

Digifort Explorer Manual
Surveillance Client
Version 7.3.0.0
Rev. A

Índice

Part I Welcome to Digifort Explorer Manual	6
1 Screen Shots.....	6
2 For whom this manual is intended.....	6
3 How to use this manual.....	6
4 Prerequisites.....	6
Part II The Surveillance Client	9
1 How to execute the Surveillance Client.....	9
Configurations button	10
Recordings button	10
Virtual Keyboard	11
Event Log	11
Audit	11
Close button	12
Update Button	12
Full-screen button	12
Button Minimize to System Tray	12
Controls	13
PTZ Controls Options.....	13
Focus Button	13
Digital PTZ Button.....	13
Iris Button	13
Screen wiper.....	13
PTZ Surveillance Button	14
Audio	14
Listen	14
Speak	14
List cameras.....	16
Volume	16
Screenstyles Options	16
List of Objects	16
Camera Status.....	21
Part III Configuring the Surveillance Client	23
1 General Configurations.....	23
Remember the last selected view when opening the system	24
Remember the last selected tile when changing layouts	24
Keep objects on screen when changing layout	24
Initialize the surveillance client upon initialization of the operating system	24
Hide tool bars on startup	24
Control bars	24
Screen	25
List of objects	25
Show deactivated cameras	25
Display only the tiles of the selected style	25

Standard directory for exporting	25
2 Configuring the servers being monitored	25
Adding, changing and removing a server	27
3 Live Surveillance Configurations.....	29
4 Video Decoding via NVidia GPU.....	33
5 QuickSync.....	34
6 Video playback configurations.....	35
7 Multi-Monitor Configurations.....	36
8 Alarms.....	37
9 Digifort Keyboard Controller.....	42
10 Modifying the user password.....	44
11 Centralized registration of Surveillance Client servers.....	45
12 Disclaimer Message.....	46
 Part IV Working with Screenstyles	 49
1 How to create timer views.....	50
2 Working with panamorphic lenses.....	51
3 How to configure the image filters.....	53
 Part V Alarmes	 57
1 Message.....	58
 Part VI Video Playback	 61
1 Playing videos back.....	61
Playing audio back	70
PTZ on playback	71
2 Thumbnails.....	71
3 Playing Exported Videos Back.....	73
Image and decoder options in the exported Player	75
4 Quick video playback.....	75
5 Archived Video Playback.....	77
 Part VII PTZ	 79
1 Movement by screen controls.....	79
2 Movement by Click-and-Center.....	80
3 Movement via the Digital PTZ.....	80
 Part VIII Event Log	 83
1 Record detail.....	84
2 Filters.....	85
Filter per date	87
Filter per communication errors	87
Filter per recording errors	88

3	Reports.....	88
	Devices failure report	90
4	Audit Logs.....	93
	Detailed audit	95
Part IX Interface Web		98
1	How to access the Web Server.....	98
2	Monitoring via web access.....	99
3	Playing videos back via web access.....	101
	Index	0

Chapter



1 Welcome to Digifort Explorer Manual



This User Manual and Technical References provide all the information needed to effectively implement and use all of the basic and advanced features found in the Digifort System's Surveillance Client Explorer.

This manual is constantly updated and does not include the features for Digifort's Beta versions.

1.1 Screen Shots

The screen shots contained in this manual may not be identical to the interface that you will see using the Surveillance Client. Some differences may appear, with no impairment in use of this manual. This is due to the fact that frequent updates and the inclusion of new features are carried out with the purpose of continuous improvement of the system.

1.2 For whom this manual is intended

This manual is directed toward the administrators and operators of surveillance stations.

1.3 How to use this manual

This manual is structured into chapters, topics and sub-topics.

Important:

- If your version is not the Enterprise, some features may present limitations. To know the limitations of your version check the Feature Matrix table on the www.digifort.com site.
- The screenshots in this manual are originally taken from the Enterprise version. For this reason, some features may present differences in the screenshot from the version you are using. We are constantly updating this manual and improving its content.

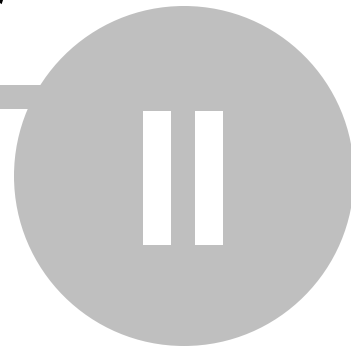
1.4 Prerequisites

For complete appreciation of the content of this manual, some prerequisites are necessary:

- Use of computers and their peripherals equipment.

- Use of the Microsoft Windows operating system.
- Knowledge of client-server architecture.
- Knowledge of computer network architecture.

Chapter



2 The Surveillance Client

The Surveillance Client is the module responsible for the surveillance of cameras and the receipt of alerts configured by the administrator.

The Digifort System allows simultaneous surveillance of several cameras at the same time by way of views, which can be dynamically created. It offers the capacity of controlling movable cameras with PTZ functions (Pan Tilt Zoom) and IO control, permitting the setting off of alarms, the opening of electronic doors and the receipt of alerts from motion sensors.

It's also possible to execute video recording in local HD, creating a copy of the images received from the selected cameras in the surveillance station, allowing for the recording of this part of video in a CD or DVD for later visualization in any other computer.

Like the Administration Client, the Surveillance Client also has the capacity to monitor several servers simultaneously. With this feature, images of various cameras can be monitored alone or mixed in a view in a way transparent to the user. Using a set of special tools, it allows for live detection of motion and automatic control of image quality.

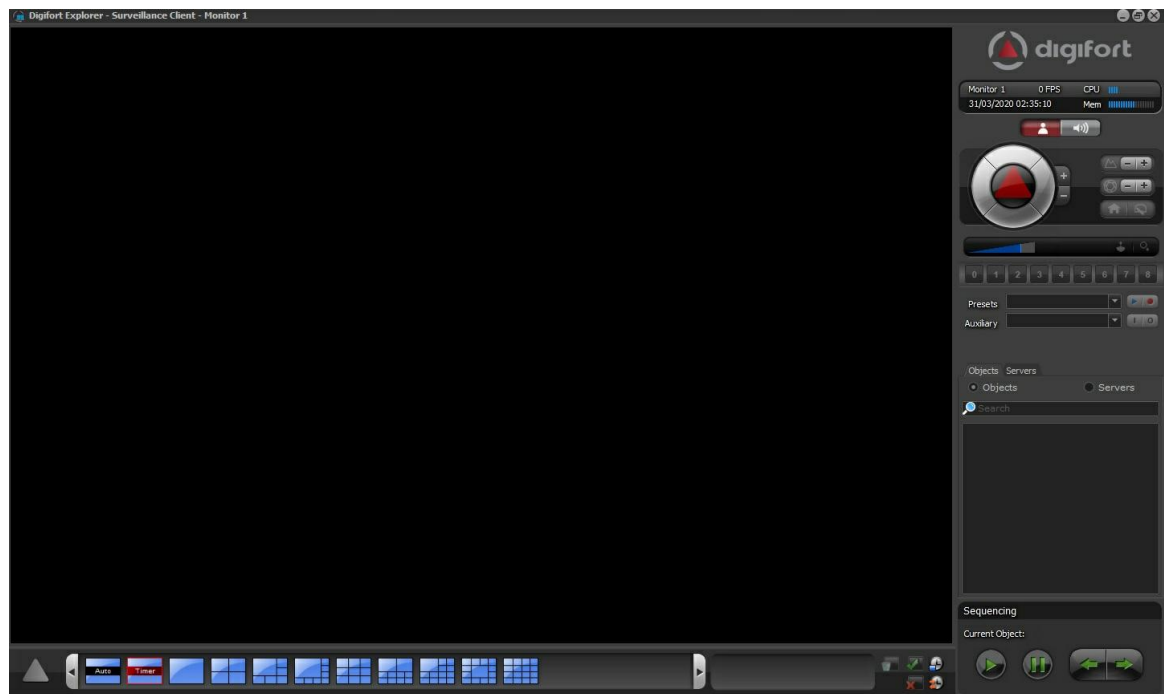
The Surveillance Client also allows interoperability among the Explorer, Standard and Enterprise versions, that is, the Surveillance Client can monitor cameras of servers of other versions.

Attention

It's not recommended to execute the Surveillance Client in the same computer as the Digifort Server, except for small installations, as the processing used by the Surveillance Client for displaying cameras in the screen could hinder the recordings carried out by the Digifort Server. This is due to the fact that the Surveillance Client needs to decode the images for displaying on the screen, and, depending on the number of cameras in the screen, this processing can be high

2.1 How to execute the Surveillance Client

To access the Surveillance Client, locate the Digifort Surveillance icon on your Desktop Digifort 7.3.0.0 Monitoramento in Start->Programs->Digifort->Clients->Surveillance.
The following should show up on the screen:



This is the Surveillance Client's main screen.

Clicking on the triangle in the bottom left corner, a menu is displayed with the following tools:

2.1.1 Configurations button



Opens the configurations screen of the Surveillance Client.

2.1.2 Recordings button



Opens the recordings screen, in which you will be able to select any camera of the system and visualize the recorded videos filtered by date and time.

2.1.3 Virtual Keyboard



Opens the Digifort virtual keyboard.



The surveillance client can use the virtual keyboard without needing a physical keyboard.

2.1.4 Event Log



Opens the Event Log Screen.

To learn about this feature see chapter [Logs de eventos](#)

83

2.1.5 Audit

It opens the Audit logs.



The audit logs screen allows you to query the audit of all connected servers simultaneously.

2.1.6 Close button



Closes the surveillance client.

2.1.7 Update Button



Updates the Surveillance Client configurations.

Whenever changes are made to the user configuration in the Administration Client, this button must be pressed to ensure the command is effected. All other configurations made to the Administration Client are automatically updated in the Surveillance Client.

2.1.8 Full-screen button



Expands the space reserved for visualization of the camera by filling the entire screen. To return to the normal mode, press the ESC key on your keyboard.

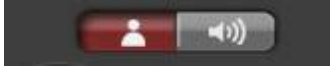
2.1.9 Button Minimize to System Tray



Minimizes the system in the same bar where you can find the Windows clock

2.1.10 Controls

To enter on **Controls** mode, click as shown below:



2.1.10.1 PTZ Controls Options

The Surveillance Client has the basic PTZ controls in its main screen, as shown in picture below.



The functioning of PTZ controls will be detailed in the [PTZ](#) ⁷⁹ section.

2.1.10.2 Focus Button



Zooms in or out if the camera includes this function.

2.1.10.3 Digital PTZ Button



Activates or deactivates the Virtual PTZ in Dome cameras

2.1.10.4 Iris Button



Increases or decreases the camera's iris opening, if this exists.

2.1.10.5 Screen wiper



Activates the camera's screen wiper, if this exists.

2.1.10.6 PTZ Surveillance Button



Pauses or begins PTZ surveillance. To learn how to create PTZ surveillance, refer to the Administration Client manual.

2.1.11 Audio

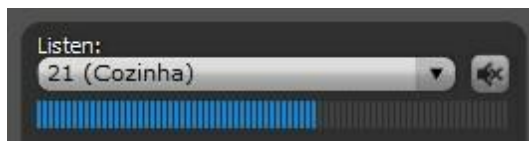
To enter in audio mode, click the button as shown below:



Digifort has the functionality to listen to audio from a camera and send an audio to your speakers.

2.1.11.1 Listen

You can listen to a camera by simply selecting it in the box as shown in the picture below or by clicking on its image in the mosaic.



- **Mute button:** Mutes the audio from the camera
- **Volume bar:** Shows the audio volume in real time

2.1.11.2 Speak

Some cameras allow audio to be sent to your speakers, ie the operator can talk through the camera.



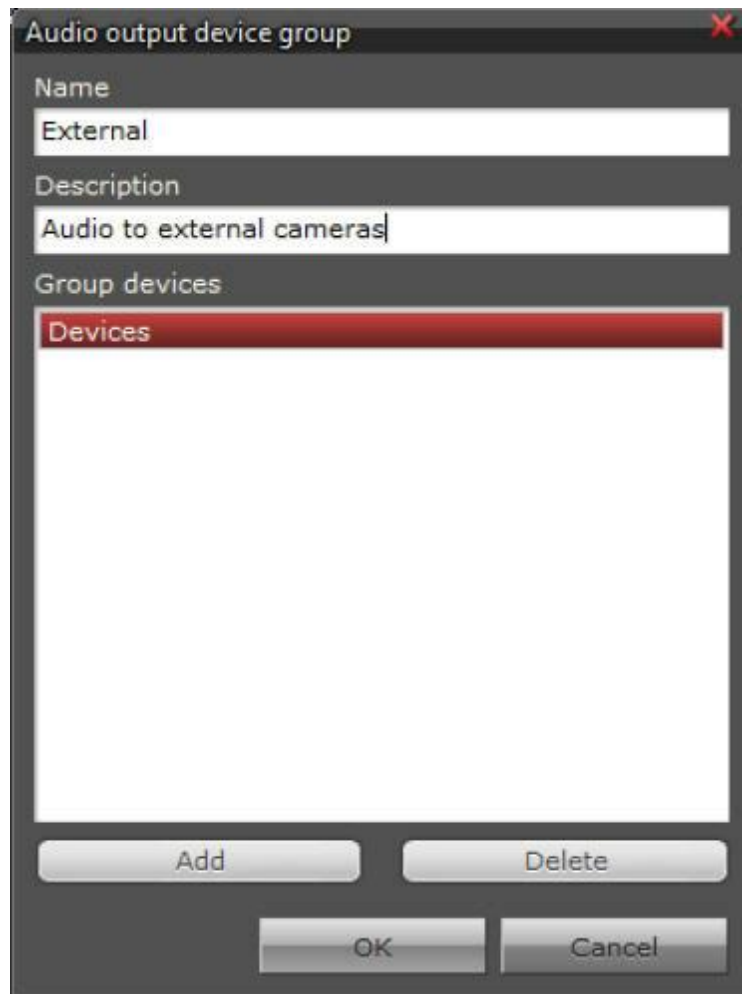
To speak, simply select the camera in the box and click on the button below:



NOTE: To speak, the operator must maintain the above button pressed.

It is possible to speak to multiple cameras simultaneously, ie sectorize the audio areas. To create a group of cameras to send the audio, simply click on the + sign and the following window

will open:



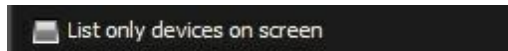
The screenshot shows a dialog box titled "Audio output device group". It has a dark gray header bar with a red "X" close button in the top right corner. The dialog contains three text input fields: "Name" with the text "External", "Description" with the text "Audio to external cameras", and "Group devices" with the text "Devices". Below the input fields are four buttons: "Add", "Delete", "OK", and "Cancel". The "Add" and "Delete" buttons are positioned side-by-side, and the "OK" and "Cancel" buttons are positioned side-by-side below them.

- **Name:** Name of camera group
- **Description:** Description of the group created
- **Devices:** Click on **Add** to enter the cameras in the group

To change a group you created, select it and click on the button: -

To delete a group you created, select it and click on the button: +

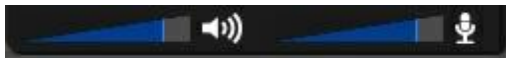
2.1.11.3 List cameras



- **List only the cameras on screen:** Select for the selection boxes to only show the cameras that are in the current mosaics, otherwise, all cameras will be available.

2.1.11.4 Volume

Adjust the volume of your speaker and microphone by dragging the blue bars shown in the image below:



2.1.12 Screenstyles Options

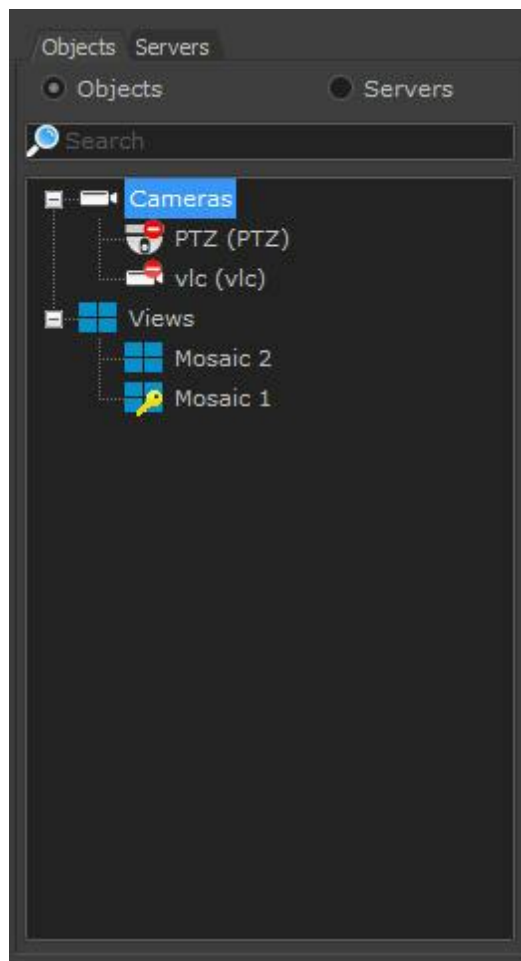
The Surveillance Client has eight Screenstyles, which are located in the lower part of the system, as shown in picture below.



The functioning of the Screenstyles will be detailed in the [Working with Screenstyles](#)⁴⁹.

2.1.13 List of Objects

The list of objects includes all Digifort's visual functionalities as shown in the picture below:



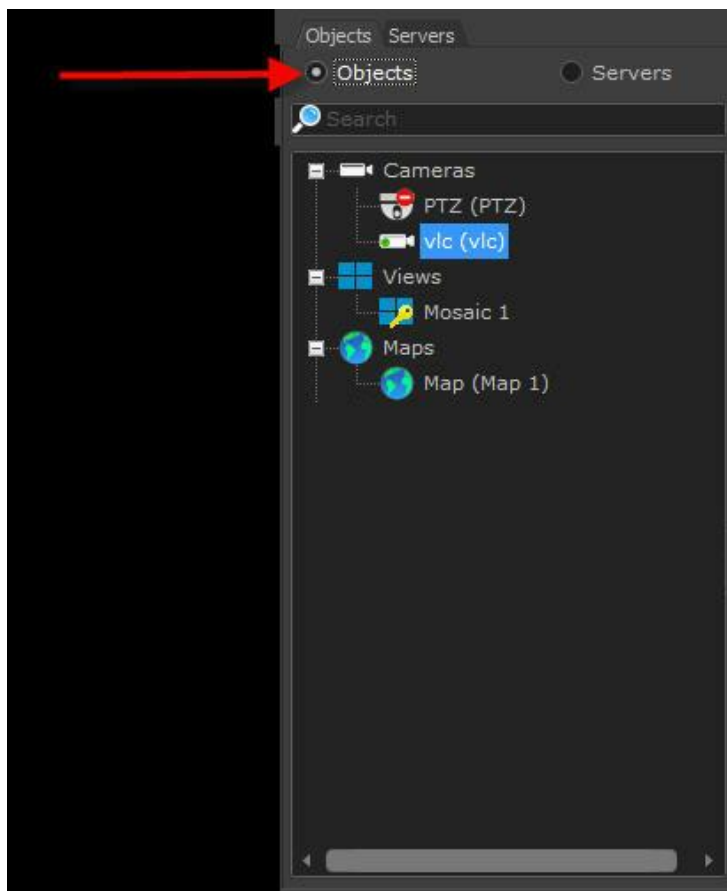
The picture above shows all the objects found in Digifort:

- **Cameras:** Shows all the cameras registered in the Administration Client. To see the view of the camera click on its icon and drag towards a screen style.
- **Screen styles (Views):** Shows all the screen styles saved in the Surveillance Client per category. Example: Only screen styles with 4 cameras, 6 cameras, etc). To see the screen style double click on its icon.
- **Maps:** Shows all the maps registered in the Administration Client. To see the map click on its icon and drag it to a screen style.
- **Analytics Records:** Shows all the analytic records registered in the Administration Client. To see the analytic records click on the icon and drag it to a screen style.
- **LPR (License Plate recognition):** Shows the objects for plate recognition registered in the Administration Client. To see the LPR click on its icon and drag it to a screen style.

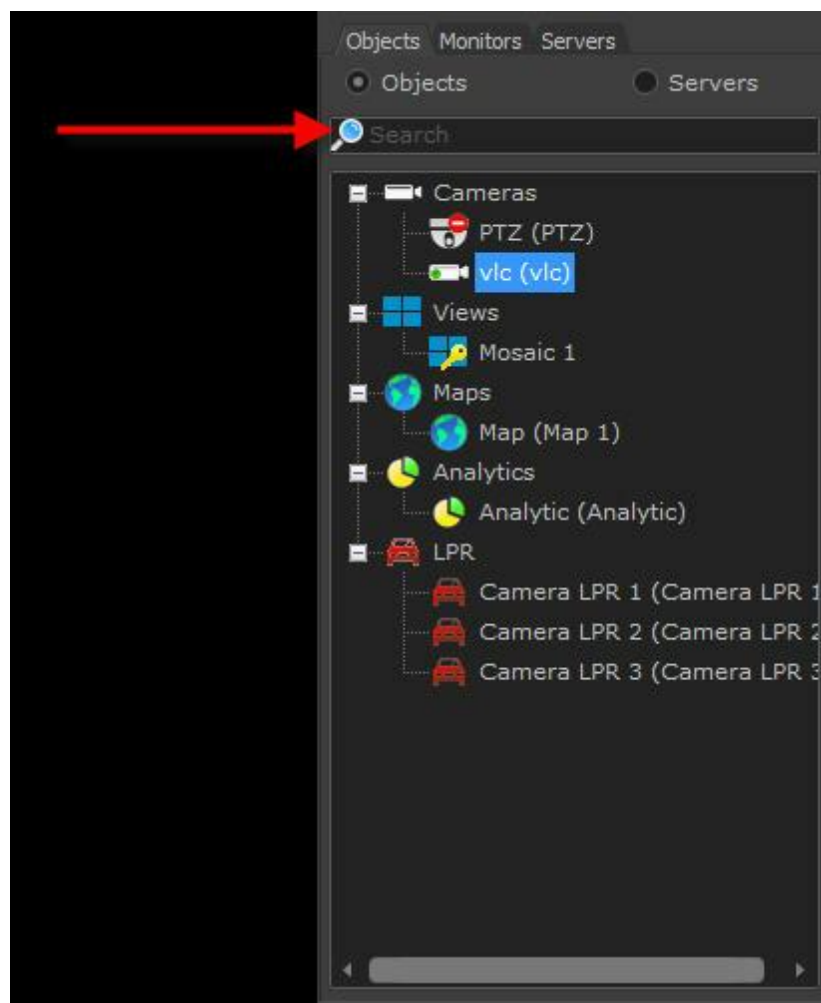
Nota

The objects appear according to each user's rights. To understand how to configure the user right, refer to the Administration Client manual.

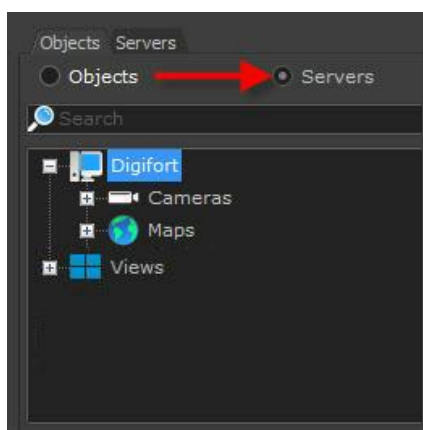
After registering the servers (see [Configuring the server to be monitored](#)^[25]), if the surveillance client is updated, the objects registered on the server can be seen on the list at the side as shown below:



In the list of objects you can use a search to quickly find a specific object. To use the filter just enter in the field indicated in the figure below:

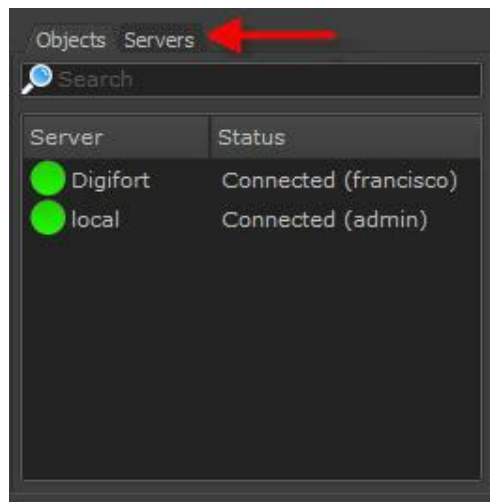


Another view option is to click on Servers and from here you can separate the objects into their respective servers as shown below:

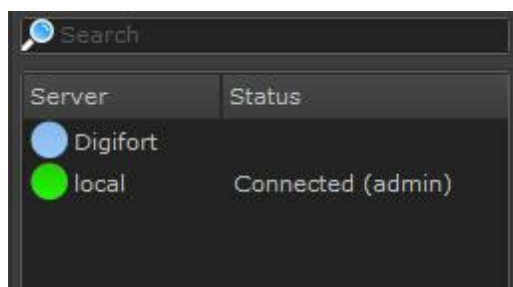


To check status, connect or disconnect the registered servers, click on the Servers option as shown

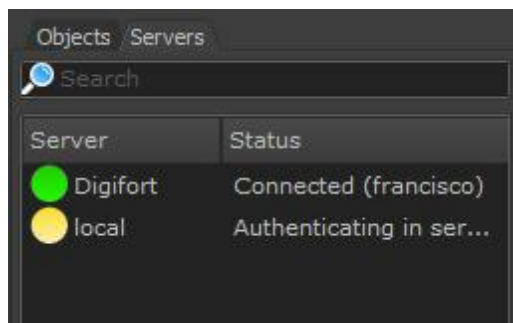
below:



To disconnect a server, simply double-click on it. In the picture below, the 'Digifort' server has been disconnected..



If there is a problem with the server connection, an error message is shown on the Status column. The picture below shows an error in the 'Digifort' server where the system's versions are incompatible.



2.1.13.1 Camera Status



This icon means that the camera in question is a Dome camera, i.e. it includes the Pan or Tilt features.



This icon means that the camera in question is a Dome camera, i.e. it includes the Pan or Tilt features.



These icons mean that the camera in question is deactivated at the Administration Client.



These icons mean that the camera in question is activated but is not recording



These icons mean that the camera in question is activated and recording.



These icons mean that the camera in question is activated, recording and detecting movement. The detection of movement is only indicated if the camera is recording by movement or has some sort of alarm configured for movement. (To learn about movement detection, refer to the Administration Client manual).



