

AxxonSoft

Monitoring

Software Package

Installation and Configuration Guide

Version 1.5

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1 Introduction

1.1 Document purpose

This document, *Monitoring Software Package: Installation and Configuration Guide*, is a reference aid for system administrators, configuration and installation specialists, and users with administrator rights on the Intellect PSIM.

This guide describes the following:

1. Purpose of Monitoring
2. Hardware and software requirements for Monitoring
3. Installing Monitoring
4. Configuring Monitoring components

1.2 Purpose of Monitoring

Monitoring is designed to automate the activities of personnel at service companies involved in the operation of Intellect-powered video surveillance systems. The purpose of Monitoring is to improve the quality of operation for such video surveillance systems.

1.3 Features of Monitoring

Monitoring receives, records, and visualizes messages about the state of security system components, based on the following key parameters:

1. Camera operability
2. Network functioning
3. Operability of video subsystem software
4. Amount of recorded video
5. Hard disk operability
6. Operability of fire/security and access control systems
7. UPS signals

In addition, the module allows monitoring the actions of monitoring operators: recorded is performed of whether an alarm has been accepted, how much time passed before the alarm was accepted, and so forth. The built-in system for statistics and analysis generates reports on system operation: reports on alarms, downtime, statistics on security system operation, and more.

2 Hardware and software requirements

2.1 Operating system requirements

Monitoring is provided as executable modules that can be run on the operation systems supported by the Intellect software (see the *Operating system requirements* chapter in the *Administrator's Guide*).

The software is compatible with standard operating system settings. On Windows Vista and later, UAC must be disabled. In Windows 8 and 8.1 it is necessary to configure security policies in order to entirely disable UAC (configuring security policies is described in the *Administrator's Guide*).

2.2 Hardware requirements

Monitoring can run on PCs that meet the following minimum hardware requirements:

1. Intel Core i5 750 CPU
2. 2 GB RAM
3. 200 GB HDD
4. NIC
5. X.25 controller (if necessary)
6. Uninterrupted power supply (UPS)

3 Installing Monitoring

3.1 Installer

The Monitoring installer is based on InstallShield 2010 and includes the file setupMonitoring.exe (Fig. 3.1 – 1).

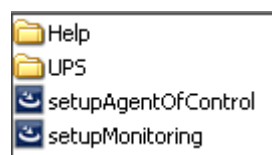


Fig. 3.1 – 1 Contents of the Monitoring installer kit

Documentation is included in the Help folder. The UPS folder contains the software components that are necessary for the Control Agent to perform monitoring of UPS status.

Before beginning installation, copy the installation kit to a local disk and make sure that the indicated files are not marked as "read-only".

3.2 Preparing for installation

Before installing *Monitoring*, install *Intellect* in remote administrator workstation (RAW) mode.

Information on compatibility of *Monitoring* and *Intellect* software versions is given on the page [General information about product releases and versions compatibility](#).

The program key, intellect.sec, should contain the **Server of Control** object.

For Server of Control to operate, there must be an available database server. During installation of Intellect, MS SQL Server 2008 R2 Express is installed to a "clean" (fresh) system.

Server of Control is compatible with the following servers:

- MS SQL Server 2008 R2
- MS SQL Server 2012

3.3 Installation

Installation of Monitoring is performed in the following sequence:

1. From the installation kit, start the executable file setupMonitoring.exe. A dialog box appears, informing of the beginning of installation (Fig. 3.3 – 1).

