

Bosch Video Management System

BOSCH

en User Manual

Table of contents

1	Using the Help	5
1.1	Finding information	5
1.2	Printing the Help	6
2	Introduction	7
3	System overview	8
3.1	Hardware requirements	8
3.2	Software requirements	8
3.3	License requirements	8
4	First steps	9
4.1	Installing Bosch VMS Viewer	9
4.2	Starting Bosch VMS Viewer Configuration Client	9
4.3	Registration and self-licensing	10
4.4	Preparing devices	15
5	Concepts	16
5.1	Unmanaged site	16
5.2	Bosch VMS Viewer	16
6	Displaying camera images	18
6.1	Selecting a time zone	18
6.2	Displaying a camera in an Image pane	19
6.3	Displaying a panoramic camera	19
6.4	Switching the viewing mode of panoramic camera	20
6.5	Arranging and resizing Image panes	20
6.6	Saving a single image	21
6.7	Printing a single image	21
6.8	Switching to full-screen mode	21
6.9	Displaying or hiding the Image pane bars	22
6.10	Enabling video content analysis (VCA)	22
6.11	Starting instant playback	22
6.12	Connecting to an unmanaged site	23
7	Using favorites and bookmarks	24
7.1	Adding items to the Favorites Tree	24
7.2	Creating/editing views	25
7.3	Adding a bookmark	25
7.4	Editing a bookmark	26
7.5	Loading a bookmark	26
7.6	Exporting bookmarks	27
8	Managing recorded videos	28
8.1	Selecting a time zone	28
8.2	Playing recorded videos	29
8.3	Using the Timeline	29
8.4	Changing the playback speed	29
8.5	Restricting video	30
8.6	Protecting video	30
8.7	Deleting video data	31
8.8	Exporting video data	32
8.9	Exporting into a single file	32
8.10	Loading exported video	33
8.11	Performing a Forensic Search (only VRM recordings)	33

8.12	Enabling video content analysis (VCA)	33
8.13	Finding motion	34
8.14	Connecting to an unmanaged site	34
9	User interface	36
9.1	Live Mode	36
9.2	Playback Mode	37
9.3	Used icons	38
9.4	Menu commands	41
9.5	Options dialog box	43
9.5.1	Control tab	43
9.5.2	Display tab	43
9.6	Logical Tree window	44
9.7	Search dialog box	44
9.8	Favorites Tree window	44
9.9	Bookmarks window	45
9.10	Add Bookmark dialog box	45
9.11	Exports window	46
9.12	PTZ Control window	46
9.13	Image window	47
9.14	Image pane	48
9.15	Timeline window	48
9.16	Motion Search dialog box	49
9.17	Delete Video dialog box	49
9.18	Forensic Search dialog box	49
9.19	Restrict Video dialog box	50
9.20	Unrestrict Video dialog box	51
9.21	Protect Video dialog box	52
9.22	Unprotect Video dialog box	52
9.23	Delete Video dialog box	53
9.24	Export Video dialog box	53
9.25	Export Bookmark dialog box	55
9.26	Export Multiple Bookmarks dialog box	57
9.27	Export dialog box	58
9.28	Motion Search Results window	58
9.29	Video Search Results window	59
10	Keyboard shortcuts	60
10.1	General controls	60
10.2	Playback controls	60
10.3	Image window controls	60
	Glossary	61
	Index	63

1 Using the Help

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Notice!

This document describes some functions that are not available for Bosch VMS Viewer.

To find out more about how to do something in Bosch VMS, access the online Help using any of the following methods.

To use the Contents, Index, or Search:

> On the Help menu, click Help. Use the buttons and links to navigate.

To get help on a window or dialog:

- On the toolbar, click
- OR
- Press F1 for help on any program window or dialog.

1.1 Finding information

You can find information in the Help in several ways. To find information in the Online Help:

- 1. On the **Help** menu, click **Help**.
- 2. If the left-hand pane is not visible, click the **Show** button.
- 3. In the Help window, do the following:

Click:	То:
Contents	Display the table of contents for the Online Help. Click each book to display pages that link to topics, and click each page to display the corresponding topic in the right-hand pane.
Index Search for specific words or phrases or select from a list of index keywords. Double-click the keyword to display the correspond in the right-hand pane.	
Search Locate words or phrases within the content of your topics. Type word or phrase in the text field, press ENTER, and select the top want from the list of topics.	

Texts of the user interface are marked **bold**.

Related Topics

• Click to display a topic with information on the application window you currently use. This topic provides information on the application window controls.

Caution!

Medium risk (without safety alert symbol): Indicates a potentially hazardous situation. If not avoided, this may result in property damage or risk of damage to the unit. Cautionary messages should be heeded to help you avoid data loss or damaging the system.



Notice!

This symbol indicates information or a company policy that relates directly or indirectly to the safety of personnel or protection of property.

1.2 Printing the Help

While using the Online Help, you can print topics and information right from the browser window.

To print a Help topic:

- Right-click in the right pane and select **Print**. The **Print** dialog box opens.
- 2. Click **Print**. The topic is printed to the specified printer.

2 Introduction



Notice!

This document describes some functions that are not available for Bosch VMS Viewer.

Click the link to access the Open Source Software licenses used by Bosch VMS and the Mobile App:

http://www.boschsecurity.com/oss/

3 System overview

Notice!

This document describes some functions that are not available for Bosch VMS Viewer.

Refer to the Release Notes of the current Bosch VMS version for supported versions of firmware and hardware and other important information.

See data sheets on Bosch workstations and servers for information on computers where Bosch VMS can be installed.

The Bosch VMS software modules can optionally be installed on one PC.

3.1 Hardware requirements

See the data sheet for Bosch VMS. Data sheets for platform PCs are also available.

3.2 Software requirements

Viewer cannot be installed where any other Bosch VMS component is installed.

3.3 License requirements

See the data sheet for Bosch VMS for the available licenses.

4

4.1

First steps

Installing Bosch VMS Viewer

Notice!

Installing Bosch VMS Viewer is only allowed on computers, where no other Bosch VMS component is installed.

To install Bosch VMS Viewer:

- 1. Start the Bosch VMS Viewer Setup with a double click on the Setup icon. The Bosch VMS Viewer InstallShield Wizard is displayed.
- 2. Click Install to install Microsoft .NET Framework 4.6 Full.
- 3. On the Welcome screen click Next to continue.
- 4. Accept End User License Agreement and click **Next** to continue.
- Select the desired installation folder and click Next to continue. Note: It is not recommended to change the default folder.
- 6. Click **Install** to start the installation. Bosch VMS Viewer Installation Wizard installs all components and shows a progress bar.
- 7. Click **Finish** to finish the installation.
- 8. Reboot workstation after the installation is finished.

4.2 Starting Bosch VMS Viewer Configuration Client

To start Bosch VMS Viewer Configuration Client:

 From the Start menu, select Programs > Bosch VMS Viewer > Configuration Client or double click the Configuration Client icon.



The Login window of the Bosch VMS Configuration Client is displayed:

		BOSCH		
Bosch Video Management System				
D.	Please log on to the User Name:	server		
Configuration Client Version 7.5 Build 7.5.0.228	Password: Connection:	Bosch VMS Viewer		
Copyright © 2006-20)17 Bosch Sicherheitssyster	OK Cancel		

2. Fill in the following fields:

- User Name: type your user name.
 When you start the application for the first time, enter Admin as user name, no password is required.
- **Password:** type your password.
- Connection: select Bosch VMS Viewer to log on to Bosch VMS Viewer.
 Note: In the Connection: list, by default the local Bosch VMS Viewer is selected.
 Select New to add the IP address of a Bosch VMS Management Server and log on directly to a Bosch VMS Management Server.

4.3 Registration and self-licensing

When you log on to Bosch VMS Viewer Configuration Client for the first time, registration and activation of a license is mandatory.

Please note: the Base package of Bosch VMS Viewer is free of charge.

To obtain the Activation Key:

1. Log on to Bosch Security Systems License Manager.

If you don't have an account for the **Bosch Security Systems License Manager**, click **Create Account** to create a new account.

	Invented for life BOSCH
 Homepage 	✓ Bosch Security Systems
Bosch Security Systems Software License Manager	Not logged in. Welcome To the License Manager!
▶ Login	Please enter your username and password to access your account.
	Password: Submit
	Forgot Password? Create Account Support
	You may also click here to activate new licenses without logging in.
▲ Top of page	

2. Click Create Demo License.

🖓 Japanese	🖂 Contact		Terms of U	Jse	3/16/2017
		Inven	nted for life	(a)	BOSCH
 Homepage 				 ■ Bo: 	sch Security Systems
Bosch Secur Software Lice	ity Systems ense Manager	Create Demo L	icense		
Customer Oper ► My Activations	ations				
Create Demo Lice	enses	Bosch VMS Viewer 7.5 Submit			
Find Activations	S				
My Account					
 License Activat 	tion				
Change Passv	vord				
Download Bun	dle File				
Reporting License Status Maintenance E 	s ixtension Report				
▶ Logoff					
Top of page					

- 3. In the list of demo licenses, click **Submit** to create Bosch VMS Viewer demo license.
- 4. In the **License Activation** dialog box, enter the computer signature of your Bosch VMS Viewer and fill in all mandatory fields.

To retrieve the computer signature:

- 1. Open **License Manager** (During first log on the **License Manager** dialog box opens automatically. To manually open the **License Manager** dialog box, in the Bosch VMS Viewer Configuration Client click **Tools** and then click **License Manager...**).
- 2. In the **License Manager** dialog box, select the Bosch VMS Viewer package.