These icons mean that the camera in question is out of order.

Chapter



3 Configuring the Surveillance Client

This area of the system allows you to configure and customize the Surveillance Client. It's necessary to specify the servers that will be monitored and the parameters of the Surveillance Client environment.

To access the configurations area, click on the Configurations button located on the tool bar on the right side of the system.

If you add, modify, or exclude any server in the configuration of the client, then you must click on the Update button so that the Surveillance Client reconnects to the servers using the desired configurations. Any other modification of the configurations will be applied when a new view or camera is selected in the screen.

3.1 General Configurations

By clicking the Settings button, as explained above, the following screen will be displayed:

The screenshot shows the 'General' configuration window. It contains several sections: 'General' with checkboxes for remembering views, automatic startup, and toolbar visibility; 'Controls bar' and 'Screen' with radio button options for layout and windowing; 'Objects list' with options for object descriptions and view filtering; 'Local recording' with a text field for the directory and a warning icon; and 'Default export directory' with a text field for the default export path. At the bottom are 'OK' and 'Cancel' buttons.

General

- ☒ Remember the last selected view on system startup
- ☒ Remember the last selected view when changing layouts
- ☐ Automatically open Surveillance Client during Operating System startup
- ☐ Hide toolbar on startup

Controls bar

- ☐ Left
- ☒ Right

Screen

- ☒ Windowed
- ☐ Full screen

Objects list

Object description

- ☒ Name and Description
- ☐ Name only
- ☐ Description only

- ☐ Show deactivated objects
- ☒ Show views from selected screenstyle only

Local recording

You must select a directory for local recording. This feature allows the local recording of live images.

C:\Program Files (x86)\Digifort\Digifort Enterprise 6.6\

Default export directory

Choose a directory to be used as default for media exporting and screenshots

C:\Program Files (x86)\Digifort\Digifort Enterprise 6.6\Export\

OK Cancel

This is the General Settings screen of the Surveillance Client; it gives you the following options:


3.1.1 Remember the last selected view when opening the system

When you select a view or a camera, the system automatically keeps your reference so that when the Surveillance Client is reopened, the same camera or view reappears automatically in the screen. If this option is not marked, no camera or view will be loaded automatically for exhibition when the Surveillance Client is opened.

3.1.2 Remember the last selected tile when changing layouts

The Surveillance Client now provides the option to load or not load the last selected tile to switch between screen styles (Layouts). The default option is to always load the latest tile selected, thus maintaining compatibility with the behavior of previous versions..

3.1.3 Keep objects on screen when changing layout

By default, when you select a new layout the system will clear the screen so that the new layout is displayed empty (unless the option ["Remember the last tile when switching layouts"](#)  is selected). However, with this option selected, the system will keep the camera, or cameras, that are already on screen and populate the next layout, thus allowing the user to "open more space" for creating mosaics. If the selected layout has fewer spaces than the number of cameras on screen, the system will remove the excess cameras.

3.1.4 Initialize the surveillance client upon initialization of the operating system

It initializes the surveillance client when the operating system starts by automating the cameras' monitoring process.

3.1.5 Hide tool bars on startup

Hide the control bars when system is started

3.1.6 Control bars

This option allows for the positioning of the side bar on the left or right of the monitor.

- Left: Positions the bar on the left of the screen.
- Right: Positions the bar on the right of the screen.

3.1.7 Screen

This option allows Digifort to be have windows like those of Windows or in fullscreen.

- **Windowed:** Digifort behaves like a Windows window with the minimization, maximization and resizing options.
- **Full screen:** Digifort will occupy the entire screen.

3.1.8 List of objects

You can choose how the identification of objects will appear in the list of objects in the [Object List](#) ¹⁶ monitoring client

- **Name and Description:** Displays the name and description of the camera.
- **Name only:** Displays only the name of the camera in the list.
- **Description only:** Displays in the list only the camera description

3.1.9 Show deactivated cameras

The deactivated cameras are shown in the list of objects.

3.1.10 Display only the tiles of the selected style

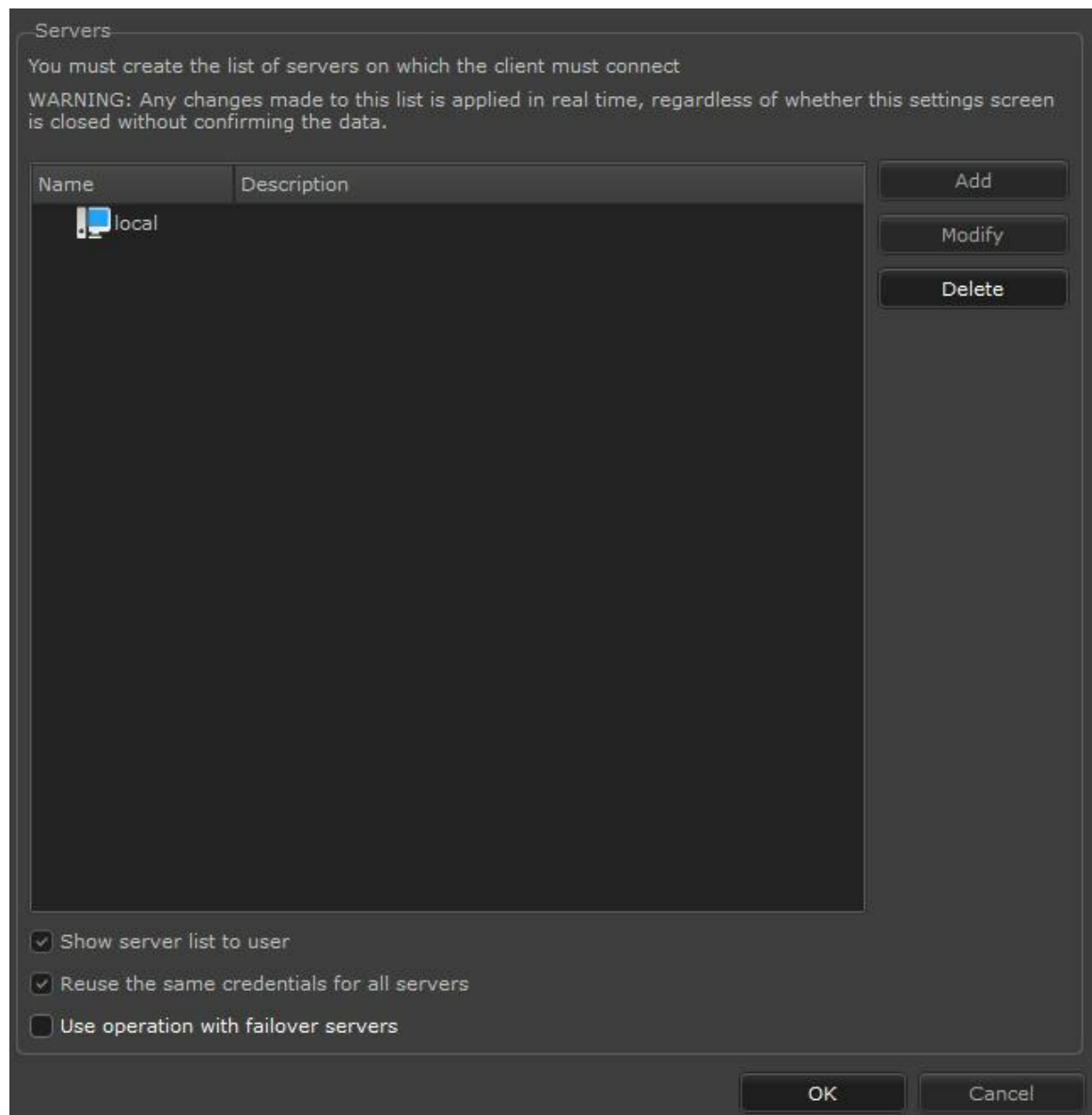
By default the system will display only the tiles of the selected layout, but when disabling the "**Only show the selected layout tiles**", all tiles are displayed in the object list, and when selecting a tile of a different layout, the system will automatically change the layout.

3.1.11 Standard directory for exporting

Sets a default directory for saving screen photos and exported videos. In addition, in this section there is the option to put a name, date and time on the exported images.

3.2 Configuring the servers being monitored

To configure the servers to be monitored by the Surveillance Client, click on the Settings button, as previously explained, and then click on the Servers tab to prompt the following screen to be displayed:



This is the server configuration screen. On this screen, it is possible to configure which servers the Surveillance Client will monitor.

Keeping in mind that the Digifort System architecture is client-server, as many servers as desired can be added, from either your local network or the Internet. This way, the Surveillance Client will monitor all of them simultaneously, as if it were a single server.

- **Display server list to the user:** Enables or disables the connections tab according to the servers available on the Surveillance Client main screen.
- **Reuse the same login for all servers:** Uses the login informed by the user on all registered servers. This option is intended to facilitate the login on multiple servers.
- **Use operation with Failover servers:** This option allows the cameras in the mosaic to be automatically replaced by the cameras from the failover server when Digifort is used with

failover servers.

- **Do not display alert messages from servers:** This option disables alert messages (such as licensing or database) that appear when logging on to servers, being particularly useful in applications where the monitoring client is being displayed on a video wall, without an operator controlling.
- **Ping Interval:** This value is used to verify that the server is still available and functioning, if the server does not respond to the Client's ping message, then the connection will be terminated and restarted. In case of using Failover servers, use smaller values for the client to identify more quickly in case the main server becomes unavailable, so the change to the Failover server will occur more quickly.

Note

When adding, changing or removing a server, the Surveillance Client must be updated by clicking on the Update button on the main screen.

3.2.1 Adding, changing and removing a server

To add a server, click on the Add button; to change a server select the server wanted from the list of servers and click on the Change button, or, if you prefer, double-click on the server selected. To remove a server, select it and click on Remove.

The figure below shows the screen where you can add or change servers.

The screenshot shows a 'Server Registration' dialog box with the following fields and options:

- Server Name:** A text input field.
- Server Address:** A text input field.
- Port:** A spinner box set to 8600.
- Use SSL:** An unchecked checkbox.
- Description:** A large text area.
- Auto Login:** An unchecked checkbox.
- User:** A text input field (disabled).
- Password:** A text input field (disabled).
- Connection Method:** A dropdown menu set to 'Internal connection'.
- Preferred method of receiving media:** A dropdown menu set to 'Unicast'.
- Servers:** A list box containing one entry: a computer icon followed by '192.168.0.105:8600'.
- Auto Connect:** A checked checkbox.
- Buttons:** 'OK' and 'Cancel' buttons at the bottom right.

- **Server name:** Give the server an identification name. Once saved, this name cannot be changed as it will be used to identify the server in the Surveillance Client.
- **Server IP:** Fill in this field with the server's IP address. A DNS address can also be used.
- **Port:** Type the connection port with the server; the standard port is 8600.
- **Description:** Type a short description for the server only used to help it being identified in the system by the operator.
- **Auto Login:** This option enables the user and password fields to be filled in. By enabling this option, whenever the Surveillance Client is executed or updated it will use the username and password provided to make the authentication in the server. If this option is unchecked, the user must type his username and password to enter the login screen which appears when the client connects to the server.

- **Connecting:** Select Internal Connection if the server is on your local network or External Connection if it is on the Internet. The Internal Connection option uses the Private IP configurations, and the External Connection uses the Public IP configurations. Those configurations are carried out in the Administration Client for each camera.
- **Method to receive media:** In this option, it's best to choose the Onicast or Multicast method to send video to the client. To find out more about the Multicast sending method refer to the monitoring client manual
- **Active:** Uncheck this option if you don't want the Surveillance Client to connect with this server. By unchecking this option no camera on this server will be available for viewing.
- **Servers:** Shows all the Digifort servers found on the network. Double-click on one of the servers on the list and the Server IP and Port will be automatically filled in.
- **Automatic Connection:** Enables the Surveillance Client to automatically connect to the server when starting or updating.

Once the parameters have been filled in, click on OK to save the server or click on Cancel to cancel your editing..

Important

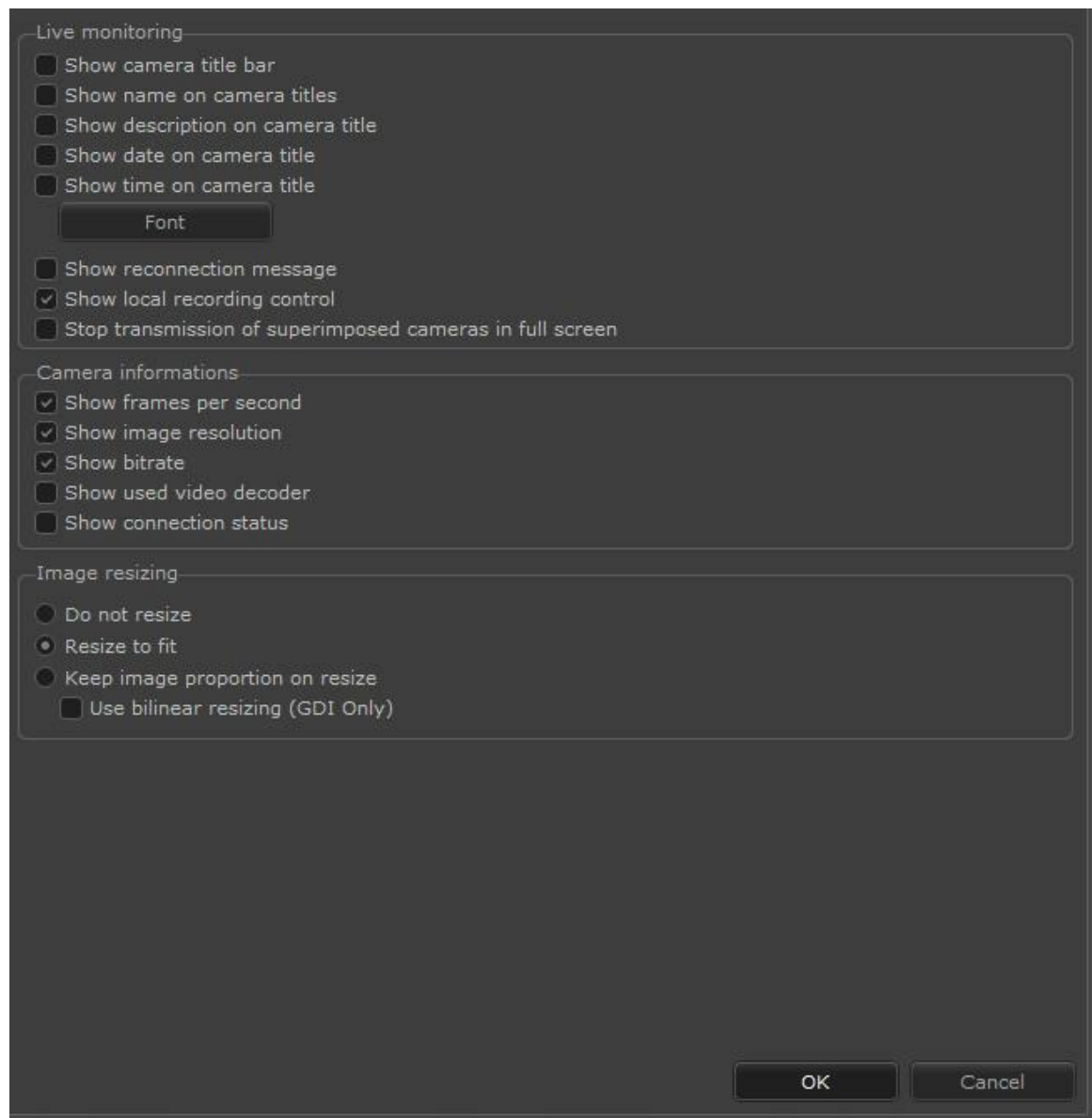
If the user password informed in the auto-login fields is modified by the administrator in the Administration Client or modified by the user himself by way of the password modification module, the values informed here must be updated.

Dica

If the Digifort Server is executing in the same computer as the Surveillance Client, the Loopback IP identified by 127.0.0.1 can be used.

3.3 Live Surveillance Configurations

After clicking on the Configurations button, as explained before, and on the Live Surveillance tab, the following tab will be displayed:



This configuration is divided into three parts: live surveillance configuration, camera information, and configuration of image resizing.

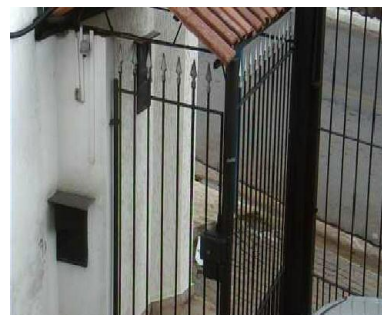
- **Show cameras title bars:** It shows a black bar where the camera information will be positioned at the top of the image.
- **Show name on camera titles:** Display the camera name at the top of the image.
- **Show description on camera title:** Display the description of the camera at the top of the image.
- **Show description on camera title:** Displays the description of the camera at the top of the image.
- **Show date on camera titles:** Display the current date at the top of the image.

- **Show time on camera titles:** Display the current time at the top of the image
- **Fonts:** Option to change the font with which the descriptions of cameras will be displayed.

With all previous options active



With no previous option active



- **Display reconnection message:** When the communication with the camera fails for any reason and this option is enabled, the Surveillance Client will show a message of reconnection. The picture below shows the working of this feature:



- **Display recording controls:** Displays the recording controls, allowing the operator to record the desired camera images in the surveillance station itself for later visualization. To learn how to use this feature, see Executing Local Recording.
- **Stop the transmission of overlapping cameras in full screen:** The cameras can be overlapped when the user selects a full-screen camera (by double clicking). In this case, all the cameras that are below (not being displayed) continue to transmit and decode, but when enabling this new option, the stream of these overlapping cameras will be disabled, saving bandwidth and CPU resources.
- **Display frames per second rate:** Displays the frames per second rate in the image of the camera.
- **Display transfer rate:** Displays the band width used by the camera in the image of the

camera.

- **Display video decoder used:** Displays the decoder used for image decoding of the camera.
- **Don't resize the images:** The images arriving from the cameras will be shown in their real size. If the image resolution is smaller than the space reserved for it, the image will be small, and if the image is larger than the space reserved for it, some of its parts will be lost. The picture below shows the working of this feature.



- **Resize to fit :** The images arriving from the cameras will be resized so that they occupy all of the space reserved for them. The picture below shows the working of this function.



- **Resize maintaining image proportion:** Resizes the images coming from the cameras in such a way as to resize height and width proportionally.

- **Use bilinear resizing:** When the camera images are resized to a larger-than-natural size, some distortions can occur. With this feature enabled, the images will undergo a filter to minimize this distortion, keeping the image quality as close as possible to the real image.

Important

When bilinear resizing is activated, more processing power is required from the surveillance station, since the correction of image distortion is executed using complex algorithms.

3.4 Video Decoding via NVidia GPU

For higher system performance, it is now possible to use video decoding acceleration through NVidia cards.

Video decoding via the NVidia GPU will dramatically reduce the monitoring station's CPU usage, allowing a greater number of cameras decoding in parallel.

We recommend using at least 1 video card of the Pascal architecture (at least one GTX 1060).

For more information on NVidia video card compatibility, visit this link:

<https://developer.nvidia.com/video-encode-decode-gpu-support-matrix#Decoder>

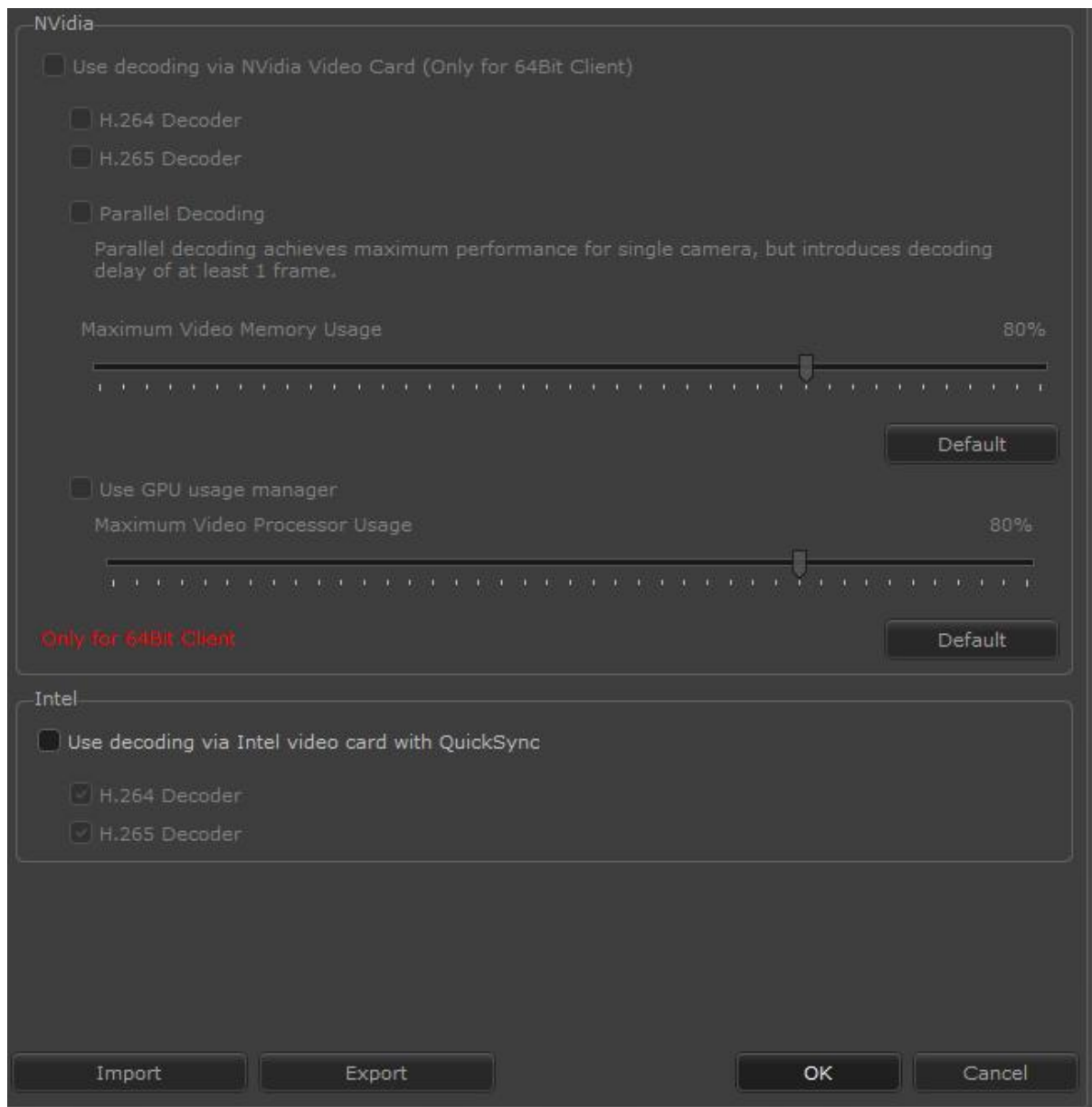
Decoding via the NVidia GPU is only available in the 64-bit Surveillance Client (Surveillance64.exe) and requires the installation of NVidia official drivers: <https://www.nvidia.com/Download/index.aspx?lang=en-us>

It is possible to use 2 or more video cards for decoding, and the system will balance the decoding load between the available NVidia video cards.

The system further implements a video card resource monitor, which will constantly assess GPU usage and GPU memory usage. If GPU or memory usage is above the set limit, the system will start offloading, and decoding via CPU (software) will be used.

Currently, the video decoding option via the NVidia GPU is only available in the Surveillance Client and in the export Native Player, and it is not available for use on the server.

Each camera instance being decoded (regardless of the resolution used) will use approximately 200~250MB of GPU memory.

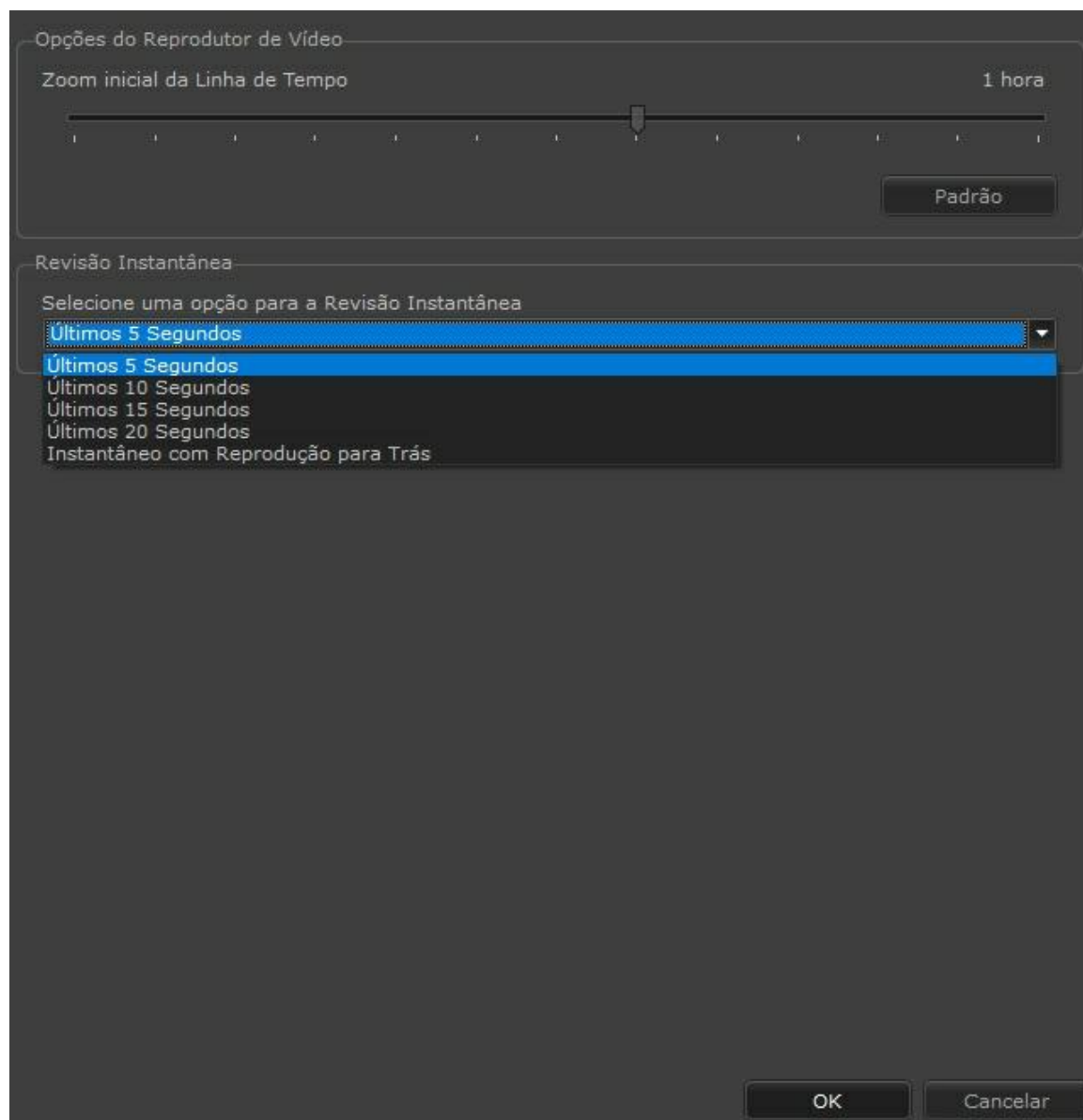


3.5 QuickSync

Added support for video decoding (H.264 and H.265) via QuickSync through video cards of Intel processors. QuickSync is an Intel technology that allows video decoding through the graphic processor built into its processors. To use QuickSync, the computer must support the use of the built-in video card (Intel HD Graphics) and it must be enabled in the operational system. The use of QuickSync is recommended to view images of 5 megapixels or higher, wherein gains from hardware decoding are more noticeable. It is also recommended the use of the 64-bit Surveillance Client, as memory usage is higher. Support to QuickSync was added to the Surveillance Client and to use it, simply enable the QuickSync option.

