

# Operating Manual DiBos

---



## Table of Contents

<b>STARTING THE PROGRAM / LOGGING ON TO THE SYSTEM.....</b>	<b>3</b>
STARTING THE PROGRAM .....	3
LOG ON TO THE SYSTEM .....	3
<b>THE USER INTERFACE .....</b>	<b>4</b>
THE SCREEN LAYOUT WHEN THE SYSTEM STARTS .....	4
<b>LIVE MODE .....</b>	<b>5</b>
THE USER INTERFACE IN LIVE MODE .....	5
THE MENU BAR IN LIVE MODE .....	6
THE DISPLAY BAR .....	7
THE DEVICE LIST IN LIVE MODE .....	8
THE CONTROL AND STATUS FIELD.....	9
THE IMAGE AREA IN LIVE MODE.....	15
THE IMAGE WINDOW .....	17
THE EVENT FIELD .....	18
<b>PLAYBACK MODE .....</b>	<b>20</b>
THE USER INTERFACE IN PLAYBACK MODE .....	20
THE MENU BAR IN PLAYBACK MODE .....	21
THE DISPLAY BAR .....	23
THE DEVICE LIST IN PLAYBACK MODE .....	24
THE IMAGE AREA IN PLAYBACK MODE .....	25
THE IMAGE WINDOW .....	27
THE TIMELINE AREA .....	28
<b>OPERATING PROCEDURES - LIVE / PLAYBACK MODE.....</b>	<b>34</b>
DISPLAY INCOMING ALARMS .....	34
CREATING/EDITING FAVORITES .....	35
DISPLAY LOGBOOK .....	37
START/EXIT CAMERA ROUND .....	38
LOG OFF / CHANGE USER .....	38
<b>OPERATING PROCEDURES - LIVE MODE.....</b>	<b>39</b>
FILTER EVENT LIST .....	39
ZOOM / CONTROL DOME CAMERAS AND PAN/TILT CAMERAS.....	40
<b>OPERATING PROCEDURES - PLAYBACK MODE.....</b>	<b>42</b>
SEARCH FOR MOTION .....	42
SEARCH FOR ADDITIONAL DATA.....	43
EXPORTING FILES.....	44
IMPORT EXPORTED FILES .....	45
AUTHENTICATE IMAGES FROM SEVERAL CAMERAS.....	46
AUTHENTICATE A SINGLE IMAGE .....	46
PROTECT VIDEO .....	47
DELETE VIDEO .....	47
<b>THE ICON LIST .....</b>	<b>48</b>
LIST OF ICONS.....	48

## Starting the program / logging on to the system

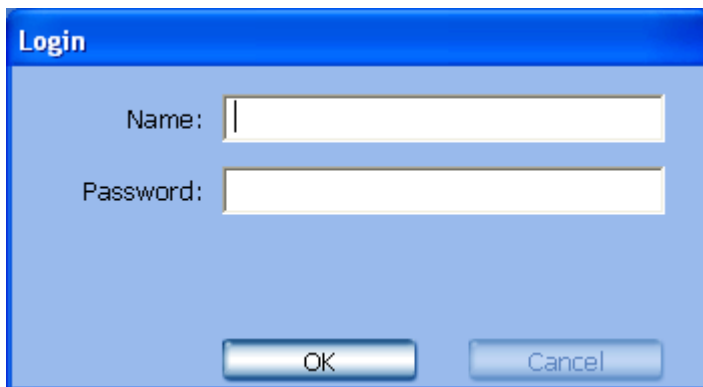
### Starting the program

When installation is complete, you can start the program.

1. Switch on the computer and wait until the desktop appears.
2. Double-click on the DiBos icon on your desktop or select "Start - All Programs - DiBos". The program is started and the log-on dialog box appears.

### Log on to the system

After the program has started, the dialog box for logging on to the system appears.



The image shows a standard Windows-style dialog box titled "Login". It has a blue header bar with the text "Login" in white. The main area is light blue and contains two text input fields. The first is labeled "Name:" and the second is labeled "Password:". Below these fields are two buttons: "OK" and "Cancel".

1. Type the logon ID in the Name input box.
2. Type the password in the Password input box.
3. Click "OK". You are now in live mode.

**Note:** In systems which are linked to an LDAP server, an additional selection field appears beneath the password. Here you must select whether you want to log on locally or onto the LDAP server.

## The user interface

### The screen layout when the system starts

You will automatically access live mode every time the system is re-started and every time you log on. You can look at live images from selected cameras in this mode.

It is possible to switch quickly into playback mode and back by clicking on the button. The button you select is then color-highlighted.

Live mode



Playback mode



Button for live mode

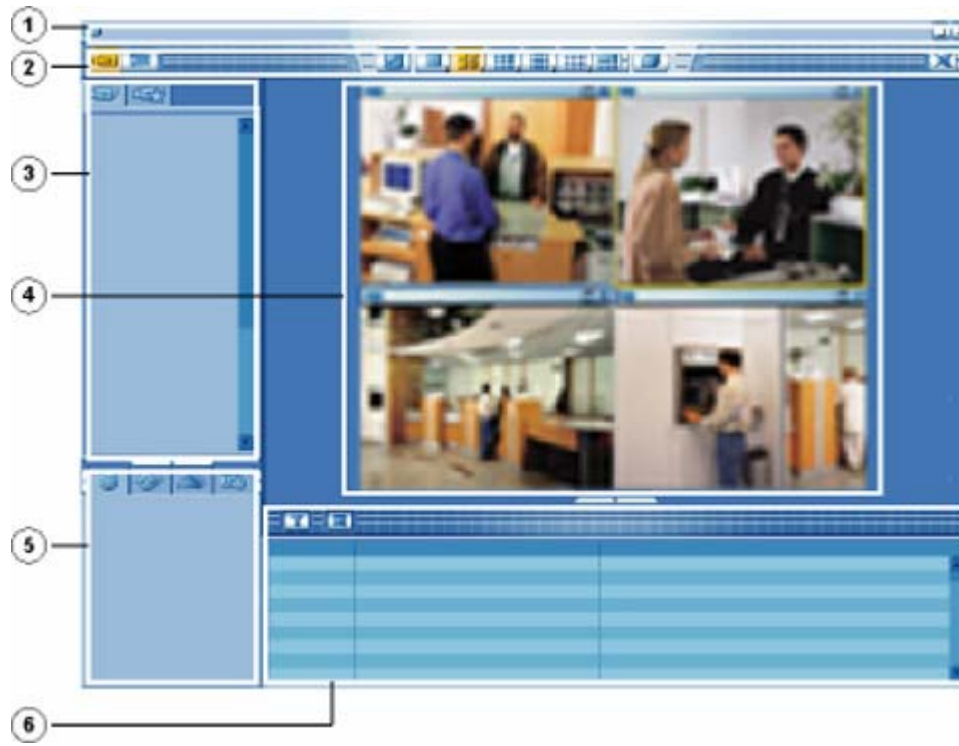


Button for playback mode

## Live mode

### The user interface in live mode

The user interface is divided into different areas.



1	Menu bar with current date and time
2	Display bar
3	Device list with camera and remote stations
4	Image area with image window
5	Control and status field
6	Event field

## Live mode

### The menu bar in live mode

The menu bar has the following functions.