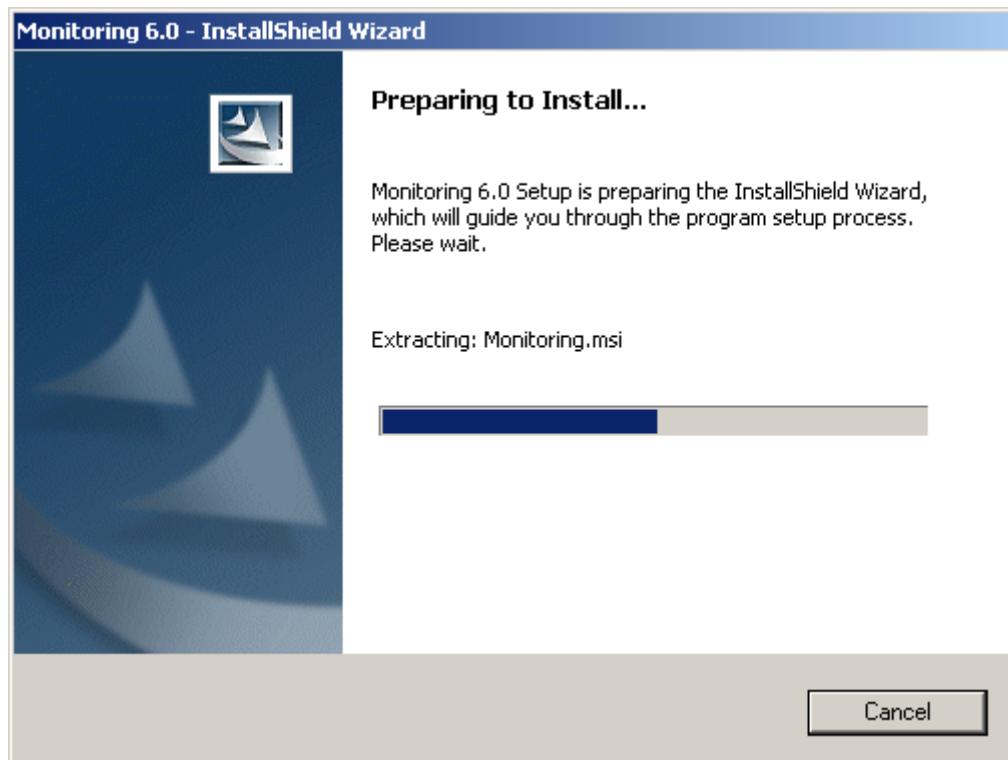


Fig. 3.3 – 1 Preparing for installation

2. A prompt to start installation then appears (Fig. 3.3 – 2). Click the **Next** button.

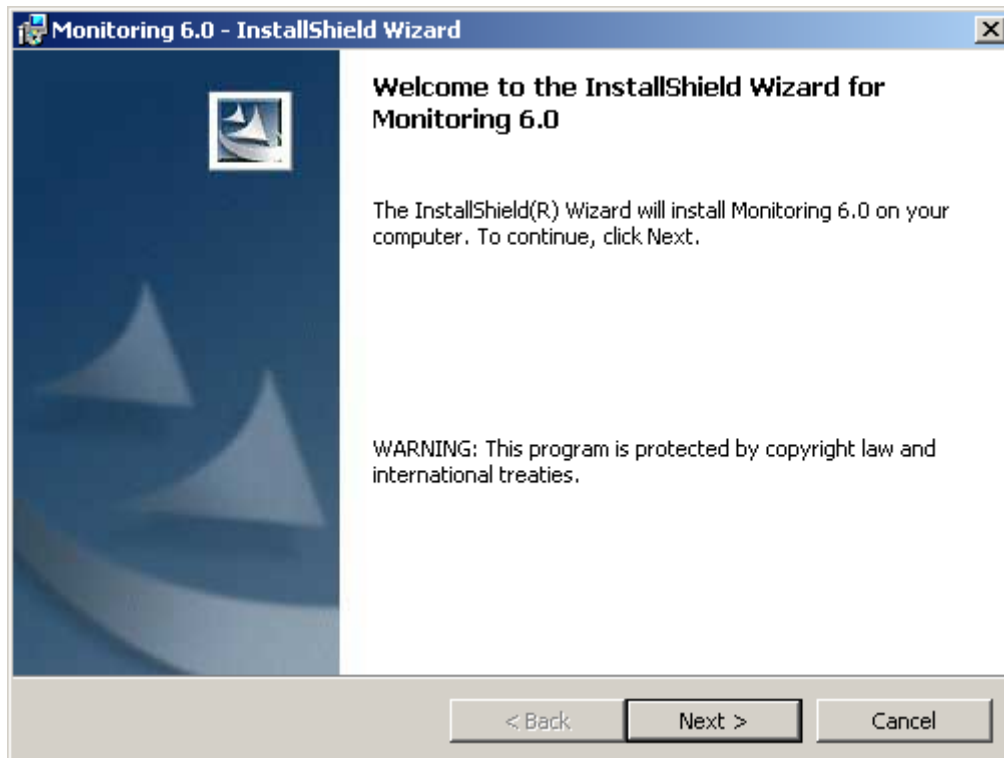


Fig. 3.3 – 2 Beginning installation

3. The **License Agreement** window presents the terms of the end user license agreement. Select **I accept the terms of the License Agreement** and click the **Next** button (Fig. 3.3 – 3).

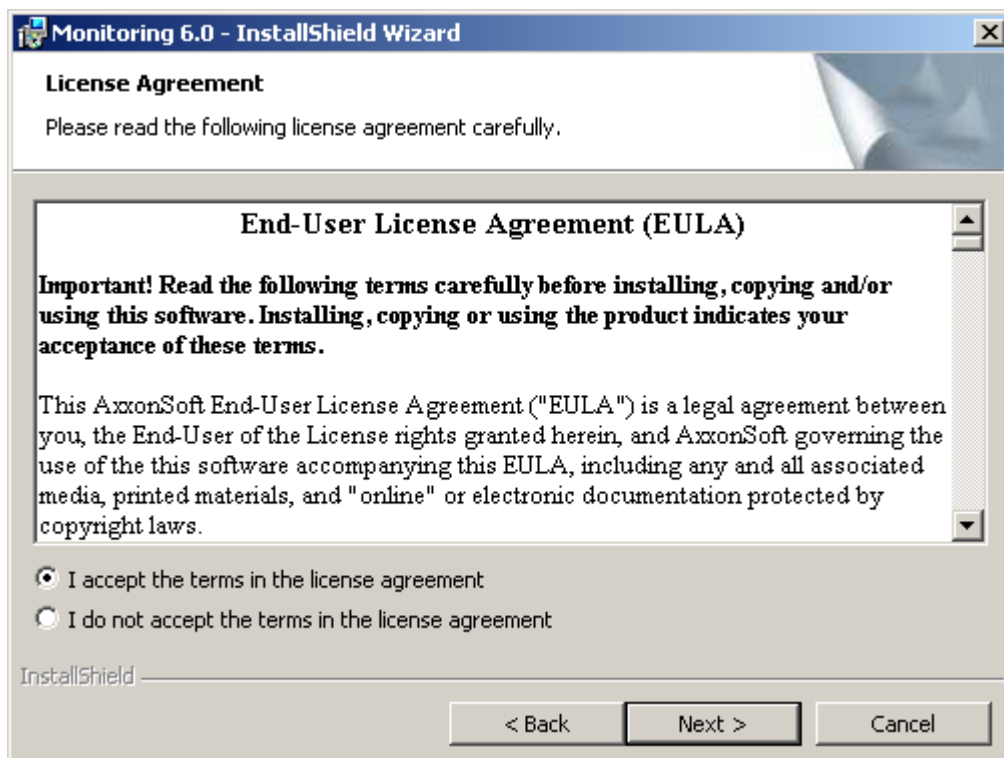


Fig. 3.3 – 3 License Agreement

4. A form appears, allowing you to select the components to install. Install all available components. To do so, click the **Next** button (Fig. 3.3 – 4).