3.6 Video playback configurations

When clicking on the "Video Playback" option, the following screen will be displayed:



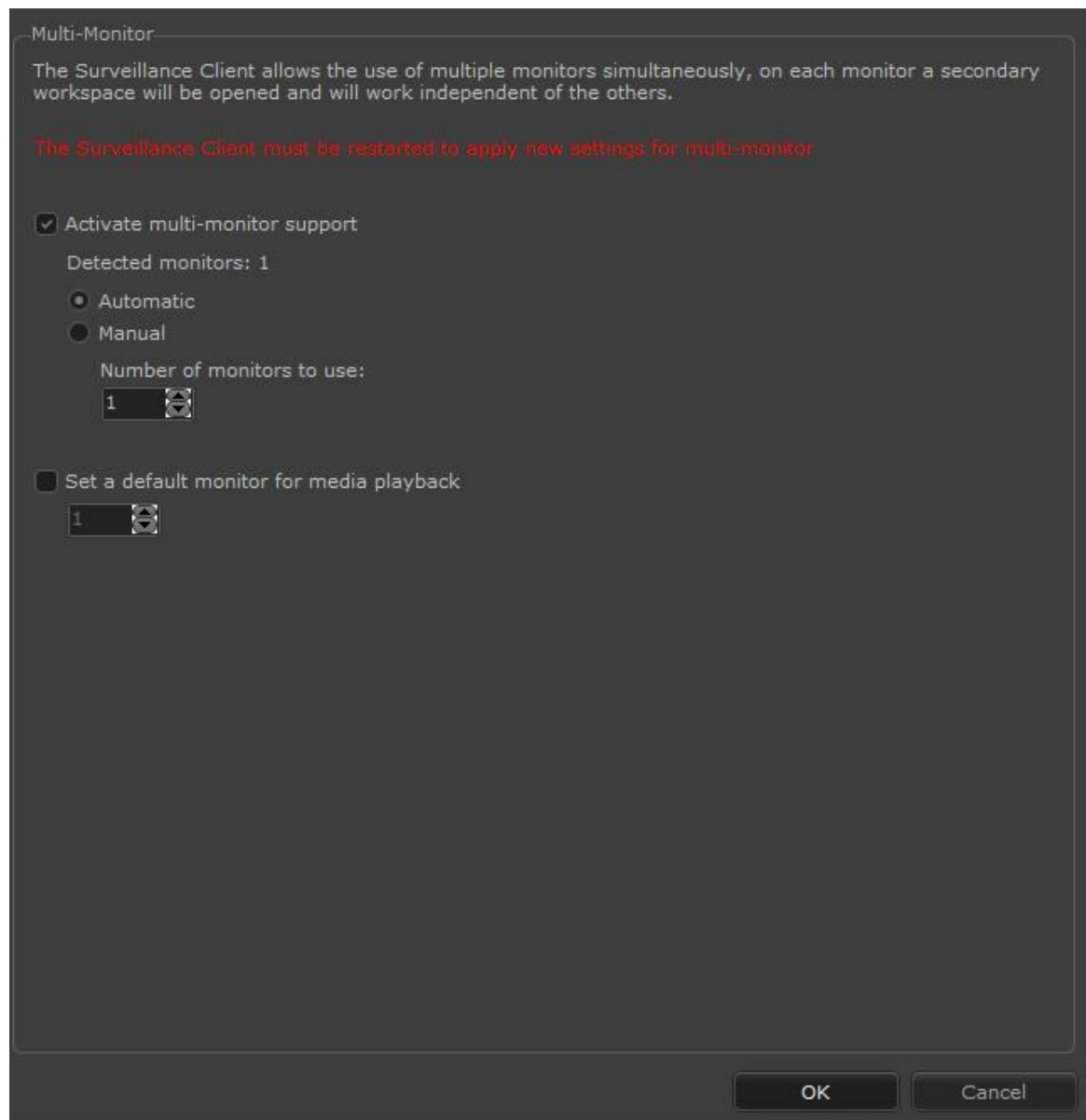
Aqui o usuário pode selecionar o **Zoom Inicial da Linha do Tempo**, que é qual intervalo de tempo será aberto por padrão ao fazer uma reprodução de mídia, assim como configurar o tempo padrão para a **Revisão Instantânea** ou mesmo selecioná-la para que já faça a reprodução para trás por padrão .

Here the user can select the **Initial Zoom of the Timeline**, which is what time interval will be opened by default when making a media playback, as well as setting the default time for the **Instant Review** or even selecting it so that it already does the playback backwards by default.

3.7 Multi-Monitor Configurations

Digifort has a feature which makes it possible to use several interconnected monitors in one single surveillance station, creating an individual surveillance screen on each monitor where, for example, you can show a surveillance screen style on one of the monitors and a single camera on the others. In this way, by adding several video cards, Digifort can work as a decoder and image multiplexer for as many cameras as are needed.

To access this feature, clique on Configurations (as explained in the topic above) and then click on the Multi-Monitor guide as shown in the figure below:



- **Activating the multi monitor support:** Activates the multi-monitor support.
- **Detected monitors:** Number of monitors detected at your work station.

- **Total monitors to be used:** Select the number of monitors to be used.
- **Define a standard monitor for the Media Playback:** Defines on which monitor the Digifort media playback will appear when opened.

Note: To know the limitations of your version of Digifort see the array of resources on our Website:
<http://www.digifort.com.br/feature-matrix>

3.8 Alarms

The alarms screen allows various settings related to alarm pop-ups that are triggered on the surveillance client.

Alarm notification

☒ Automatically close the alarm notification screen

Time to close
 Seconds

☐ Cancel automatic closing for windows moved by the user

☒ Limit the amount of simultaneous alarm windows
 This option will make the old alarm windows to be automatically closed

Simultaneous alarm windows

☒ Auto-arrange alarm windows
 Select the order of monitors where the alarm windows will be presented and the maximum amount of alarm windows per monitor

Monitor	Total of alarms

Sort order

☒ New alarm first
☐ New alarm last

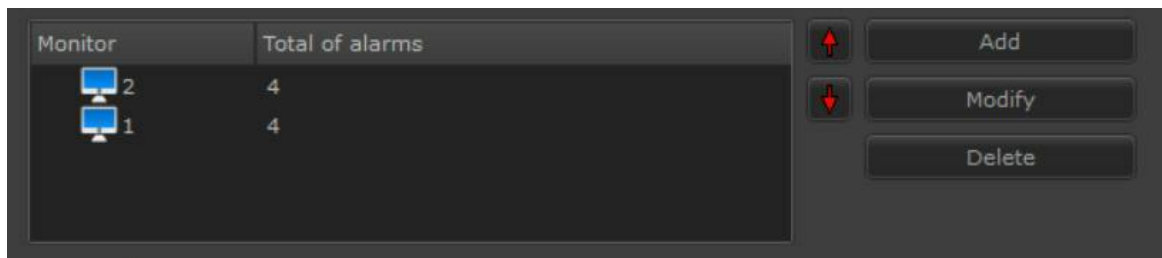
☐ Do not reposition window for repeated events
☐ Cancel automatic repositioning for windows moved by the user

The following screen has the following features:

- **Automatically close the alarm notification window:** This option makes the alarm window to be automatically closed after X seconds set. The system also allows the cancellation of the automatic closing if the alarm window is moved by the user.
- **Time to close:** With the previous option enabled, it is possible to set the time in which the alarm pop-up will automatically close.
- **Cancel automatic closing for windows moved by the user:** If the automatic closing is enabled, this option will not let the pop-up automatically close if the user drags it.
- **Limit the amount of simultaneous alarm windows:** The alarm system now allows you to limit the amount of alarm windows simultaneously open. When the windows limit is reached, the oldest pop-up will automatically close.

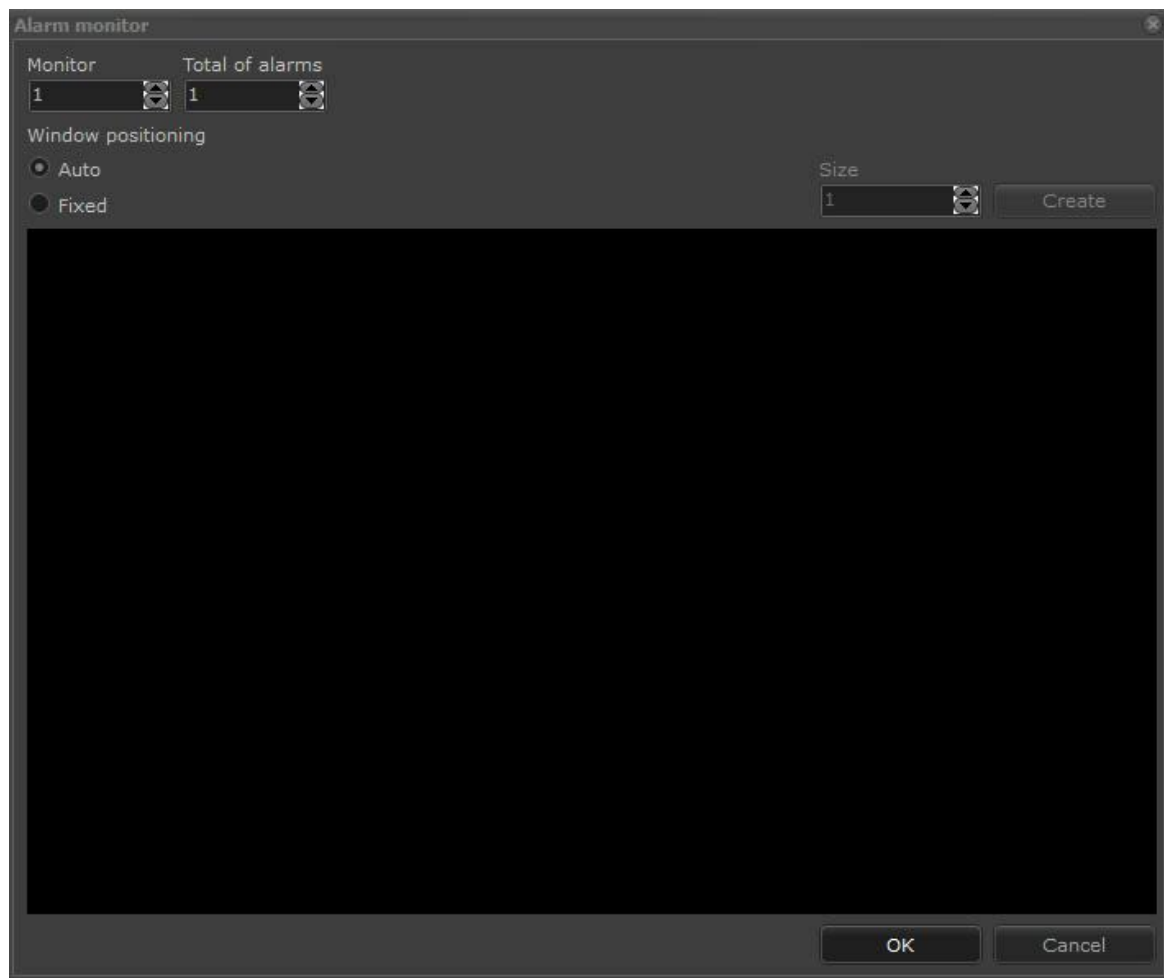
- **Simultaneous alarm windows:** Set with the number of desired alarms pop-ups to be open together.
- **Self-arranging alarm windows:** It allows the system to do the self-adjustment of the alarms windows position on the monitors. When a new alarm pop-up is opened, the system will automatically reposition and adjust the open windows size in an automatic layout format.

On the list provided on the screen you can set the order and amount of pop-up that will be displayed on each monitor:

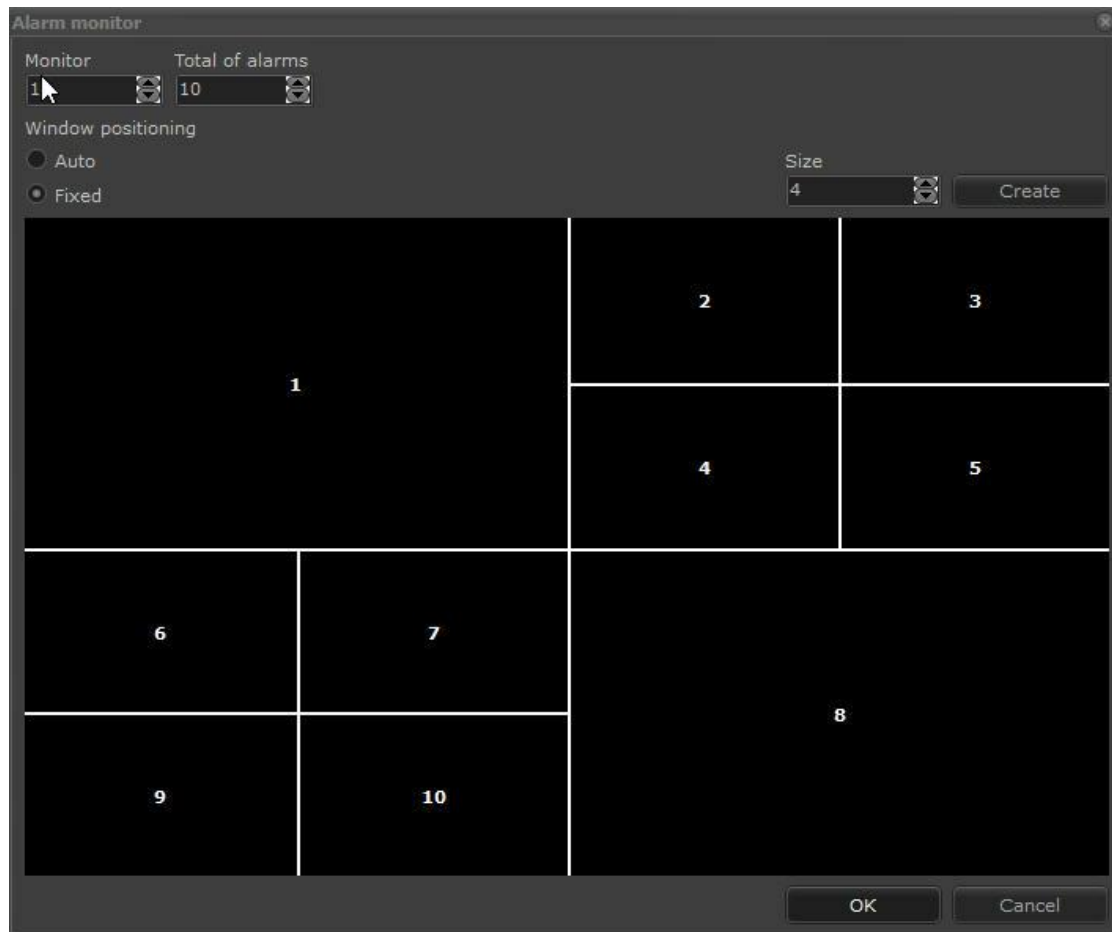


In the above image, the following order was configured: the first 4 pop-ups will be displayed on monitor number 2 and the other 4 will be displayed on monitor number 1. In this case, if 9 pop-ups are to be displayed, the oldest one will disappear leaving the most recent 8.

Upon adding a monitor to the list, the following screen will be displayed:



- **Monitor:** Selects the number of the monitor to receive the alarms.
- **Total number of alarms:** Selects the maximum number of alarms that this alarm can receive
- **Window positioning:**
 - Select automatic in order for the system to arrange alarm position automatically, according to the **total number of alarms** configured.
 - Select fixed in order to configure the desired layout manually. Example for 10 alarms:



The order in which the pop-ups may appear is:

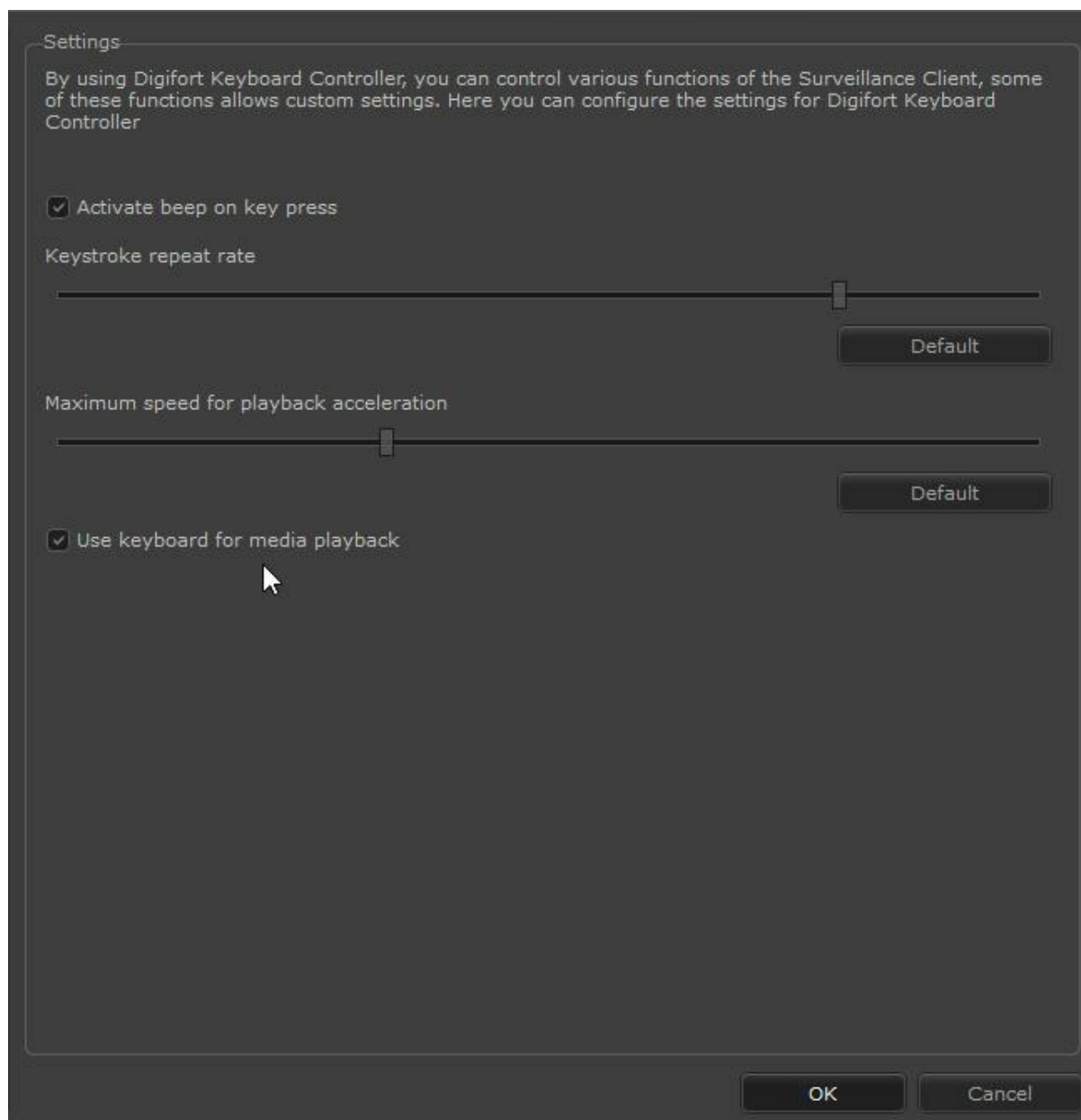
- **New alarm first:** In the hypothetical case of alarms A1 and A2 being on the screen, a new alarm would take the place of A1. Then we would have: A1 (new alarm), A2 and A3.
- **New alarm, a last one:** In the hypothetical case of alarms A1 and A2 being on the screen, a new alarm to be taken would be A3. Then we would have: A1, A2 and A3 (new alarm).
- **Do not reposition the window for repeated events:** If "Self-arranging alarm windows" is active and the same alarm is triggered twice, the pop-up that is already open on the screen of the same type will not be repositioned.
- **Cancel automatic repositioning for windows moved by the user:** The windows that are moved by the user will no longer be automatically repositioned by the system.

3.9 Digifort Keyboard Controller

Digifort offers integration with the Digifort keyboard controller. This keyboard controller gives the user full control over the Surveillance Client without the need for a mouse and keyboard. The photo below illustrates the keyboard controller:



For information on how to use the Digifort Keyboard Controller, see Digifort Keyboard manual available on Digifort website.

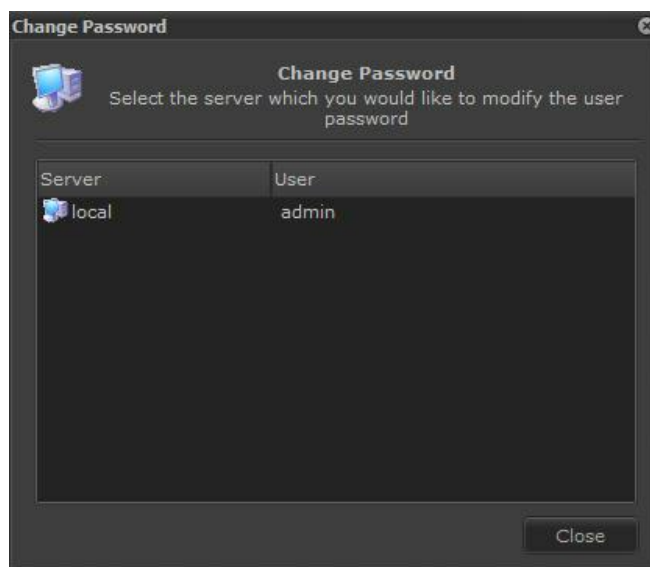


In the above screen, it is possible to adjust the following settings:

- Enable and disable beep upon pressing a key on the Keyboard Controller.
- Adjust repetition speed upon maintaining a key pressed on the Keyboard Controller.
- Set the maximum video acceleration speed during media playback on rotating the Z-axis of the Keyboard Controller.
- **Use the keyboard controller for media playback:** Allows the use of the Digifort keyboard controller for media playback to be disabled. When the media player is opened, the keyboard controller will continue to operate live for the selected camera, sending PTZ controls to this camera instead of controlling the media player.

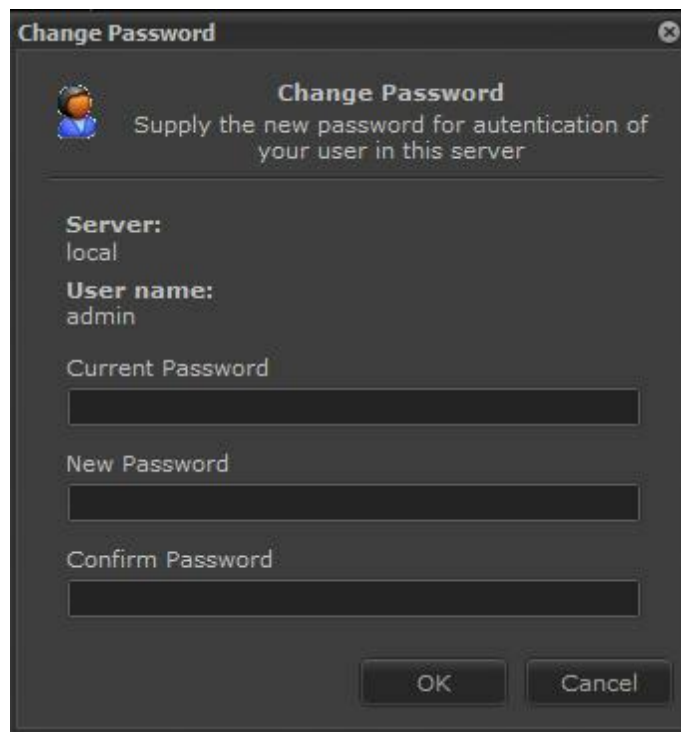
3.10 Modifying the user password

The Surveillance Client is equipped with a function for changing the password of users logged into the servers. To do this, press the F12 key of your keyboard, displaying the password modification screen, as shown in the picture below.



All users in the servers to which you are connected and their respective users are listed in this screen.

To change the password of some user, double-click on the desired server, opening the screen below:



Enter the current password, the new password, and the confirmation of the new password.

If all data is correct, the password will be modified and must be used during the next log-in.

