User's manual




# N CONTROL 6000

NOVUS®

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# 1. FOREWORD INFORMATION

## 1.1. Main characteristics

- Software used for connections to 6000 series NOVUS NVRs & NHDRs.
- Multiscreen environment;
- Group device management;
- Advanced user management;
- Site maps features;
- Local record and playback;
- H.265 and H.264 compression;
- Support of alarm event scenerios;



## 1.2. Recommended PC specification

The PC hardware requirements are listed below:

1. **Intel i3** CPU Processor or higher. **I5-7400 3.0GHz** recommended.
2. RAM memory DDR3 4 GB. 16GB recommended.
3. OS : **Windows10 (32bit\64bit) Pro**, **Windows8 (32bit\64bit)**
4. Network adaptor **100/1000 Mb/s**
5. Graphic card **NV GT430**, **AMD HD6570** or better. **Nvidia GeForce GTX1060 6GB** recommended.
6. . Hard disk **500 GB SATA** minimum.

**NOTE!**

**The software supports one monitor with a resolution of 3840x2160 (4K). In the case of more monitors, their resolution must not be higher than 1920x1080 (FullHD).**

**With hardware decoding, only one graphics card performs the decoding.**

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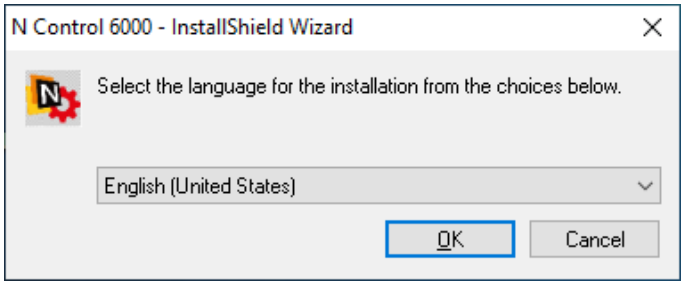
# INSTALLATION AND LAUNCHING OF THE SOFTWARE



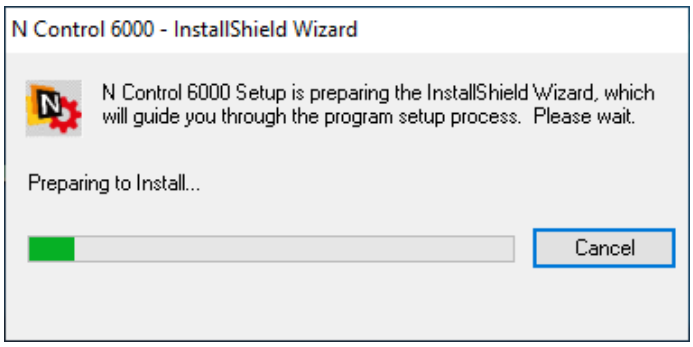
## 2. INSTALLATION AND LAUNCHING OF THE SOFTWARE

### 2.1. Installation of the software.

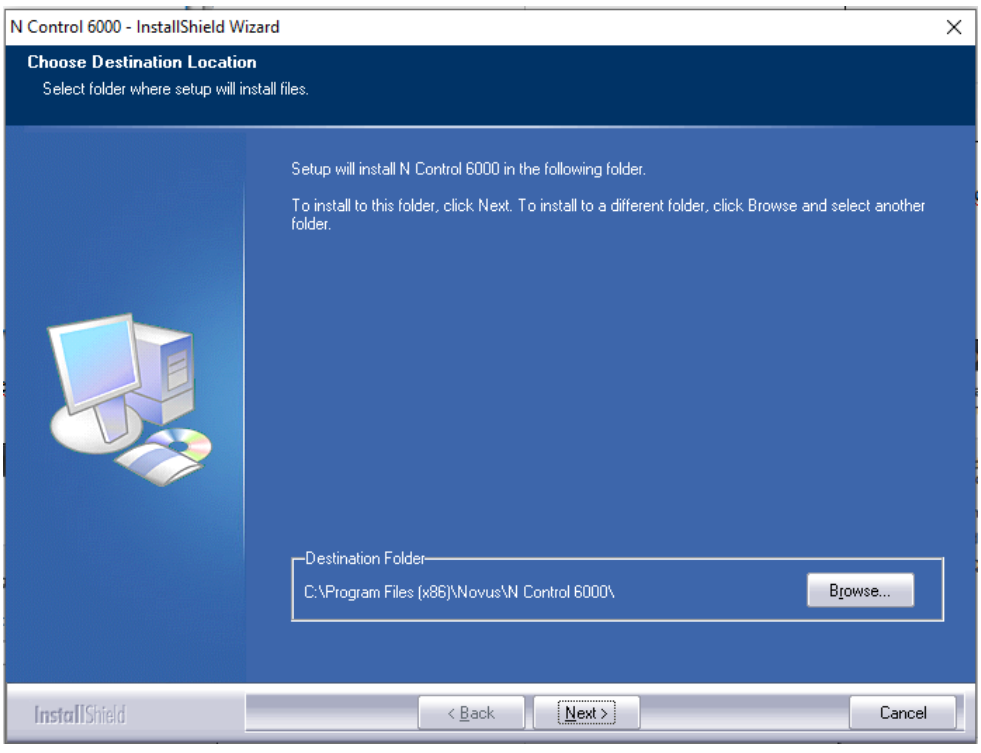
Download N Comtrol 6000 from www.novuscctv.com and save it on the local drive. Run the software to begin the installation. Setup windows is displayed (as shown below). Press **OK** to continue, or **Cancel** to exit installation.




After confirming the language selection, the installer prepares the Installation Wizard.




Select the installation path. Press the **Browse** button to select new installation folder. Press **Next** to continue. The default paht is C:\Program Files (x86)\Novus\N Control 6000.

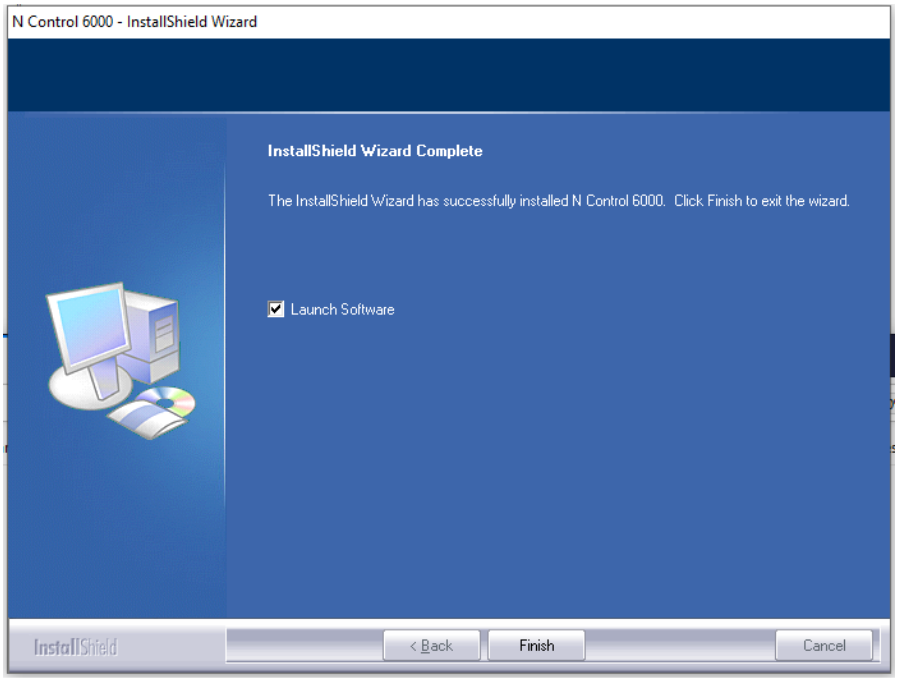



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# INSTALLATION AND LAUNCHING OF THE SOFTWARE

After selecting the installation path, the program installs automatically. When the operation is complete the window below appears.

Choose **Lanuch Software** to open program automatically after clicking **Finish** button.



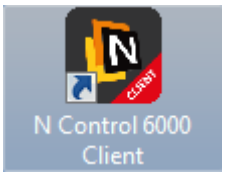



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# SOFTWARE STARTUP

## 2.2. Software startup

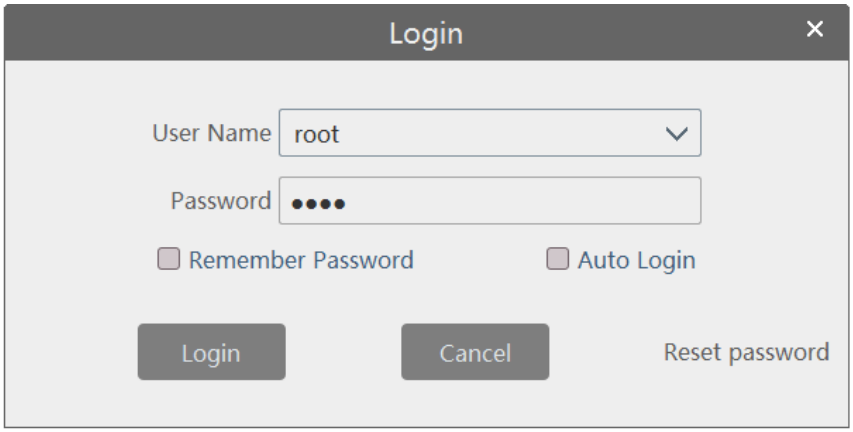
The N Control 6000 program can be started by clicking on the MonitorClient.exe file (in the directory where installed software) or with the **N Control 6000 Client** icon located on desktop.




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## 2.3. Login window

After starting the software, the login window appears.




**User name** - select user from the list. At first start here is only a super administrator account available called **root**. After adding more users, with the first time you log in, enter their name. The next time you log in, they will be on the list choice.

**Password** - a place to enter the password of the selected user. Default administrator password is **pass.**

**Remember Password -** the option saves the password in the program, the user will not need it type next time

**Auto Login -** the option saves the password in the program, the user will not need to type it next time

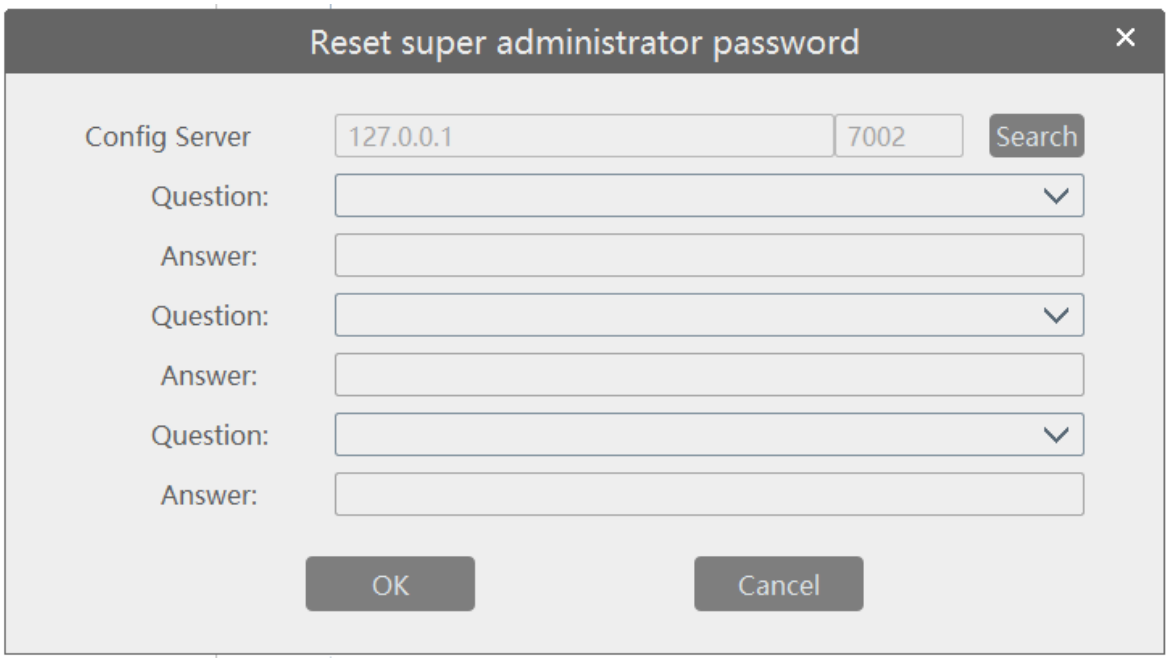
**Login –** logging into the account of the indicated user.

**Cancel** - resignation from starting the software.

**Reset password** - the option to give a new password to the super administrator account. At the first login is not available. To use this option, you must first select 3 security questions and define the answers.