	Base Packages	Type Number	Status
V	Viewer Edition 7.5	MBV-BVWR-75	
	Optional Features	 Type Number 	Status
	Expansion	△ Type Number	Status
m 1	Viewer Channel (Enc/Dec) Expansion (1)	MBV-XCHANVWR-75	
m 1	Viewer DVR Expansion (1)	MBV-XDVRVWR-75	
1	Viewer Unmanaged Site Expansion (1)	MBV-XSITEVWR-75	

3. Click **Activate**.

4. The **License Activation** dialog box is displayed.

2 License Activation			
If you already have the License Activation Key, type it in the 'License Activation Key' field below.			
Otherwise obtain the License Activation Key from Bosch Activation Center (https://activation.boschsecurity.com).			
Enter the following information there:			
1. Your authorization number that you received together with the software.			
2. The following computer signature:			
6B 9F 55 40 DB 24 7A 45 06 6C C4 CD 5F B6 49 3F			
In turn you will obtain the License Activation Key that you type in the corresponding text field below.			
License Activation Key:			
Activate			

5. Copy the computer signature.

Notice!



The computer signature is used for licensing. This computer signature can change after exchanging hardware on the computer. When the computer signature is changed, the license for the system becomes invalid.

To avoid licensing problems, finish the hardware and software configuration before you generate the computer signature. Make sure your computer is connected to the network before obtaining the computer signature.

The following hardware changes can make the system license invalid:

Exchanging the network interface card.

Adding a VMWare or VPN virtual network interface.

Adding or activating a WLAN network interface

To create the Activation Key:

P Japa

1. In **Bosch Security Systems License Manager**, in the **Computer Signature** field, paste the computer signature and fill in all mandatory fields.

	Invented for life BOSCH
 Homepage 	✓ Bosch Security Systems
Bosch Security Systems Software License Manager	License Activation:
Customer Operations My Activations	Authorization Number: 8403 5085 7650 2511
Create Demo Licenses	License Type Number: MBV-BVWR-75
Find Activations	Description: Viewer Edition 7.5
► My Account	Quantity: 1
License Activation	Product Family: BVMS
Download Bundle File	Activations Allowed / Complete: 1/0
Poporting	If the above information is correct, please provide the following information.
► License Status	Computer Signature: 6B 9F 55 40 DB 24 7A 45 06 6
Maintenance Extension Report	Installation Site: Viewer Test
▶ Logoff	Comment My Comment
	Optional data is not required to complete your activation. Optional Data
	Data Field 1(e.g. Customer Number):
	Data Field 2(e.g. Contract Number):
	Data Field 3(e.g. Customer Name):
	Data Field 4(e.g. Reference Number):
	Data Field 5(e.g. Customer email
	address):
▲ Top of page	Submit Help

2. Click **Submit** to generate the free of charge license.

🖓 Japanese 🛛 🖾 Contact		Terms of l	Jse	3/16/2017
	Inven	ted for life	Þ	BOSCH
< Homepage			 ■ Bo 	sch Security Systems
Bosch Security Systems Software License Manager	License Ac	tivation:		
Customer Operations My Activations Create Demo Licenses	Authorization Number: 8403 5085 Computer Signature: 6B 9F 55 40	7650 2511 I DB 24 7A 45 06 (6C C4 CD	5F B6 49 3F
Find Activations My Account License Activation	License Type Number: MBV-BVWR Description: Viewer Edi Quantity: 1	-75 ion 7.5		
 Change Password Download Bundle File 	Product Family: BVMS Activations Allowed / Complete: 1/1 Installation Site: Viewer Test Comment: My Comment Thank you for activating your license. Your activation key for this license is: 3223 3875 7695 9D98 97D7 CEFD BE7A 3DF6 5745 70CF Email Activation Key			
Reporting ▶ License Status ▶ Maintenance Extension Report				nse is:
▶ Logoff				
	en e			
. Top of page				

4. Copy the activation key.

To activate your system:

1. In the **License Activation** dialog box, paste the License Activation Key.

License Activation		
If you already have the License Activation Key, type it in the 'License Activation Key' field below.		
Otherwise obtain the License Activation Key from Bosch Activation Center (https://activation.boschsecurity.com).		
Enter the following information there:		
1. Your authorization number that you received together with the software.		
2. The following computer signature:		
6B 9F 55 40 DB 24 7A 45 06 6C C4 CD 5F B6 49 3F		
In turn you will obtain the License Activation Key that you type in the corresponding text field below.		
License Activation Key:		
3223 3875 7695 9D98 97D7 CEFD BE7A 3DF6 5745 70CF		
Activate Cancel		

2. Click Activate.

4.4 Preparing devices

Bosch video devices that shall be added to a Bosch VMS Viewer must have an assigned fixed IP address and need to be preconfigured. To assign an IP address to the device, use the device configuration webpage or use Bosch tools to assign IP addresses. Recording relevant settings have to be done on the recorders via device configuration tools or device web pages. For device specific configuration, please refer to the configuration or user manual of the desired device.

5 Concepts

Notice!

This chapter provides background information on selected issues.

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This document describes some functions that are not available for Bosch VMS Viewer.

5.1 Unmanaged site

Operator Client

The user of Operator Client of system A can connect to another system B. System B is called

unmanaged site, indicated by \heartsuit . The user can for example perform the following tasks on the video network devices of system B:

- Display live and playback.
- Export video.
- Delete video.
- Protect and unprotect video.
- Create and print a snapshot.

The user of Operator Client can switch the time zone if an unmanaged site is configured to be located in another time zone.

You can configure the time zone of an unmanaged site. This is useful when a user of Operator Client wants to access an unmanaged site using a computer with Operator Client located in another time zone than this unmanaged site.

Limitations

- Bookmarks can be saved and used, but are not persistent after the Operator Client has been restarted.
- Favorites can be saved and used, but are not persistent after the Operator Client has been restarted.

For supported video network devices and limitations, see the Bosch VMS datasheet.

5.2 Bosch VMS Viewer

Bosch VMS Viewer is a free of charge variant of Bosch VMS.

The Bosch VMS Viewer system is an all in one Bosch VMS solution for small to medium installations and gives the user of Bosch VMS Viewer Operator Client access to live and recorded video data. Compared to a Bosch VMS system, Bosch VMS Viewer system supports only a subset of the Bosch VMS features and devices. The software is designed for the basic video surveillance operations, like live viewing, playback video, search in recorded video and export of video data.

Bosch VMS Viewer consists of a Bosch VMS Operator Client and Bosch VMS Configuration Client. Both applications show a reduced feature set compared to the two applications in Bosch VMS.

Bosch VMS Viewer Configuration Client is used to add devices to the system, to define the order of the device and to setup users and user preferences.

Device Configuration

Following device are supported:

- BRS / Dibos
- Digital Video Recorders
- Monitor / decoders (only digital monitor walls)

- VRM devices
- Live only and local storage cameras
- unmanaged sites

Bosch VMS Viewer does not overwrite the configuration of the devices, the devices are added with existing configuration to Bosch VMS Viewer. If supported by devices, the configuration of the device can be changed with Bosch VMS Viewer.

Structure of Logical Tree

Cameras, inputs and relays can be structured in the **Maps and Structure** page of Bosch VMS Viewer. Devices can be grouped in folders and the order of devices can be configured.

User groups

In the user group settings, users can be configured, that are allowed to access Bosch VMS Viewer. Depending on the user group settings, users have different rights in Bosch VMS Viewer Operator Client.

Supported features

Bosch VMS Viewer Operator Client supports the following features:

Live viewing:

- PTZ cameras
- Favorites
- Sequences
- Instant replay
- Save and print images
- Select stream
- Bookmarks

Playback video:

- Smart Motion search
- Forensic Search
- Save and print images
- Export of video data
- Bookmarks

Displaying camera images

This chapter provides information on how to display camera images. Some of the features described in this chapter can be deactivated for your user group.



6

Notice!

This document describes some functions that are not available for Bosch VMS Viewer.

6.1 Selecting a time zone

Main window



Notice!

Ensure that the time on all computers of your system is set correctly according to each time zone where the computers are located.

Management Server or unmanaged site and all connected devices including encoders, decoders, VRM Server computers, DiBos and DVR devices must be in the same time zone. Operator Client computers (including Client SDK and Cameo SDK) and Configuration Client computers can be in other time zones than the Management Server or unmanaged site. If your Operator Client is located in another time zone than one or more connected Management Server or unmanaged site, you can select one of the following time displays:

- Your local time
- UTC

- Time zone of the Management Server or unmanaged site you are connected to The Image panes displaying a camera (live and playback) always show the time of the corresponding Management Server or unmanaged site.

In the Logical Tree, is displayed on the device icon of each server or unmanaged site that do not share the time zone that is currently selected in the Operator Client:



You can select the time zone of a server or unmanaged site for displaying this time zone in Operator Client.

To select the time zone:

- 1. In the Logical Tree, right-click a server icon to select the time zone of this server.
- 2. In the time zone selector list, select the desired entry.
 - Operator Client Time: Operator Client

6.2

UTC

- **UTC-x**: time zone of each available Management Server

The time based on the selected time zone is displayed in the menu bar:



See also

Logical Tree window, page 44

Displaying a camera in an Image pane

Main window

To assign a camera image to an Image pane:

Drag a camera from the Logical Tree window to an Image pane.
 The selected camera image is displayed in the Image pane.

Or:

- 1. Select an Image pane.
- In the Logical Tree window, double-click a camera.
 The selected camera image is displayed in the Image pane.
- Repeat the above steps for every camera you want to display. You can also drag maps and documents to Image panes.

Or:

In the Logical Tree, right-click a camera and click in next free Image pane. The camera is displayed.

To move a camera within the Image window:

> Drag the camera into another Image pane.

To zoom digitally:

• Rotate the wheel button forward or backward to zoom in or zoom out.

See also

- Logical Tree window, page 44
- Image window, page 47
- Image pane, page 48

6.3 Displaying a panoramic camera

Main window

You can display panoramic cameras. The original full image circle of a panoramic camera is automatically dewarped when displayed in an Image pane.