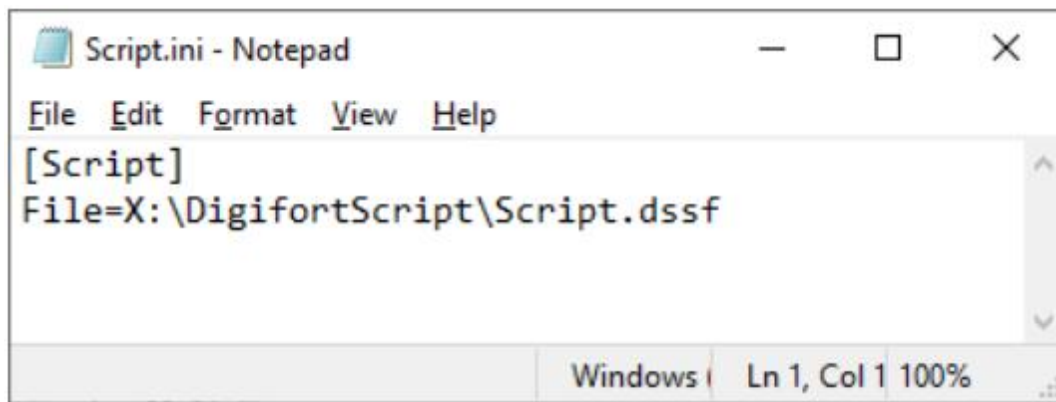
If the server with the modified password has the auto-login option enabled, it will be necessary to modify this configuration, entering the new password.

3.11 Centralized registration of Surveillance Client servers

In installations with multiple servers, server registration in monitoring stations can become a very complex work, and when there is an IP change or server addition, all clients must be changed.

To facilitate server registration in Surveillance Clients, the system now allows the specification of a file (of a shared folder on the network) from where the Surveillance Client will load server registration.

To use this feature, it is first necessary to define a file called Script.ini and save it in the Surveillance Client's installation folder. This file will contain the server file path:



When the Surveillance Client opens, this file (if any) will be queried and the system will attempt to open the referenced script file (which must preferably be on a shared network drive, where all clients have access). If the file is located and successfully opened, the system will load the list of registered servers into this file.

With this method, whenever there is a server change (e.g., a new server or changed IP address), simply change this central file and all clients will receive the update the next time they are loaded.

The file containing the server definitions follows the format of the Surveillance Client script file.



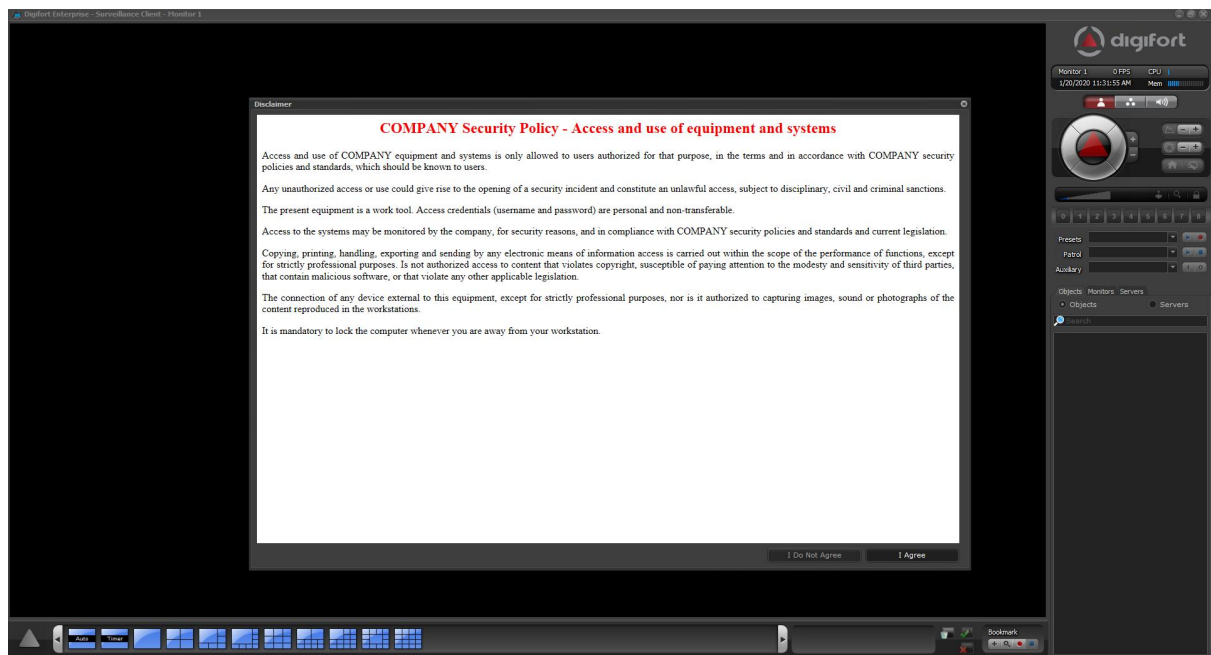
An example Script to load 3 servers:



3.12 Disclaimer Message

The system now allows the display of a custom disclaimer message upon opening the Surveillance Client or Administration Client. The user must click on "I Agree" to be able to use the system, otherwise the client will be closed.

To add a custom disclaimer message, simply add a file called "Disclaimer.htm" in the client's installation folder.



Chapter



IV

4 Working with Screenstyles

The Explorer version of Digifort provides eight different screen styles. For each screen style unlimited tiles can be created

Upon creation of a view, it will be saved in the profile of the user logged into the Surveillance Client. Thus, each user can have his own customized views.



Automatic screenstyle: This screenstyle permits the creation of views of automatic sizing, that is, as many cameras as necessary can be inserted into this view, which automatically resizes the space reserved for each camera in such a way that all of them can be displayed in the screen simultaneously.



Timer screenstyle: This screenstyle permits the creation of sequences of cameras and views that will be displayed alternately on the screen with a time specified by the user.



Screenstyle for one camera: This screenstyle permits the visualization of a single camera in the screen.



Screenstyle for four cameras: This screenstyle permits the creation of views for addition of up to four cameras to be displayed simultaneously.



Screenstyle for eight cameras: This screenstyle permits the creation of views for addition of up to eight cameras to be displayed simultaneously.



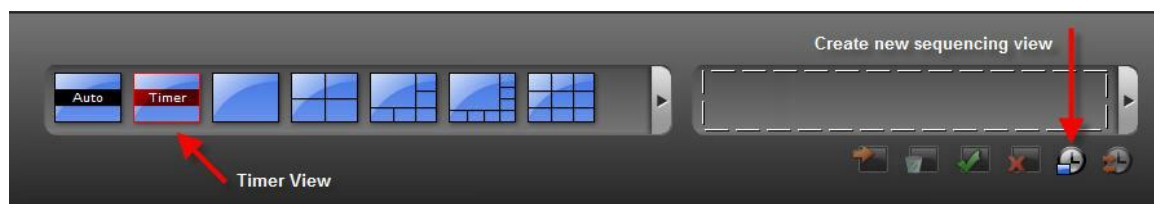
Screenstyle for ten cameras: This screenstyle permits the creation of views for addition of up to ten cameras to be displayed simultaneously.



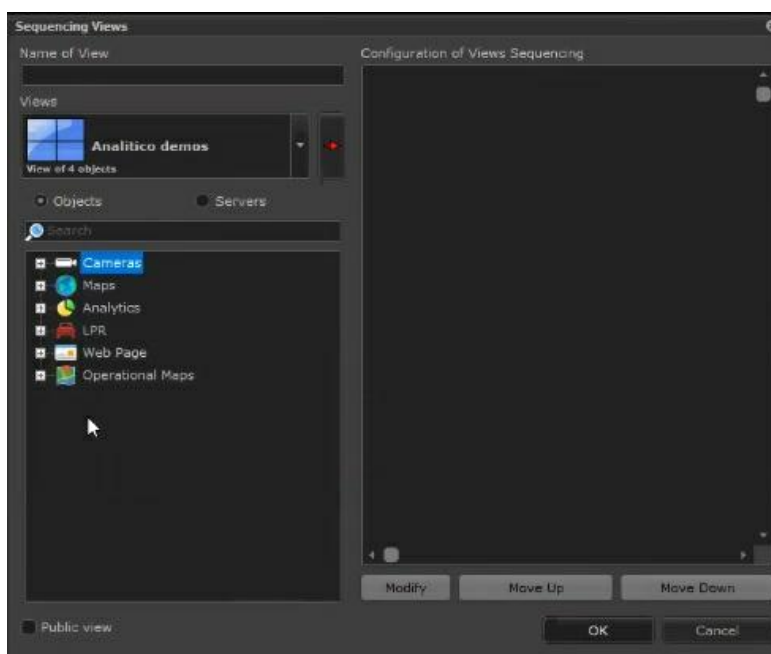
Screenstyle for thirteen cameras: This screenstyle permits the creation of views for addition of up to thirteen cameras to be displayed simultaneously.

4.1 How to create timer views

This screenstyle permits the creation of a sequence of cameras and views that will be displayed alternately with a time defined by the user. To access this feature, select the timer view in the list of views and then click on New, as shown in the picture below.



After this process, the timer view inclusion screen will be displayed, as shown in the picture below.

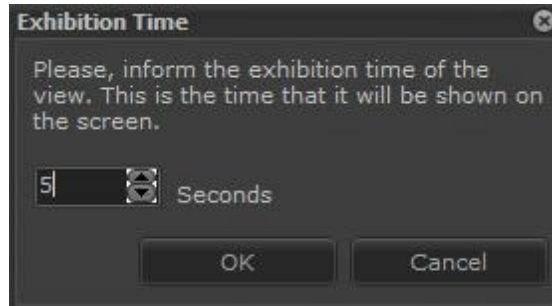


- **Name of the view:** Enter a reference name for the view.
- **Available views:** List of available views. These views were previously created. To learn how to create views, see page 34.
- **Available cameras:** List of available cameras. These cameras were previously registered. To

learn how to register cameras, consult the manual of the Administration Client.

- **Configuration of the sequence of views:** List of timer view items created by the user.
- **Up and down buttons:** Modify the order of the selected view.

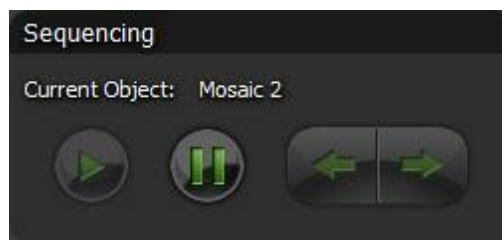
To add a camera or a view to the sequence, select it and click on the Add button, represented by the red arrow pointing to the right, opening the screen that requests the time during which the camera or view will remain in the screen, as shown in the picture below.



Inform the desired time and click on **OK**.

After addition of all of the desired views and cameras to the timer view, it starts its execution, showing the times in the sequence you created.

Digifort offers some controls for manipulation of this view, located in the main screen of the Surveillance Client, with functions such as sequence pause, advance and rewind among cameras or views, and reinstate, as shown in the picture below.



4.2 Working with panamorphic lenses

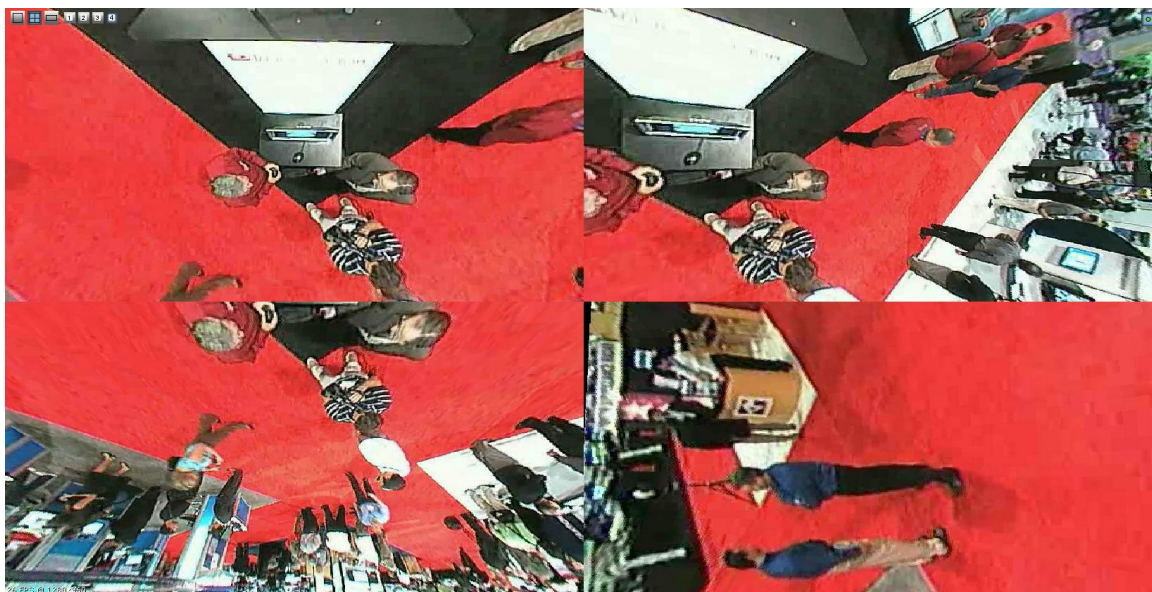
To understand what Panamorphic Lens is, see the Administration Client Manual.

By placing a camera with Panamorphic lenses on the screen, the following buttons are available:

-  Virtual PTZ: Allows you to navigate the camera with an image in dewarp.



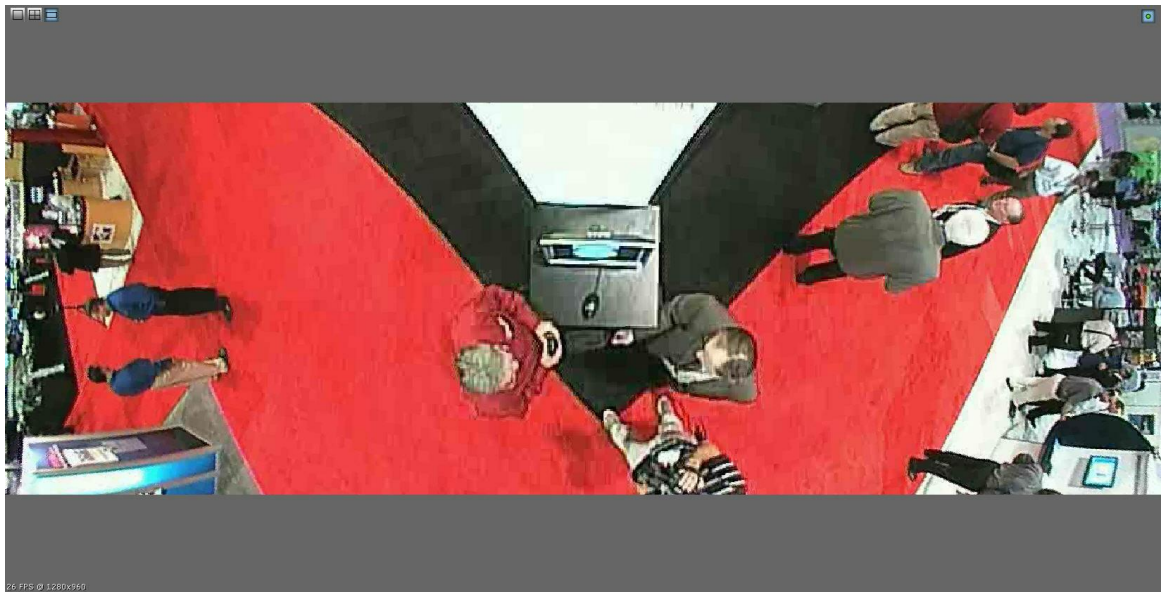
Divides into 4 cameras without distortion as illustrated below:




To operate the PTZ in one of the divisions, simply click on the desired number represented by the icons: **1** **2** **3** **4**

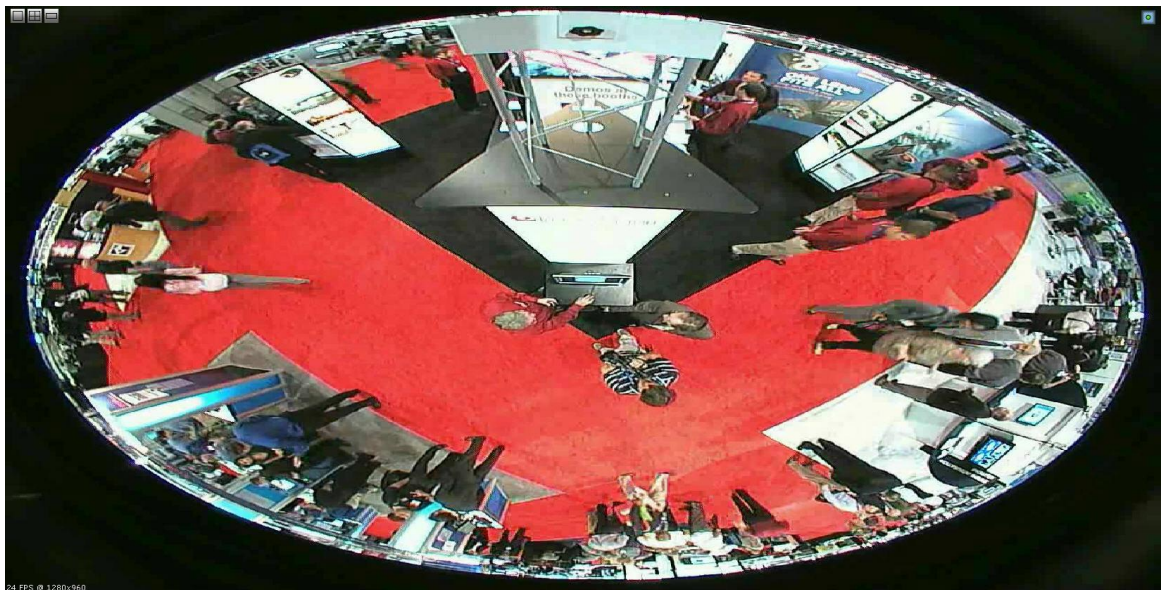


Generates a panoramic image as shown below



 Enables or disables the controls. Upon disabling the document image is shown.

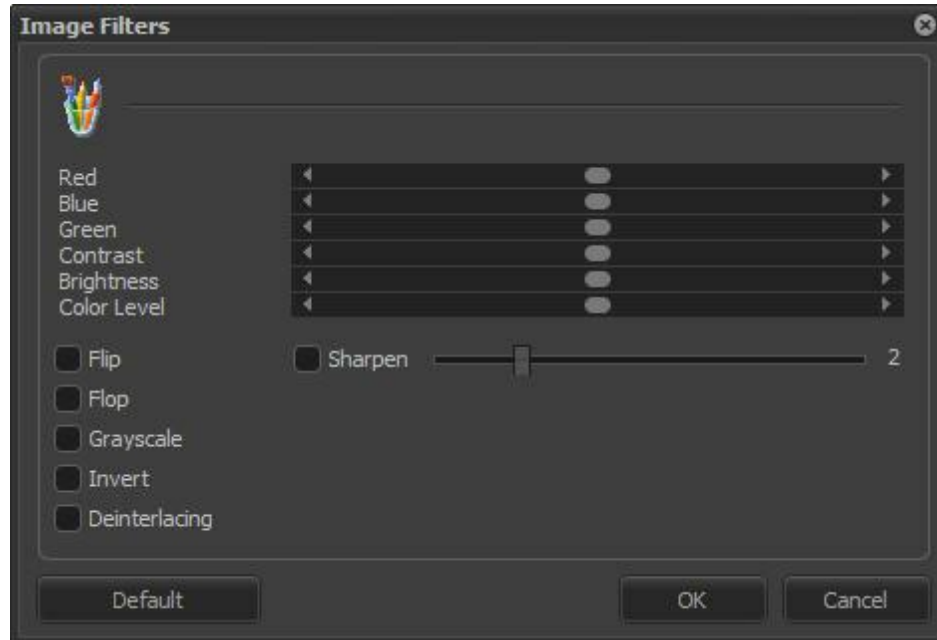
By disabling all controls the original image is shown as below.



4.3 How to configure the image filters

Image filters are configurations applied to the image of a camera aimed at highlighting colors and details of a scene for helping in its analysis.

To access this feature, click on the right button of the mouse over the image of some camera, thus showing a menu of special functions, and select the Image Filters option, as shown in the picture below.



- **Red:** Adjusts the level of the color red in the image.
- **Blue:** Adjusts the level of the color blue in the image.
- **Green:** Adjusts the level of the color green in the image.
- **Contrast:** Adjusts the level of contrast in the image.
- **Brightness:** Adjusts the level of brightness in the image.
- **Color level:** Adjusts the level of color in the image.
- **Zero button:** Returns the above mentioned values to their initial positions.
- **Preview button:** Opens the video of the camera with the applied configurations.
- **Emboss:** Leaves the image in gray tones to highlight relief.
- **Flip:** Inverts the image horizontally. Recommended when the camera is installed in an inverted position.
- **Flop:** Inverts the image vertically. Recommended when the camera is installed in an inverted position.
- **Grayscale:** Leaves the image in gray tones.
- **Blur:** Applies a blurring effect to the image. Adjust the intensity level of the filter using the slide bar alongside.
- **Gaussian Blur:** Applies a Gaussian blurring effect to the image. Adjust the intensity level of the filter using the slide bar alongside.
- **Sharpen:** Applies a border highlight effect to the image.
- **Deinterlacing:** The deinterlacing filter that smooths the images because of the movement are left with a lower quality. In the picture below has an example of deinterlacing.



NOTE: To know the limitations of these features of his version of Digifort see the feature matrix on our website: <http://www.digifort.com.br/feature-matrix>

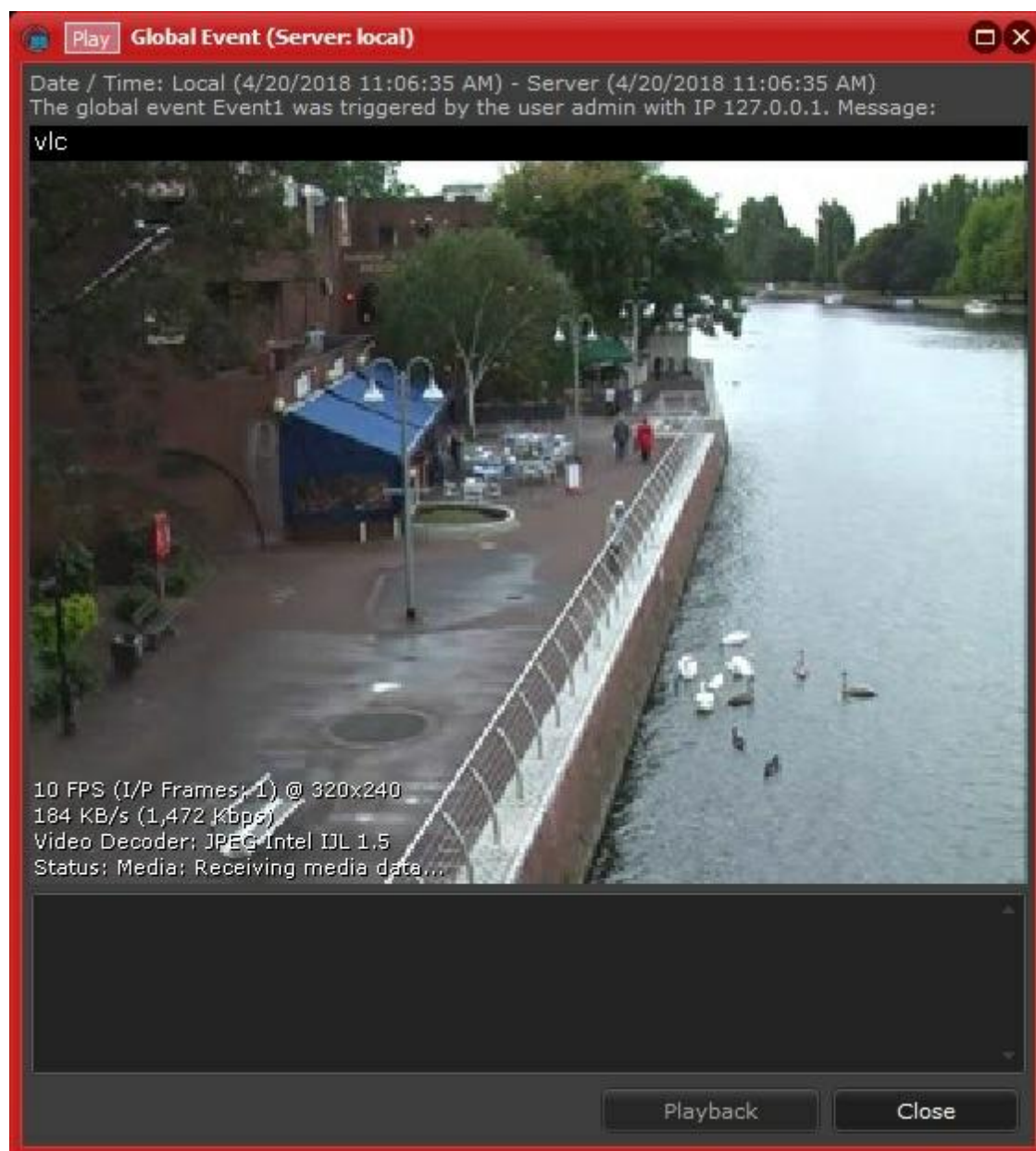
Chapter



5 Alarmes

The Surveillance Client, in addition to visually managing the cameras on the screen, also manages the alarms that are set in the Administration Client.

When alarms are triggered, they are shown in the form of pop-ups, as shown below:



This screen has the following features:

Date / Time: Date and time the event occurred. The client and server times will be shown.

Description: Description of the event.

Save position upon closing the screen: It saves the position on the screen where the pop-up can be found for the next pop-up to open on the same place.

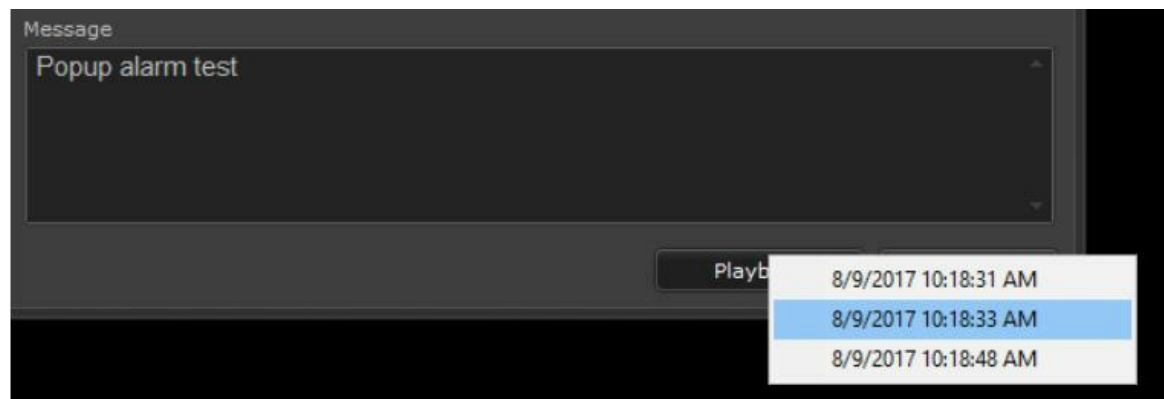
Playback: It provides a recording at 4 minutes before and after the Event **trigger** time

Alarm windows, by default, will not open again if the same event occurs again while the window is already open; however, when the event is set to request a written confirmation from the operator, a new alarm window opens, thereby forcing the operator to confirm all events in writing.

