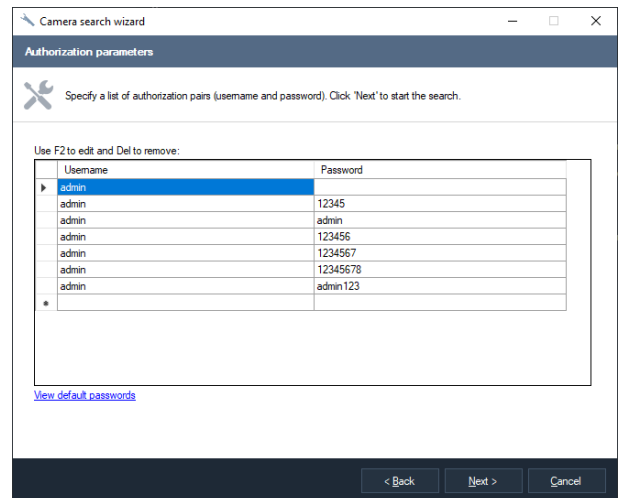
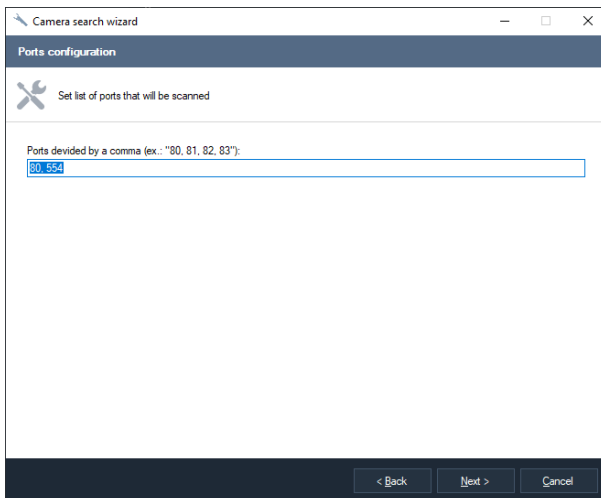
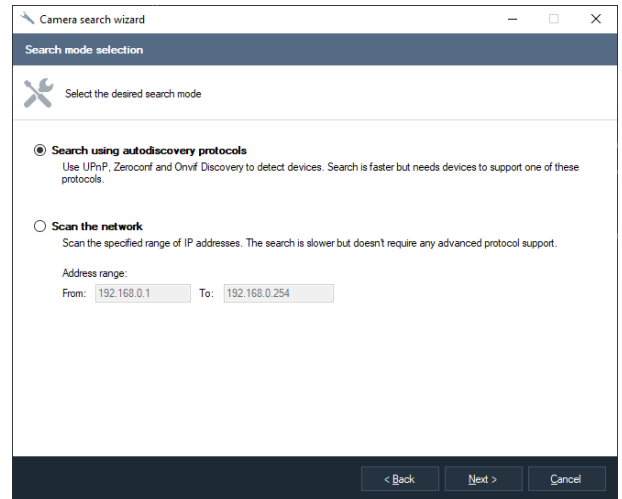
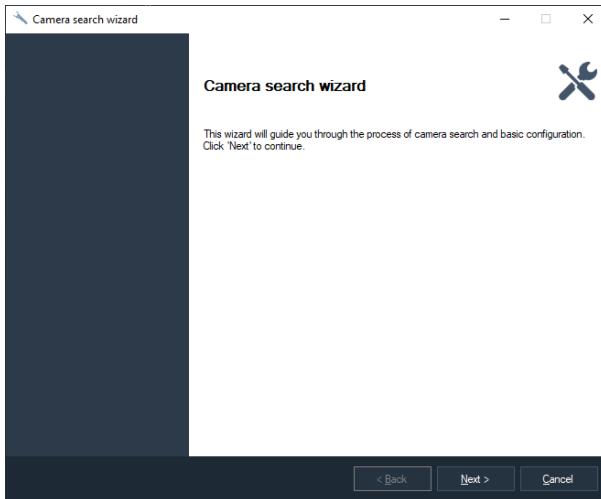
After connecting to the server, it will load **Sagitech VMS Client** main window. At the first connection you'll get into the configuration mode. A detailed configuration of a server (or of a set of servers) is performed in this mode. You can perform configuration both from a computer acting as server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

