

Bosch Video Client



en Operator's manual

Bosch Video Client Table of Contents | en 3

Table of Contents

1	Introduction	6
1.1	System requirements	6
1.2	Software installation	6
1.3	Conventions used in the application	6
2	Start-up and configuration	8
2.1	System overview	8
2.1.1	Live viewing and Playback application	8
2.1.2	Configuration Manager	8
2.2	Start-up	8
2.3	Configuration wizard	9
2.4	Configuration Manager	11
2.4.1	Video Client	11
2.4.2	Installing licenses	13
2.4.3	Saving the configuration	13
2.5	How to Log on	14
3	Live window overview	15
3.1	Basic overview	16
3.2	Toolbar icons	17
3.2.1	Playback	17
3.2.2	Setting user preferences	18
3.2.3	Sequencing views	19
3.2.4	Selecting quick display modes	19
3.2.5	Text viewer pane	19
3.2.6	Cameo window display	19
3.2.7	Maximize video display	19
3.2.8	Audio	19
3.2.9	Volume control	19
3.2.10	Configuration	19
3.2.11	Log off	19
3.2.12	Help	19
3.3	Favorite views and video device list panes	20
3.3.1	Favorite views pane	20
3.3.2	Video device list pane	21
3.3.3	Device icons	21
3.4	Relays and contacts pane	22
3.4.1	Output relays	22
3.4.2	Input contacts	22
3.5	Cameos	23
3.5.1	Cameo context menu	23
3.6	Text view pane	24
3.6.1	Exporting text	24
3.6.2	Clearing and closing the text pane	24
3.7	Status tabs	25
3.7.1	Logbook	25

4 en T	Table of Contents	Bosch Video Client
3.7.2	Export job	25
4	Viewing live images	26
4.1	Selecting favorite views	26
4.1.1	Selecting views	26
4.2	Making quick views	26
4.2.1	Display mode	26
4.2.2	Populating the cameos	26
4.3	Camera status icons	27
5	Setting up favorite views	28
5.1	Making a view	28
6	Live recording	29
6.1	Recording live video to the PC hard disk	29
7	Saving snapshots	30
7.1	Capturing a still image	30
8	Instant playback	31
8.1	Viewing recorded video	31
9	Monitor wall	32
9.1	Adding cameras and views	32
10	Controlling cameras	33
10.1	Digital zoom	33
10.2	PTZ cameras	34
10.2.1	Mouse control	34
10.2.2	Control console	34
11	Playback window	36
11.1	Playback toolbar	37
11.1.1	Selecting single or multiscreen views	37
11.1.2	Text viewer pane	37
11.1.3	Cameo window display	37
11.1.4	Maximize video display	37
11.1.5	Audio	37
11.1.6	Volume control	37
11.2	Selecting camera recordings	38
11.3	Timeline	39
11.3.1	Context commands	40
11.4	Playback controls	41
11.4.1	Using the playback controls	41
11.5	Exporting recorded video clips to a PC hard disk	42
11.6 11.7	Taking snapshots Search tabs	42 42

Bosch Video Client		Table of Contents en 5	
11.8	Playing stored files	43	
11.8.1	Exported video clips	43	
11.8.2	Archived snapshots	43	
12	Searching for events	44	
12.1	Event search pane	44	
12.1.1	Setting the search period	44	
12.1.2	Track selection	44	
12.1.3	Event filter	44	
12.1.4	Start search	45	
12.1.5	Search results	45	
13	IVA search	46	
13.1	IVA search pane	46	
13.1.1	Algorithm selection	46	
13.1.2	Start search	46	
13.1.3	Search results	46	
14	Searching for text	47	
14.1	Text search pane	47	
14.1.1	Setting the search period	47	
14.1.2	Track selection	47	
14.1.3	Text filter	47	
14.1.4	Start search	48	
14.1.5	Search results	48	
15	Command line start	49	
15.1	Sites parameter	50	
15.1.1	XML file structure	50	
15.1.2	Sites views pane	51	
	·		

6 en | Introduction Bosch Video Client

1 Introduction

The Bosch Video Client is a PC application for live viewing, control, search and playback facilities for any camera connected to the network.

Remote control functions include pan, tilt, and zoom control of cameras (including full AutoDome control). The on-line status of the connected units is provided and you can access the Configuration Manager to set up a unit or configure your system.

The Forensic Search tool, which is an integral part of the Bosch Video Client, provides a powerful means of searching recorded material for Intelligent Video Analysis (IVA) events.

1.1 System requirements

Operating platform: A PC running Windows XP SP3, Windows Vista SP2 or Windows 7.

The **recommended** PC requirements are:

Processor: Intel Pentium DualCore, 3.0 GHz or comparable

RAM memory: 2048 MBFree hard disk space: 10 GB

- Graphics card: NVIDIA GeForce 8600 or higher

Video memory: 256 MB

Network interface: 100/1000-BaseT

1.2 Software installation

- 1. Insert the product disk into the optical drive of the PC;
 - The installation program should start automatically.
- 2. If installation does not start automatically, locate the **BVC_installer.exe** file on the disk and double-click it.
- 3. Follow the instructions on the screen to complete the installation.

Note:

Software updates are released periodically. Check the Bosch Security website for the latest version.

1.3 Conventions used in the application

Interpreting icon colors

- Disabled functions are shaded.
- Active selections are highlighted in yellow in the live window and in light blue in the playback window.

Calendar window

The calendar window is displayed after clicking the calendar icon in windows where a date must be filled in.

- Click the arrow keys to change months.
- Click a date to return to the date box with the selected value filled in.
- Press Esc on the keyboard to leave the window without changing the date.

Lists

- In lists, click a column header to sort the list according to that column item.
- Click a second time to sort the list in reverse order.
- Use the scroll bars to scroll long lists.

Bosch Video Client Introduction | en 7

Expand/collapse lists

In the device tree or favorites panes, the tree structure shows a + or a - next to an icon. Click the + to expand the list; click the - to collapse the list.

Multiple selection

To select multiple items, select a single item, and then hold down the CTRL key whileyou click other items that you want to select.

8

2 Start-up and configuration

2.1 System overview

The Bosch Video Client consists of the following components:

- Live viewing and Playback application
- Configuration Manager

2.1.1 Live viewing and Playback application

This application provides two windows; one for live viewing and camera control, and one for playback of recordings and exports.