The alarm pop-up can still contain some other features that are set in the Administration Client.

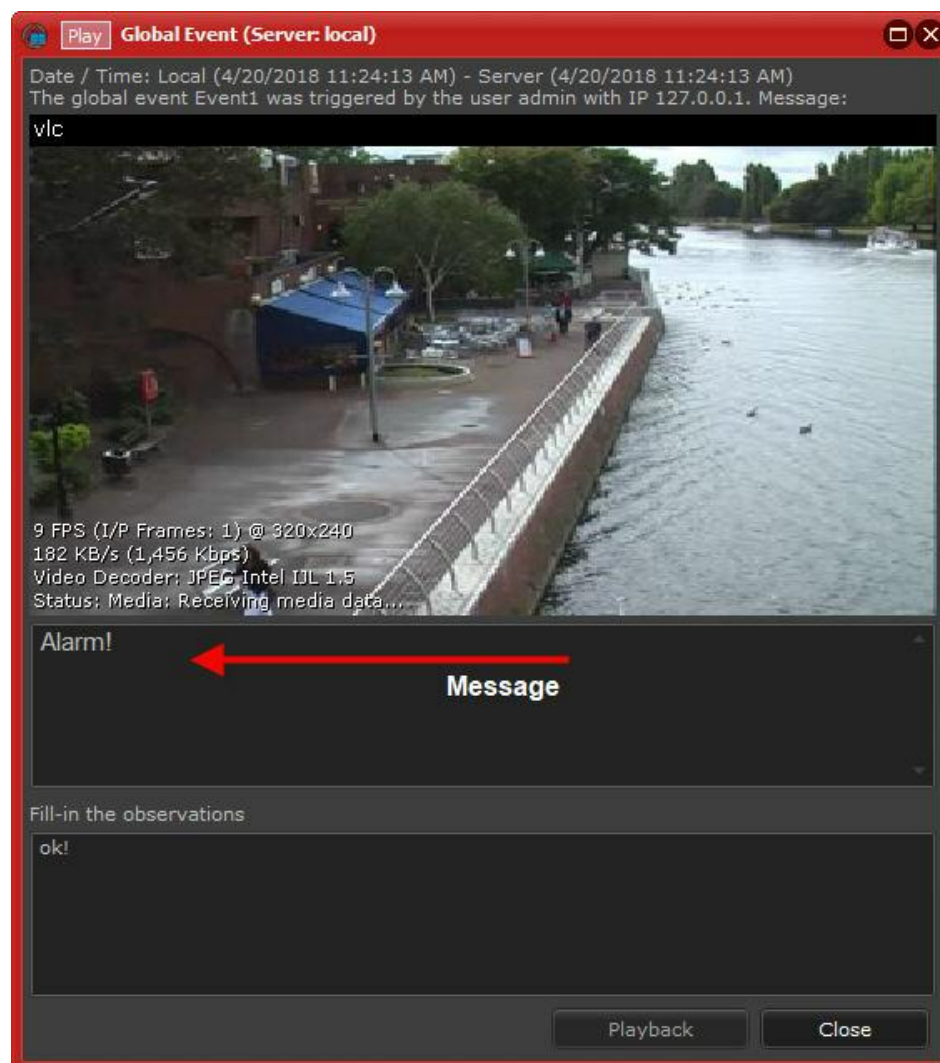
The alarm window will store the time for all repeated alarms that occurred while the window was open, allowing the user to choose a specific time when clicking the

Playback button as shown in the image below:



5.1 Message

A message that has been configured to complement the description for the alarm set off as shown in the picture below:



Chapter



VI

6 Video Playback

This chapter is dedicated to the playback of videos previously recorded by the Digifort Server.

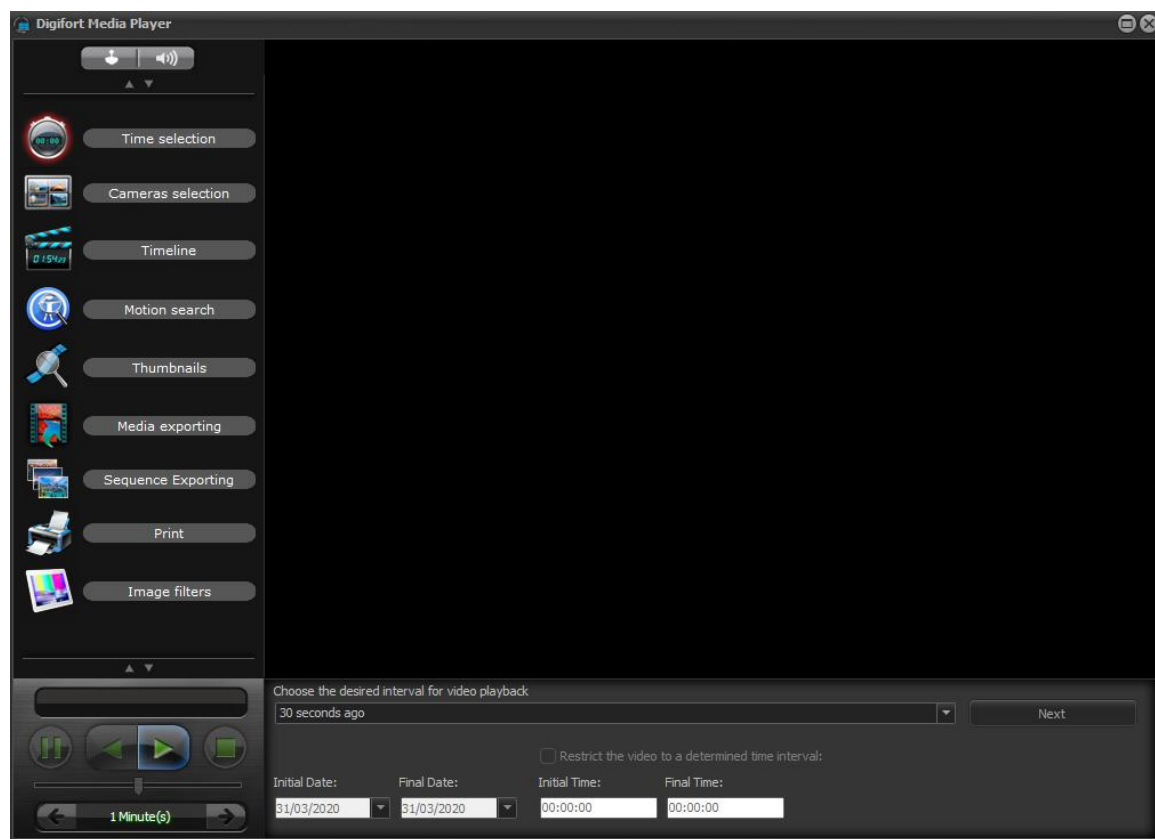
The images recorded in the server are recovered by selecting the camera and by carrying out a date and time search. It is also possible to create a video only when there is movement in the selected image area. The user can zoom in or out of the scene viewed, and each with an independent movement regarding the main image. There is also a number of filters and tools for image treatment and video RGB control aimed at facilitating the location of details that may be difficult to see.

The object link function is also available during export, thus allowing the operator to navigate between cameras easily and quickly.

6.1 Playing videos back

O Digifort fornece a opção de visualizar vídeos previamente gravados. Para isso clique sobre o botão Reprodutor de Mídia, a seguinte tela de reprodução de vídeo será aberta conforme ilustrado nas figuras abaixo:

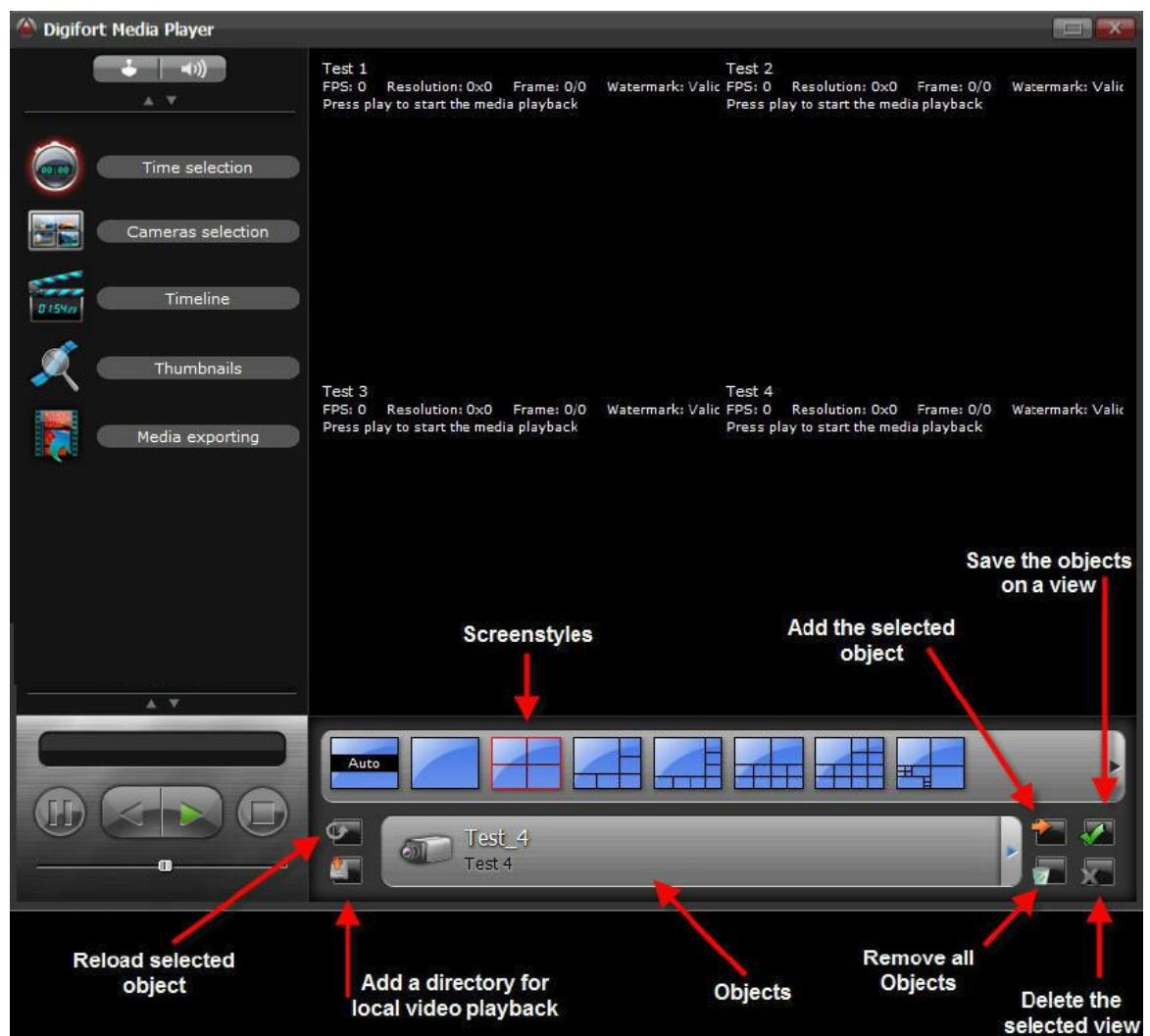




Para reproduzir o vídeo de uma ou mais câmeras, escolha o período desejado. Para escolher seu próprio período selecione o período Personalizado e preencha os campos de data e hora localizados abaixo.

Ao término dos ajustes clique em **Próximo**, abrindo a tela de Configuração de câmeras conforme ilustrado na figura abaixo.

Caso deseje visualizar um vídeo exportado selecione a opção Reproduzir gravações locais e selecione o diretório onde se localiza o vídeo. Para aprender a realizar gravações locais veja o capítulo Realizando Gravações Locais



Com a tela de Configuração de Câmeras aberta, primeiramente escolha o mosaico para a visualização da gravação.

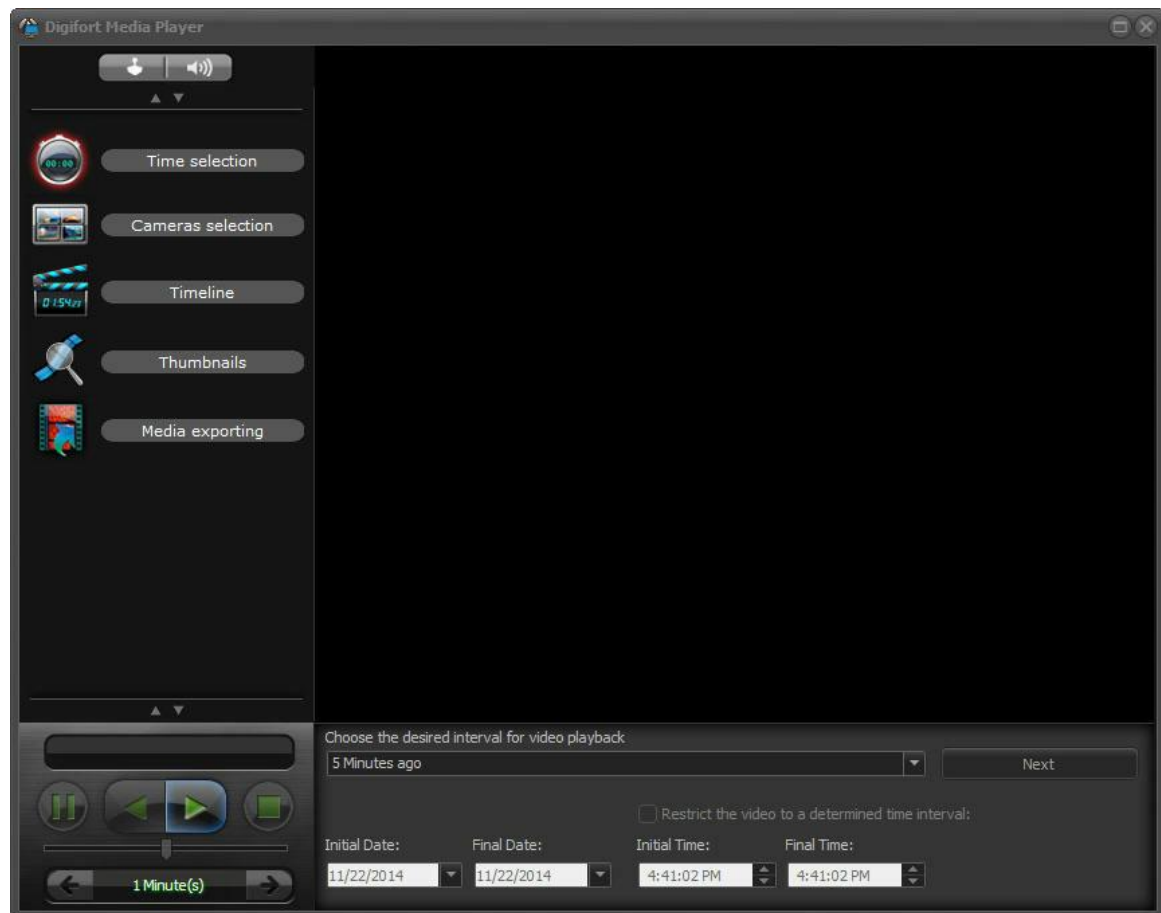
O Digifort permite a visualização e exportação de várias câmeras simultâneas e sincronizadas, por isso a escolha do mosaico se torna importante para a visualização das câmeras necessárias. Para aprender a criar seus próprios mosaicos consulte o manual do Digifort Cliente de Administração.

Após a escolha do mosaico, selecione os objetos a serem adicionados. A seguinte tela será aberta:



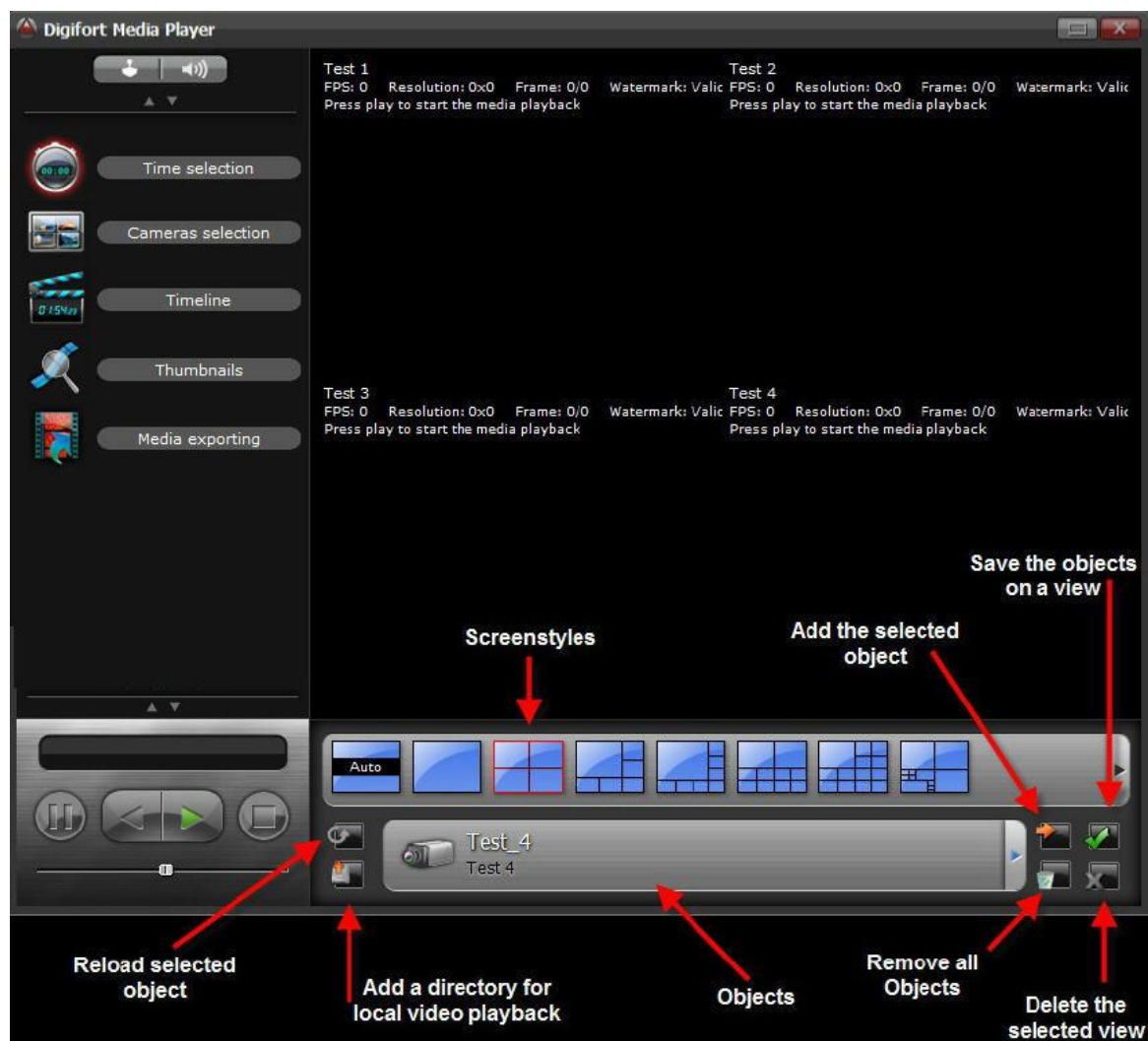
The Digifort provides the option to view previously recorded videos. To do this click on the Media Player button. The following video playback screen will open as illustrated in the images below::





To play the video from one or more cameras, choose the period you want. To choose your own period select the Custom period and fill in the date and time fields located below. At the end of the settings click on **Next**, opening the Camera setup screen as illustrated in the image below.

If you want to view an exported video, select the option Play local recordings and select the directory where the video is located. To learn how to perform local recordings check the chapter Performing Local Recordings



With the Camera Setup screen open, first choose the screenstyle to view the recording.

Digifort allows viewing and exporting multiple simultaneous and synchronized cameras, so choosing the screenstyle is important to view the cameras needed. To learn how to create your own screenstyle, check the Digifort Administration Client Manual.

After choosing the screenstyle, select the objects to be added. The following screen opens:



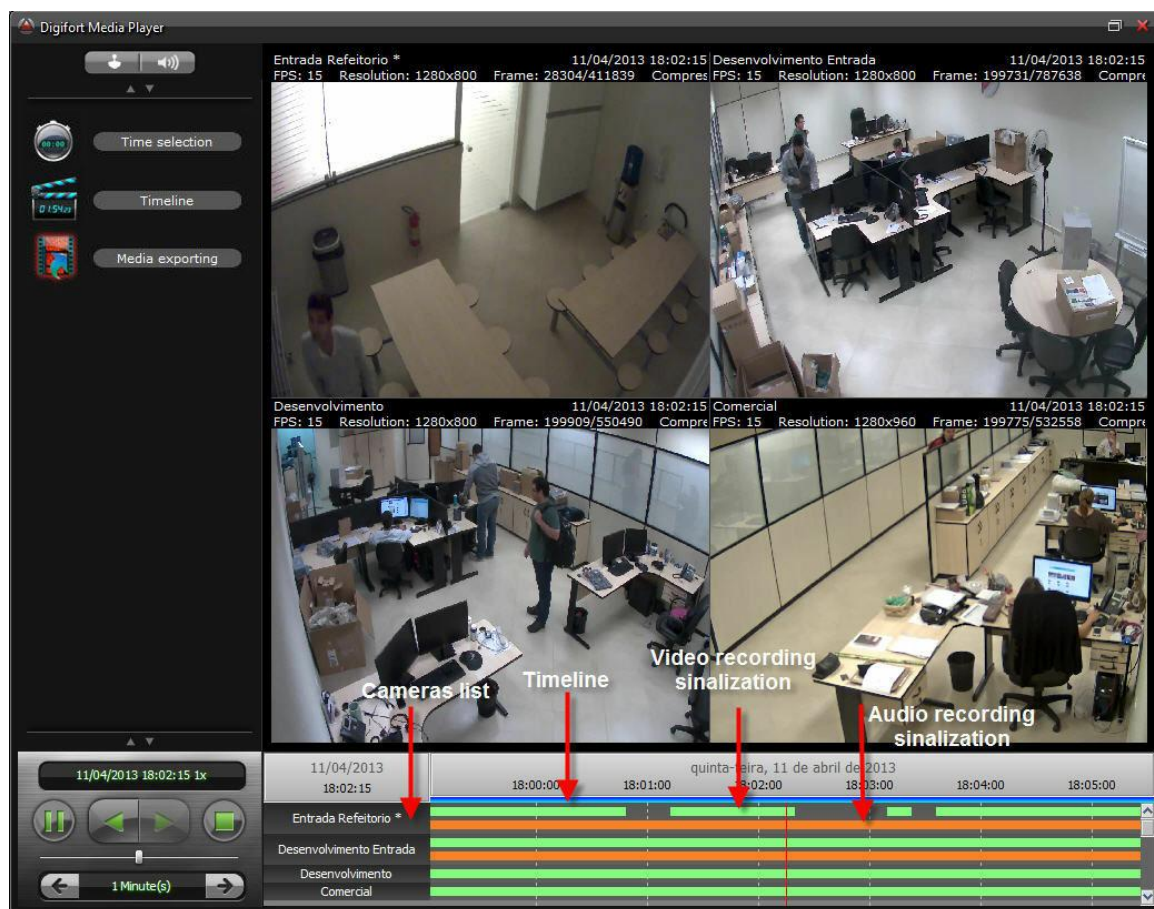
This screen provides the following features:

- **Organization by objects:** Show all objects in the list.
- **Physical organization:** Show all objects organized by server.
- **Add object by double-clicking:** Allow objects to be dynamically added to screenstyles by double-clicking.
- **Object list:** Click on an object. If the option Add objects by double-clicking is disabled, then click on Add the selected object.

When all cameras you want are on the screen, click on Play.



The Timeline screen will open as illustrated in the figure below:






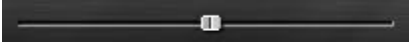



In this screen there will be the video control and the time line.

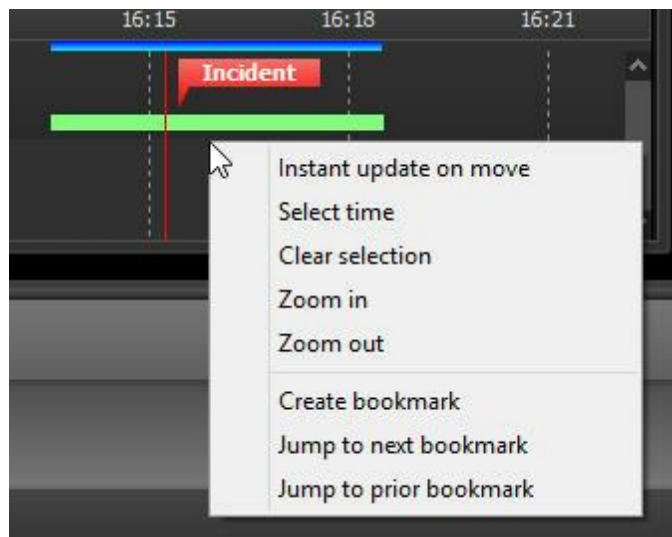
The Media Player offers the following functions:

- **Information about the video:** General information about the video, such as date, time, resolution, frames per second, video compression and the number of the current image.
- **Authentication watermark of the image:** When the image coming from the camera is recorded in disk, a security code is generated based on the image. If, for any reason, the image is modified, the authenticity code is broken, showing a crossed circle as watermark.
- **Video timeline:** Scroll bar with which it's possible to advance, rewind, and export the video.
- **Demarcações de Áudio:** A linha do tempo marca com retângulos laranjas onde houve gravação em cada câmera. O Áudio é reproduzido juntamente com o vídeo da câmera

- **Limitation of recording intervals:** The time line shows green rectangles to mark where each camera had recording. It is in this time interval that video for exportation must be selected.
- **Select the desired period with the right button:** With the right button it's possible to select the desired recording period for exportation. Simply click-and-drag and a blue bar will come up limiting the time line for exportation.
- **Zoom on the time line:** To analyze or select a more detailed time period it's possible to space the time line out for greater precision. Use the +-key to increase the spacing and the — key to decrease.
- **Tool bar:** The tool bar offers the following functions:

-  Play video back in reverse
-  Play video back.
-  Pauses the video.
-  Stops the video.
-  Shows information about the date, time and playback speed.
-  Video playback speed.
-  Forwards the video every minute or every second. Just click on the arrows to move forward or backward.
- To change the time, place your mouse over the description of the time and click and drag. By default, the component will be in minutes mode, to change for seconds let in 1 minute and then release the click and click again dragging left. After doing so, simply click and drag over the time period to select seconds. To switch back to the minutes, put in 1 minute and then release and click again and drag to the right.
- **Digital Zoom:** Is it possible the implementation of the Digital Zoom on the selected images to view the recording. Just add the cameras screen video playback and the right to select the desired area. In the lower right corner will show the location of the selected area. Selecting the camera is possible to print the image or save it in JPG format.