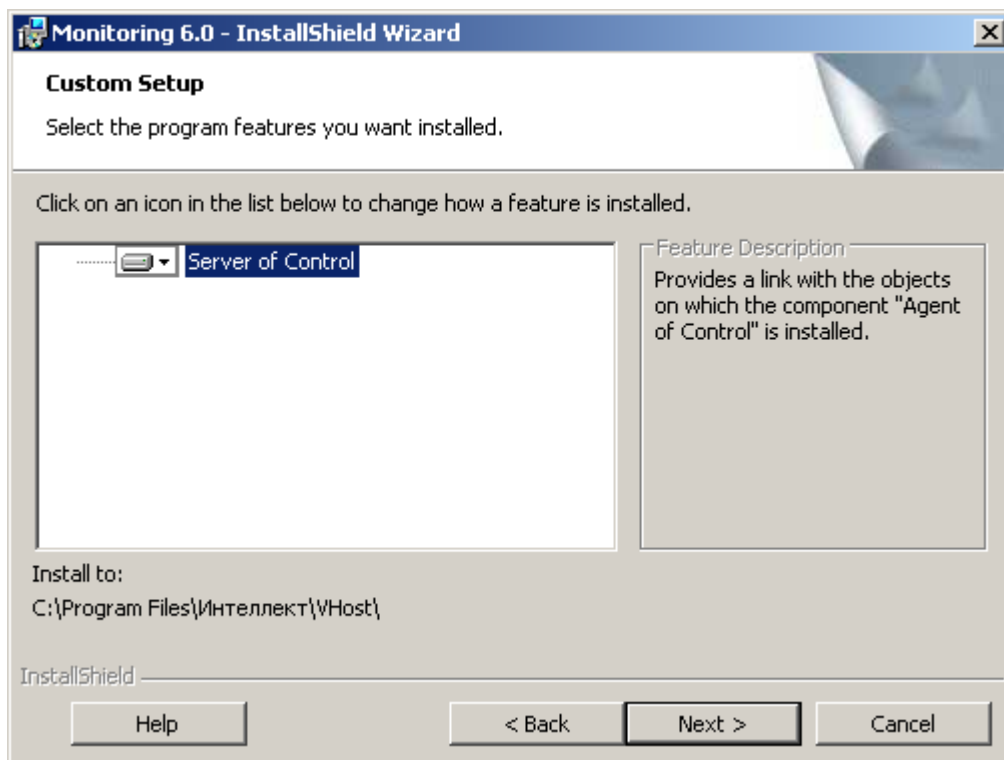


Fig. 3.3 – 4 Selecting installation components

5. A window appears, allowing you to configure the MonitorSSTV database (Fig. 3.3 – 5). In the **Name** field, enter the name that will be used to refer to the database.

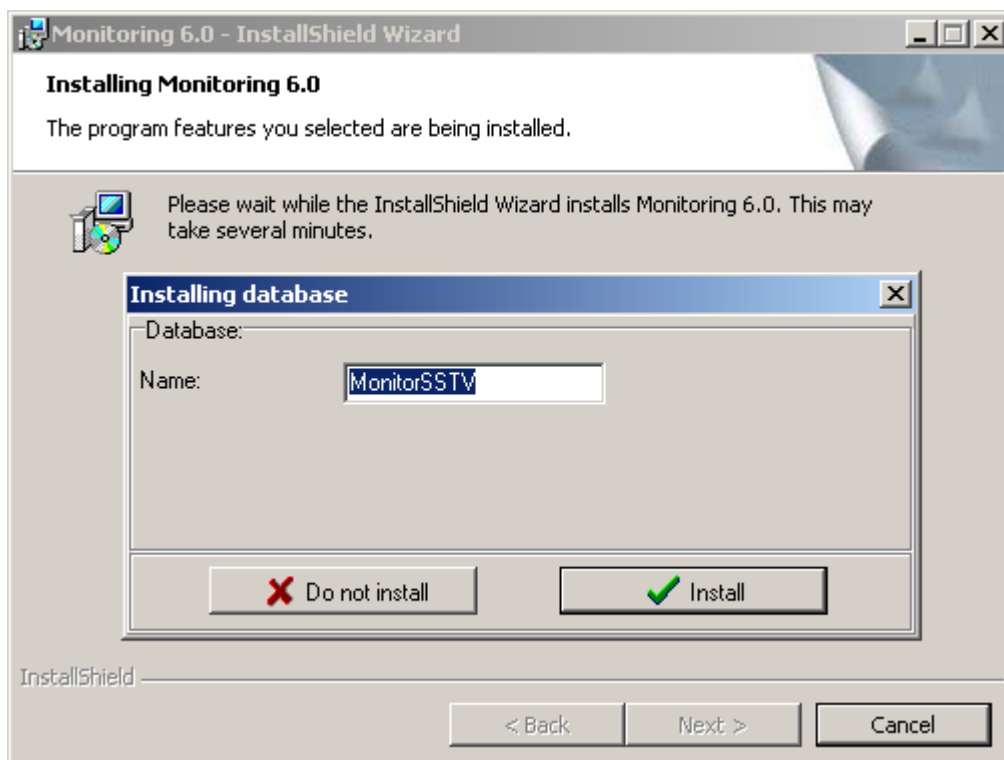


Fig. 3.3 – 5 Database configuration

Note: By default, the name of the database is "MonitorSSTV" and its files will be stored in the SQL Server folder.

6. Click the **Set** button (see Fig. 3.3 – 5).
7. In the **Data Link Properties** window (Fig. 3.3 – 6), select the name of the database server and specify connection settings. If a password is used, in the **Allow saving password** dialog box, select the check box.

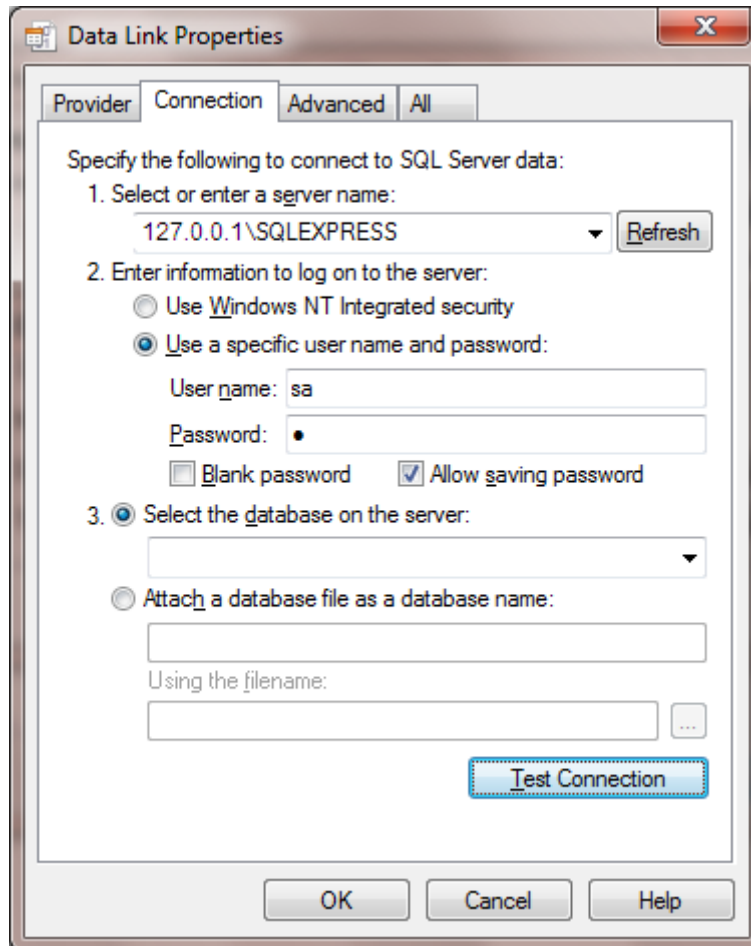


Fig. 3.3 – 6 Database connection properties

*Note. In the 1. **Select or enter a server name** field specify the "127.0.0.1" value instead of computer name or "(local)" value, e.g. "127.0.0.1\SQLEXPRESS". Otherwise Server of Control will lose connection with its local database when the network cable is disconnected.*

8. If the parameters have been indicated correctly and the database server is functional, click the **Test connection** button, after which a message appears: Connection verified (Fig. 3.3 – 7). Otherwise, an error message appears.

