SIEMENS

SISTORE MX NVS
SISTORE RemoteView

Application Software For Network-Based Video Recording

User Manual

V2.80

Building Technologies

Fire Safety & Security Products

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About this document

This document contains instructions for the operation of SISTORE MX NVS, SISTORE RemoteView and SISTORE Player.

For information on software installation and setup please refer to the SISTORE MX NVS Installation Manual.

For information on configuration please refer to the SISSTORE MX NVS Configuration Manual.

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1 Description of functions

SISTORE MX NVS an application software for network-based video recording systems for the surveillance of rooms, premises, buildings, production workshops, critical public areas or any outdoor areas where security is important. The video streams of up to 64 LAN cameras can be recorded at the same time. It is however not possible to record the video streams of analogue cameras. A simultaneous display of all cameras for live surveillance is possible at the same time as recording. The SISTORE MX NVS application software can be installed on any suitable Windows PC. Further information on this can be found in the SISTORE MX NVS Installation Manual. The server PC collects data from the LAN cameras and provides various analysis possibilities. This data can also be evaluated remotely via the client PC.

SISTORE MX NVS easily adapts to your application, both with regard to your various different alarm triggers such as for instance cameras, light barriers etc., and also in case of alarms to control your various external devices such as for instance sirens, alarm systems, lighting etc. By defining different alarm configurations, you also have the opportunity to adjust the video recording to the actual surveillance task in question and thereby maximise the performance of your system.

User management

You can manage user accounts using the SISTORE MX NVS application software. By issuing different user rights, it allows for each user to have access to certain functions on an individual basis according to his/her range of tasks; such access may also be denied to others.

SISTORE Player

The delivery includes the SISTORE Player program in addition to the SISTORE MX NVS program itself. SISTORE Player gives you the capability to replay video recordings or exported AVI sequences on any Windows PC.

SISTORE RemoteView

The delivery also includes SISTORE RemoteView. Using SISTORE RemoteView, you have the opportunity to remote access (via LAN or ISDN) the system in order to revise the recorded videos and to watch camera pictures live. Here SISTORE RemoteView functions as a client accessing a SISTORE unit (from the SISTORE MX product range) or a SISTORE MX NVS server.

2 Safety

2.1 Target readers

The instructions in this document are designed only for the following target readers:

Target readers	Qualification	Activity	Condition of the product
End user	Has working knowledge of computers. Instruction by technical specialists is necessary.	Performs only the procedures for proper operation of the product.	The product is installed and configured.
Service personnel	Technical training for electrical installations, video surveillance and network systems and for the product.	Checks the product at regular intervals to ensure that it is in good working order and performs service work.	Product already in use and requiring servicing.

2.2 Work safety information

- Read the general safety precautions before installing the software.
- Please also read the safety precautions for the devices that are operated by the software.
- Keep this document for reference.
- Always pass this document on together with the product.

2.2.1 Handling

Damage due to improper handling

- Protect the CD from scratching.
- To clean the CD use a soft dry cloth.

Damage during transport

- Always transport the CD in the case it originally came in.

2.2.2 Setup

Dangerous situation due to false alarm

- Make sure to notify all relevant parties and authorities providing assistance before testing the system.
- To avoid panic, always inform all those present before testing any alarm devices.

2.2.3 Installation

Data loss after software update

- Make sure to backup all data before updating the software.

2.2.4 Storage

Damage due to improper storage

- Always store the CD in its protective case.
- Keep the CD in an environment with a relative humidity of 10 – 90 %.
- Keep the CD between -5 and +55 °C.
- Do not store the CD in dusty places.
- Do not keep the CD close to sources of magnetic radiation.
- Protect the CD from moisture.
- Protect the CD from direct sunlight.

2.3 Meaning of the written warning notices

The severity of a hazard is indicated by the following written warning notices.

Signal word	Type of risk
CAUTION	There is a risk of minor to medium injuries or damage to property.
IMPORTANT	Malfunctioning may result

2.4 Meaning of the hazard symbols

The nature of the hazard is indicated by icons.

Warning of a hazard

3 Details for ordering

Type	Order No.	Designation
SISTORE MX NVS 4	S24245-P5099-A1	Open IP software for 4 IP cameras
SISTORE MX NVS 9	S24245-P5099-A2	Open IP software for 9 IP cameras
SISTORE MX NVS 16	S24245-P5099-A3	Open IP software for 16 IP cameras
SISTORE MX NVS 32	S24245-P5099-A4	Open IP software for 32 IP cameras
SISTORE MX NVS 64	S24245-P5099-A5	Open IP software for 64 IP cameras

Accessories, not included in delivery!

Type	Order No.	Designation
USBOPTO8	2GF4811-8CH	USB input module - 8 channels with optocoupler function
USBREL8	2GF4811-8CG	USB output module - 8 channels with relay function
USBOPTOREL16	2GF4811-8CJ	USB input and output modules with 16 optocoupler inputs and 16 relay outputs
CKA4820	2GF2400-8EC	PTZ control unit with joystick
MX Multi-Channel Box (CDM, POS, Data)	S24245-F5092-A1	For connection of cash dispensers or cash box systems

Further accessories can be found in the Internet: www.buildingtechnologies.siemens.com **> Products & Systems > Electronic Security > Catalogue Downloads**.

4 Package contents

- CD with SISTORE MX NVS software
- SISTORE MX NVS Configuration Manual and User Manual on CD
- SISTORE MX NVS Installation Manual
- Supplement Getting Started in six languages
- USB dongle for software licence with 4, 9, 16, 32 or 64 LAN cameras

Dongle 4	Operation of 4 LAN cameras
Dongle 9	Operation of 9 LAN cameras
Dongle 16	Operation of 16 LAN cameras
Dongle 32	Operation of 32 LAN cameras
Dongle 64	Operation of 64 LAN cameras

If no USB dongle is installed, the software only runs in demo mode. In demo mode you can configure and evaluate only one LAN camera.

5 Description of the SISTORE MX NVS software (server)

There are 3 operating modes of the SISTORE MX NVS application software:

- Display mode

  See Section 5.1 Display mode.
- Playback mode

  See Section 5.2 Playback mode.
- Configuration mode

  See Section 5.3 Configuration mode.

5.1 Display mode

After the SISTORE MX NVS application software is started and you have logged on, you will automatically be in display mode. See Section 6.1 Login.

Display mode is used for live surveillance of all cameras. The live images and incoming events are displayed and recorded here.

From display mode you can switch to playback or configuration mode. See Section 7.16 Starting playback mode.

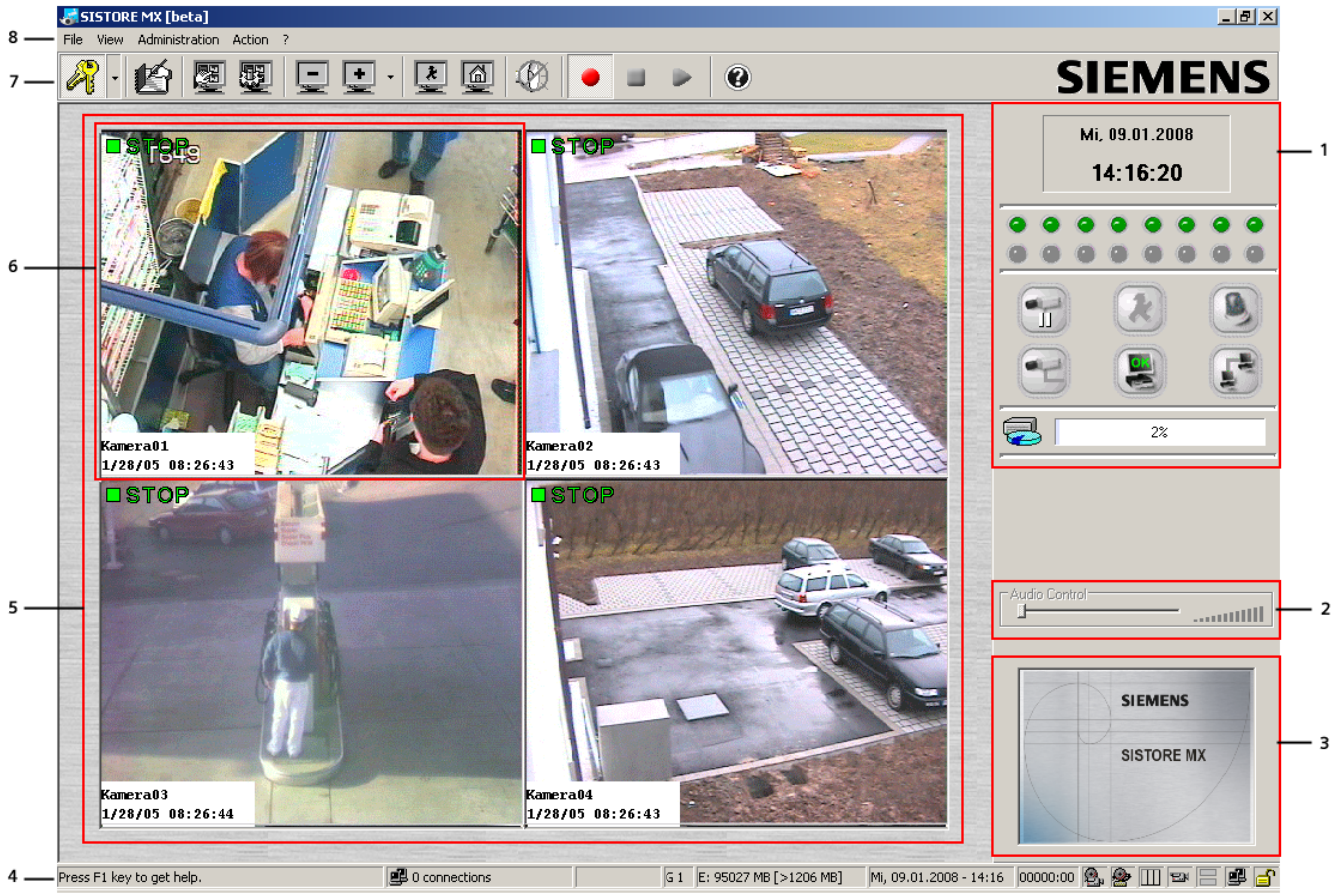


Fig. 1 Program window – Display mode

1	System condition and system information See Section 5.1.3 System condition and system information and Section 7.3.14 Show/hide system information
2	Volume control
3	Starting image
4	Status bar See Section 5.1.2 Status bar and Section 7.3.13 Show/hide status bar
5	Live image display area
6	Camera window
7	Toolbar See Section 5.1.1 Toolbar in display mode
8	menu bar

5.1.1 Toolbar in display mode

You can select various functions of the SISTORE MX NVS application software using the toolbar.

Fig. 2 Toolbar – Display mode

1	Login / Logout See Section 6.1 Login.
2	Display logbook See Section 7.3.15 Show/hide logbook.
3	Next group See Section 7.3.12 Display groups.
4	Automatic scan See Section 7.3.12 Display groups.
5	Show fewer cameras See Section 7.3.2 Changing the number of camera windows shown
6	Show more cameras See Section 7.3.2 Changing the number of camera windows shown
7	Show event view See Section 7.3.6 Show event view.
8	Show map See Section 7.3.7 Show map.
9	Audio on / off See Section 7.14 Audio playback on /off.
10	Record start See Section 7.4 Start/stop recording.
11	Recording stop See Section 7.4 Start/stop recording.
12	Play See Section 8 Functions in playback mode.
13	Help

5.1.2 Status bar

The status bar is at the bottom of the screen. The status bar displays important information.

You can show or hide the status bar. See Section 7.3.13 Show/hide status bar.

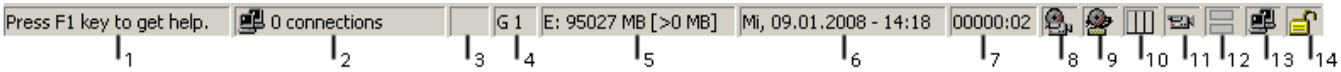


Fig. 3 Status bar

The status bar is divided into 14 sections.

1	**Help text to the menus (Windows standard)**
2	**Number of currently connected clients**
3	**Connection speed**
4	**Currently displayed camera group** See Section 7.3.12 Display groups
5	**Hard disk capacity**
6	**Date and time**
7	**Running time of the SISTORE MX NVS application in hours and minutes**
8	**Status indication of the motion detection** Motion detected No motion detected
9	**Status indication of the alarm detection** Alarm detected No alarm detected
10	**Status indication of the tamper detection** Tamper detection active – no tampering detected. At least one camera has detected a tamper event.
11	**Status indication of the recording activity** (blinking green) cameras OK, recording in progress (grey) cameras OK, no recording activity (red) at least one camera is not working properly
12	**Status indication of the ISDN connection.** ISDN channel 1 and ISDN channel 2 are not busy ISDN channel 1 / ISDN channel 2 are busy, connection is set up Dial-up of ISDN channel 1 / ISDN channel 2
13	**Status indication of the SISTORE RemoteView connections** There is at least one active connection with SISTORE RemoteView No active connection to a SISTORE RemoteView
14	**Status indication of user statuses** User logged in No user logged in

5.1.3 System condition and system information

The system condition as well as system information are displayed at the right upper edge of the screen by default. You can show or hide this information. See Section 7.3.14 Show/hide system information.

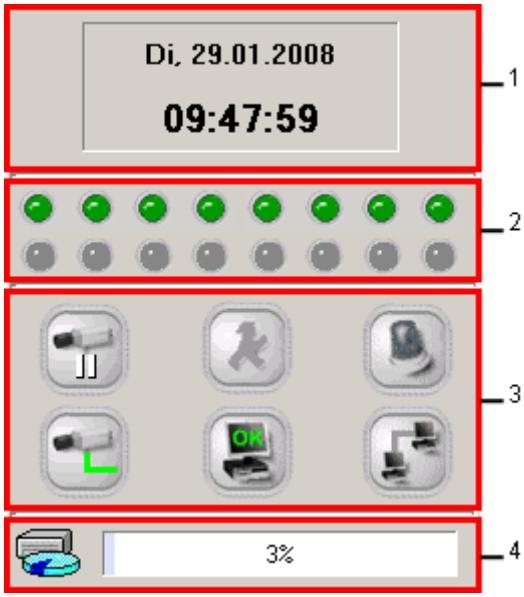


Fig. 4 System condition and system information – Display mode

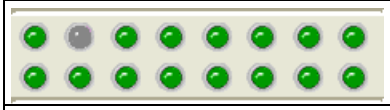
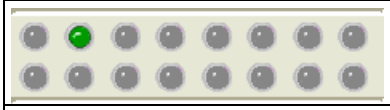
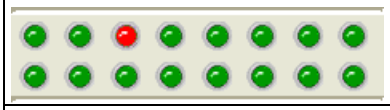
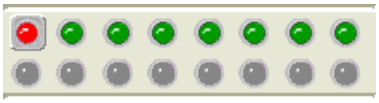
1	Date and time
2	LEDs indicating the status of the alarm outputs (see Tab. 1)
3	Status displays (see Tab. 2)
4	Hard disk capacity

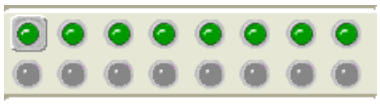
LEDs indicating the status of the alarm outputs

There is one status LED for each of the alarm outputs. For information on the configuration of the alarm outputs please refer to the SISTORE MX NVS Configuration Manual.

When the mouse pointer is moved over a status LED, a popup Quickinfo shows the name of the alarm output.

The meaning of the status LEDs is as follows:

	Grey (top row, 2nd from left) Alarm output is not configured and is not active
	Green (top row, 2nd from left) Alarm output is configured and is not active
	Red (top row, 3rd from left) Alarm output is configured and is active
	Red, surrounded by a rectangular field (top row, 1st from left) Alarm output can be activated or deactivated by the user manually. Alarm output is currently active

	Green, surrounded by a rectangular field (top row, 1st from left) Alarm output can be activated or deactivated by the user manually. Alarm output is currently inactive

Tab. 1 System information – LEDs indicating the status of the alarm outputs

Status displays

The section below the status LEDs contains various status displays.

When the mouse pointer is moved over one of the status displays, a Quickinfo is displayed.

The meaning of the status displays is as follows:

	At least one camera is being recorded
	There is no recording in progress
	No motion detected
	Motion detected
	No alarm detected
	Alarm detected
	Loss of video detected
	Tampering detected See Section 7.7 Acknowledge tamper alarms
	Tampering and loss of video detected See Section 7.7 Acknowledge tamper alarms
	No system error detected
	System error detected See Section 7.6 Acknowledge system errors
	No active connection to a SISTORE RemoteView client
	There is at least one active connection with a SISTORE RemoteView client

Tab. 2 System condition and system information – Status displays

Hard disk capacity

Underneath the status displays, there is a graphic display of the capacity of the hard disks.

If no recording is in progress, the actual hard disk capacity is displayed. When the recording operation is started, the SISTORE MX NVS application software reserves hard disk capacity. The percentage of the hard disk capacity will therefore be slightly increased.

- When the mouse pointer is moved over the display of the hard disk capacity, a Quickinfo is displayed.
- If the frame rate is changed subsequently, the available disk capacity may not be indicated correctly as the calculation of the disk capacity is always based on the maximum frame rate. Further information on this can be found in the SISTORE MX NVS Configuration Manual.

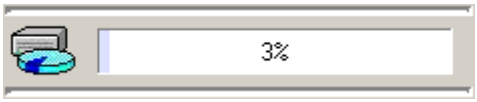


Fig. 5 System condition and system information – Available hard disk capacity

5.2 Playback mode

Playback mode is used for evaluating saved recordings. All the recordings and the relevant additional information are saved in a database where they can be found easily. In playback mode it is further possible to save individual images or complete video sequences. See Section 8 Functions in playback mode.

Access to the playback mode is only possible with the “Playback“ user authorisation. See Section 7.2.1 User rights.

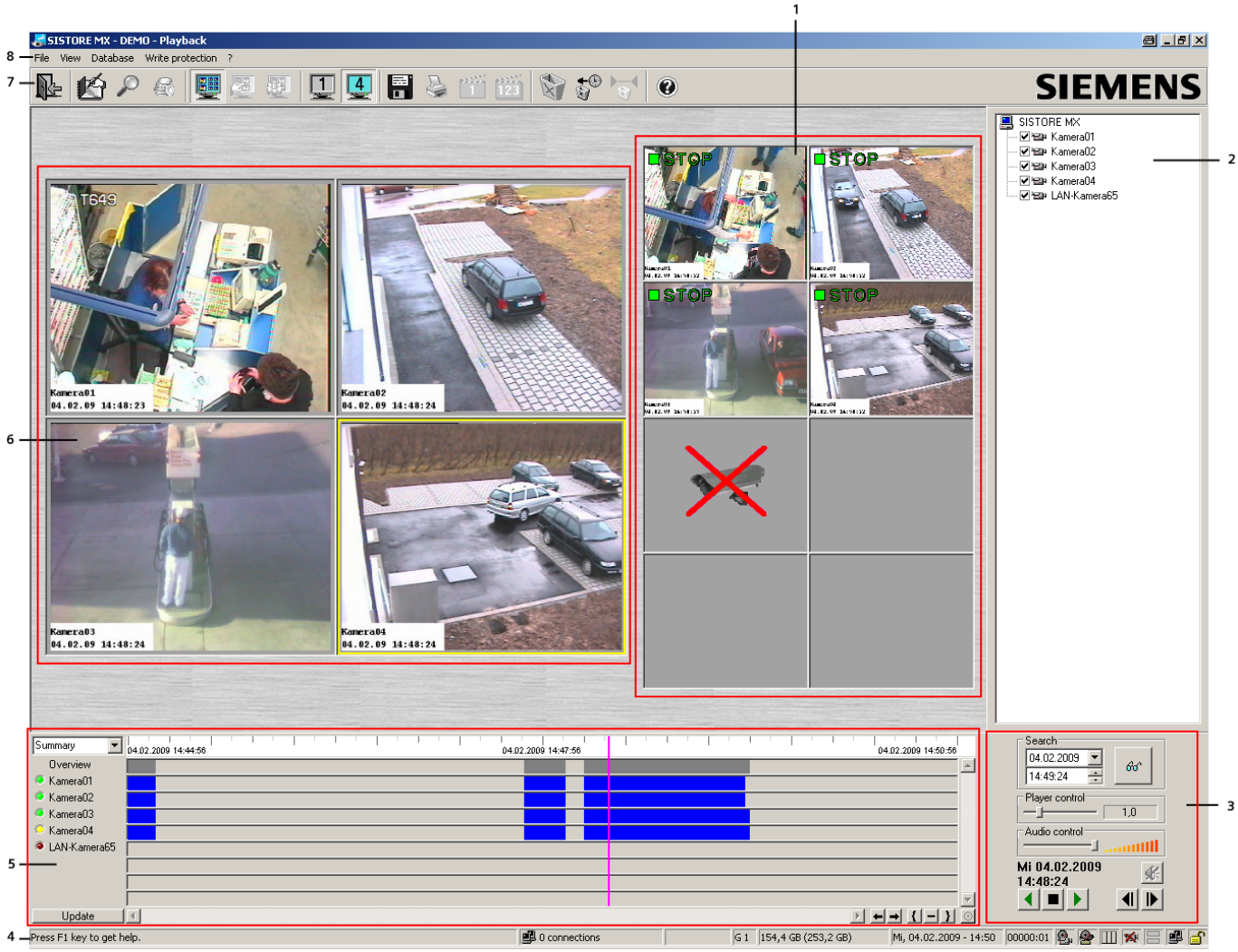


Fig. 6 Program window – Playback mode

1	Live image display area
2	List of cameras
3	Timeline control section
4	Status bar See Section 5.1.2 Status bar and Section 7.3.13 Show/hide status bar.
5	Timeline with cursor
6	Display area for recorded sequences
7	Toolbar See Section 5.2.1 Toolbar in playback mode
8	Menu bar

5.2.1 Toolbar in playback mode

You can select various functions of the SISTORE MX NVS application software using the toolbar.

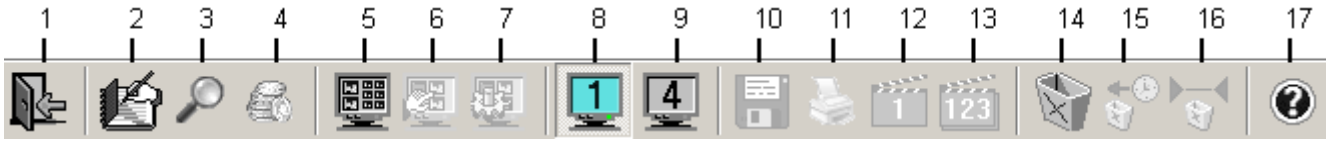


Fig. 7 Toolbar – Playback mode

1	Stop playback
2	Display logbook
3	Show intelligent search options
4	Cash box search
5	Triplex mode on / off
6	Next group
7	Automatic scan
8	1 camera can be viewed
9	4 cameras can be viewed
10	Save scene
11	Print scene
12	Create film sequence
13	Create multiple film sequences
14	Delete all recorded data
15	Delete all older entries
16	Delete recorded data of the selected period
17	Help

5.2.2 Status bar

The status bar is the same in playback mode and in display mode, see Section 5.1.2 Status bar.

5.3 Configuration mode

Access to the configuration mode is only possible with the “Configuration“ user authorisation. See Section 7.2.1 User rights.

Further information on this can be found in the SISTORE MX NVS Configuration Manual.

5.4 Key combinations

You can control various functions in the SISTORE MX NVS application software and in SISTORE Player using key combinations.

Key / key combination	Function in the display mode	Function in playback mode	Function in the SISTORE Player
Ctrl + Alt + 1	PTZ Pos 1	Play backward	-
Ctrl + Alt + 2	PTZ Pos 2	One frame back	-
Ctrl + Alt + 3	PTZ Pos 3	Stop	-
Ctrl + Alt + 4	PTZ Pos 4	One frame forward	-
Ctrl + Alt + 5	PTZ Pos 5	Play forward	-
Ctrl + Alt + 6	Next PTZ camera	Go to beginning	-
Ctrl + Alt + 7	PTZ patrol mode	Timeline zoom-in	-
Ctrl + Alt + 8	Next group	Timeline zoom-out	-
Ctrl + Alt + 9	Change split mode	Go to end	-
Ctrl + Alt + ←	PTZ left	Reduce playback speed	-
Ctrl + Alt + →	PTZ right	Increase playback speed	-
Ctrl + Alt + ↑	PTZ speed +	Single frame forward	-
Ctrl + Alt + ↓	PTZ speed -	Single frame back	-
Ctrl + Alt + R	Show server version (RemoteView only)	-	-
Ctrl + ⇧ + Alt + 1	Start PTZ zoom-in	Speed x 0.1	0.5 images per second
Ctrl + ⇧ + Alt + 2	Start PTZ zoom-in	Speed x 0.5	2 images per second
Ctrl + ⇧ + Alt + 3	Start PTZ zoom-in	Speed x 1	10 images per second
Ctrl + ⇧ + Alt + 4	Start PTZ zoom-in	Speed x 3	15 images per second

Key / key combination	Function in the display mode	Function in playback mode	Function in the SISTORE Player
Ctrl + ⇧ + Alt + 5	Start PTZ zoom-in	Speed x 7.5	25 images per second
Ctrl + ⇧ + Alt + 6	Start PTZ zoom-in	Speed x 20	50 images per second
Ctrl + ⇧ + Alt + 7	Start PTZ zoom-in	Speed x 50	200 images per second
Ctrl + ⇧ + Alt + ←	-	Play backward	-
Ctrl + ⇧ + Alt + →	-	Play forward	-
Ctrl + ⇧ + Alt + A	PTZ up	Volume down	-
Ctrl + ⇧ + Alt + B	PTZ down	Triplex display	-
Ctrl + ⇧ + Alt + C	Full screen	Volume up	-
Ctrl + ⇧ + Alt + D	Switch to playback mode	Switch to live mode	-
Ctrl + ⇧ + Alt + E	Stop PTZ zoom-in/-out	Stop	-
Ctrl + ⇧ + Alt + S	Signal status	-	-
Ctrl + ⇧ + 1	Start PTZ zoom-out	Speed x 0.1	-
Ctrl + ⇧ + 2	Start PTZ zoom-out	Speed x 0.5	-
Ctrl + ⇧ + 3	Start PTZ zoom-out	Speed x 1	-
Ctrl + ⇧ + 4	Start PTZ zoom-out	Speed x 3	-
Ctrl + ⇧ + 5	Start PTZ zoom-out	Speed x 7.5	-

Key / key combination	Function in the display mode	Function in playback mode	Function in the SISTORE Player
Ctrl + ⇧ + 6	Start PTZ zoom-out	Speed x 20	-
Ctrl + ⇧ + 7	Start PTZ zoom-out	Speed x 50	-
Ctrl + ⇧ + M	-	Select time period	-
Ctrl + ←	-	-	Single frame forward
Ctrl + →	-	-	Single frame back
Ctrl + F	Full screen	-	Full screen
Ctrl + G	Next group	-	-
Ctrl + Space	-	-	Play backward
Space	-	-	Play forward
Alt + 1	Change split mode	-	-
Alt + 2	Change split mode	-	-
Alt + 3	Change split mode	-	-
Alt + 4	Change split mode	-	-
Alt + 5	Change split mode	-	-
Alt + 6	Change split mode	-	-
Alt + 7	Change split mode	-	-
Alt + 8	Change split mode	-	-
Alt + 9	Change split mode	-	-
Alt + L	Logbook comment	-	-
Alt + X	End program	-	-
1 ... 9	Move to PTZ position 1...9	-	-
↑	PTZ up	-	Increase playback speed
↓	PTZ down	-	Reduce playback speed
←	PTZ left	-	Single frame forward
→	PTZ right	-	Single frame back

Key / key combination	Function in the display mode	Function in playback mode	Function in the SISTORE Player
+	PTZ zoom in	Increase playback speed	-
-	PTZ zoom out	Reduce playback speed	-
A	-	-	Audio playback
S	-	-	Stop
F1	Help	Help	-
Pos 1	-	-	Go to beginning
End	-	-	Go to end
Page up	-	-	Volume up
Page down	-	-	Volume down
↵	-	Play/Pause	-
🔊+	-	Volume up	-
🔊-	-	Volume down	-
🔇	-	Mute	-
⏭	-	One frame forward	-
⏮	-	One frame back	-
▶/II	-	Play/Pause	-
1 (Numeric keypad)	PTZ left down	-	-
3 (Numeric keypad)	PTZ right down	-	-
5 (Numeric keypad)	PTZ centre	-	-
7 (Numeric keypad)	PTZ left up	-	-
9 (Numeric keypad)	PTZ right up	-	-
0 (Numeric keypad)	PTZ focus near	-	-
+ (Numeric keypad)	PTZ zoom in	-	-
- (Numeric keypad)	PTZ zoom out	-	-
/ (Numeric keypad)	PTZ focus near	-	-

Key / key combination	Function in the display mode	Function in playback mode	Function in the SISTORE Player
(Numeric keypad)	PTZ focus far	-	-
(Numeric keypad)	PTZ focus far	-	-

Tab. 3 Key combinations – SISTORE MX NVS application software and SISTORE Player

6 Setup

6.1 Login

To operate the SISTORE MX NVS application software, you have to log in first.