You can display panoramic cameras and use ePTZ in Live Mode and Playback Mode

You can select a point of interest of the panorama image for display in another Image pane. This Image pane displays the cropped image. Cropping and using ePTZ in a cropped image is possible in Live and Playback Mode.

The Image window allows a flexible resizing of the Image pane that displays a panoramic camera or any other camera.

To display a panoramic camera:

- Drag a camera with the 🔍 icon to an Image pane. 1 The camera image is displayed in panorama view.
- Use the available control elements in the Image pane for navigating in the image. 2.

To display a cropped image:

- Display a panoramic camera in panorama view. 1.
- Press and hold the CTRL-key. 2. The mouse pointer changes accordingly.
- 3. Click and hold a point of interest.
- 4. Drag the selected point to another Image pane and drop it. Release the CTRL-key. A section of the panorama view around the selected point is displayed. You can create another cropped image from this cropped image with the same procedure. We recommend displaying maximum 10 cropped Image panes simultaneously.
- 5. Use the available control elements in the Image pane for navigating in the image.

See also

- Switching the viewing mode of panoramic camera, page 20
- Arranging and resizing Image panes, page 20

6.4 Switching the viewing mode of panoramic camera

Main window

or





Select an Image pane with panoramic camera > Main window > You can switch the viewing mode for a panoramic camera displayed in an Image pane. The following modes are available:

- Circle view
- Panorama view (initial view)
- **Cropped view**

A panoramic camera must be configured in the Logical Tree for this user.

To switch:

In the title bar of an Image pane displaying a panoramic camera, click the Switch panoramic mode icon and select the desired entry.

When the Image pane for this camera is closed and opened again, the Panorama view mode is displayed.

See also

- Displaying a panoramic camera, page 19
- Image pane, page 48

6.5 Arranging and resizing Image panes

Main window

To arrange Image panes:

- Move the slider for the Image pane pattern. 1.
- Drag an item from the Logical Tree window to an Image pane. Repeat this until all 2. required cameras are displayed.

If an object is already displayed in a target Image pane, this object is replaced.

3. Drag a camera from one Image pane to another, if required.

To resize an Image pane:

1. Point to a border or corner of an Image pane. The pointer appears as a double-headed arrow.

You can resize diagonally, vertically or horizontally.

The resulting size of the Image pane is limited to the grid of the select Image pane pattern.

The Image pane ratio is not restricted to the 4:3 or 16:9 aspect ratio.

2. Drag to resize the Image pane.

See also

- Image window, page 47

6.6 Saving a single image

Main window

To save a single image:

- 1. Select an Image pane.
- 2. Click

A dialog box for saving the image file is displayed.

- 3. Select the desired directory, enter a file name, and select the desired file type. JPG and BMP are available.
- 4. Click **OK**.

The image is saved. The file contains additional information about the camera. If you logged on to an Enterprise Management Server, the camera name is displayed with the name of this camera's Management Server as a prefix.

See also

- Image pane, page 48

6.7 Printing a single image

Main window

To print a single image:

- 1. Select an Image pane.
- 2. Click

A dialog box for selecting the printer is displayed.

3. Click **OK**.

The image is printed. The printout contains additional information about the camera. If you logged on to an Enterprise Management Server, the camera name is displayed with the name of this camera's Management Server as a prefix.

See also

lmage pane, page 48

6.8 Switching to full-screen mode

Main window

Full-screen mode hides many control elements, for example the menu commands or the Alarm List if no alarm monitor was switched to full-screen mode. For accessing these control elements, leave the full-screen-mode. 6.9

To display the entire Image window in full-screen mode:

On the Image window toolbar, click .
 The Image window is displayed in full-screen mode.

To leave the full-screen mode:

	. <u> </u>
Click	<u>a</u>

To maximize a selected Image pane:

Right-click an Image pane and click Maximize.
 The selected Image pane is displayed using the entire Image window.

See also

Image window, page 47

Displaying or hiding the Image pane bars

Main window

To display / hide the toolbars:



lick 💷 to hide the toolbars.

See also

Image window, page 47

6.10 Enabling video content analysis (VCA)

Main window

To enable:

Right-click an Image pane with a camera assigned and click Enable Content Analysis.
 The VCA overlays are displayed. This setting is retained after the next restart or re-logon of Operator Client or after closing the camera and displaying it again in an Image pane.

To disable:

Right-click an Image pane with a camera assigned and click Disable Content Analysis.
 The VCA overlays disappear.

6.11 Starting instant playback



You can view the recordings of a camera in an Image pane in the Live Mode.

If configured you can change the recording source.

The current setting of the digital zoom and the image section are used for instant playback. The start time (number of seconds in the past or rewind time) for instant playback is

configured in the **Options** dialog box (**Extras** menu, **Options...** command).

To start instant playback:

- 1. Select the required Image pane.
- 2. Click

The recording is played.

- Switch to the desired recording source if available.
 Note: After switching the recording source the rewind time can deviate from the configured value.
- To return to live image, click



Note: More than one Image pane with instant playback is possible, even multiple instant playbacks of the same camera.

See also

Image pane, page 48

6.12 Connecting to an unmanaged site

Main window

You can connect to an unmanaged site. All available devices of all video network devices of this site are then displayed in the Logical Tree. As soon as you log off or exit Operator Client, this connection is terminated.

To connect:

- 1. Right-click 💡
- 2. Click Connect to Site.

As long as the device is connecting, 🐧

After the connection is successfully established, V is displayed. All available devices of this site are displayed in the Logical Tree.

If not all devices belonging to this site can be connected, M is displayed. You can later try to connect the remaining devices that were not connected now.

🔼 is displayed.

Tip: You can also double-click ♥ to connect.

To connect remaining devices:

- 1. Right-click V
- 2. Click Retry Connection.

To disconnect a single site:



2. Click Disconnect from Site.

The icon changes:

All Image panes with devices belonging to this site are automatically closed.

To disconnect all sites:

Click

All sites are disconnected. Partially connected sites are not disconnected. All Image panes with devices belonging to this site are automatically closed.

See also

1.

– Unmanaged site, page 16

Using favorites and bookmarks

This chapter provides information on how to use the Favorites Tree and the Bookmark Tree.

Favorites Tree

You can add every item of the Logical Tree to a view in the Favorites Tree to create your own subset of the Logical Tree. At any time you can display the view or add or delete devices in a view.

When saving a view in the Favorites Tree, you save the following settings:

- The assignment of cameras or other objects to Image panes
- The Image pane pattern
- The current setting of the digital zoom
- The image section
- The selected stream (only available for Live Mode)

Bookmark Tree

You can save a time period of live view or a recording in a bookmark. A bookmark saves a start and an end time, the cameras assigned to Image window at this time, and the entire Image

pane pattern. A time period of 0 seconds is possible. Bookmarks are saved in the pane. Deleting a bookmark does not affect the corresponding recordings. You cannot add or remove cameras from a bookmark. To change a bookmark, load it, make your changes and save it. If a recording is deleted, the corresponding bookmark is not synchronized. If loaded, a black Image pane is displayed.

If you have logged on to an Enterprise Management Server, the camera name is displayed with the name of this camera's Management Server as a prefix.

Note: Do not add more than 4 cameras in one bookmark to avoid performance issues when loading the bookmark.



Notice!

This document describes some functions that are not available for Bosch VMS Viewer.

See also

- Favorites Tree window, page 44

7.1

Adding items to the Favorites Tree



Main window > 🗖

You can add each item of the Logical Tree to the Favorites Tree. This allows you to define your own subset of the Logical Tree.

To add an item:

• Right-click an item and click Add To Favorites.

See also

- Logical Tree window, page 44
- Favorites Tree window, page 44

Creating/editing views 7.2

> Main window > or

Main window



After having assigned cameras, maps, and HTML files to Image panes, you can save this assignment and the Image pane pattern in a view in the Favorites Tree.

To create a new view:

- 1. Arrange the cameras in the Image window in Live Mode and in Playback Mode.
- If desired, use the digital zoom and select an image section. 2.

When displaying a view, the live image of the camera is displayed in Live Mode and the recorded video of the camera is displayed in Playback Mode.

In the Image window toolbar, click

A new view **The set of the new view**.

To display a view:

3.

Double-click the view. The assignment saved in this view is displayed in the Image window.

Note: You can also right-click the view and click Load Cameo View to display.

To edit a view:

- Double-click the view which you want to edit. 1.
- Make the required changes, for example assign cameras to Image panes. 2.
- Right-click the required view and click **Update Cameo View**. 3.

To rename a view:

- Right-click the required view **and click Rename**. 1.
- Enter the name of the view and press ENTER. 2

To delete a view:

Right-click the view and click **Remove**. ۲ The view is removed from the Favorites Tree.

See also

Favorites Tree window, page 44

7.3

Adding a bookmark

> Assign desired cameras to Image panes Main window >

or

Main window > Assign desired cameras to Image panes

To add a bookmark:

- Using the Hairline, select the time period on the Timeline. 1.
- In the toolbar, click 🖷 2. The Add Bookmark dialog box is displayed. If you logged on to an Enterprise Management Server, the camera name is displayed with the name of this camera's Management Server as a prefix.
- 3. The selected time period is copied to the appropriate fields.
- 4. Make changes if required.
- Click OK. 5.
- The bookmark is saved in the Bookmark Tree. 1

See also

Add Bookmark dialog box, page 45

7.4

Editing a bookmark

or



Main window >

To edit a bookmark:

- 1 Right-click a bookmark and click **Edit Bookmark**. The Edit Bookmark dialog box is displayed.
- Make changes if required. 2.
- 3. Click OK.
- The bookmark is saved in the Bookmark Tree.