<b>System</b>	
Configuration wizard	Helps you to create a basic system configuration quickly.
Configuration	Displays the configuration.
Database information	Displays information on the cameras, e.g. free memory, average image size etc.
Logbook	Displays specific events for local systems or a remote station.
Log off / change user	Logs the user off the system. The system continues running in the background. A different user can log on.
Change password	You can enter a new password.
Exit	Exits the program (administrator rights necessary).
<b>Selected image window</b>	
Save image	Saves the image displayed in the selected image window. It can be saved as an HTML, BMP, JPG, GIF, TIF or PNG file. If it is saved as a HTML file, the additional data is also saved.
Print image	Prints the image displayed in the selected image window (including the additional data and a commentary).
Motion data	Shows the areas where a motion was detected in the selected image window. To hide it, repeat the command. <b>Note:</b> The search for motion function is only possible with locally connected cameras.
<b>View</b>	
Large icons	Displays the icons in the device list in large format. To minimize them, repeat the command.
Large image area	Enlarges the image area and minimizes the event field. To minimize the image area, select the command again.
Large device list	Enlarges the device list and minimizes the control and status fields. To minimize the device list, select the command again.
<b>?</b>	
Help	Displays online help
Info	Displays system information.

## Live mode

### The display bar


The display bar contains the following buttons:




### Buttons for live and playback mode

	Button for live mode
	Button for playback mode


### Button for full image

	Clicking on the button enlarges the image area to create a full image. Press the ESC button to switch to the original image display.
---	---




### Buttons for arranging the image display in the image area

	The buttons show how many image windows are shown in the image area when this button is selected. Every single image window shows the live image of a camera.
---	---

### Button for camera round

	A dialog box opens after the button is clicked. Enter the length of time after which the system switches over from one camera to the other. During the camera round, all cameras selected in the image area are displayed one after the other. <b>Note:</b> Clicking on the button again ends the camera round.
---	--

### Switching sound button on and off

		Clicking on the button switches the sound on or off. To adjust the volume, click on the down arrow .
		Select the volume you require with the volume regulator.

## Live mode

### The device list in live mode



The device list is located on the left-hand side of the screen. Depending on what is selected, the following are displayed:

- configured remote stations or cameras.
- Favorites view.
- incoming alarms.

	<p><b>Configured cameras and/or remote stations</b></p> <p>All locally-connected cameras are listed.</p> <p>If remote stations have been configured, they are listed along with the cameras connected to them.</p> <p>Network remote stations are automatically connected to the local system. Right-clicking on the remote station icon and selecting the "Disconnect" command disconnects the remote station.</p> <p>RAS remote stations must be connected manually. To do so, right-click on the remote station and select the "Connect" command.</p> <p>The status of the devices is shown by the icons.</p>
	<p><b>Favorites view</b></p> <p>Favorites which have been saved are listed and can be called up by double-clicking on the icon. New favorites can be created.</p> <p><b>Note:</b> A favorite is understood to mean a number of cameras which are displayed in a specific way, e.g. camera 1 to 4 in the 2 x 2-image window view.</p>
	<p><b>Incoming alarms</b></p> <p>The icon flashes red after alarms have been received in the system.</p> <p>Click on the icon and the flashing stops and the cameras in alarm status are listed. Double-clicking on the camera icon shows the camera image in the selected window of the image area. The image can be displayed in any window at all using the "Drag and drop" function.</p>

### Enlarging and minimizing device list

Click on the bar between the device list and the control and status field.






	Minimizes the device list
	Enlarges the device list

## Live mode

### The control and status field


You have the following options in the control and status field. Select the tab of the function you require. Use the tabs' arrows to display hidden icons.













	The control field for dome cameras and pan/tilt cameras is displayed.
	The relays which have been configured are displayed.
	The alarm inputs which have been configured are displayed.
	Instant playback is started.
	The monitors' control field is displayed.

## Live mode

### Control field for dome cameras and pan/tilt cameras

After selecting this tab , the control field for dome cameras and pan/tilt cameras is displayed. The control field does not become active until a dome camera or pan/tilt camera is displayed in the selected image window. When you move the mouse cursor over the various elements, they are highlighted optically. If no dome camera or pan/tilt camera has been selected, the control field is inactive.

		Pan the camera to the left/right.
		Pan the camera up/down.
		Pans the camera in all directions. To do so, move the mouse cursor on to the icon, press and hold the left mouse button, and drag the icon in the direction that you want to pan the camera in.
		Enlarge picture angle (zoom angle) / minimize picture angle (wide angle)
		Focus near / focus far (set the image so it is in focus)
		Close iris/ open iris
		Sets the pan speed
	 (on left)	Camera positions which have been set can be called up. To do so, click on the down arrow and make your selection.
	 (on right)	Camera commands which have been saved can be called up. To do so, click on the down arrow and make your selection.

**Note:** It is also possible to control these functions in the image window.

## Live mode

### Display of relay





After selecting the  tab, all locally configured relays and their statuses are displayed.

If remote stations have been configured, a selection field appears in the lower area. Click on the down arrow, and select the remote station in order to list the relays connected to it.



The relays can be activated or deactivated as follows:


- Double-click with the left mouse button on the relay icon  
or
- Right click and select the "Activate/deactivate" command

	The relay is inactive.
	The relay is active.



## Live mode

### Display alarm inputs



After selecting the  tab, all locally configured alarm inputs and their statuses are displayed. If remote stations have been configured, a selection field appears. Click on the down arrow, and select the remote station in order to list the alarm inputs connected to it.




	Alarm input on standby.
	Alarm input has triggered.












**Note:** alarm simulation inputs can be activated/deactivated by double-clicking or right clicking.

## Live mode

### Start instant playback




After selecting the  tab, the images which have been saved in the selected camera are played back instantly as live images. This means you will see the live image of the camera and the image of this camera from about 30 seconds ago. Playback is in real time. The time delay can be set in the configuration.





		Name of the camera
		Enlarges the image. The image is displayed in a window which can be moved and whose size can be changed.
		Minimizes the image (icon is located in the top right-hand corner of the enlarged image).
		Play reverse (real time)
		Single image backwards
		Pause
		Single image forward
		Play forward (real time)
		Time at which the playback occurs You can start the playback at any time at all. Just click on day, month, year, hour, minute or second and enter the time you want. Confirm the entries with "Enter". The image taken at this time will be displayed.
		Playback starts at the configured time. The value which has been set in the configuration is used, i.e. there is a 30-second time delay between playback and the live image.

## Live mode

### Control field for monitors



After selecting the  tab, 2 monitors are displayed in the control field. Only locally connected cameras can be displayed on the monitors.

		Monitors A and B
		Starts the sequence, i.e. the cameras which have been assigned to the monitor in the configuration are displayed one after the other.
		You return to the "Default view", i.e. the configured camera is displayed on the monitor.

A camera or sequence can be assigned to a monitor.

#### Assign using "Drag and Drop"

Only one camera can be assigned to a monitor with "Drag and Drop". This procedure can be repeated as often as necessary. When a new user logs on, the camera which has been assigned with "Drag and Drop" is replaced by the camera assigned in the configuration.

- Press and hold the left mouse button, drag a camera from the camera list onto the monitor in the control field.
- or
- Place the mouse cursor in the title bar of an image window, press and hold the left mouse button and drag the camera onto the monitor.



#### Assign in the configuration

In the configuration ("Video and audio connections" menu), specify which camera is to be displayed by default on which monitor, and which cameras are to be played as a sequence.

**Note:** The configuration specifies which cameras are to be visible for which users ("Authorization levels" menu).

#### Enlarge and minimize control and status field

Click on the bar above the control and status field.