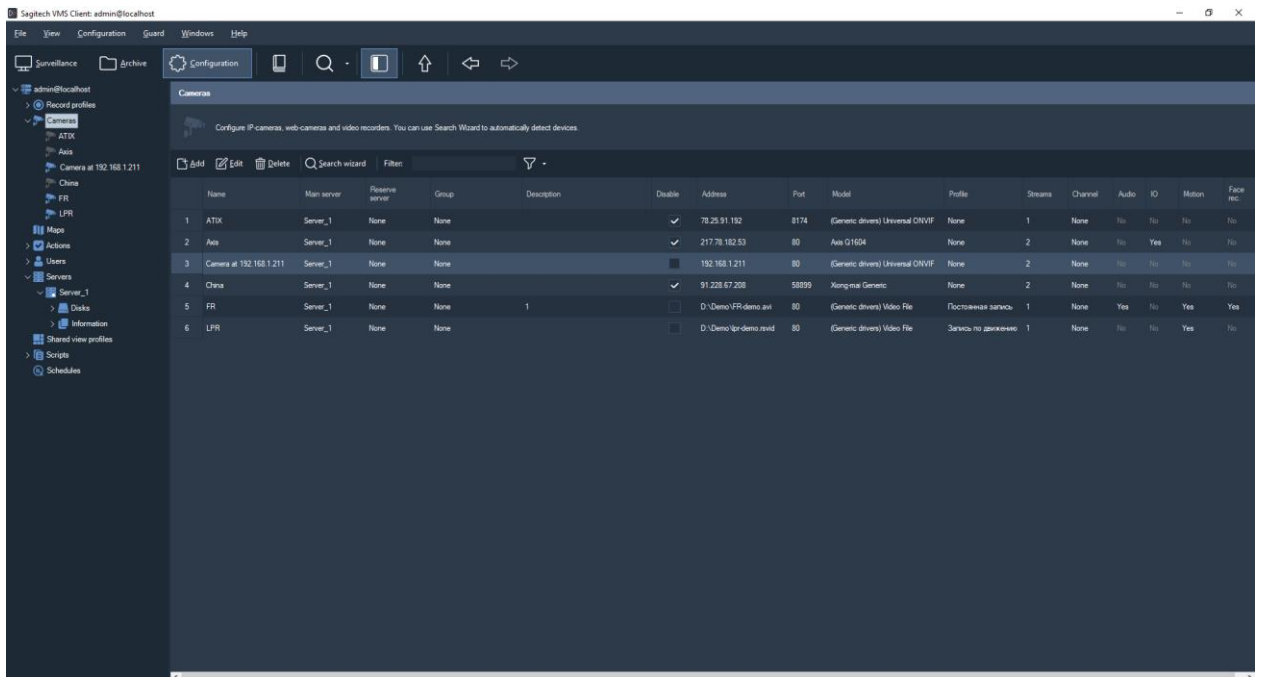
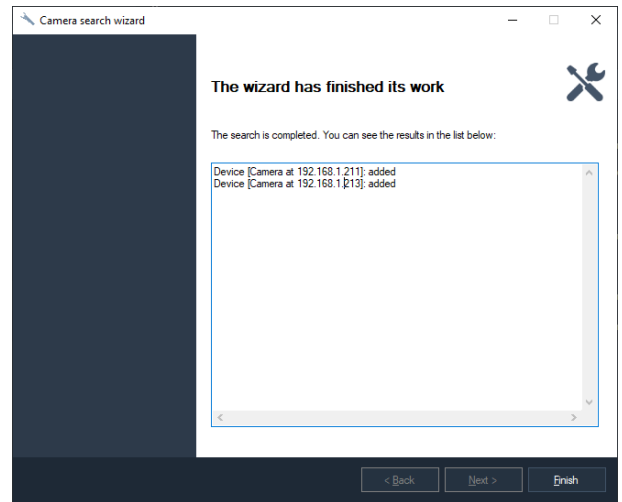
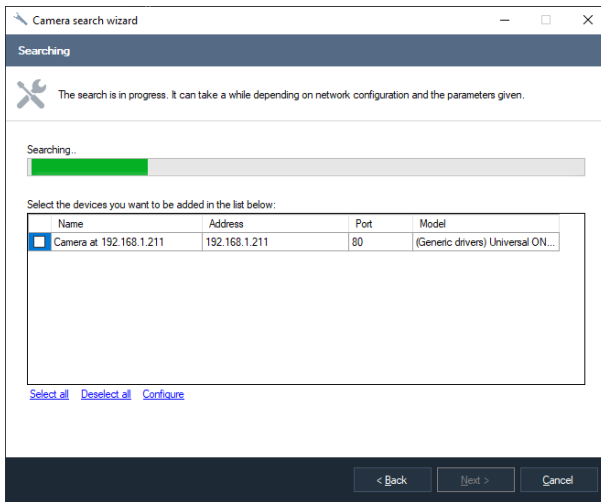


The minimum setting is reduced to adding cameras, configuring archiving parameters and specifying users' group and rights.