See also

Add Bookmark dialog box, page 45

7.5

Loading a bookmark

or

Main window >

Main window >

To display a bookmark:

- Drag a bookmark to the Image window. The entire Image window layout saved in the • bookmark is displayed in the Timeline. The Hairline is positioned at the start time of the bookmark.
- \checkmark The previous Image window is overwritten.

See also

Bookmarks window, page 45

7.6 Exporting bookmarks

See also

- Export Bookmark dialog box, page 55
- Export Multiple Bookmarks dialog box, page 57
- Timeline window, page 48

Managing recorded videos

This chapter provides information on how to manage recordings. Some of the features described in this chapter can be deactivated for your user group.



8

Notice!

This document describes some functions that are not available for Bosch VMS Viewer.

8.1 Selecting a time zone

Main window



Notice!

Ensure that the time on all computers of your system is set correctly according to each time zone where the computers are located.

Management Server or unmanaged site and all connected devices including encoders, decoders, VRM Server computers, DiBos and DVR devices must be in the same time zone. Operator Client computers (including Client SDK and Cameo SDK) and Configuration Client computers can be in other time zones than the Management Server or unmanaged site. If your Operator Client is located in another time zone than one or more connected Management Server or unmanaged site, you can select one of the following time displays:

- Your local time
- UTC

- Time zone of the Management Server or unmanaged site you are connected to The Image panes displaying a camera (live and playback) always show the time of the corresponding Management Server or unmanaged site.

In the Logical Tree, is displayed on the device icon of each server or unmanaged site that do not share the time zone that is currently selected in the Operator Client:



You can select the time zone of a server or unmanaged site for displaying this time zone in Operator Client.

To select the time zone:

- 1. In the Logical Tree, right-click a server icon to select the time zone of this server.
- 2. In the time zone selector list, select the desired entry.
 - Operator Client Time: Operator Client

UTC

- **UTC-x**: time zone of each available Management Server

The time based on the selected time zone is displayed in the menu bar:



See also

- Logical Tree window, page 44

8.2 Playing recorded videos

See also

- Timeline window, page 48
- Using the Timeline, page 29

8.3 Using the Timeline

You can access a specific time in the Timeline via the Hairline.

To navigate in the Timeline:

- Click somewhere in the Timeline.
- The images of the selected point in time are displayed in the Image window.

Or:

- 1. In the date and time field, enter the required values.
- 2. Click

The Hairline jumps to this time. The images of the entered point in time are displayed in the Image window. Use a Timeline control for the required playing option.

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

• Drag the bottom handles of the Hairline to select a time period or to change this selection.

Drag the upper handles to move the hairline or selection.

See also

- Timeline window, page 48
- Playing recorded videos, page 29

8.4 Changing the playback speed

To change the playback speed for playing a video forward or reverse:

• Move the slider to the left to decrease the playback speed, and to the right to increase the playback speed.

See also

- Timeline window, page 48

8.5 Restricting video

Main window >

> Timeline menu

You can restrict the recordings of cameras connected to the following DIVAR AN devices:

- DIVAR AN 3000
- DIVAR AN 5000

When restricted, an unauthorized user cannot display the recordings of these cameras.

The DIVAR AN devices can be connected to Bosch VMS either locally under 🐜 or as an

unmanaged site under 🔰

For restricting you need the corresponding permission.



Notice!

Unrestricting / unprotecting a selected time period can possibly unrestrict / unprotect the entire contiguous restricted / protected time period of this camera, even outside the selected time period.

To restrict:

- 1. Using the Hairline, select the time period of one or more DIVAR AN cameras on the Timeline.
- Right-click this time period and click **Restrict Video...**. The **Restrict Video** dialog box is displayed.
- 3. Click **Restrict**.

A message box is displayed showing detailed information on the time period that is effectively restricted. Usually this time period is larger than the selected time period. The video data is restricted. In the Timeline, restricted video is indicated with red diagonal stripes:

Note:

To remove the restriction, select the restricted period in the Timeline, right-click, and then click **Unrestrict Video...**.

See also

- Restrict Video dialog box, page 50
- Unrestrict Video dialog box, page 51



Protecting video



You can protect the images of the displayed cameras against being overwritten or deleted.



Notice!

You cannot protect the data of a local storage device.

1. Using the Hairline, select the time period on the Timeline.

 Right-click this time period and click Protect Video.... The Protect Video dialog box is displayed. The selected time period is copied to the Start: and End: fields.

If required, change the values.

3. Click **Protect**.

The video data is protected. In the Timeline, procted video is indicated with white diagonal stripes:

Note:

To remove the protection, select the protected period in the Timeline, right-click and click **Unprotect Video...**.

See also

- Protect Video dialog box, page 52
- Timeline window, page 48

8.7 Deleting video data



Main window > 🏧

Note: You cannot restore deleted video data.

You can delete video data from the beginning of the recording to the position of the hairline. The video data of all cameras available in the Timeline are deleted.

VRM recordings: Protected recordings are not deleted.

NVR recordings: When protected recordings are available, the deleting is not started.



Notice!

You cannot delete the data of a local storage device.

To delete video:

1. Move the Hairline to the desired position on the Timeline.

On the Timeline menu, click Delete Video....

The **Delete Video** dialog box is displayed.

2. Make the appropriate settings.

For detailed information on the various fields, follow the link to the appropriate application window below.

Click Delete.

Confirm the warning message. When deleting is finished, click **Done**.

See also

- Delete Video dialog box, page 49
- Timeline window, page 48
- Delete Video dialog box, page 53

8.8 Exporting video data

Notice!

You cannot export the data of a local storage device.

To export a time period (only available in Playback Mode):



- 2. Using the Hairline, select the time period on the Timeline.
- 3. Click

1.

The **Export Video** dialog box is displayed. The selected time period is copied to the **Start:** and **End:** fields.

- Make the appropriate settings.
 If you want to encrypt the exported files, type in a password and confirm this password.
- 5. Click **Export**.

The size of the recordings to be exported is estimated. Overlappings of recordings are subtracted. If free space is not enough, an error message is displayed. The authenticity of the export is automatically verified.

The files are exported to the selected data medium.

6. If available, click **Verification Details** to display the **Authenticity Verification Result** dialog box.

See also

- Export Bookmark dialog box, page 55
- Export Multiple Bookmarks dialog box, page 57
- Export Video dialog box, page 53
- Timeline window, page 48
- Video Search Results window, page 59

8.9 Exporting into a single file

You can export video recordings into a single ZIP file.

To export:

- 1. Enter the desired start and end times.
- 2. Click to select **Export as single ZIP file**.
- Make the appropriate settings.
 If you want to encrypt the exported files, type in a password and confirm this password.
- 4. Click Export.

The size of the recordings to be exported is estimated. If free space is not enough, an error message is displayed.

The authenticity of the export is automatically verified.

The recordings are exported and the export is added to a single ZIP file.

5. If available, click **Verification Details** to display the **Authenticity Verification Result** dialog box.

Notice!

You cannot load a ZIP export file in Operator Client.

See also

- Export Video dialog box, page 53

8.10 Loading exported video



Notice!

You cannot load a ZIP export file in Operator Client.

See also

- Exports window, page 46
- Timeline window, page 48

8.11 Performing a Forensic Search (only VRM recordings)



tab > Select an Image pane

You can check the video in the selected Image pane for motion. Forensic Search allows you to search for specific properties.

Forensic search is only available for VRM recordings.

- 1. Select the Image pane where you want to find motion.
- 2. Using the Hairline, select the time period on the Timeline and select the corresponding Image pane.
- 3. Click

Main window >

- The **Forensic Search** dialog box is displayed. The selected time period is copied to the **Start:** and **End:** fields. If required, change the values. Click **≈**.
- 4. In the Algorithm: list, select an Intelligent Video Analytics entry.
- 5. In the **Surveillance Tasks** field, configure your Forensic Search.

See the user documentation of the Intelligent Video Analytics version that you are using.

6. Click **Search** to start the Forensic Search.



e window with the matching entries is displayed.

7. For playing the corresponding video, double-click the entry. The corresponding video is displayed.

See also

- Forensic Search dialog box, page 49
- Timeline window, page 48

8.12 Enabling video content analysis (VCA)

Main window

To enable:

Right-click an Image pane with a camera assigned and click Enable Content Analysis.
 The VCA overlays are displayed. This setting is retained after the next restart or re-logon of Operator Client or after closing the camera and displaying it again in an Image pane.

To disable:

Right-click an Image pane with a camera assigned and click Disable Content Analysis.
 The VCA overlays disappear.

8.13 Finding motion



See also

- Motion Search dialog box, page 49
- Motion Search Results window, page 58
- Timeline window, page 48

8.14 Connecting to an unmanaged site

Main window

You can connect to an unmanaged site. All available devices of all video network devices of this site are then displayed in the Logical Tree. As soon as you log off or exit Operator Client, this connection is terminated.

To connect:

- 1. Right-click 💙
- 2. Click Connect to Site.

As long as the device is connecting, VII is displayed.

After the connection is successfully established, **v** is displayed. All available devices of this site are displayed in the Logical Tree.

If not all devices belonging to this site can be connected, 🛛 is displayed. You can later try to connect the remaining devices that were not connected now.

Tip: You can also double-click 💙 to connect.

To connect remaining devices:

- 1. Right-click 🚺
- 2. Click Retry Connection.

To disconnect a single site:

- 1. Right-click V or V.
- 2. Click **Disconnect from Site**.

The icon changes: 💙

All Image panes with devices belonging to this site are automatically closed.

To disconnect all sites:

Click 💡

All sites are disconnected. Partially connected sites are not disconnected. All Image panes with devices belonging to this site are automatically closed.

See also

- Unmanaged site, page 16

1

9 User interface Notice! This desument describes some functions that are not subjlable for

This document describes some functions that are not available for Bosch VMS Viewer.