Without a successful login, you will only have access to the online help. All other functions will not be available; ending the program will also not be possible.

Every time a user attempts to log into SISTORE MX NVS, the following information is recorded in the logbook:

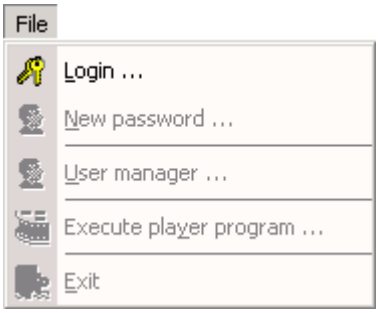
- User name
- Time of the login
- Information on whether or not the user was granted access to SISTORE MX NVS

The password is not stored.

1. Start the SISTORE MX NVS application software.

Following first start, the SISTORE MX NVS application software automatically enters all local hard disks on the list of the disks to be used for recording (exception: partition of the operating system).

2. Select the menu sequence **File > Login…**



➔ The **SISTORE MX Login** dialog box opens.

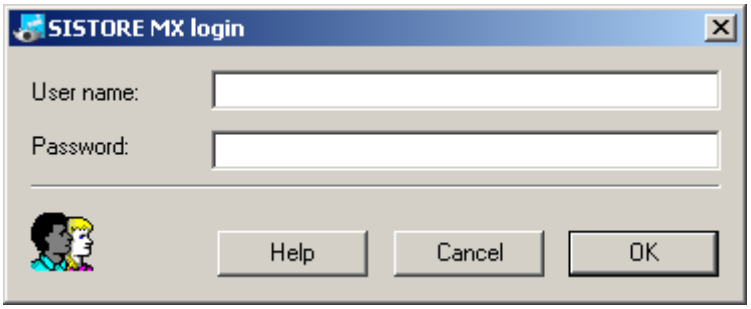


Fig. 8 SISTORE MX NVS Login

3. Enter your **user name** and **password** in the appropriate text fields.

Your user name and password will be created for you by your administrator. The entry of user name and password is case-sensitive.

4. Click **OK**.
   ➔ You are logged into the SISTORE MX NVS application software.
   ➔ You will be in display mode.

Login via the drop-down menu

1. Click the arrow next to the icon **Login** in the toolbar.
   ➔ The following drop-down menu will open.

The drop-down menu displays the user names of the last 5 successful registrations. This function is not available when you log in for the first time.

2. Select the desired user name.
   ➔ The **SISTORE MX Login** dialog box opens (see Fig. 8).
3. Enter the **password**.
4. Click **OK**.
   ➔ You are logged into the SISTORE MX NVS application software.
   ➔ You will be in display mode.

6.2 Log off

Prerequisite:

- You will be in display mode.

1. Select the menu sequence **File > Logout**.

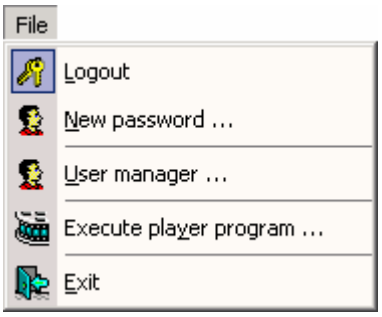


Fig. 9 Menu "File“ – Display mode

   ➔ A confirmation dialog will be opened.
2. Click **Yes**.
   ➔ You are now logged off from the SISTORE MX NVS application software.

6.3 Terminating the SISTORE MX NVS application software

Prerequisites:

- You will be in display mode.
- You have "Start/Stop“ authorisation.
  See Section 7.2.1 User rights.

1. Select the menu sequence **File > Exit**.

➔ The SISTORE MX NVS application is closed.

7 Display mode functions

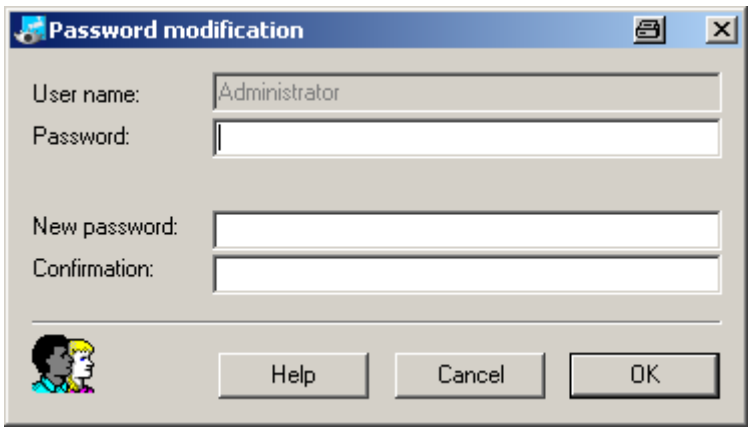
7.1 Change password

Prerequisite:

- You have been authorised to change your password by a user who has user management rights. See Section 7.2.2 Creating/deleting user accounts.

1. Select the menu sequence **File > New password…**

➔ The following dialog box opens.



2. Enter your **old password**.

3. Enter a **new password**.

The password must be at least 8 character long.

4. Enter the new password once more into the **Confirmation** field.

5. Click **OK**.

➔ Your password is now changed.

7.2 User accounts

You can create a user account for each person who will be working with the SISTORE MX NVS application software and assign user rights to these user accounts.

There are two types of user rights (see Section 7.2.1 User rights):

- Global user rights
- Camera-related user rights

7.2.1 User rights

Global user rights

Global user rights apply to all cameras.

User right	Description
Administration	➔ Configure all system settings
Installation	➔ Configure system settings, with restrictions
Configuration	➔ Create and delete users and assign rights ➔ Set up user interface ➔ Configure hardware
User management	➔ Create new users ➔ Deleting existing users ➔ Change the rights of users
Database management	Prerequisite: Playback authorisation ➔ Process the database during playback ➔ Create a backup of the database ➔ Regenerate the database ➔ Check and repair the database ➔ Re-index database
Delete	Prerequisite: Playback authorisation ➔ Delete recordings
Start/Stop	➔ Start/stop recording ➔ Terminate the SISTORE MX NVS application
Live audio	Prerequisite: Camera-related user rights have been assigned ➔ Live image with sound
Remote control	Prerequisite: The alarm outputs have been appropriately configured ➔ Activate and deactivate alarm outputs either locally at the server or via SISTORE RemoteView ➔ Control PTZ camera
Remote access	➔ Log on to the system via SISTORE RemoteView ➔ Remote maintenance and remote surveillance
Playback	Prerequisite for camera-specific playback authorisation Prerequisite for audio playback
Audio playback	Prerequisite: Playback authorisation ➔ Play audio recordings
Export	Prerequisite: Playback authorisation ➔ Export and backup recordings ➔ Create video files (AVI) ➔ Create individual images (BMP or JPG) ➔ Print images

User right	Description
CDM search	Playback authorisation is not mandatory for this. A user who has CDM search authorisation without playback authorisation can switch to playback mode but he can only carry out CDM search functions. They see no logbook, for example. CDM search authorisation can be assigned in the user configuration when banking mode is activated. ➔ Start CDM search when both banking mode and CDM system are activated
Cash box search	Cash box search authorisation can be assigned in the user configuration when cash register mode is activated. ➔ Show cash box data in display mode when cash register mode is activated ➔ Search for cash box data in playback mode

Camera-related user rights

Camera-related user rights are granted for individual cameras.

User right	Description
Display	Display authorisation is not necessary to play the recordings of a camera. The camera-related playback authorisation is sufficient for this. ➔ View the live images of a camera
PTZ	Prerequisite: Display authorisation for the particular camera. ➔ Control a PTZ camera
Playback	Prerequisite: Global playback authorisation This does not apply to cash dispenser cameras and cash box cameras. For cash dispenser cameras the global CDM search right applies; for cash box cameras the global cash box right applies. ➔ Play the recordings of a camera ➔ Start cash box search when cash box system is activated (this is only possible when banking mode is deactivated)

7.2.2 Creating/deleting user accounts

Prerequisite:

- You have the right "user management". See Section 7.2.1 User rights.

1. Select the menu sequence **File > User management…**

➔ The following dialog box opens.

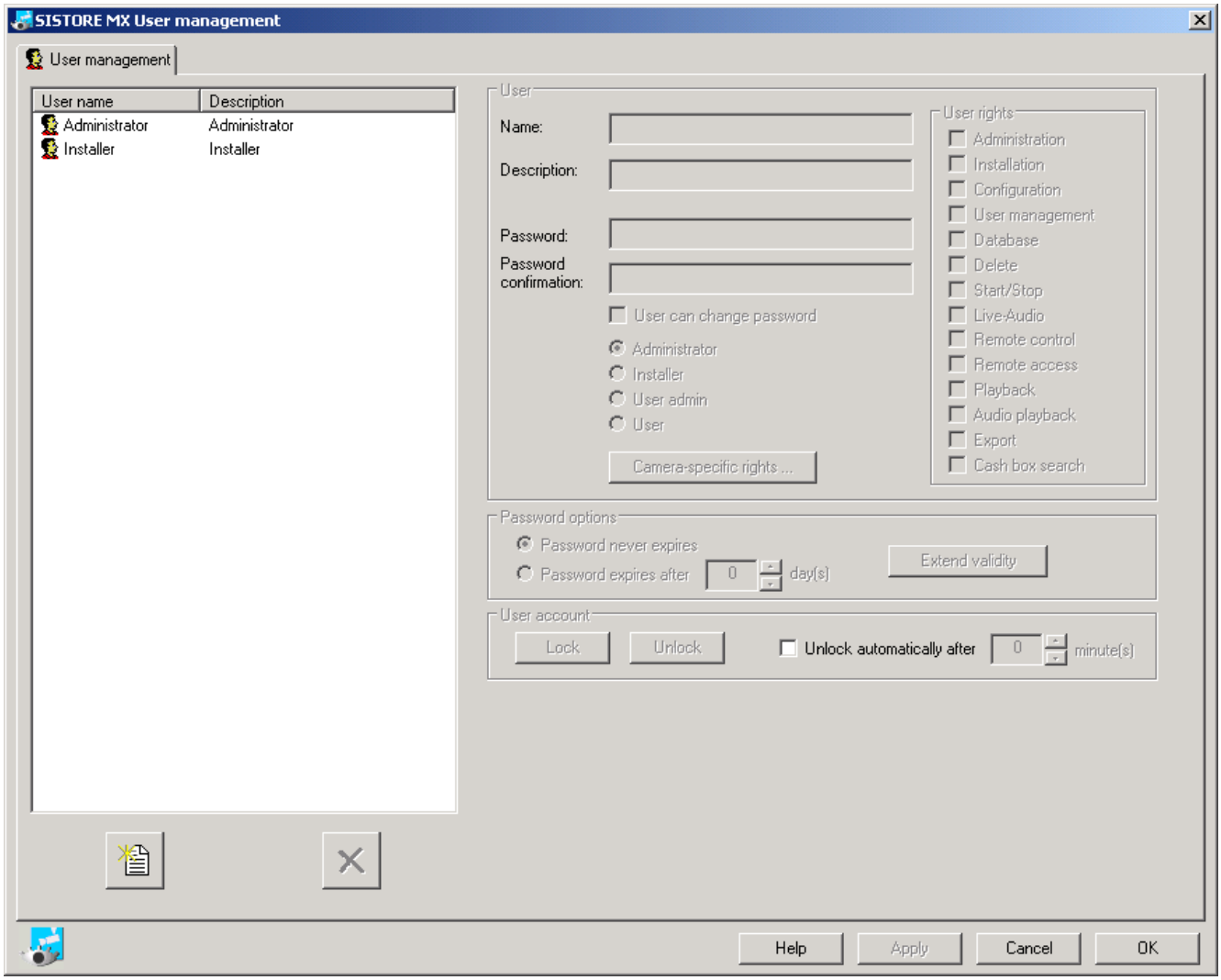
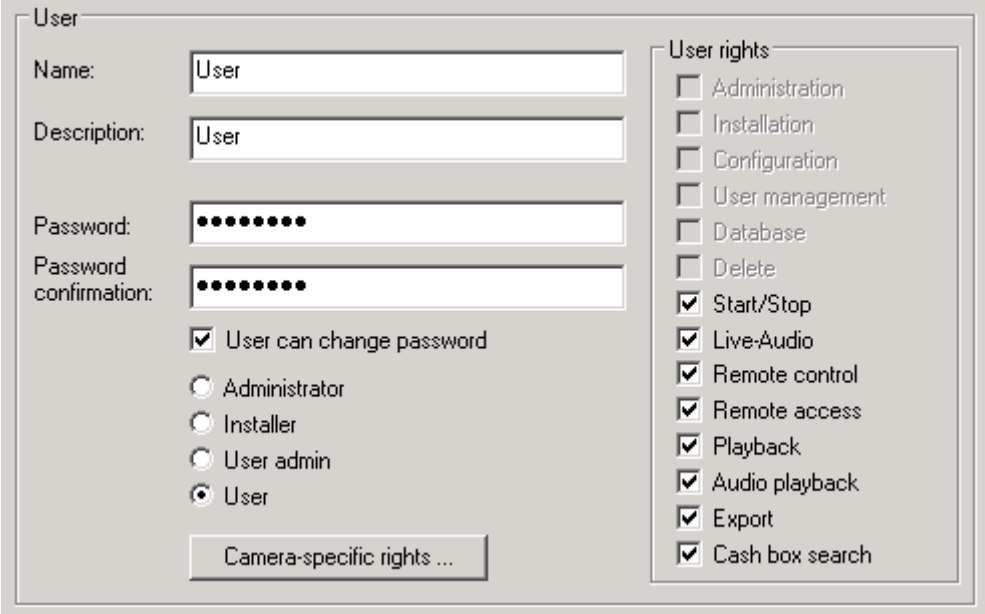


Fig. 10 User administration – Display mode

2. Click the icon **Create new user account**.

➔ The new user account will be created in the list of users.

➔ The **User** and **User rights** group fields are activated.



3. Enter a **name**.
4. Enter a **description**.
5. Enter a **password**.

The password must be at least 8 character long.

6. Repeat the password in the **Password confirmation** field.
7. If the user is to be allowed to change his password himself, mark the checkbox **User can change password**.
8. Select one of the options **Administrator**, **Installer**, **User admin** or **User** for the user.

By selecting **Administrator**, **Installer** and **User admin** the user is automatically assigned predefined rights. Only the **User** can be manually assigned or denied specific rights.

9. If you select the option **User**, you also have to select the desired user rights by marking the corresponding checkboxes in the **User rights** group field.
10. Click **Apply**.
    ➔ The settings have been saved.

Deleting a user account

1. Select the menu sequence **File > User management…**
   ➔ The **SISTORE MX User management** dialog will open.
2. Select the user whose user account you want to delete.
3. Click on the icon **Delete user account**.
   ➔ A confirmation dialog will be opened.
4. Click **Yes**.
   ➔ The user account has been deleted.

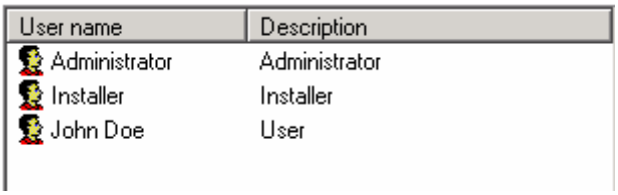
7.2.3 Assigning/denying user rights

Prerequisite:

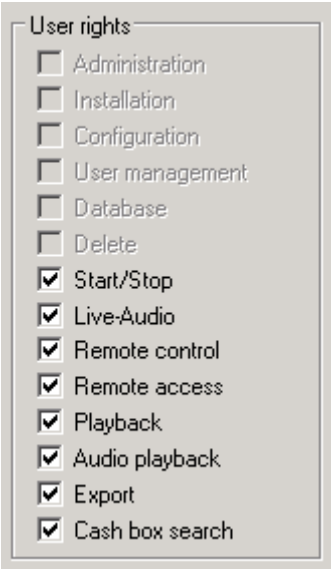
- You have the right "user management".

Assigning/denying global user rights

1. Select the menu sequence **File > User management…**
   ➔ The **SISTORE MX User management** dialog will open.
2. Select the user who is to be assigned or denied rights.



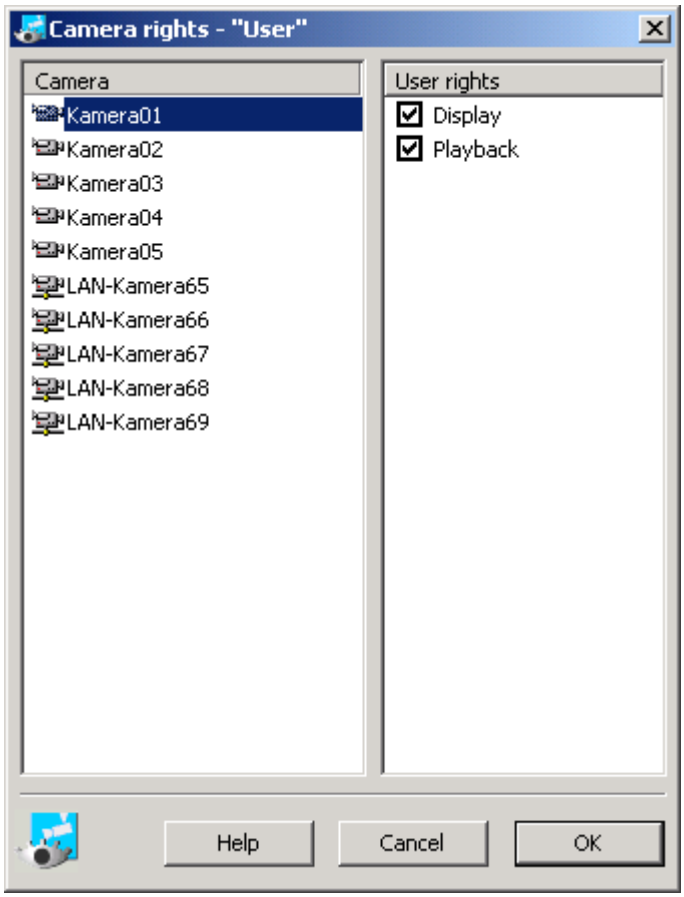
3. In the **User rights** group field, select the desired user rights by marking the corresponding checkboxes.



4. Click **Apply**.
   ➔ The settings have been saved.

Assigning/denying camera-related user rights

1. Select the menu sequence **File > User management…**
   ➔ The **SISTORE MX User management** dialog will open.
2. Select the user who is to be assigned or denied rights.
3. Click on **Camera-specific rights...** in the **User** group field.
   ➔ The following dialog box opens.



4. Select the desired camera in the left column.
5. Select the desired user rights by marking the corresponding checkboxes in the right column.
6. Click **OK**.
   ➔ The dialog will close.
7. Click **Apply** in the **SISTORE MX User management** dialog.
   ➔ The settings have been saved.

7.2.4 Changing the password validity

You can define whether a user's password shall have unlimited validity or whether it shall be valid only for a specific period of time.

Prerequisite:

- You have the right "user management". See Section 7.2.1 User rights.

1. Select the menu sequence **File > User management…**

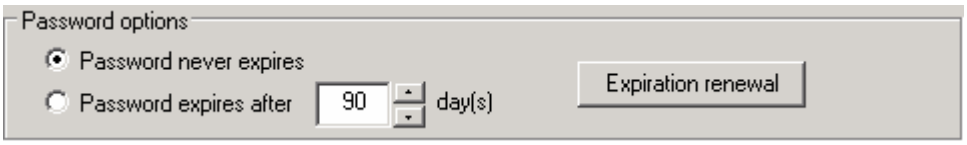
➔ The **SISTORE MX User management** dialog will open.

2. Select the user whose password validity you want to change.

3. In the **Password options** field, select the option **Password never expires**

– OR –

Password expires after XX day(s).



4. If you have selected the option **Password expires after XX day(s)**, select after how many days the password shall expire.

When a password has expired, the corresponding user account will be blocked. The password can only be unblocked again by a user with "user administration" rights. See Section 7.2.5 Locking/unlocking user accounts.

The validity of a password can be extended before it expires.

1. To extend the validity of a password click on **Expiration renewal** in the **Password options** group field.

5. Click **Apply**.

➔ The expiry date of the password has been changed.

7.2.5 Locking/unlocking user accounts

Prerequisite:

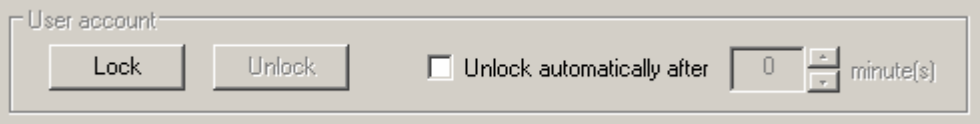
- You have the right "user management". See Section 7.2.1 User rights.

1. Select the menu sequence **File > User management…**

➔ The **SISTORE MX User management** dialog will open.

2. Select the user whose user account you want to block or unblock.

3. In the **User account** group field, click on either **Lock** or **Unlock**.



4. To unlock a user account automatically after a specific period of time, mark the checkbox **Unlock automatically after XX minute(s)** and select after how many minutes the user account is to be unlocked again.

5. Click **Apply**.

➔ The user account is now locked or unlocked.

7.3 Display screen in display mode

7.3.1 Multi-monitor mode

In multi-monitor mode, SISTORE MX, SISTORE MX NVS and SISTORE MX RemoteView support up to four monitors. The main monitor displays the operator interface of the application software. The application software can be operated via this monitor.

The following functions can be assigned to the monitors:

- **Display monitor**
  The display monitor displays live images.
- **Event monitor**
  The event monitor displays events. An event can be either a movement or an alarm.
- **Sequence monitor**
  On a sequence monitor, live images can be displayed in an automatic cycle, by event-based control, or by manual control.
- **Site plan monitor**
  On a site plan monitor, the site plan is displayed in full screen mode.
- **Message dialog monitor**
  The message dialog monitor displays all pop-up dialogs. The main monitor can also be used as message dialog monitor.

The allocation of the monitor functions can be configured. Further information on this can be found in the SISTORE MX NVS Configuration Manual.

7.3.2 Changing the number of camera windows shown

In the configuration mode you can define how many camera windows will be displayed automatically after the SISTORE MX NVS application software is started. Further information on this can be found in the SISTORE MX NVS Configuration Manual.

Prerequisite:

- The option "Allow changes by user“ has been activated in the configuration mode. Further information on this can be found in the SISTORE MX NVS Configuration Manual.

Selecting the number of camera windows to be displayed

1. Select the desired number of cameras in the **View** menu

– OR –

Click the arrow next to the icon in the toolbar and select the desired number of cameras from the drop-down menu.

Fig. 11 Menu "View“

If a monitor with 16:10 screen format is connected, additional display mode options for the 16:10 format will be displayed.

➔ The selected number of cameras will be displayed.

Show more / fewer cameras

1. To show more cameras, click the icon in the toolbar.

– OR –

To show fewer cameras, click the icon in the toolbar.

➔ The number of cameras shown will be increased or reduced.

Display all cameras

In the auto matrix display mode, all cameras are displayed in the live image display area at the same time.

1. Select the menu sequence **View > Auto. matrix**

– OR –

Click on the arrow next to the icon **More cameras** in the toolbar select **Auto. matrix** from the drop-down menu.

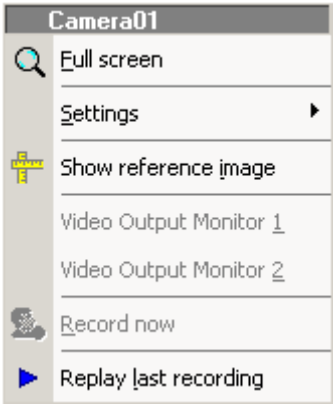
➔ The display area is spit automatically.