2.1.2 Configuration Manager

The Configuration Manager application can be opened via an icon in the Live viewing and Playback application. The Configuration Manager allows the user to configure the system setup and to set the configuration settings for supported devices. (A wizard that helps with the initial configuration of a system can be activated by clicking **Configuration Wizard** in the **Tools** menu of the Configuration Manager.)

2.2 Start-up

Starting the program

When installation is complete, double-click the Bosch Video Client icon on the desktop to start the program. Alternatively, start the application via the Start button and the Programs menu (path: Start/Programs/Bosch Video Client/Bosch Video Client).

Starting the first time

When the program is started for the first time, a wizard opens to help you detect and configure devices on the network. Follow the steps in the wizard to set up the Bosch Video Client for first-time use.

Command line start

The program can also be started from the command line with additional parameters. For more information refer to Section 15 Command line start, page 49.

2.3 Configuration wizard

The configuration wizard is a quick way of setting up the most important parameters for the system for a first-time installation. The parameters shown in the wizard are a subset of all the parameters that can be set in the System/Applications/Video Client menu of the Configuration Manager.

When the wizard opens it guides you through the configuration process in eight steps. Click **Next** and **Back** to navigate through the wizard.



Passwords

Enter (and confirm) universal, system-wide passwords for three user groups (leave the fields empty if you do not wish to do this).

The passwords for the system user levels are mapped to the system components. When accessing a device, for example, the password for **administrator** is used for access level **service**, while the password for **operator** is used for access level **user**.

Authorization level	Configuration Manager	BVIP device
Highest	administrator	service
Medium	operator	user
Lowest	live	live



Recorder

Select whether to record locally on the devices (for example, to an SD card) or to use a VRM recorder

To record using a recorder, enter the relevant IP address or select the address of a configured recorder from the list.



Device Selection

All devices detected in the network are listed. If you think that a device is missing click **Update**.

All devices with a check mark will be configured (allocated an IP address). If you do not wish to configure a device using the wizard, click the box to remove the check mark.

Devices marked with a green square are already allocated to a VRM recorder. If these are deselected the allocation is broken and the associated recordings are deleted.

Not all devices support IP address configuration via DHCP. If required, configure these devices manually.



Network

Select **Use DHCP** if all devices support DHCP and you want to assign IP addresses automatically.

Alternatively, enter an IP address range. This range must provide sufficient IP addresses for all the devices to be configured.



Date and Time

Select whether the date and time are to be taken from the settings on your PC or from an SNTP server. If necessary, reset the system time and date on your PC or enter the IP address of an SNTP server.



Video Quality

Use the slider to select the quality of the video for all devices. The relevant settings for each device are made automatically. Set a bandwidth limit if required.



Recording

Create a uniform recording scheduler for all devices. Define three recording profiles (Day, Night and Weekend) by selecting a recording mode (Continuous, Motion or Off) and setting the quality slider. Fill the weekly recording calendar with these profiles. If no recordings are to be scheduled, you must select **Off** mode for every recording profile.



Summary

A summary of the selected settings is displayed. If you want to change the settings, click **Back** to go back step by step in the wizard.

Click **Apply** to configure the devices according to the selected settings; click **Cancel** to cancel the wizard.

2.4 Configuration Manager

When the wizard finishes, the Configuration Manager opens.

- 1. Click the **System** tab.
- 2. Under Applications, click Video Client.

This is where you can change the default settings for the Bosch Video Client.

2.4.1 Video Client

Use the following menus are configure the Bosch Video Client:

- 1. In the **User Management** menu, set user accounts, user passwords, and access rights if required.
- 2. In the **Cameras** menu, verify that the correct cameras are selected and that they are in the correct order, and assign access rights.
- 3. In the **Digital Inputs** menu, verify that the correct inputs are selected and that they are in the correct order, and assign access rights.
- 4. In the **Relays** menu, verify that the correct relays are selected and that they are in the correct order, and assign access rights.
- 5. In the **Applications** menu, set the storage paths for the Bosch Video Client and manage licenses.

Implementing User Administration

If you define a password for **administrator**, this will have to be entered every time the database is opened.

To create users and define user rights:

- 1. Select the **User Management** group.
- To create an additional user, click Add....
 A dialog box appears.
- 3. Enter the user name and password.
- 4. To define individual user rights, select the relevant entry in the list of created users and activate or deactivate the required options under **Rights**:
- 5. To remove a user, select an entry in the list of created users and click **Remove**.

Selecting components and assigning rights

- 1. Select the **Order** tab under either the **Cameras**, **Digital Inputs** or **Relays** group.
- 2. Check those components you want listed in Video Client.
 The sort order of these lists matches that in Video Client.
- 3. Click the **Top**, **Up**, **Down** and **End** buttons to change the position of a selected component within the list.
- Select the Access tab under either the Cameras, Digital Inputs or Relays group.
 Each user is assigned the highest authorization level by default.
- 2. To change a user's access rights, left-click the relevant table cell until the desired authorization level is selected.
- 3. To assign a user the same authorization level for all components, or vice versa, right-click the relevant column or row header and select the desired authorization level.

Camera Access

	PTZ configuration	The user can configure the PTZ settings
	PTZ control	The user can control the camera
	View only	The user can watch videos
	Access denied	The user has no access to the camera
Digital	l input access, Relay access	
	Control allowed	The user can control the component
	View only	The user can see the component
	Access denied	The user has no access to the component

Selecting application paths and logging

- 1. Select the **Application** tab of the Application group.
- 2. Select the path to the folder to which Video Client will export manual recordings. If you do not enter anything here, the following default setting is used: %current user%\My Documents\Bosch\VideoClient\Recording.

 Define the maximum hard disk space in GB to be used for manual recordings. If you do
 - not enter anything, 10 is used.
- Select the path to the folder in which the logs are to be saved. If no entry is made, no user actions can be logged.
 Select if user actions are to be logged.
- 4. Select the Intuikey communication port.

Licenses

On the **Licenses** tab of the Application group you can find information on the licensing of camera channels in the Bosch Video Client. A Bosch Video Client installation has 16 camera channels as standard. You can enable additional channels by purchasing a license.

The host ID displayed here is needed to install a license for additional camera channels. The number of enabled camera channels is shown. Click **Add License...** to open a dialog box for the installation of additional licenses.