Some options are available when you click with the **right button on the timeline** as shown in the image below:



- **Instantaneous timeline update:** By moving the video player timeline, by default, image update will only take place 500ms after the user stops moving. A new option for instantaneous updates was added.

With this option, the image will be instantaneously updated on moving the timeline, allowing a quick view of those events that have taken place at various times by simply dragging the timeline (in order for this resource to work correctly, the client must be on a high-performance local network).

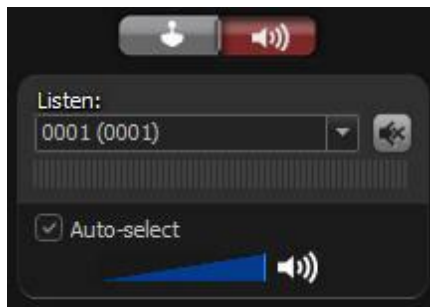
- **Select a time period:** Select a time period to export or for motion detection. The demarcation of the selected period is indicated by the blue bar.
- **Clear the time selection:** Clear the time selection marked by the blue bar.
- **Zoom in:** increases the time spacing marked in the timeline.
- **Zoom out:** decreases the time spacing marked in the timeline.
- **Create Bookmark:** To learn about Bookmarks check chapter: Bookmark. (Professional and Enterprise only)
- **Skip to the next Bookmark:** Allows you to move the recording to the next Bookmark. To learn about Bookmarks check chapter: Bookmark.
- **Skip to the previous Bookmark:** Allows to rewind the recording to the previous Bookmark. To learn about Bookmarks check chapter: Bookmark.

the desired recording period for exportation. Simply click-and-drag and a blue bar will come up limiting the time line for exportation.

- **Zoom on the time line:** To analyze or select a more detailed time period it's possible to space the time line out for greater precision. Use the +-key to increase the spacing and the — key to decrease.

6.1.1 Playing audio back

The audio is recorded along with the video from the camera, if enabled. To choose the camera you want to listen to, simply select it on the playback mosaic or click on the audio option, as shown in the figure below:



In this control, it is possible to select the camera, activate the mute option, and view the volume of the recorded audio.

- **Auto Select:** Automatically selects the audio functions for the selected camera on the mosaic.

6.1.2 PTZ on playback

You can use PTZ controls in the recording. To open the control just click the joystick option as shown below:

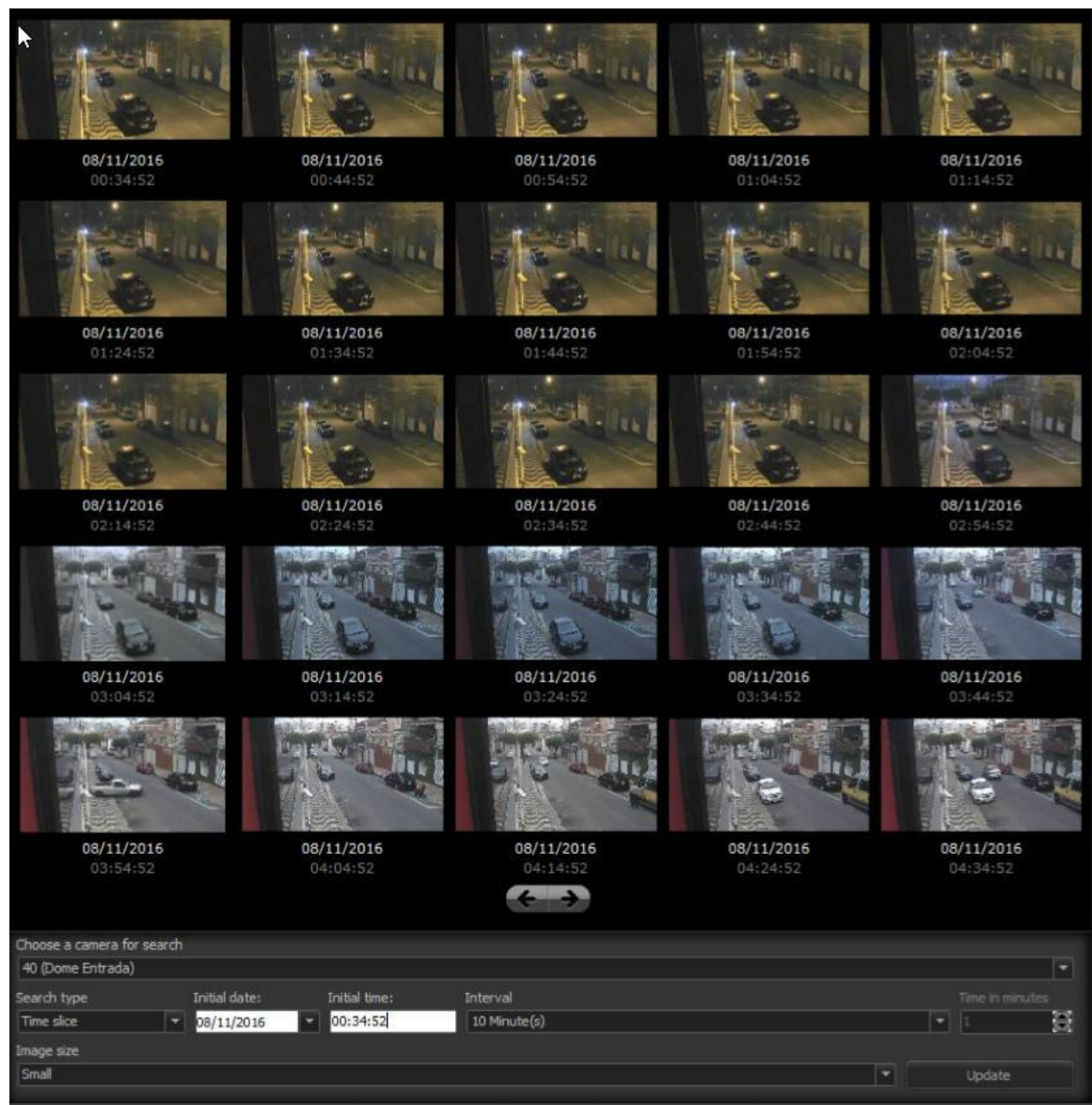


- **Camera with standard lens:** The PTZ will be used in Digital Zoom mode.
- **Camera with Panamorph lenses:** The options presented in the chapter [Working with panamorphic lenses](#)^[51] will be available on the screen.

6.2 Thumbnails

The Media Player allows searching by thumbnails. This excellent feature will display a thumbnail for different recording times, allowing the quick pinpointing of a desired scene.

It is possible to generate thumbnails based on a slice of time, where the system will display thumbnails with a fixed time interval or by bookmark in which case the system will display a thumbnail for each camera bookmark. The system further allows the custom choice of time intervals and the size/number of thumbnails on the screen. By clicking on a thumbnail, the video will be synchronized with the time of the thumbnail for quick event viewing.



This screen has the following configurations:

- **Choice of camera for the search:** Selects the camera for which you wish to view the thumbnails. The camera must already be open for playback within the previously set time.
- **Type of search:**
 - **Time:** Divides the thumbnails by set intervals. In the example above, there are thumbnails at every 10 minutes.
 - **Bookmark:** Provides bookmark thumbnails created by the user.
- **Start date:** Selects the start date from which the thumbnails will be displayed.
- **Start time:** Selects the start time from which the thumbnails will be displayed.
- **Interval:** Selects the desired interval between each thumbnail.
- **Time in minutes:** If the "custom" option is selected in the interval option, it is possible to select the desired interval in minutes in this option.

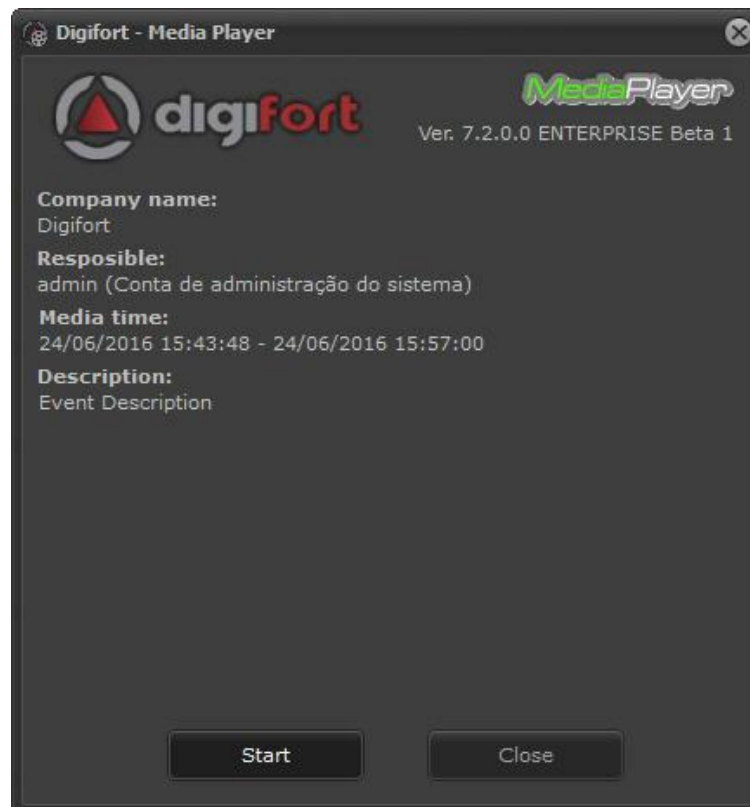
- **Image size:** Selects the display size of the thumbnails: Large, medium or small.
- **Update:** Updates the screen with new recordings.

The system further allows searching the thumbnails in videos exported in native format.

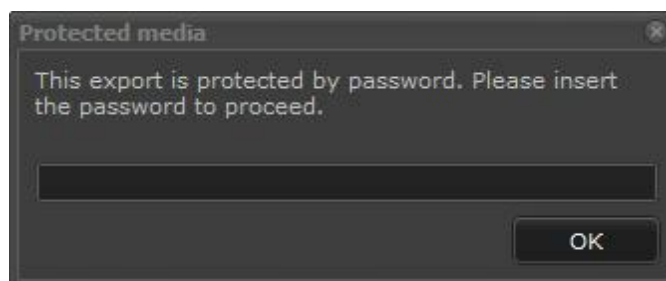
6.3 Playing Exported Videos Back

After exporting the video in the "Digifort" format, enter the export directory and find the icon "Player.exe".

This is the playback player of exported videos:

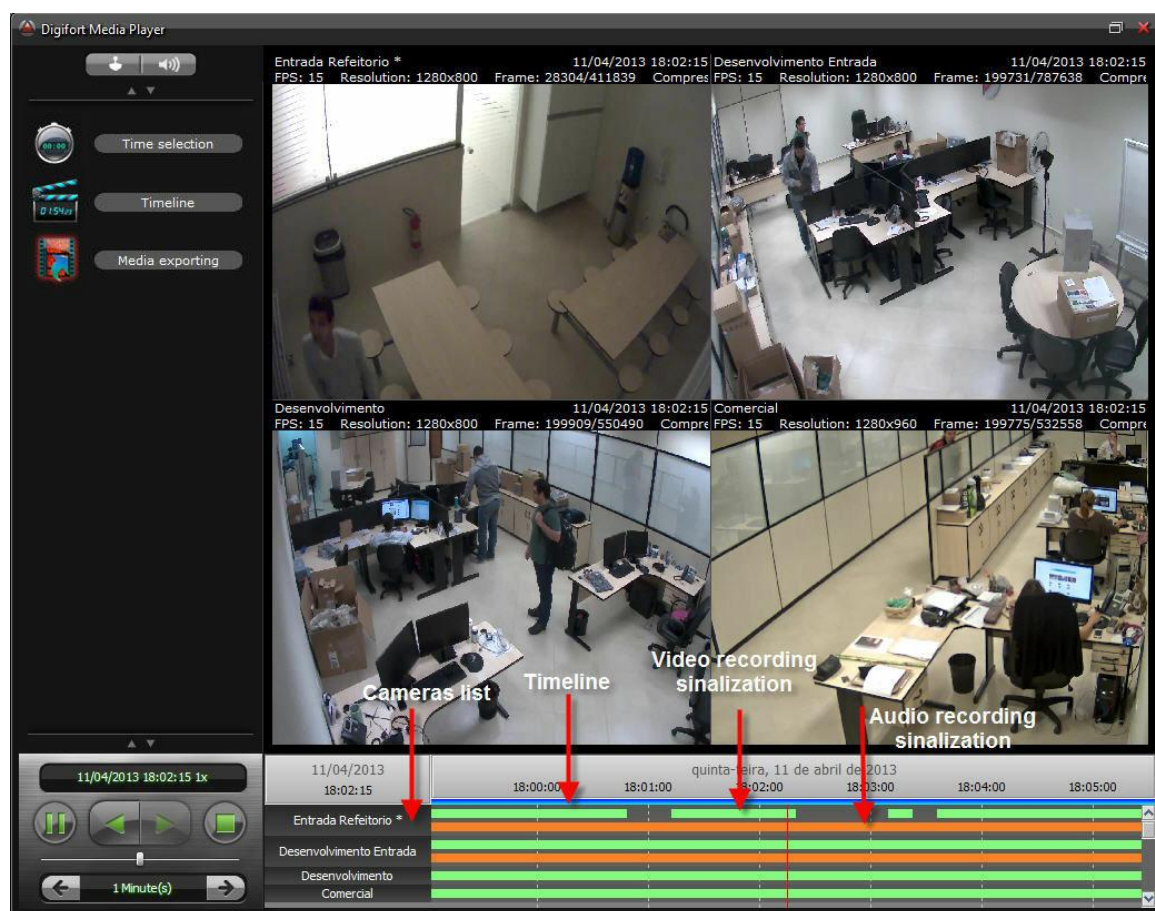


If the video is exported with a password, when you open it you will see this screen:



When the exportation was created, some information such as the person responsible for the exportation and his description was lost, these descriptions can be viewed in this first screen as shown in Figure 4.23.

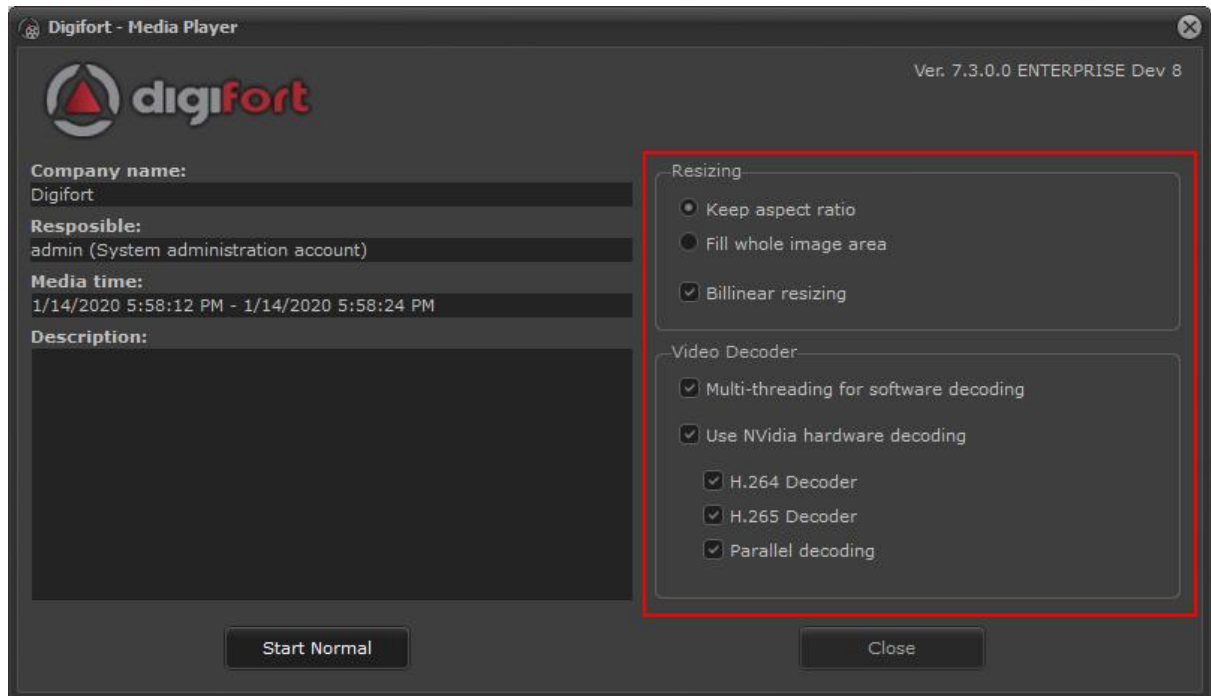
Simply click on Start and the video player will be executed with all of the functions presented on [Video Playback](#)^[61], as shown in Figure bellow.



6.3.1 Image and decoder options in the exported Player

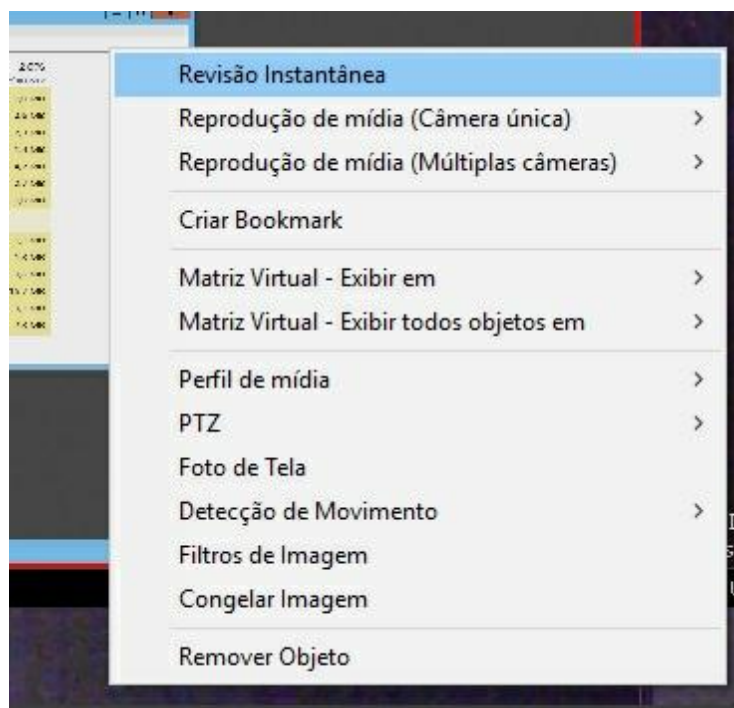
The exported video media player in the native format provides video playback options:

- **Resizing Options:** It allows you to configure the type of image resizing for improved viewing.
- **Video Decoder:** It allows you to choose multi-threading options for decoder via software (for higher performance) and decoding via NVidia GPU (only on Player64.exe)



6.4 Quick video playback

Thinking about usability, Digifort allows there to be a quick playback of recorded videos. On the Surveillance Client's main screen, right-click on a camera image, as shown in the image below:



Three playback options are available:

- **Instant Review:** This option provides a quick way to playback a video with a pre-set time. This option becomes very useful for environments where the quick viewing of events is necessary, such as, for example, in Casinos where the instant review of a fact is necessary.

By right clicking on the camera or on the list of cameras, the context pop-up will be displayed and the first option will be Instant Review, allowing quick access to the event.

You can set the time that the Instant Review will play:

- **Last 5 seconds**
- **Last 10 seconds**
- **Last 15 seconds**
- **Last 20 seconds**

To set the desired time, access the screen shown in the [video playback menu chapter](#).^[35] There is also a special “Instant Review with Backward Playback” option. This is becoming an essential tool for Casinos, as playback will start at the current time and will play the video backwards, allowing the visualization of a fact that occurred in a few moments.

- **Media playback (Single Camera):** This option plays back the video from the selected camera. After the option is selected, the timeline screen will be displayed as in the [Video Chapter](#).^[61] chapter;
- **Media Playback (Multiple Cameras):** This option plays back the video from the cameras that are in the mosaic. After the option is selected, the timeline screen will be displayed as in the [Video Chapter](#).^[61] chapter;

The quick playback option is also available for Analytic and LPR objects, when available.

Note

The quick video playback option can also be accessed by right-clicking on an object in the list (cameras or mosaics)

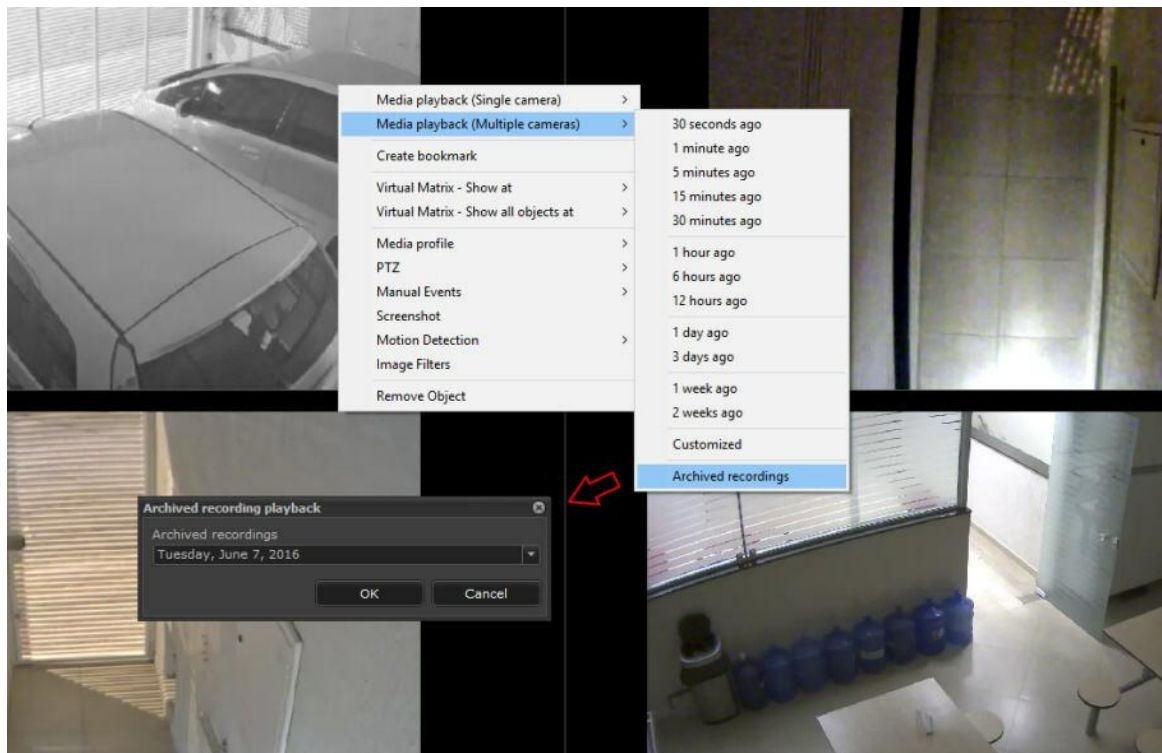
6.5 Archived Video Playback

Archived videos are considered "cold storage" and are part of the archiving system, which can be configured to copy all recordings from the day to an archiving folder.

To learn how to activate the image-archiving feature, see the **Administration Client**.

Due to the format of the archived recordings, it is only possible to playback 1 day of archiving per playback session, selecting the day available in archiving through the archived recording selector.

To view the archived image from a camera, **simply right-click** on the desired camera and then on **Archived Recordings**. In sequence, select the desired day:



Chapter



VII

7 PTZ

The Surveillance Client allows the user to control movable cameras via the PTZ feature.

Digifort offers four types of camera movement control: movement via the screen's basic and advanced controls, via table joystick, visual joystick and by click-and-center.

To move a camera, first you have to select it by clicking on the chosen camera twice creating a red strip on its upper part.

The following topics explain how the four types of camera movement work.

7.1 Movement by screen controls

Digifort offers all of the basic tools for moving a camera via screen controls. To access this feature, locate the PTZ controls in the main screen of the Surveillance Client, as shown in the picture below. These controls will only be available if a camera with PTZ support is selected.



Up, down, left, and right arrows: Move the selected camera in the clicked direction.



Central button: Activates the movement by click-and-center.

Mais zoom e menos zoom: Increases or diminishes the zoom of the selected



camera.



Sensitivity bar: This bar defines the speed at which the camera will move when executing a PTZ function. Digifort always keep the last position used by the user.

7.2 Movement by Click-and-Center

This feature makes it possible for the user to click on some point of the image in which he wants to center the image.

When clicking on the camera image, the camera will move positioning itself in such a way as to center on the clicked point.

To access this feature, select the desired camera, double-click in the image, and then click on the central button of the screen's PTZ control, as explained in the previous topic.

7.3 Movement via the Digital PTZ

The Digital PTZ was created so that it is possible to move more dynamically in fixed cameras. The Digital PTZ means a fixed camera can simulate features such as Pan, Tilt and Zoom.

In a fixed camera, the icon indicated in the picture below shows that the feature is active:



To start using the digital PTZ in a fixed camera, first start by zooming a chosen area. To Zoom, use the mouse wheel or the zoom button on the PTZ control.

When zooming, there will be a square with the whole image of the camera and a red square showing the area in the image where the zoom is working. See the picture below:



Once the zoom has started, all the Pan and Tilt options will be enabled. The Virtual Joystick can also be used with the Digital PTZ.