	Enlarges the control and status field.
	Minimizes the control and status field.

## Live mode

### The image area in live mode

The middle and right-hand side of the screen is where live images or images which have been saved are displayed.


Arrange this area to suit your requirements. Proceed as follows:

#### Specify the number and layout of image windows in the image area

Here you can specify what the image area looks like, i . e. the number and layout of the image windows. The buttons are located in the display bar above the image area.






You can choose between 5 buttons with symmetrical and one button with asymmetrical image display.

Symmetrical image windows	Asymmetrical image windows
View with 1 image, 4 images, 9 images, 16 images or 30 images.	You can display one or more larger image windows surrounded by smaller image windows. To do so, click on the down arrow beside the button on the right, and select a display.
	 <p><b>Note:</b> The last view used is copied to the display bar.</p>
<p><b>Note:</b> At least 1 image window is selected in every display selected by you. The display you select appears with a yellow border. The image of the camera on which you double-click in the device list is shown in this image window.</p>	

The number to the right beneath the button shows the user how often he has already clicked on this button. This number also indicates which cameras have been selected or which cameras will be selected the next time the user clicks this button.

**Example:** With 16 cameras and 2x 2 image windows this means:

You can click on the button four times so that all cameras are displayed.

	Cameras 1 to 4 are displayed (the number "1" appears on the right beneath the button).
	Cameras 5 to 8 are displayed (the number "2" appears on the right beneath the button).
	Cameras 9 to 12 are displayed (the number "3" appears on the right beneath the button).
etc.	

## Live mode

### Place individual cameras in the image area

After selecting the image display, you will now want to display specific cameras. You can do so as follows:

- Place by double-clicking  
Double-clicking on a camera icon in the device list places the camera in the selected image window (with the yellow border).  
Left-click with the mouse to select a different image window. Double-clicking on a different camera icon places its image in the new image window that you have selected.
- "Drag and Drop"  
Press and hold the left mouse button and drag the camera icon from the device list into an image window. Release the mouse button and the image of this camera appears in the image window.

**Note:** In the image area, each camera can only be displayed once.



### Move cameras within the image area

In a multiple-image display, you can move cameras within the image areas.

To do so, move the mouse cursor into the title bar of an image window, press and hold the left mouse button and drag the camera into a different image window. Release the mouse button and the image of this camera appears in the image window.

### Enlarge and minimize image area

Click on the bar beneath the image area.

	Minimizes the image area.
	Enlarges the image area.

## Live mode

### The image window

Depending on which display form you have selected in the display bar, one or more image windows will appear in the image area.

The image window which is selected appears with a yellow border. The image of the camera on which you double-click in the device list is shown in this image window. If an audio source has been assigned to the camera, this is also selected. If a user is authorized to view live or saved images, the user is also authorized to listen to an audio recording which accompanies these images.

In addition to the camera image display, each image window has a title bar with information and buttons about the image, as well as a zoom function.




### The title bar of the image window

The title bar contains

- an icon describing the type of camera
- the name of the camera
- an icon which indicates whether the image also has an audio source



	Camera with audio source
---	--------------------------

- Buttons for enlarging, minimizing and de-selecting the image

	The image window is enlarged so that it fills the entire image area.
	The image window returns to its original size.
	The camera is de-selected. No camera image is displayed. The image window is blue.

### Image window zoom function

Every single image window has a zoom function. To use this function, move your mouse cursor into an image window. The mouse cursor now changes from an arrow into a magnifying glass.

	<p><b>Using the zoom function with immobile cameras:</b></p> <p>Left click with the mouse or rotate the mouse wheel. The image is digitally zoomed. In order to show that an image has been zoomed, a magnifying glass appears in the bottom right-hand edge of the image window.</p> <p>Click several times: 2x, 4x and 8x zoom factors are possible.</p> <p>Right click with the mouse or rotate the mouse wheel. The image returns to its original size. The magnifying glass in the bottom right-hand corner of the image window disappears.</p> <p><b>Note:</b> The part of the image where the magnifying glass is located is zoomed.</p>
	<p><b>Zooming with dome cameras and pan/tilt cameras:</b></p> <p>Dome and pan/tilt cameras can be zoomed in the image window using their own control functions. To do so, move the mouse cursor into the middle of the image window until a magnifying glass with a plus or minus sign appears. Left click with the mouse to enlarge or minimize the area.</p> <p>The digital zoom function is not available for dome or pan/tilt cameras.</p> <p><b>Note:</b> The part of the image where the magnifying glass is located is zoomed. It is also possible to pan in the image window.</p>

## Live mode

### The event field

The event field is located directly beneath the image area. It contains

- an event list.
- a button for filtering these events.
- a button for displaying the logbook.

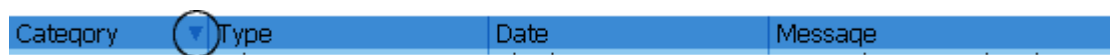
### The event list

The 100 most recent events are listed in an event list in the event field. This list includes events which have been received since the last log-on.



If the list contains more entries than are displayed on the screen, you can scroll up and down using the mouse wheel or the bar on the right-hand side.

### Sort the list

Entries are displayed with "Category", "Type", "Date" and "Message". You can also sort by these criteria. Left click on a field in the title bar, e.g. "Category". An arrow appears on the right-hand side of the field.



An arrow in the title bar field shows the criterion by which the entries have been classified. The direction of the arrow - upwards or downwards - shows whether the column has been classified in an ascending or descending order. You can switch between ascending and descending order by clicking with the mouse.


	The column is classified in ascending order. <b>Note:</b> The most recent events will only appear at the very top of the list if the "Date" column is selected in ascending order.
	The column is classified in descending order.

### Edit the sequence of columns

Hold down the left mouse button to drag a title bar field to the required position. Release the mouse button and the field is inserted in this position.

### Change the column width


Click on the dividing line between the columns until a cross with arrow heads pointing left and right appears. Hold the left mouse button down and move this cross to the right or left. The column width is changed.

	Moving the arrowhead to the left or right changes the column width.
---	---

**Note:** Double-clicking in a field in the title bar optimizes the width of the column, i.e. the width is adjusted to suit the length of the text in the column.

### Filter event list

You can filter the list by certain criteria such as start and shutdown procedures, inputs, cameras etc. in order to get a quick overview of which events are in the list. After filtering the list, only those events which match the criteria you have selected will be displayed.

	Calls up the filter dialog box.
---	---------------------------------

## Live mode

### Display the logbook

This function allows you to look for specific events such as start and shutdown procedures, system alarms, back-up procedures etc. in the local system or a remote station.



Calls up the logbook.

**Note:** The logbook contains up to 25,000 entries.

### Minimize or enlarge event field

If the event field has been minimized, the event list only contains one message.



Minimizes the image area and enlarges the event field.



Enlarges the image area and minimizes the event field.

**Note:** The most recent events will only appear at the very top of the list if the "Date" column is selected in ascending order.

## Playback mode

### The user interface in playback mode

The user interface is divided into different areas.



1	Menu bar with date and time
2	Display bar
3	Device list with camera and remote stations
4	Image area with image windows
5	Timeline area and search results

## Playback mode

### The menu bar in playback mode

The menu bar has the following functions.