See also

- Live Mode, page 36
- Playback Mode, page 37

9.1 Live Mode



You automatically access Live Mode every time you log on. Allows you to move, resize, or hide all control elements as required. You can right-click to display the context menu.

0 **Operator Client - Control** 1 Tools Alarms Extras Help 4 13.08.2014 17:09 5 Local Time · BOSCH System Camera 2 0 A 题 ~ terprise Logical × = - 1/8 1/4 1/2 1 2 4 8 3 🖨 🔂 MS1 [1] 💓 MS1.Camera. 17:09:17 🗆 🗙 🚸 Stadion2 Π× 1 0 Mirtual Input 1 MS1.172.30.11.3 8 👝 MS1.Camera 1 (17 172.31.20.13 (172. 1 Stadion2 MS2 [2] 🐨 MS2.Camera 1 (17 🝋 MS1.Camera 17:09:17 🗖 🗙 MS2.Camera 2 (17) MS2.Camera 3 (17 A Input 1 (172.31.21. A Input 2 (172.31.21. 📥 Input 3 (172.31.21. 📥 Input 4 (172.31.21. 9:09:17 X 19:09:17 🗖 🗙 🝋 MS2.Camera 19:09:17 🗆 🗙 10 100 3 . 0

1	Menu bar	Allows you to select a menu command.
2	Toolbar	Displays the available buttons. Point to an icon to display a tooltip.
3	Playback controls	Allows you to control instant playback or a camera sequence or alarm sequence.
4	Performance meter	Displays the CPU usage and the memory usage.

5	Time zone selector	Select an entry for the time zone to be displayed in most time related fields. Only available if at least one Management Server or unmanaged site in the Logical Tree is located in another time zone as your Operator Client.
6	Controls for Image panes	Allows you to select the required number of Image panes and to close all Image panes.
7	Image window	Displays the Image panes. Allows you to arrange the Image panes.
8	Image pane	Displays a camera, a map, an image, a document (HTML file).
10	PTZ Control window	Allows you to control a PTZ camera.
11	Logical Tree window	Displays the devices your user group has access to. Allows you to select a device for assigning it to an Image pane.
	Favorites Tree	Allows you to organize the devices of the Logical Tree as required.
	Bookmarks window	Allows to manage bookmarks.

See also

- Menu commands, page 41
- Logical Tree window, page 44
- Favorites Tree window, page 44
- PTZ Control window, page 46
- Image window, page 47
- Image pane, page 48

9.2 Playback Mode

See also

- Menu commands, page 41
- Logical Tree window, page 44
- Favorites Tree window, page 44
- Exports window, page 46
- PTZ Control window, page 46
- Image window, page 47
- Image pane, page 48
- Timeline window, page 48
- Motion Search Results window, page 58
 - Video Search Results window, page 59

Used icons 9.3

The following table lists the icons used in Operator Client. For the icons used in the Timeline see chapter Timeline window, page 48.

Some of the following icons are not available in Bosch VMS Archive Player.

: Root node of the Logical Tree (user assigned name of the Logical Tree).

b: Operator Client is connected to a Management Server.

: New configuration available. Log off and log on again to accept.

Management Server has a previous version.

 $^{\bigstar}$: Click to close all open Image panes. This icon has the same function as the shortcut for closing all Image panes.



: Indicates an unmanaged site which is not connected.

: Indicates an unmanaged site in another time zone than the Operator Client computer.



Indicates an unmanaged site to which a connection is being established.

Indicates an unmanaged site which is completely connected. This means that all devices of this site are connected.



I: Indicates an unmanaged site which is partially connected. This means that not all devices of this site are connected.

: Click to disconnect all connected unmanaged sites. Partially connected sites are not disconnected.

😎: Indicates a panoramic camera.





Letter in an intrusion panel.



Area is armed.

Area is disarmed.

Point configured in an intrusion panel and in the state unbypassed.

👫: Point is in the state bypassed.

Point is in alarm state.

: Door configured in an intrusion panel.

: Door is secured.

: Door is locked. : Door is unlocked.

💐: License not available

🗥: Not connected

: Primary VRM

: Secondary VRM

퉫 : Secondary Failover VRM

1: Indicates the source of the displayed recording: Primary VRM recording. On the Image pane toolbar, click to change the recording source (only available, if Secondary VRM or ANR is configured).

2: Indicates the source of the displayed recording: Secondary VRM recording. On the Image pane toolbar, click to change the recording source.

A: Indicates that ANR provides playback. On the Image pane toolbar, click to change the recording source.

: Indicates that the Primary Failover VRM provides playback. On the Image pane toolbar, click to change the recording source (only available, if Secondary VRM or ANR is configured).

: Indicates that the Secondary Failover VRM provides playback. On the Image pane toolbar, click to change the recording source.

• Indicates that the Encoder provides playback. On the Image pane toolbar, click to change the recording source (only available, if Secondary VRM or ANR is configured).

• Indicates that the Encoder provides playback. On the Image pane toolbar, click to change the recording source.

E: Text data available

: Text data not available

× : Unavailable. For a Management Server: No configuration available



Not authorized

)

: Live Mode

: Playback Mode

: Management Server is located in another time zone.

: Slider to adjust audio volume of all Image panes.

: Audio on / off





: Click to display Live or Playback Mode again when the Alarm Image window is displayed.

See also

Timeline window, page 48

9.4 Menu commands

System menu commands		
Playback Mode / Live Mode	Switches to Playback or Live Mode depending on the current state.	
Change Password	Displays a dialog box for entering a new password.	
Logoff	Exits the program and displays the dialog box for logging on.	
Exit	Exits the program.	
Camera menu commands		
Save Image	Displays a dialog box for saving an image of the selected camera.	
Print Image	Displays a dialog box for printing an image of the selected camera.	
Audio On / Audio Off	Turns audio of the selected camera on or off.	

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	Record Camera	Starts recording of the selected camera. The Alarm recording Mode quality level is used.
	Instant Playback	Starts playback of the selected camera for the configured rewind time. (Not in Playback Mode)
	Reference Image	Displays the Reference Image dialog box for the currently selected Image pane. (Not in Playback Mode)
	Close	Closes the selected Image pane.
Tool	s menu commands	
	Toggle Image Pane Bars	Hides or displays the Image pane bars.
	Show Less Image Panes	Decreases the number of displayed Image panes.
	Show More Image Panes	Increases the number of displayed Image panes.
Timeline menu commands (Playback Mode only)		
	First Recording	Moves the hairline to the oldest recording.
	Last Recording	Moves the hairline to the latest recording.
	Play	Plays forward starting from the current position of the hairline.
	Pause	Stops playback at the current position. Click Play to resume.
	Reverse Play	Plays backward from the current position of the hairline.
	Protect Video	Displays the Protect Video dialog box.
	Unprotect Video	Displays the Unprotect Video dialog box.
	Restrict Video	Displays the Restrict Video dialog box.
	Unrestrict Video	Displays the Unrestrict Video dialog box.
	Delete Video	Displays the Delete Video dialog box.
	Export Video	Displays the Export Video dialog box.
	Load Exported Video	Displays a dialog box for selecting an export file. The exported file is then displayed in the Exports Tree.
Extras menu commands		
	Add Favorite	Saves the current Image pane pattern as a View in the Favorites Tree .
	Add Bookmark	Displays the Add Bookmark dialog box.

Мι	ıte System	Turns off audio of the available Image panes and the alarm sound.
Ор	tions	Displays the Options dialog box.
De	fault Settings	Restores the settings for monitor layout, user interface and options to the factory default settings.
La	st Settings	Restores the settings for monitor layout, user interface and options to the last loaded settings.
Help me	nu commands	
Dis	splay Help	Displays the Bosch VMS Online Help.
Ab	out	Displays a dialog box containing information on the installed system, for example the version number.

9.5 **Options dialog box**

Main window > Extras menu > Options... command Allows you to configure parameters for using Operator Client.

9.5.1 **Control tab**

Control tab

Dwell time for automatic sequences [s]

Enter the required number of seconds a camera is to be displayed in an Image pane. This time is also valid for alarm sequences.

PTZ Control Speed

Move the slider to adjust the control speed for PTZ cameras.

Rewind time of instant playback [s]

Enter the amount of seconds for the rewind time of instant playback.

9.5.2 **Display tab**

Display tab

Image pane aspect ratio

For each connected monitor select the required aspect ratio for the Image panes in Operator Client. Use 16:9 for HD cameras. This setting overrides the setting that was made in Configuration Client for the initial startup of Operator Client.

Display Logical Number

Select to display the logical number of a camera in the Logical Tree.

IP address visible in print and save

Select to make the IP addresses of devices in the Logical Tree available in printed or saved images.

Text Data Position

Select the desired option for the location of the text data pane when clicking on \square .

9.6

Logical Tree window



Main window :

Displays the hierarchical structure of all the devices your user group has access to.

If you logged on to an Enterprise Management Server, the server name is displayed as a prefix to the camera name.

Only an administrator can create or change the Logical Tree in the Configuration Client. Allows you to drag an item to the following elements of the user interface:

Camera, map, document to an Image pane

- Each item to the Favorites Tree window
- Map to Map window
- Camera to the Monitors window

See also

- Arranging and resizing Image panes, page 20
- Displaying a camera in an Image pane, page 19
- Adding items to the Favorites Tree, page 24

9.7 Search dialog box



tab > Right-click the root node> Click **Tree Search** Main window or



tab > Right-click an item > Click **Tree Search**

Allows you to find an item in the Logical Tree

Search for:

Main window >

Type a search string representing the display name of an item. Use * and ? as wildcards.

Previous

Click to mark the previous item that matches the search string.

Next

Click to mark the next item that matches the search string.

Find

Click to mark the first item that matches the search string.

Close

Click to close the dialog box.