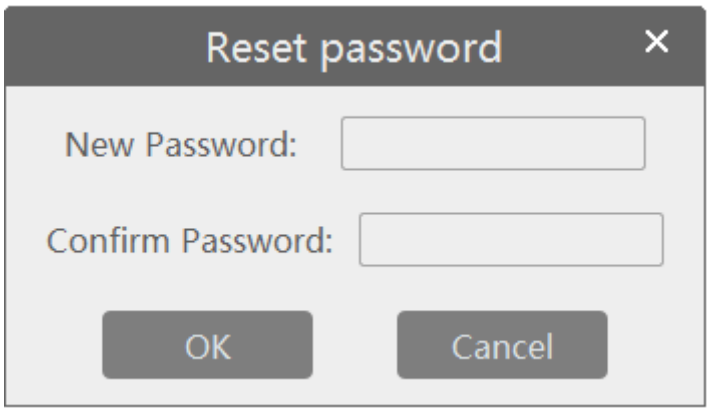
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After pressing the **Reset password** button, the following window appears.




After pressing the **Search** button, the defined security questions appear. Questions are defined in the **Accounts and permissions** section, **User Account Settings** tab, button **Edit security questions**.

After correctly filling in the answer and pressing the OK button, a window with fields for entering a new password appears.




After entering the new password twice, you can log into the software. All user account settings can be changed in the **Accounts and Permissions** section.

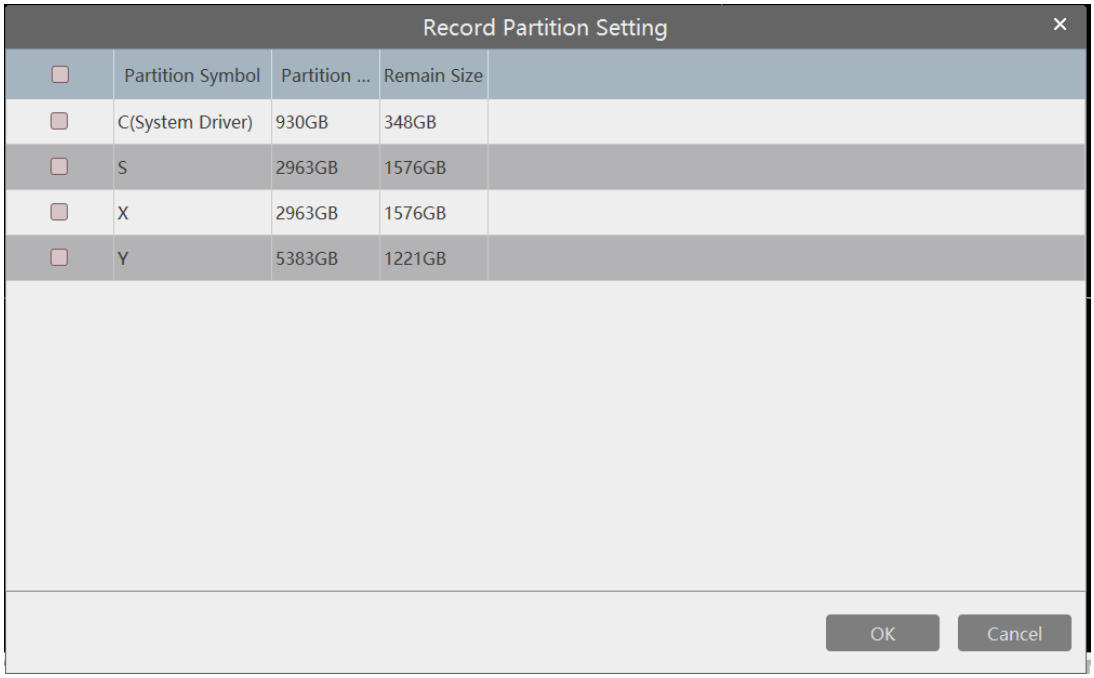
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# SOFTWARE STARTUP

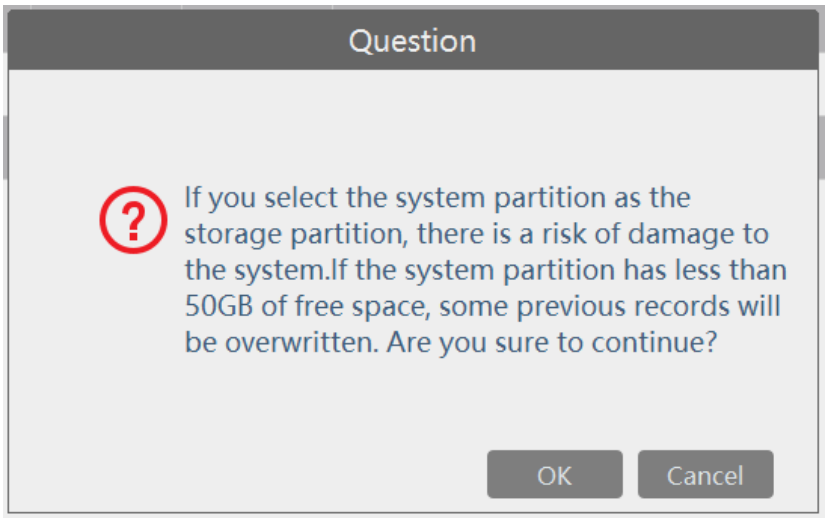
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## 2.4. Record partition settings

During the first run (or when we do not select a partition). After logging in, the application will display the window for selecting the partition for saving the recordings by the program. In the program window, select the partition on which the program is to save by marking the checkbox and pressing the **OK** button.



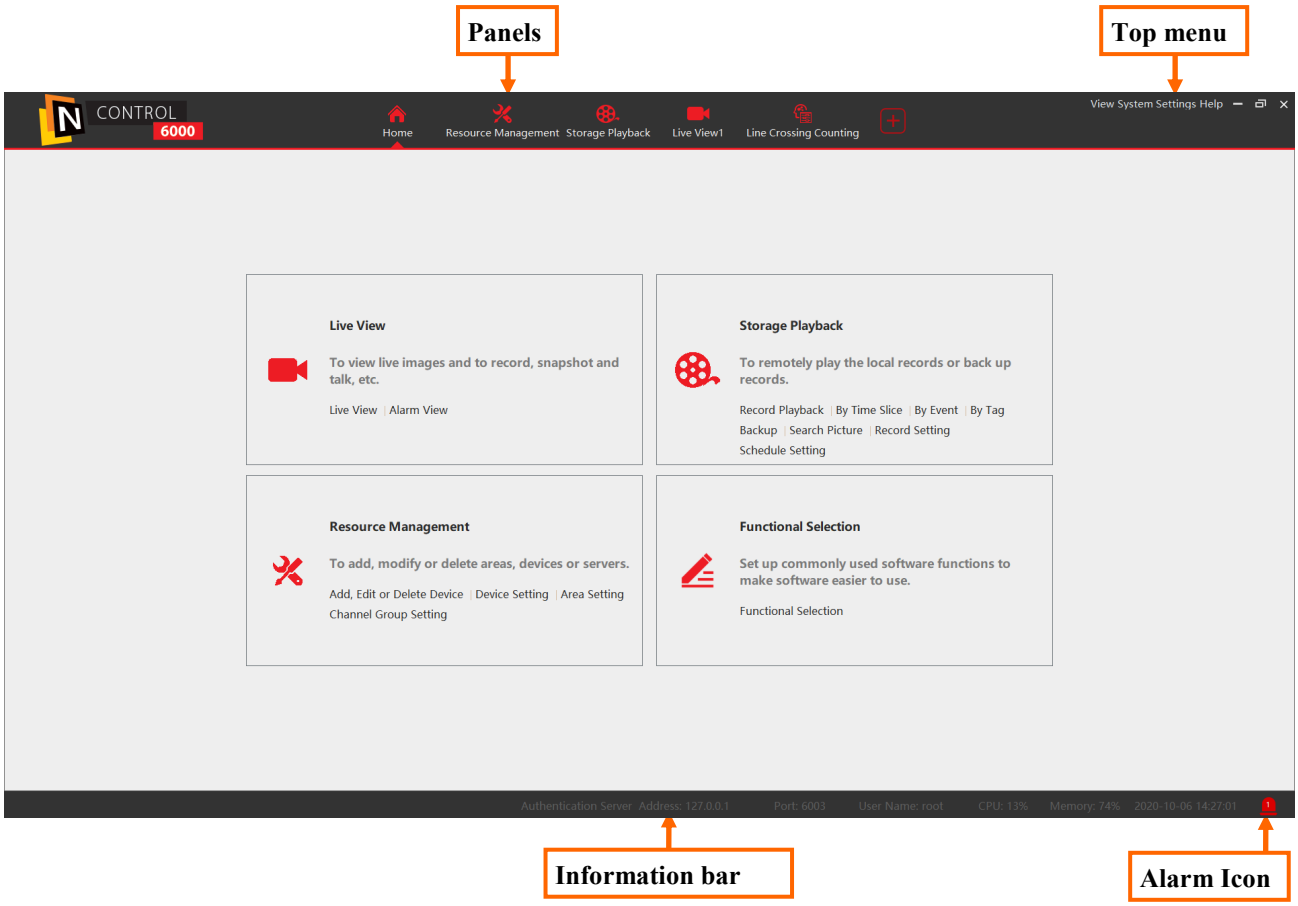

It is not recommended to select the system partition or with less than 50 Gb of free space. Saving recordings on the system partition may cause partition overflow and unstable system operation. Therefore, after selecting the system partition, a warning window will appear. Clicking the **OK** button will confirm the selection and clicking the **Cancel** button will cancel the selection.




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# APPLICATION INTERFACE

## 2.5. Application interfaace




**Panels** - displays the icons of the currently open application panels. By clicking on the panel icon it appears in the main window.

The + button opens a new live camera view window. After enter in particular settings, when a new camera preview window is opened, more are added on the bar icons. They can be closed with a cross in the corner of the icon (it appears when you hover over the icon). Individual panels can be moved as a separate application window to another monitor.

**Menu** - allows you to switch between live view (**View**), enter settings available functions (**System Settings**) or checking the software information (**Help**).

**Main window** - active panel displayed. The initial **Start** panel displays a list of panels grouped in sections.

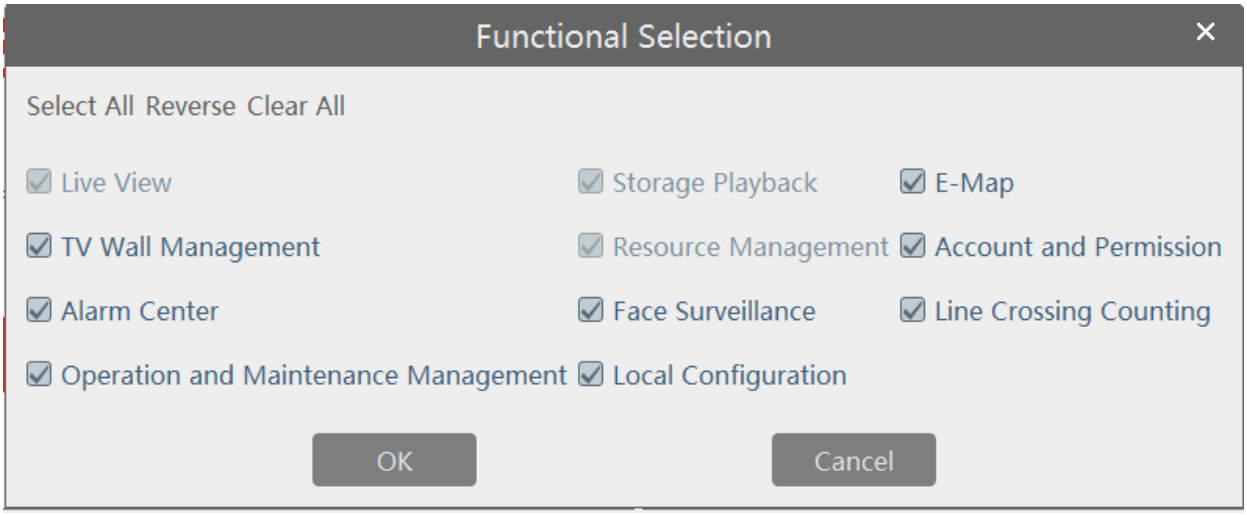
**Information bar** - displays the authentication server IP address, communication port, name logged in user, unit load level (CPU and memory), current date and time. The red color of the unit load level additionally warns against overload.