System	
Configuration wizard	Helps you to create a basic system configuration quickly.
Configuration	Displays the configuration.
Database information	Displays information on the cameras, e.g. free memory, average image size etc.
Logbook	Displays specific events for local systems or a remote station.
Log off / change user	Logs the user off the system. The system continues running in the background. A different user can log on.
Change password	You can enter a new password.
Exit	Exits the program (administrator rights necessary).

Selected image window	
Save image	Saves the image displayed in the selected image window. It can be saved as a BMP, JPG or HTML file. If it is saved as a HTML file, the additional data is also saved.
Print image	Prints the image displayed in the selected image window (including the additional data and a commentary).
Motion data	Shows the areas where a motion was detected in the selected image window. To hide it, repeat the command. <b>Note:</b> The search for motion function is only possible with locally connected cameras.
Additional data	Shows additional data in the selected image window under the camera image. To hide it, repeat the command.
Authenticate	Checks whether a change has been made to the image in the selected image window. Only the displayed image is checked.
Search for motion	Checks for motion information in the image in the selected image window. You can enter a time period and select the image areas. <b>Note:</b> The search for motion function is only possible with locally connected cameras.

## Playback mode

<b>Recording</b>	
Exporting	Exports video and audio data to a CD/DVD drive, a network drive or a USB drive. The files are exported in DiBos or ASF format. When exporting data in DiBos format, viewer software is also saved. The user must have administrator rights in order to install the viewer. User rights are sufficient for playing the viewer. The viewer runs on all Windows XP and Windows 2000 systems. Data which has been exported in ASF format can be played with default software, e.g. Windows Media Player. You can export individual search results or selected time ranges.
Load exported video	Imports and displays exported data.
Hide exported video	Hides imported data.
Authenticate video	Checks the images from all cameras displayed in the image area to see whether changes have been made to the image itself.  The time period can be entered or highlighted with the hairline in the timeline area.
Search for additional data of displayed cameras	Searches through the cameras displayed in the image area for additional data on the saved images, e.g. for data on ATMs.  You can enter the time period or select it with the hairline in the timeline area.
Search for additional data from all cameras	Searches all cameras for additional data on saved images, e.g. for data on ATMs.  You can enter the time period or select it with the hairline in the timeline area.
Protect video	Protects images from being automatically overwritten. <b>Note:</b> You cannot protect images for a time span of less than one day.
Delete video	Deletes images. <b>Note:</b> You cannot delete images for a time span of less than one whole day.
<b>View</b>	
Large icons	Displays the icons in the device list in large format. To minimize them, repeat the command.
Large image area	Enlarges the image area and minimizes the event field. To minimize the image area, select the command again.
?	
Help	Displays online help.
Info	Displays system information.



## Playback mode

### The display bar


The display bar contains the following buttons:




### Buttons for live and playback mode

	Button for live mode
	Button for playback mode


### Button for full image

	Clicking on the button enlarges the image area to create a full image. Press the ESC button to switch to the original image display.
---	---




### Buttons for arranging the image display in the image area

	The buttons show how many image windows are shown in the image area when this button is selected. Every single image window shows the live image of a camera.
---	---

### Button for camera round

	A dialog box opens after the button is clicked. Enter the length of time after which the system switches over from one camera to the other. During the camera round, all cameras selected in the image area are displayed one after the other. <b>Note:</b> Clicking on the button again ends the camera round.
---	--

### Switching sound button on and off

		Clicking on the button switches the sound on or off. To adjust the volume, click on the down arrow.
		Select the volume you require with the volume regulator.





## Playback mode

### The device list in playback mode



The device list is located on the left-hand side of the screen. Depending on what is selected, the following are displayed:

- Configured remote stations or cameras
- Favorites view
- Incoming alarms
- Importing exported image files

	<p><b>Configured cameras and/or remote stations</b></p> <p>All locally-connected cameras are listed.</p> <p>If remote stations have been configured, they are listed along with the cameras connected to them.</p> <p>Network remote stations are automatically connected to the local station. Right-clicking on the remote station icon and selecting the "Disconnect" command disconnects the remote station.</p> <p>RAS remote stations must be connected manually. To do so, right-click on the remote station and select the "Connect" command.</p> <p>The status of the devices is shown by the icons.</p>
	<p><b>Favorites view</b></p> <p>Favorites which have been saved are listed and can be called up by double-clicking on the icon. New favorites can be created.</p> <p><b>Note:</b> A favorite is understood to mean a number of cameras which are displayed in a specific way, e.g. camera 1 to 4 in the 2 x 2-image window view.</p>
	<p><b>Incoming alarms</b></p> <p>The icon flashes red after alarms have been received in the system.</p> <p>Click on the icon and the flashing stops and the cameras in alarm status are listed. Double-clicking on the camera icon shows the camera image in the selected window of the image area. The image can be displayed in any window at all using the "Drag and drop" function.</p>
	<p><b>Importing exported image files</b></p> <p>Exported image files can be imported.</p> <p><b>Note:</b> "Recordings/Load exported video" must be selected!</p>

## Playback mode

### The image area in playback mode

The middle and right-hand side of the screen is where live images or images which have been saved are displayed.


Arrange this area to suit your requirements. Proceed as follows:

#### Specify the number and layout of image windows in the image area

Here you can specify what the image area looks like, i . e. the number and layout of the image windows. The buttons are located in the display bar above the image area.






You can choose between 5 buttons with symmetrical and one button with asymmetrical image display.

Symmetrical image windows	Asymmetrical image windows
View with 1 image, 4 images, 9 images, 16 images or 30 images.	You can display one or more larger image windows surrounded by smaller image windows. To do so, click on the down arrow beside the button on the right, and select a display.
	 <p><b>Note:</b> The last view used is copied to the display bar.</p>
<p><b>Note:</b> At least 1 image window is selected in every display selected by you. The display you select appears with a yellow border. The image of the camera on which you double-click in the device list is shown in this image window.</p>	

The number to the right beneath the button shows the user how often he has already clicked on this button. This number also indicates which cameras have been selected or which cameras will be selected the next time the user clicks this button.

**Example:** With 16 cameras and 2x 2 image windows this means:

You can click on the button four times so that all cameras are displayed.

	Cameras 1 to 4 are displayed (the number "1" appears on the right beneath the button).
	Cameras 5 to 8 are displayed (the number "2" appears on the right beneath the button).
	Cameras 9 to 12 are displayed (the number "3" appears on the right beneath the button)
etc.	

## Playback mode

### Place individual cameras in the image area

After selecting the image display, you will now want to display specific cameras. You can do so as follows:



- Place by double-clicking  
Double-clicking on a camera icon in the device list places the camera in the selected image window (with the yellow border).  
Left-click with the mouse to select a different image window. Double-clicking on a different camera icon places its image in the new image window that you have selected.
- Place by "Drag and Drop"  
Press and hold the left mouse button and drag the camera icon from the device list into an image window. Release the mouse button and the image of this camera appears in the image window.

### Move cameras within the image area

In a multiple-image display, you can move cameras within the image areas. To do so, move the mouse cursor into the title bar of an image window, press and hold the left mouse button and drag the camera into a different image window. Release the mouse button and the image of this camera appears in the image window.

### Enlarge and minimize image area

Click on the bar beneath the image area.

	Minimizes the image area.
	Enlarges the image area.

## Playback mode

### The image window

Depending on which display form you have selected in the display bar, one or more image windows will appear in the image area.

The image window which is selected appears with a yellow border. The image of the camera on which you double-click in the device list is shown in this image window. If an audio source has been assigned to the camera, this is also selected. If a user is authorized to view live or saved images, he is also authorized to listen to an audio recording which accompanies these images.