9.8

Favorites Tree window



or



You can add every item of the Logical Tree to a view in the Favorites Tree to create your own subset of the Logical Tree. At any time you can display the view or add or delete devices in a view.

When saving a view in the Favorites Tree, you save the following settings:

- The assignment of cameras or other objects to Image panes
- The Image pane pattern
- The current setting of the digital zoom
- The image section
- The selected stream (only available for Live Mode)

See also

- Adding items to the Favorites Tree, page 24
- Creating/editing views, page 25

9.9 Bookmarks window

Main window >

or

Main window >

You can save a time period of live view or a recording in a bookmark. A bookmark saves a start and an end time, the cameras assigned to Image window at this time, and the entire Image

pane pattern. A time period of 0 seconds is possible. Bookmarks are saved in the pane. Deleting a bookmark does not affect the corresponding recordings. You cannot add or remove cameras from a bookmark. To change a bookmark, load it, make your changes and save it. If a recording is deleted, the corresponding bookmark is not synchronized. If loaded, a black Image pane is displayed.

If you have logged on to an Enterprise Management Server, the camera name is displayed with the name of this camera's Management Server as a prefix.

Note: Do not add more than 4 cameras in one bookmark to avoid performance issues when loading the bookmark.

See also

- Editing a bookmark, page 26
- Loading a bookmark, page 26

9.10 Add Bookmark dialog box



Main window > Assign desired cameras to the Image window > 🖷



You can save a time period of live view or a recording in a bookmark. A bookmark saves a start and an end time, the cameras assigned to Image window at this time, and the entire Image

pane pattern. A time period of 0 seconds is possible. Bookmarks are saved in the pane. Deleting a bookmark does not affect the corresponding recordings. You cannot add or remove cameras from a bookmark. To change a bookmark, load it, make your changes and save it. If a recording is deleted, the corresponding bookmark is not synchronized. If loaded, a black Image pane is displayed.

If you have logged on to an Enterprise Management Server, the camera name is displayed with the name of this camera's Management Server as a prefix.

Note: Do not add more than 4 cameras in one bookmark to avoid performance issues when loading the bookmark.

Start Time

In the lists, select date and time.

End Time

In the lists, select date and time.

Sources

Displays the cameras that belong to this bookmark.

See also

- Adding a bookmark, page 25

9.11 Exports window

You can import exported video data, display it in an Image pane, search for particular data in it, and unload it again.

See also

- Exporting video data, page 32
- Loading exported video, page 33
- 9.12 PTZ Control window



Main window >



The window becomes active when a PTZ camera or a swiveling/tilting camera is displayed in the selected Image pane.

FZ Control tab

Allows you to control a camera with the corresponding functions displayed in the selected Image pane.



when a non-PTZ camera is selected.



Click an arrow or drag the joystick in the center to swivel the

camera in all directions.



Click to zoom in the picture angle (zoom angle) / zooming out the picture

angle (wide angle).



Click to set the focus near / focus far.

Click to close the iris / open the iris.

Prepositions:

Select an entry to move the PTZ control to the predefined position.

F

Click to save the current position of the PTZ camera to the selected preposition entry.

AUX Commands:

Select an entry to execute this command.

Click to get step-by-step instructions:

- Controlling PTZ cameras

9.13 Image window

Main window



Displays a variable number of Image panes. Minimum is 1 Image pane. You can display one camera in several Image panes simultaneously.

See also

- Arranging and resizing Image panes, page 20

9.14 Image pane

Main window

Bosch VMS Archive Player offers only a restricted feature set.

See also

Used icons, page 38

9.15 Timeline window

Allows you to control the playback of recorded videos. You can display several cameras simultaneously.

Audio playback is only possible when you play the video in normal speed.

If you are authorized to display recorded videos, you can also listen to the accompanying audio recording.

If you select another time zone, the Timeline is changed accordingly.

Allows you to navigate through recorded videos. The playback of all displayed Image panes is synchronized.

Many features enable the precise finding of scenes you are searching for.

The Timeline for VRM recordings in Operator Client and Bosch VMS Archive Player displays the following information indicated by a color or hatching:

VRM recording	Color
Continuous recording	Dark gray-blue
Results of motion search	White
No recording	Light gray
Protected video	White diagonal stripes
Restricted video	Red diagonal stripes

See also

- Changing the playback speed, page 29
- Using the Timeline, page 29
- Finding motion, page 34
- Exporting video data, page 32
- Protecting video, page 30
- Restricting video, page 30
- Deleting video data, page 31
- Exporting video data, page 32
- Loading exported video, page 33

9.16 Motion Search dialog box

Allows you to set up a search filter for motion in designated areas of a camera image. You select the zones where you want to detect motion. You can search for motion only in the selected Image pane.

See also

Finding motion, page 34

9.17 Delete Video dialog box

Main window >



Timeline tab > Move the Hairline to the desired position > On

the Timeline menu, click Delete Video...

Allows you to delete video data from the beginning of the recording to the position of the hairline.



Notice!

You cannot delete the data of a local storage device.

See also

Deleting video data, page 31

Forensic Search dialog box 9.18



Main window >



Timeline tab > Select time period with Hairline > Click

Forensic search is only available for VRM recordings.

Allows you to find video data with selecting a Forensic Search type, for example Intelligent Video Analytics. You configure the Forensic Search in the Surveillance Tasks field. You can search for motion only in the selected Image pane.

Algorithm:

Select the required analysis algorithm. By default, only MOTION+ is available - this offers a motion detector and essential recognition of tampering. The current alarm status is displayed for information purposes.



Notice!

Additional analysis algorithms with comprehensive functions such as Intelligent Video Analytics are available.

If you select one of these algorithms, you can set the corresponding parameters directly.

Presets:

Select an entry to load Forensic Search settings that you have saved earlier.



Click to save the settings for the Forensic Search. You can enter a descriptive name.

Start:

The current position of the Hairline is displayed.

Enter the point in time when the search starts.

If you uncheck, all recordings until the specified end date are searched.

End:

The current position of the Hairline is displayed.

Enter the point in time when the search ends.

If you uncheck, all recordings beginning with the specified start date are searched.

🞜 Click to update the selection in the Timeline with the data of the **Start:** and **End:** fields.

Only the selected video is managed.

Surveillance Tasks

Configure your Forensic Search. See the user documentation of the Intelligent Video Analytics version that you are using.

Search

Click to start the Forensic Search.

See also

Performing a Forensic Search (only VRM recordings), page 33

9.19 **Restrict Video dialog box**

Main window > Timeline menu > Restrict Video... command > Restrict Video dialog box

You can restrict the recordings of cameras connected to the following DIVAR AN devices:

- DIVAR AN 3000
- DIVAR AN 5000

When restricted, an unauthorized user cannot display the recordings of these cameras.

The DIVAR AN devices can be connected to Bosch VMS either locally under 🗯 or as an

unmanaged site under

For restricting you need the corresponding permission.

Start:

The current selection of the Hairline is displayed. If you uncheck, all recordings until the specified end date are restricted.

End:

The current selection of the Hairline is displayed.

If you uncheck, all recordings beginning with the specified start date are restricted.



Notice!

Unrestricting / unprotecting a selected time period can possibly unrestrict / unprotect the entire contiguous restricted / protected time period of this camera, even outside the selected time period.

Restrict

Click to restrict the selected time period.

See also

- Restricting video, page 30

9.20 Unrestrict Video dialog box

Main window > Timeline menu > Unrestrict Video... command > Unrestrict Video dialog box

You can unrestrict the recordings of cameras connected to the following DIVAR AN devices:

- DIVAR AN 3000
- DIVAR AN 5000

The DIVAR AN devices can be connected to Bosch VMS either locally under 🐃 or as an

unmanaged site under 📢

For unrestricting you need the corresponding permission.

Start:

The current selection of the Hairline is displayed. If you uncheck, all recordings until the specified end date are unrestricted.

End:

The current selection of the Hairline is displayed. If you uncheck, all recordings beginning with the specified start date are unrestricted.



Notice!

Unrestricting / unprotecting a selected time period can possibly unrestrict / unprotect the entire contiguous restricted / protected time period of this camera, even outside the selected time period.

Unrestrict

Click to unrestrict the selected time period.

See also

Restricting video, page 30

9.21 Protect Video dialog box

Main window >

Timeline menu > Protect Video... command > Protect Video dialog

Allows you to protect the selected video data.



Notice!

box

You cannot protect the data of a local storage device.

Start:

The current selection of the Hairline is displayed. Enter the point in time when the protection starts. If you uncheck, all recordings until the specified end date are protected.

End:

The current selection of the Hairline is displayed. Enter the point in time when the protection ends. If you uncheck, all recordings beginning with the specified start date are protected.

	Notice!
i	Unrestricting / unprotecting a selected time period can possibly unrestrict / unprotect the entire contiguous restricted / protected time period of this camera, even outside the
	selected time period.

Protect

Click to protect the selected time period.

Unprotect Video dialog box

See also

Protecting video, page 30

9.22

Main window > Timeline menu > Unprotect Video... command > Unprotect Video dialog box

Allows you to protect the selected video data.

Start:

The current selection of the Hairline is displayed. Enter the point in time when the protection starts. If you uncheck, all recordings until the specified end date are unprotected.

End:

The current selection of the Hairline is displayed. Enter the point in time when the protection ends. If you uncheck, all recordings beginning with the specified start date are unprotected.



Notice!

Unrestricting / unprotecting a selected time period can possibly unrestrict / unprotect the entire contiguous restricted / protected time period of this camera, even outside the selected time period.

Unprotect

Click to unprotect the selected time period.

See also

Protecting video, page 30

9.23

Delete Video dialog box

Main window > Timeline menu > Delete Video... command > Delete Video dialog box Allows you to delete video data.



Notice!