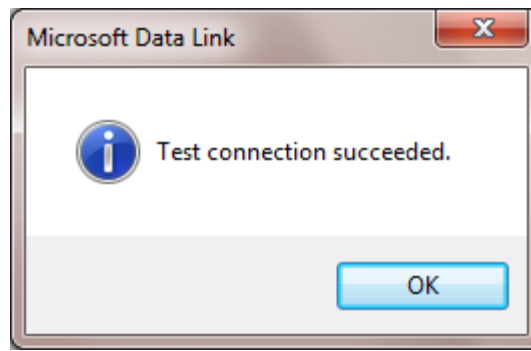


Fig. 3.3 – 7 Message about successful connection verification

Note: If the English version of MDAC components is installed on the computer, English is used in the dialog boxes in Fig. 3.3 – 6 and Fig. 3.3 – 7 as well.

9. In the **Data Link Properties** window, click **OK** (see Fig. 3.3 – 6).
10. In the dialog box that appears, click the **Set** button (Fig. 3.3 – 8).

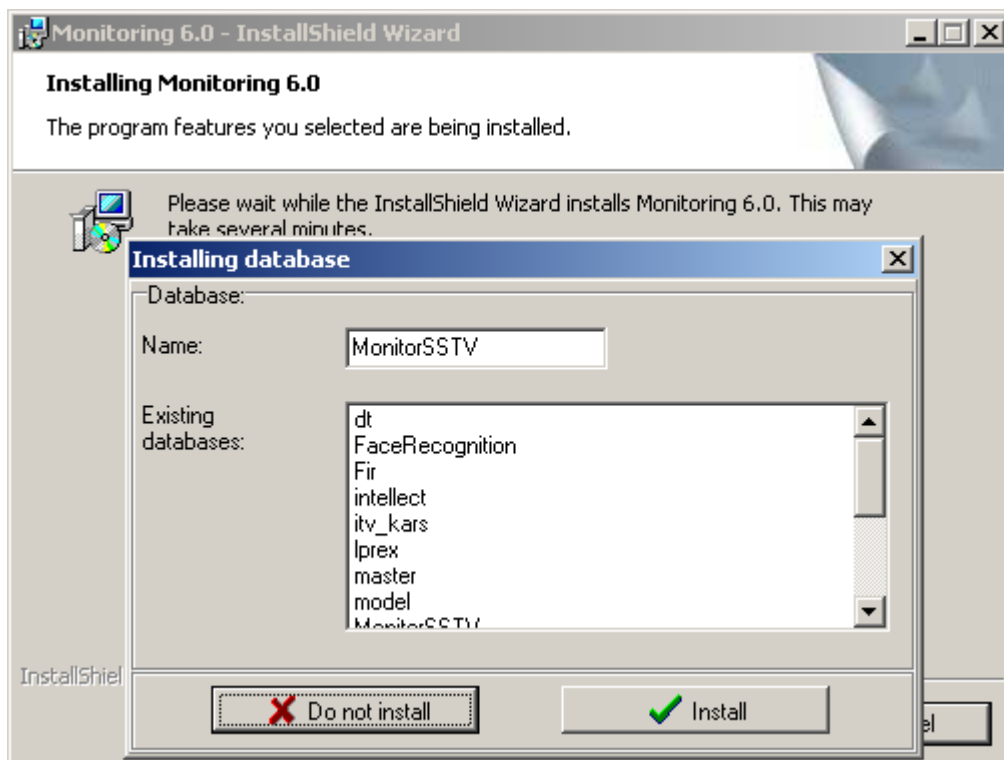


Fig. 3.3 – 8 Confirming database parameters

11. The installation process is launched (Fig. 3.3 – 9).

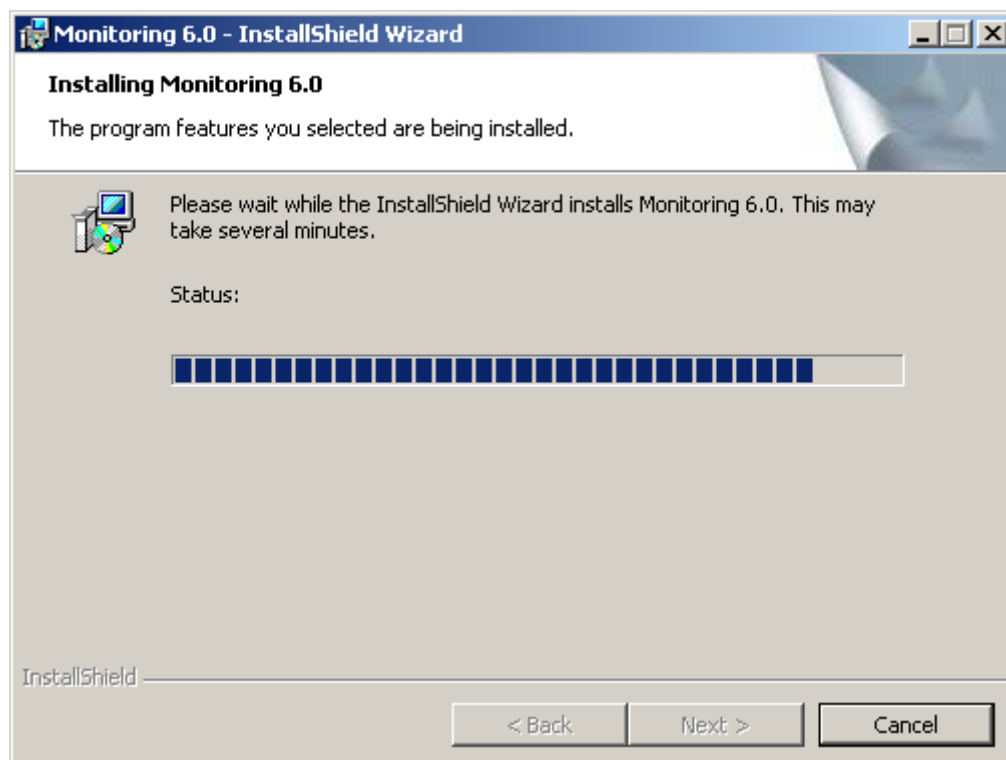


Fig. 3.3 – 9 Installation progress

12. When installation is complete, a wizard page appears with a message about successful installation (Fig. 3.3 – 10).

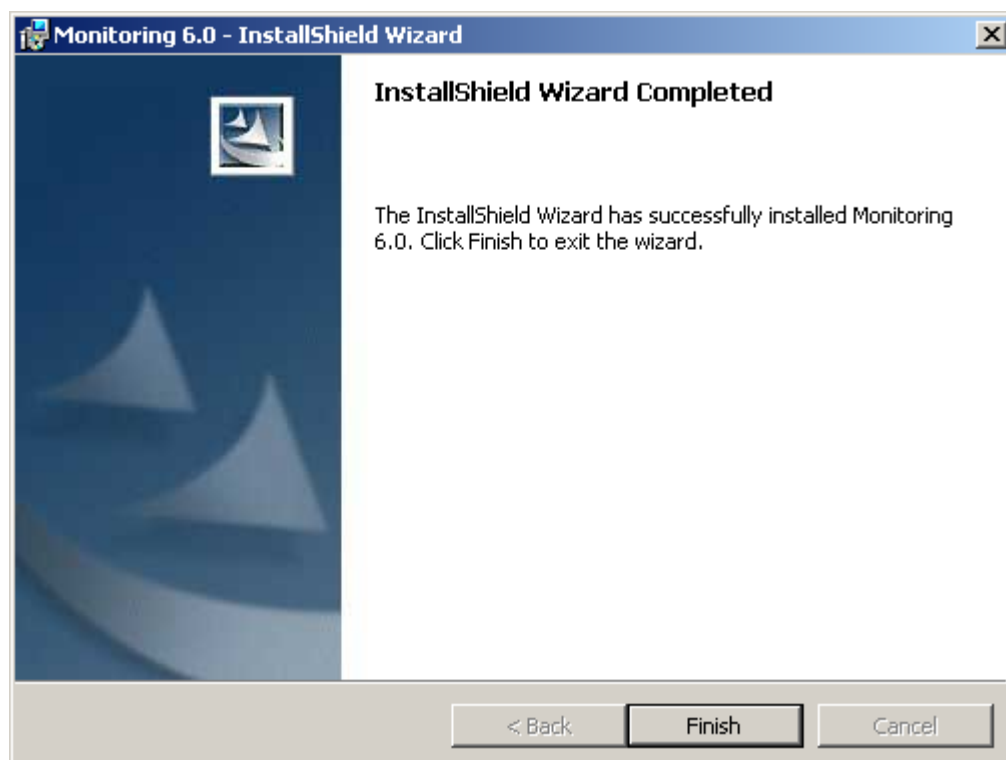


Fig. 3.3 – 10 End of installation

Installation of Monitoring is complete.

4 Configuring Monitoring

To configure Monitoring, go to the **System settings** window. Use of this window is described in *Intellect Software Package: Administrator's Guide*.

4.1 Creating a Server of Control object

Note. Server of Control, as well as Agent of Control, can operate in distributed architecture of the digital video surveillance system. In this case both Server of Control and Agent of Control shall be configured locally, not remotely.

A **Server of Control** object is created based on a **Computer** object, on the **Hardware** tab of the **System settings** window (Fig. 4.1 – 1).