In addition to the camera image display, each image window has a title bar with information and buttons about the image, as well as a zoom function.




### The title bar of the image window

The title bar contains

- an icon describing the type of camera.
- the name of the camera.
- an icon which indicates whether the image also has an audio source.



	Camera with audio source
---	--------------------------

- Buttons for enlarging, minimizing and de-selecting the image.

	The image window is enlarged so that it fills the entire image area.
	The image window returns to its original size.
	The camera is de-selected. No camera image is displayed. The image window is blue.

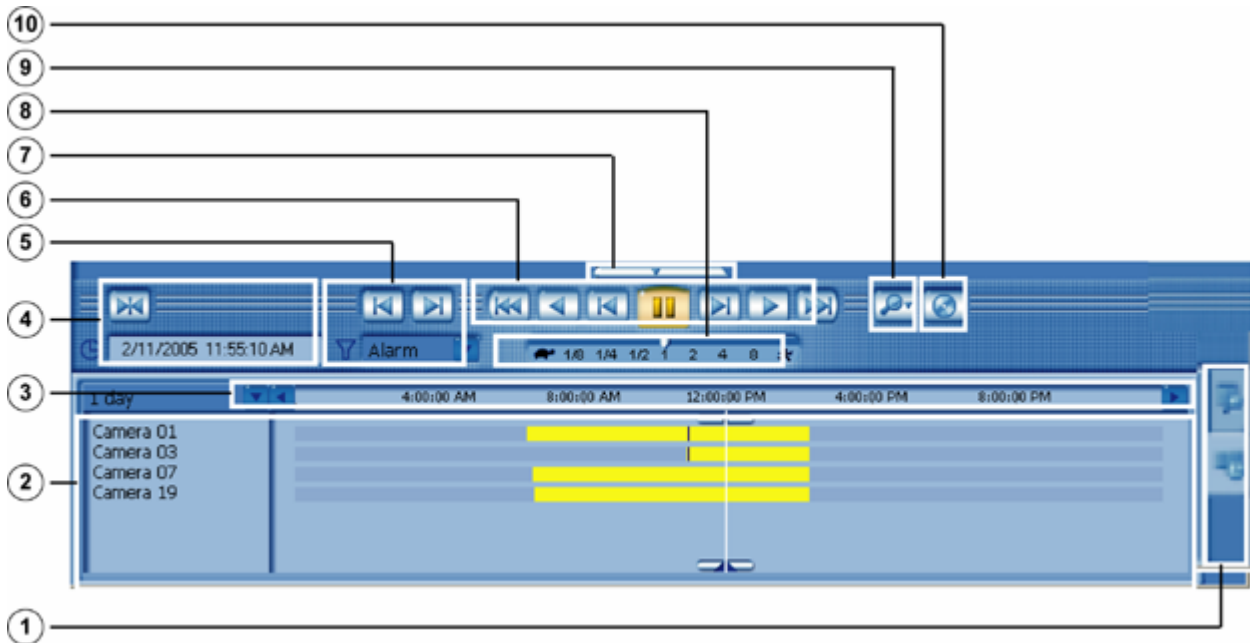
### Image window zoom function

Every single image window has a zoom function. To use this function, move your mouse cursor into an image window. The mouse cursor now changes from an arrow into a magnifying glass.

	<p><b>Using the zoom function with immobile cameras:</b></p> <p>Left click with the mouse or rotate the mouse wheel. The image is digitally zoomed. In order to show that an image has been zoomed, a magnifying glass appears in the bottom right-hand edge of the image window.</p> <p>Click several times: 2x, 4x and 8x zoom factors are possible.</p> <p>Right click with the mouse or rotate the mouse wheel. The image returns to its original size. The magnifying glass in the bottom right-hand corner of the image window disappears.</p> <p><b>Note:</b> The part of the image where the magnifying glass is located is zoomed.</p>
	<p><b>Zooming with dome cameras and pan/tilt cameras:</b></p> <p>Dome and pan/tilt cameras can be zoomed in the image window using their own control functions. To do so, move the mouse cursor into the middle of the image window until a magnifying glass with a plus or minus sign appears. Left click with the mouse to enlarge or minimize the area.</p> <p>The digital zoom function is not available for dome or pan/tilt cameras.</p> <p><b>Note:</b> The part of the image where the magnifying glass is located is zoomed. It is also possible to pan in the image window.</p>

## Playback mode

### The timeline area





1	Tabs so you can choose to display camera list with timeline or a list of the search results.
2	Camera list with timeline or list of the search results
3	Measuring unit for the timeline (month, day etc.) or title bar of the search results
4	Field for entering the time (for rapid positioning of the hairline in the timeline)
5	Select previous/next event

6	Recorder buttons to play back the saved image sequences
7	Minimize / enlarge timeline area
8	Speed controller to change the playback speed
9	Button for search function
10	Button for backing up data externally

### Tab for camera list with timeline or list of the search results

Decide here whether to display a camera list with timeline or a list of the search results.

	Shows a camera list with timeline for every camera in the image area.
	Shows a list of the search results. Only after a search has been performed will you get the tab which shows you whether search results are available or not.

## Playback mode

### Camera list with timeline and list of search results

The following information will appear in this area:

- **A camera list with timeline for every camera in the image area.**

The timeline contains the following information.

Alarm recording	red
Motion recording	yellow
Continuous recording	blue
No video signal	black
Protected data	shading
Audio data available	thin green line above the timeline
No recording	light blue

- **a list of the search results**

After a search has been performed, a list of the search results will appear.

Double-clicking with the left mouse button on a search result shows the image sequence in the selected image window.

A click with the left mouse button selects the entry. This selected entry can be exported with this

button: .

Right clicking opens a selection menu to display or export the image sequence.

### Change timeline measuring unit

You can set four different measuring units - 1 month, 1 day, 4 hours, 15 minutes.



Click on the down arrow (on left) and select the measuring unit.

Navigation in the timeline (forwards and backwards):

- Use the right and left arrows  
or
- Place the mouse cursor on the line and turn the mouse wheel

### The search results title bar

Start	End	Camera	Remote station
2/11/2005 11:2	2/11/2005 11:2	Camera 01	DIS05

The search results can be classified. The column width and sequence can be changed.


## Playback mode

### Enter a time

A date and time entry field allows you to quickly access a specific time in the timeline.

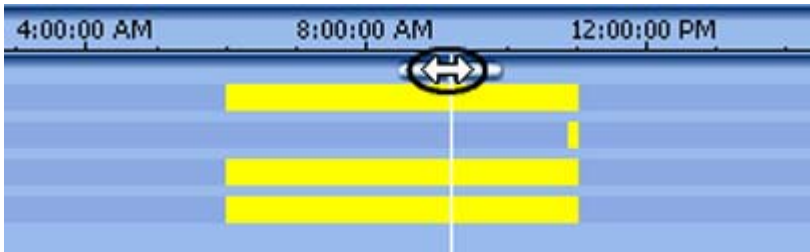


Using the mouse cursor, select the date and time you want to edit and make the necessary entries.

Click on the button above it . The timeline's hairline jumps to this time and is placed in the middle. The images which have been found are displayed in the image area.

### Select a time using the timeline's hairline

You can access a specific time in the timeline via the hairline.



Move the mouse cursor to the top anchor of the hairline and drag it to the required time. The images which have been found are displayed in the image area.