7.3.3 Change/reset image parameters

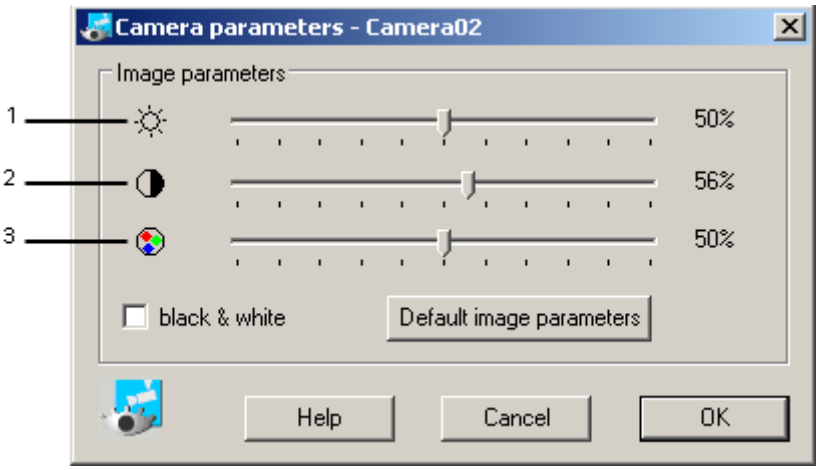
You can set various image parameters for live image display and recording. The settings are camera-specific.

It depends on the type of camera whether or not and which image parameters can be set.

1. Right-click on the desired camera window.
   ➔ A context menu will open.
2. Select **Settings > Image parameters** from the context menu.



   ➔ The following dialog box opens.



1	**Brightness**
2	**Contrast**
3	**Colour saturation**

3. If the camera image is to be displayed in black-and-white, mark the checkbox **black & white**.

When the **black & white** checkbox is activated, the slide control for colour saturation (3) is inoperable.

4. Move the slide controls for **brightness**, **contrast** and **colour saturation** to the desired position.

5. Click **OK**.

➔ The image parameters have been changed.

Reset default image parameters

Prerequisite:

- The **Camera parameters** dialog box is open.

1. Click on **Default image parameters**.

➔ A confirmation dialog will be opened.

2. Click **Yes**.

➔ The default image parameters have been restored.

7.3.4 Interchanging camera windows

You can arrange the cameras in the live image display area in any desired combination by interchanging 2 camera windows
(see Fig. 12).

1. Click on the camera window whose position you want to change.

2. Drag the camera picture to the desired window while holding the left mouse button pressed.

3. Release the left mouse button.

➔ The camera windows have been interchanged.

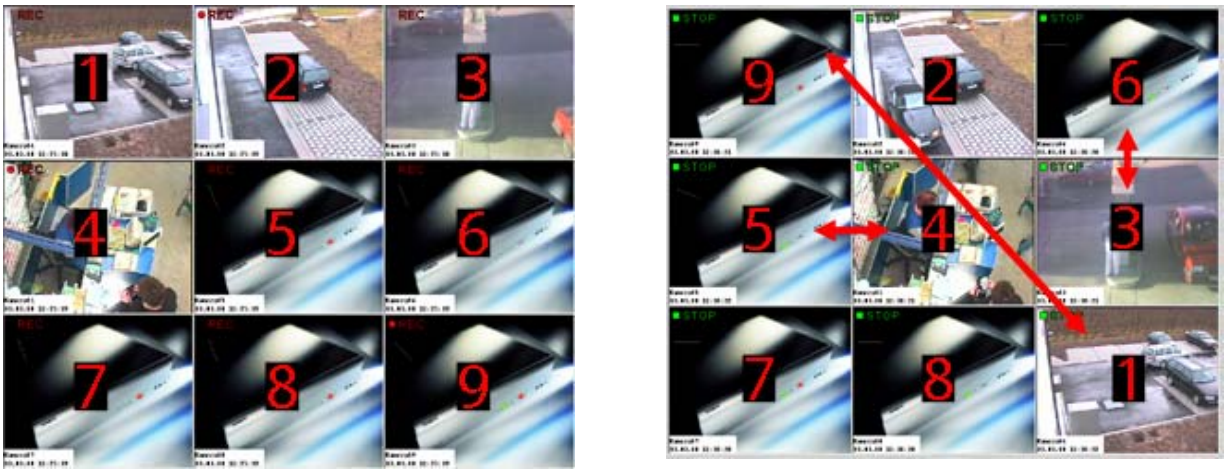


Fig. 12 Live image display area – Interchanging camera windows

7.3.5 Display reference image

A reference frame documents the image section of a camera at the time when the reference frame was generated. Following installation and setup of the camera the image section displayed can be stored as a reference image in the configuration mode. Further information on this can be found in the SISTORE MX NVS Configuration Manual.

You can display the reference frame of a camera at any time to compare it to the current image. This function is available in display and in playback mode.

Prerequisites:

- You have the camera-specific rights "Playback“ and "Display“. See Section 7.2.1 User rights.
- A reference image for the selected camera has been saved in the configuration mode. Further information on this can be found in the SISTORE MX NVS Configuration Manual.

1. Right-click on the desired camera window.
   ➔ A context menu will open.
2. Select **Show reference frame** from the context menu.
   ➔ The following window will open.

7.3.6 Show event view

Prerequisite:

- The option "Allow changes by user“ has been activated in the configuration mode. Further information on this can be found in the SISTORE MX NVS Configuration Manual.

1. Select the menu sequence **View > Event view** (see Fig. 11).
   ➔ The event view window is opened.

To exit the event view, repeat the above step.

7.3.7 Show map

Prerequisites:

- The option "Allow changes by user“ has been activated in the configuration mode. Further information on this can be found in the SISTORE MX NVS Configuration Manual.
- A map has been saved in the SISTORE MX NVS application software. Further information on this can be found in the SISTORE MX NVS Configuration Manual.

Display/remove map

1. Select the menu sequence **View > Map** (see Fig. 11).

➔ The map will be displayed or removed.

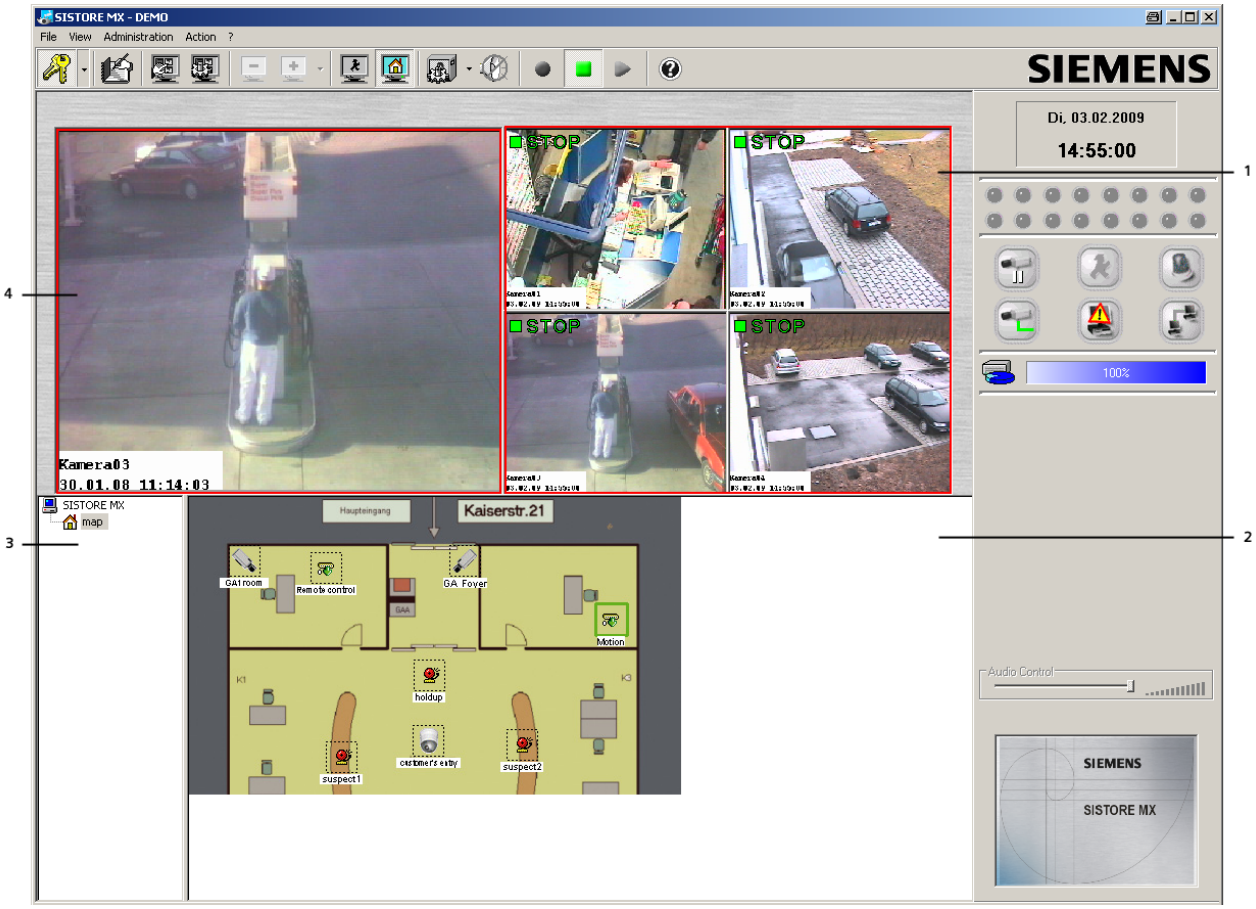


Fig. 13 Map – Display mode

1	Live images
2	Map with objects
3	Map list
4	Camera window for the selected camera

Selecting cameras from the map

1. Select the desired map in the map list.

➔ The map is opened.

2. Click on a camera object in the map.

➔ The live image of the camera will be displayed in the camera window for the selected camera.

7.3.8 Display/hide the live image display area

1. Select the menu sequence **View > Display on** or **Display off** (see Fig. 11).

➔ The live image display area will be shown or hidden.

7.3.9 Enlarging camera windows

Each camera window can be enlarged and displayed centrally.

1. Right-click on the desired camera window.

➔ A context menu will open.

2. Select **Full screen** in the context menu.

   – OR –

   Double-click on the desired camera window.

➔ The camera window will be enlarged and displayed centrally.

Return to normal screen

1. Right-click on the enlarged camera window.

➔ A context menu will open.

2. Select **Normal screen** from the context menu.

   – OR –

   Double-click on the enlarged camera window.

➔ You are in the normal screen mode.

7.3.10 Zooming in

You can zoom in on a specific image section of the live image to be able to see important details.

1. Press the <CTRL> key and drag a rectangle around the desired image section while holding the left mouse button pressed.

2. Release the left mouse button.

➔ The selected image section is enlarged.

To display the full video image again, double click the left mouse button on the camera window.

7.3.11 Starting/exiting full screen mode

Either the entire live image display area or individual camera pictures can be shown in full screen mode.

Live image display area in full screen mode

1. Select the menu sequence **View > Full screen** (see Fig. 11).

➔ The entire live image display area will be displayed in full screen mode.

Individual camera windows in full screen mode

Prerequisite:

- The entire live image display area will be displayed in full screen mode.

1. Right-click on the desired camera window.

➔ A context menu will open.

2. Select **Full screen** in the context menu.

– OR –

3. Double-click on the desired camera window.

➔ The camera window will be displayed in full screen mode.

1. To show the entire live image display area in full screen mode again, right-click on the camera window.

2. Select **Normal screen** from the context menu.

Return to normal screen

1. Press the **Esc** key.

➔ You are in the normal screen mode.

7.3.12 Display groups

The camera windows that are displayed simultaneously in the live image display area form a "display group“. You can display the groups manually or start an automatic picture sequence. This function is available in display and in playback mode.

Prerequisite:

- Several display groups have been defined as there are too many cameras to be displayed at the same time.

Display next group

1. Select the menu sequence **View > Next display group**

– OR –

Click on .

➔ The next group will be displayed.

Start/stop automatic scan

1. Select the menu sequence **View > Automatic scan**

– OR –

Click on .

➔ The display groups will be scanned automatically.

To stop the automatic scan cycle, repeat the above step.

7.3.13 Show/hide status bar

The status bar is available in display mode and in playback mode (see Section 5.1.2 Status bar).

1. Select the menu sequence **View > Statusbar visible** (display mode) or **Statusbar visible** (playback mode).

➔ The status bar will be visible or invisible.

7.3.14 Show/hide system information

The system condition as well as system information are displayed at the right upper edge of the screen by default. See Section 5.1.3 System condition and system information.

1. Select the menu sequence **View > Display system information** (see Fig. 11).

➔ The system information will be visible or invisible.

7.3.15 Show/hide logbook

The following information is automatically registered in the logbook:

- Date and time of each logbook entry
- Time of login and logout of each user (including failed attempts)
- Start and stop of the SISTORE MX NVS application software
- Switching to display, playback, and configuration mode
- Alarm messages
- System errors
- Beginning and end of a backup process and possible errors
- Comments added manually by a user (see Section 7.8 User comment)

The information listed above will always be recorded in the logbook. You can however decide whether the logbook will be visible or not.

1. Select the menu sequence **View > Logbook visible** (display mode) or **Logbook** (playback mode).

➔ The logbook will be visible or invisible.

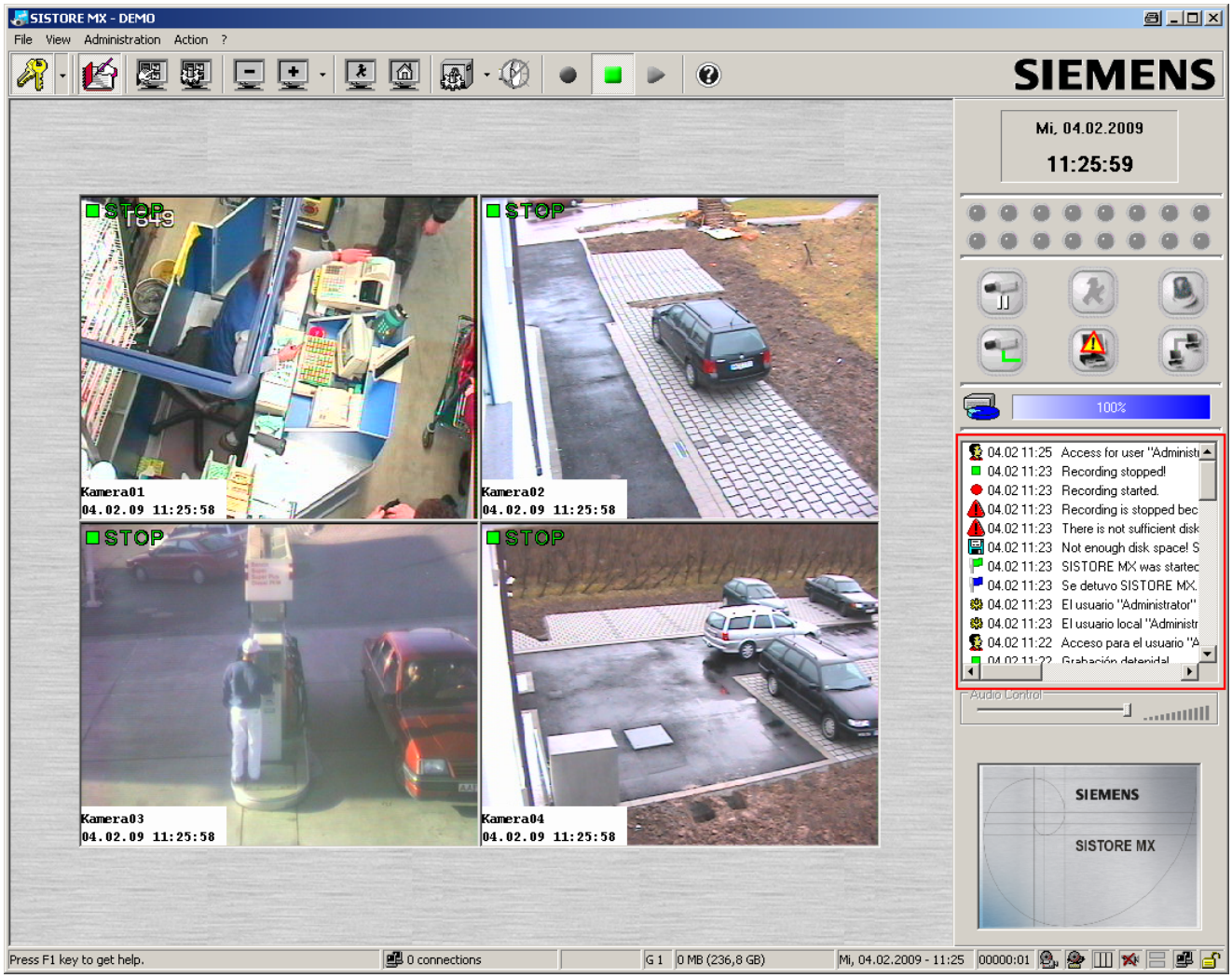


Fig. 14 Logbook – Display mode

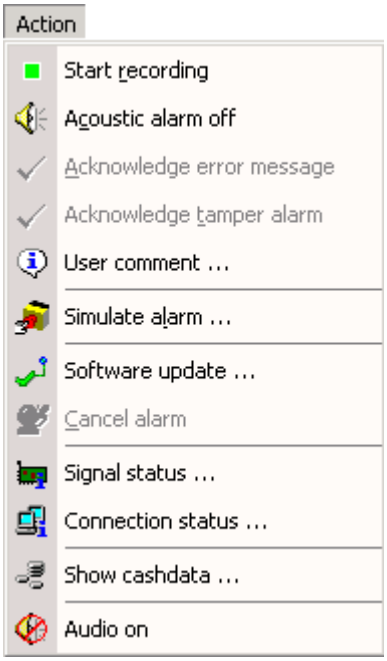
7.4 Start/stop recording

Prerequisite:

- You have "Start/Stop“ authorisation. See Section 7.2.1 User rights.

Start record

1. Select the menu sequence **Action > Start recording**.



➔ Recording has been started.

Stop record

1. Select the menu sequence **Action > Stop recording**.

➔ A confirmation dialog will be opened.

2. Click **Yes**.

➔ Recording has been stopped.

7.5 Acoustic alarm on/off

You can define whether SISTORE MX NVS is to send a brief acoustic signal in the case of an alarm occurring.

Prerequisite:

- The option "Audio signal“ has been activated in the configuration mode. Further information on this can be found in the SISTORE MX NVS Configuration Manual.

1. Select the menu sequence **Action > Acoustic alarm on** or **Acoustic alarm off**.

➔ The acoustic alarm is activated or deactivated.

7.6 Acknowledge system errors

You can manually clear system errors.

System errors include for instance a defective hard disk or the untimely termination of the SISTORE MX NVS application software (e.g. as a result of a power failure).

Prerequisite:

- A system error has been detected. See Section 5.1.3 System condition and system information.

1. Select the menu sequence **Action > Clear errors**.
   ➔ The system error has been cleared.

7.7 Acknowledge tamper alarms

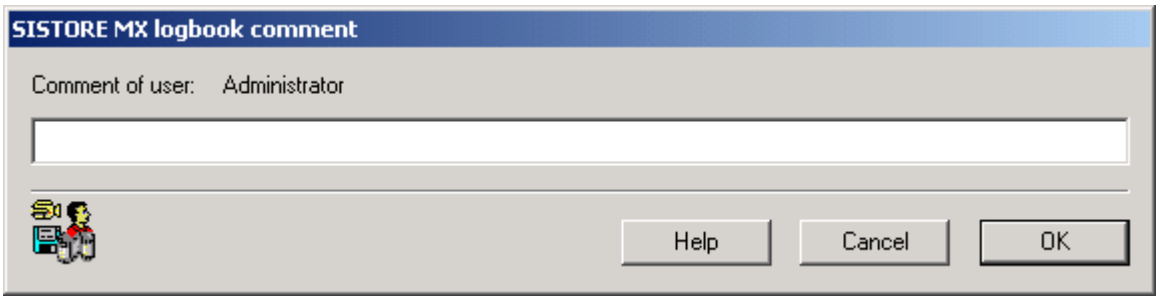
Prerequisite:

- A tampering event has been detected. See Section 5.1.3 System condition and system information.

1. Select the menu sequence **Action > Confirm sabotage**.
   ➔ The tampering has been acknowledged.

7.8 User comment

1. Select the menu sequence **Action > User comment…**
   ➔ The following dialog box opens.



2. Enter your comment in the text field.
3. Click **OK**.
   ➔ The comment has been added to the logbook.

7.9 Simulate alarm

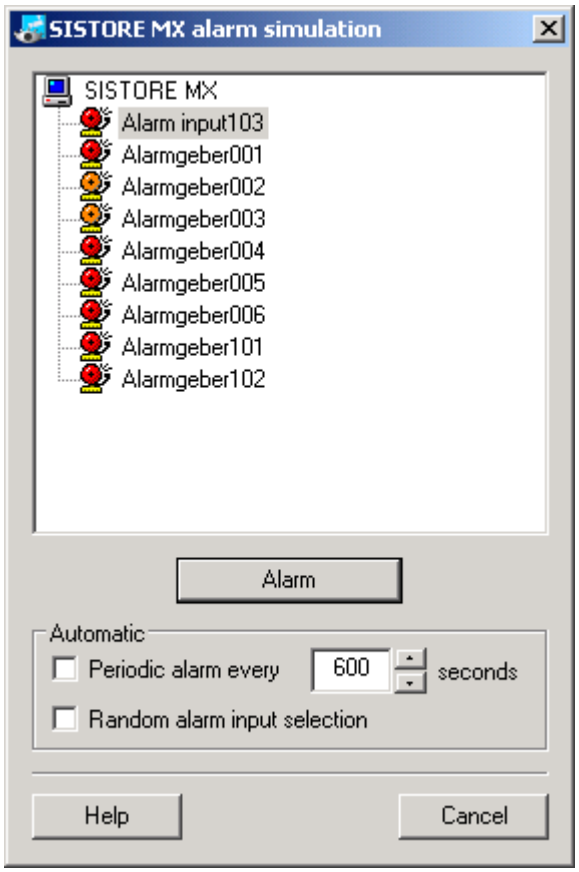
It is possible to simulate alarms for test and/or practice purposes.

Prerequisite:

- The option "Allow alarm simulation“ has been activated in the configuration mode. Further information on this can be found in the SISTORE MX NVS Configuration Manual.

1. Select the menu sequence **Action > Simulate alarm…**

➔ The following dialog box opens.



2. Select the desired alarm input.

– OR –

Mark the checkbox **Random alarm input selection**.

3. If the alarm is to be repeated after a predefined time, mark the checkbox **Periodic alarm every XX seconds** and select the desired time in seconds.

4. Click on **Alarm**.

➔ The alarm simulation has been started.

7.10 Cancel alarm

Alarms can be cancelled manually. This will be recorded in the logbook.

Prerequisites:

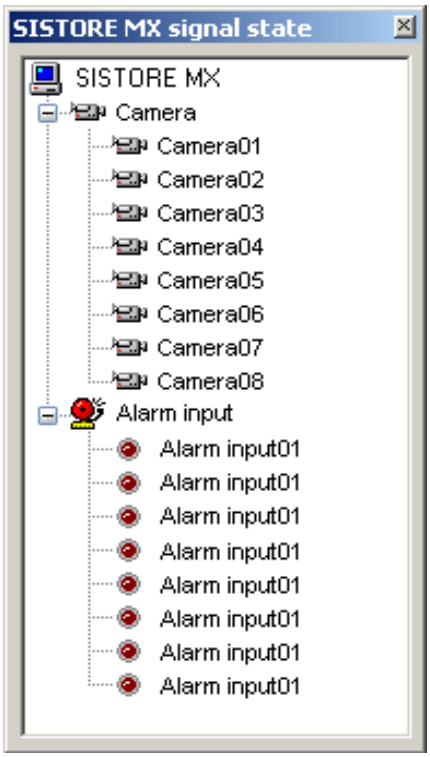
- An alarm has been detected.
- The option "Breakable by user“ is activated in the configuration mode. Further information on this can be found in the SISTORE MX NVS Configuration Manual.

1. Select the menu sequence **Action > Cancel alarm**.
   ➔ The alarm has been cancelled.

7.11 Display signal state

You can view the signal statuses of the cameras, alarm inputs, alarm outputs and digital inputs.

1. Select the menu sequence **Action > Signal state…**
   ➔ The following dialog box opens.



Only objects that have been configured in the SISTORE MX NVS application software will be displayed in this window. Further information on this can be found in the SISTORE MX NVS Configuration Manual.

The symbols next to the cameras, alarm inputs, alarm outputs and digital inputs indicate the status of the individual objects.

	Camera is sending a signal.
	Camera is not sending any signal.
	Motion detected by camera.
	Tamper event detected by camera.
	Alarm input is active.
	Alarm input is inactive.
	Alarm output is active.
	Alarm output is inactive.

Activating/deactivating alarm outputs

Prerequisite:

- The option "Remote controllable“ has been activated for the corresponding alarm output in the configuration mode. Further information on this can be found in the SISTORE MX NVS Configuration Manual.

1. Select the menu sequence **Action > Signal state…**

➔ The **SISTORE MX signal state** dialog box will open.

2. Double click on the icon to the left of the desired alarm output in the **SISTORE MX signal status** dialog box.

➔ The alarm output has been activated or deactivated.

7.12 Display connection status

You can view the status of the connections to SISTORE RemoteView clients. See Section 10 SISTORE RemoteView.

1. Select the menu sequence **Action > Connect state…**

   ➔ The following window will open.

Terminate connections

You can terminate existing connections to SISTORE RemoteView clients.

Prerequisite:

- There is a connection to at least one SISTORE MX RemoteView client.

1. Select the menu sequence **Action > Connect state…**

   ➔ The **SISTORE MX connection** dialog will open.

2. In the **SISTORE MX connection** dialog, double click on a symbol showing there is an active connection.

   ➔ The connection has been terminated.