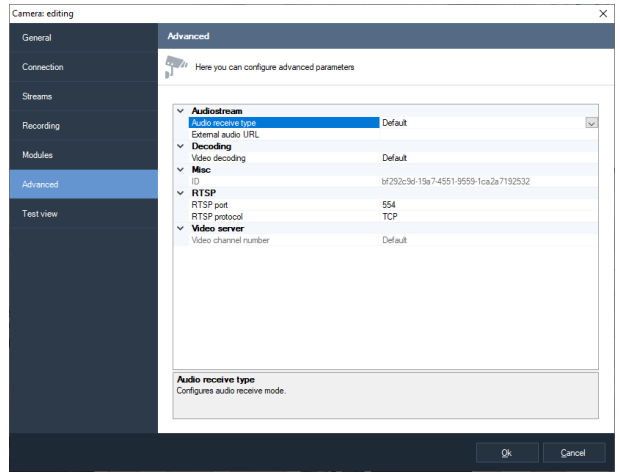
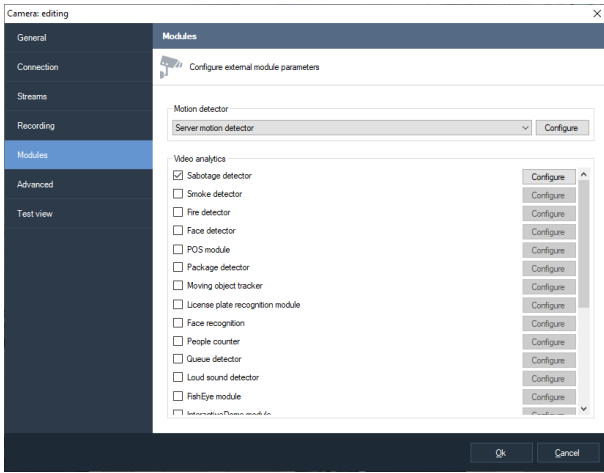
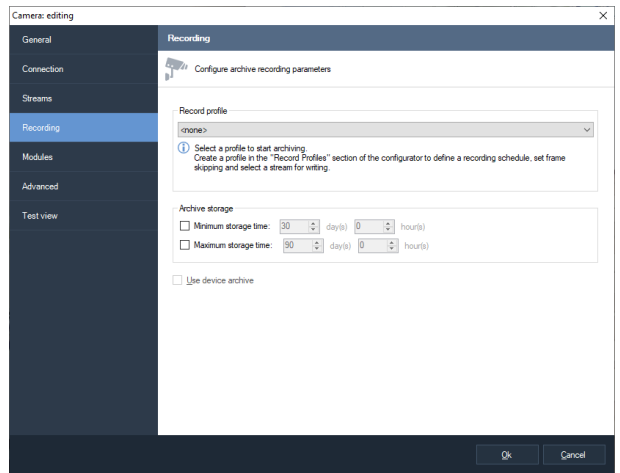
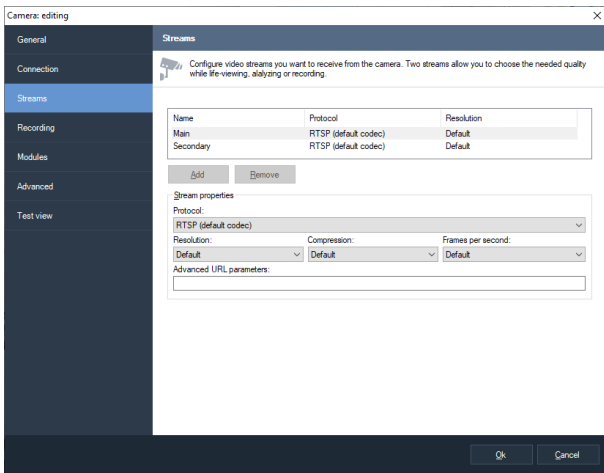
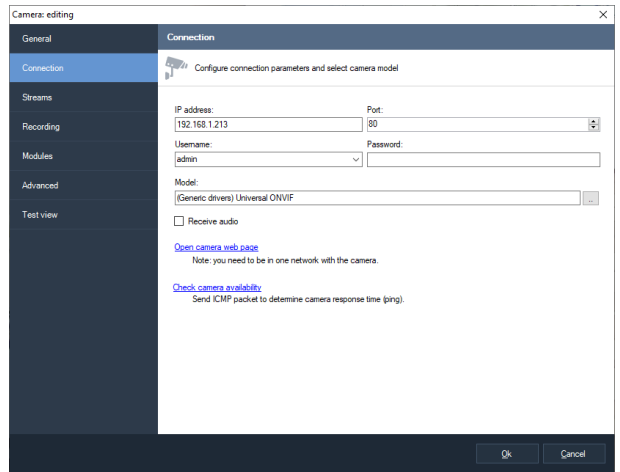
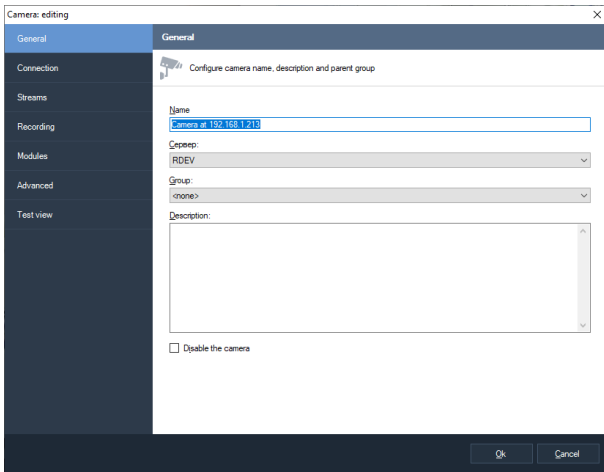
## Sagitech VMS Client: adding cameras