**Alarm Icon** - allows you to quickly display a list of current alarms.

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# APPLICATION INTERFACE

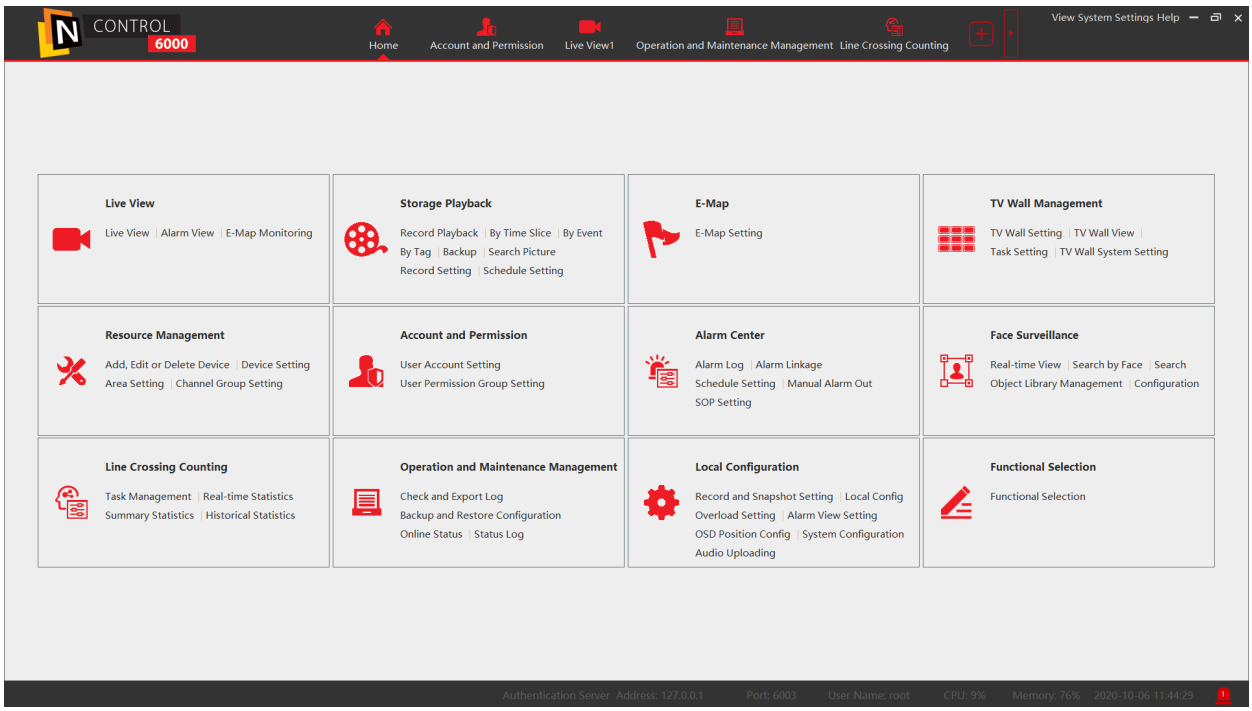
The **Start** panel shows 6 sections at the beginning. The last section **Functional Selection** allows you to enable and turn off individual sections. After clicking on this section, the following window appears:




**Live view, Storage playback, Resource management** sections are mandatory. The other sections can be turned on as an option for setting up, and turned off when they are not needed.

There are buttons at the top of the window:

- Select All - selects all possible options.
- Reverse - inverts the selected selection (except for sections that cannot be switched).
- Clear All - deselects all sections.

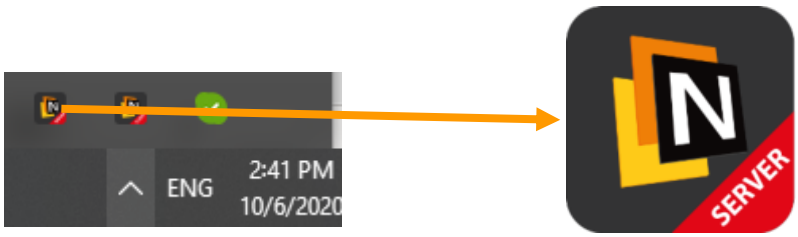



After enabling all options, we have a maximum of 12 sections with all possible functions.

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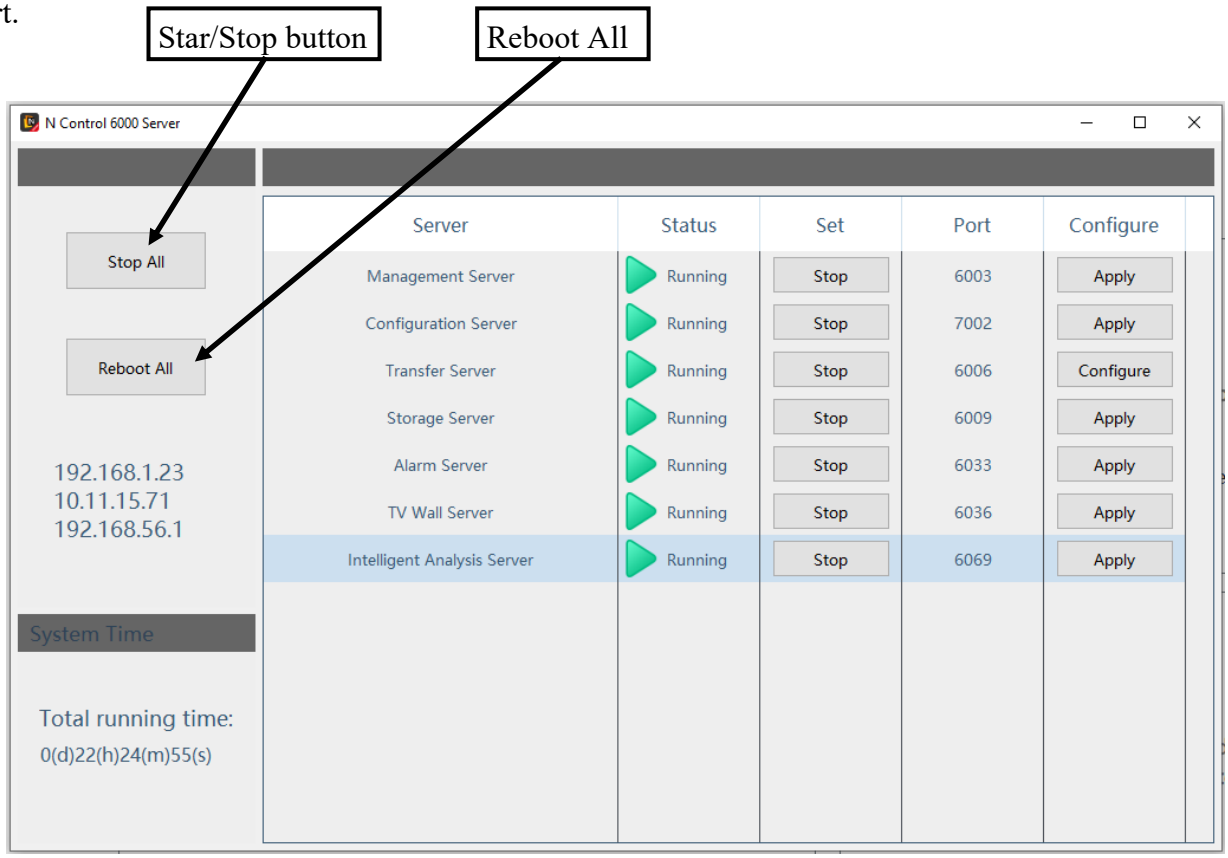
## 2.6. Server processes

When the N Control 6000 software is started, server processes are started in the background. They can be viewed using the **N control 6000 Server** icon in the right part of the taskbar.

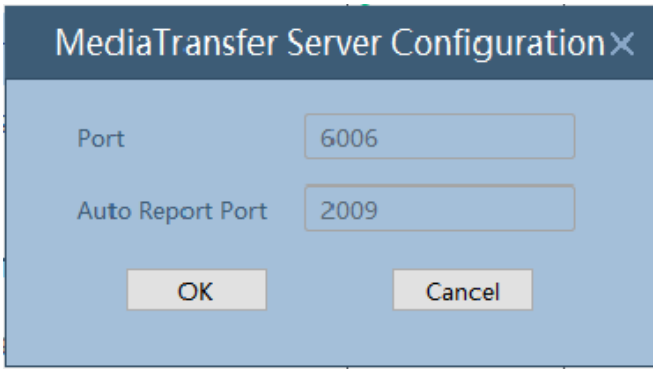



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After clicking on the icon, a window showing the status of server processors appears. Clicking the **Stop All** button stops all N Control processes . After clicking **Start All** N control processes should start.




After clicking the **Configure** button, a window for specifying the port for the service will open.




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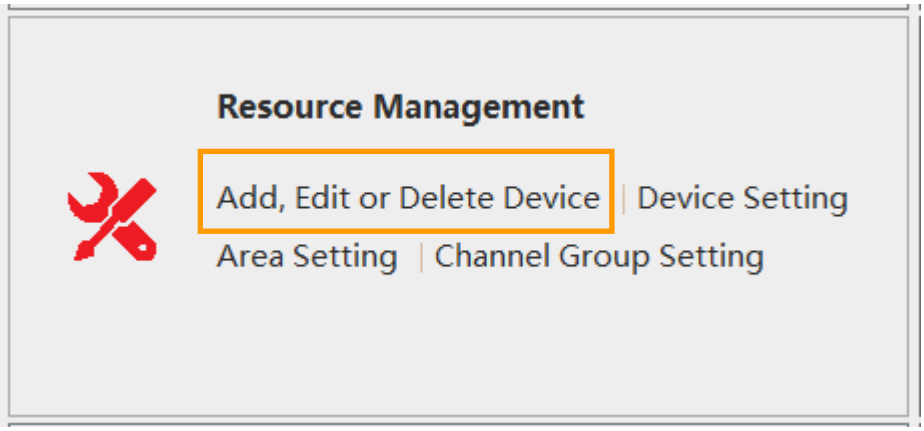
# BASIC FUNCTIONS

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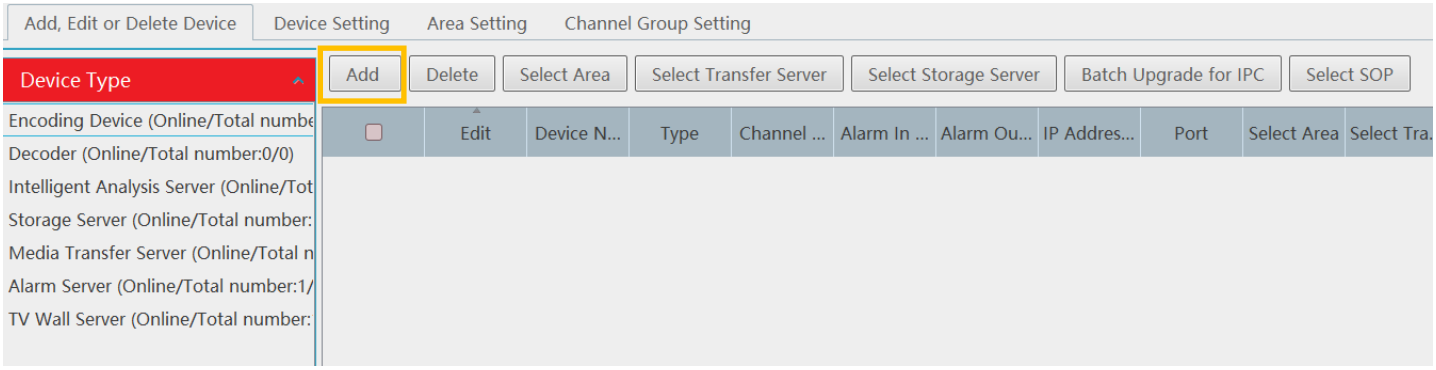
## 3. Basic functionality support.

### 3.1. Device adding

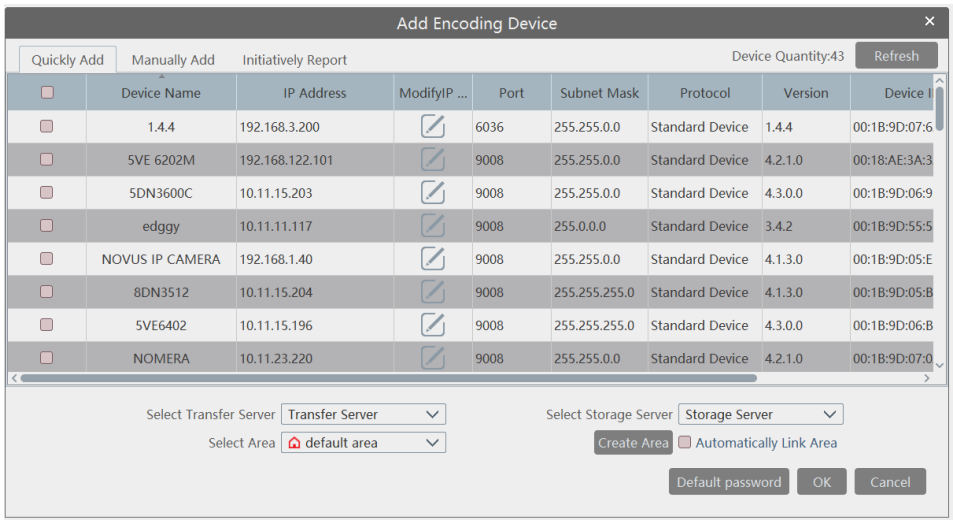
To add a device, find the Resource Management section




To add a device, find the **Resource Management** section add click on **Add, Edit or Deleted Device**. In the window that appears, click the **Add** button in **Encoding device**




A list of devices found by the program will be displayed in the window. To add a device from the list they should be marked with a checkmark in the selection field of the first column to the right of the list and then clicking the **OK** button.