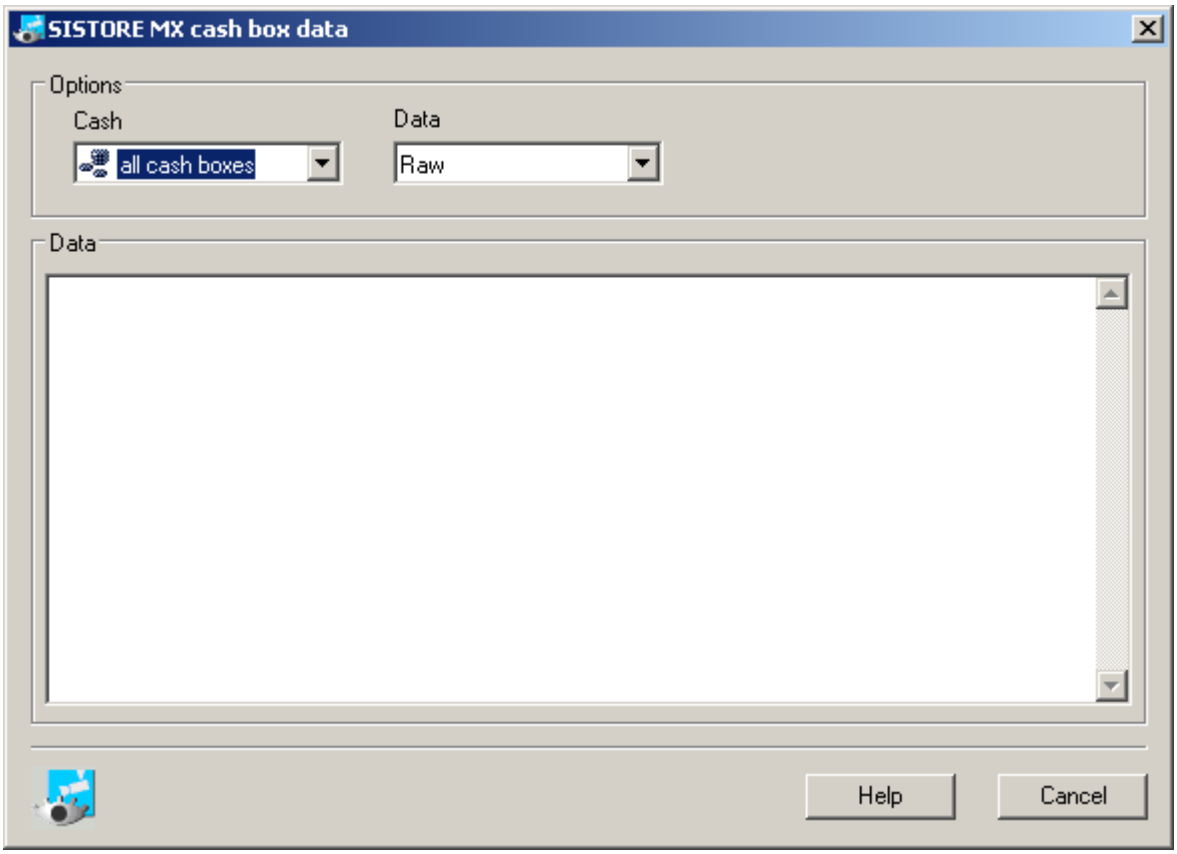
7.13 Showing cash box data

Prerequisites:

- The SISTORE MX NVS application software is in cash box mode. Further information on this can be found in the SISTORE MX NVS Configuration Manual.
- You have the right "cash box search".
  See Section 7.2.1 User rights.
- At least on cash box has been configured in the configuration mode and is listed in the cash box list. Further information on this can be found in the SISTORE MX NVS Configuration Manual.

1. Select the menu sequence **Action > Show cashdata…**

➔ The following dialog box opens.



2. In the **Options** group field under **Cash**, select either **all cash boxes** or select the desired cash box.

3. In the **Options** group field under **Data**, select either **Raw**, **Codepage** or **Filtered**.

Raw	All cash box data will be shown.
Codepage	The cash box data will be shown according to the codepage loaded.
Filtered	The cash box data will be shown according to the filters configured . Changes to the filter settings will be seen with the next data received. Further information on this can be found in the SISTORE MX NVS Configuration Manual.

➔ The cash box data will be shown.

7.14 Audio playback on /off

Prerequisite:

- A microphone is connected and audio recording has been activated.

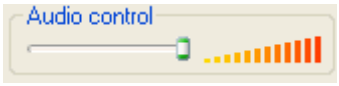
1. Select the menu sequence **Action > Audio on** or **Audio off**

   – OR –

   Click either or in the timeline control section.

   ➔ Audio playback is activated or deactivated.

2. Move the slide control in the **Volume control** group field to the desired position to adjust the volume of the audio file.



   ➔ The volume of the audio playback is increased or reduced.

7.15 Control PTZ cameras

There are several possibilities to control specific PTZ cameras via the SISTORE MX NVS application software:

- Using a keyboard (see Sections 5.4 Key combinations and 7.15.1 Controlling PTZ cameras using the keyboard)
- Using a standard joystick / Jog Shuttle
  (see, e.g., Section 9.2 Control using the Multimedia Control Panel)
- Using the control panels CKA4810 and CKA 4820
  (see Section 9.1 Control using CKA4810/CKA4820 control panels)
- Using the graphical control element in the display mode (see Section 7.15.2 Controlling PTZ cameras using graphical control elements)

7.15.1 Controlling PTZ cameras using the keyboard

Prerequisite:

- You have the camera-specific rights "Display“ and "PTZ control“. See Section 7.2.1 User rights.

Key	Function
	Tilt PTZ camera up
	Tilt PTZ camera down
	Pan PTZ camera to the left
	Pan PTZ camera to the right
(Numeric keypad)	PTZ left down
(Numeric keypad)	PTZ down
(Numeric keypad)	PTZ right down
(Numeric keypad)	PTZ left
(Numeric keypad)	PTZ centre
(Numeric keypad)	PTZ right
(Numeric keypad)	PTZ left up
(Numeric keypad)	PTZ up
(Numeric keypad)	PTZ right up
	Zoom in
	Zoom out
	Focus far
	Focus near

7.15.2 Controlling PTZ cameras using graphical control elements

Prerequisite:

- You have the camera-specific rights "Display“ and "PTZ control“. See Section 7.2.1 User rights.
- SISTORE MX NVS supports the protocol of the connected PTZ camera(s). Further information on this can be found in the SISTORE MX NVS Configuration Manual.
- The option "PTZ“ has been configured and activated for the selected camera(s) in the configuration mode. Further information on this can be found in the SISTORE MX NVS Configuration Manual.

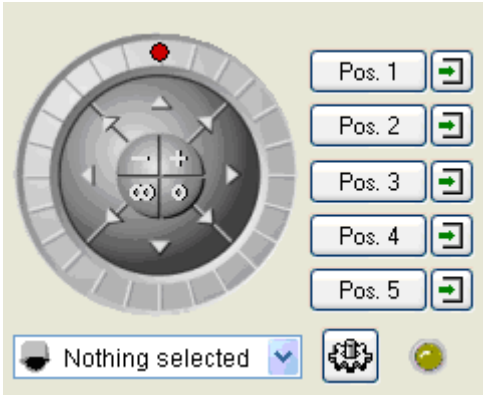


Fig. 15 Graphical control elements – PTZ control

Setting the moving speed

Prerequisite:

- The selected camera supports variable moving speeds.

1. Click the red dot in the control element and keep the left mouse button pressed.
2. Move the red dot in a semi-circle to the desired position.

➔ The moving speed has been set.

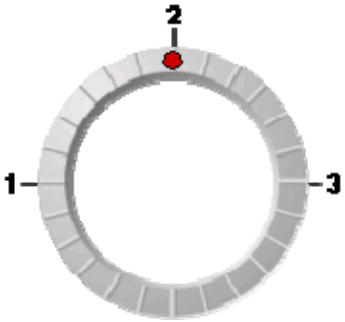


Fig. 16 Setting the moving speed

1	Minimum moving speed
2	Medium moving speed
3	Maximum moving speed

Panning/tilting the PTZ camera

1. Click the corresponding arrow in the control element.

➔ The PTZ camera will pan or tilt in the desired direction.

Fig. 17 Panning/tilting the PTZ camera

Zooming

1. To zoom in, click on the control element .

– OR –

To zoom out, click on the control element .

Manual focus adjustment

The PTZ cameras that are supported by SISTORE MX NVS have an auto-focus feature. Manual focus adjustment is therefore necessary only in exceptional cases, e.g. to focus text that was zoomed in.

1. To focus a distant object (focus far) click on the control element .

– Or–

To focus a close object (focus near) click on the control element .

Moving cameras automatically to predefined positions

Prerequisite:

- Automatic camera positioning has been configured. Further information on this can be found in the SISTORE MX NVS Configuration Manual.

1. In the list of camera positions, select the position (Pos. 1 to Pos. 5) to which the PTZ camera should be moved.

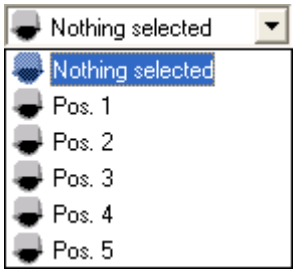


Fig. 18 List of camera positions

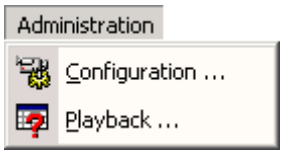
➔ The camera automatically moves to the selected position.

7.16 Starting playback mode

Prerequisite:

- You have the right "playback“. See Section 7.2.1 User rights.

1. Select the menu sequence **Administration > Playback…**



➔ Playback mode is started. See Section 5.2 Playback mode and Section 8 Functions in playback mode.

8 Functions in playback mode

8.1 Display screen in playback mode

8.1.1 Single-channel or multi-channel playback

In the display area for recorded sequences you can view either the recording of a single camera (single-channel playback) or the recordings of any four cameras simultaneously (multi-channel playback).

1. Select the menu sequence **View > Single channel replay** or **Multi channel replay**.

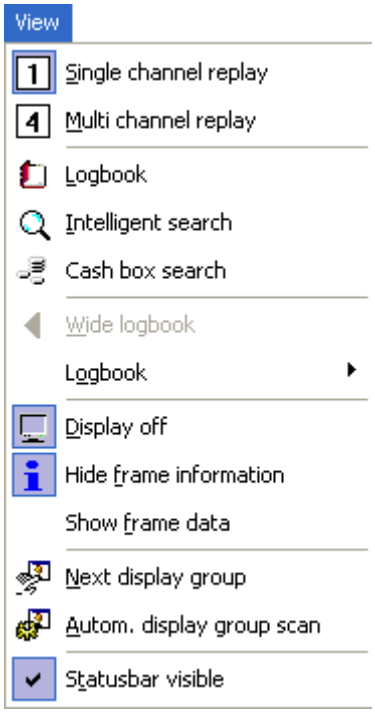


Fig. 19 Menu "View“

➔ Either one or four recorded sequences will be played back.

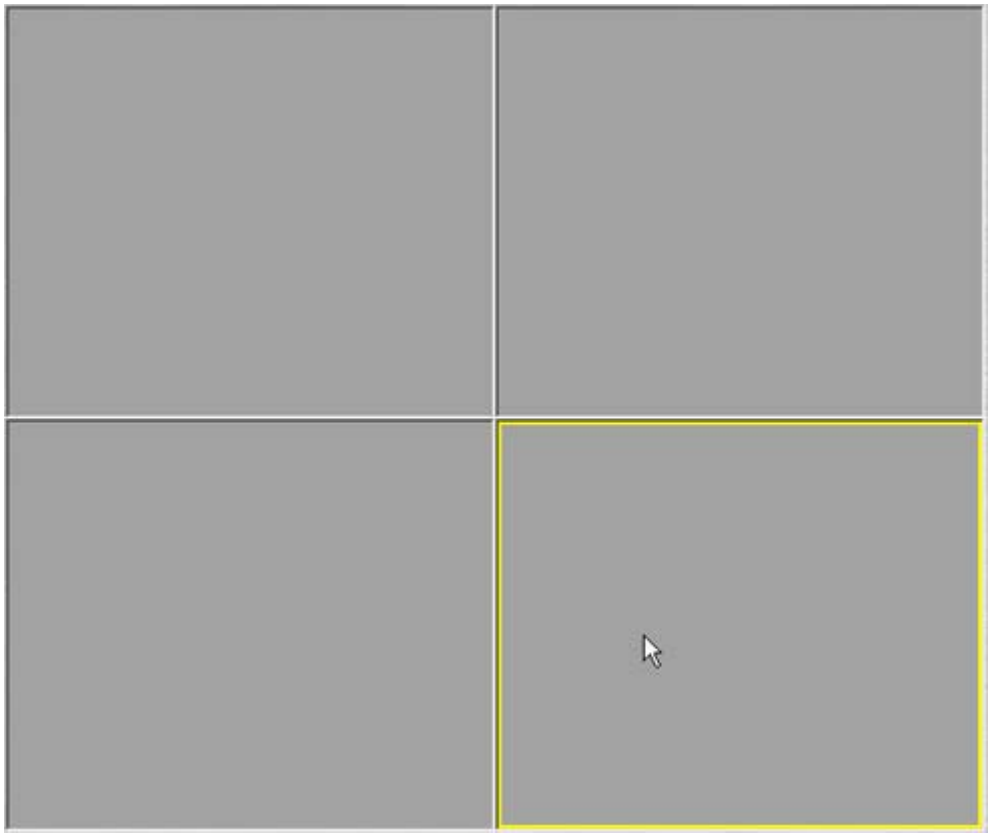
Assigning cameras to the camera windows in multi-channel playback mode

Prerequisite:

- You have selected multi-channel playback.

1. In the display area for recorded sequences, click on the camera window to which you want to assign a specific camera.

➔ The camera window is marked with a yellow surround.



2. In the left column of the timeline, click on the name of the camera you want to assign to the selected camera window.

➔ The selected camera is assigned to the marked camera window and its recorded sequences are played back.

Assigning cameras in single-channel playback mode

1. In the left column of the timeline, click on the name of the camera you want to assign to the camera window.

➔ The selected camera is assigned to the camera window and its recorded sequences are played back.

8.1.2 Display/hide the live image display area

In the playback mode, you can play back recorded sequences and at the same time view the current live images.

1. Select the menu sequence **View > Display on** or **Display off**.

➔ The live image display area will be shown or hidden.

8.1.3 Show/hide frame information

The frame information can be displayed either for all cameras or for none of them. The frame information contains the file name of the recording as well as the number of the image currently displayed.

1. Select the menu sequence **View > Show frame information** or **Hide frame information** (see Fig. 19).

➔ The frame information will be visible or invisible.

8.1.4 Show/hide frame data

1. Select the menu sequence **View > Show frame data** or **Hide frame data**.

➔ The frame data will be visible or invisible.

8.2 Triplex operation

Triplex operation means that recording, playback and display of live images is possible simultaneously.

Triplex operation is only available in the SISTORE MX NVS application software.

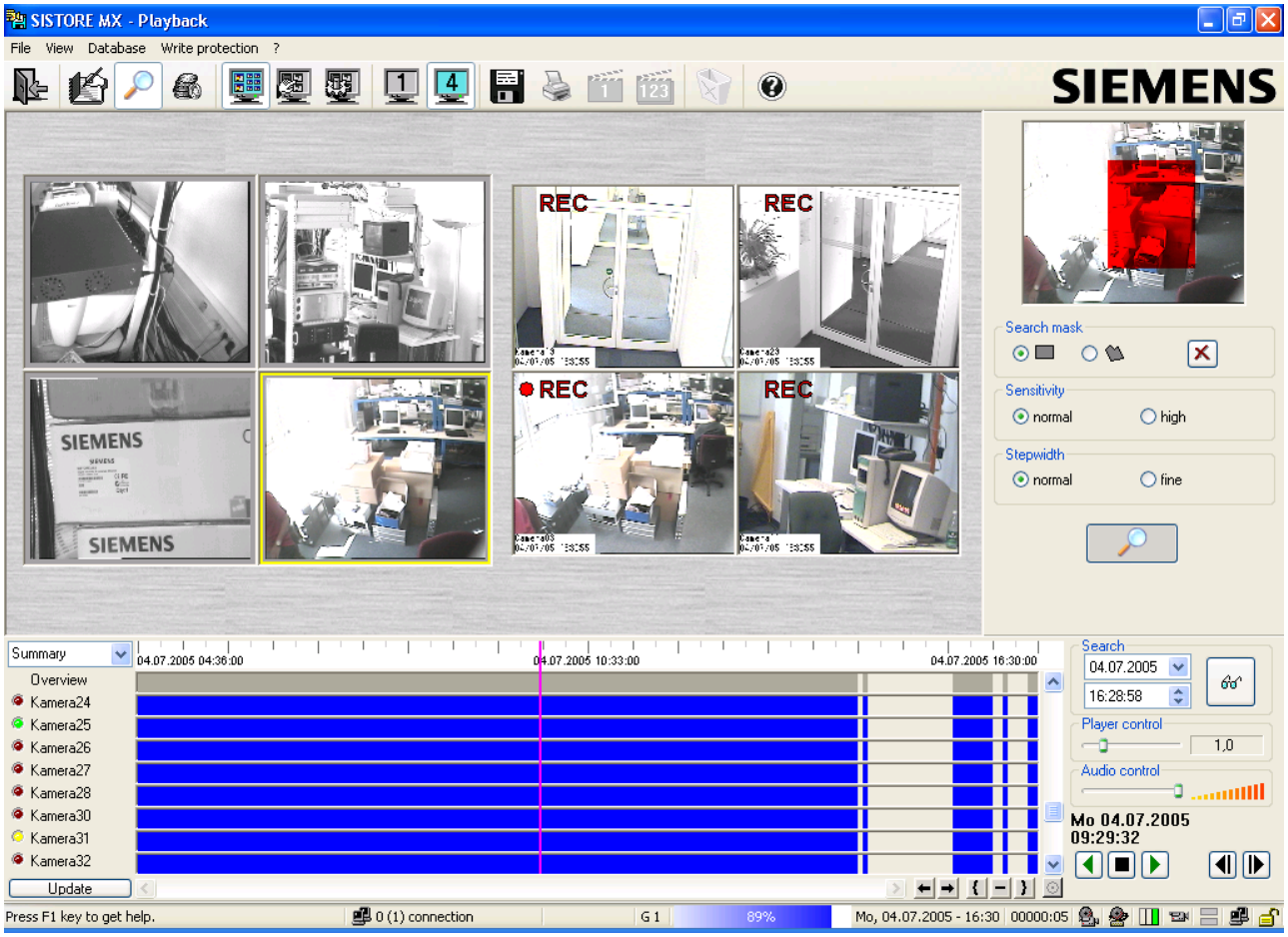


Fig. 20 Triplex operation at playback level

Display of live images at playback level

Select the menu sequence **View** -> **Display on** or click the button . The setting is stored (though not user-related). Live images are displayed flush left of the logbook or the Search Mask dialog in a column. The image size is QCIF format. The image can be digitally enhanced by double-clicking on it. The number of displayed cameras depends on the VGA resolution of the system. With a resolution of 1024 x 768, 2 cameras are displayed, with a resolution of 1280 x 1024 4 cameras.

If there are more cameras than can be displayed, camera groups are formed as on the monitor level. Switching over from one camera group to another is then carried out manually or automatically in the same way as on the monitor level (menu **View** -> **Next display group**; **View** -> **Auto. display group scan**).

8.3 Logbook

The logbook is available in playback mode just like in display mode. The enhanced logbook functions are however only available in playback mode.

8.3.1 Show/hide logbook

1. Select the menu sequence **View > Logbook**.

➔ The logbook will be visible or invisible.

8.3.2 Wide/small logbook

Prerequisite:

- The logbook is displayed.

1. Select the menu sequence **View > Wide logbook** or **Small logbook** (see Fig. 19).

– OR –

Right-click on the logbook.

➔ The following context menu will open:

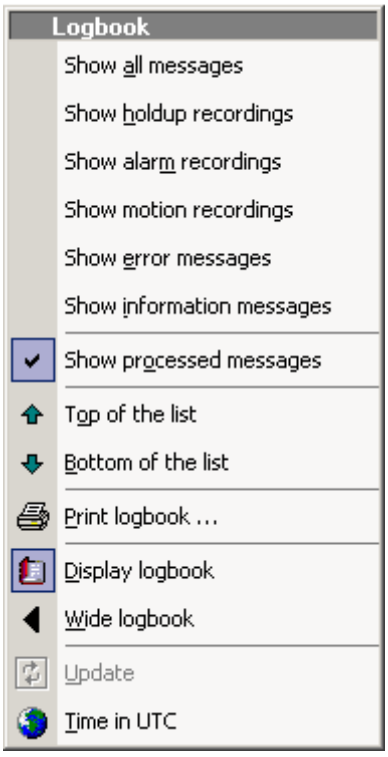


Fig. 21 "Logbook“ context menu

2. Select **Wide logbook** or **Small logbook** from the context menu.

➔ The wide or the small logbook will be displayed.

8.3.3 Filtering log entries

You can filter log entries using the following message types:

Filter type	Explanation
Show all messages	All the messages of the different message types will be displayed.
Show holdup recordings	Only the messages of message type "holdup“ will be displayed.
Show alarm recordings	Only the messages of message type "alarm“ will be displayed.
Show motion recordings	Only the messages of message type "motion“ will be displayed.
Show error messages	Only the messages of message type "error“ will be displayed.
Show information messages	Only the messages of message type "information“ will be displayed.
Show processed messages	This filter can be activated additionally. When it is selected, those entries (messages) which have been processed already will also be displayed. These are indicated by grey symbols.

Prerequisite:

- The logbook is displayed.

1. Right-click on the logbook.
➔ A context menu will open (see Fig. 21).
2. Select a filter from the context menu.
➔ The log entries are filtered.

8.3.4 Updating log entries

Prerequisite:

- The logbook is displayed.

1. Right-click on the logbook.
➔ A context menu will open (see Fig. 21).
2. Select **Update** in the context menu.
➔ The log entries are updated.

8.3.5 Printing log entries

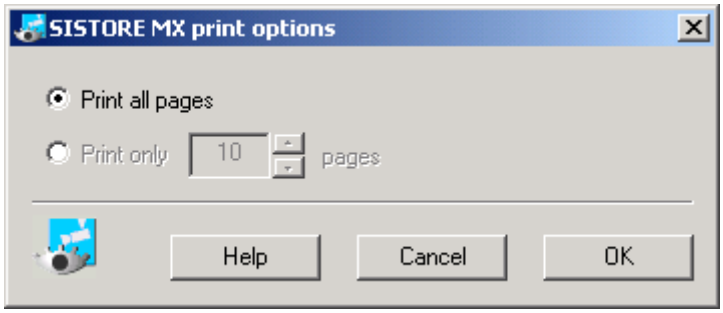
Prerequisites:

- The logbook is displayed.
- At least one printer is connected to the system and has been configured for the application. Further information on this can be found in the manual for your printer.

Log entries are always printed according to the current filter settings. Log entries that were filtered out will not be printed.

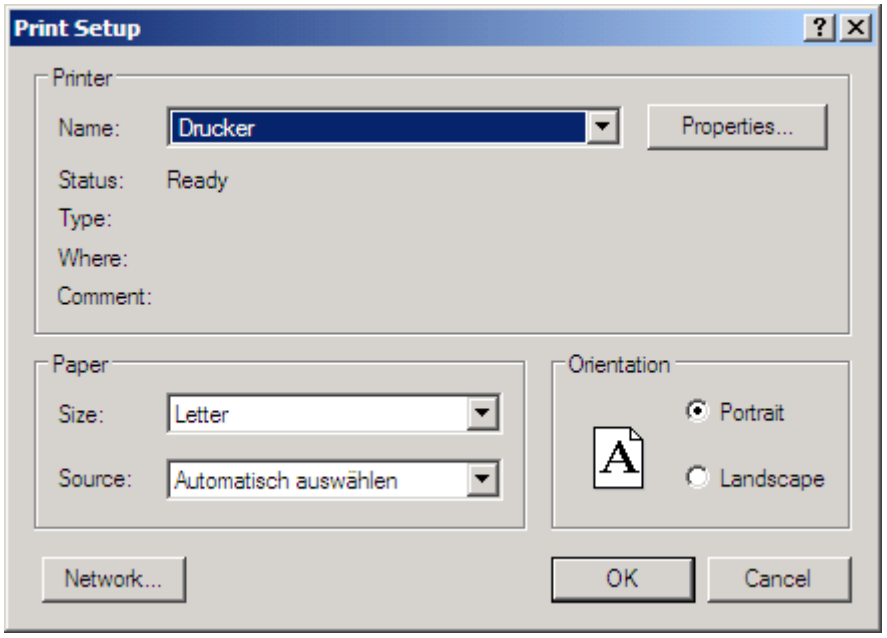
1. Right-click on the logbook.
➔ A context menu will open (see Fig. 21).
2. Select **Print logbook…** in the context menu.

➔ The following dialog box opens.



3. Select either **Print all pages** or **Print only XX pages**.
4. If you select **Print only XX pages**, select also the number of pages to be printed.
5. Click **OK**.

➔ The following dialog box opens.



6. Select the desired printer in the **Name** drop-down list in the **Printer** group field.
7. Select the **Size** and **Source** of the paper in the **Paper** group field.
8. In the **Orientation** group field, select either **Portrait** or **Landscape**.
9. Click **OK**.

➔ The log entries will be printed.

8.3.6 Time in UTC/local time for log entries

Prerequisite:

- The logbook is displayed.

1. Right-click on the logbook.

➔ A context menu will open (see Fig. 21).

2. Select **Time in UTC** or **Local time** from the context menu.

➔ The time displayed for the log entries is either UTC time or local time.

8.4 Playback control

There are various possibilities to play recorded sequences in playback mode. Playback is mainly controlled using the timeline and the timeline control section (see Fig. 22).

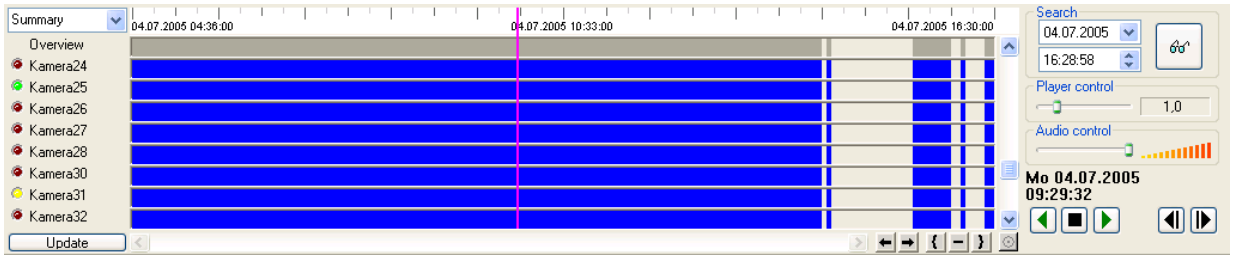


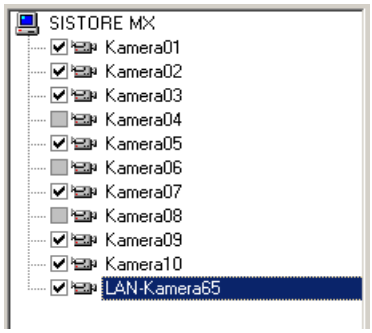
Fig. 22 Timeline and timeline control section – Playback mode

Prerequisite:

- There are existing recordings.