2.4.2 Installing licenses

Follow these steps to install a license for the Bosch Video Client:

- 1. Order a license you will receive an authorization code.
- 2. Go to the Licenses tab of the configuration manager to determine the host ID of your computer.
- 3. Log on to the Bosch license manager (https://activation.boschsecurity.com/) using your authorization code.
- 4. Fill-in and submit the license activation data (including your host ID).
- 5. Enter an e-mail address to receive the activation code.
- 6. Save the license key file from the received e-mail to your hard disk.
- 7. Go to the Licenses tab of the configuration manager and click Add License...
- 8. Navigate to the license key file on your hard disk and click **Open**.
- 9. Check that the license has been activated.
- 10. Save your configuration and restart BVC.

2.4.3 Saving the configuration

When finished:

- 1. Click | to save the configuration.
- 2. Close the Configuration Manager

_

2.5 How to Log on

After some time the Bosch Video Client log-on window appears.

When the application is started, the **Log on** window appears. The user name and password boxes are blank.

To log on:

- 1. Type a user name and password:
- 2. Click Log on.
 - Check with the administrator if access is denied to the unit.

Note:

When no user name and password settings are entered or modified in the wizard or Configuration Manager, you can log on using the user name **administrator** and no password.

Bosch Video Client Live window overview | en 15

3 Live window overview

The live window appears when you start the application.

In the live window you can:

- view live video
- select different multiscreen displays
- set up favourite views
- assign cameras to cameos
- open an instant playback window of the active cameo
- record a camera video clip to the PC hard disk
- capture a still frame snapshot of the active cameo
- configure a monitor wall
- control PTZ cameras
- monitor unit status and alarm conditions

Note:

If you are in the playback mode, click to switch to the live window.

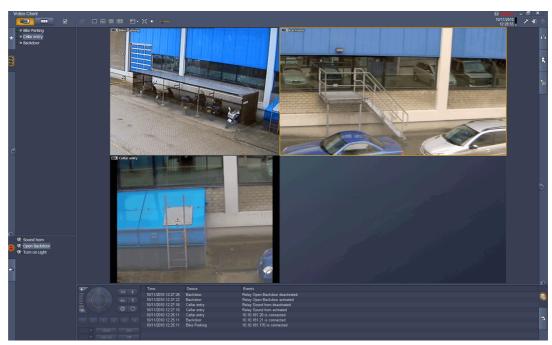


Figure 3.1 Typical live window

16 en | Live window overview Bosch Video Client

3.1 Basic overview

The control areas of a basic live window are shown below.



Figure 3.2 Basic live window

0	Toolbar	Contains icons for various functions (see below).
0	Video display area	Displays the video cameos.
3	Task panel	Click the tabs to open or close task panes for view designer, image capture, instant playback, and monitor wall.
4	Operational panel	Click the tabs to open a pane containing the camera control console, and the status pane or the export status pane.
6	System panel	Click the tabs to open the Favorites views or Video device list panes and the relay or input panes.

Bosch Video Client Live window overview | en 17

3.2 Toolbar icons

	Live viewing	Switches the application window to the live view (yellow highlighting).
-	Playback	Switches the application window to the playback view (blue highlighting).
	User preferences	Displays a dialog box for setting user preferences.
ð	Sequencing	Starts a sequence of cameo views.
□ ⊞ ⊞	Quick display modes	Contains icons to select a cameo layout.
	Text viewer	Opens the text viewer pane.
	Cameo window display	Selects how the cameos are displayed; with a top bar, with a camera name, or with no information, and with or without VCA overlay.
Ħ	Maximize video area	Maximizes the video display area.
∢ ×	Audio control	Mutes the audio
-!-	Volume control	Adjusts the audio volume.
1	Configuration manager	Opens the Configuration Manager application in a separate window.
4 1	Log-off	Closes the application and returns to the log on window.
②	Help	Opens the on-line help.

3.2.1 Playback

Click to open the playback window. Get a graphical timeline overview of all recordings, or search for recordings based on events and play them back.

18 en | Live window overview Bosch Video Client

3.2.2 Setting user preferences

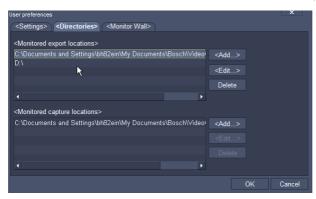
To change the user preferences for the application, click to open a dialog box:

Settings tab:

- 1. Place a check mark next to the items to be activated.
 - The computer beeps on the specified alarms or maximizes the application window.
- 2. Select a sequence dwell time between 5 and 60 seconds to determine how long a sequenced view remains displayed.
- 3. Select an instant playback time offset between 5 and 120 seconds.

Directories tab:

- 1. Enter the locations that will be monitored for exported recordings.
- 2. Enter the locations that will be monitored for exported snapshots.



Monitor wall tab:

- 1. Drag the available monitors to a position on the monitor wall graphic.
- 2. Alternatively, use the arrows to place or remove the monitors.



Click **OK** to save changes and close or **Cancel** to close the window without change.

Note:

These settings are saved for the user who is logged on and are applied each time this user logs on with the same computer.

Bosch Video Client Live window overview | en 19

3.2.3 Sequencing views

The sequence icon is enabled when a view with multiple cameos is selected or when multiple cameras or views are selected.

To select the sequence mode:

- Select a view and click to start sequencing the cameras within that view in a single cameo display.
- Select multiple views and click to start sequencing between the views and not within the views.

3.2.4 Selecting quick display modes

To switch the display mode, click a cameo view icon to change the layout configuration of the live viewing area:

- Single cameo
- 2x2 cameos
- 3x3 cameos
- 4x3 cameos

3.2.5 Text viewer pane

Click to open the text viewer pane. Live text from a DVR camera is displayed in the pane.

3.2.6 Cameo window display

Click and select the items you want displayed in the cameo window; a title overlay, a title bar, or no information. Select to show or hide the VCA overlay.

3.2.7 Maximize video display

Click \bowtie to maximize the video display area. Click the icon again on the auto-hide toolbar at the top of the screen to switch back to normal mode, or use F10 to switch between modes.

3.2.8 Audio

Click to enable or disable audio output. When enabled, the audio of the selected cameo is heard, if available.

3.2.9 Volume control

Click to adjust the audio volume.

3.2.10 Configuration

Click / to open the Configuration Manager application (administrator only).

3.2.11 Log off

Click ¶ to close the application and return to the log on window.

3.2.12 Help

Click ② any time to get help on all topics. A pop-up help window appears.

20 en | Live window overview Bosch Video Client

3.3 Favorite views and video device list panes

Two side tabs are located on the top left of the application window:

Click to open the favorite views pane.

- Click to open the video device list pane.