Fig. 4.1 – 1 Server of Control object

After a **Server of Control** object is created in the right part of the **System settings** window, a panel appears for configuring the object (Fig. 4.1 – 2).

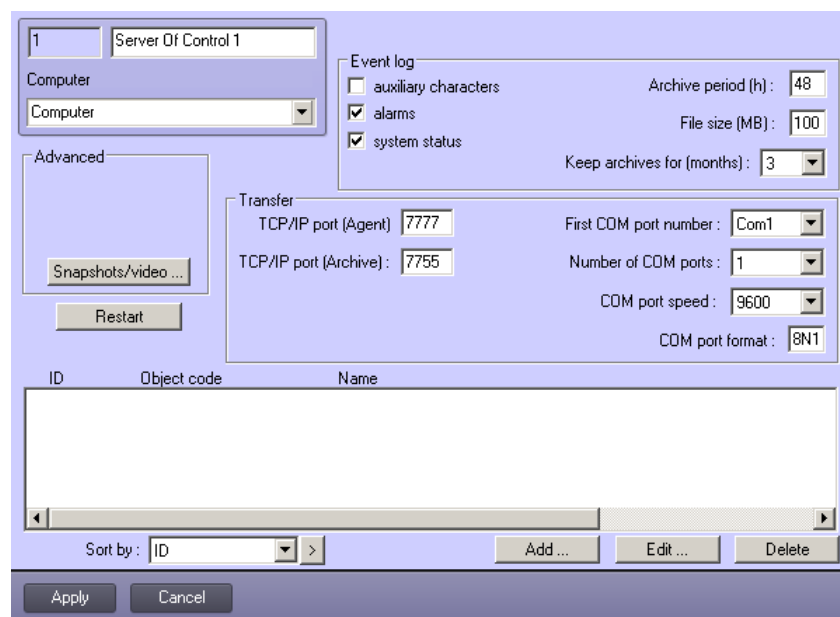


Fig. 4.1 – 2 Configuration panel for the Server of Control object

4.2 Configuring a connection

A Server of Control can simultaneously interface with objects over both the TCP/IP and RS232 protocols.

To configure a connection between Server of Control and Control Agent/Archive:

1. Go to the configuration pane for the **Server of Control** object (Fig. 4.2 – 1).

Fig. 4.2 – 1 Connection configuration

2. In the **TCP/IP port (Agent)** field, enter the port number for TCP/IP communication with remote objects (see Fig. 4.2 – 1, 1).
3. In the **TCP/IP port (Archive)** field, enter the port number for TCP/IP communication with the Archive Search module (see Fig. 4.2 – 1, 2).
4. For the RS232 protocol, indicate the following parameters: **First COM port number**, **Number of COM ports**, **COM port speed**, and **COM port format** (see Fig. 4.2 – 1, 3).
5. All objects connected to Server of Control must be specified in the settings for the **Server of Control** object (see Fig. 4.2 – 1, 4). To add an object:
 - 5.1. Click the **Add** button (see Fig. 4.2 – 1, 5). A dialog box for adding an object appears (Fig. 4.2 – 2).