**Note:** Clicking with the left mouse button on the timeline places the hairline in the place where you have clicked.

### Selecting a time period using the timeline's hairline

You can select a time period in the timeline using the hairline. You can use this selection for further actions such as exporting images, searching for images in the displayed cameras.



Move the mouse cursor to the bottom anchor of the hairline and drag it to the required time period.



## Playback mode

### Display a previous or subsequent event which has been recorded

You can jump to specific events in the displayed cameras.

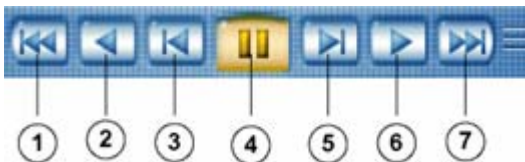


Click on the down arrow beside the selection field and select the event, e.g. alarm, motion recording etc.

Click on  if you want to jump to the previous event, and on the arrow  if you want to jump to the next event. The timeline's hairline jumps to this time. The images which have been found are displayed in the image area.

### The recorder buttons

The recorder buttons are used to play back the saved image sequences. The images are played back in all image windows simultaneously. If a user is authorized to view saved images, he is also authorized to listen to an audio recording which accompanies these images.






1	Jump to the start of the recording
2	Play video in reverse in real time or at changed speed. The speed is set with the speed regulator.
3	Single image reverse
4	Pause

5	Single image forward
6	Play forward in real time or at changed speed. The speed is set with the speed regulator. <b>Note:</b> Audio playback is in real time mode only.
7	Jump to the end of the recording

## Playback mode

### Changing the playback speed



Press and hold the mouse button. Move the slide control to the left to reduce the playback speed, and to the right to increase the playback speed. Rotating the mouse wheel also changes the playback speed.

		Play back at 1/16 of the recording speed
	1/8	Play back at 1/8 of the recording speed
	1/4	Play back at 1/4 of the recording speed
	1/2	Play back at 1/2 of the recording speed
	1	Playback speed = recording speed
	2	Play back at double the recording speed
	4	Play back at four times the recording speed
	8	Play back at eight times the recording speed
		Play back at sixteen times the recording speed

**Note:** A system alarm is emitted if the saved images cannot be played at the set speed.

### Minimize timeline area

Click on the bar above the timeline area.

	Minimizes the image area and enlarges the timeline area.
	Enlarges the image area and minimizes the timeline area.


When minimizing the timeline area the events saved from the cameras displayed appear on a single timeline. If events overlap, they are displayed in the following order:


Priority 1	No camera signal
Priority 2	Alarm recording
Priority 3	Motion recording
Priority 4	Continuous recording
Priority 5	No recording

## Playback mode

### Call up search functions


The following search functions can be called up:

	Click on the button and select the desired function.
Search for motion	Opens a dialog box. In the "Search for motion" function, the image in the selected image window can be checked for motion.
Search for additional data of displayed cameras	You can search the cameras displayed in the image area or all connected cameras for additional data here. The search results are displayed in the timeline area. The number of hits is limited to 500.
Search for additional data from all cameras	

The search results are displayed in the lower part of the screen. An additional tab  is shown in the bottom right of the screen.

### Exporting image data

Video and audio data can be exported to a CD/DVD drive, a network drive or a USB drive. The files are exported in DiBos or ASF format. When a video is exported in DiBos format, a viewer is added to the data. The viewer can be run under Win XP and Windows. Data in ASF format can be played with default software, e.g. Windows Media Player.

	Select an entry in the search result or highlight a time period with the hairline and click on the button. The data is exported. <b>Note:</b> Only one entry can be exported at a time. If you have to export more than one entry, repeat the process.
---	---

## Operating procedures - live / playback mode

### Display incoming alarms

When incoming alarms are received, a red flashing tab  is added to the device list.

1. Select the tab. The flashing becomes static and the cameras or remote stations in alarm status are listed.
2. Double-clicking on the camera icon shows the image in the selected window of the image area. The image can be displayed in any window at all using the "Drag and drop" function.

**Note:** If several cameras are assigned to one remote station, you must first double click on the remote station. Only then are the cameras listed and can be selected by double-clicking.

3. By right-clicking on the remote station icon, you can acknowledge the alarm or display all the cameras in alarm.

Acknowledge alarm	When the command is selected, the alarm is acknowledged and deleted from the display. <b>Note:</b> As incoming alarms are saved in the logbook, they can be called up at any time in playback mode.
Display all alarms	All alarms are displayed in the image area. The system automatically selected the best type of display.

## Operating procedures - live / playback mode

### Creating/editing favorites

A favorite is taken to mean a number of cameras which are combined together in camera groups to allow a better overview, e.g. camera 1 to 4 in the 2x 2-image window view are combined together as an "Entry area" favorite.

Favorites are available in live and playback mode.


#### Create a new favorite:

1. Select an image display in the display bar.




2. Using the "Drag and Drop" function, drag a camera from the device list into an image window. Continue doing this until all the cameras you require are in the various image windows.

**Note:** When you select a favorite, the live image of the camera is shown in live mode, and the saved image in playback mode.

3. Click on the Favorites icon . The list of favorites appears.
4. Right click on the device list. Select the "New favorite" command.
5. Enter the name of the favorite in the dialog field and click on "OK". The cameras which you have already placed and the display you have selected are saved with this name and can be called up again.

#### Call a favorite

1. Click on the tab . The favorites you have already saved are displayed.
2. Double click on Favorites or click it with the right mouse button and select the command "Call". The setting for this favorite is displayed in the image area.

#### Edit a favorite

1. Double-click on the favorite you want to edit.
2. Make the changes (e.g. image partitioning, cameras).
3. Place the mouse cursor on the name of the favorite and right click. Select "Save favorite".

#### Edit the name of a favorite

1. Click on the favorite icon.
2. Place the mouse cursor on the name of the favorite and right click. Select "Rename".
3. Enter the name of the favorite in the dialog field and click on "OK".

## Operating procedures - live / playback mode

### Edit the sequence of favorites

- Hold the left mouse button down and drag the favorite to the required position and release the mouse button.

The favorite is inserted in this position.


### Delete a favorite

1. Click on the favorite icon.
2. Right click on the name of the favorite. Select the "Delete" command.

## Operating procedures - live / playback mode

### Display logbook

This function allows specific local events or events from a remote station to be displayed.

1. **Live mode:** Select the "System/logbook" menu or click on the  icon under the image area.  
**Playback mode:** Select the "System/logbook" menu.
2. In "Remote station", select those remote stations in which you want to look for specific events.
3. Enter the time period in "Time period".
4. In "Events", select those events which you want to look for within the time period.
5. Click on "Search". The search results are listed in the lower part of the dialog box . You can sort the events if necessary. It is possible to change the column width.
6. Click on "Print" to print the logbook.



**Note:** To save the logbook, select "Fax" in the printer name in the dialog box and select "Print to file". Confirm with "OK". The file is saved in "C:\Program Files\DiBos". It can be opened with the "Windows Picture and Fax Viewer" program.

### Sort list

Entries are displayed with "Category", "Type", "Date" and "Message". You can also sort by these criteria. Left click on a field in the title bar, e.g. "Category". An arrow appears on the right-hand side of the field.

Category	Type	Date	Message
----------	------	------	---------

An arrow in the title bar field shows the criterion by which the entries have been classified. The direction of the arrow - upwards or downwards - shows whether the column has been classified in an ascending or descending order. You can switch between ascending and descending order by clicking with the mouse.