You cannot delete the data of a local storage device.

Start:

The current selection of the Hairline is displayed. Enter the point in time when the deletion starts. If you uncheck, all recordings until the specified end date are deleted.

End:

The current selection of the Hairline is displayed. Enter the point in time when the deletion ends. If you uncheck, all recordings beginning with the specified start date are deleted.

Delete

Click to delete the selected time period.

See also

Deleting video data, page 31

9.24 Export Video dialog box

When the verification of authenticity is enabled in Configuration Client, each export is automatically checked.



Notice!

You cannot export the data of a local storage device.

Export of a panoramic camera

When you export the recordings of a panoramic camera you always export the full image circle. If you export multiple cropped Image panes of the same panoramic camera, the full image circle of this camera is exported only once. This also applies for the export of non-panoramic cameras.

Unencrypted export

You can export video and audio data to a local drive, a CD/DVD drive, a Blu-Ray disk, a network drive, or a USB drive.

Note: If you use a USB drive, use a fast USB device to avoid failures.

The data is exported in native (Bosch VMS Archive Player), ASF or in MOV format. When you export a video in native format, you can add Bosch VMS Archive Player as a viewer. Data in MOV format can be played with standard software such as QuickTime from Apple. You export the video and audio data of the selected cameras.

Only in an Enterprise System: You can select a remote Management Server to perform the export there. You can only export the recordings of the cameras that are managed by the selected Management Server.

Only one export at a time can run on a workstation.

Note: You need a permission for each camera that you want to export.

If exporting video data on a hard drive was not successful for multiple cameras, the completely exported video data of cameras is retained. The data of an uncomplete export process of a camera is deleted.

If the user cancels the export, the already exported video data of this export process is deleted.

The video export without providing a password creates an unencrypted file with the extension .info and the unencrypted video data files in subfolders. The operator must select the .info file when loading this unencrypted export.

Encrypted export

When a password is provided for a video export, a file with the extension .encr and the encrypted video data files in subfolders are created.

For loading the encrypted export, the operator must select the encrypted .encr file and type in the correct password.

The .encr file and the encrypted video data files are indicated by a specific file icon. If a file in the subfolders of an encrypted export is deleted or tampered, you cannot import this encrypted export.

If exporting video data on a hard drive was not successful or the user cancels the export, the already exported video data of this export process is deleted.

Export on multiple discs

Encrypted export and export into a single ZIP file are not possible on multiple CDs/DVDs/Blu-Ray discs. If the export fits on a single CD/DVD/Blu-Ray disc, encrypted export on a CD/DVD/ Blu-Ray disc is possible.

Recordings that were selected for export and that are to be exported to CD/DVD/Blu-Ray discs, are first written to the local hard drive and then written to one or more writeable discs. Unencrypted export on multiple discs is only supported for native format. Exporting with ASF or MOV format only works when it fits on one disc.

The first inserted disc determines the media type of all following discs.

If recordings were exported to multiple CD/DVD/Blu-Ray discs, and you must view all exported cameras in all exported time periods, copy the content of all discs to your hard drive. You can ignore all occurring overwrite warnings.

You can view the recordings exported to a single disc out of a group of discs that were created during an export.

If exporting video data on a CD/DVD/Blu-Ray disc was not successful or the user cancels the export, the already exported video data of this export process is retained.

Name:

Type the name for the exported file.

Start:

Select the check box to set a start time for exporting. In the lists, select date and time.

End:

Select the check box to set an end time for exporting. In the lists, select date and time.

Encrypt Export

Click to select encryption for this export.

Password:

Type in a password for your encrypted export. Confirm this password in the **Confirm password:** field.

Export as single ZIP file

Select to store the exported files in a single ZIP file. You use the ZIP file format to store all exported files in a single file, compression of the data is not available. On a FAT32 partition, the maximum file size of the ZIP file is 4 GB.

Remote Export

Click to enable remote export. You can select a Management Server of your Enterprise System. On this Management Server the export is performed. Ensure that the desired storage media is available.

Finalize Disk

Click to select that the data medium is finalized after the successful burning process. After finalizing no further data can be burned on the data medium.

Comment:

Enter a comment for the export.

Cancel

Click to save the dialog settings until you start Operator Client the next time.

See also

- Exporting video data, page 32
- Exporting into a single file, page 32

9.25 Export Bookmark dialog box

Main window > => Right-click a bookmark > Export Bookmark command > Export Bookmark dialog box

Allows you to export video data of a bookmark in Bosch VMS Archive Player, ASF or MOV format. You can change the time period for the export. For each camera, a subfolder is created in the target folder.

Export of a panoramic camera

When you export the recordings of a panoramic camera you always export the full image circle. If you export multiple cropped Image panes of the same panoramic camera, the full image circle of this camera is exported only once. This also applies for the export of non-panoramic cameras.

Unencrypted export

You can export video and audio data to a local drive, a CD/DVD drive, a Blu-Ray disk, a network drive, or a USB drive.

Note: If you use a USB drive, use a fast USB device to avoid failures.

The data is exported in native (Bosch VMS Archive Player), ASF or in MOV format. When you export a video in native format, you can add Bosch VMS Archive Player as a viewer. Data in MOV format can be played with standard software such as QuickTime from Apple. You export the video and audio data of the selected cameras.

Only in an Enterprise System: You can select a remote Management Server to perform the export there. You can only export the recordings of the cameras that are managed by the selected Management Server.

Only one export at a time can run on a workstation.

Note: You need a permission for each camera that you want to export.

If exporting video data on a hard drive was not successful for multiple cameras, the completely exported video data of cameras is retained. The data of an uncomplete export process of a camera is deleted.

If the user cancels the export, the already exported video data of this export process is deleted.

The video export without providing a password creates an unencrypted file with the extension .info and the unencrypted video data files in subfolders. The operator must select the .info file when loading this unencrypted export.

Export on multiple discs

Encrypted export and export into a single ZIP file are not possible on multiple CDs/DVDs/Blu-Ray discs. If the export fits on a single CD/DVD/Blu-Ray disc, encrypted export on a CD/DVD/ Blu-Ray disc is possible.

Recordings that were selected for export and that are to be exported to CD/DVD/Blu-Ray discs, are first written to the local hard drive and then written to one or more writeable discs. Unencrypted export on multiple discs is only supported for native format. Exporting with ASF or MOV format only works when it fits on one disc.

The first inserted disc determines the media type of all following discs.

If recordings were exported to multiple CD/DVD/Blu-Ray discs, and you must view all exported cameras in all exported time periods, copy the content of all discs to your hard drive. You can ignore all occurring overwrite warnings.

You can view the recordings exported to a single disc out of a group of discs that were created during an export.

If exporting video data on a CD/DVD/Blu-Ray disc was not successful or the user cancels the export, the already exported video data of this export process is retained.

Name:

Type the name for the exported file.

Start:

Select the check box to set a start time for exporting. In the lists, select date and time.

End:

Select the check box to set an end time for exporting. In the lists, select date and time.

Encrypt Export

Click to select encryption for this export.

Password:

Type in a password for your encrypted export. Confirm this password in the **Confirm password:** field.

Remote Export

Click to enable remote export. You can select a Management Server of your Enterprise System. On this Management Server the export is performed. Ensure that the desired storage media is available.

Finalize Disk

Click to select that the data medium is finalized after the successful burning process. After finalizing no further data can be burned on the data medium.

Comment:

Enter a comment for the export.

See also

Exporting bookmarks, page 27

9.26 Export Multiple Bookmarks dialog box

Main window > Let > Right-click a bookmark > Export Multiple Bookmarks command > Export Video dialog box

Allows you to export video data of multiple bookmarks in Bosch VMS Archive Player, ASF or MOV format. This way you can export different time periods of the same or different cameras in one process. For each camera, a subfolder is created in the target folder.

Export of a panoramic camera

When you export the recordings of a panoramic camera you always export the full image circle. If you export multiple cropped Image panes of the same panoramic camera, the full image circle of this camera is exported only once. This also applies for the export of non-panoramic cameras.

Unencrypted export

You can export video and audio data to a local drive, a CD/DVD drive, a Blu-Ray disk, a network drive, or a USB drive.

Note: If you use a USB drive, use a fast USB device to avoid failures.

The data is exported in native (Bosch VMS Archive Player), ASF or in MOV format. When you export a video in native format, you can add Bosch VMS Archive Player as a viewer. Data in MOV format can be played with standard software such as QuickTime from Apple. You export the video and audio data of the selected cameras.

Only in an Enterprise System: You can select a remote Management Server to perform the export there. You can only export the recordings of the cameras that are managed by the selected Management Server.

Only one export at a time can run on a workstation.

Note: You need a permission for each camera that you want to export.

If exporting video data on a hard drive was not successful for multiple cameras, the completely exported video data of cameras is retained. The data of an uncomplete export process of a camera is deleted.

If the user cancels the export, the already exported video data of this export process is deleted.

The video export without providing a password creates an unencrypted file with the extension .info and the unencrypted video data files in subfolders. The operator must select the .info file when loading this unencrypted export.

Export on multiple discs

Encrypted export and export into a single ZIP file are not possible on multiple CDs/DVDs/Blu-Ray discs. If the export fits on a single CD/DVD/Blu-Ray disc, encrypted export on a CD/DVD/ Blu-Ray disc is possible.

Recordings that were selected for export and that are to be exported to CD/DVD/Blu-Ray discs, are first written to the local hard drive and then written to one or more writeable discs. Unencrypted export on multiple discs is only supported for native format. Exporting with ASF or MOV format only works when it fits on one disc.

The first inserted disc determines the media type of all following discs.

If recordings were exported to multiple CD/DVD/Blu-Ray discs, and you must view all exported cameras in all exported time periods, copy the content of all discs to your hard drive. You can ignore all occurring overwrite warnings.