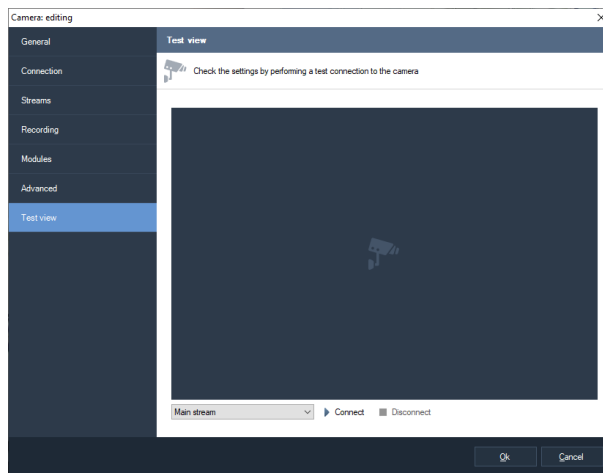
In order to add a camera to the system, you will have to go to the “Cameras” section in the Configuration mode to either add a camera manually or use the camera search wizard. In the latter case the cameras in the network will be detected automatically. While on the “Device searching” screen of the search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





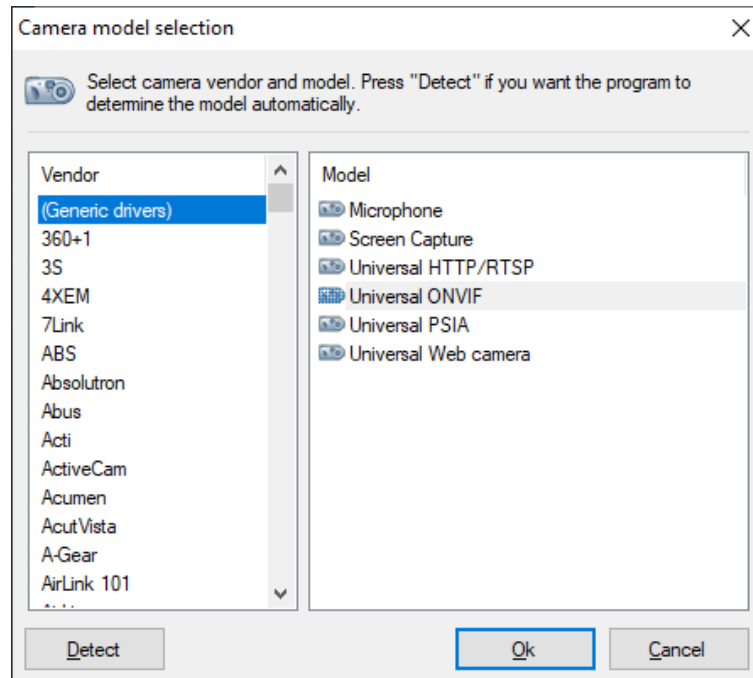
After adding cameras to the system, you need to configure additional settings (streams settings, recording mode, choose detectors, etc.). Depending on what you need, you can perform individual setting of each camera or simultaneously edit several selected cameras. Select the camera (or cameras) in the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