3.3.1 Favorite views pane



Figure 3.3 Favorite views pane

The favorites pane shows the various views that have been made in the view designer:

- Double-click a view to see it in the live video area or drag one or more views to the live video area.
- Click + to expand a view and see the devices and cameras assigned to it; click to collapse the view.
- Right-click a view to open a context menu with the following commands:
 - Sequence
 - Save View
 - Delete view
 - Rename view
 - Properties
- Right-click a device to open a context menu with the following commands:
 - Connect
 - Disconnect
 - Sequence
 - Properties (including name, type and IP address)

Note:

If the application was started from the command line with the *sites* parameter, then the favorites tab is replaced by the sites tab. Refer to *Section 15 Command line start, page 49* for more information.

Bosch Video Client Live window overview | en 21

3.3.2 Video device list pane

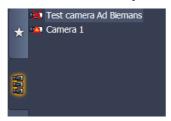


Figure 3.4 Video device list pane

The video device list pane shows all configured devices (these devices can be put into groups in the Configuration Manager):

- Click + to expand a group and see the devices and cameras assigned to it; click to collapse the group.
- To see a device in the live video area, double-click it or drag the device to a cameo.
- To see multiple devices in the live video area, select the devices and drag them to the live video area.
- Right-click a device to open a context menu with the following commands:
 - Connect
 - Disconnect
 - Sequence
 - Properties (including name, type and IP address)

3.3.3 Device icons

Each device has an icon related to its type and state.

- Dome camera connected
- Body camera connected
- Body camera not connected
- Body camera with video loss

Device icons are shown with an overlay depending on the status of the device:

- Alarm camera is in alarm mode
- Motion motion is detected

22 en | Live window overview Bosch Video Client

3.4 Relays and contacts pane

Two side tabs are located on the bottom left of the application window:

- Click to open the relays pane.

Click to open the contacts pane.

3.4.1 Output relays

Connected relays are indicated by a green overlay dot. To activate or deactivate a connected relay:

- ▶ Double-click a connected relay to toggle its state.
 - A closed relay icon indicates an active output.
 - A open relay icon 🏈 indicates an inactive output.
- ▶ Right-click a relay to view its properties or toggle its state via the context menu.

3.4.2 Input contacts

Connected input contacts are indicated by a green overlay dot.

- The icon indicates an active input.
- The icon indicates an inactive input.
- ▶ Right-click an input contact to view its properties via the context menu.

Bosch Video Client Live window overview | en 23

3.5 Cameos

A cameo is a single image area within the video display area. There can be one or many cameos in this area.

If you choose to make quick views, the display mode is selected with the display mode icons in the toolbar.

 If a favorite view is selected, the number and layout of the cameos has already been defined.

To assign a camera to a cameo:

- Drag a camera from the left side pane to a cameo position.
 - The camera picture appears in the cameo.
 - A yellow border appears around the cameo.
 - The aspect ratio of the cameo column adapts to the aspect ratio of the camera.

To assign multiple cameras to a cameos:

- ▶ Select multiple cameras and drag them from the left side pane to a cameo position.
 - The first camera picture appears in this cameo.
 - The following cameos are filled from left to right and top to bottom with the remaining selected cameras.
 - The aspect ratio of the cameo column adapts to the aspect ratio of the camera.

To remove a camera from a cameo:

► Click the delete icon in the cameo header.

To enlarge a cameo:

- ▶ Double-click the cameo or click the enlarge icon in the header.
 - The cameo fills the video display area.
 - To return a cameo to its original size, double-click it again or click the reduce icon in the cameo header.

Overlays generated by the camera itself can also be displayed, for example, camera names, alarm messages, times and dates.

The manual live recording icon appears when the pointer is placed over a cameo. For more information see:

Section 6 Live recording, page 29.

3.5.1 Cameo context menu

Right-click in a cameo to display the context menu:

- Select video input
- Enter digital zoom
- Start/stop manual recording
- Maximize/restore video size
- Stop display
- Capture image
- Open instant playback
- Properties

If a monitor wall is configured, **Send to Monitor** and **Send view to Monitor** commands are also available.

24 en | Live window overview Bosch Video Client

3.6 Text view pane

The text view pane displays metadata from an text source associated with a camera connected to a DVR. The line number and date stamp are shown in front of the text.

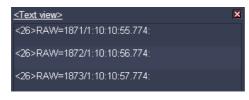




Figure 3.5 Text view pane

3.6.1 Exporting text

To export text from the text pane:

- 1. Click to freeze the text in the text pane.
- 2. Click to copy the text to the clipboard, or click to save the text to a file.

3.6.2 Clearing and closing the text pane

- To clear the text pane, click
- To close the text pane, click

Bosch Video Client Live window overview | en 2!

3.7 Status tabs

The status tabs display messages about discovered devices, and video recording and export.

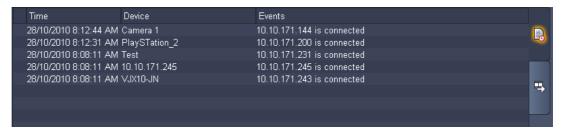


Figure 3.6 Status area

3.7.1 Logbook

The logbook pane lists status messages for device log-on actions and relay or input contact events.

► To see the logbook, click

3.7.2 Export job

The export job pane shows the progress of manual video recording and video export jobs.

To see the status of an export job, click

- 1. To stop a manual video recording or a video export job, click 🛂.
- 2. To remove a stopped or completed entry from the list click 🔀 again.

en | Viewing live images **Bosch Video Client**

Viewing live images 4

26

There are two ways of showing live images in the video area:

select a pre-defined view in the favorites pane to provide persistant video area layouts, or

drag cameras from the device tree into the quick (scratch) viewing layouts.

Note:

It is recommended that you take the time to set up a collection of favorite views. Refer to:

Section 5 Setting up favorite views, page 28

4.1 **Selecting favorite views**

4.1.1 **Selecting views**

To select a pre-defined view:

- Click the favorites tab to open the favorites pane.
 - A list of views appears.
- Double-click a view name to display the pre-defined layout in the live video area. You can also drag the view to the live video area.
 - A yellow border appears around the first cameo.
- To change to a different view, double-click another view name in the favorites pane. You can also drag the new view to the live video area.

4.2 Making quick views

4.2.1 Display mode

To switch the display mode, click a cameo view icon to change the layout configuration of the live viewing area:

- Single cameo
- 2x2 cameos
- 3x3 cameos
- 4x3 cameos

4.2.2 Populating the cameos

To assign a camera to a cameo:

Click the device tree tab



to open the device tree pane.

- A list of devices appears.
- 2. Drag a camera from the device tree to a cameo position.