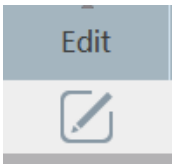

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## BASIC FUNCTIONS

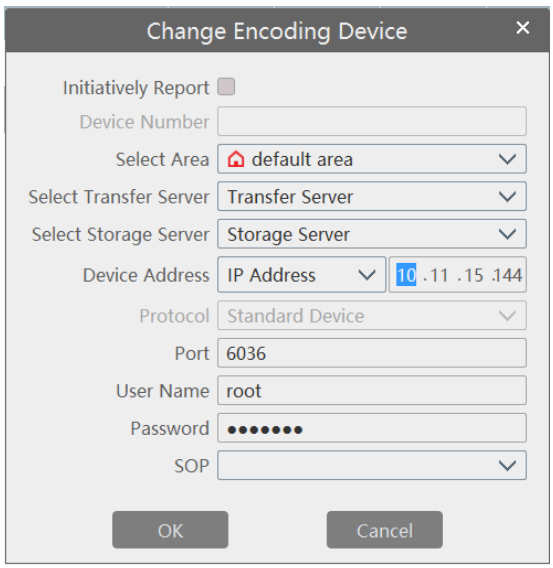
If the device has been correctly added, the device data will be displayed in black. A gray color in the data line and a status other than **Online** in the **Online Status** column means that the device has failed to connect.

| | Edit | Device Name | Type | Channel ... | Alarm In ... | Alarm Ou... | IP Address/IP Ra... | Port | Select Area | Select Transfer Se... | Select Storage Se... | Online St... |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ☐ | | 6408 lpr | Standard Device | 2 | 16 | 4 | 10.11.15.144 | 6036 | default area | Transfer Server | Storage Server | Online |
| ☐ | | 1.4.4 | Standard Device | 6 | 17 | 5 | 10.11.15.1 | 6036 | default area | Transfer Server | Storage Server | Wrong Pas |

To edit device parameters, click on the field in the **Edit** column.




In the opened window, you can edit connection parameters such as **Port, Username, Password** and **IP Address**. After making changes, press the OK button to save the parameters.



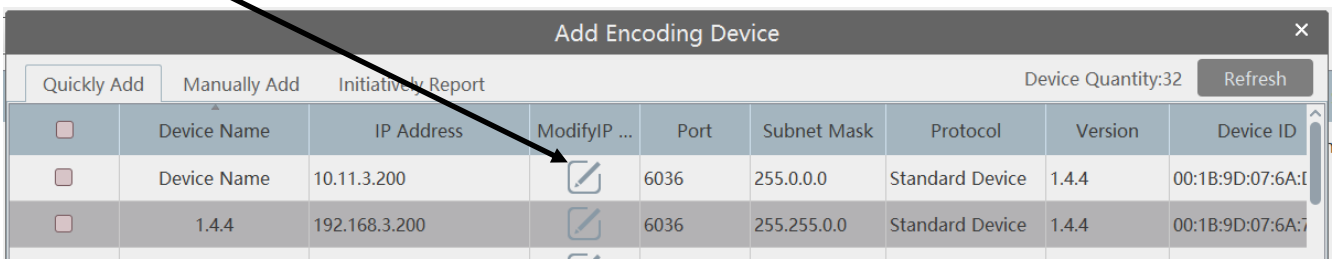

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# BASIC FUNCTIONS

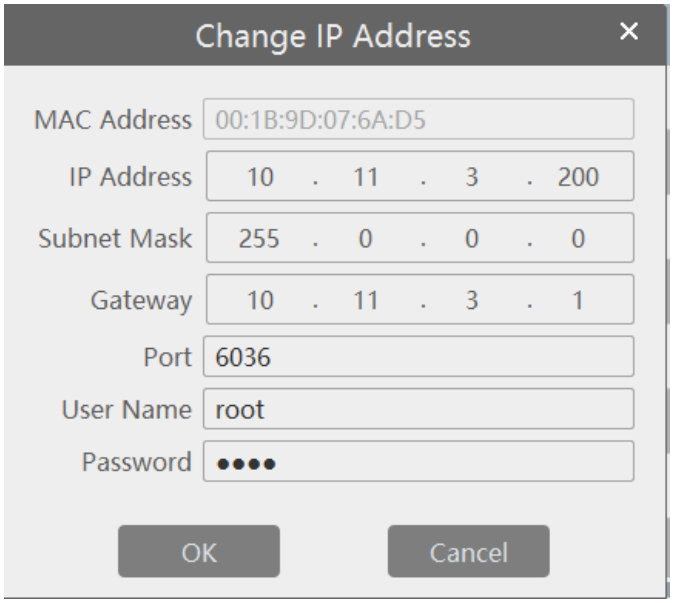
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### 3.2. Change the device's IP address

The device's IP address can be changed in the device search window before adding. Click on the **ModifyIP Address** field.

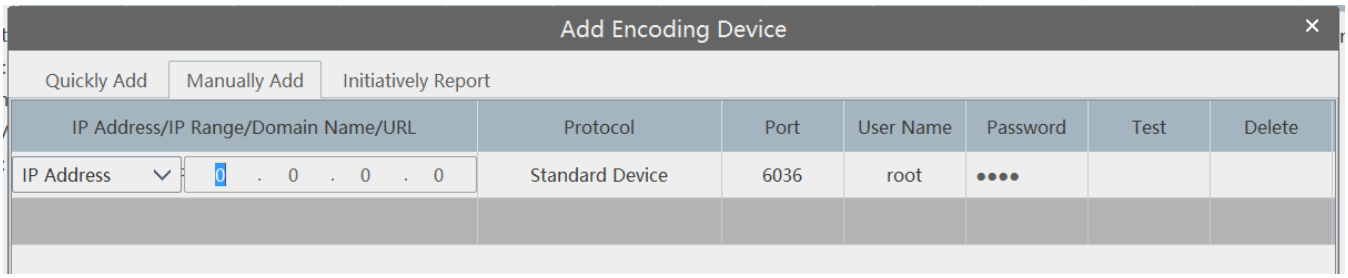



In the opened window, you can modify the following data: IP address, Mask, Gateway, Port, User name and Password. The network settings will be changed after pressing the OK button, if the credentials provided in the User name and Password fields are correct.




### 3.3. Manually adding a device.

To add a device to the program that is not searched, e.g. outside the local network, select the **Manual adding** tab in the search engine.




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The following address specification modes to connect to the device are available in the **IP Address / IP Range / Domain Name / URL** column:

**IP address** - The address of a single device given as decimal numbers

**IP range** - allows you to add more devices by specifying a range of IP addresses including the first and last addresses. Devices will be added with each available address between the ranges given. **Domain name** - allows you to enter an address using the domain name changed into an IP address using the DNS service

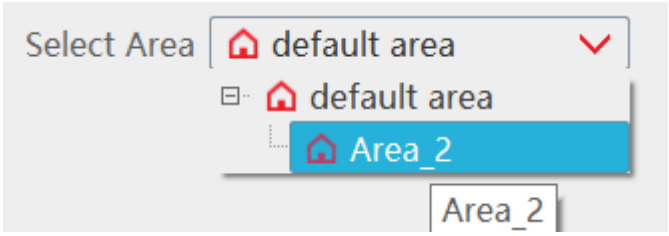
**URL** - Enter a URL to the RTSP streaming device.

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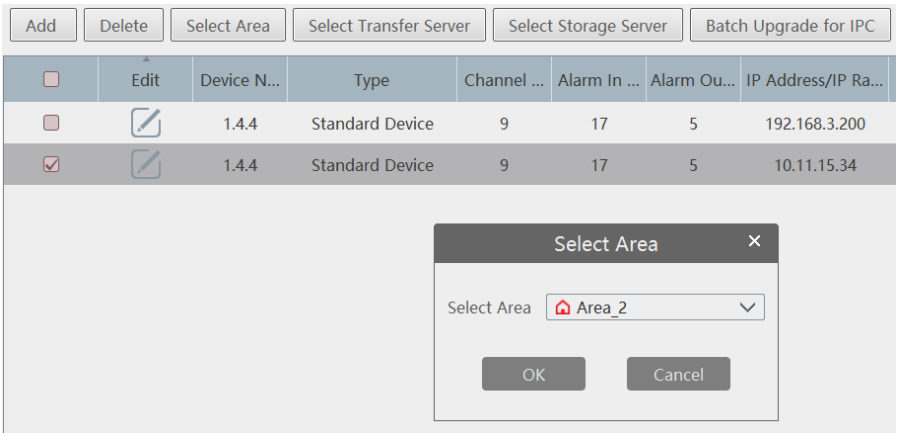
After defining the address to connect to the device, in the **Protocol** field, select **Standard device** for the recorder or camera, and in the **Ports** field, enter the data port (by default 6036 for the recorder, 9008 for the camera). Enter the login details in the **User** name and **Password** fields. After clicking the **Test** connection button, the program will check the connection. If the test is successful, press the **OK** button to save the parameters.

### 3.4. Adding devices to the zone.

The program has a defined default zone **Default area** to which devices are added, unless we define other zones. To add a zone, click on the **Create zone** button in search device window. In the opened window, select the **Parent Zone** and enter the required zone name in the **Zone name** field. When adding a device, in the **Select zone** field you can select the zone to which the device is to be added.




To transfer an already existing device, select the check box on the device list and click the **Select Area** button.




After selecting the target zone and pressing the **OK** button, the device will be moved to another zone.

### 3.5. Removing a device from the list.

To delete devices, select devices on the list and click the **Delete** button. In the window that opens, confirm your choice by clicking the OK button.