	The column is classified in ascending order. <b>Note:</b> The most recent events will only appear at the very top of the list if the "Date" column is selected in ascending order.
	The column is classified in descending order.

### Editing the sequence of columns

Hold down the left mouse button to drag a title bar field to the required position. Release the mouse button and the field is inserted in this position.

### Change column width

Click on the dividing line between the columns until a cross with arrow heads pointing left and right appears. Hold the left mouse button down and move this cross to the right or left. The column width is changed.



	Moving the arrowhead to the left or right changes the column width.
---	---

**Note:** Double-clicking in a field in the title bar optimizes the width of the column, i.e. the width is adjusted to suit the length of the text in the column.

## Operating procedures - live / playback mode

### Start/exit camera round

During the camera round, all cameras selected in the image area are displayed one after the other. The cameras are shown in single image mode.

1. Click on the  icon in the display bar to start the camera round.
2. In "Time interval in seconds", enter the time after which the system must switch from one camera to the next.
3. Click on "OK". The camera round is started.
4. To exit the camera round, click on the  icon again.

### Log off / change user

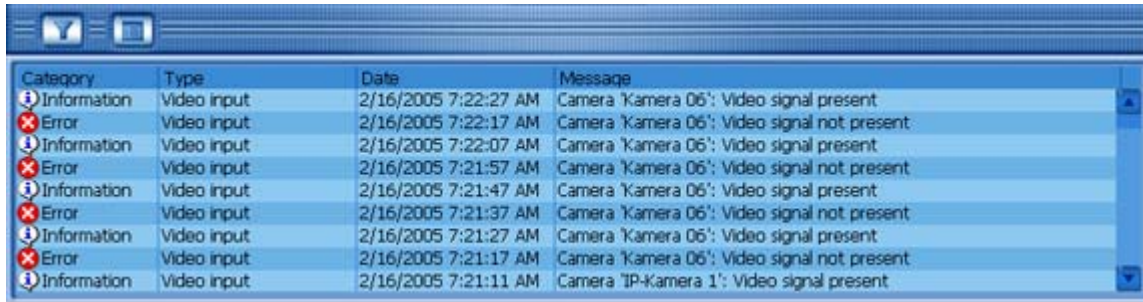
1. Select the "System / Log off / Change user" menu.
2. Enter the name and password of the new user.
3. Click on "OK".

## Operating procedures - live mode


### Filter event list

The 100 most recent events are listed in an event list in the event field. This list includes events which have been received since the last log-on.

If you only want to display specific events, you can filter the event list using these criteria.



Category	Type	Date	Message
Information	Video input	2/16/2005 7:22:27 AM	Camera 'Kamera 06': Video signal present
Error	Video input	2/16/2005 7:22:17 AM	Camera 'Kamera 06': Video signal not present
Information	Video input	2/16/2005 7:22:07 AM	Camera 'Kamera 06': Video signal present
Error	Video input	2/16/2005 7:21:57 AM	Camera 'Kamera 06': Video signal not present
Information	Video input	2/16/2005 7:21:47 AM	Camera 'Kamera 06': Video signal present
Error	Video input	2/16/2005 7:21:37 AM	Camera 'Kamera 06': Video signal not present
Information	Video input	2/16/2005 7:21:27 AM	Camera 'Kamera 06': Video signal present
Error	Video input	2/16/2005 7:21:17 AM	Camera 'Kamera 06': Video signal not present
Information	Video input	2/16/2005 7:21:11 AM	Camera 'IP-Kamera 1': Video signal present



1. Click on the icon  beneath the image area. A dialog box opens.
2. Select the criteria.
3. Click on "OK".

### Sort list

Entries are displayed with "Category", "Type", "Date" and "Message". You can also sort by these criteria. Left click on a field in the title bar, e.g. "Category". An arrow appears on the right-hand side of the field.

Category	Type	Date	Message
----------	------	------	---------

An arrow in the title bar field shows the criterion by which the entries have been classified. The direction of the arrow - upwards or downwards - shows whether the column has been classified in an ascending or descending order. You can switch between ascending and descending order by clicking with the mouse.


	The column is classified in ascending order. <b>Note:</b> The most recent events will only appear at the very top of the list if the "Date" column is selected in ascending order.
	The column is classified in descending order.

### Edit sequence of columns

Hold down the left mouse button to drag a title bar field to the required position. Release the mouse button and the field is inserted in this position.

### Change column width

Click on the dividing line between the columns until a cross with arrow heads pointing left and right appears. Hold the left mouse button down and move this cross to the right or left. The column width is changed.

	Moving the arrowhead to the left or right changes the column width.
---	---

**Note:** Double-clicking in a field in the title bar optimizes the width of the column, i.e. the width is adjusted to suit the length of the text in the column.

## Operating procedures - live mode


### Zoom / control dome cameras and pan/tilt cameras











You can zoom and control the cameras in the control and status field, as well as directly in the image window.

#### Control/zoom in control and status field

1. Select the image window of the camera which you want to zoom or control. The image window now appears with a yellow border.






2. Click on the  tab in the control and status field. The control field for dome cameras and pan/tilt cameras is displayed.
3. Click on the various control elements in order to zoom or pan the camera.

		Pan the camera to the left/right.
		Pan the camera up/down.
		Pans the camera in all directions. To do so, move the mouse cursor on to the icon, press and hold the left mouse button, and drag the icon in the direction that you want to pan the camera in.
		Enlarge picture angle (zoom angle) / minimize picture angle (wide angle).
		Focus near (set sharp image) / Focus far (set sharp image).
		Close iris/ open iris.
		Sets the pan speed.
	 (on left)	Camera positions which have been set can be called up. To do so, click on the down arrow and make your selection.
	 (on right)	Camera commands which have been saved can be called up. To do so, click on the down arrow and make your selection.

## Operating procedures - live mode

### Control / zoom in image window

1. Move the mouse cursor into the image window of a dome or pan/tilt camera. This changes the appearance of the mouse cursor.

		Pan the camera in the relevant direction using the arrow keys. To do so, hold the left mouse button down.
		Pan to left/right. etc. <b>Note:</b> The closer you come to the edge of the image, the faster the camera pans or tilts.
		Enlarge picture angle (zoom angle) / minimize picture angle (wide angle)


2. Click with the right mouse button on the image window in order to call up the following commands:
3. Focus near/far
4. Close iris/Open iris
5. Call up saved positions
6. Call up saved macros



**Note:** The digital zoom function is not available for dome or pan/tilt cameras.

## Operating procedures - playback mode

### Search for motion

You can check the image in the selected image window for motion. The search for motion function is not possible with IP cameras.

1. Select the image window of the camera whose images you want to check for motion. The image window now appears with a yellow border.
2. Using the hairline, highlight the time period on the timeline.
3. Select the "Selected image window/Search for motion" menu, or click on the  icon beneath the image area.
4. The current hairline value in the timeline is copied to the "from" and "to" fields for the start and end time and date. If you want to change the time period, click on the down arrow beside the "from" and "to" fields and select the new date and time.
5. Select "Display grid". A grid is placed above the image. Every cell in the grid can be selected for search purposes.
6. Select those cells which you want to check for motion. To select the cells, click with the right mouse or minimize an area while pressing and holding the right mouse button.