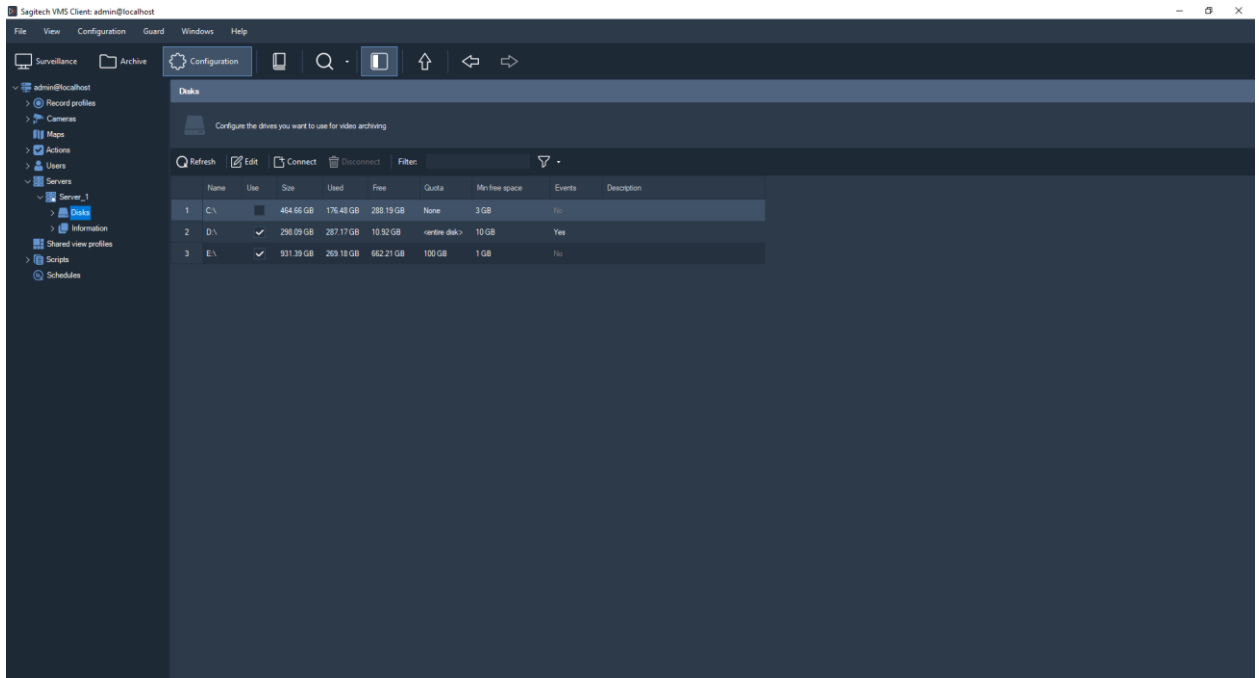


- 4) Set the parameters of the streams obtained from cameras – select a desired protocol, resolution, etc. on the "Streams" tab.
- 5) Select a recording profile on the "Recording" tab. Recording profiles define general settings of recording to the archive for several cameras.

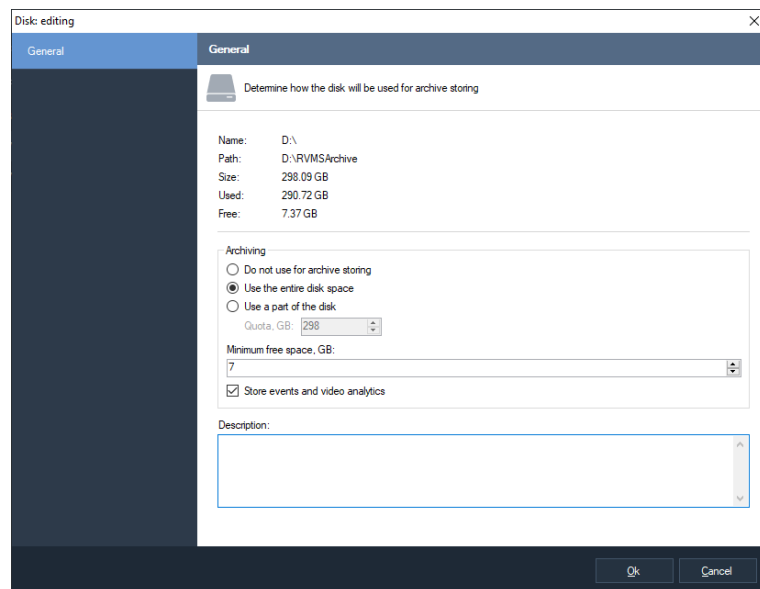
- 6) Set additional parameters on the Modules and Advanced tabs, if necessary.
- 7) Test camera connection on the “Test” tab.

## 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.



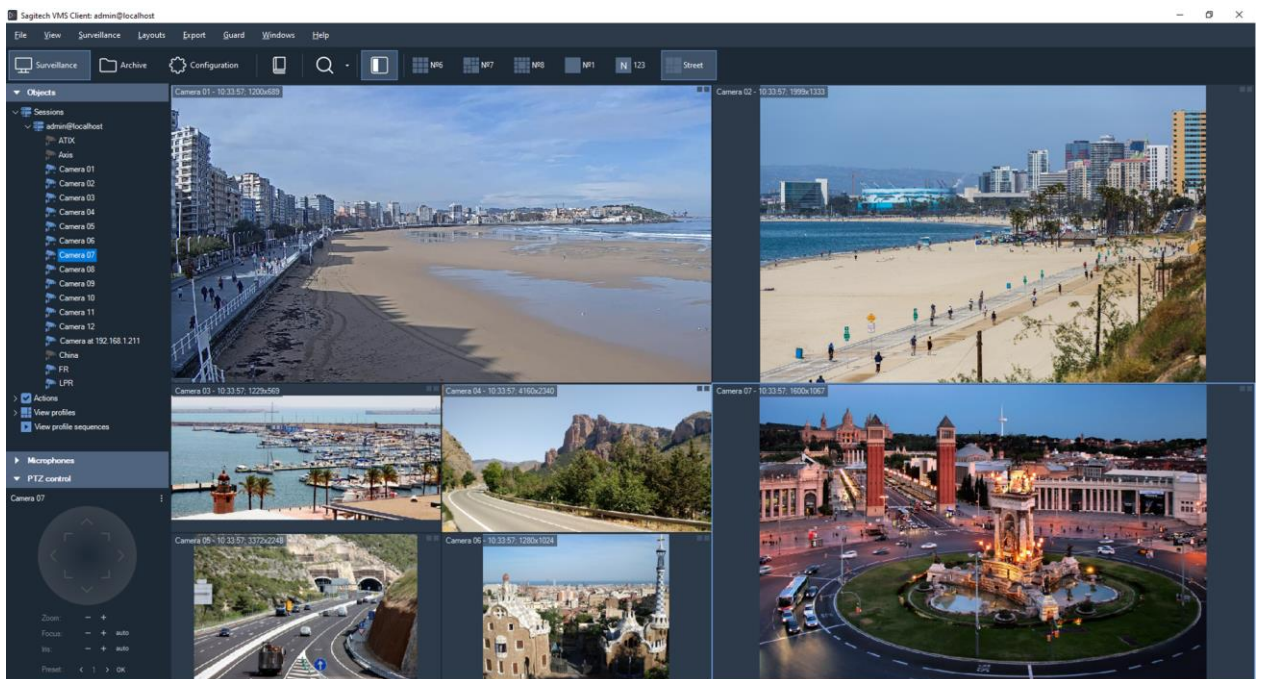
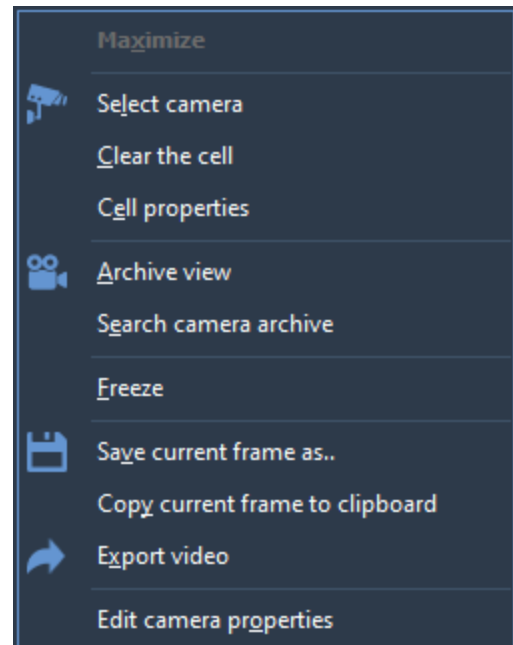