Another way to move the Digital Zoom is by clicking and dragging the red square (zoom area) shown in the picture above.

Chapter

VIII

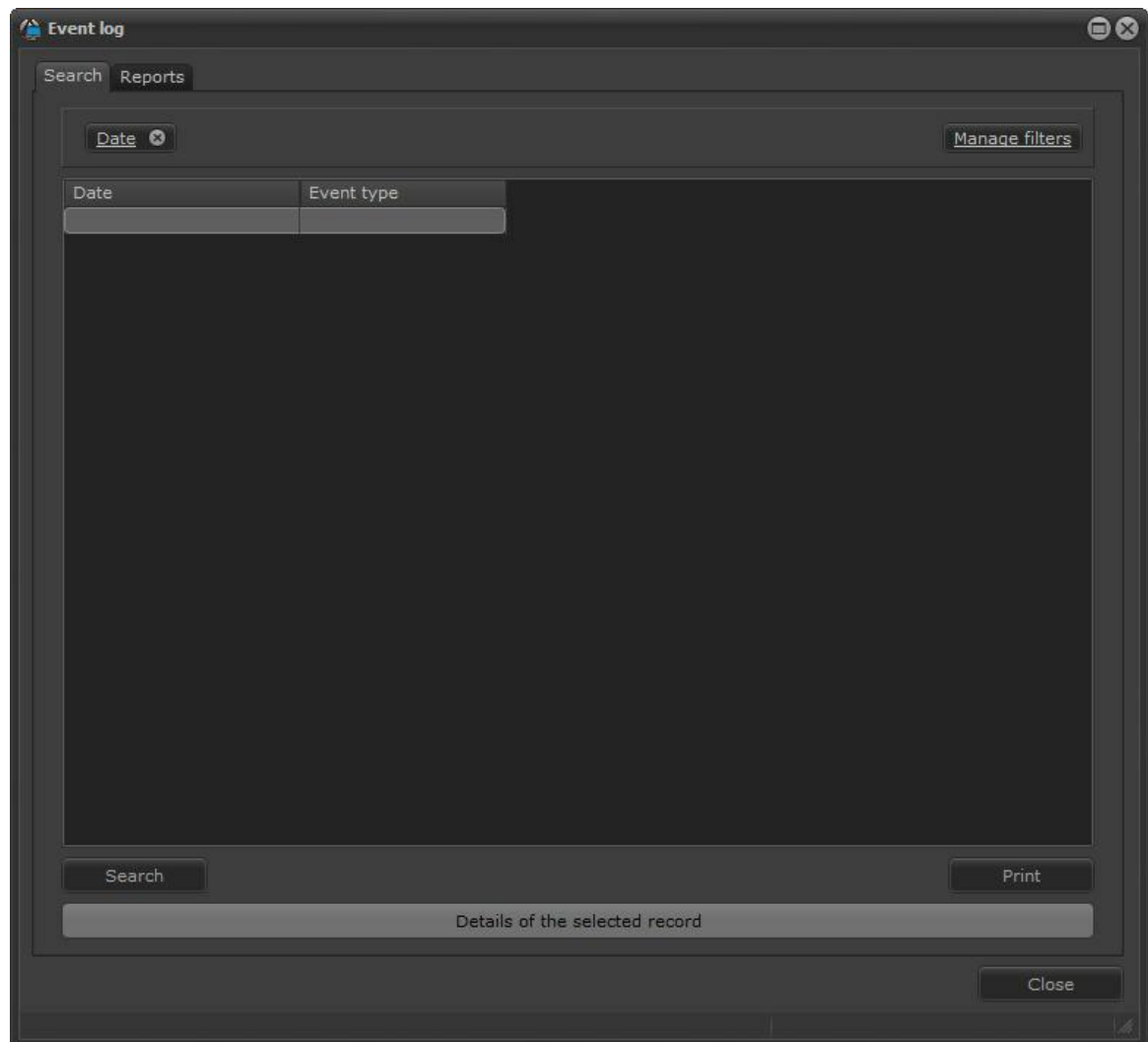
8 Event Log

The Digifort event log allows any event in the system to be quickly found, displayed and used as data to find a recording.

To open the event screen click on the button **Event log** as shown in the image below:



The following screen opens:



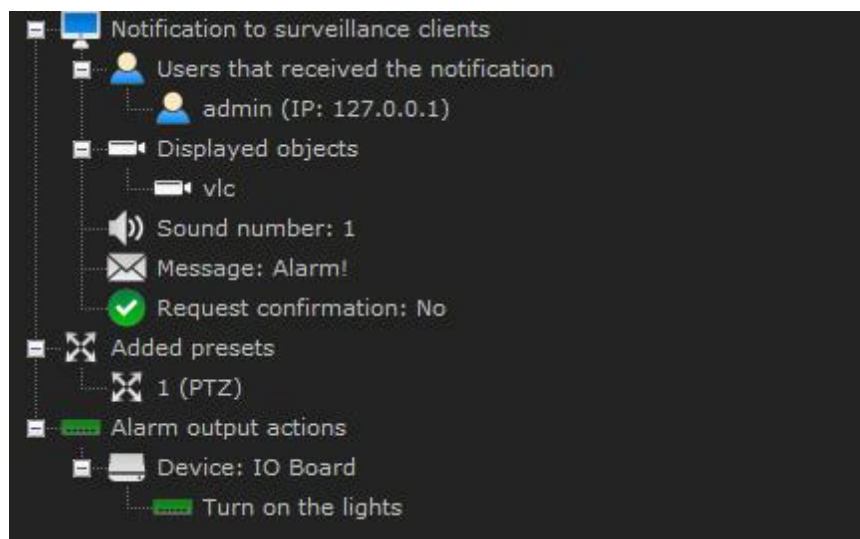
8.1 Record detail

All registered logs have the option to view the event details.

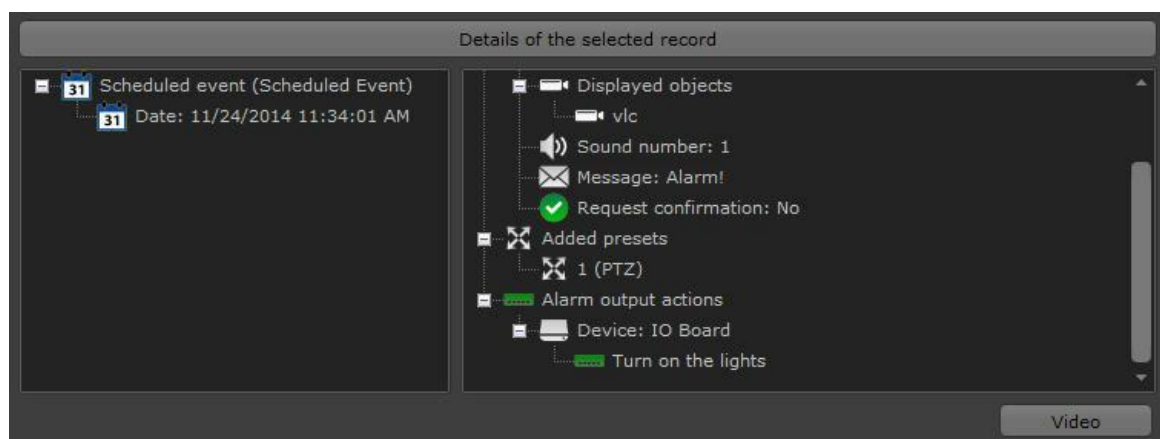
These details allow the visualization of important information.

In the square on the left in the details, there is information regarding the event itself, for example: In events involving cameras, the camera name and other concerning information as event date and time are displayed.

The square on the right shows information about the alert actions generated from the event. For example: e-mails sent, cameras shown on the screen in pop-ups, messages sent, operator response to an alert, etc. The image below illustrates a sequence of events:



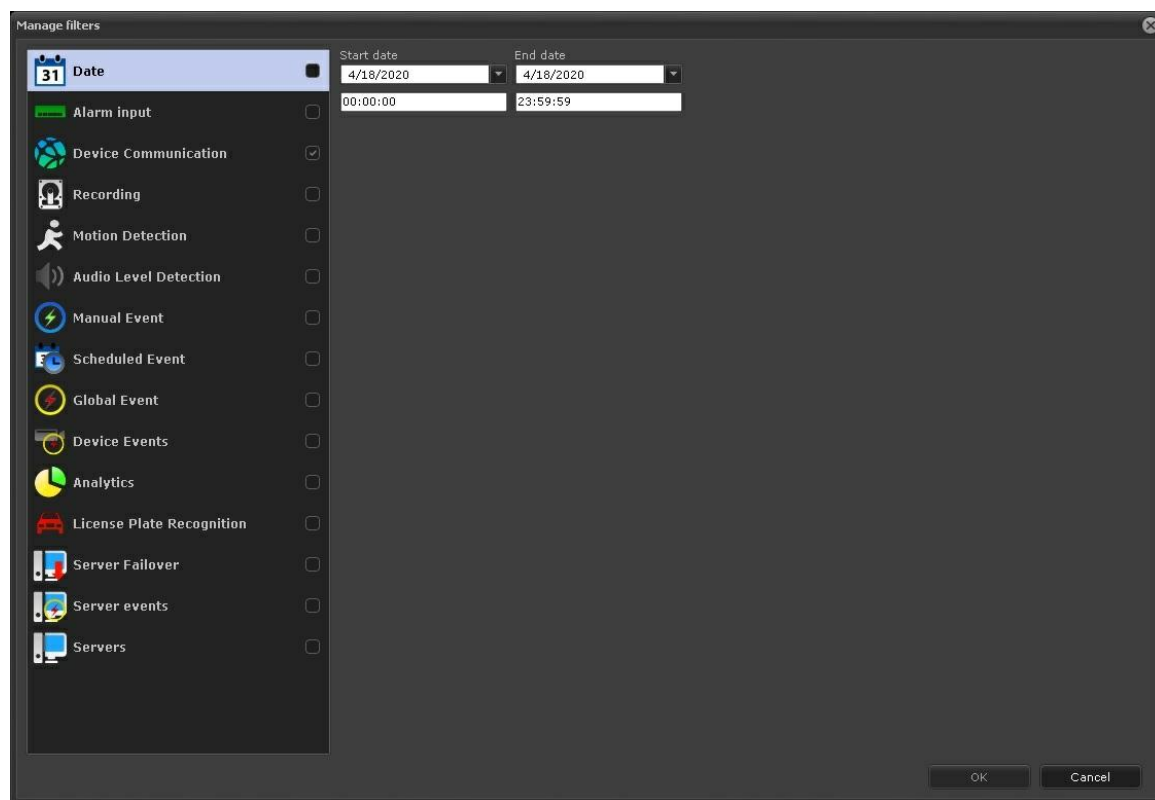
In the lower right corner, you can still trigger the video button. When you click on it, the media player opens to the video from the time at which the event occurred and the associated cameras in the event alert actions. To learn about alert actions check the Digifort Administration client manual.



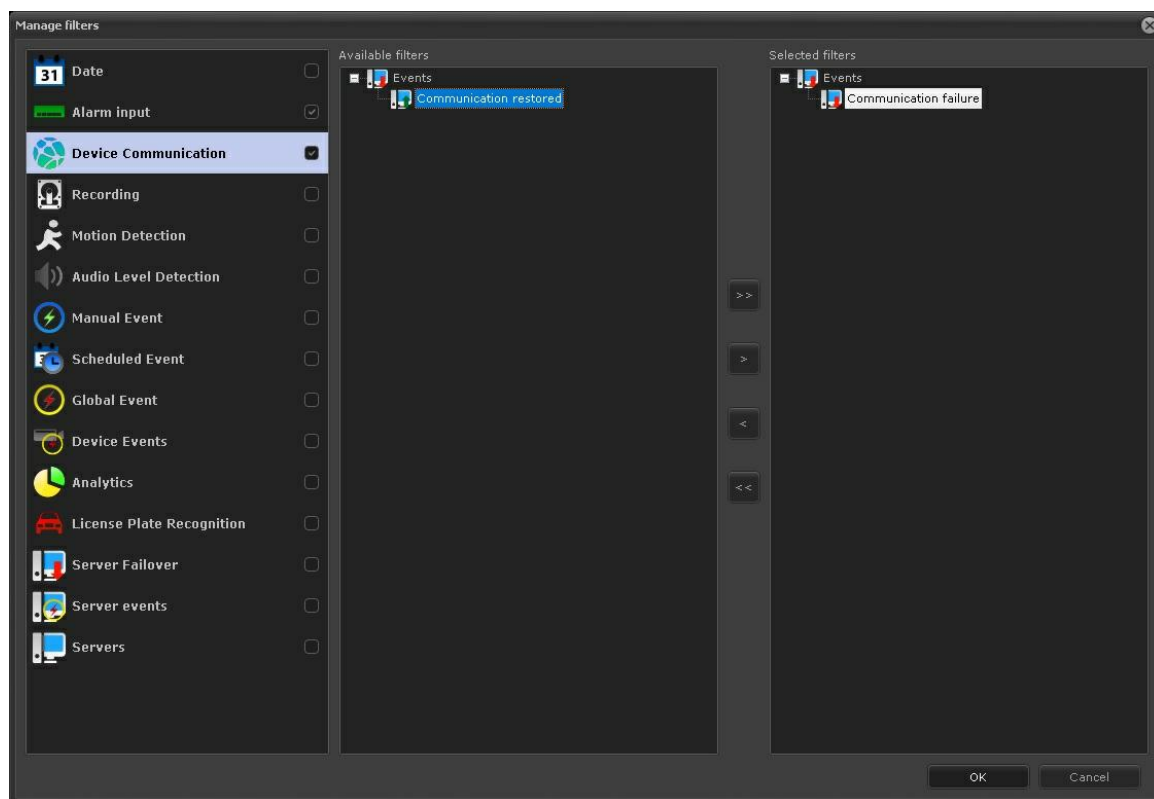
8.2 Filters

The event logs allow filters for a quick and better search for events.

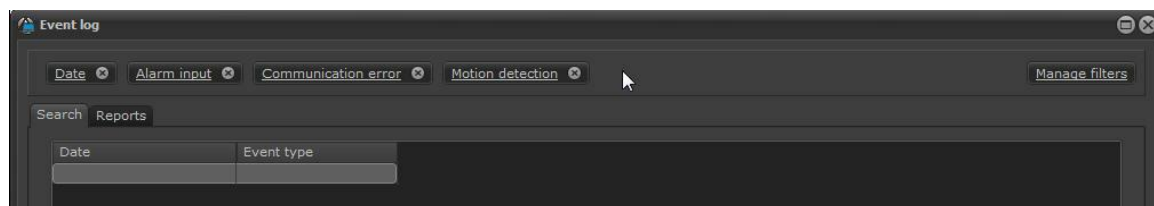
The filters can be managed from the button "**Manage Filters**" located in the upper left corner. When you click on this button the following screen appears:



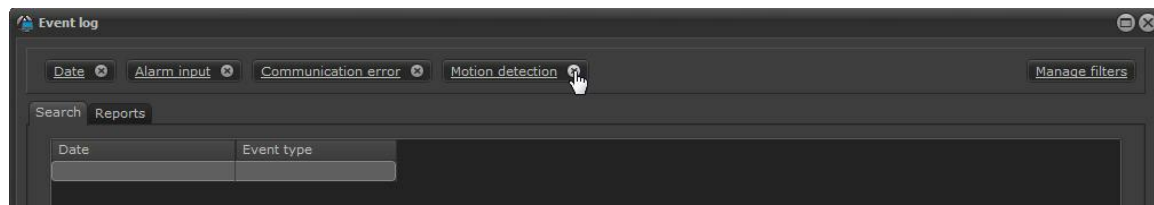
Select the "**Activate Filter**" box so it is added to the Event Log screen. For example: to activate the Communication error filter click on "**Activate filter**" and after drag the desire filter to the right and click "**ok**" as shown in the image below:



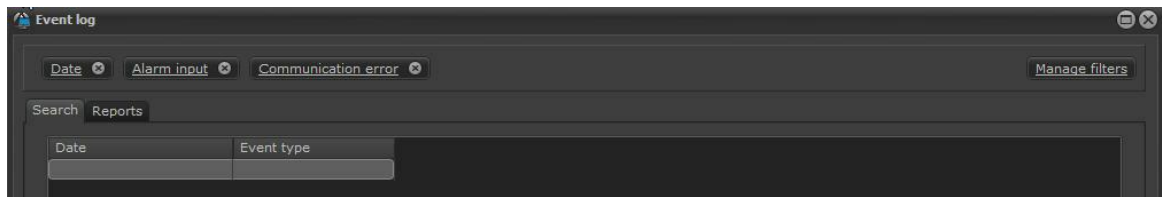
Note that filters are added on the top bar of the screen, where you can add them or delete them as you need.



To delete a filter, simply click on the close button:



The filter clicked will disappear from the filter bar:



8.2.1 Filter per date

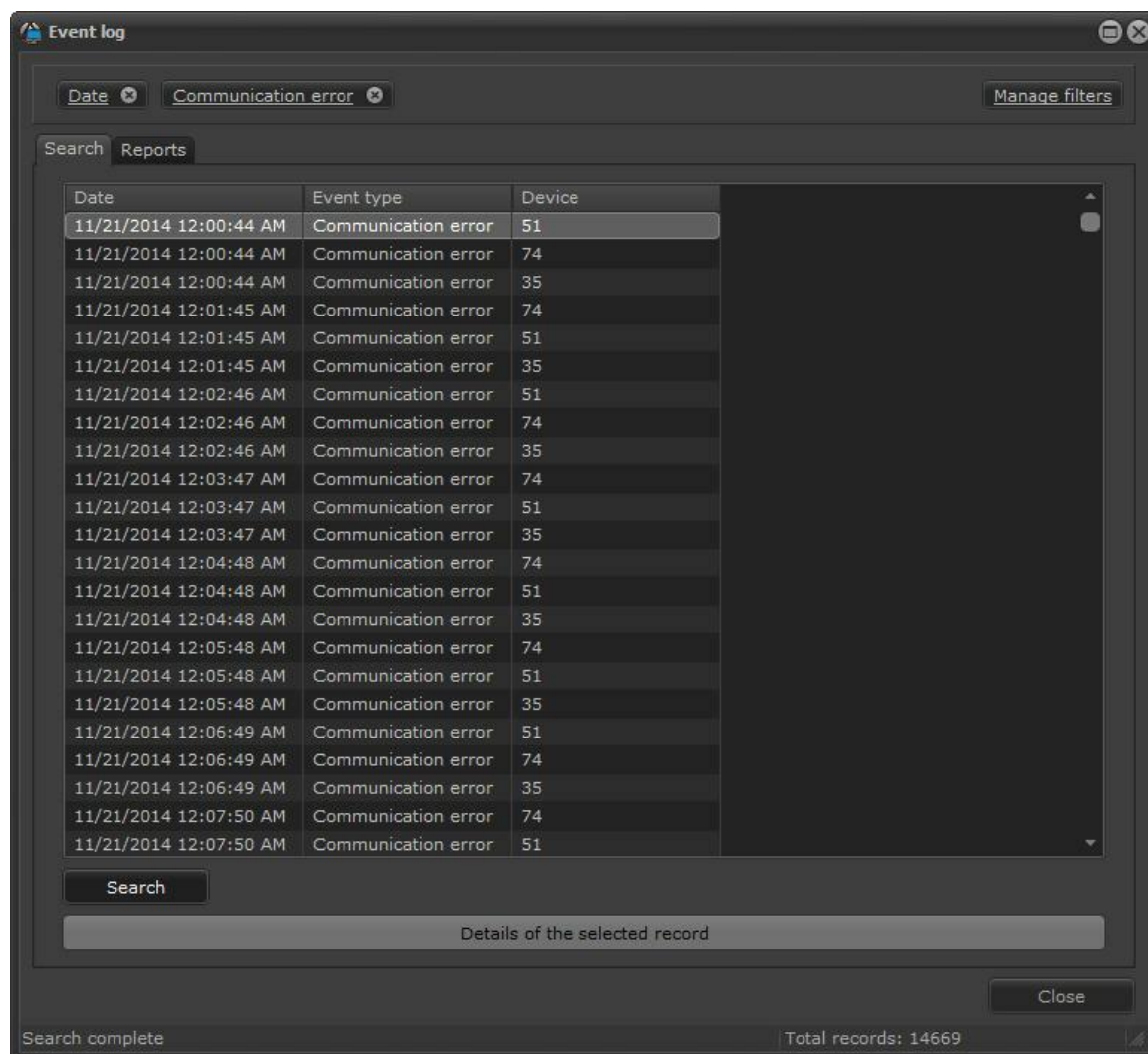
The filters that are selected intersect, that is, only the information they share will be filtered.

A screenshot of a date filter configuration dialog. It features a checkbox labeled 'Activate filter' which is checked. Below this, there are two columns of date and time selection fields. The left column is labeled 'Start date' and the right column is labeled 'End date'. The 'Start date' column has two fields: the top one shows '11/24/2014' and the bottom one shows '12:00:00 AM'. The 'End date' column has two fields: the top one shows '11/24/2014' and the bottom one shows '11:59:59 PM'. Each field has a small downward arrow on its right side, indicating a dropdown menu.

8.2.2 Filter per communication errors

The filter per communication errors searches for all miscommunications generated by equipment registered in Digifort.

The image below shows an example of search:

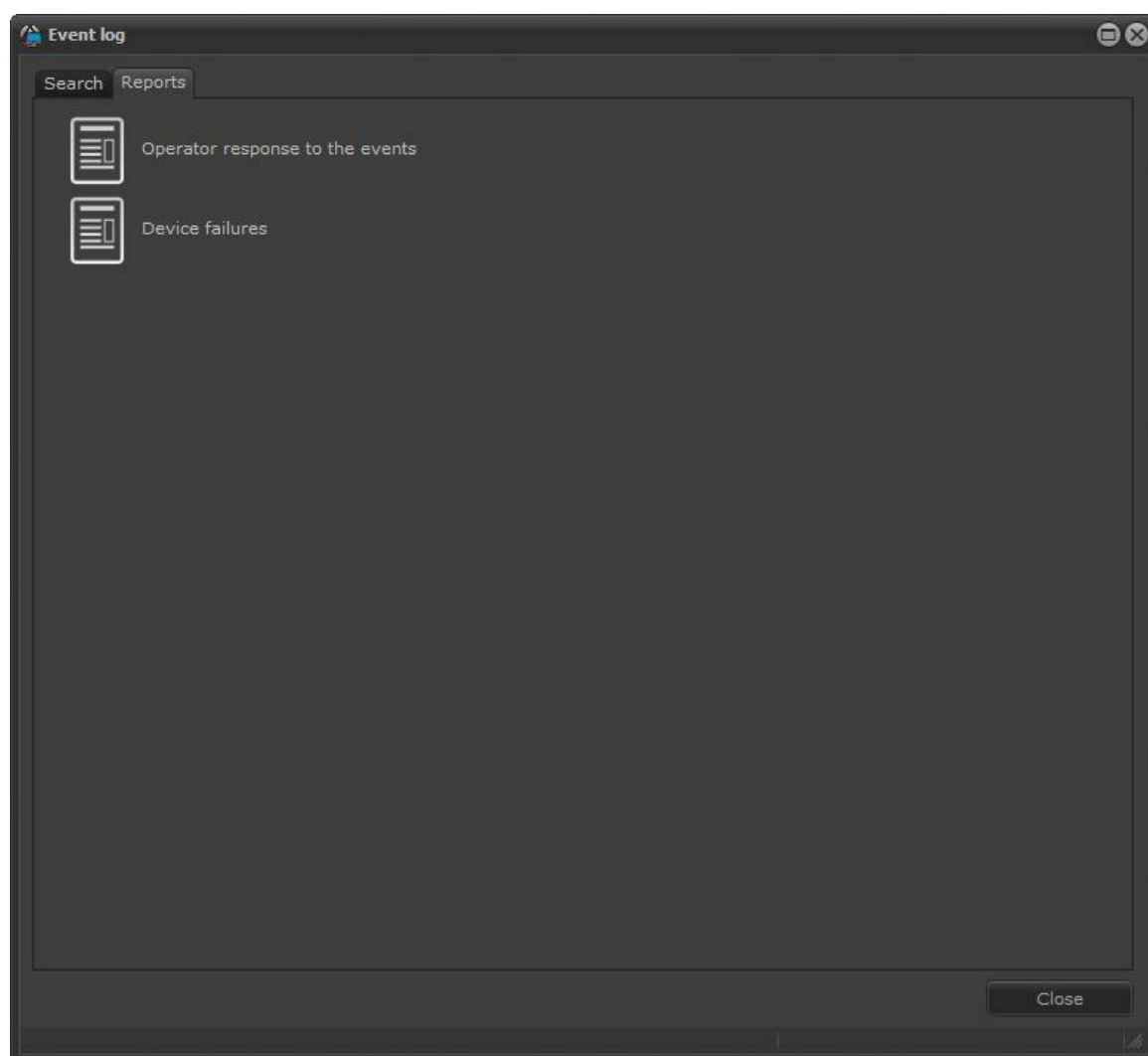


8.2.3 Filter per recording errors

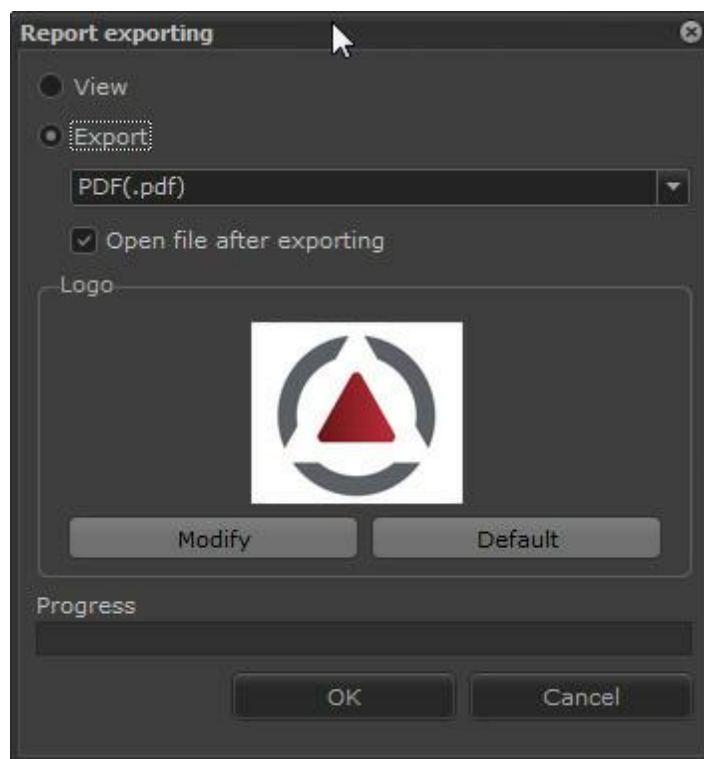
The filter per recording errors searches for all recordings errors generated by cameras registered in Digifort.