	<p><b>Selected areas:</b></p> <ul style="list-style-type: none"> <li>• Right click</li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>• hold the right mouse button down and drag up an area</li> </ul> <p>A plus sign appears beside the mouse cursor to show that the area has been selected and will be assessed during the search.</p> <p><b>Note:</b> Areas which are selected for search purposes are shown without a grid.</p>
	<p><b>Non-selected areas:</b></p> <ul style="list-style-type: none"> <li>• Left click</li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>• hold the left mouse button down and drag an area.</li> </ul> <p>A minus sign appears beside the mouse cursor to show that the area has not been selected and will not be assessed during the search.</p> <p><b>Note:</b> Areas which are not selected for search purposes are shown with a grid.</p>

7. Click on "OK". The search results are listed in the timeline area.

## Operating procedures - playback mode

### Search for additional data

You can search all the cameras displayed in the image area or all connected cameras for additional data here.

1. Using the hairline, highlight the time period on the timeline.
2. Select the "Recording/Search for additional data of displayed cameras", "Recording/Search for additional data from all cameras" or click on the  icon beneath the image area.
3. The current hairline value in the timeline is copied to the "from" and "to" fields for the start and end time and date. If you want to change the time period, click on the down arrow beside the "from" and "to" fields and select the new date and time.
4. In "Additional data", select those criteria which are to form the basis of the search.
5. Click on "Start search". The search results are listed.

## Operating procedures - playback mode

### Exporting files

Video and audio files can be exported to a CD/DVD drive, a network drive or a USB drive. The files are exported in DiBos or ASF format.


When files are exported in DiBos format, a viewer is added to the data. The user must have administrator rights in order to install the viewer. User rights are sufficient for playing the viewer. The viewer runs on all Windows XP and Windows 2000 systems.

Files which have been exported in ASF format can be played with standard software, e.g. Windows Media Player.

You can export individual search results or selected time ranges.


### Export a time period

The video and audio data of the displayed cameras can be exported for a time period which has been selected in the timeline area.

1. Using the hairline, highlight the time period on the timeline.
2. Click on . The export dialog box opens.
3. In "Data carrier", select the medium to which you want to save the time period.
4. Specify the "Format" of the files to be exported. You may also have to specify the "Quality" of the files.
5. The current hairline value in the timeline is copied to the "from" and "to" fields for the start and end time and date. If you want to change the time period, click on the down arrow beside the "from" and "to" fields and select the new date and time.
6. Click on "OK". The files are exported.

### Export single search entries

Search entries can be exported on their own. If you want to export several entries, you must export them one by one.

1. Select an entry in the search result with the left mouse button.
2. Click on . The export dialog box opens.
3. In "Data carrier", select the medium to which you want to save the time period.
4. Specify the "Format" of the files to be exported. You may also have to specify the "Quality" of the files.
5. The start and end time and date of the selected entry are copied to the "from" and "to" fields. The pre-alarm and post-alarm time of the event is contained in this time. If you want to change the time period, click on the down arrow beside the "from" and "to" fields and select the new date and time.
6. Click on "OK". The files are exported.

## Operating procedures - playback mode

### Import exported files

Exported audio and video files can be imported in order to display their saved images.

1. Select the "Recording/ Load exported video" menu.
2. Select the drive on which the exported files are located. The files are displayed in the list field beneath the drive.
3. In the list box, click on the file whose images you want to view.
4. Click on "OK".



An additional tab is added to the device list.

5. Click on the tab. The name of the imported file is displayed in the device list with the camera name.
6. Double-clicking on the camera icon shows the image in the selected window of the image area. The image can be displayed in any window at all using the "Drag and drop" function. If several cameras are assigned to one remote station, you must first double click on the remote station. Only then are the cameras listed and can be selected by double clicking.

**Note:** Select "Recording/ Hide exported video" to remove the exported files from the display.

## Operating procedures - playback mode

### Authenticate images from several cameras

You can check whether changes have been made to the recorded images of all the cameras displayed in the image area.

1. Using the hairline, highlight the time period on the timeline.
2. Select the "Recording/authenticate video" menu.
3. The current hairline value in the timeline is copied to the "from" and "to" fields for the start and end time and date. If you want to change the time period, click on the down arrow beside the "from" and "to" fields and select the new date and time.
4. Click on "Start" to start authentication.

### Authenticate a single image

In the image of the selected image window, the images are then checked to see if they have been changed. Only the displayed image is checked.

1. Select the image window of the camera whose image you want to check.
2. Click on the "Selected image window / Authenticate video" menu. A message shows you whether the image has been changed or not.

## Operating procedures - playback mode

### Protect video

This function allows you to protect the images of the displayed cameras against being automatically overwritten.

1. Using the hairline, highlight the time period on the timeline.
2. Select the "Recording / Protect video" menu.
3. The date currently shown in the time period's hairline is copied to the "from" and "to" fields. If you want to change the time period, click on the down arrow beside the "from" and "to" fields and select the new date.

**Note:** It is not possible to protect images for a time span of less than one day.

4. Click on "Start".

### Delete video

This function allows you to delete images from one day or more. Only the images from the displayed cameras are deleted.

1. Using the hairline, highlight the time period on the timeline.
2. Select the "Recording / Delete video" menu.
3. Select the time period:

Delete images in time period	Only the images in this time period are deleted.
Delete older images up to and including	All images which are older than the final date are deleted.





























4. The date currently shown in the time period's hairline is copied to the "from" and "to" fields. If you want to change the time period, click on the down arrow beside the "from" and "to" fields and select the new date.

**Note:** It is not possible to delete images for a time span of less than one day.

5. Click on "Start".

## The icon list

### List of icons

	Dome camera: live images are only displayed (but not saved)			Network remote station DiBos 8: connection has been made
	Dome camera: poor image quality (too light, too dark, noisy)			Network remote station DiBos 8: connection is being established / connection cannot be established
	Dome camera: live images are displayed and saved			Network remote station DiBos 8: connection has been disconnected
	Dome camera: no camera signal			Network remote station DiBos 7: connection has been made
	Camera: live images are only displayed (but not saved)			Network remote station DiBos 7: connection is being established / connection cannot be established
	Camera: poor image quality (too light, too dark, noisy)			Network remote station DiBos 7: connection has been disconnected
	Camera: live images are displayed and saved			RAS remote station DiBos 8: connection has been made
	Camera: no camera signal			RAS remote station DiBos 8: connection is being established / connection cannot be established
	Network dome camera: live images are only displayed (but not saved)			RAS remote station DiBos 8: connection has been disconnected
	Network dome camera: poor image quality (too light, too dark, noisy)			RAS remote station DiBos 7: connection has been made
	Network dome camera: live images are displayed and saved			RAS remote station DiBos 7: connection is being established / connection cannot be established
	Network dome camera: no camera signal from the dome camera on the network module			RAS remote station DiBos 7: connection has been disconnected
	Network camera: connection has been established			
	Network camera: poor image quality (too light, too dark, noisy)			
	Network camera is recording			
	Network camera: no camera signal			

## Notes

## Notes

## Notes

Bosch Security Systems B.V.  
P.O. Box 80002, 5600 JB  
Eindhoven  
The Netherlands  
Tel: 31 40 278 1222  
Fax: 31 40 278 6668

Bosch Security Systems, Inc.  
850 Greenfield Road  
Lancaster, PA 17601 U.S.A.  
Tel: 800-326-3270  
Fax: 1-717-735-6560

Bosch Security Systems Pte Ltd  
38C, Jalan Pemimpin  
Singapore 577180  
Republic of Singapore  
Tel: 65 (6) 319 3486  
Fax: 65 (6) 319 3499