Fig. 4.2 – 2 Adding an object

- 5.2. In the **ID** field, enter the object's ID. The value in this field must match the **ID** field in the Control Agent settings (see Fig. 4.2 – 2, 1).
- 5.3. In the **Object code** field, enter the object's sequence number (Fig. 4.2 – 2, 2).
- 5.4. In the **Name** field, enter the object's name (see Fig. 4.2 – 2, 3). The address of the object's location can be used as the name.

5.5. To add the object, click **OK** (see Fig. 4.2 – 2, 4).

5.6. Repeat steps 5.1 to 5.5 for all objects that you want to add.

6. Click the **Apply** button.

Connection configuration is complete.

4.3 Configuring the event log

The event log allows configuring the detail level at which Server of Control activities are logged.

The main event log is located in the <Intellect software installation folder>\VHost folder, in the file vsrvYYMMDD.log, where YY is the year, MM the month, and DD the day.

To configure the event log:

1. Go to the configuration pane for the **Server of Control** object (Fig. 4.3 – 1).

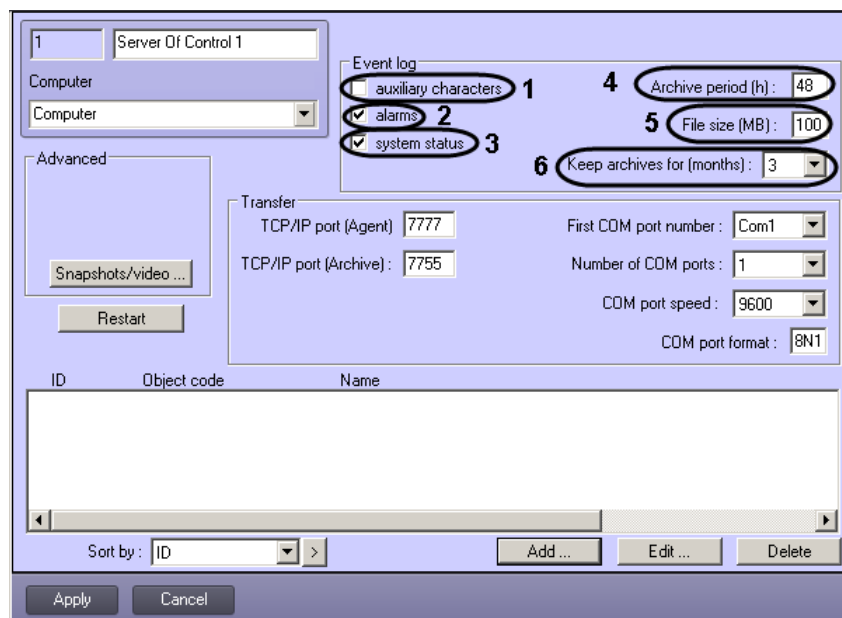


Fig. 4.3 – 1 Configuring the event log

2. To log auxiliary characters at the transport level, select the **Auxiliary characters** check box (see Fig. 4.3 – 1, 1).
3. To log alarms (activation of a vibration sensor, temperature sensor, or Door-Forced-Open (DFO) sensor), select the **Alarms** check box (see Fig. 4.3 – 1, 2).
4. To log events related to system status, select the **System status** check box (see Fig. 4.3 – 1, 3).
5. In the **Archive period (hrs.)** field, enter the frequency, in hours, at which the event log is to be archived (see Fig. 4.3 – 1, 4). Archives are saved in the DATA subfolder, with the following name format: namelog_yymmddhhmmss.gz, where

5.1. namelog is the name of the event log being archived

5.2. yy is the year of archive creation

5.3. mm is the month of archive creation

5.4. dd is the day of archive creation

5.5. hh is the hour of archive creation

5.6. mm is the minute of archive creation

5.7. ss is the second of archive creation

6. In the **File size (MB)** field, enter the file size threshold, in megabytes, upon which the event log is archived (see Fig. 4.3 – 1, 5). This setting overrides the value in the **Archive frequency** field.
7. In the **Keep archives for (months)** drop-down list, select the length of time, in months, for which you want to store archived event logs. This value must be between 1 and 24 (see Fig. 4.3 – 1, 6). Archives that are older than the specified number of months are deleted.
8. To save settings, click the **Apply** button.

4.4 Configuring reaction to snapshots and videos

Monitoring allows configuring how the application reacts after receiving still frames or video that are sent when alarm sensors are triggered.

To configure the reaction to receipt of still frames and video:

1. Go to the configuration pane for the **Server of Control** object (Fig. 4.4 – 1).

The screenshot shows a configuration window for 'Server of Control 1'. The 'Advanced' tab is active, and the 'Snapshots/video...' button is highlighted with a red circle. The window contains various settings for event logging, archiving, and data transfer. At the bottom, there is a table for object management and a set of control buttons.

Fig. 4.4 – 1 Still frame/video button

2. Click the Snapshot/**V**ideo button (see Fig. 4.4 – 1). A window opens, allowing configuration of the application response to receipt of still frames and video (Fig. 4.4 – 2)..