## Sagitech VMS Client: video replay

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.

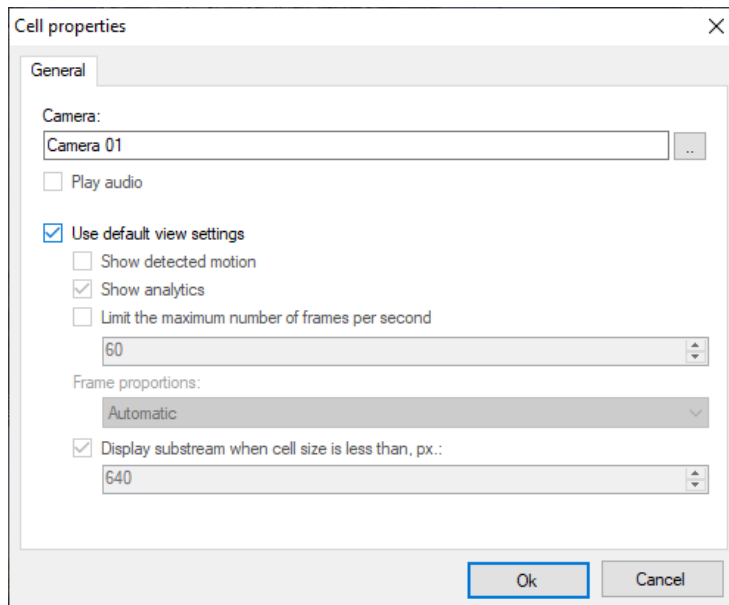
In order to add a video source into the required cell of a layout, click the right mouse button and choose “Select camera” item. A dialog box appears with a selectable list of cameras. You can also “drag and drop” the desired camera from the “Objects” panel.

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



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).

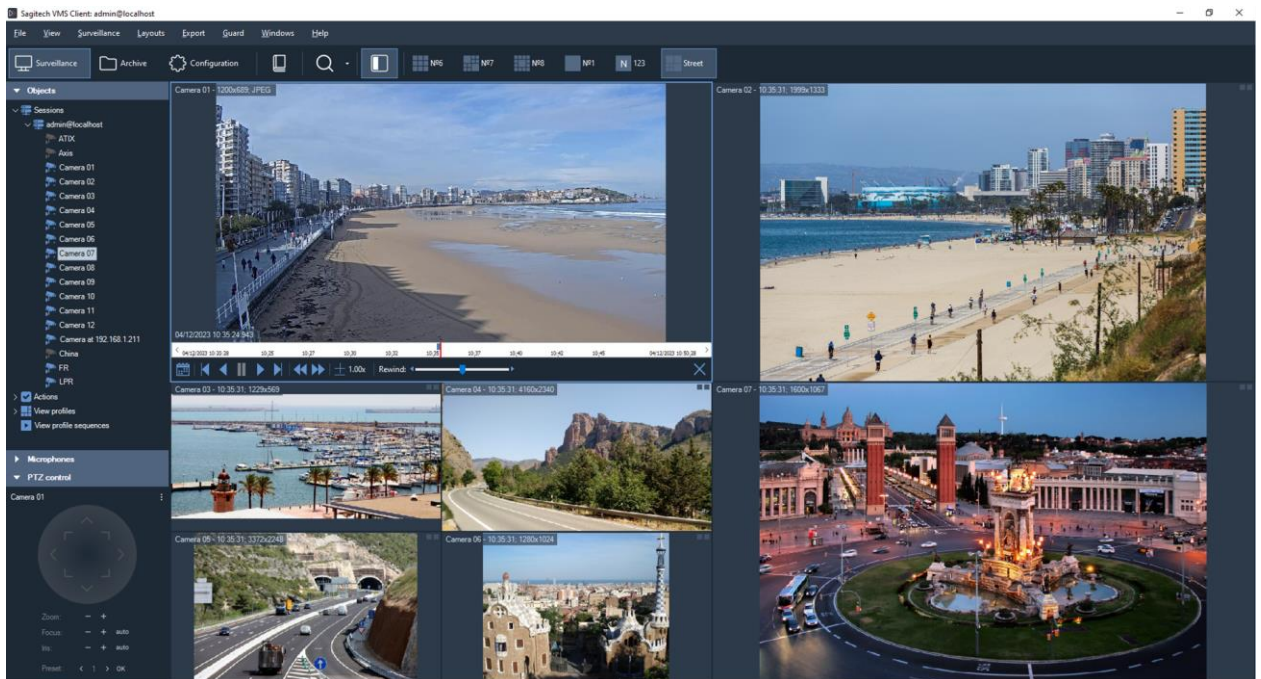
The cameras set to receive two streams will have an automatic switch of a stream, depending on the size of a cell to which a video stream is output. You can modify the default settings for all cameras at once using the application settings window or use “Cell properties” box to specify each cell’s individual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