You can also double-click a camera in the tree view to assign it to the next cameo.

- The camera picture appears in the cameo.
- A yellow border appears around the cameo.
- To reposition a camera, drag it from one cameo to another.

Within a session, a quick display layout retains its assignments unless overruled by a predefined favorite view.

Bosch Video Client Viewing live images | en 27

4.3 Camera status icons

Various overlays in the video image provide important status information. The overlays provide the following information:



Decoding error

The frame might show artefacts due to decoding errors. If other frames reference this frame, they might also show decoding errors but won't be marked with the icon.



Alarm flag

Shown on a media item to indicate an alarm.



Communication error

A communication error, such as a connection failure to the storage medium, a protocol violation or a timeout, is indicated by this icon. An automatic reconnection procedure is started in the background to recover from this error.



Gap

Indicates a gap in the recorded video.



Watermark flag

Watermark is set on media item.



Invalid watermark flag

Indicates that the watermark is not valid.



Motion flag

Indicates that motion is dectected.



Storage discovery

Indicates that recorded video is being retrieved.

5 Setting up favorite views

5.1 Making a view

A view is a collection of camera-to-cameo assignments that can be recalled for instant live viewing. Camera views can be grouped in a logical way; for example, all cameras showing an entrance to a building.

To make a favorite view in the live window:

- 1. Click the view designer icon
 - The view designer pane opens.

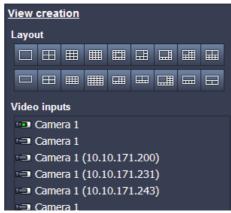


Figure 5.1 Live video window - designing views

- 2. Click a layout icon in the view designer pane.
 - If you continue to click a particular layout icon, its orientation changes.
 - The layout appears in the live video area.
- 3. Drag cameras from the video input window to the cameos.
- 4. Enter a name for the new view.

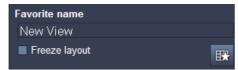


Figure 5.2 Live video window - favorite name

- 5. Check the **Freeze layout** box so the aspect ratios do not change on re-assignment.
- 6. Click the create view icon
 - The view is stored in the favorites pane.
 - You can drag relays and contacts to a view in the favorites pane to create system overivews.

Bosch Video Client Live recording | en 29

6 Live recording

6.1 Recording live video to the PC hard disk

To record a live video clip to your computer's hard disk, proceed as follows:

- 1. Place the pointer over a cameo to select a camera.
- 2. Click the manual recording icon that appears.
 - The export job pane is shown.
- 3. To stop manual recording:

Click in the cameo.

-or-

Click in the export job pane.

A recording is limited to 10 minutes and only two manual recordings can be active at the same time. Date and time overlays are not recorded.

30 en | Saving snapshots Bosch Video Client

7 Saving snapshots

7.1 Capturing a still image

Capture still images from a camera and save them to the PC hard disk in a bitmap format. To save a still image to the PC hard disk:

- 1. Click a cameo to select a particular camera.
- 2. Click the image capture tab
 - The image capture pane opens with the still image displayed.
- 3. To change the default location, click the drop-down arrow to select a different path on vour PC.
- 4. To change the file name, type the new name for the file.
- 5. Click to save the image.
- 6. Click to capture a new still image from the currently active cameo.

The snapshot video image has the same resolution as the camera image. Identification information is shown under the image.

To close the image capture pane, click the image capture tab



Bosch Video Client Instant playback | en 31

8 Instant playback

Use instant playback to view the previous 5 to 120 seconds of recorded video for a particular camera. The camera must, of course, have recording facilities.

The offset time (5 to 120 seconds) is set in the user preferences.

8.1 Viewing recorded video

To view the recorded video of a particular camera from 5 to 120 seconds earlier:

- 1. Click a cameo to make it active.
- 2. Click the instant playback tab

You can also right-click in the cameo and select **Open instant playback** in the context menu.

- The instant playback pane appears.
- 3. Click to start playback.
- 4. Click to pause playback.
- 5. Click to restart playback of the the currently selected cameo 5 to 120 seconds

before the current time.

A timeline scale is shown with a recording indicator bar below it. A grey box indicates a recording.

To control playback:

- ► When paused, click to move back one frame; click to move forward one frame.
- ▶ Drag the timeline scale to move it in time.
- ► Right-click the timeline indicator bar to:
 - center the timeline on the hairline that indicates the playback position
 - hide event search results
 - show IVA search results
- ▶ Drag the hairline to move playback to a point within a recording.
- ▶ Enter the date and time in the time box to move the hairline to that point of the timeline.

To close the playback pane, click the instant playback tab



32 en | Monitor wall Bosch Video Client

9 Monitor wall

The monitor wall is first set-up in the User preferences by dragging available monitors to a position in the wall.

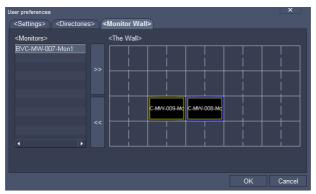


Figure 9.1 User preferences - monitor wall set-up

When a wall has been set up, the monitor wall icon is shown in the task pane.

9.1 Adding cameras and views

To populate the wall with cameras and views:

- 1. Click the monitor wall icon
 - The monitor wall pane opens.

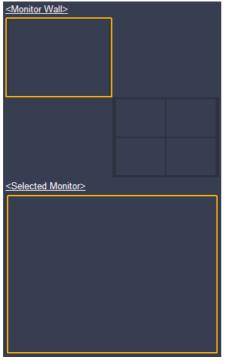


Figure 9.2 Live video window - monitor wall

- 2. Click a monitor in the top section of the monitor wall pane to select.
- 3. Click a view on the selected monitor to select it.
- 4. Drag cameras from the cameos to the selected view.
 - Alternatively, use the context menu of the cameras to assign a camera or a view to a monitor.

Bosch Video Client Controlling cameras | en 33

10 Controlling cameras

10.1 Digital zoom

To zoom in and out digitally on any type of camera:

- 1. Click the cameo of the camera to make it active.
- 2. With the pointer in the cameo, scroll the mouse wheel forward to zoom in or click the + button on the control console to activate digital zoom.



- A light grey box appears in the top left corner of the cameo.
- When you zoom in, the light grey box appears within a dark grey box; this is the zoom area in relation to the full picture.
- 3. Use the mouse scroll wheel to zoom in and out, or use the 🛨 and 🔁 buttons
 - If you zoom out completely, the digital zoom function switches off.
- 4. To move the zoomed area, move the pointer to the picture area:
 - The pointer changes to a direction arrow.