8.3 Reports

It is possible to see two types of reports on this screen: **Operators' response** to events and devices faults.



All reports can be exported to the formats: PDF, CSV, TXT, RTF, XLS and HTML.

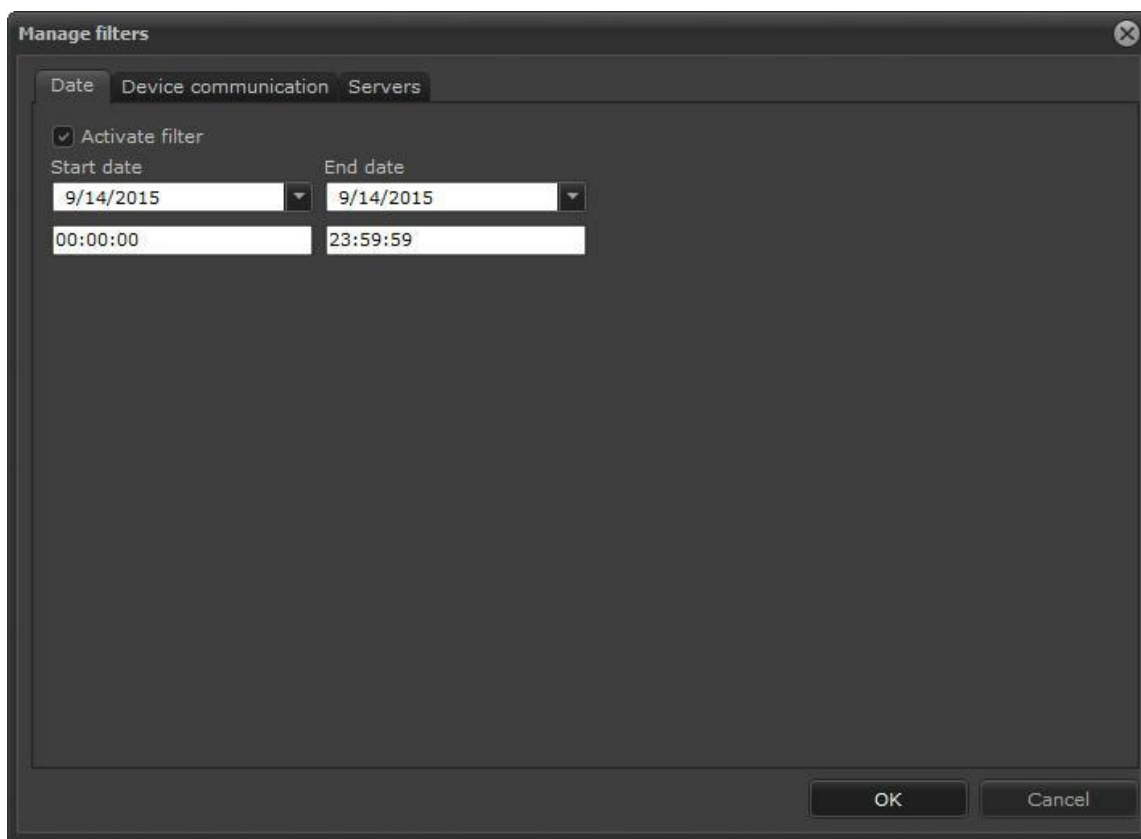


The screen allows the logo to be changed in order to customize the report. Simply click **Modify** and choose another image file.

8.3.1 Devices failure report

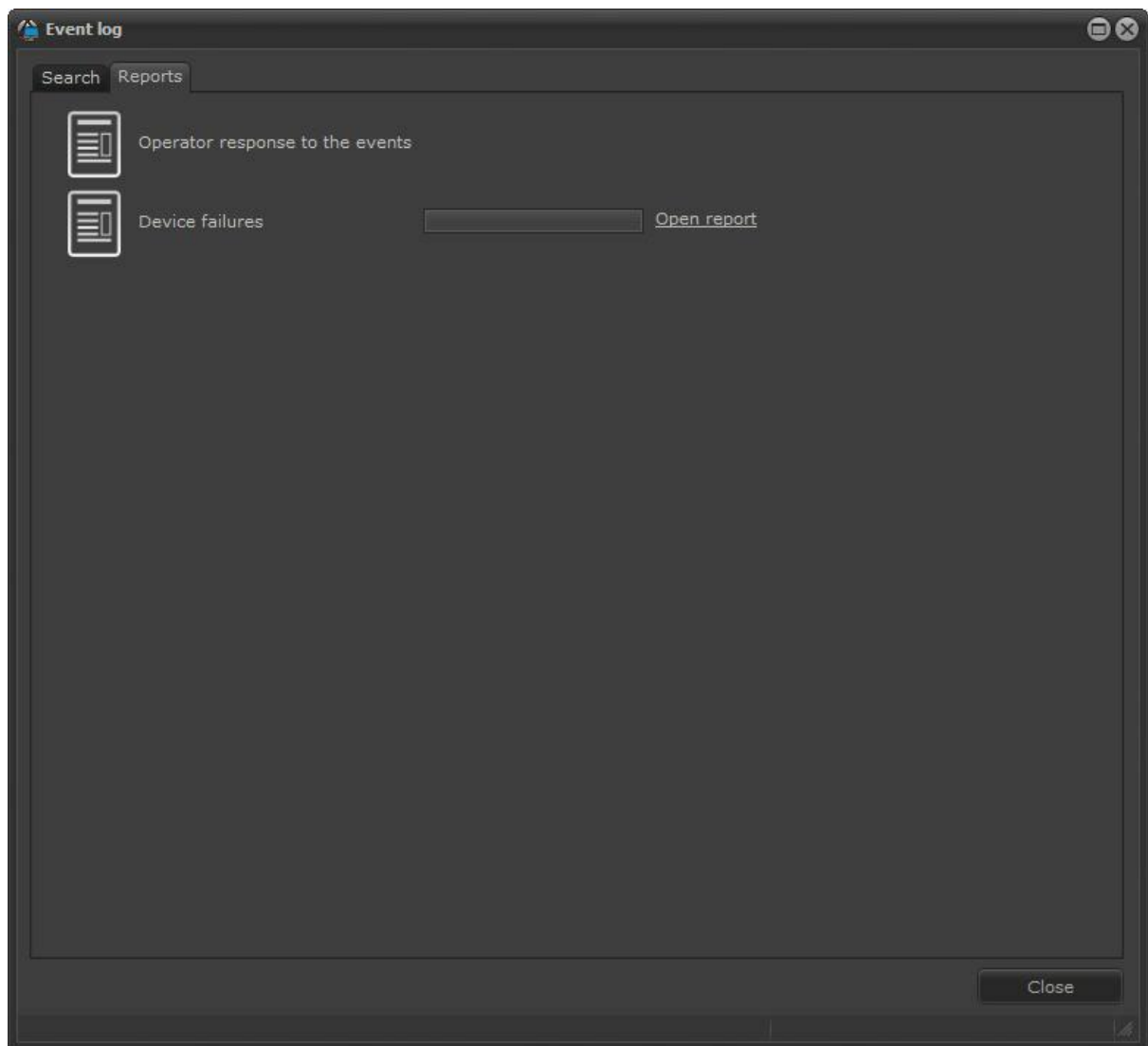
The new devices failure report will list all faults and communication recovery with the system devices, also providing the failure total time period for each device. To enable this feature, see the Administration Client manual, **Recording Server -> How to trigger a camera -> Events -> Communication**.

To generate the report, simply click the desired option. After clicking, the filter screen for the research appears:

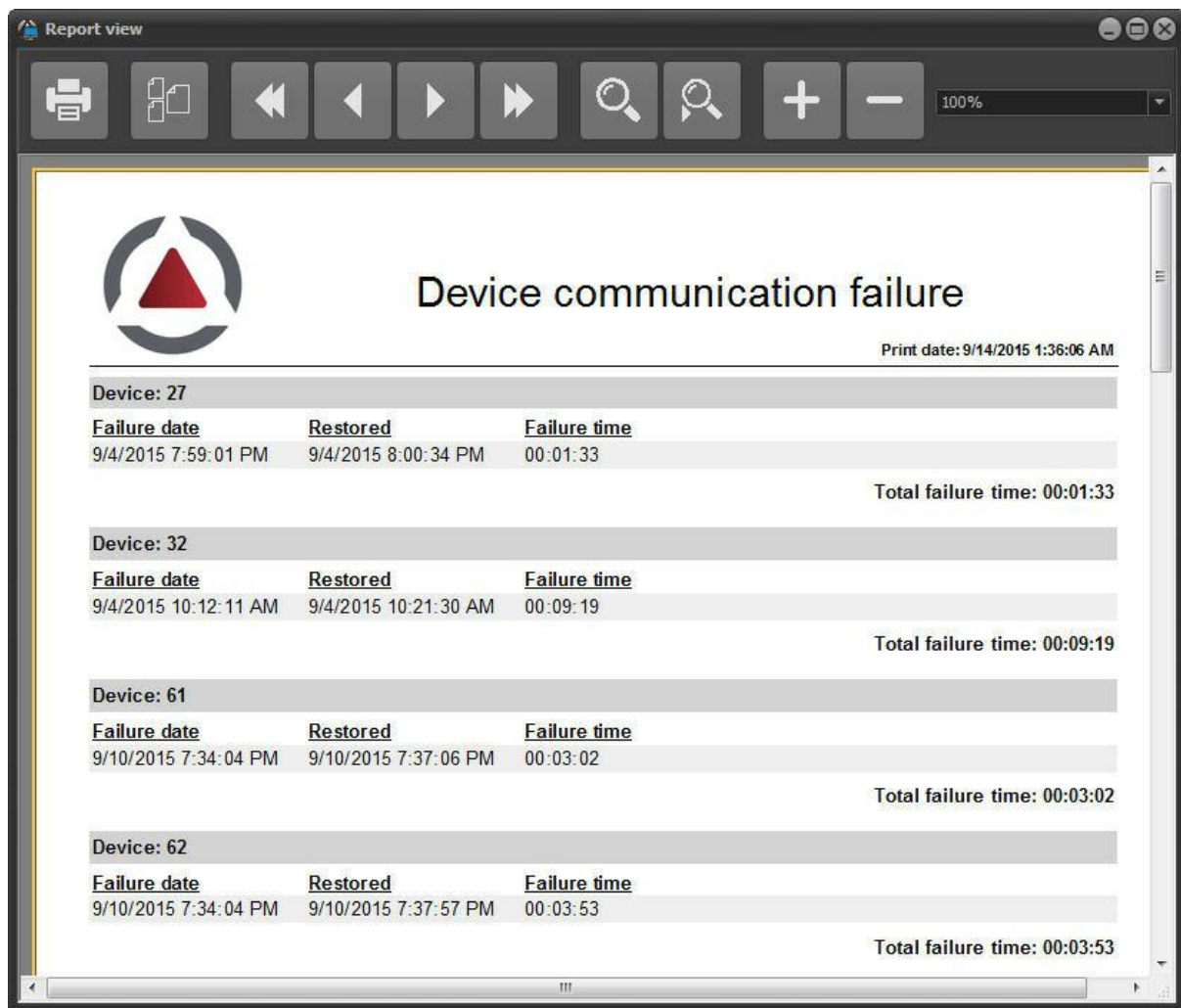


The image shows a 'Manage filters' dialog box with a dark gray background. At the top, there are three tabs: 'Date', 'Device communication', and 'Servers'. The 'Date' tab is selected. Below the tabs, there is a checkbox labeled 'Activate filter' which is checked. Underneath, there are two columns of date and time selection fields. The first column is labeled 'Start date' and contains a date field with '9/14/2015' and a time field with '00:00:00'. The second column is labeled 'End date' and contains a date field with '9/14/2015' and a time field with '23:59:59'. At the bottom right of the dialog, there are two buttons: 'OK' and 'Cancel'.

On this screen it is possible that more than one report can be generated at the same time because, depending on the amount of records, the operation may take some time.



When the report is ready to be displayed, the **Open Report** option will be available as pictured. Just click to view the report:



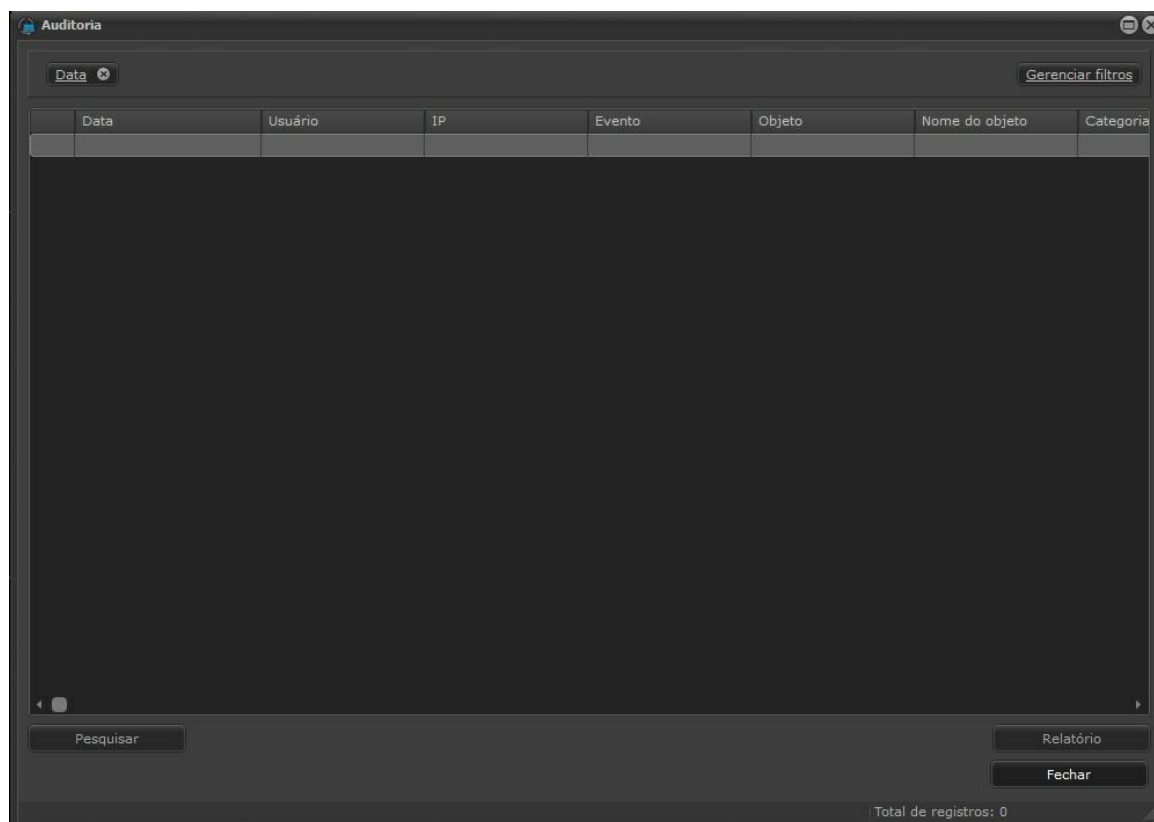
8.4 Audit Logs

Digifort's audit log allows any system event to be found quickly, viewed, and used as data to generate reports.

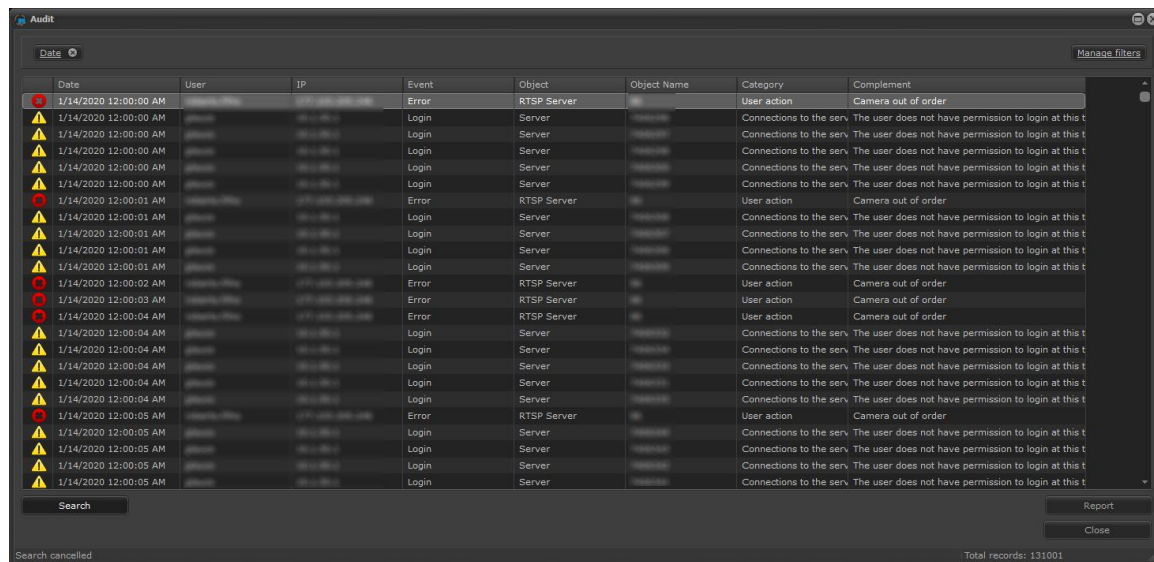
To open the audit screen, click on the Audit button, as shown in the figure below:



The following screen will be displayed:



By clicking on **search**, the current day's events will be displayed as shown in the image below:



By clicking on **manage filters**, you can filter events by the categories shown below:

- **Date:** Selects the start and end date to filter the events.
- **Category:** Selects the category of the event you want to filter. Among them are: Server connections and user actions.
- **Type of event:** It is possible to display events by their criticality. Examples: Errors, System Information and Alerts.
- **Event:** Selects the type of the event you want to filter. Example: Login events, logout events, events in which settings were modified, etc.
- **Object type:** Chooseto which device your event is related. Example: Cameras, I/O devices, server, etc.
- **Keyword:** Searches for a keyword that may be related to the events. Example: type "Carlos" to search for events related to the user Carlos.
- **Servers:** In the case of multiple servers, you can select only the server of your choice.

8.4.1 Detailed audit


The user action audit has details about changes in the system. Any change made on any object will now be registered in the audit log details. For example, if a user changes the recording directory of a camera, or the set recording time, this information will be detailed in the audit log, including the old values and the new values.

The detailed audit is applied to all system objects, including server settings, thus making the audit tool super powerful to record and identify user actions in the system.

Critical fields, such as password or binary fields (or data storage containers) that cannot be displayed in text will only be referred to as "altered", but their values will not be displayed, such as, for example, "Lens.Data" in the image below, where there are no values since it is a field stored in the binary format.

Audit Record Details

Details

 Audit Record Details

Record Date	User	IP	
1/14/2020 6:18:24 PM	admin	127.0.0.1	
Event	Object Type	Object Name	Category
Modified	Camera	01	User action

Complement

General.Directory: E:\Recordings\01\ -> E:\Recordings\01-New\
General.Memo: MAC: 00:12:23:45:67:89 -> This camera was installed for test
Lens.Data
Lens.LensType: 0 -> 1
MotionDetection.Profile.UseProfile: False -> True

Close

Chapter



IX

9 Interface Web

Digifort is equipped with a Web Server that makes it possible to monitor the server's cameras by way of an Internet navigator.

The access to the server via Web works in a similar way to the Surveillance Client, but does not have some functions such as view creation.

By web access it's possible to monitor and play back videos of any camera to which the user has the right.

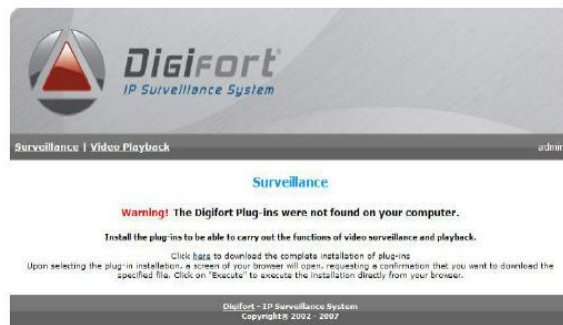
9.1 How to access the Web Server

To access the Web Server of Digifort, open your Internet navigator and in the address field, enter the IP address or DNS of the server that you want to access, opening the authentication screen, as shown in the picture below.



In this screen, enter your user name and password as defined by the administrator in the Administration Client.

If this is your first access, a screen will be displayed for the installation of the plug-ins of surveillance and video playback, as shown in the picture below.



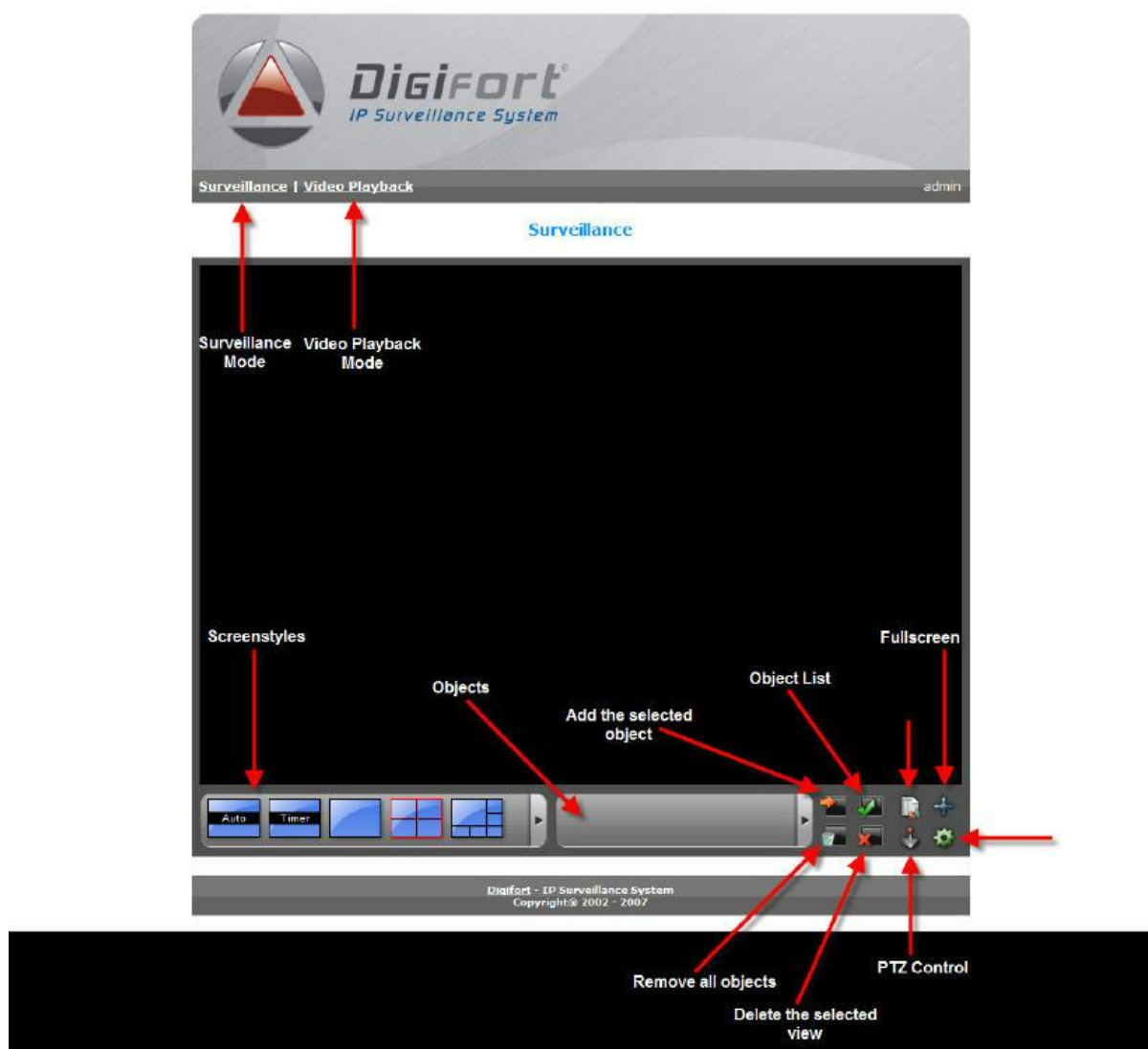
In this screen, there are three installation links. Install the most convenient package:

- Click here to download the complete installation of the plug-ins: Install the plug-ins of surveillance and video playback.
- Click here to download only the installation of the plug-in of surveillance: Installs only the plug-ins of surveillance. It will not be possible to play recorded videos back.
- Click here to download only the installation of the plug-in of video playback: Installs only the plug-ins of video playback. It will not be possible to monitor the cameras live.

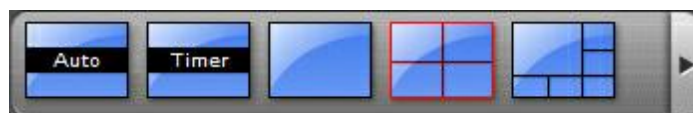
After selection of the desired plug-in option, a screen of your navigator will open, requesting a confirmation that you wish to download the specified file. Click on "EXECUTE" to execute the installation directly from your browser.

9.2 Monitoring via web access

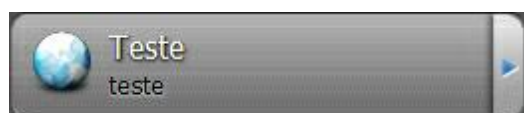
After installing the surveillance plug-ins, as explained in the previous topic, click on Surveillance, located in the gray strip, under the Digifort logo.



The surveillance web interface of Digifort offers the following functions:



Screenstyles: Digifort Standard comes with eight screenstyles.



Objects Selection Screen: Open the screen with all of the objects in the system.

9.3 Playing videos back via web access

After installation of the video playback plug-ins, as explained in the previous topic, click on Video Playback, located in the gray field, under the Digifort logo and right afterwards on Start to open the video playback screen.



The functioning of the video player is identical to the video player of the Surveillance Client, explained on [Video Playback](#)⁶¹.