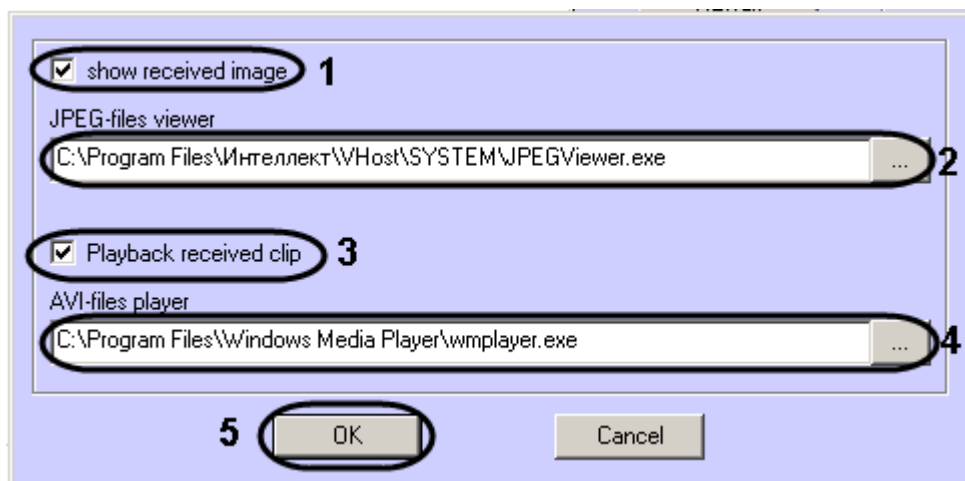


Fig. 4.4 – 2 Configuring the reaction to still frames and video

3. If you want for received still frames to be opened:
 - 3.1. Select the **Show received image** check box (see Fig. 4.4 – 2, 1).
 - 3.2. Specify the path to a program for viewing JPEG files (see Fig. 4.4 – 2, 2).
4. If you want for received video to be played back:
 - 4.1. Select the **Play back received clip** check box (see Fig. 4.4 – 2, 3).
 - 4.2. Specify the path to a program for playing back video files (see Fig. 4.4 – 2, 4).

*Note. **AVI-files player** setting is only used for compatibility with Monitoring older versions which transmitted avi-files. Newer versions transmit files in the Intellect video archive format, which are opened with the Axxon Player utility.*

5. Click **OK** (see Fig. 4.4 – 2 , 5).

Configuration of the application reaction to receipt of video or still frames is now complete.

5 Configuration of the Monitoring interface

5.1 General information about the Monitoring interface

The Monitoring interface is accessible through the following interface elements

1. **Monitoring**
2. **Search in archive**
3. **Monitoring Reports**

These objects are created based on the **Screen** object, in the **Interfaces** tab of the **System settings** dialog box. It is recommended to create these objects on the basis of different **Screen** objects (Fig. 5.1 – 1).

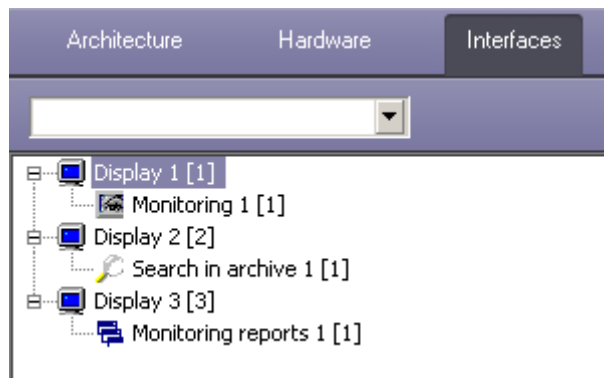


Fig. 5.1 – 1 Interface elements on the Interfaces tab

5.2 Configuring the Monitoring interface object

To configure the **Monitoring** interface object:

1. In the object tree, select the **Monitoring** object. On the right side of the **System settings** dialog box, the configuration panel for the relevant object is displayed (Fig. 5.2 – 1).

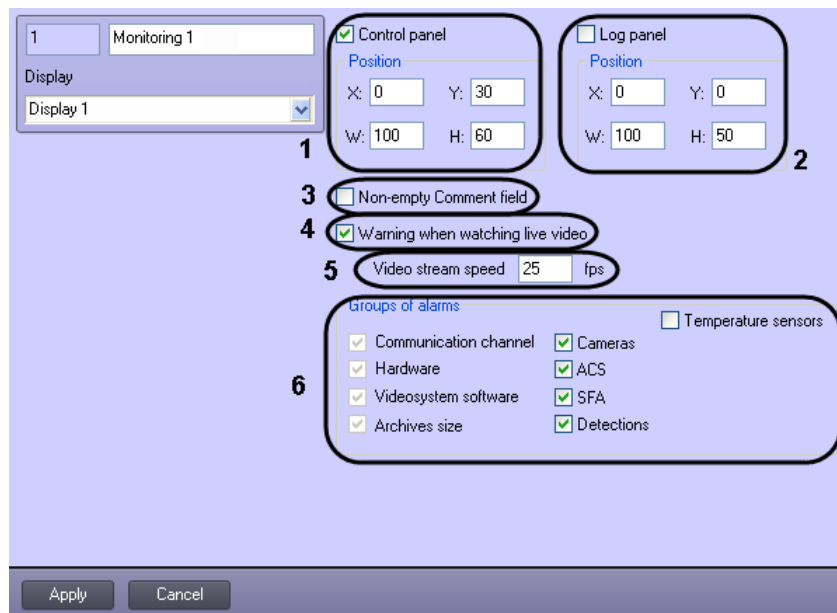


Fig. 5.2 – 1 Configuring the Monitoring interface object

2. If it is necessary to display the **Control Panel** component on the screen, select the **Control Panel** check box and indicate the on-screen coordinates of the component (see Fig. 5.2 – 1, 1).
3. If it is necessary to display the **Log Panel** component on the screen, select the **Log Panel** check box and indicate the on-screen coordinates of the component (see Fig. 5.2 – 1, 2).
4. To require that operators leave comments when accepting an alarm (to describe the alarm and/or their actions), select the **Non-empty Comments field** check box (see Fig. 5.2 – 1, 3). These comments can later be reviewed in the event log, which also indicates the operator that accepted the alarm.

5. If when live video is attempted to be viewed from Control Panel it is necessary to display a warning that it can create the critical load per channel, set the **Warning when watching live video** checkbox (see Fig. 5.2 – 1, 4).
6. In the **Video stream speed** field specify the frame rate for live video displaying in frames per second (see Fig. 5.2 – 1, 5).
7. For the alarms that you want to visualize, select the corresponding check boxes (see Fig. 5.2 – 1, 6).

Configuration of the **Monitoring** interface object is now complete.

When a screen for which the **Monitoring** object has been created is selected in Intellect, the **Monitoring** interface window is displayed (Fig. 5.2 – 2).