Click, or click and drag within the cameo.

- The zoomed area moves in the direction of the arrow.
- A light grey overlay box within a dark grey box indicates the zoomed area.

-or-

Use the arrows in the control console.

Note:

Digital zoom can also be used with snapshots and archived video files.

en | Controlling cameras Bosch Video Client

10.2 PTZ cameras

You can control controllable (PTZ) cameras by using the mouse on the cameo of the camera or by using the control console icons.

10.2.1 Mouse control

Using the mouse to do in-window pan, tilt, and zoom

- 1. Click the cameo of the camera to make it active.
 - It must be a controllable camera.
- 2. Place the pointer on the active cameo (not in the center).
 - The pointer arrow indicates the direction in which the camera will move.
- 3. Click and hold the left mouse button.
 - The camera moves in the direction indicated.
 - Release the button when the camera is positioned.
- 4. Alternatively, drag the pointer in the desired direction to move the camera.
 - Move the pointer horizontally to pan the camera and vertically to tilt the camera.
- 5. Use the mouse scroll wheel to zoom in or out.

Pan and tilt speed depends on the position of the pointer on the cameo. Click closer to the edge of the cameo to increase the speed; click closer to the center to decrease the speed.

10.2.2 Control console

Pan and tilt



- 1. Select the cameo of the camera to be controlled.
- 2. Click and hold the up and down arrows for tilt.
- 3. Click and hold the left and right arrows to pan.
- 4. Release the mouse button to stop camera movement controls.

Zoom, Focus, and Iris

- 1. Select the cameo of the camera to be controlled.
- 2. Click and hold the left zoom button to zoom out; click and hold the right zoom button to zoom in.
- 3. Click and hold the left focus button for far focus; click and hold the right focus button for near focus.
- 4. Click and hold the left iris button to close the iris; click and hold the right iris button to open the iris.
- 5. Release the mouse button to stop camera adjustment controls.

Bosch Video Client Controlling cameras | en 35

Moving a camera to a pre-position



To move the active camera to a pre-position:

- 1. Enter a pre-position number using the keyboard.
- 2. Click **Shot** (or press enter).

Click buttons one to six for immediate positioning to one of the first six pre-positions.

To store the current position of the camera in a pre-position:

- 1. Position the camera.
- 2. Enter a pre-position number.
- 3. Click **Set**.

Aux functions

Aux commands are special commands for controlling cameras. To switch on the Aux command:

- 1. Enter an Aux number.
- 2. Click Aux On (or press enter).
- 3. To switch off the Aux command, click Off.

36 en | Playback window Bosch Video Client

11 Playback window

In the playback window you can:

- select a single or a quad display mode
- assign cameras to playback cameos to view recorded video
- search for recordings
- control playback
- export recorded video clips to your PC
- take a snapshot of the active playback cameo
- view stored snapshots and video clips

Note:

If you are in the live mode, click _____ to switch to the playback window.

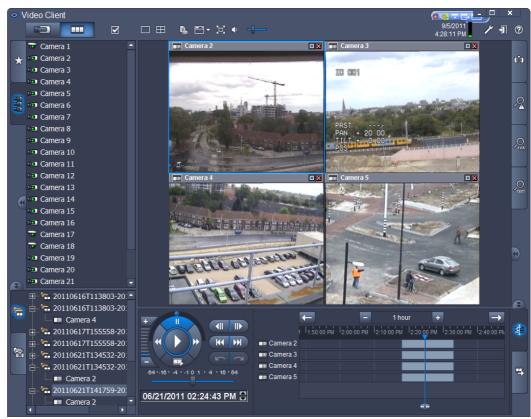


Figure 11.1 Typical playback window

Note:

You cannot assign a favorite view to the playback window.

11.1 Playback toolbar

The toolbar is shown at the top of the playback window.

11.1.1 Selecting single or multiscreen views

To switch the display mode, click a cameo view icon to change the layout configuration of the live viewing area:

In the playback window:

- 1. Click the single button to view the recorded images from one camera.
- 2. Click the quad \blacksquare button to simultaneously view the recorded images of four cameras.

11.1.2 Text viewer pane

Click to open the text viewer pane. Text associated with a camera recording is displayed in the pane.

11.1.3 Cameo window display

Click and select the items you want displayed in the cameo window; a title overlay, a title bar, or no informaion. Select to show or hide the VCA overlay.

11.1.4 Maximize video display

Click to maximize the video display area. Click the icon again on the auto-hide toolbar at the top of the screen to switch back to normal mode, or use F10 to switch between modes.

11.1.5 Audio

Click to enable or disable recorded audio. When enabled, the audio of the selected cameo is heard, if available.

11.1.6 Volume control

Click ___ to adjust the audio volume.

38 en | Playback window Bosch Video Client

11.2 Selecting camera recordings

Video recodings created by cameras that have on-board storage (a memory card), or direct iSCSI or VRM storage, or Divar 700/XF can be viewed.

Expand a camera to see if it has more than one track and then select the track you wish to view. VRM recordings can also have backups that can be selected for viewing

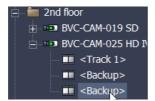


Figure 11.2 VRM backup

To view a camera recording, assign the camera to a cameo:

- ▶ Drag one or multiple cameras from the left side pane to a cameo.
 - The recorded camera picture appears in the cameo.
 - A blue border appears around the cameo.
 - The aspect ratio of the cameo column adapts to the aspect ratio of the camera.

To enlarge a cameo in a quad display:

- ▶ Double-click the cameo.
 - The cameo fills the video display area.
 - Double-click the cameo again to return it to its original size.

11.3 Timeline

Click the timeline tab



to view the timeline.

A timeline with the recordings of the displayed cameras is shown with all camera tracks synchronized to the same playback time.



Figure 11.3 Timeline

The timeline shows the recorded sequence in light blue, motion recording in yellow, contact recording in red and text recording in orange.

To change the timeline scale:

- ► Click the + or box to adjust the timeline scale.
 - 3 minutes, 5 minutes, 15 minutes, 1 hour, 3 hours, 6 hours, 12 hours, 1 day, 2 days, 1 week, 2 weeks, 1 month, All.

To zoom in on a smaller section of the timeline, select a shorter time period.

- ▶ Place the pointer on the timeline scale and rotate the mouse wheel to change the timeline scale.
- ▶ Use the arrows above the timeline or drag the timeline scale to move back and forward in time.