You can view the recordings exported to a single disc out of a group of discs that were created during an export.

If exporting video data on a CD/DVD/Blu-Ray disc was not successful or the user cancels the export, the already exported video data of this export process is retained.

Name:

Type the name for the exported file.

Include Viewer

Click to select that a setup for Bosch VMS Archive Player is stored in the location selected under **Target**.

Encrypt Export

Click to select encryption for this export.

Password:

Type in a password for your encrypted export. Confirm this password in the **Confirm password:** field.

HDD

Click to select a folder on a hard disk partition for exporting.

CD/DVD/Blu-Ray

In the list, select a writer device for exporting. Enable **Finalize Disk**, if you do not want to burn further data on the data medium.

Bookmarks

In the list, select the bookmarks that you want to export.

Finalize Disk

Click to select that the data medium is finalized after the successful burning process. After finalizing no further data can be burned on the data medium.

Comment:

Enter a comment for the export.

See also

Exporting bookmarks, page 27

9.27 Export dialog box

Allows you to view information on the performed export and to display the results of the authenticity verification that is automatically performed on every export.

Verification Details

Click to display the **Authenticity Verification Result** dialog box. This button is only available if authentication issues were found.

See also

- Exporting video data, page 32
 - Exporting into a single file, page 32

9.28 Motion Search Results window

Displays entries for video data containing motion for the camera displayed in the selected Image pane. You can select an entry for playback, protection, authenticity checking, archiving, or export.

Displays the recordings that match the search criteria.

See also

- Performing a Forensic Search (only VRM recordings), page 33

- Exporting video data, page 32
- Finding motion, page 34

9.29 Video Search Results window



Displays entries for video data matching different search criteria. You can select an entry for playback, protection, authenticity checking, archiving, or export.

Allows you to play the recordings that match the search criteria.

tab

10 Keyboard shortcuts

This section lists the available keyboard shortcuts for a US keyboard layout. + indicates that each key must be pressed simultaneously (for example, Control+z means to press the Control key and the z key simultaneously).

On your Setup CD you find an Acrobat file for printing. The name of this file is keyboard_layout_en.pdf.

10.1 General controls

То	Press
Display Online Help	F1
Rename (for example in favorites)	F2

10.2 Playback controls

То	Press
Play / Pause	Space
Previous frame	,
Next frame	
Set direction to forward	Enter
Set direction to backward	Backspace
Jump to oldest recording	Home
Jump to latest recording	End
Increase playback speed	Page Up
Decrease playback speed	Page Down

10.3 Image window controls

The following keyboard shortcuts only work when the Image window has the focus.

То	Press
Move selected Image pane	Cursor keys
Close Image pane	Delete,
Close all Image panes	Control + Delete
Show less Image panes	F7
Show more Image panes	F8
Show / hide Image pane bars	F9

Glossary

ANR

Automated Network Replenishment. Integrated process that copies missing video data from a video transceiver to the network video recorder after a network failure. The copied video data exactly fills the gap that occurred after the network failure. Hence the transceiver needs any kind of local storage. The recording capacity on this local storage is calculated with the following formula: (network bandwidth x estimated network downtime + safety margin) x (1 + 1/backup speed). The resulting recording capacity is required because the continuous recording must continue during the copy process.

area

A group of detection devices connected to the security system.

ASF

Advanced Systems Format; Microsoft Windows media audio and video format.

authenticity

State of a recorded video that indicates its originality. That means, the recorded video is not manipulated.

bookmark

Used for storing a time period of live or recorded video. This allows for tagging particular scenes for later investigation. Additionally you can share your investigation results with other users by exporting a bookmark.

bypass

Selectively remove points from the security system. A point may be bypassed in order to arm the perimeter with a window open.

dewarping

The use of software to convert a circular image from a fisheye lens with radial distortion to a rectilinear image for normal viewing (dewarping is the correction of distortion).

Encoder

Changes an analog stream to a digital stream, e.g., to integrate analog cameras in a digital system like Bosch Video Management System. Some encoders can have a local storage like a flash card, a USB hard disk, or they can store their video data on iSCSI devices. IP cameras have an encoder built in.

Failover VRM

Software in the Bosch VMS environment. Takes over the task of the assigned Primary VRM or Secondary VRM in case of failure.

Image pane

Used for displaying live and recorded video of a single camera, a map, or an HTML file.

Image pane pattern

Arrangement of Image panes.

Image window

Container for Image panes, structured by an Image window pattern.

Instant playback

Plays the recorded image of the selected camera in an Image pane on the live screen. The start time (number of seconds in the past, or rewind time) can be configured.

Intelligent Video Analytics

Algorithm that detects specific properties and the behavior of objects in a scene monitored by a video camera and from this generates alarm events that, in turn, can be processed in a CCTV system. Recording with Intelligent Video Analytics settings activated is a precondition to be able to selectively and quickly search through video material later. Intelligent Video Analytics makes it possible to capture and evaluate directional movement of objects in such a way that false alarms are prevented to a large extent. Intelligent Video Analytics adapts automatically to changing environmental conditions and is therefore largely non-sensitive to perturbing influences such as rain and tree movement. Especially when used for forensic search, Intelligent Video Analytics allows for filtering moving objects by their color specifications. With the aid of Intelligent Video Analytics algorithm extensive video material can be searched selectively for objects with specific color properties.

Logical number

Logical numbers are unique IDs assigned to each device in the system for ease of reference. Logical numbers are only unique within a particular device type. Typical use of logical numbers are Command Scripts.

Logical Tree

Tree with a customized structure of all the devices. The Logical Tree is used in the Operator Client to select cameras and other devices. In the Configuration Client, the "Full Logical Tree" is configured (on the Maps and Structure page) and tailored for each user group (on the User Groups page).

Management Server

Bosch VMS server managing devices.

MOV

File extension of the default video format used by QuickTime Player from Apple.

Panoramic camera

Camera with a 360° or 180° view angle.

Playback Mode

Feature of Operator Client. Used to playback and search through archived videos.

point

A detection device connected to the security system. Points show on the keypad individually and with custom text. The text might describe a single door, motion sensor, smoke detector, or an protected space such as UPSTAIRS or GARAGE.

PTZ camera

Camera with pan, tilt, and zoom function.

Rewind time

Number of seconds in the past when an Image pane is switched to instant playback.

Secondary VRM

Software in the Bosch VMS environment. Ensures that the recording performed by one or multiple Primary VRMs is additionally and simultaneously performed to another iSCSI target. The recording settings can deviate from the settings of the Primary VRM.

Timeline

Part of the Bosch Video Management System user interface. Displays lines as graphical representations of the recordings of the selected cameras. The Timeline allows you to navigate through recorded videos.

unmanaged site

Item of the Device Tree in Bosch VMS that can contain video network devices like Digital Video Recorders. These devices are not managed by the Management Server of your system. The user of Operator Client can connect to the devices of an unmanaged site on demand.

User group

User groups are used to define common user attributes, such as permissions, privileges and PTZ priority. By becoming a member of a group, a user automatically inherits all the attributes of the group.

UTC

Universal Time Coordinated

view

Collection of cameras assigned to Image panes that you can recall for instant live viewing. Image panes with maps or HTML files can be part of a view. Sequences cannot be part of a view.

VRM

Video Recording Manager. Software package in Bosch Video Management System which manages storing video (MPEG-4 SH++ and H.264) with audio data and metadata on iSCSI devices in the network. VRM maintains a database containing the recording source information and a list of associated iSCSI drives. VRM is realized as a service running on a computer in the Bosch Video Management System network. VRM does not store video data itself but distributes storage capacities on iSCSI devices to the encoders, while handling load balancing between multiple iSCSI devices. VRM streams playback from iSCSI to Operator Clients.

Index

Α	
accessing the Help	5
add bookmark	25
area	38
authenticity	48
В	
 bookmark	24
add	25
display	26
edit	24, 26, 45, 46
load	26
save	25
Bosch Video Management System	
Online Help	5
Bosch VMS Archive Player	53, 55, 57
C	
cameo	19, 20, 22, 48
cameo space	47
color	48
D	
D data shoot	0
dalata video	0
digital zoom	48
displaying	25
screeps	18
	10
E	
edit bookmark	26
entire screen	21
export	
split	54, 56, 57
video	48, 53, 55, 57
F	
Favorite	25
finding	
information in the Help	5
Forensic Search	33
full-screen mode	21
G	
general settings	43
н	
Hairline	48
HD camera	43
help	5.6
HTML files	47
1	-11
l	20
ICOHS	38

Image pane	19, 20, 22, 48
image section	25
Images window	47
instant playback	22
instant replay	22
intrusion panel	38
L	
Live Mode	36
live video	36, 47
Μ	
Management Server	8
map	47
motion search	33
Ν	
NVR	8
0	
online application Help	5
options	43
D	
■ panoramic camera	
viewing modes	20
playback video	47
point in time	48
printing the Help	6
protect video	48
PTZ control	46
R	
Release Notes	8
remote export	53, 55, 57
resize	20
restrict video	30, 50
S	
save bookmark	25
search for motion	33, 48
shortcuts	60
smart motion search	48
sound	36
specific event	48
split export	54, 56, 57
switch	
panoramic viewing mode	20
system requirements	8
т	
time zone	16, 37, 48
Timeline	48
toolbar	22

Bosch Sicherheitssysteme GmbH

U

0	
unrestrict video	51
used icons	38
V	
VCA	
disable	22, 34
enable	22, 34
video	
export	53, 55, 57
View	25
view camera	19
viewing	
screens	18
viewing modes of panoramic camera	20
Z	
 ZIP export	32

Bosch Sicherheitssysteme GmbH

Robert-Bosch-Ring 5 85630 Grasbrunn Germany **www.boschsecurity.com** © Bosch Sicherheitssysteme GmbH, 2017