Adding/deleting the camera track in the timeline

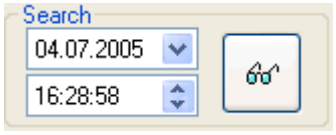
1. Mark or unmark the checkbox(es) of the desired camera(s) in the camera list.



➔ The track of the selected camera has been added or deleted in the timeline.

Setting the timeline cursor to a specific time

1. Select the desired date in the **Search** group field in the timeline control section.



2. Select the desired time in the **Search** group field in the timeline control section.

3. Click on .

➔ The timeline cursor is at the selected position.

Replaying recordings/stopping playback

There are several possibilities to play back recorded sequences.

	Replay forward
	Replay backward
	One frame forward
	One frame back
	Stop playback

1. Move the timeline cursor to the desired position.
2. Click on the desired playback control icon.

Increase/reduce playback speed

1. Move the **Player control** slider to the desired position.

➔ The playback speed is increased or reduced.

Audio playback on /off

Prerequisite:

- There are audio existing recordings.
- You have the right "audio playback“.

1. Click either or in the timeline control section.

➔ Audio playback is activated or deactivated.

2. Move the slide control in the **Volume control** group field to the desired position to adjust the volume of the audio file.

➔ The volume of the audio playback is increased or reduced.

8.5 Zooming in

You can zoom in on a specific image section of the recorded sequence to be able to see important details. This function is available while playing the recording and when playback has been stopped.

Prerequisite:

- There are existing recordings.

1. Press the left mouse button and drag a rectangle around the desired image section.

2. Release the left mouse button.

➔ The selected image section is enlarged.

To display the full video image again, double click the left mouse button on the camera window.

Zoom interpolation on/off

When zoom interpolation is switched on, additional pixels are added to the recording being played by calculating mean values
(see Fig. 23 and Fig. 24).

Fig. 23 Enlarged image section – without zoom interpolation

Fig. 24 Enlarged image section – with zoom interpolation

1. Right-click on the desired recording.

➔ A context menu will open.

2. Select **Zoom interpolation** from the context menu.

➔ Zoom interpolation is switched on or off.

8.6 Printing images

You can print individual images of a recording on a local printer or on a network printer. The image is always printed as it is displayed in the camera window.

Prerequisite:

- At least one printer is connected to the system and has been configured for the application. Further information on this can be found in the manual for your printer.

1. Select the desired camera in the timeline.
2. Press the left mouse button and move the timeline cursor to the desired position.
   ➔ The image you want to print is displayed.
3. Click the icon **Print scene** in the toolbar.
   – OR –
   Select the menu sequence **File > Print scene**.

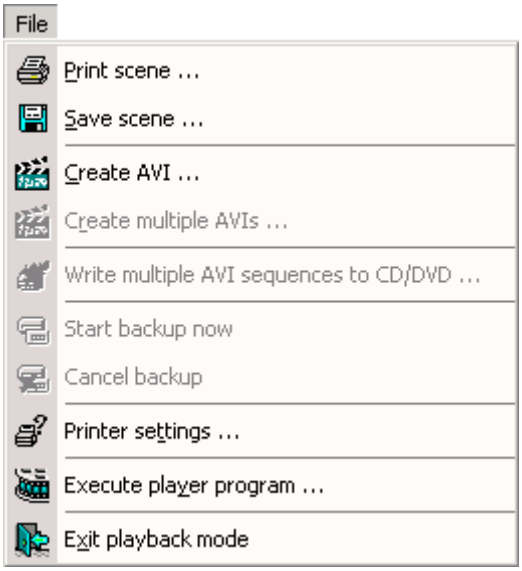
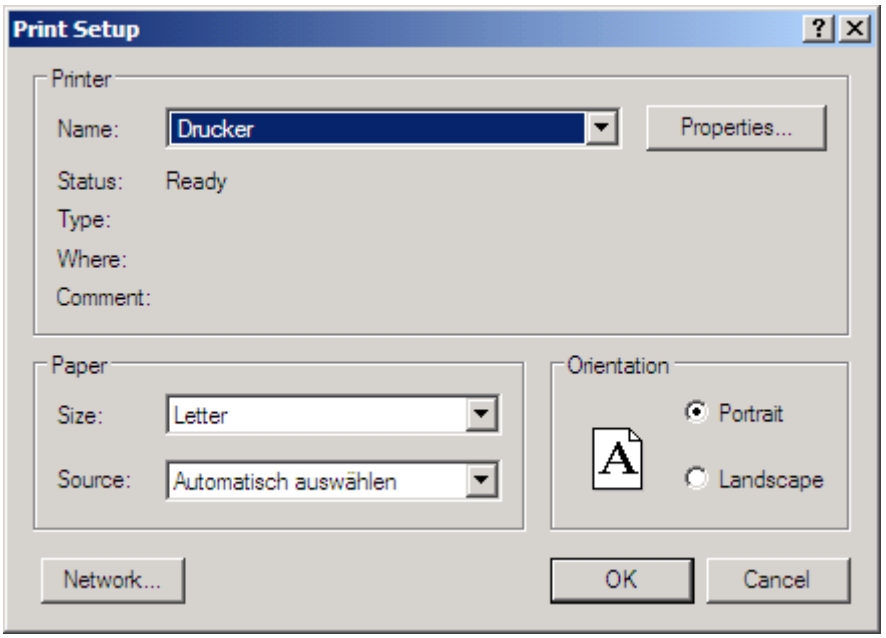


Fig. 25 Menu "File“ – Playback mode

➔ The following dialog box opens.



4. Select the desired printer in the **Name** drop-down list in the **Printer** group field.
5. Select the **Size** and **Source** of the paper in the **Paper** group field.
6. Select **Portrait** in the **Orientation** group field.

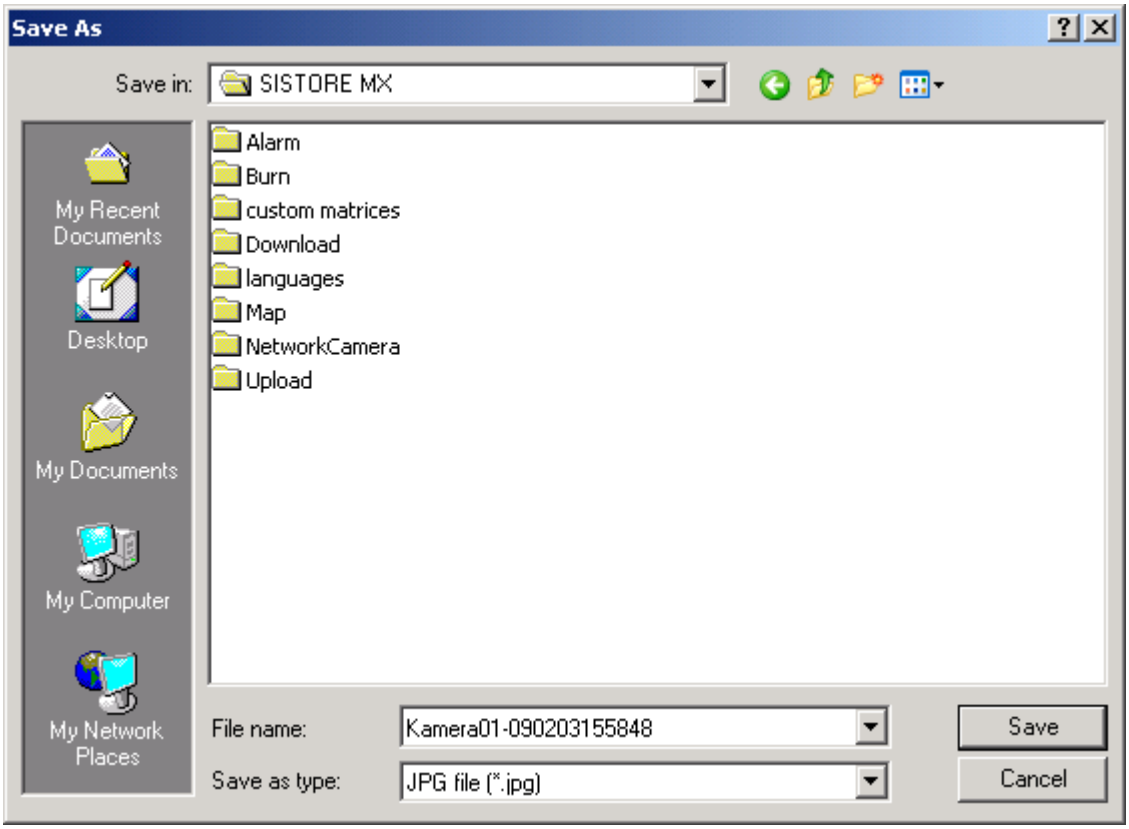
   – OR –

   Select **Landscape** in the **Orientation** group field.
7. Click **OK**.

➔ The image will be printed.

8.7 Saving images

1. Select the desired camera in the timeline.
2. Press the left mouse button and move the timeline cursor to the desired position.
   ➔ The image you want to save is displayed.
3. Click the icon **Save scene** in the toolbar.
   – OR –
   Select the menu sequence **File > Save scene** (see Fig. 25).
   ➔ The following dialog box opens.

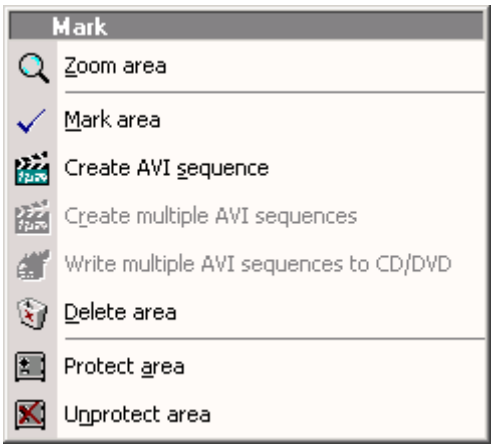


4. Select the directory in which to save the image.
5. Enter a **File name**.
6. In the **Save as type** drop-down list, select whether you want to save the image as a *.JPG or *.BMP file.
7. Click **Save**.
   ➔ The image is saved.

8.8 Selecting a period in the timeline

You can select a time period in the timeline to apply specific functions of the SISTORE MX NVS application software to the recordings of this period.

1. Press the right mouse button and drag a rectangle around the desired period in the timeline.
2. Release the right mouse button.
   ➔ The following context menu will open:



3. Select **Mark area** from the context menu.

– OR –

4. Press the left mouse button and move the timeline cursor to the desired starting point of the period.
5. Click on { .
   ➔ The starting point of the period has bee defined.
6. Press the left mouse button and move the timeline cursor to the desired end point of the period.
7. Click on } .
   ➔ The end point of the period has bee defined.
   ➔ The period has been selected.

Delete range marking

1. Click on − .
   ➔ The range marking has been deleted.

8.9 Generating film sequences

You can save selected recordings as film sequences in *.k26 format and reproduce them using the SISTORE Player. See Section 11.3.1 Playing video files.

Prerequisite:

- There are existing recordings.

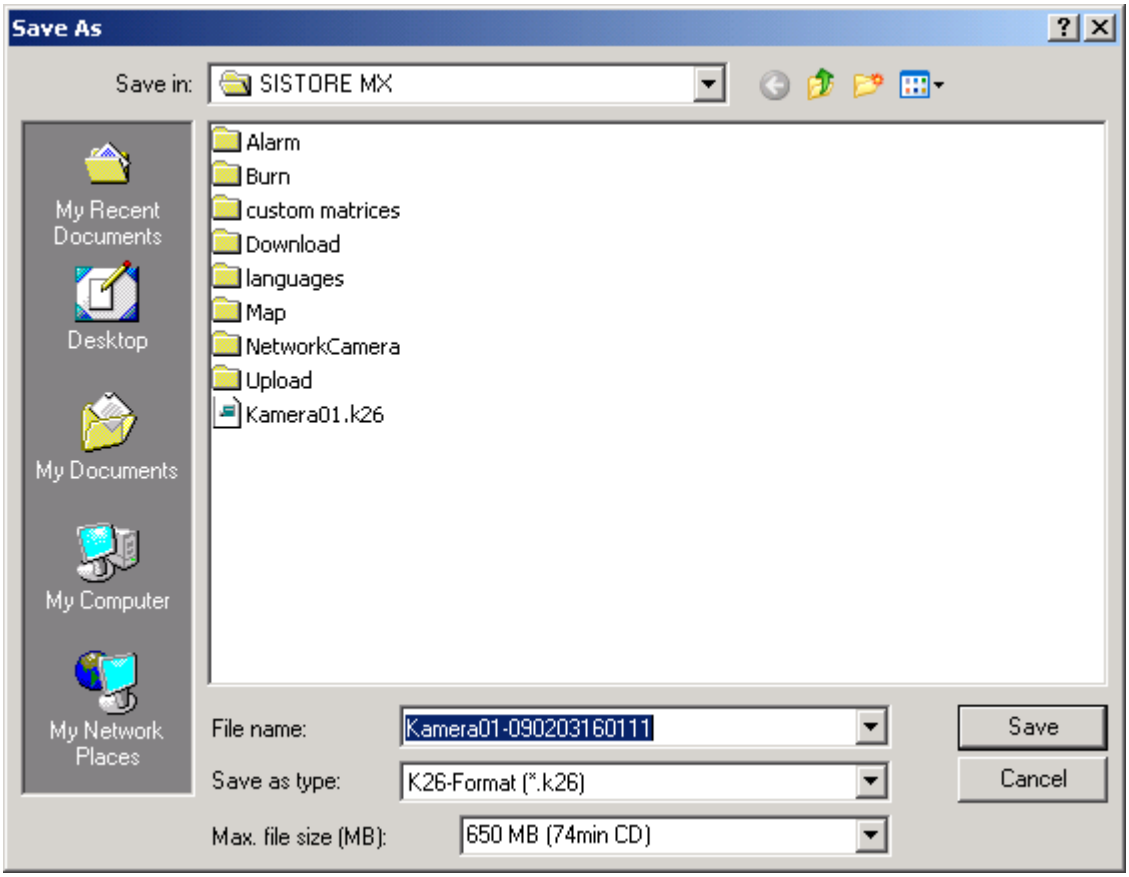
Generating individual film sequences

1. Mark the period in the timeline for which to generate a film sequence.
2. Click the icon **Create AVI sequence** in the toolbar.

   – OR –

   Select the menu sequence **File > Create AVI sequence** (see Fig. 25).

   ➔ The following dialog box opens.



3. Select the directory in which to save the film sequence.
4. Enter a file name.
5. Select the **Max. file size (MB)** from which the film sequence is to be split.
6. Click **Save**.

   ➔ The film sequence has been generated.

Depending on the size of the film sequence, the saving process may take some time.

Generating multiple film sequences

You can create film sequences of several tracks of the timeline simultaneously.

1. Mark the period in the timeline for which to generate a film sequence.
2. Click the icon **Create multiple AVIs** in the toolbar.

   – OR –

   Select the menu sequence **File > Create multiple AVI sequences** (see Fig. 25).

   ➔ The **Save as** dialog box will open.
3. Select the directory in which to save the film sequences.
4. Enter a basic file name.

The name of the respective camera is automatically added to the basic file name.

5. Select the **Max. file size (MB)** from which the film sequences are to be split.
6. Click **Save**.

   ➔ The film sequences have been generated.

8.10 Backup

A backup is normally made automatically at a predefined time. Further information on this can be found in the SISTORE MX NVS Configuration Manual.

You can however also start a backup manually.

Prerequisites:

- Further recordings have been saved since the last backup.
- You have the right "administration“. See Section 7.2.1 User rights.
- The option "Automatic backup“ has been configured and activated in the configuration mode. Further information on this can be found in the SISTORE MX NVS Configuration Manual.

Depending on the scope of the backup and the utilization of SISTORE MX NVS server, the backup may take quite while.

1. Select the menu sequence **File > Start backup now** (see Fig. 25).

   ➔ The backup process is started.

Cancel backup

Prerequisite:

- A backup is in progress.

1. Select the menu sequence **File > Cancel backup**.

   ➔ The backup process is cancelled.

8.11 Searching for changes in videos

You can search for frame changes in recorded sequences using the intelligent search function.

Prerequisites:

- There are existing recordings.
- The desired camera has been selected (multi-channel playback) or is being displayed (single-channel playback).
  See Section 8.1.1 Single-channel or multi-channel playback.
- Playback has been stopped.
  See Section 8.4 Playback control.

Intelligent search options

1. Click the icon **Show intelligent search options** in the toolbar.

– OR –

Select the menu sequence **View > Intelligent search** (see Fig. 19).

➔ The intelligent search options will be shown / hidden.

Fig. 26 Intelligent search options – Playback mode

You can draw a rectangular or a polygon-shaped search mask to limit the search to a specific image area. If no search mask is drawn, the whole recorded image will be searched for frame changes.

Drawing a rectangular search mask

1. Select the option "Rectangle" in the **Search mask** group field.
2. Click on the upper left section of the recorded image above the **Search mask** group field to mark the desired corner of the search mask.
3. Drag the mouse until the rectangle reaches the desired shape and size.
4. Click on the recorded image once more.

➔ The rectangular search mask is highlighted in red.

Drawing a polygonal search mask

1. Select the option "Polygon" in the **Search mask** group field.
2. Click on the recorded image above the **Search mask** group field to mark the first desired corner of the search mask.
3. Click on any desired number of points in the recorded image to mark the corners of the mask.
4. Double-click on the corner of the search mask which was selected last.

➔ The polygonal search mask is highlighted in red.

Remove search mask

1. Click the icon in the **Search mask** group field.

➔ The search mask is deleted.

Search for frame changes

1. Under **Sensitivity**, select either **normal** or **high**.
2. Under **Stepwidth**, select either **normal** or **fine**.

The step width stipulates whether each recorded image is to be searched for changes (fine) or whether individual images will be skipped (normal). A **normal** search will be faster than a **fine** search. Minor changes may however be missed in a normal search. A search using fine step width is more accurate but it may take quite a while.

3. Click on .

➔ The search for frame changes is started.

If a frame change is found, the timeline cursor is moved to the corresponding position and the image is displayed.

If no frame change is found, the message **No change in image detected** is displayed below the timeline control section.

8.12 Cash box search

Prerequisite:

- There are existing recordings.

Show/hide cash box search options

1. Click the icon **Display cash box search controls** in the toolbar.

   – OR –

   Select the menu sequence **View > Cash box search** (see Fig. 19).

➔ The cash box search options will be shown/hidden at the bottom of the screen.

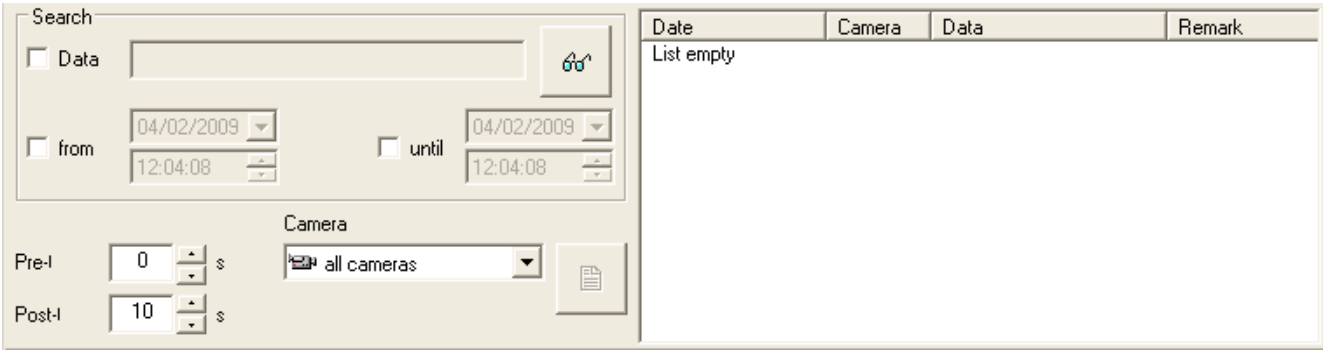


Fig. 27 Cash box search options – Playback mode

Using SISTORE RemoteView it is possible to search for cash box data in several servers. The "Address“ list box is provided for this purpose.

Limited cash box search

You can limit your search for cash box data by entering a character string or the beginning or end of the search.

1. To search for a character string within the cash box data, mark the checkbox **Data** in the **Search** group field and enter the character string in the text field.

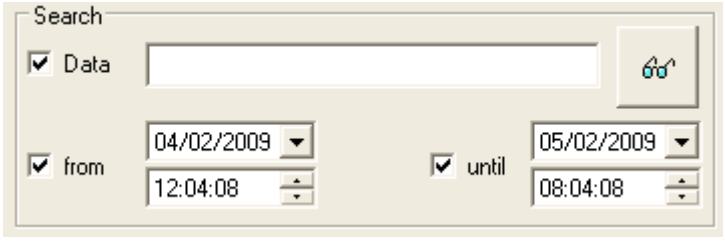


Fig. 28 Cash box search – Options for limited search

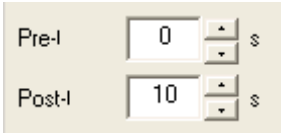
- The search for character strings is case-insensitive.
- If you enter several words, separated by comma, the system will only search for entries that contain all the words entered.

2. To limit the search to entries within a specific time period, mark the checkboxes **from** and **until** in the **Search** group field and select a date and time, respectively (see Fig. 28).

3. To limit the search to specific cash boxes, select the camera of the desired cash box in the **Camera** drop-down list.

Starting cash box search

1. Select the desired pre-event and post-event times for the entries.



2. Click on .

➔ The cash box search is started.

➔ All the entries that are found are displayed in the hit list (time, camera and text of the entry).

8.13 Delete recordings

You can delete either all recordings, the recordings made during a time period selected in the timeline, or the recordings made before a specified time.

Prerequisite:

- There are existing recordings.

Delete all recorded data

Prerequisite:

- Recording has been stopped.
  See Section 7.4 Start/stop recording.

1. Click the icon **Delete all recorded data** in the toolbar.
   – OR –
   Select the menu sequence **Database > Delete all recorded data**.

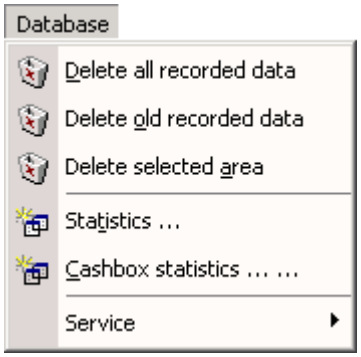


Fig. 29 Menu "Database“ – Playback mode

➔ A confirmation dialog will be opened.

2. Click **Yes**.

➔ All recordings are deleted.

Delete recorded data of a selected period

1. Select the time period for which you want to delete the recordings in the timeline. See Section 8.8 Selecting a period in the timeline.
2. Click the icon **Delete recordings of the marked are** in the toolbar.
   – OR –
   Select the menu sequence **Database > Delete selected area** (see Fig. 29).

➔ A confirmation dialog will be opened.

3. Click **Yes**.

➔ The recordings made during the selected time period are deleted.

Delete recordings made before a specified time

1. Press the left mouse button and move the timeline cursor to the desired position.
2. Click on the icon **Delete all older entries** in the toolbar.

   – OR –

   Select the menu sequence **Database > Delete old recorded data** (see Fig. 29).

   ➔ A confirmation dialog will be opened.
3. Click **Yes**.

   ➔ The recordings made before the specified time are deleted.

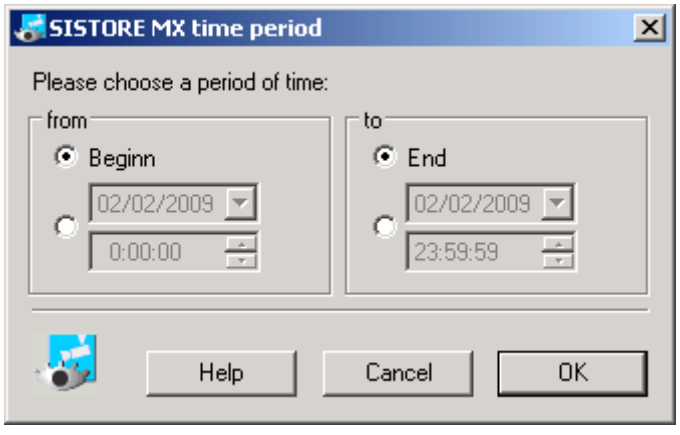
8.14 Display database statistics

The database statistics comprise the following information:

- The period for which recordings are stored in the database
- The number of recorded images
- The number of existing *.k26 files
- The approximate space required for the existing files on the data medium
- The number of alarms detected in the defined period
- The number of motions detected in the defined period
- The average number of images recorded per day
- The average amount of hard-disk space per day
- The average number of alarms detected per day
- The average number of motions detected per day
- The overall capacity of the data medium (calculated total recording time)
- Free storage space on the data medium (calculated remaining recording time)

1. Select the menu sequence **Database > Statistics** (see Fig. 29).

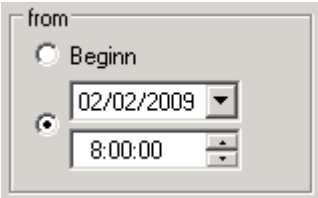
   ➔ The following dialog box opens.



2. Select the option **Beginning** under **from**.

   – OR –

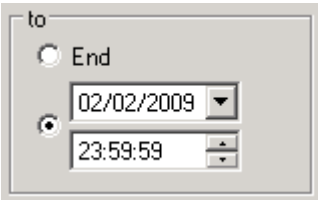
   Select the desired starting date and time in the drop-down boxes under **from**.



3. Select the option **End** under **to**.

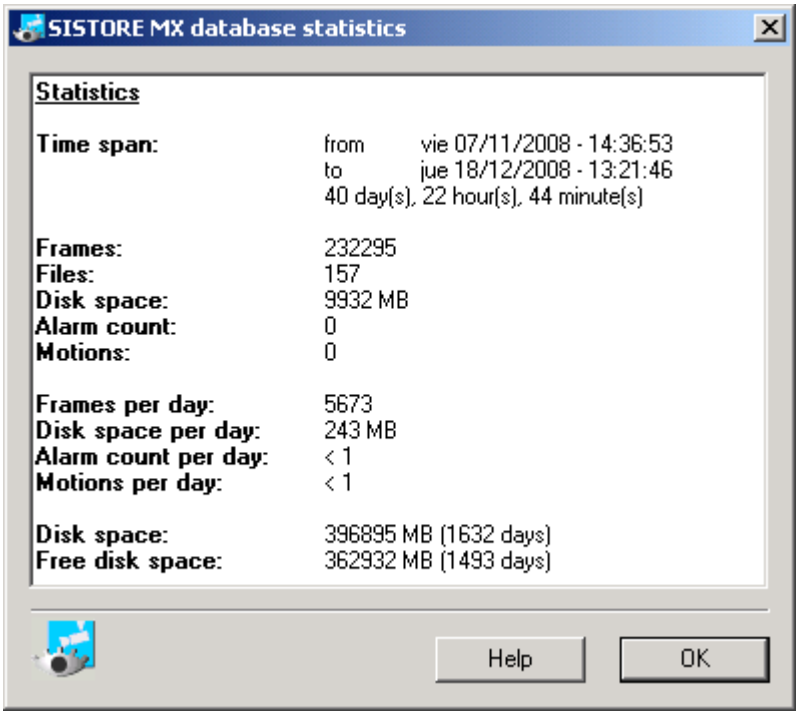
– OR –

Select the desired end date and time in the drop-down boxes under **to**.