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# BASIC FUNCTIONS

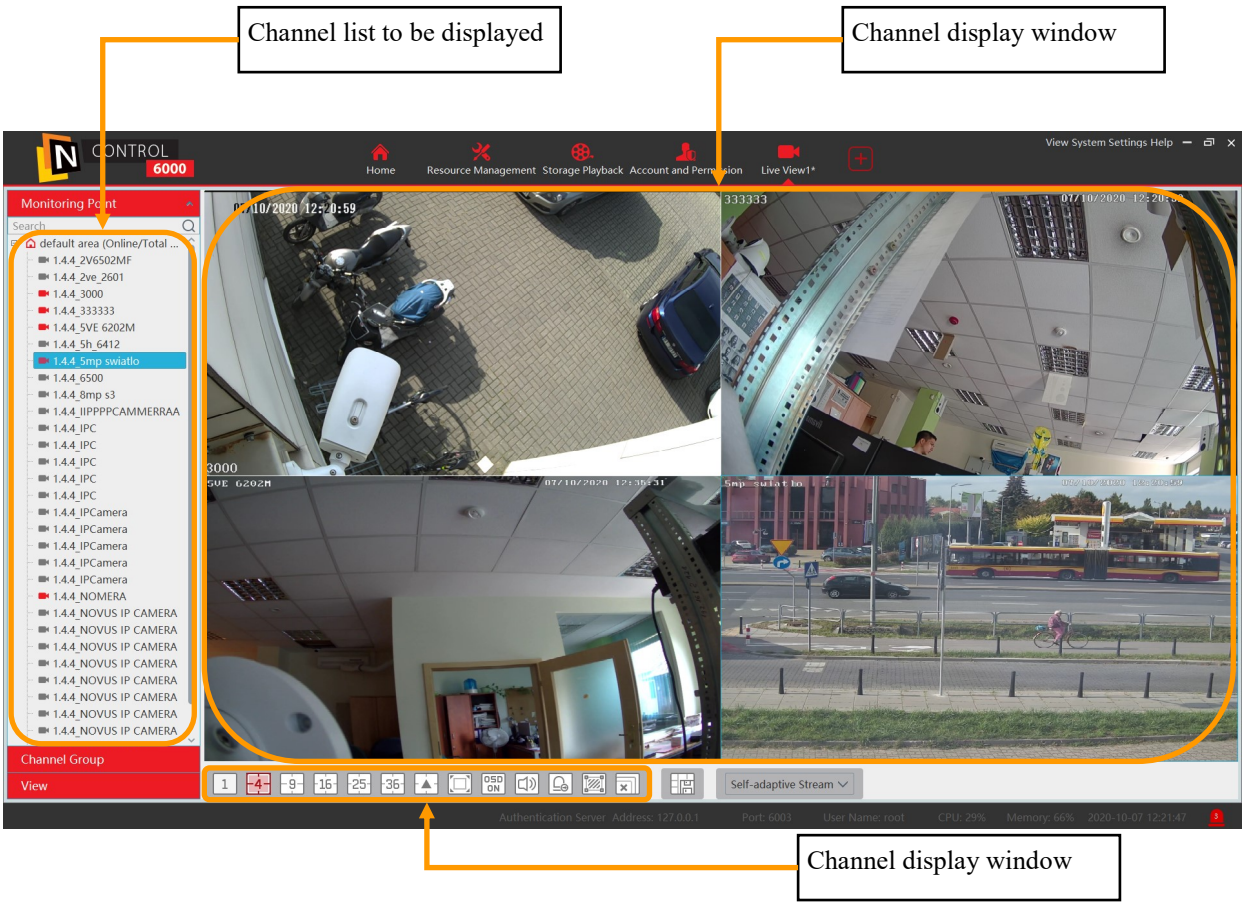
## 4. Displaying images from devices

### 4.1. Live view




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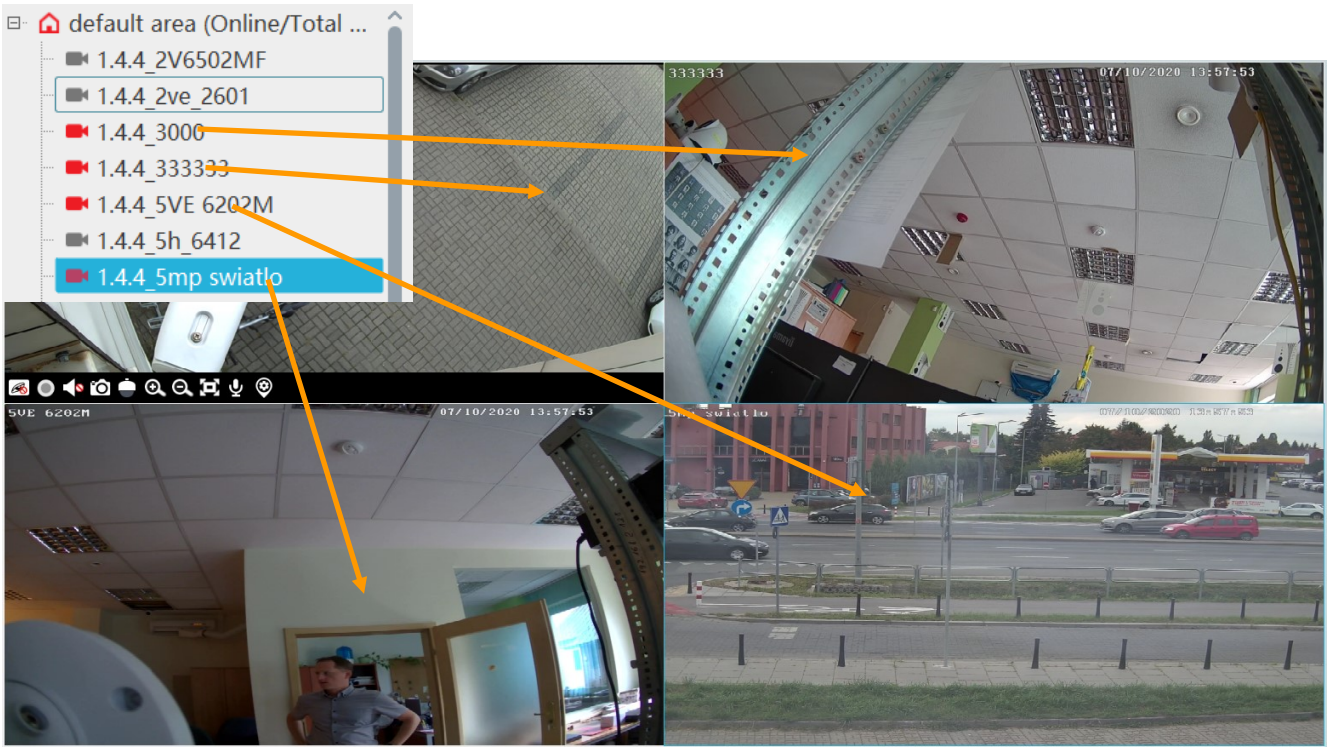
To switch to the image display, select from the bar at the top of the screen or select **Live View** form menu.




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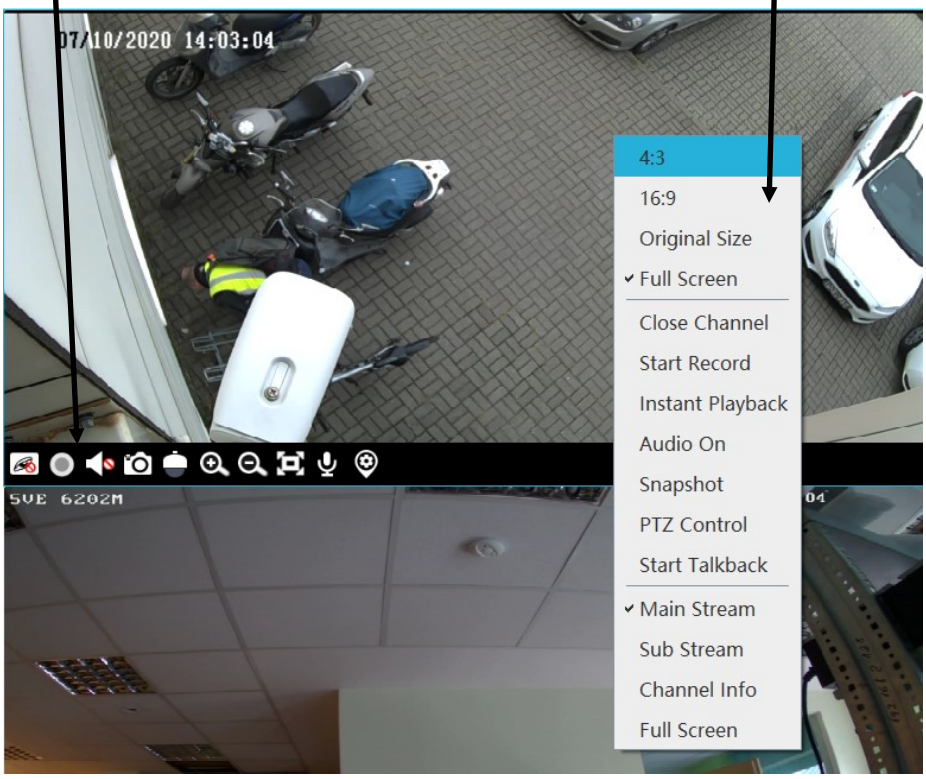
## BASIC FUNCTIONS

In the tab with the list of channels, expand the list of devices by clicking on the + field. From the expanded list devices, drag the selected channels while holding the left button to the display windows .




Positioning the mouse cursor at the bottom of the display window opens the display menu.

The display options are available after pressing the right mouse button on the displayed screen




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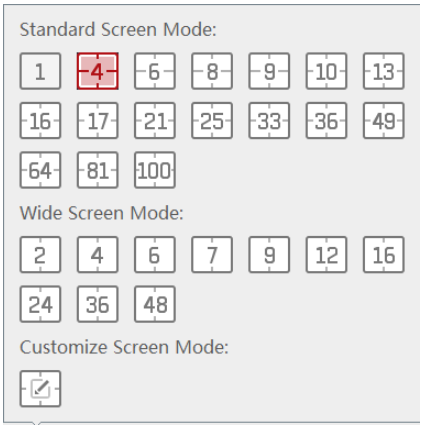
# BASIC FUNCTIONS




The selection of divisions is available after clicking on the icon of one of the divisions



After clicking the button for additional divisions a window with additional divisions is displayed.




Additionally, the following settings are available on the bar:

 - displaying video images in full screen




- enabling / disabling OSD display in video windows

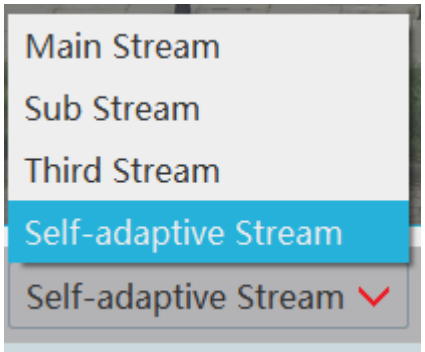
 - enable audio broadcasting from selected devices

 - manual activation of alarm outputs on connected devices

 - enable / disable display of detection areas

 - disable display for all cameras in the window

 - saves display layout



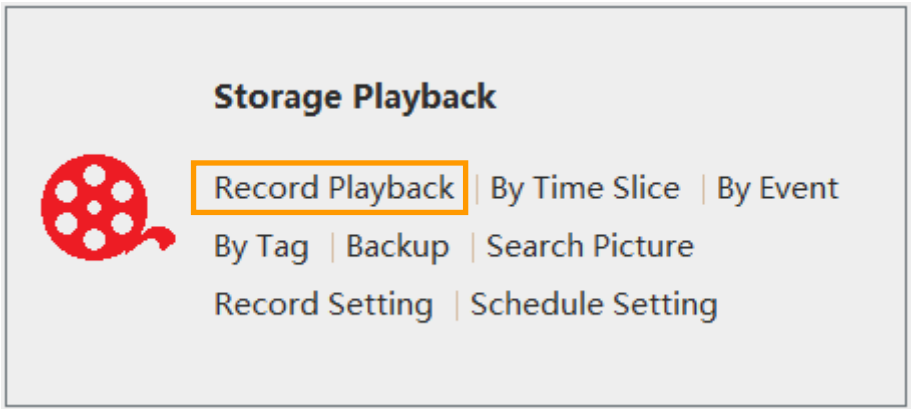

- selection allows you to manually select the type of stream displayed in the window.

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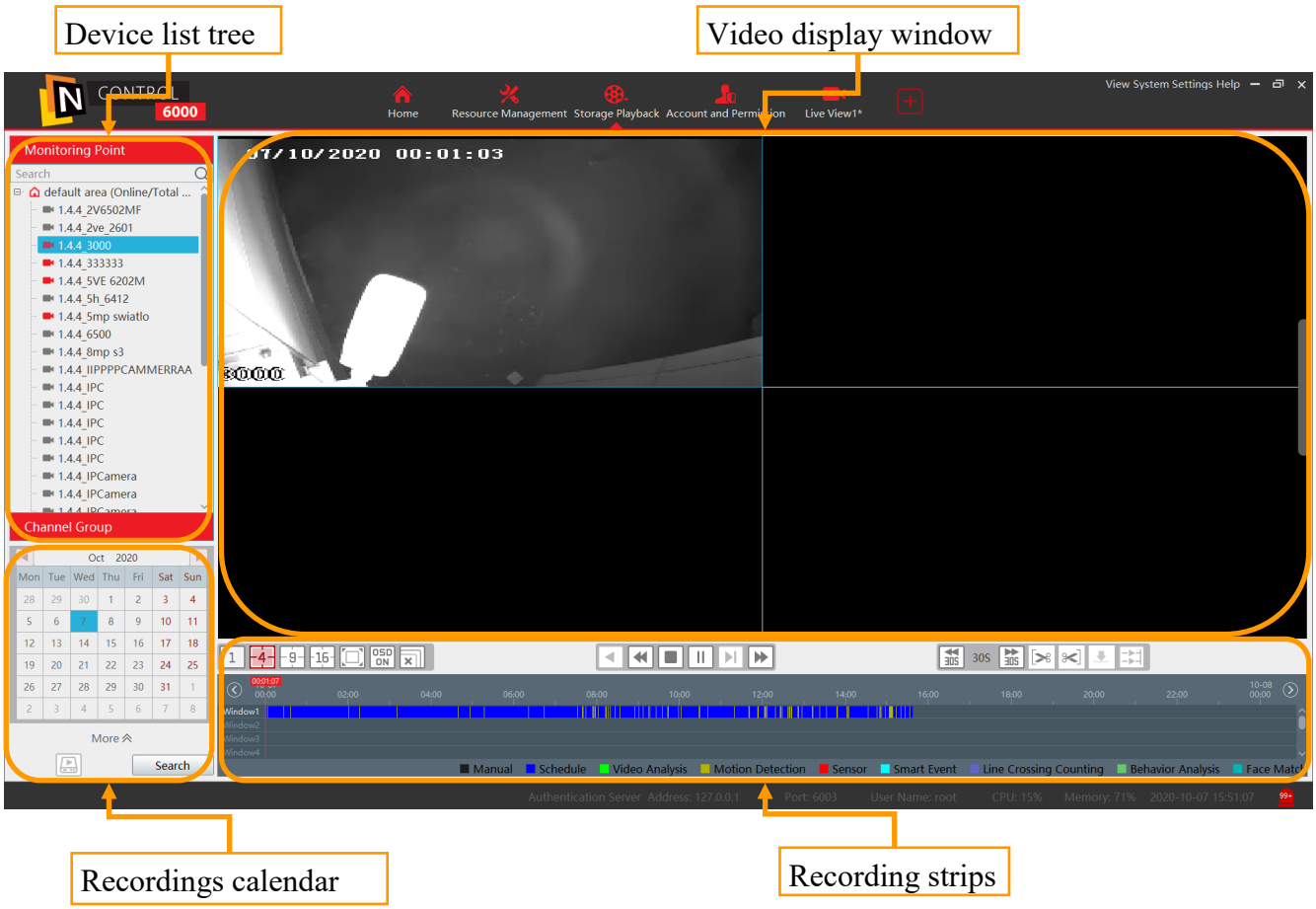
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## 4.2. Records playback

To run the recordings playback window, click on the **Record playback** in **Storage Playback** menu.




The recordings playback panel is displayed then.