### **Sagitech VMS Client: archive review**

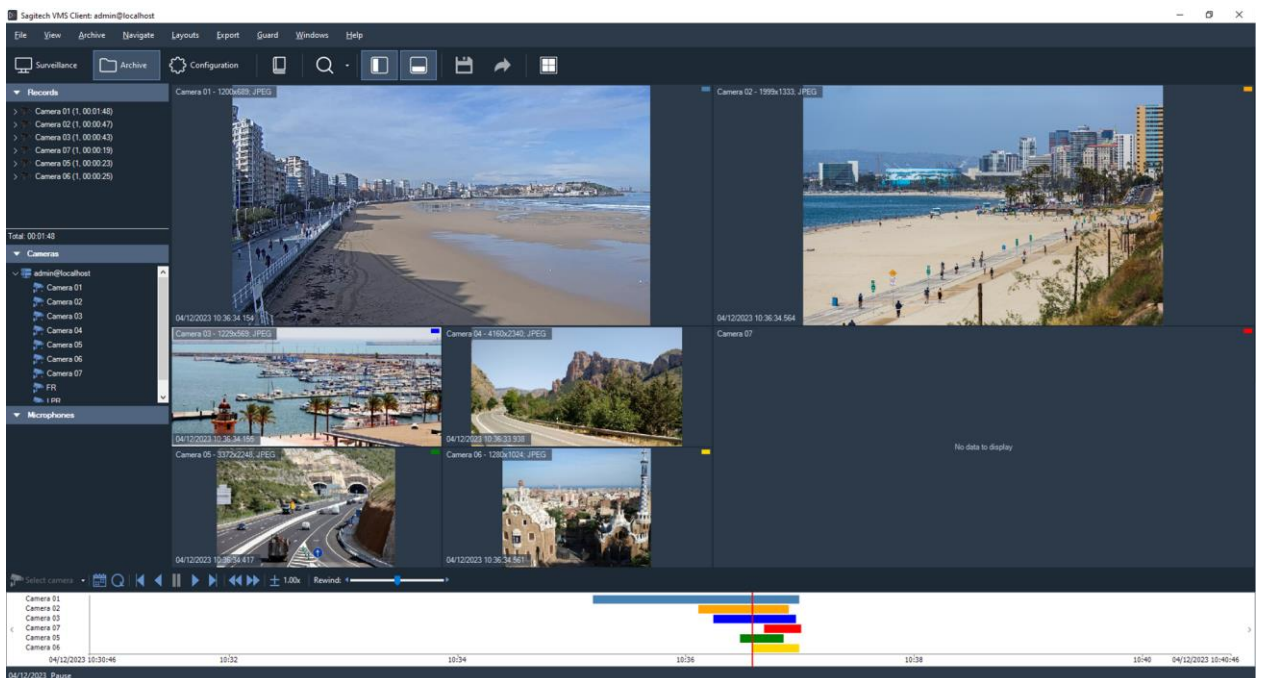
You can replay the saved records in two ways. First, you can switch a cell to the archive replay mode for a certain amount of time from the “Surveillance” mode. By switching several