4. Click **OK**.

➔ The following dialog box opens.



8.15 Display cash box statistics

Using the cashbox statistics function, you can check how many recordings were made during a particular period of time.

1. Select the menu sequence **Database > Cashbox statistics...** (see Fig. 29).

➔ The cashbox statistics will be displayed.

8.16 Database management

Prerequisite:

- You have the right "administration“.
  See Section 7.2.1 User rights.

8.16.1 Create new database

Using this function you can delete all database entries and create a new database on the basis of the stored recordings.

When creating a new database there is always a possibility that data may be lost. Creating a new database may take quite a while.

1. Select the menu sequence **Database > Service > Re-scan and create new database**.

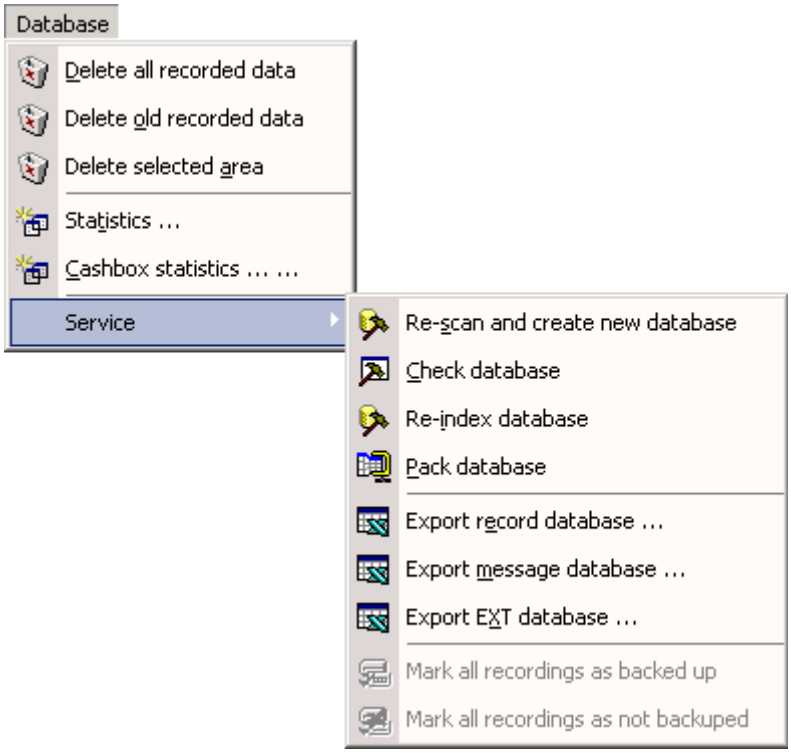


Fig. 30 Menu "Database (Service)“ – Playback mode

➔ A confirmation dialog will be opened.

2. Click **Yes**.

➔ A confirmation dialog will be opened.

3. Click **Yes**.

➔ A status bar indicating the progress of the database creation will be displayed.

➔ A new database has been created.

8.16.2 Check database

Using this function you can check whether the existing database entries actually contain recordings. If they do not, the database entries will be deleted automatically.

1. Select the menu sequence **Database > Service > Check database** (see Fig. 30).
   ➔ A confirmation dialog will be opened.
2. Click **Yes**.
   ➔ A status bar indicating the progress of the database checking will be displayed.
   ➔ The database has been checked.

8.16.3 Re-index database

Using this function, you can re-index the database. This makes sense if the recordings in your database were overwritten several times. When a database has been re-indexed, the search speed is usually increased.

1. Select the menu sequence **Database > Service > Re-index database** (see Fig. 30).
   ➔ A confirmation dialog will be opened.
2. Click **Yes**.
   ➔ A status bar indicating the progress of the re-indexing will be displayed.
   ➔ The database has been re-indexed.

8.16.4 Pack database

Using this function you can compress the database to save space on your hard disk.

1. Select the menu sequence **Database > Service > Pack database** (see Fig. 30).
   ➔ The database has been compressed.

8.16.5 Export databases

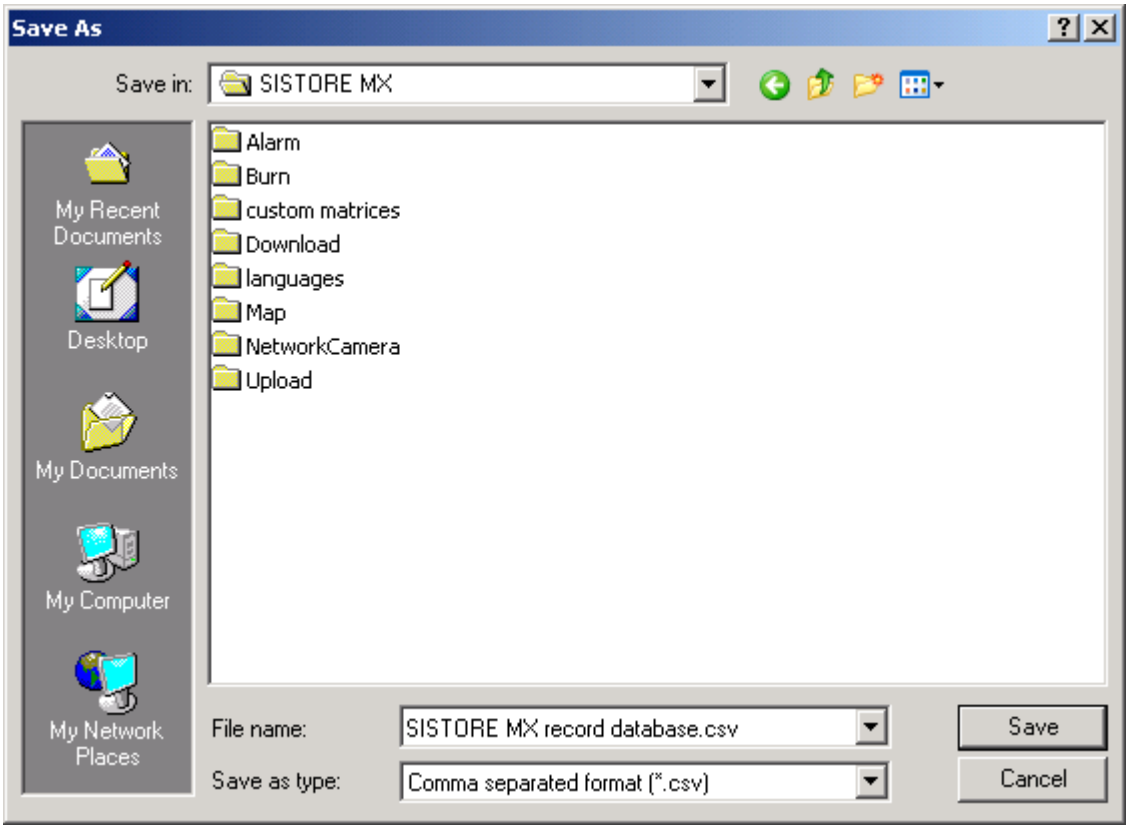
Using this function you can export various databases.

Export record database	Exports the database entries containing references to recorded sequences
Export message database	Exports log entries
Export EXT database	Exports an external database (e.g. cash dispenser, banking or cash box data)

Tab. 4 Database export functions in the Database > Service menu

1. Select **Service** in the **Database** menu and then the appropriate submenu item **Export…** (see Fig. 30).

   ➔ The following dialog box opens.



2. Select the directory into which you would like to export the database.
3. Click **OK**.

   ➔ The database is exported.

8.16.6 Mark all recordings as backed up or as not backed up

Prerequisite:

- An incremental backup has been configured.

Mark all recordings as backed up

All recordings in the database can be marked as backed up. This means that the next time an **incremental** backup is made, only those recordings will be backed up which have been saved since the last backup and which meet the backup criteria.

A complete backup means that all the recordings in the database will be backed up.
Further information on this can be found in the SISTORE MX NVS Configuration Manual.

1. Select the menu sequence **Database > Service > Mark all recordings as backed up**.
   ➔ All the recordings in the database are marked as backed up.

Mark all recordings as not backed up

All recordings in the database can be marked as not backed up. This means that the next time an **incremental** backup is made, all the recordings that meet the backup criteria will be backed up.

1. Select the menu sequence **Database > Service > Mark all recordings as not backuped**.
   ➔ All the recordings in the database are marked as not backed up.

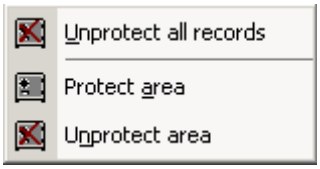
8.17 Write-protecting recordings

You can provide recordings with a write protection to prevent them from being automatically deleted or overwritten.

Prerequisite:

- The desired time period has been selected in the timeline.
  See Section 8.8 Selecting a period in the timeline.

1. Select the menu sequence **Write protection > Protect area**.



➔ The recordings of the selected period are protected.

Unprotect area

1. Select the menu sequence **Write protection > Unprotect area**.

➔ The recordings of the selected period are no longer protected against overwriting.

Unprotect all records

1. Select the menu sequence **Write protection > Unprotect all records**.

➔ The write protection for all recordings is removed.

8.18 Exit playback mode

You can exit the playback mode and return to display mode.

1. Click the icon **Exit playback mode** in the toolbar

– OR –

Select the menu sequence **File > Exit playback mode** (see Fig. 25).

➔ You have exited playback mode.

➔ You will be in display mode.
See Section 5.1 Display mode and Section 7 Display mode functions.

9 Control of SISTORE MX NVS using external devices

9.1 Control using CKA4810/CKA4820 control panels

Prerequisites:

- The control panel is connected to the client PC via the COM1/COM2 interface. Further information on this can be found in the SISTORE MX NVS Installation Manual.
- The COM1A port on the control panel is configured as an RS232 interface. Further information on this can be found in the SISTORE MX NVS Installation Manual.
- The control panel is connected to the power source via a power supply unit.
- The CKA driver is installed on the client PC. Further information on this can be found in the SISTORE MX NVS Installation Manual.

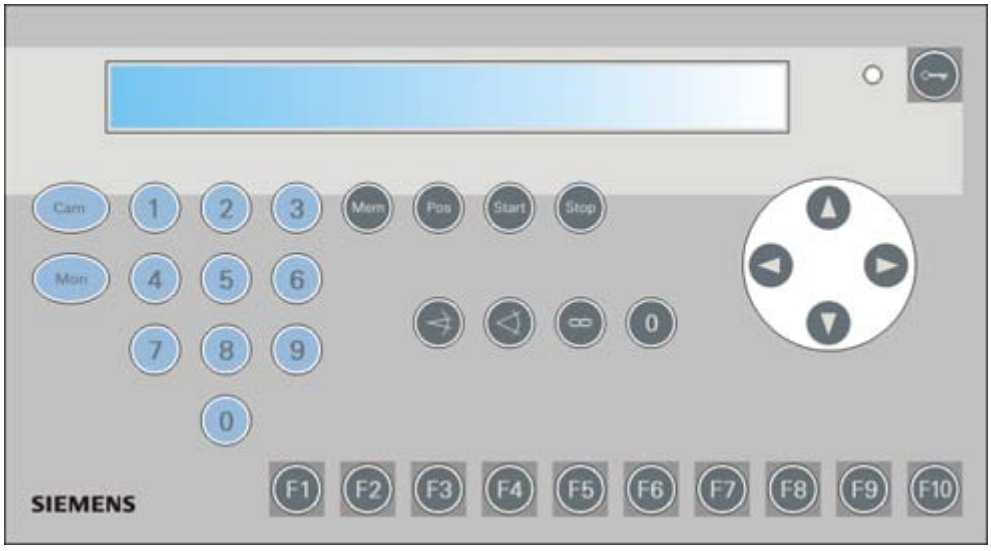


Fig. 31 Control panels CKA4810 / CKA4820 – Keys

Key / key combination	Function in the display mode	Function in playback mode
1 … 9	Individual PTZ cameras	-
1 … 9 + Cam	Selection of a PTZ camera for the enlarged view	-
1 … 9 + Cam + 1 … 9 + Mon	Switch selected PTZ camera to a selected external monitor	-
1 … 9 + Pos	Move camera to selected PTZ position	-
Start	Start automatic position cycle	-
Stop	Stop automatic position cycle	-
◁	Zoom in	-
▷	Zoom out	-
0	Focus near	-
∞	Focus far	-
F1	Switching between display mode and playback mode	

Key / key combination	Function in the display mode	Function in playback mode
F2 + 0	Show more cameras	4 camera windows
F2 + ◁	Show fewer cameras	1 camera window
F2 + F10	-	Focus on playback window 1 … 9 + Cam: Activate recorded image of the selected camera
F3	Next camera group	-
F3 + Start	Start automatic scan (display groups)	-
F3 + Stop	Stop automatic scan	-
F3 + F10	-	Focus on timeline The timeline cursor can be moved using the joystick (left, right)
F3 + 0	-	Extend time range in the timeline
F3 + ◁	-	Reduce time range in the timeline
F4	-	Triplex mode on/off
F4 + 1 … 4 + Start	Start automatic picture sequence on video output	-
F4 + 1 … 4 + Stop	Stop automatic picture sequence on video output	-
F4 + F10	-	Next camera group
F4 + Start	-	Start automatic scan (display groups)
F4 + Stop	-	Stop automatic scan
F5	Show logbook	Show logbook
F5 + F10	-	Focus on logbook The joystick (up, down) can be used to navigate the logbook. When an alarm is selected (line with alarm entry has a blue background) and the F10 key is pressed, the timeline cursor jumps to the corresponding position.
F5 + 0	-	Show wide logbook
F5 + ◁	-	Show small logbook
F6 + Start	Start record	Play recording (at normal speed)
F6 + Stop	Stop record	Stop recording (at normal speed)
F6 + Start + 0	-	Play recording forward When pressed repeatedly: Increases playback speed
F6 + Start + ◁	-	Play recording backward When pressed repeatedly: Reduces playback speed
F6 + 8	-	Show next image
F6 + ◁	-	Show previous image
F7	Event view window on/off	Update timeline
F8	Acknowledge alarm	-
F9	Audio playback on/off	-

Key / key combination	Function in the display mode	Function in playback mode
F9 + 0	-	Go to the end of the recording
F9 + ◁	-	Go to the beginning of the recording
F10	Show/hide map	ENTER

Tab. 5 Control panels CKA4810 / CKA4820 – Key functions

9.2 Control using the Multimedia Control Panel

The Multimedia Control Panel (Shuttle PRO2, see Section 3 Details for ordering) is not a product of Siemens Building Technologies Fire & Security Products GmbH & Co. oHG. It can be ordered from Contour Design Ltd. (www.contourdesign.com) (product name: Shuttle PRO2).

The Multimedia Control Panel has been integrated and tested with SISTORE MX NVS. Siemens Building Technologies Fire & Security Products GmbH & Co. oHG can however not guarantee fault-free operation of the Multimedia Control Panels and does not provide any support. In case of problems with the product, please contact the manufacturer.

The Multimedia Control Panel can be used to:

- Control functions of the SISTORE MX NVS application software in display mode and in playback mode
- Control functions of SISTORE RemoteView
- Control SISTORE Player functions

In order to use the Multimedia Control Panel in the SISTORE MX NVS application software, in SISTORE RemoteView or in the SISTORE Player, it must be installed and configured first. Further information on this can be found in the SISTORE MX NVS Configuration Manual.

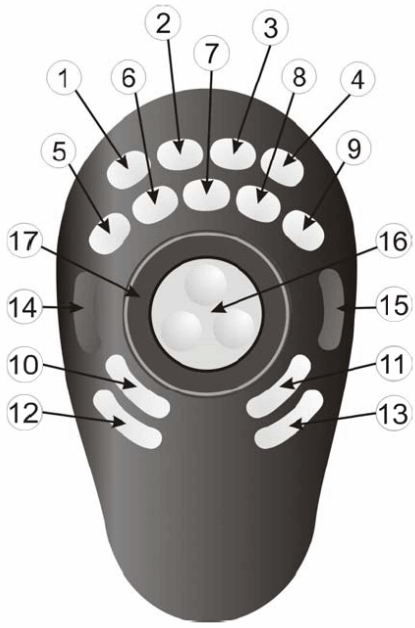


Fig. 32 Multimedia Control Panel – Keys

The keys 1 to 17 are assigned the following functions for use in the SISTORE MX NVS application software, in SISTORE RemoteView and the SISTORE Player.

- PTZ stands for the pan/tilt/zoom control of cameras. This function is only available for cameras featuring PTZ control.
- The functions of the display mode and the playback mode are also available in SISTORE RemoteView.

Key	Function in the display mode	Function in playback mode	Function in the SISTORE Player
1	Select next PTZ camera	Move timeline cursor to beginning of timeline	Move timeline slide control to beginning of timeline
2	Automatic picture cycle of PTZ cameras	Zoom timeline in	-
3	Display next group	Zoom timeline out	-
4	Change number of camera windows shown	Move timeline cursor to end of timeline	Move timeline slide control to end of timeline
5	Move camera to PTZ position 1	Play recordings backward	Play video file backward
6	Move camera to PTZ position 2	One frame back	One frame back
7	Move camera to PTZ position 3	Stop playback	Stop playback
8	Move camera to PTZ position 4	One frame forward	One frame forward
9	Move camera to PTZ position 5	Play recordings forward	Play video file forward
10	Tilt PTZ camera up	Reduce volume of audio file	Reduce volume of audio file
11	Start/exit full screen mode	Increase volume of audio file	Increase volume of audio file
12	Tilt PTZ camera down	Triplex mode on/off	Start/exit full screen mode
13	Switch to playback mode	Switch to display mode	Close SISTORE Player
14	Pan PTZ camera to the left	Reduce playback speed	Reduce playback speed
15	Pan PTZ camera to the right	Increase playback speed	Increase playback speed
16	Increase or reduce pan/tilt speed	Next or previous single frame	Next or previous single frame
17	Zoom in / zoom out	Fast forward/rewind	Fast forward/rewind

Tab. 6 Key assignment - Multimedia Control Panel

10 SISTORE RemoteView (client)

When there is an active connection to the SISTORE MX NVS server, the operation of SISTORE RemoteView is largely identical to the operation of the SISTORE MX NVS application software. This chapter therefore describes only functions that are exclusive to SISTORE RemoteView.

SISTORE RemoteView is an application software that enables remote access to SISTORE MX NVS via LAN, RAS or ISDN. You can thus view the current live images or play recorded sequences regardless of your location.

SISTORE MX NVS which you are accessing functions as a server, with SISTORE RemoteView as the client.

Using SISTORE RemoteView you can access up to 10 SISTORE MX NVS servers at the same time. This enables you to view and evaluate video images independently of your location.

10.1 Starting/terminating SISTORE RemoteView

Starting SISTORE RemoteView

1. Double click the icon **SISTORE RemoteView** on your desktop.
   - ➔ The program window opens.
   - ➔ SISTORE RemoteView has been started.

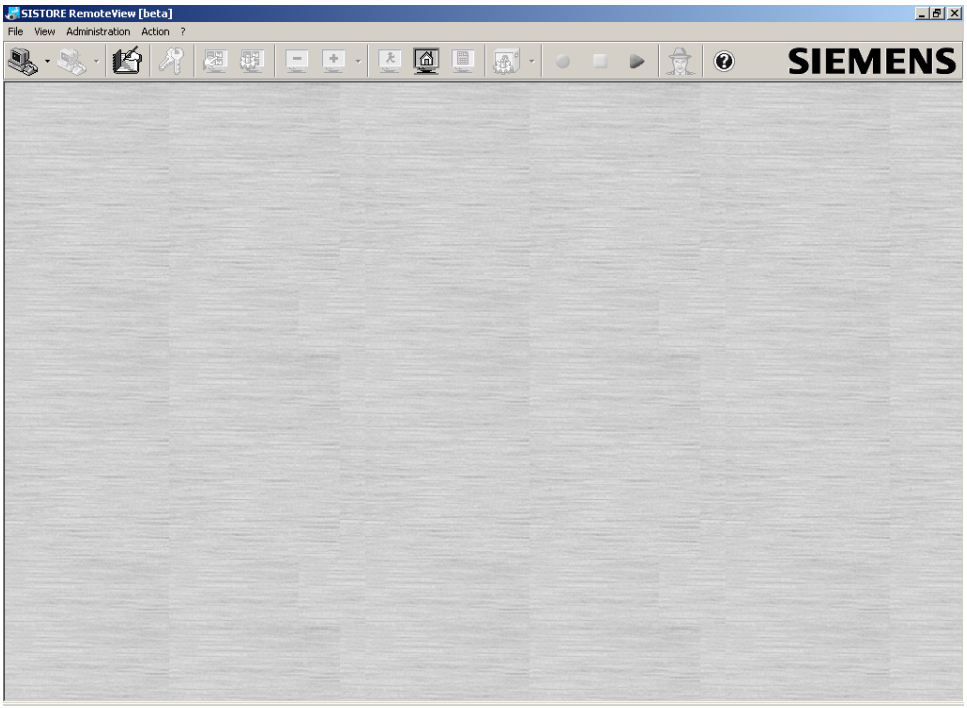


Fig. 33 SISTORE RemoteView – without an active connection

Terminating SISTORE RemoteView

Prerequisite:

- A user is logged on. See Section 10.2 Logon/logoff as user.

1. Select the menu sequence **File > Exit**.
   ➔ A confirmation dialog will be opened.
2. Click **Yes**.
   ➔ SISTORE RemoteView is terminated.

10.2 Logon/logoff as user

Logon as user

1. Click the button.
   – OR –
   Select the menu sequence **File > Login**.
   ➔ The following dialog box opens.

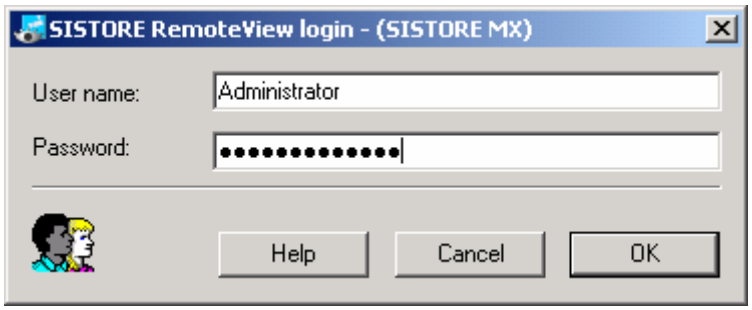


Fig. 34 Login – SISTORE RemoteView

2. Enter your **user name** and **password** in the appropriate text fields.

Your user name and password will be created for you by your administrator. The entry of user name and password is case-sensitive.

3. Click **OK**.
   ➔ You are logged on as a user.

Logoff as user

1. Click the button.
   – OR –
   Select the menu sequence **File > Logout**.
   ➔ A confirmation dialog will be opened.
2. Click **Yes**.
   ➔ You will be logged off as a user.
   ➔ All current connections will be terminated.

After a logout you will only be able to see alarm pictures on the SISTORE RemoteView. It will not be possible to perform any functions until a user logs in again.

Automatic logout

SISTORE RemoteView has an auto logout function. This function is activated by default. A logout will be performed if there is no connection to a server and there is no user activity for a specified period (set to 5 minutes by default).

10.3 Change user

Prerequisite:

- There is a connection to at least one SISTORE MX NVS server.
  See Section 10.4 Connecting to a SISTORE MX NVS server.

1. Select the menu sequence **File > Change user**.

➔ The **SISTORE RemoteView login** dialog box opens (see Fig. 34).

2. Enter your **user name** and **password** in the appropriate text fields.

Your user name and password will be created for you by your administrator. The entry of user name and password is case-sensitive.

3. Click **OK**.
– OR –
Press the **Enter** key.

➔ The user has been changed.

10.4 Connecting to a SISTORE MX NVS server

You can set up connections to up to 10 different SISTORE MX NVS servers at various locations to view their live images or recorded sequences. It is possible to transmit live and recorded audio for LAN cameras. The remote configuration of a SISTORE MX NVS server is also possible.

Prerequisites:

- There are entries in the address book. See Section 10.7 Address book.
- You have the right "remote access". See Section 7.2.1 User rights.
- The option "Allow network access" has been activated in the configuration mode. Further information on this can be found in the SISTORE MX NVS Configuration Manual.

Connection set-up via the address book

1. Click the icon **Connect remote** in the toolbar.

   – OR –

   Select the menu sequence **File > Setup connection…**

   ➔ The following dialog box opens.

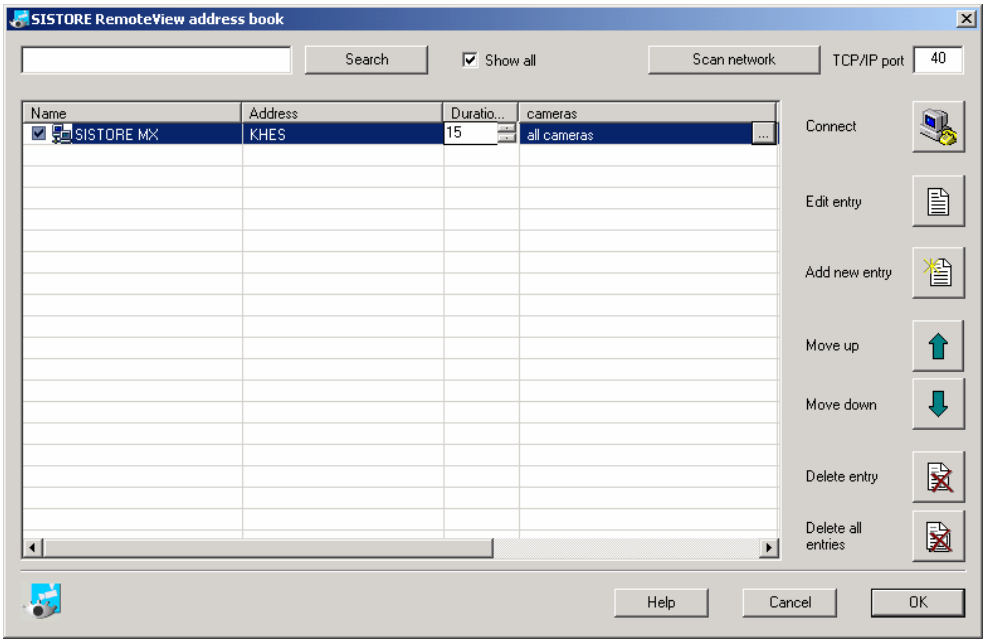


Fig. 35 Address book – SISTORE RemoteView

2. Select the desired address book entry from the list.
3. Click the icon **Connect**.

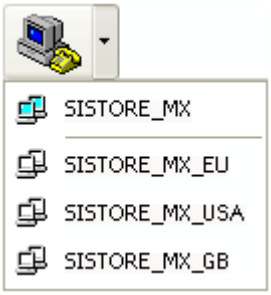
If the user name and password for SISTORE MX NVS und SISTORE RemoteView are identical, the connection will be set up automatically.