To navigate in the timeline:

Click somewhere in the timeline.
 The images of the selected point in time are displayed.

Or:

In the date and time field, enter the required values.

The hairline jumps to this time. The images of this point in time are displayed in the Image window. Use a timeline controls for the required playing option.

To select a time period:

You can select a time period in the timeline using the hairline. You can use this selection for further tasks such as exporting video data.

- Drag the bottom arrow handles of the hairline to select a time period.
 - Drag the left or right edge of the selection to change the size of the selection.
 - Drag the bottom of this selection to move the selection.
- Right-click the selection and click Clear selection to remove the selection and display the single hairline again.

To check the authenticity of an export video clip selection:

► Select a time period in the timeline, right-click this selection and click **Check** . The authenticity is checked and an appropriate message box opens.

40 en | Playback window Bosch Video Client

To export a selection:

Select a time period in the timeline, right-click this selection and click **Export**.

The **Export** dialog box opens.

Make the appropriate settings.

Refer to Section 11.5 Exporting recorded video clips to a PC hard disk, page 42.

Note:

When you click a context menu command that is not available for all cameras in the timeline, the command is executed only on the cameras that have this option available.

11.3.1 Context commands

The commands available in the context menu depend on what you have selected on the timeline. For example, the context menu for a VRM recorder camera is as follows:



Center at playback time	Moves the timeline to center the current playback			
	time.			
Check	Checks the authenticity of the selection.			
Delete	Deletes the selection (recorders only).			
Delete until	Deletes all recorded video associated with the tracks upto the end time of the selection (recorders only).			
Export	Exports the selection.			
Backup	Makes a backup of the selection (VRM only).			
Protect	Protects the selection (VRM only).			
Unprotect	Unprotects the selection (VRM only).			
Show event search results	Displays results of the event search. Other search results cannot be displayed at the same time.			
Show text search results	Displays results of the text search. Other search results cannot be displayed at the same time.			
Show IVA search results	Displays results of the IVA search. Other search results cannot be displayed at the same time.			
Clear selection	Removes the selection.			

11.4 Playback controls



Figure 11.4 Playback controls

11.4.1 Using the playback controls

Playback

Click to play forward recorded video in the playback window.

Playback speed and direction can be selected in three different ways:

- with the jog dial
- with the forward >> and reverse
 buttons
- with the forward and reverse speed slider with the forward and reverse speed slider

Click ll to freeze the image.

Step forward / Step backward

The step buttons are only enabled when II was clicked.

Click a step button to move the image back or forward one frame.
 When you press and hold the mouse button, every 0.5 seconds a next frame is displayed.

Earliest / Latest recording

Click the earliest or latest recording button to move to the earliest or latest recording.

Jump to event

- Click the previous or next event button to move to the previous or next event. The last executed search (event or IVA) is used. Only the search results for this camera are used.
 - If no search was performed, nothing happens.
 - If the current playback time is after the last search result, nothing happens when jumping to the next event.
 - If the current playback time is before the first search result, nothing happens when jumping to the previous event.

The date and time are shown under the playback controls.

42 en | Playback window Bosch Video Client

11.5 Exporting recorded video clips to a PC hard disk

To store recordings from a selected period on a PC hard disk:

- 1. Drag one or multiple cameras from the left side pane to a cameo.
- 2. Click export button 騳 on playback control panel.
 - The export window appears.
- 3. To change the default location, browse to the location in the PC file system where the archive file is to be stored.
- 4. Type a new name for the file to change the file name.
- 5. Select which cameras to archive in the confirmation window that appears.
 - All assigned cameras are included by default.
 If the same camera is assigned multiple times in your displayed view, only one entry for this camera is listed.
- Enter new values in the From and To boxes to change the selection start and end date/ time.
 - The approximate size of the archive file is shown. Ensure that there is sufficient space to store this file.
- 7. Click **Export** to start saving the archive file.

The export is added to the export status list and a progress bar is shown there. The export job runs in the background, so you can continue using the video client for live viewing, playback, search or other export tasks.

11.6 Taking snapshots

Use the image capture tab to take a snapshot of a recorded image. Refer to Section 7 Saving snapshots, page 30.

11.7 Search tabs

The playback window has three search tabs on the right:

- The **Event Search** tab allows a search for recordings based on alarm and motion events. Refer to *Section 12 Searching for events*, page 44.
- The **IVA** tab allows a search for recordings based on intelligent motion analysis. Refer to Section 13 IVA search, page 46.
- The **Text** tab allows a search for recordings based on text. Refer to Section 14 Searching for text, page 47.

11.8 Playing stored files

Exported video files and exported snapshots that are stored on your PC are played back in the playback window.

11.8.1 Exported video clips

To play back exported video clips:

- 1. Click to open the exported video clip pane.
 - A list of exported files is displayed.
- 2. To see the tracks stored in a file, click +.
- 3. To display a file or a track, double-click it or drag it to a cameo.
 - The timeline of this recording is displayed.

Note:

Files exported in ASF format will not play within the Bosch Video Client. ASF files can be played using standard windows media players.

Context commands

Rename export	Marks the filename of the selected export to change it.		
Delete export	Deletes the selected export directly without a further warning.		
Properties	Displays the Capture file properties dialog box with information on the export file.		

11.8.2 Archived snapshots

To play back exported snapshots:

- 1. Click to open the exported snapshots pane.
 - A list of exported files is displayed.
- 2. To display a snapshot, double-click it or drag it to a cameo.

Context commands

Rename image	Marks the filename of the selected image to change it.		
Delete image	Deletes the selected image directly without a further warning.		
Properties	Displays the Capture file properties dialog box with information on the image file.		

en | Searching for events **Bosch Video Client**

Searching for events 12



Click the event search tab of the playback window to set up a search filter for events.

12.1 **Event search pane**

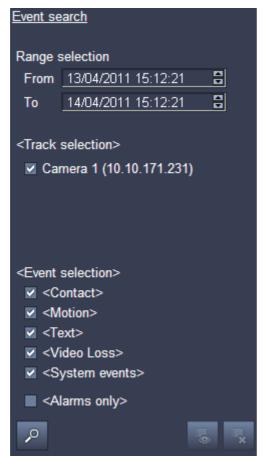


Figure 12.1 Playback window - Event search pane

12.1.1 Setting the search period

Enter the date and time in the **From** and **To** boxes to define the period to search:

The **To** box shows the time and date of the latest (newest) recording and the **From** box the earliest (oldest) recording by default.