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# BASIC FUNCTIONS

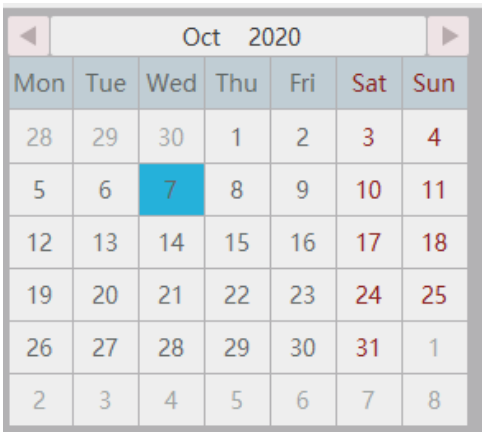
In the lower left corner of the program there is an icon in which the settings mean the program has play recordings from external devices such as recorders or use the recordings saved by the program on the selected partition.

 - selects recordings from external devices

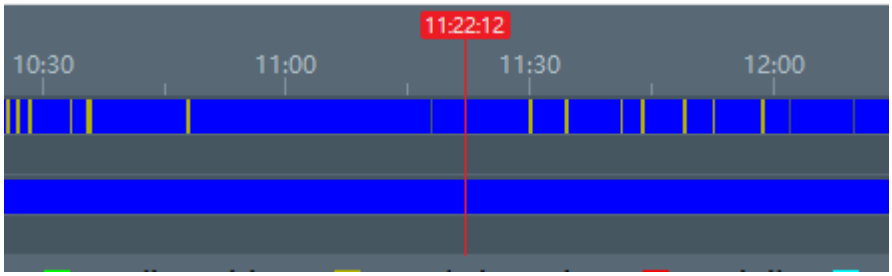
 - selects playback of recordings saved in the client software

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To view the recordings, move the name of the selected channel from the list on the left while holding left mouse button to right video window. At the bottom of the menu, a bar is displayed specifying the length of available recordings for the selected day. To change the day of playback, select it in the calendar window. Days for which devices with recordings are marked in blue.




Clicking on the calendar opens the day and displays a bar of available recordings. Clicking on the bar starts playback at the selected point in time. The colors of the record bar indicate the type of recordings according to the descriptions at the bottom of the playback window.




In the record control bar there are buttons for selecting splits and controls displaying images in windows.

The following buttons are used to control playback

 - Rewind

 - Slow playback

 - Stop playback

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- Play / Pause


-Next frame. The button is active after pausing the material


- Speed up playback

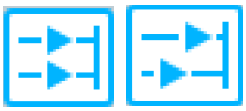


- Play 30 seconds forward or backward.


- Selection of backup start time


- Selection of backup end time


- Run a backup


- multi-channel synchronous / asynchronous reproduction switch.

### 4.3. Copying recordings from the playback window

It is possible to copy recordings from the material playback panel.

From the channel list on the left, drag a channel to the video display window.




A bar showing the available scope of the recording will be displayed in the window below. To switch to recordings from the main stream, right-click on the video screen.

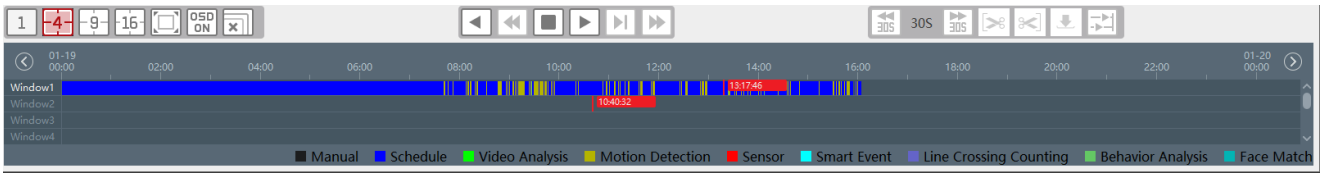
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# BASIC FUNCTIONS

In the displayed window, select the **Main Stream** option to display and rip the main stream.

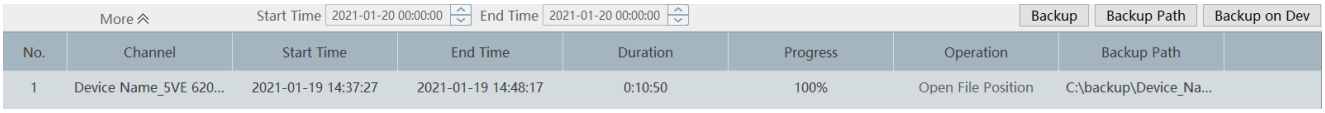
After loading the recordings bar, click on the bar at the point in time from which you want to start copying recordings and click on the button  .

Then select the point in time you want the recording to end and press the button  a white bar will be displayed on the time bar indicating the time of the clip to be copied.




Then select the point in time you want the recording to end and press the button  .

After clicking the button, the **Backup** panel opens with information about the backup being made. The saving path is displayed in the **Backup Path** column. Clicking the **Open File Position** item in the **Operation** column opens the window in which the files are saved.




The **Start Time** and **End Time** fields contain information about the start and end time of the recording file. The Progress column shows the percentage of the copy performed. If the field in the **Progress** field displays a value of 100%, it means the backup is completed.

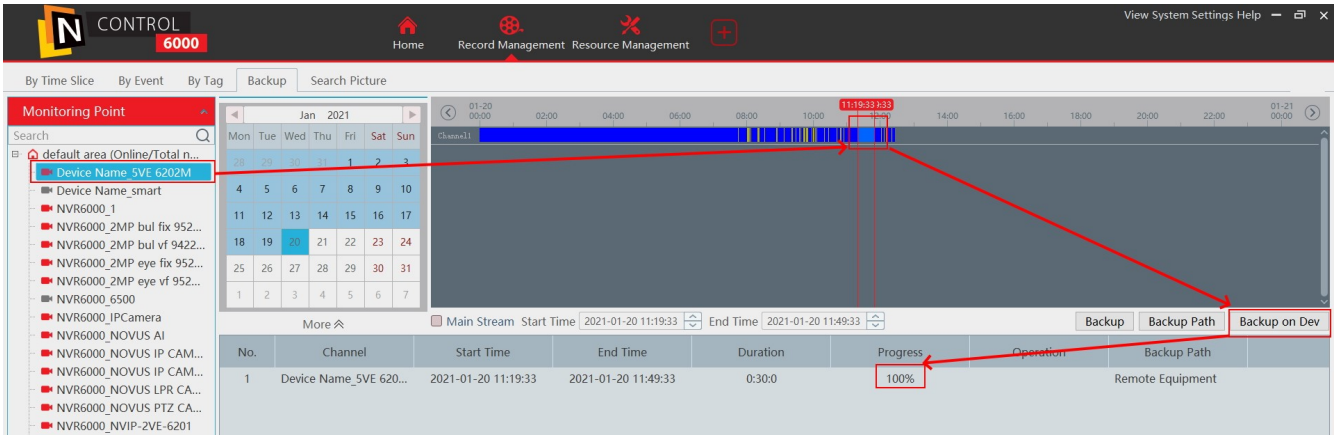
### 4.4. Copying recordings to the remote device

The program enables remote backup of recordings to a USB flash drive in the recorder. The copying process can be started without the necessity to log into the recorder by a local user.

To start remote copying, select **Backup** in the **Storage Playback** section.

In the menu that opens, double-click on the selected channel from the list on the left to load the bar showing the type and time of recordings. The selected time range of recordings should be marked by clicking in the selected place on the bar and holding the left mouse button, select the end of the recording and then release the mouse button. The copying process will start after clicking the **Backup on Dev** button. (Be sure to connect the disk recorder to the USB port.) The **Progress** column shows the percentage of the copying process. 100% means copying the material.

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After the copying process is completed, you can disconnect the USB disk from the recorder. The video data will be saved in AVI format.

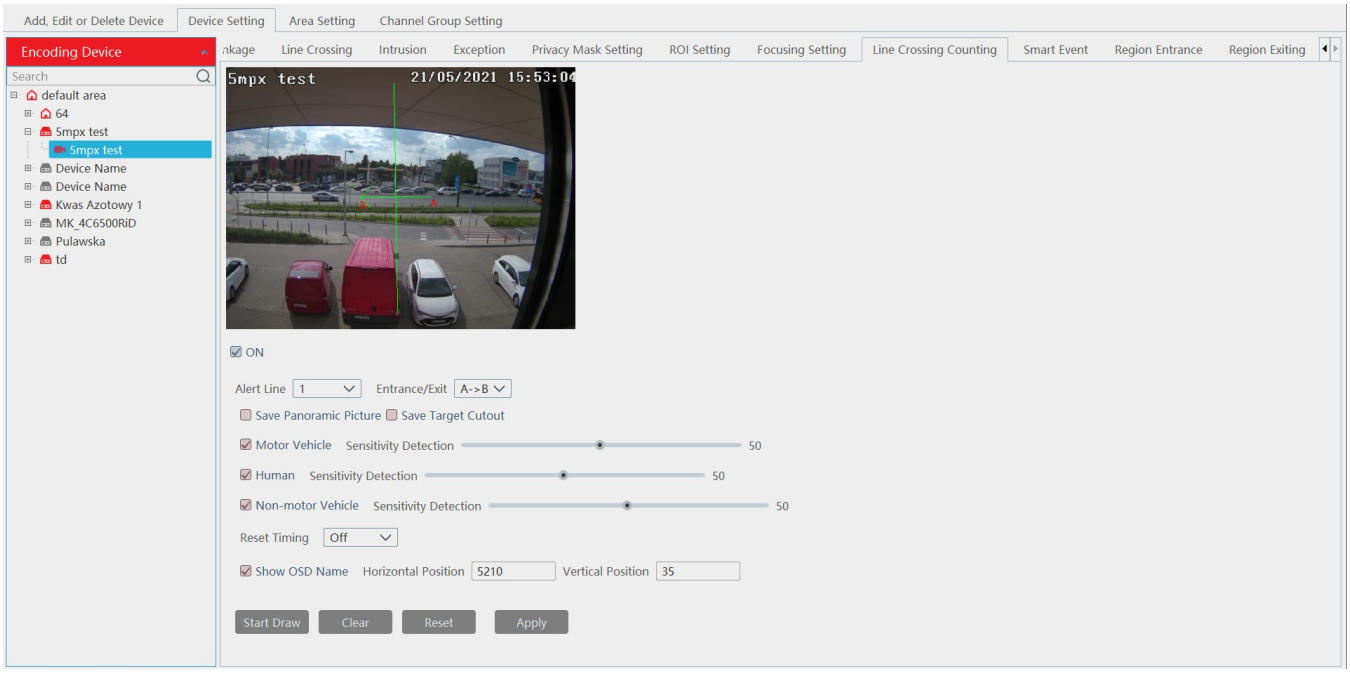
## 5. Line Crossing Countig

The program receives events from selected NOVUS 6000 series IP cameras with people and vehicles counting functions. This feature should be enabled and configured on the camera.

To display the configuration window, in the **Function selection** window, select the **Line Crossing Counting** crossings box. The Count of line crossings tile will then appear in the start panel.

### 5.1. Configuration of the line crossing counter in the N Control 6000 software.

Counting settings for the camera, select **Resource management** in the main menu then select **Device Setting** tab. In the device tree, expand the device name with the button and click on the expanded branch. At the top of the menu, scroll to the **Line Crossing Counting** tab.