If this is not the case, the login dialog will open and the user will have to log in manually. See Section 10.2 Logon/logoff as user.

➔ The connection will be established.

Connection set-up via the toolbar

1. Click the arrow next to the icon **Connect remote** in the toolbar.
   ➔ A list showing the connections that were set up last as well as the most frequent connections (below the dotted line) is displayed.



2. Click on the desired connection.
   ➔ The connection will be established.

10.4.1 Connection set-up via the map

Prerequisites:

- There are entries in the address book.
  See Section 10.7 Address book.
- You have the right "remote access“.
  See Section 7.2.1 User rights.
- The option "Allow network access“ has been activated in the configuration mode. Further information on this can be found in the SISTORE MX NVS Configuration Manual.
- A maps has been imported and configured in the SISTORE RemoteView configuration dialog. Further information on this can be found in the SISTORE MX NVS Configuration Manual.

1. Click the icon **Show map** in the toolbar.
   – OR –
   Select the menu sequence **View > Map**.

➔ The map is opened.

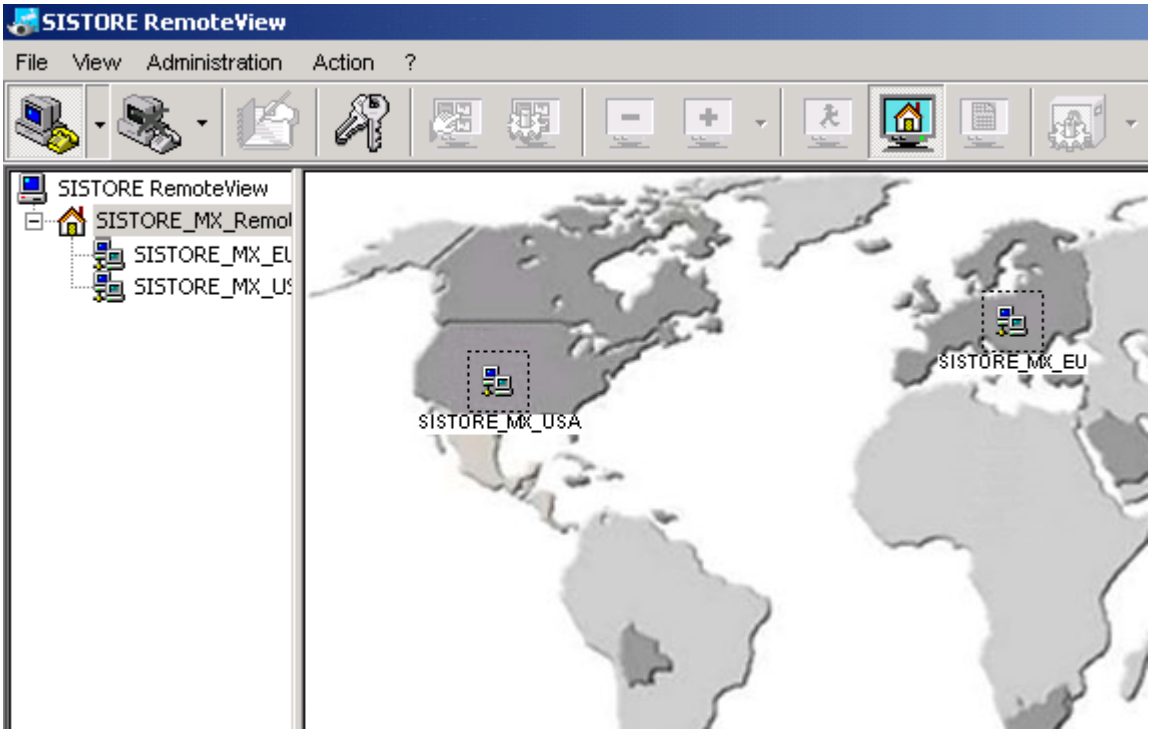


Fig. 36 Map – SISTORE RemoteView

2. Click on a server symbol in the map.

If the user name and password for SISTORE MX NVS und SISTORE RemoteView are identical, the connection will be set up automatically.

If this is not the case, the login dialog will open and the user will have to log in manually. See Section 10.2 Logon/logoff as user.

➔ The connection will be established.

10.4.2 Terminate connections

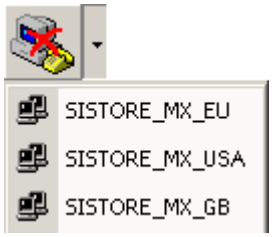
You can terminate either individual connections or all connections at a time.

Terminate individual connections

Prerequisite:

- There is a connection to at least one SISTORE MX NVS server.

1. Click the arrow next to the icon **Disconnect remote** in the toolbar.
   ➔ A drop-down menu showing all active connections opens.



2. Select the connection you want to terminate.
   ➔ A confirmation dialog will be opened.
3. Click **Yes**.
   ➔ The connection has been terminated.

Terminate all connections.

Prerequisite:

- There is a connection to at least one SISTORE MX NVS server.

1. Click the icon **Disconnect remote** in the toolbar.
   ➔ A confirmation dialog will be opened.
2. Click **Yes**.
   ➔ All connections are terminated.

Automatic termination of all connections

SISTORE RemoteView includes a function enabling automatic termination of the connections. This function is activated by default. All connections will be terminated if there is no user activity for a specified period (set to 5 minutes by default.

10.5 Restarting a SISTORE MX NVS server that is connected to a RemoteView client

A SISTORE MX NVS server that is connected to a RemoteView client can be restarted by remote control.

The following conditions have to be met on the part of the SISTORE MX NVS server in order that it can be accessed again after the restart:

- Automatic Windows login
- The SISTORE MX NVS application software is in the auto-start file (condition on delivery; this can be defined during installation)

Prerequisites:

- There is a connection to at least one SISTORE MX NVS server. See Section 10.4 Connecting to a SISTORE MX NVS server.
- You have the right "administration“. See Section 7.2.1 User rights.

1. Select the menu sequence **Action > Restart system**.

➔ A confirmation dialog will be opened.

2. Click **Yes**.

➔ An information dialog will be opened.

3. Click **OK**.

➔ A confirmation dialog will be opened.

4. Click on **No**.

➔ The connected SISTORE MX NVS server is restarted.

- The restart may take several minutes. It is not possible to set up a connection to the SISTORE MX NVS server while it is rebooting.

10.6 Local revision of existing databases

Using RemoteView, you may also revise databases without a direct connection to a SISTORE MX NVS server.

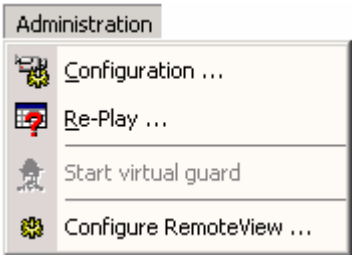
Prerequisite:

- A record database as well as a message database are available locally. See Section 8.16 Database management.

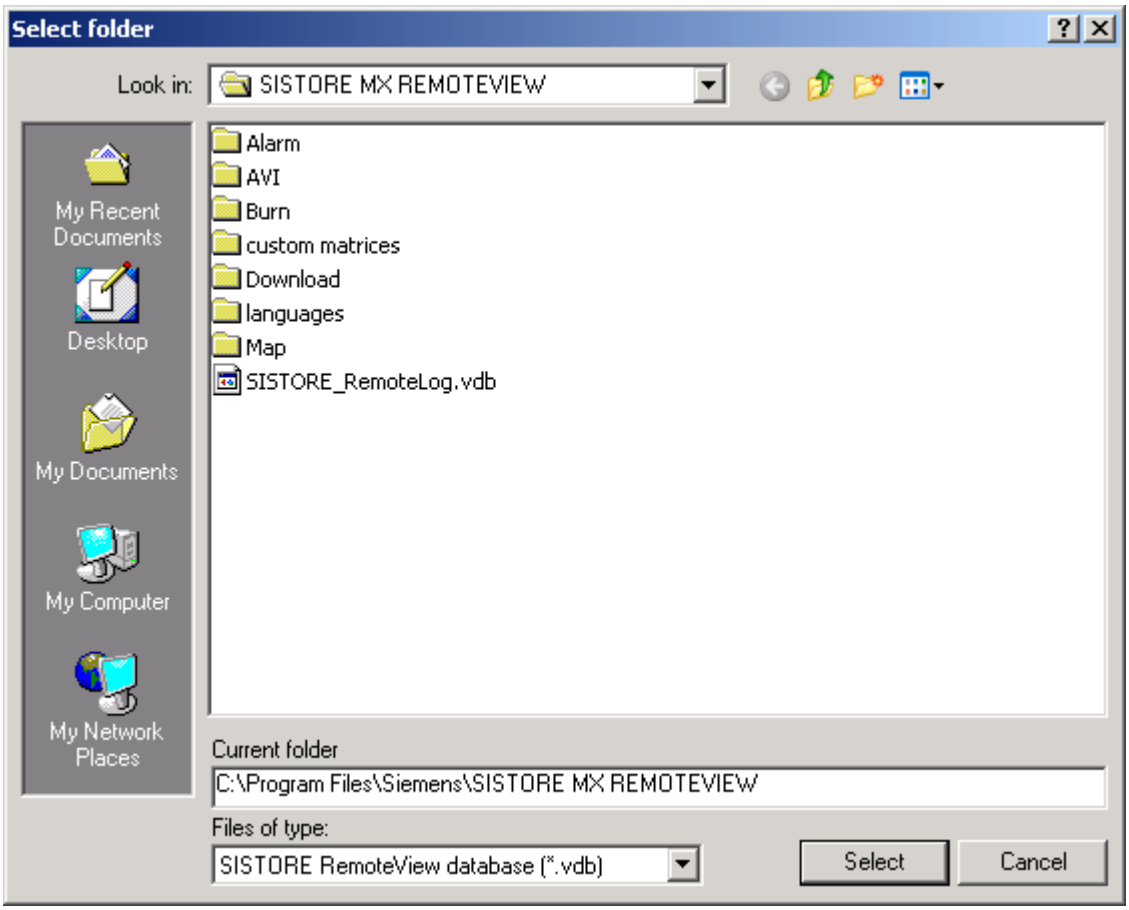
1. Click the icon **Playback** in the toolbar.

   – OR –

   Select the menu sequence **Administration > Playback…**



➔ The following dialog box opens.



2. Select the directory containing the database.
3. Click **Select**.

➔ The database is loaded.

➔ You are in the playback mode and can use most of the functions. See Section 8 Functions in playback mode.

10.7 Address book

You can enter connection data of SISTORE MX NVS servers in the address book and use this data to set up connections to these servers.

10.7.1 Opening the address book

1. Click the icon **Connect remote** in the toolbar.

   – OR –

   Select the menu sequence **File > Setup connection…**

   ➔ The following dialog box opens.

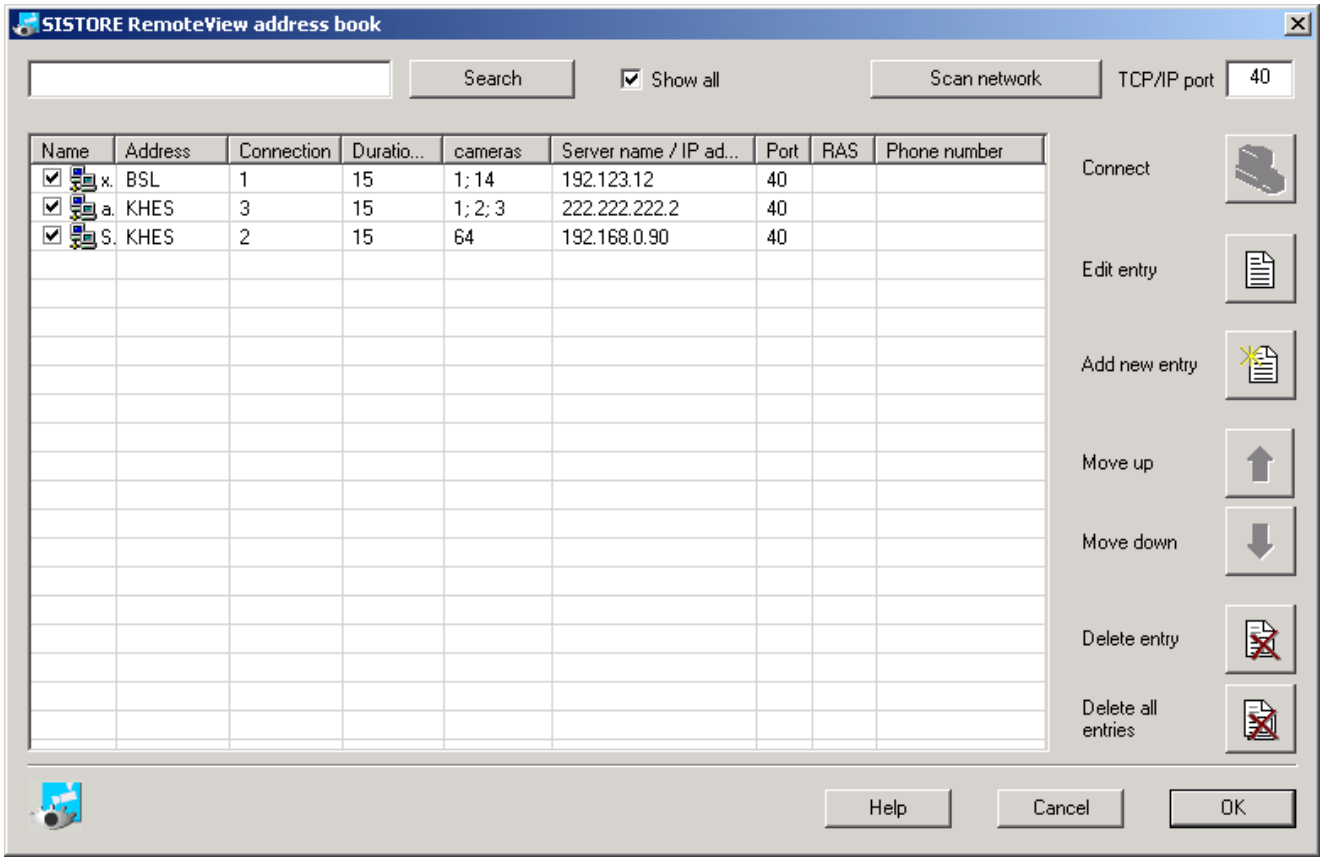


Fig. 37 Address book – SISTORE RemoteView

1. To display all the details of an address book entry, mark the checkbox **Show all**.

➔ The additional details of the **Connection**, **Duration (s)**, **Cameras**, **Server name** / **IP address**, **Port**, **RAS**, and **Phone number** are displayed.

10.7.2 Adding an entry to the address book

Prerequisite:

- The address book is opened.

1. In the **SISTORE RemoteView address book** dialog box, click on the icon **Add new entry**.

   ➔ The following dialog box opens.

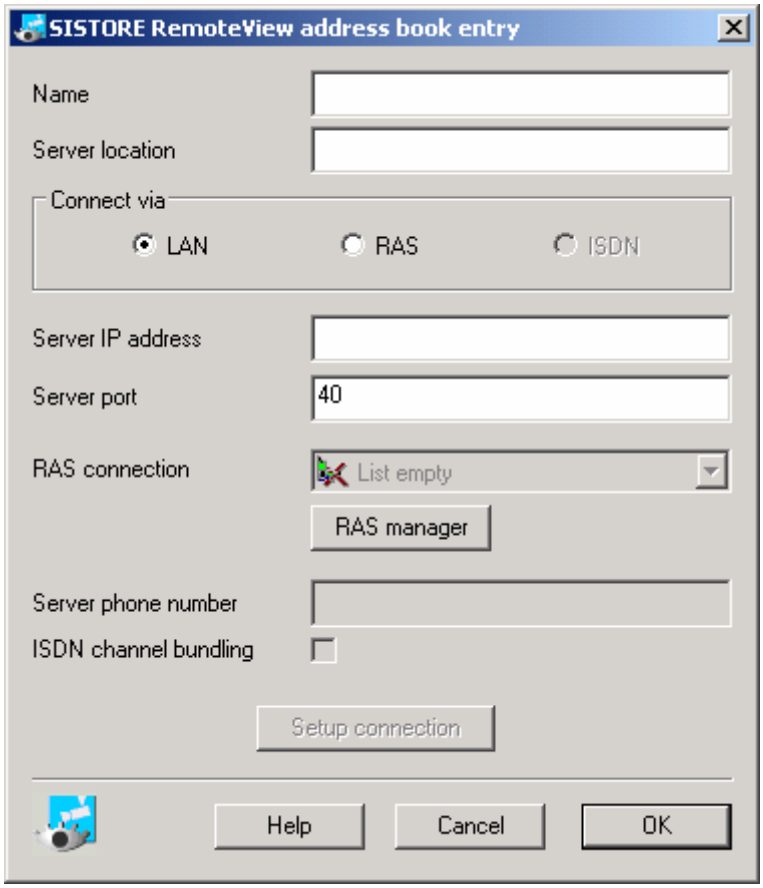


Fig. 38 Address book entry – SISTORE RemoteView

2. Enter a **Name**.
3. Enter a **Server location** (optional).
4. In the **Connect via** group field select either **LAN**, **RAS** or **ISDN**.

The appropriate conditions must be met for each connection type.

5. Enter the **Server IP address**.

It is possible to make several address book entries for the same IP address. This permits cameras to be combined in groups and their pictures to be displayed over different connections. These connections can be used for instance for the virtual guard. See Section 10.8 Virtual guard.

6. Enter the **Server port**.
7. If you selected the option **Connect via RAS** in step 4 above, select the desired **RAS connection** in the list box.

– OR –

If you selected the option **Connect via ISDN** in step 4 above, enter the **Server phone number** and activate or deactivate the checkbox **ISDN channel bundling**.

Only ciphers and the symbols ( ) und – can be entered into the text field **Server phone number**.

8. Click **OK**.
   ➔ The entry has been added to the address book.

10.7.3 Selecting a camera for an address book entry

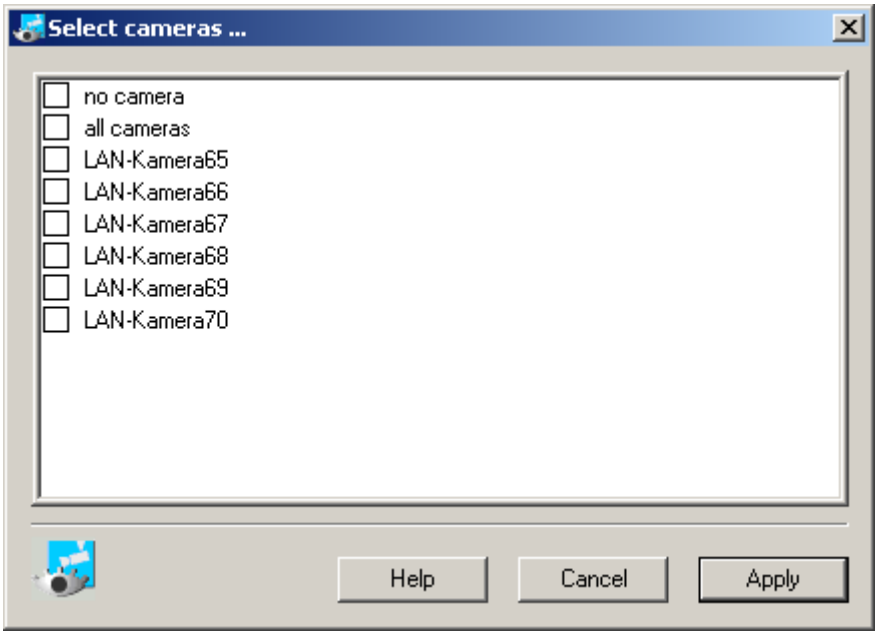
You can select the cameras whose live images are to be displayed after a connection has been set up via an address book entry.

Prerequisites:

- The address book is opened.
- There are entries in the address book.
- The checkbox **Show all** has been marked in the address book.

1. In the **SISTORE RemoteView address book** dialog box, mark the address book entry for which to select cameras.
2. Click the icon [...] in the **Cameras** column.
   ➔ A connection to the selected SISTORE MX NVS server will be set up in the background.
   ➔ The following dialog box opens.

In the **Select cameras…** dialog box, either the names of the available cameras or only the camera numbers will be displayed, depending on whether it was possible to set up a connection to the selected SISTORE MX NVS server or not.



3. Select the desired cameras by marking the corresponding checkboxes.
4. Click **Apply**.
   ➔ The cameras have been selected.

10.7.4 Editing address book entries

Prerequisite:

- The address book is opened.
- There are entries in the address book.

1. In the **SISTORE RemoteView address book** dialog box, select the address book entry you wish to edit.
2. Click on the icon **Edit entry** in the **SISTORE RemoteView address book** dialog box,.
   ➔ The **SISTORE RemoteView address book entry** dialog box will be opened (see Fig. 38).
3. Make the desired changes. See the previous section "Adding an entry to the address book".
4. Click **OK**.

10.7.5 Deleting address book entries

Prerequisites:

- The address book is opened.
- There are entries in the address book.

1. In the **SISTORE RemoteView address book** dialog box, select the address book entry you wish to delete.
2. Click on the icon **Delete entry**.
   ➔ A confirmation dialog will be opened.
3. Click **Yes**.
   ➔ The address book entry is deleted.

Deleting all address book entries

Prerequisites:

- The address book is opened.
- There are entries in the address book.

1. Click on the icon **Delete all entries**.
   ➔ A confirmation dialog will be opened.
2. Click **Yes**.
   ➔ All address book entries are deleted.

10.7.6 Searching for a SISTORE MX NVS server

You can automatically scan the network for possible connections. When a connection is found, it is automatically added to the address book.

Only class C networks can be scanned (e.g. 192.168.0.xxx).

Prerequisite:

- The address book is opened.

1. Click on **Scan network**.
   ➔ A confirmation dialog will be opened.
2. Click **Yes**.
   ➔ The local network will be scanned.
   ➔ When the scanning process is completed, all the connections found are automatically added to the address book.

10.8 Virtual guard

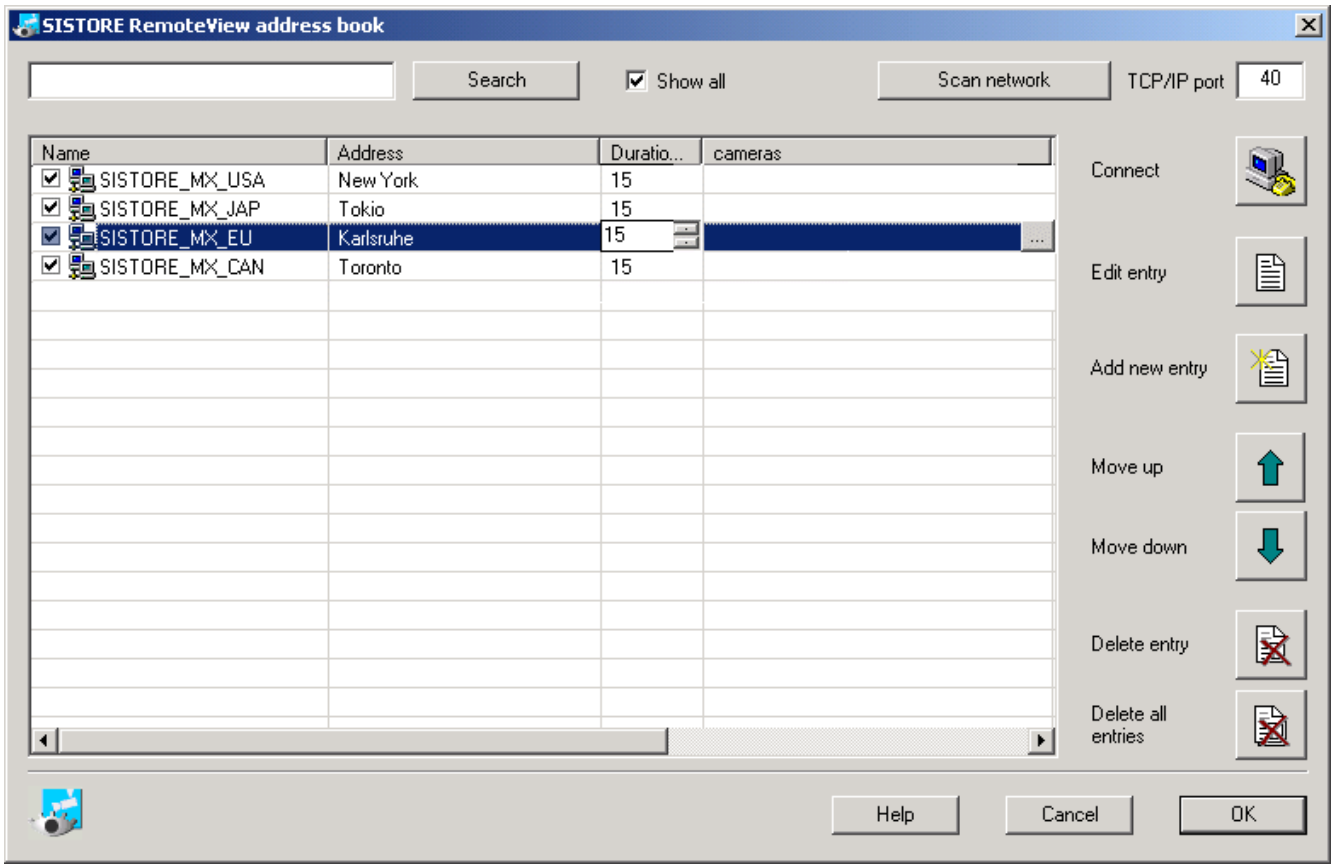
Using the virtual guard, you can establish time-controlled connections to various SISTORE MX NVS servers in a specific order and display selected cameras. After a specified time, the connection is automatically terminated and the next connection is set up.