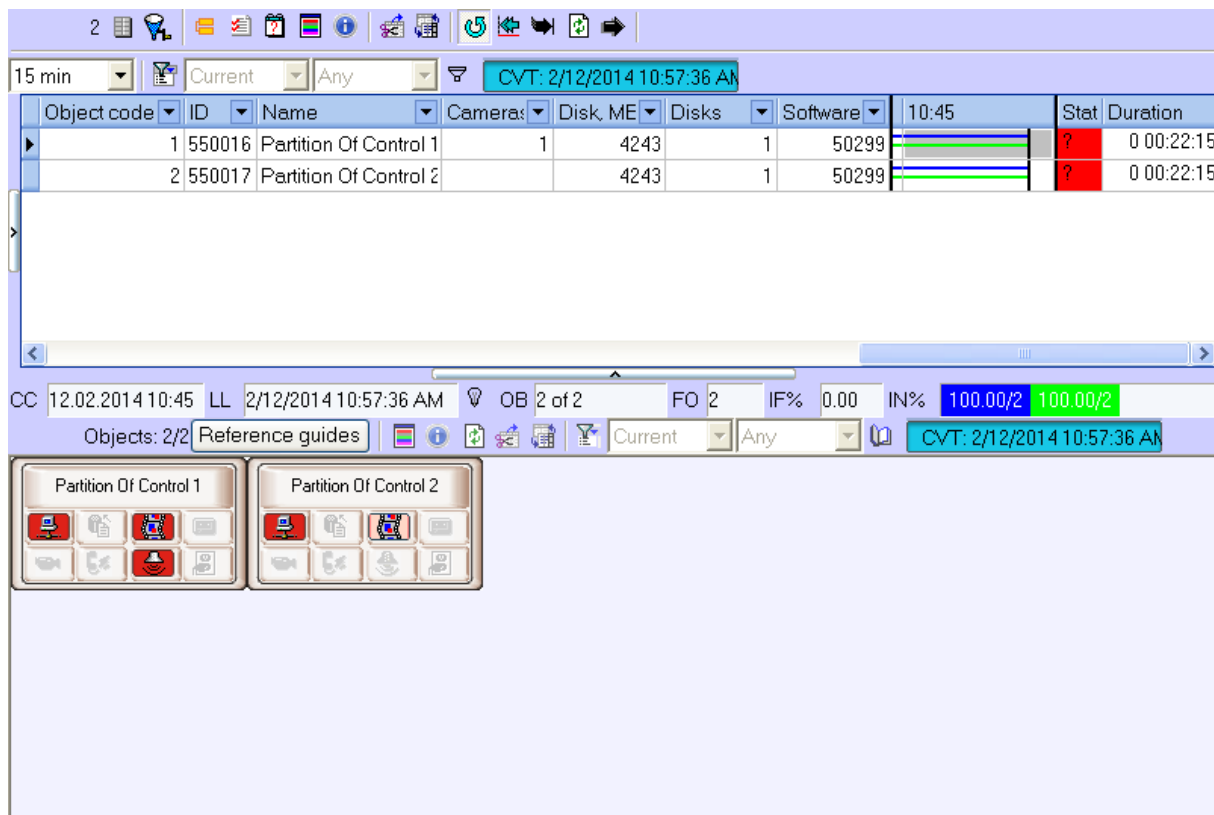


Fig. 5.2 – 2 Monitoring interface window

5.3 Configuration of the Search in archive and Monitoring Reports objects

By configuring the **Search in archive** (Fig. 5.3 – 1) and **Monitoring Reports** (Fig. 5.3 – 2) interface objects, you can indicate the coordinates at which they are displayed on the screen.

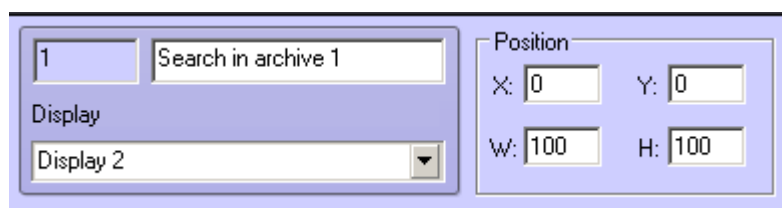


Fig. 5.3 – 1 Configuration pane for the Search in archive object

1 Monitoring reports 1

Display

Display 3

Position

X: 0 Y: 0

W: 100 H: 100

Fig. 5.3 – 2 Configuration pane for the Monitoring Reports object

When a screen used to create the **Search in archive** object is selected in Intellect, the **Search in archive** interface window is visualized (Fig. 5.3 – 3).

Search in archive Downloads

Object name

<Object not selected>

Search

Period from: 2/ 5/2014 12:00:00 AM

to: 2/ 5/2014 2:17:59 PM

☒ By captions:

☐ By video clips of all cameras

☐ By video clips of camera:

Data receive timeout (min.): 3

Search Cancel

Request

Video Frames

Settings

ID	Camera	Date and time	Text

Fig. 5.3 – 3 Search in archive interface window

When a screen used to create the **Monitoring Reports** object is selected in Intellect, the **Monitoring Reports** interface window is visualized (Fig. 5.3 – 4).

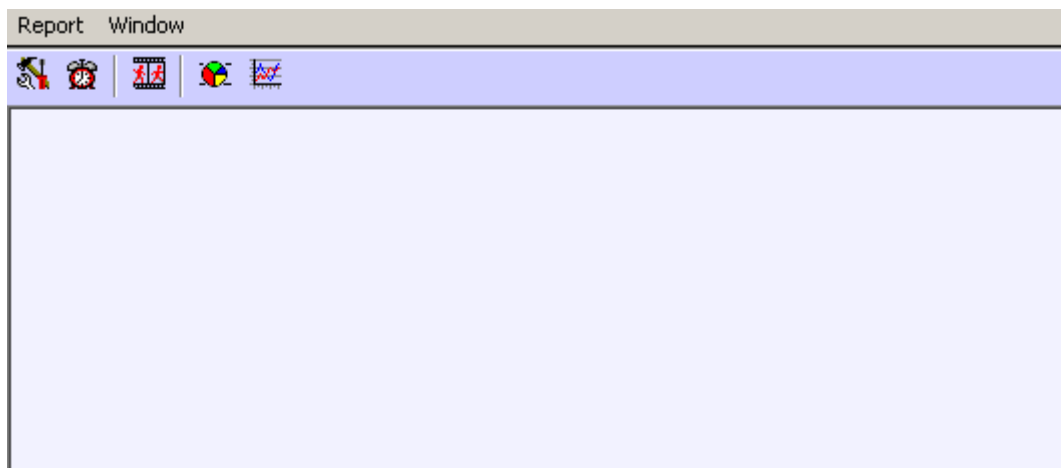


Fig. 5.3 – 4 Monitoring Reports