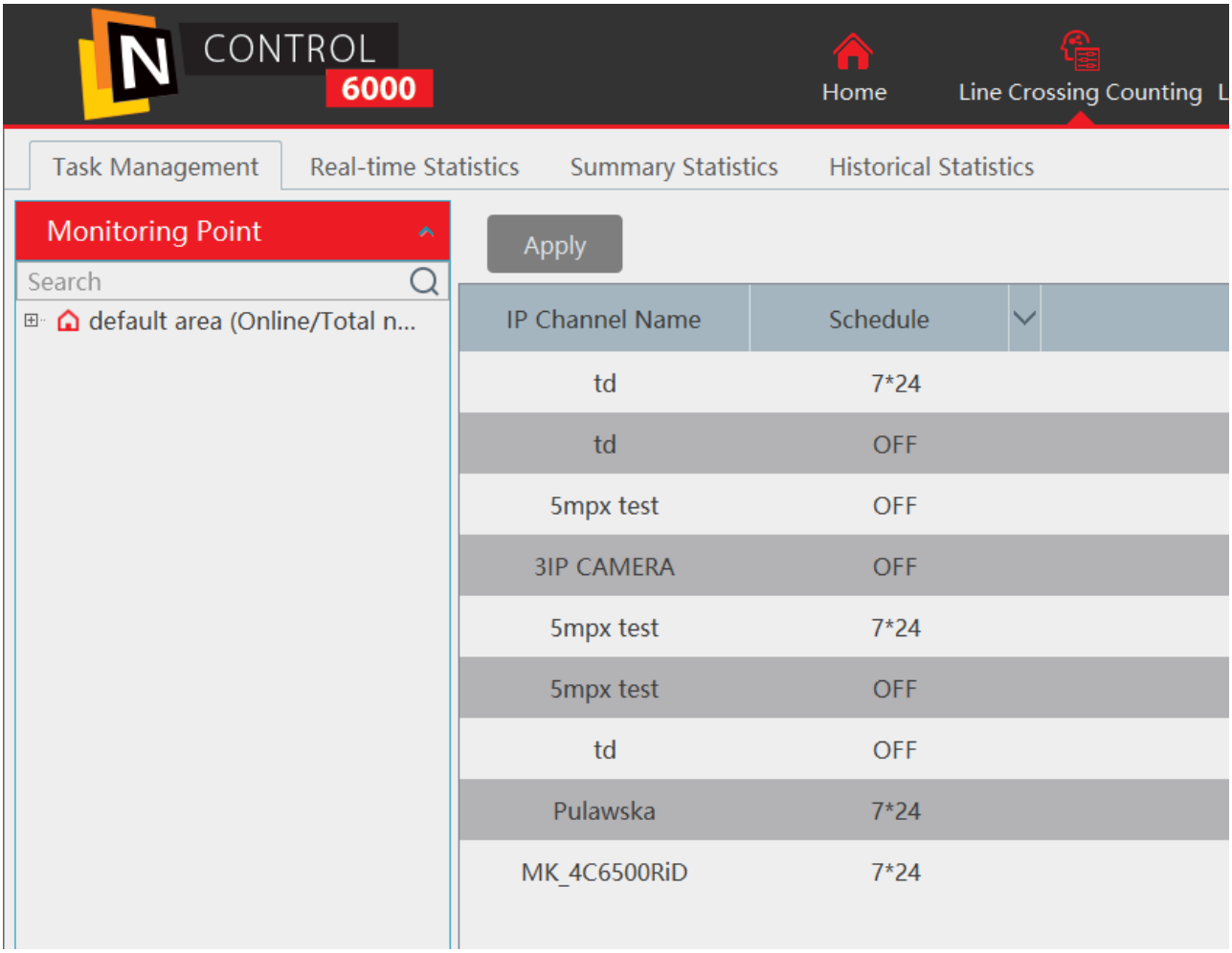

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Then press the **Apply** button to save the parameters. A detailed description of the counting function configuration can be found in the full manual for IP 6000 cameras available at www.novuscctv.com.

### 5.2. Setting an operation schedule in the N-Control 6000 software.

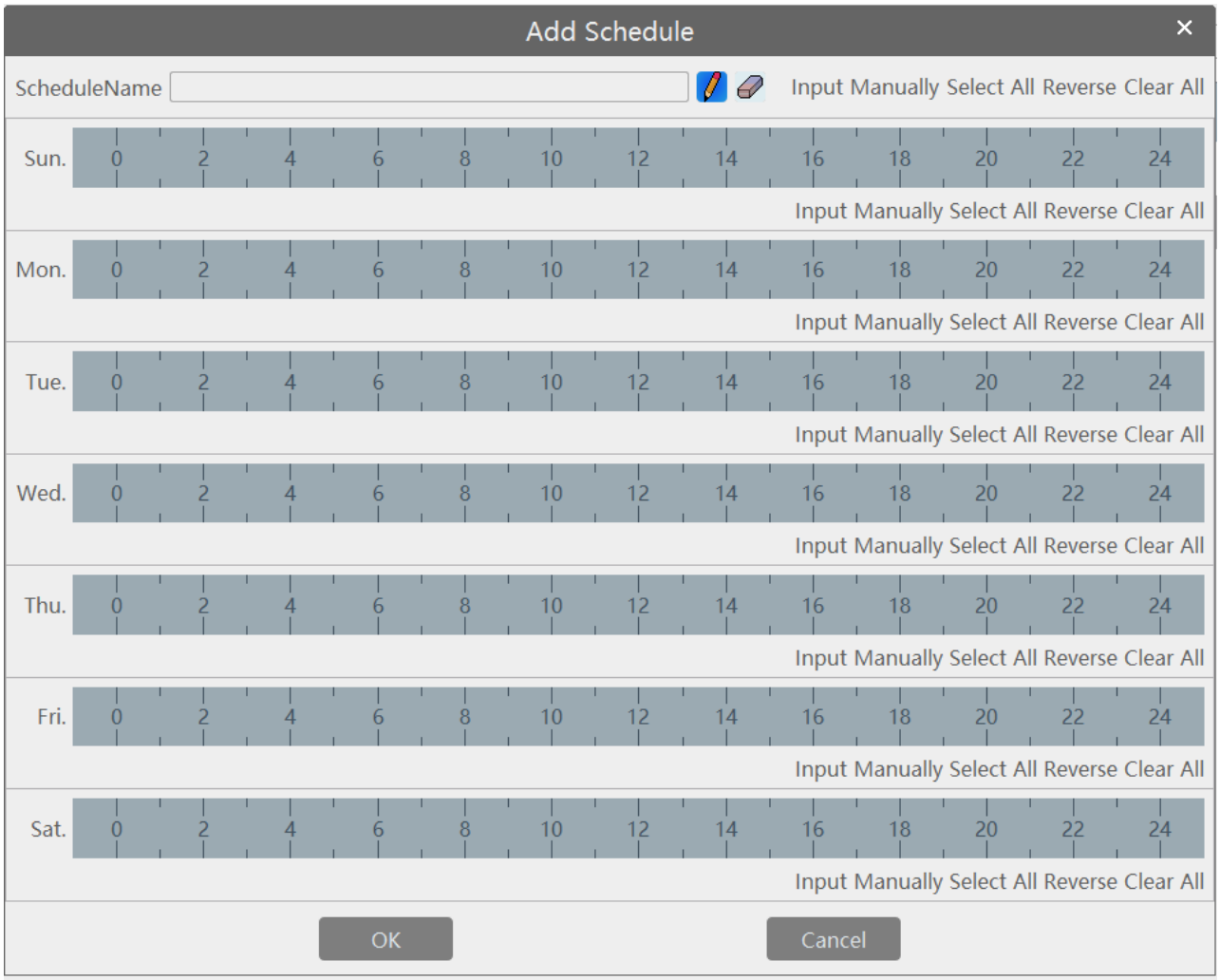
To start monitoring, you must set the count monitoring operation time. To do this, select the **Task management** tab in the **Line Crossings Counting** window. In the schedule column, select one of the available schedules and press the **Apply** button. The schedule is set in the program 7 days x 24 hours and 5 days x 24 hours (working days).




In order to set your own schedules, select the **Schedule Settings** field in the main menu in the **Storage Playback** section. After clicking on the **Add** button, the schedule adding window opens. In the opened **Add schedule** window, enter your own schedule name in the **Schedule Name** field. The easiest way to set it is to select it by clicking and select the range by holding the left left mouse button in the selected time range.

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The **Input Manually** field, which allows you to enter times in the **Start time** and **End time** fields, can be used to precisely set the times.




The **Select All** button automatically marks all the fields of the graphs. Clicking on the **Reverse** button means unmarked but deselects already selected parts of the graph. The **Clear** button removes all selections from the charts.

Clicking the **OK** button saves the schedule settings.

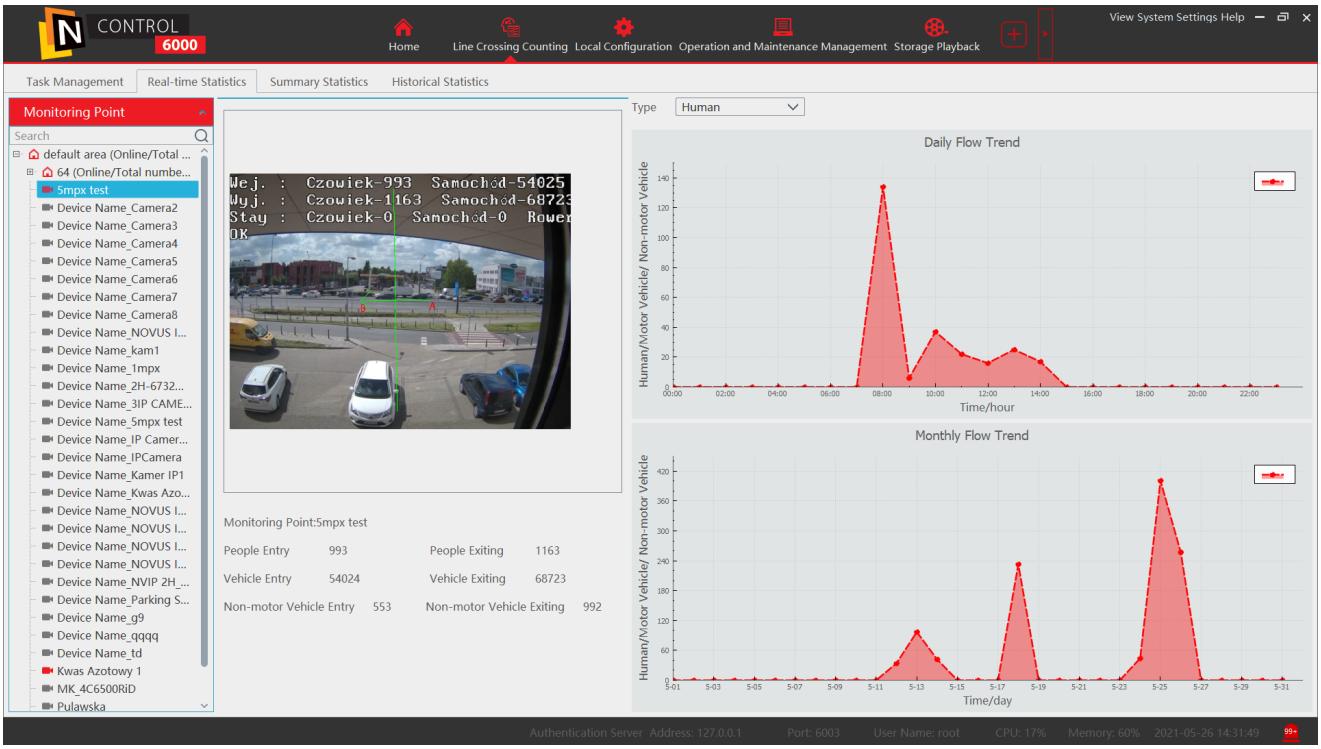
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## 5.3. Real-time Statistics.

The display window displays statistics from the selected camera. You need to double-click on the name of cameras from the list on the left to load the information about the passages. Under the video window, data on all types of transitions from the selected meter are displayed. The charts on the right will be loaded with daily and monthly data. The Type field is used to select the type of data from the monitored doorway (to choose from: **Human, Motor Vehicle, Non-motor Vehicle**).

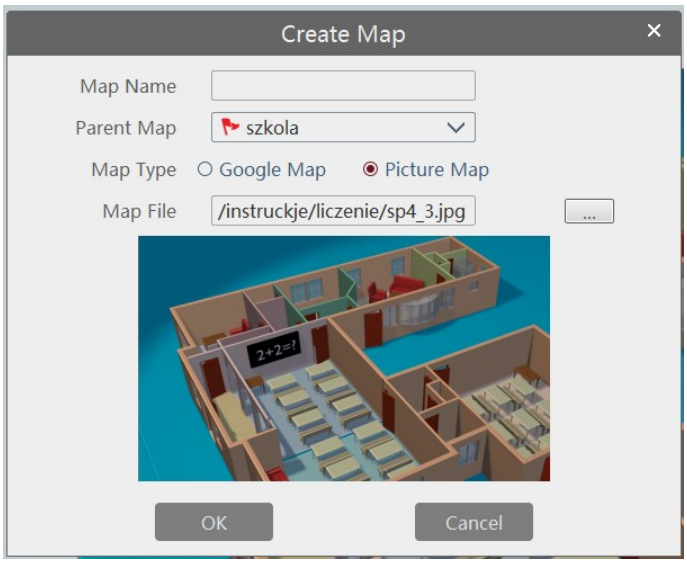



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## 5.4.Summary Statistics.

Before configuring summary statistics, you must configure E-maps with monitor points. In the start window, click on the **E-map** button. In the opened window, click on the **Create Map** button. In the **Map Name** field, enter the name of the map in the window, we can use maps from google maps or set a graphic file as your own map. Then, from the list on the left, select the monitoring point from the tab and, holding the left mouse button, move it from the list to the selected point on the map. To save the settings, press the **OK** button.




Then select the **Summary Statistics** item in the Main menu in the **Line Crossing Counting** window. In the opened window, first select a map from the list on the left. A map with monitoring points will be displayed in the center of the menu.




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In the **Type** field, select the type of monitored objects such as: **Human**, **Motor Vehicle**, **Non-motor Vehicle**.

The windows on the top right show the distributions of the number of entries on a daily basis, below the chart of entries on a daily basis for the last week.

Wheel counters show the number of people remaining in the monitored crossing.

The **Daily Max. (Inside)** shows the maximum number of objects that remain in the monitored room on a given day.