10.8.1 Configuring the virtual guard

Prerequisites:

- There are entries in the address book.
  See Section 10.7 Address book.
- The address book is opened.
  See Section 10.7 Address book.
- The checkbox **Show all** has been marked in the address book.
  See Section 10.7 Address book.

1. Select the desired address book entry in the **SISTORE RemoteView address book** dialog box.



2. Define for how long the pictures supplied by the cameras at the site that is currently connected to RemoteView will be displayed when the virtual guard function is activated in the **Duration (s)** column.
3. Select the camera for the address book entry.
   See Section 10.7 Address book.
4. In the **Name** column, select the address book entries to be included in the virtual guard by marking the appropriate checkboxes.

5. Use the icons **Move up** or **Move down** to change the sequence of the entries in the address book.
6. Click **OK**.

➔ The virtual guard has been configured.

10.8.2 Starting/terminating the virtual guard

Starting the virtual guard

Prerequisite:

- The virtual guard has been configured.
  See Section 10.8.1 Configuring the virtual guard

1. Click the icon in the toolbar.

   – OR –

   Select the menu sequence **Administration > Start virtual guard**.

➔ The virtual guard is started.

If the user name and password for SISTORE MX NVS und SISTORE RemoteView are identical and the user has the appropriate rights, the logon to the server will take place automatically.

If the user is unknown to the server or does not have sufficient authorisation, the connection to this server will not be set up and the login dialog will not open.

In the following guard rounds the server will not be addressed again until another user has logged on to SISTORE RemoteView.

While the virtual guard is activated you can only view the live images of one SISTORE MX NVS server. To play recorded sequences or to configure a SISTORE MX NVS server, a connection has to be set up manually. See Section 10.4 Connecting to a SISTORE MX NVS server.

Terminating the virtual guard

1. Click the icon in the toolbar.

   – OR –

   Select the menu sequence **Administration > Terminate virtual guard**.

➔ The virtual guard is terminated.

10.9 Use alarm list

In the alarm list, you can view alarm events occurred during operation and add logbook comments.

Prerequisites:

- In SISTORE MX NVS: The alarm connection has been configured. The function "Alarm list entry“ has been activated.
- In SISTORE MX NVS: An alarm input has been configured and assigned to a camera.
- In SISTORE RemoteView: The function "Use alarm list“ has been activated.

Whenever an alarm occurs, an entry is added to the alarm list and the **Alarm list** window is opened.

Acknowledge alarms

1. Double click on an entry in the alarm list.
2. Add a comment in the "Logbook comment“ input field.
3. By clicking the button the live image can be displayed in addition to the alarm image. If the camera has been assigned an audio channel, the live sound will also be transmitted. (**Note**: If the live image is already active, the button will be disabled.)
4. Click the button.
   ➔ The alarm has been acknowledged.
   ➔ The alarm list will be closed unless there are any more unacknowledged alarm entries.

10.10 File transfer between RemoteView and SISTORE MX NVS servers

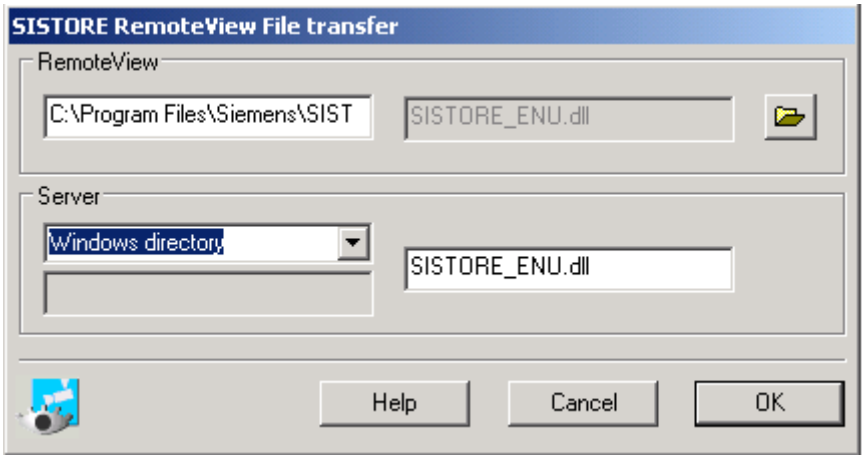
Receive files from SISTORE MX NVS servers

You can receive files from SISTORE MX NVS servers on your SISTORE RemoteView client.

Prerequisites:

- There is a connection to at least one SISTORE MX NVS server. See Section 10.4 Connecting to a SISTORE MX NVS server.
- You have the right "administration“. See Section 7.2.1 User rights.

1. Select the menu sequence **File > Receive file…**
   ➔ The following dialog box opens.



2. Enter the path of the target directory on the SISTORE RemoteView client in the **RemoteView** group field .
3. Select the path of the source directory on the SISTORE MX NVS server in the **Server** group field.
4. Enter the name of the file you wish to receive.
5. Click **OK**.
   ➔ The file will be received.

Transmit files to SISTORE MX NVS servers

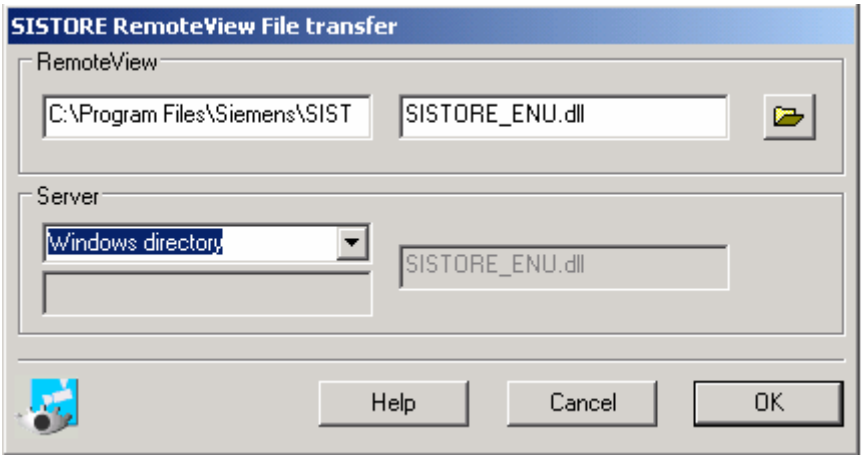
You can transmit files from a SISTORE RemoteView client to a SISTORE MX NVS server.

Prerequisites:

- There is a connection to at least one SISTORE MX NVS server. See Section 10.4 Connecting to a SISTORE MX NVS server
- You have the right "administration". See Section 7.2.1 User rights.

1. Select the menu sequence **File > Send file…**

   ➔ The following dialog box opens.



2. Enter the path of the source directory on the SISTORE RemoteView client in the **RemoteView** group field .
3. Enter the name of the file you wish to send.
4. Select the path of the target directory on the SISTORE MX NVS server in the **Server** group field.
5. Click **OK**.

   ➔ The file will be sent.

11 SISTORE Player

11.1 Starting the SISTORE Player

The SISTORE Player can be started either directly from the SISTORE MX NVS application software or using the desktop icon.

The language of the SISTORE Players is matched automatically to the language of the operating system.

After the SISTORE Player is started, only the button for opening a video file is enabled. See Section 11.2 Opening/closing video files.

Start from the SISTORE MX NVS application software

Prerequisites:

- You are logged into the SISTORE MX NVS application software. See Section 6.1 Login.
- You are either in display mode or in playback mode.
- You have the rights "Playback“ and "Export“. See Section 7.2.1 User rights.

1. Select the menu sequence **File > Execute player program…**
   ➔ The SISTORE Player is started (see Fig. 39).

Start using the desktop icon

1. Double click the icon **SISTORE Player** on your desktop.
   ➔ The SISTORE Player is started (see Fig. 39).

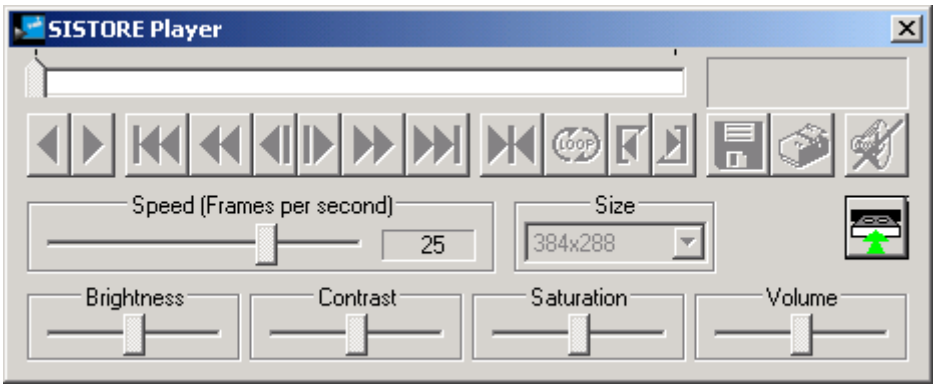


Fig. 39 SISTORE Player (no video file opened)

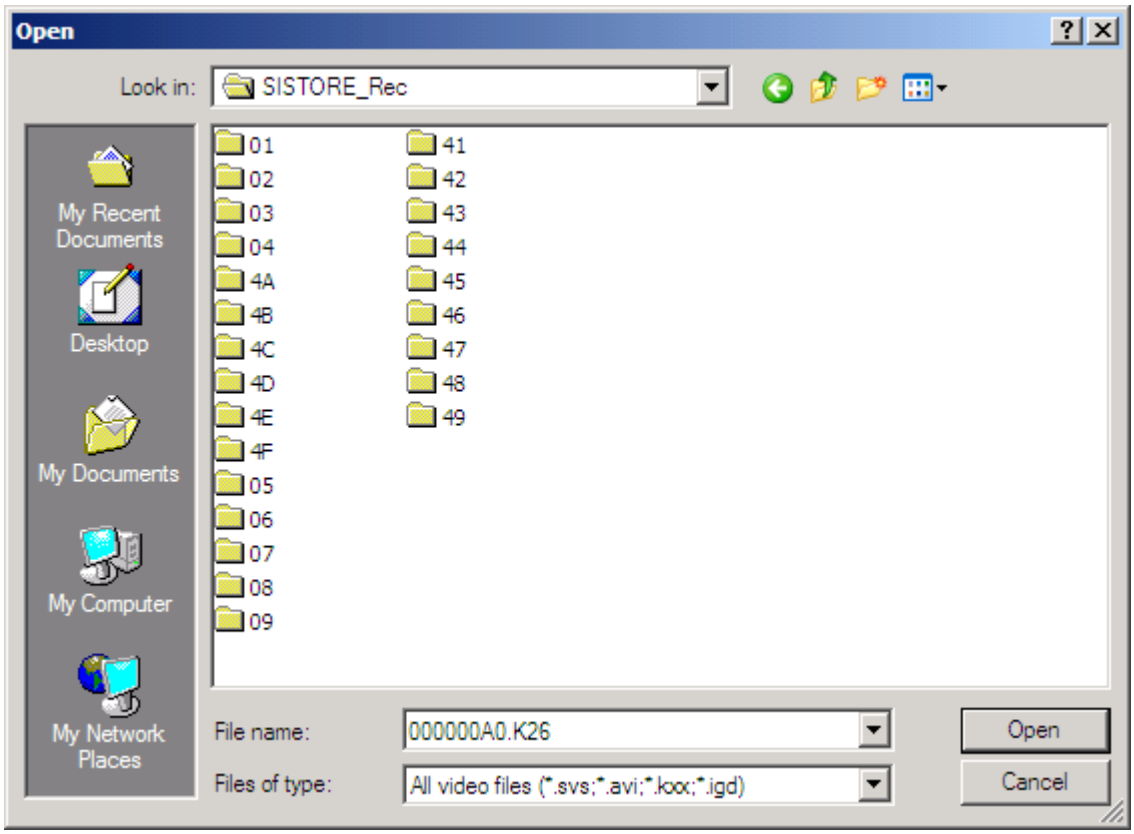
11.2 Opening/closing video files

Open video file

Prerequisite:

- The SISTORE Player is running.
  See Section 11.1 Starting the SISTORE Player.

1. Click on the icon **Open / close video file** .
   ➔ The following dialog box opens.



2. Select the directory containing the video file.
3. Select the video file.
4. Click **Open**.

➔ The video file is opened.

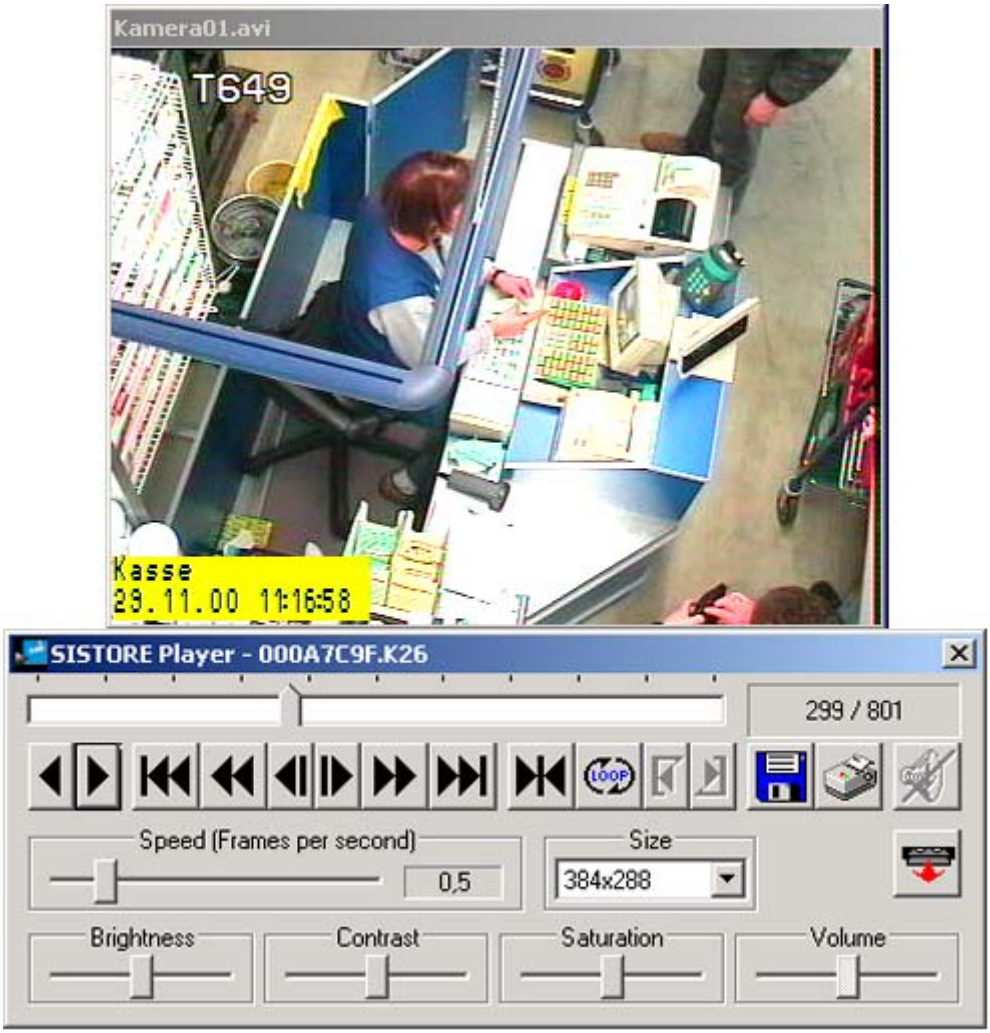


Fig. 40 SISTORE Player (a video file is opened)

Close video file

Prerequisite:

- A video file is opened.

1. Click on the icon **Open / close video file** .

➔ The video file is closed.

11.3 SISTORE Player functions

11.3.1 Playing video files

You can play video files forward, backward, at high speed or at normal speed. Beyond that, you can jump to a particular position in a video file.

Prerequisite:

- A video file is opened.
  See Section 11.2 Opening/closing video files.

Forward / reverse

1. Click either on **Play** or on **Reverse play**.

Fast forward / reverse

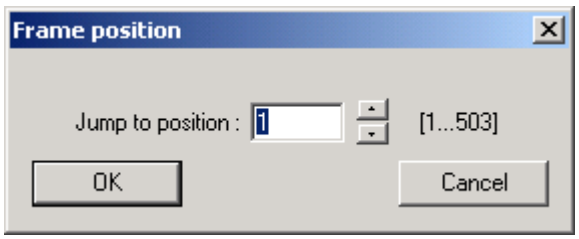
1. Click either on **Fast forward** or on **Fast rewind**.

Move to first / last image

1. Click either on **Move to first frame** or on **Move to last frame**.

Jump to a particular position

1. Click on the icon **Jump to position**.
   ➔ The following dialog box opens.



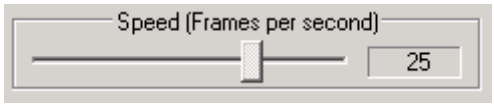
2. Select the desired position in the **Jump to position** box.
3. Click **OK**.

Stop playback

1. Click on to stop playback.

Increase/reduce playback speed

1. Move the speed slide control (frames per second) to the desired position.



11.3.2 Zooming in

You can zoom in on any section within a video image.

Prerequisite:

- A video file is opened.
  See Section 11.2 Opening/closing video files.

1. Press the left mouse button and drag a rectangle around the desired image section in the camera window.

2. Release the left mouse button.

➔ The selected image section is enlarged within the camera window.

To display the full video image again, right-click on the camera window.

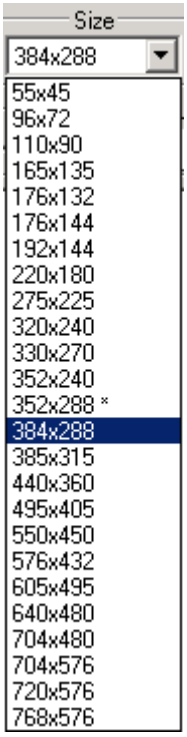
11.3.3 Selecting the size of the display window

The camera windows of the SISTORE Player can be displayed in different sizes.

Prerequisite:

- A video file is opened.
  See Section 11.2 Opening/closing video files.

1. Select the desired size of the camera window in the drop-down list under **Size**.



➔ The size of the camera window is set.

11.3.4 Starting/exiting full screen mode

Prerequisites:

- A video file is opened. See Section 11.2 Opening/closing video files.

1. Press **<Ctrl>+<F>**.

➔ Full screen mode is started or exited.

11.3.5 Playing selected segments in a loop

A particular segment in a video file can be selected and played in a loop.

Prerequisite:

- A video file is opened.
  See Section 11.2 Opening/closing video files.

1. Move the timeline slide control to the desired starting point of the segment.
2. Click the icon **Set Start of loop**.
3. Move the timeline slide control to the desired end point of the segment.
4. Click the icon **Set end of loop**.
   ➔ The time period has been selected.
5. Click the icon **Activate/Deactivate loop mode**.
6. Click any of the icons **Play**, **Reverse play**, **Fast forward** or **Fast rewind**.
   ➔ The selected segment will be played in a loop.

To exit the loop mode and return to normal playback mode, click the icon **Activate / Deactivate loop mode** once more.

11.3.6 Exporting video files or images

You can export either a complete video file that is open to AVI format or single images of a video sequence to BMP or JPG format.

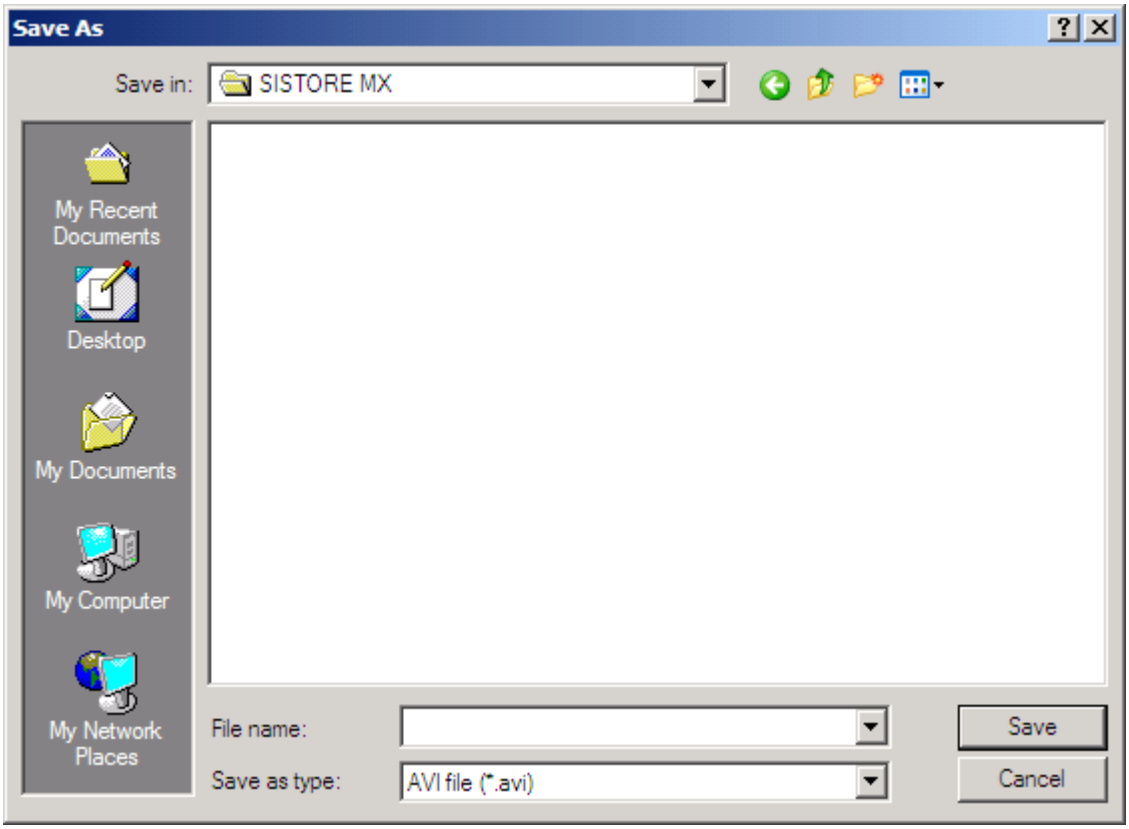
When exporting individual images, the current image parameters and zoom settings will be applied.
See Section 11.3.9 Change/ and Section 11.3.2 Zooming in.

Prerequisite:

- A video file is opened.
  See Section 11.2 Opening/closing video files.

1. To export a single image, move the slide control of the timeline to the desired position.
2. Click the icon **Export video or image**.

➔ The following dialog box opens.



3. Select the directory into which you would like to export the file.
4. Enter a **File name**.
5. In the **Save as type** drop-down list, select whether to export the complete file as a video (*.avi) or only a single image (*.bmp or *.jpg).
6. Click **Save**.

➔ The file is exported.

11.3.7 Printing individual images

The image currently displayed can be printed on a local printer or on a network printer.

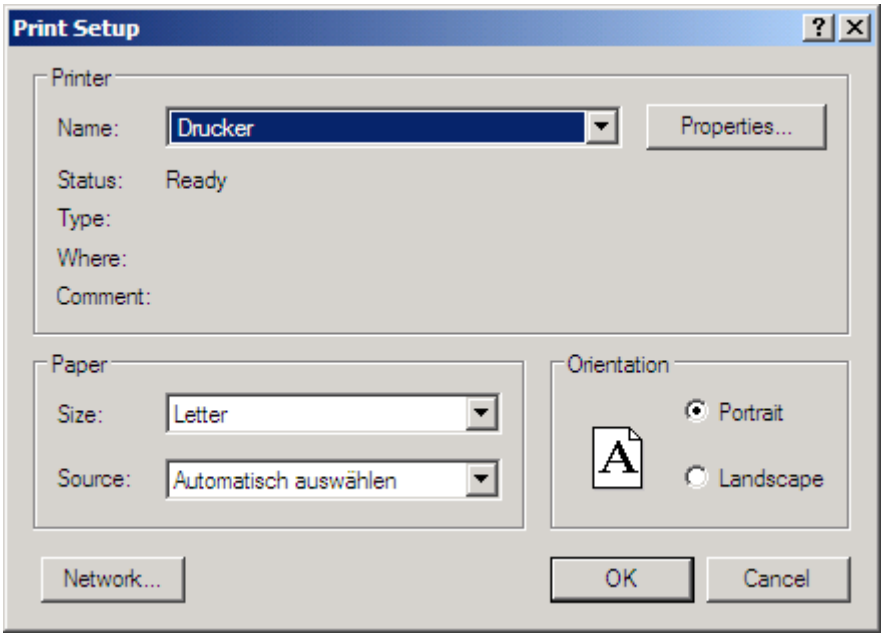
When printing images, the current image parameters and zoom settings will be applied. See Section 11.3.9 Change/ and Section 11.3.2 Zooming in.

Prerequisites:

- A video file is opened.
  See Section 11.2 Opening/closing video files.
- At least one printer is connected to the system and has been configured for the application. Further information on this can be found in the manual for your printer.

1. Move the slide control of the timeline to the desired position.
2. Click the icon **Print image**.

➔ The following dialog box opens.



3. Select the desired printer in the **Name** drop-down list in the **Printer** group field.
4. Select the **Size** and **Source** of the paper in the **Paper** group field.
5. In the Orientation group field, select either **Portrait** or **Landscape**.
6. Click **OK**.

➔ The image will be printed.

11.3.8 Signature check of video files

When exporting video files in format *.k26 from the SISTORE MX NVS application software, these are provided with an electronic signature to facilitate the detection of later manipulations on the video data.

Prerequisite:

- A video file in *.k26 format is open.
  See Section 11.2 Opening/closing video files.

1. Click the icon **Check signature video** .

➔ A symbol indicating the authenticity of the video file is displayed.

	The video file is authentic, i.e. it was not manipulated after the export
	The video file is not authentic, i.e. it has possibly been manipulated since it was exported

11.3.9 Change/reset image parameters

You can change certain image parameters of an open video file.

Prerequisite:

- A video file is opened. See Section 11.2 Opening/closing video files.

1. Move the slide controls for **brightness**, **contrast** and **colour saturation** to the desired position.

➔ The changes made to the image parameters are visible in the camera window.

The changes made to the image parameters will be applied to all the video files that are opened during the session. After a restart of the SISTORE Player the image parameters are automatically reset to the default values.

To manually restore the original image parameters, right-click on the corresponding slide control.

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Issued by
Siemens Building Technologies
Fire & Security Products GmbH & Co. oHG
D-76181 Karlsruhe

www.buildingtechnologies.siemens.com

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Document No. **A6V10072801**
Edition 13.03.2009