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

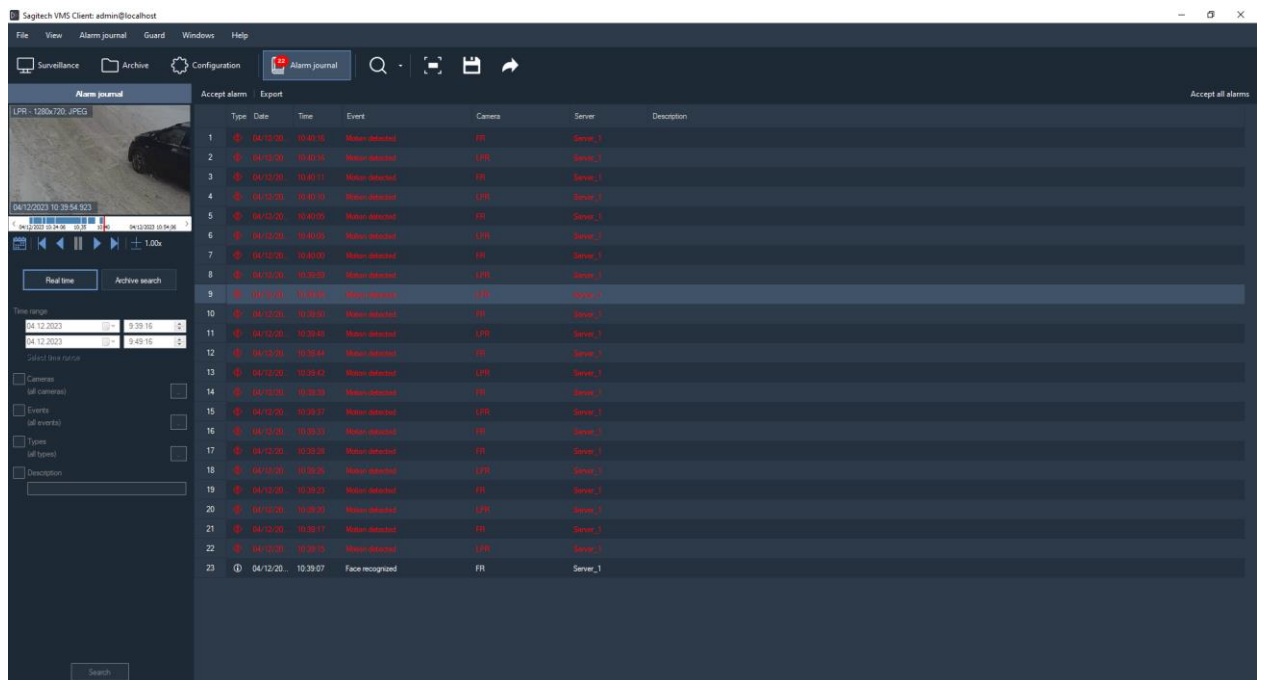
In order to facilitate the navigation and search of items in an archive, **Sagitech VMS** has a convenient search mode.

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.

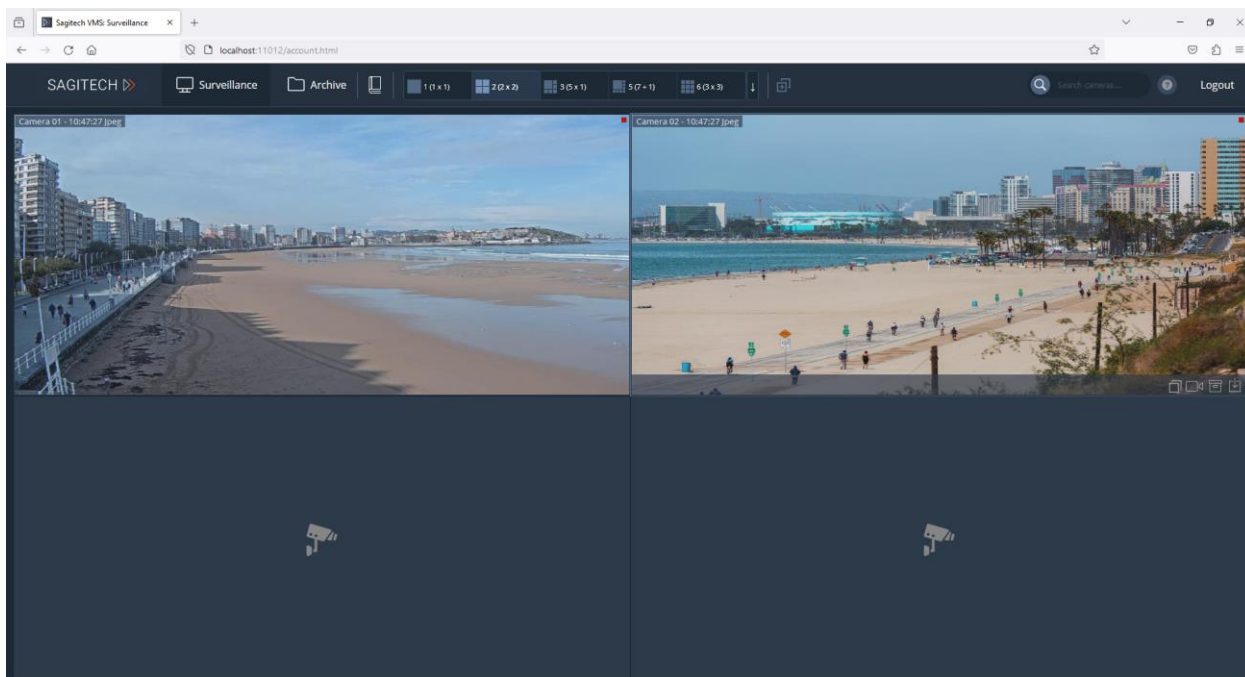
The possibility of using smart search can greatly simplify the navigation in the archive, significantly reducing time required to search for an event or an object.

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.



## 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.