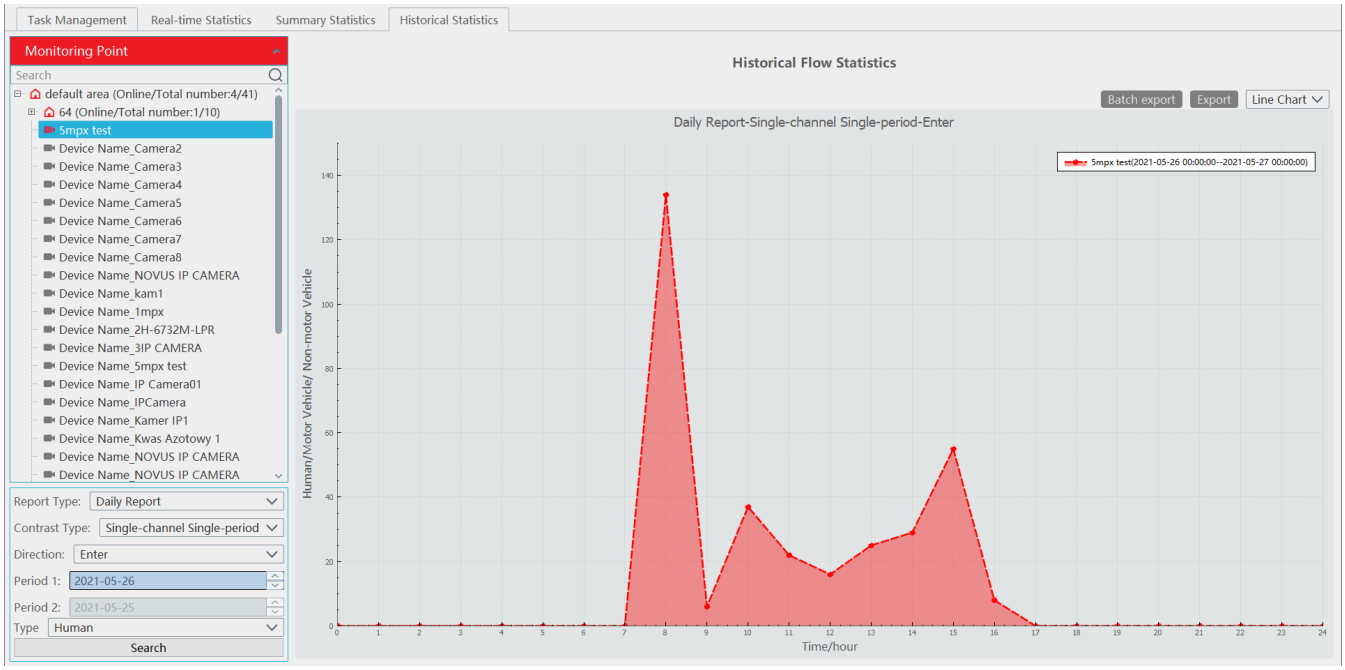
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The **Current No. (Inside)** counter shows the current number of objects remaining in the monitored area. The operation of this counter depends on the software of the cameras used for monitoring. If the camera supports the calculation of objects remaining for the monitored passage, the counter will count down the object exits from the monitored area.

If there are several monitoring points on the map, the program will show aggregate data for all points.

### 5.5. Historical Statistics.

The **Historical Statistics** tab allows you to display and export data at monitoring points.



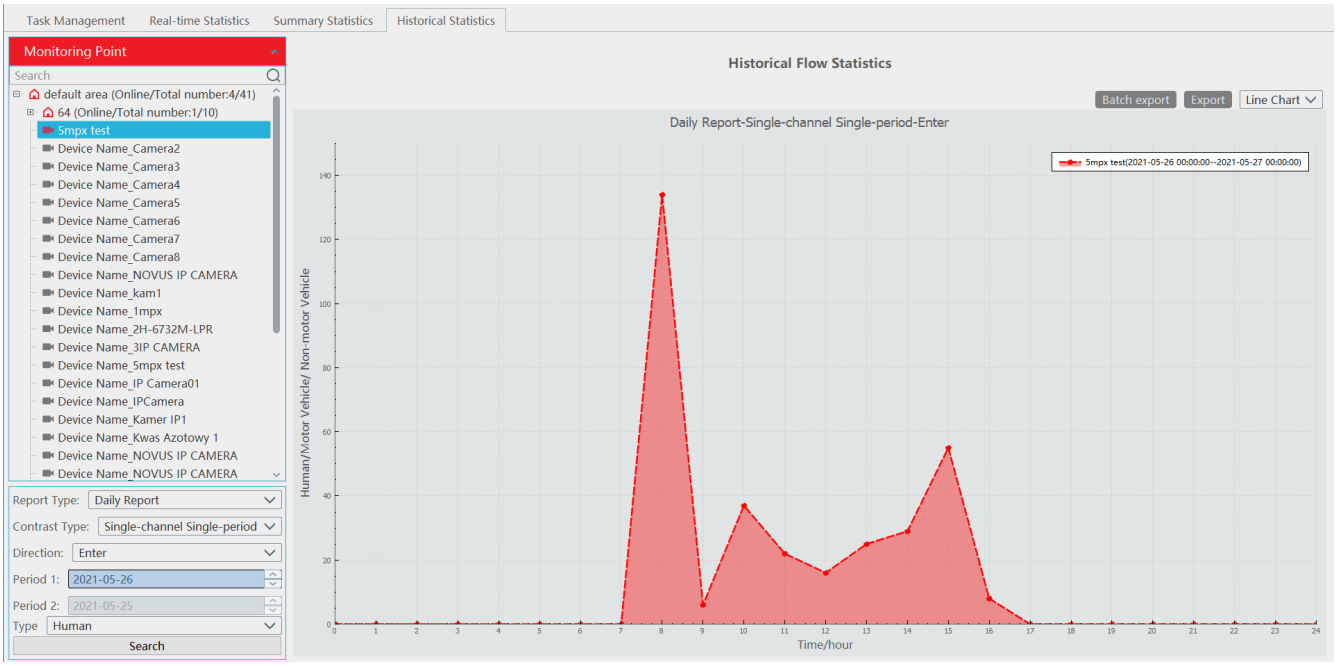

In the device tree on the left, double-click on the name of the door monitoring camera. You can adjust the data range for the desired data graphs in the fields below the device tree. The following settings are available:

**Report Type** - enables the temporal range of data for an annual, monthly, daily period.

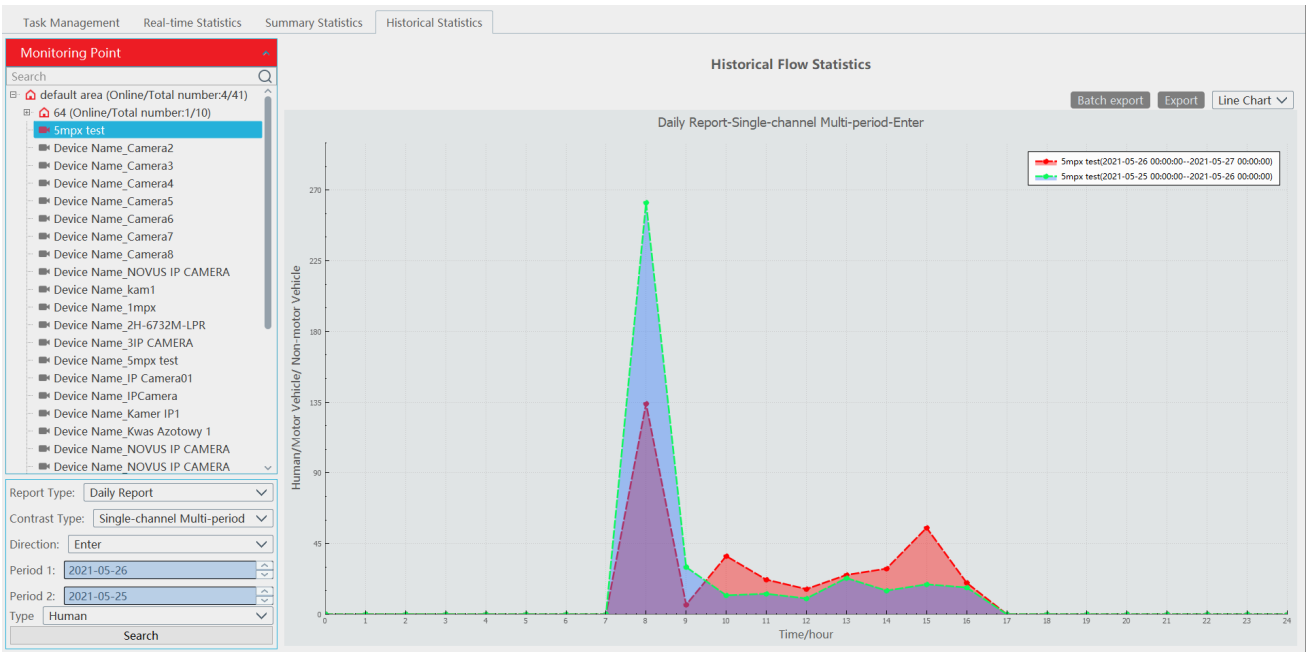
**Contract Type** - selects the type of data presentation on the chart:

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**Single-channel Single-period -** presents data on one channel in a selected period of time. Set in the **Period 1** field.



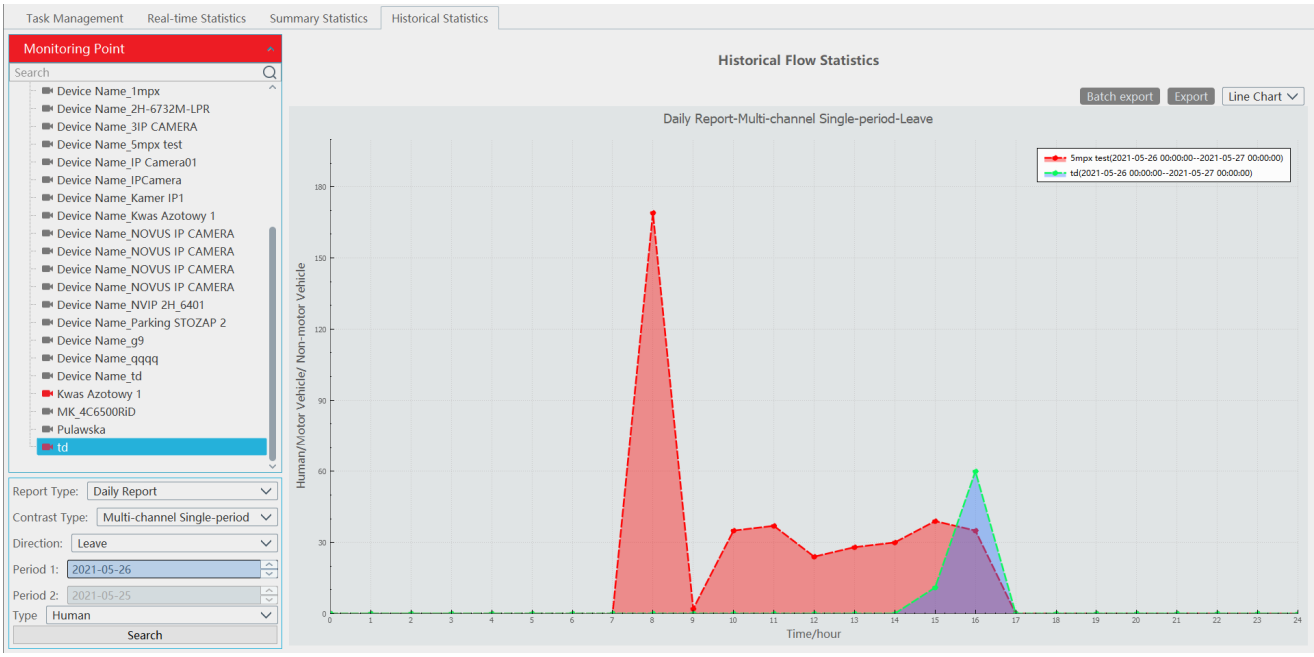

**Single-channel Multi-period -** will display two graphs covering two time ranges. In the **Period 1** and **Period 2** fields, one should set depending on the date selected in the **Report Type** field. Different years for the annual report, different months for the monthly report, and different days for the report.




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**Multiple Channels, One Period** - Displays a graph of data for two channels in the selected time range. Use the CTRL + Left mouse button to select two channels in the device tree. In the **Period 1** and **Period 2** fields, set the time range depending on the selected **Report Type**.




In the **Type** field, select the type of objects that have been monitored **Human**, **Motor Vehicle**, **Non-motor Vehicle**.

After setting the required parameters, press the **Search** button to download the data and display the graph. In the upper right corner there is a **Line Chart** / **Bar Chart** switch that allows you to toggle the graph view. Clicking the **Batch Export** button allows you to export the data from the chart to an excel file or a png graphic file.
The **Export** button allows you to export data from several cameras at the same time. After clicking it, the list of cameras to be exported will be displayed. In the **ExportType** field, you can set the type of export to an excel file or a picture of the data chart.

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# NOTES



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