12.1.2 Track selection

Check a camera selection box to mark those cameras to be included in the search. Only the assigned cameras are listed here. If a camera is assigned multiple times in your displayed view, only one entry for this camera is listed.

12.1.3 **Event filter**

Specify the type of event to search for:

- **Contact:** recorded video for contact events for the selected tracks is searched for within the defined period.
- Motion: recorded video for motion events for the selected tracks is searched for within the defined period.

Bosch Video Client Searching for events | en

> Text: recorded video for text events for the selected tracks is searched for within the defined period.

- Video Loss: recorded video for video loss events for the selected tracks is searched for within the defined period.
- System Events: recorded video for system events for the selected tracks is searched for within the defined period.
- **Alarms only**: the search is restricted to alarm events only.

12.1.4 Start search



to start the search.

12.1.5 Search results

When the search is completed, a list of video clips that match the filter criteria is displayed. This list shows the latest event recordings at the top, the earliest at the bottom.

- Click on a column header to sort the list according to that column item. Click a second time to sort the list in reverse order.
- Use the scroll bar to examine the full list.
- 3. Click on an entry in the list to select it;
 - The selected event is displayed in the playback window.
- 4. Use the playback controls to adjust playback speed and direction.
- to open the list.
- to clear the list.

46 en | IVA search Bosch Video Client

13 IVA search

Click the IVA search tab of the playback window to set up an IVA search.

To select a time period for IVA search, select it in the timeline using the hairline.

13.1 IVA search pane



Figure 13.1 Playback window - IVA search pane

13.1.1 Algorithm selection

In the drop-down box, select an IVA algorithm to be used in the search.

- A window opens with the pameters of the IVA algorithm.
- Change the desired parameters.
- In the drop-down box, select a preset.
- Click to save your choices.

Note:

Refer to the documentation supplied with the IVA application for more details on setting up algorithms and presets.

13.1.2 Start search

Click to start the search.

13.1.3 Search results

When the search is completed, a list of video clips that match the filter criteria is displayed. This list shows the latest event recordings at the top, the earliest at the bottom.

- 1. Click on a column header to sort the list according to that column item. Click a second time to sort the list in reverse order.
- 2. Use the scroll bar to examine the full list.
- 3. Click on an entry in the list to select it;
 - The selected event is displayed in the playback window.
- 4. Use the playback controls to adjust playback speed and direction.
- Click to open the list.
- Click to clear the list.

Bosch Video Client Searching for text | en 47

14 Searching for text

Click the text search tab



of the playback window to set up a search filter for text.

Note:

Text search is only supported on DVR 700 cameras with an appropriate licence installed.

14.1 Text search pane

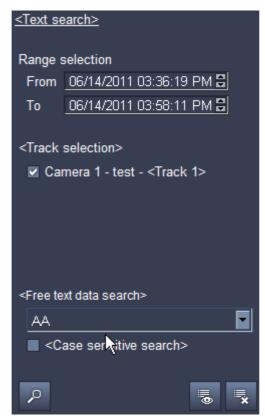


Figure 14.1 Playback window - Text search pane

14.1.1 Setting the search period

Enter the date and time in the **From** and **To** boxes to define the period to search:

 The **To** box shows the time and date of the latest (newest) recording and the **From** box the earliest (oldest) recording by default.

14.1.2 Track selection

Check a camera selection box to mark those camera tracks to be included in the search. Only the assigned cameras are listed here. If a camera is assigned multiple times in your displayed view, only one entry for this camera is listed.

14.1.3 Text filter

Type the text you wish to search for:

 Case sensitive search: check this box to exactly match the case of the typed text to the text you are searching for. 48 en | Searching for text Bosch Video Client

14.1.4 Start search

Click to start the search.

14.1.5 Search results

When the search is completed, a list of video clips that match the filter criteria is displayed. This list shows the latest recordings at the top, the earliest at the bottom.

- 1. Click on a column header to sort the list according to that column item. Click a second time to sort the list in reverse order.
- 2. Use the scroll bar to examine the full list.
- 3. Click on an entry in the list to select it;
 - The selected event is displayed in the playback window.
- 4. Use the playback controls to adjust playback speed and direction.
- Click to open the list.
- Click to clear the list.

Bosch Video Client Command line start | en 49

15 Command line start

The program can also be started from the command line with additional parameters.

For example, the command *C:\Program Files\Bosch\Video Client\videoclient.exe -?* opens a help window with more information about the parameters that can be used.

```
Help
            -? or -help
                this help text.
            -url <url>
                direct connection to device at given <url>.
                <url> has the syntax [user[:password]@]hostname[:portnumber]
                show play task after logon.
            -live
                show live task after logon (default).
            -logon [<user>:<password>]
                show logon task when none or invalid credentials specified.
            -sites <path to sites xml file>
                show the devices as found in the sites xml file.
           In case -url <url> and -play are both set, -play is ignored.
           In case -live and -play are set, -live is ignored.
           In case -url and -logon are both set, -logon is ignored.
           In case -sites <site> and -logon or -url are set, -logon and -url are ignored.
                                                                                OK
```

50 en | Command line start Bosch Video Client

15.1 Sites parameter

If you use the *sites* parameter, you must specify the path to an xml file which describes the DVRs at the different sites. For example, the command

C:\Program Files\Bosch\Video Client\videoclient.exe -sites D:\sites_file.xml

15.1.1 XML file structure

The xml file has a simple structure as is shown in the following example:

```
<?xml version="1.0" encoding="utf-8" ?>
< <sites>
   <showFilter>True</showFilter>
 - <site>
   - <devices>
       <device>10.10.183.118</device>
       <device>10.10.183.119</device>
       <device>10.10.183.120</device>
       <device>10.10.183.121</device>
      <device>10.10.183.122</device>
       <device>10.10.183.123</device>
     </devices>
     <description>Company Head Quarters</description>
   </site>
 - <site>
   - <devices>
      <device>10.10.183.118</device>
     </devices>
     <description>Company European sales office</description>
   </site>
 + <site>
 </sites>
```

Bosch Video Client Command line start | en 51

15.1.2 Sites views pane

The sites pane shows the DVRs that have been listed in the start-up xml file.



Figure 15.1 Sites views pane

- If required, enter text in the filter area to reduce the number of sites listed.
- Select a device and enter its user name and password.
- Click to log on to the device and obtain the list of cameras connected to it.

52 en | Command line start Bosch Video Client

Bosch Security Systems

Werner-von-Siemens-Ring 10 85630 Grasbrunn Germany www.boschsecurity.com

© Bosch Security Systems, 2011