Bosch Recording Station



Bosch Recording Station Table of Contents | en 3

Table of Contents

1	Safety Notes	6
1.1	Safety symbols used here	6
1.2	Installation/Configuration	6
1.3	Disposal	6
2	Introduction	7
2.1	System Description	7
2.2	Supported Operating Systems	7
2.3	Virus Scanner/Windows Firewall	8
2.3.1	Virus Scanners	8
2.3.2	Configuring Windows Firewall	8
3	Configuration Wizard	9
3.1	Starting the Configuration Wizard	9
3.2	License Activation	10
3.3	Dialog box Activate license	11
3.4	Configure Remote Stations	13
3.5	Set Up Users	14
3.6	Set Up Time Profiles	15
3.7	MPEG4/H.264 Show IP Cameras Automatically	16
3.8	Edit MPEG4/H.264 IP Cameras	17
3.9	Configuring Camera Recording Settings	19
4	Default configuration	20
4.1	Configure Recording Drives	20
4.2	IP Cameras and Encoders	22
4.2.1	MPEG4/H.264 Show IP Cameras Automatically	23
4.2.2	Edit MPEG4/H.264 IP Cameras	24
4.2.3	Configure MPEG4/H.264 IP Cameras	26
4.2.4	Configuring Dome Cameras and Pan/Tilt Cameras	28
4.2.5	Setting the comparison image	31
4.2.6	Configure JPEG IP Cameras	32
4.3	Configuring Time Profiles	35
4.4	Configure Recording Settings	37
4.4.1	Configure Recording Settings for MPEG4/H.264 IP Cameras	37
4.4.2	Enhanced settings of the MPEG4/H.264 IP cameras	39
4.4.3	Configure Recording Settings of JPEG IP Cameras	40
4.5	Configure Inputs and Outputs	42
4.5.1	Configure Alarm Simulation	42
4.5.2	Configure Virtual Inputs	43
4.5.3	Configure Automatic Teller Machines	44
4.5.4	Configure Foyer Card Reader	46
4.5.5	Configure foyer card reader time control	48
4.5.6	Configure Inputs from Alarm Panels (AP)	49
4.5.7	Assign Line Statuses to Inputs (Not for Bosch G Series)	50
4.5.8	Assign Addresses to Inputs (Not for Bosch G Series)	51

en l Table of Contents	Bosch Recording Station

4.5.9	Assign Addresses to Inputs (Bosch G Series)	52
4.5.10	Configure POS Inputs	53
4.5.11	Configure ATM/POS Inputs	55
4.5.12	Configure Norma Processing	57
4.6	Configure Alarm Processing	59
4.7	Configure the E-mail Server Setup	62
4.8	Configure Remote Stations	63 65
4.9	Configure alarm transmission	
4.10	Configure Export Video Scheduler	68
4.11 4.11.1	Create Authorization Levels	70 72
4.11.1	Select LDAP Server User Group Configure users	75
4.12	Configure Security and Network Settings	77
4.13	Configure Error Forwarding	79
4.14.1	Adding a Recipient/Editing Recipient Data	81
4.15	Configure Options	82
4.15.1	MIB List for SNMP	85
4.15.1	Notification via SNMP	86
4.15.3	Configure Automatic Alarm Recording	87
4.16	Activate Software Licenses	88
4.16.1	Dialog box Activate license	89
5	Remote Configuration	91
6	Connections	92
6.1	Network Connection via DSL	92
6.2	Connecting External Hard Disks	94
6.3	Connecting an ATM (Serial)	95
6.4	Connecting an Alarm Panel	99
6.4.1	General	99
6.4.2	Connecting to NZ 500 (20 mA)	101
6.4.3	Connecting to BZ 500 (20 mA)	101
6.4.4	Connecting to AZ 1010/NZ 1008	102
6.4.5	Connecting to NZ 1012	103
6.4.6	Connecting to NZ 1060	104
6.4.7	Connecting to UEZ 1000 (20 mA)	105
6.4.8	Connecting to UEZ 2000 (20 mA)	105
6.4.9	Connecting to UGM 2020	106
7	Troubleshooting and Checks	107
7.1	Troubleshooting	107
7.2	Checking the Network Connection	109
7.3	Checking the Optional ATM Connection	110
7.4	Installing a web server	111
7.5	Checking the Web Connection	111
		111
8	Notes on Service and Maintenance	112
8.1	Maintenance Work to be Carried Out	112

Bosch Recording Station		Table of Contents en 5
8.2	Software Update	113
8.3	Troubleshooting	113
9	Technical Specifications	114
	Index	115

6 en | Safety Notes Bosch Recording Station

1 Safety Notes

Follow the safety instructions below when handling the device.

1.1 Safety symbols used here

The safety instructions shown below must be followed:



NOTICE!

Indicates information relating directly or indirectly to personnel safety or the protection of property.

CAUTION!

Indicates a potentially dangerous situation that can lead to material damage if it is not prevented.

1.2 Installation/Configuration



NOTICE!

The installation/configuration of Bosch Recording Station should be implemented by qualified customer service personnel only.

1.3 Disposal



Disposal

Your Bosch product has been developed and manufactured using high-quality materials and components that can be reused.

This symbol means that electronic and electrical devices that have reached the end of their working life must be disposed of separately from household waste.

In the EU, separate collecting systems are already in place for used electrical and electronic products. Please dispose of these devices at your local communal waste collection point or at a recycling center.

Bosch Recording Station Introduction | en 7

2 Introduction

2.1 System Description

The Bosch Recording Station is a monitoring software program that saves video images recorded by IP cameras directly on site and transmits them across any distance to any location determined by you. Analog cameras can be connected via an encoder.

The Bosch Recording Station can be used for a variety of purposes such as, for instance, in banks, large retail stores, railway stations, airports, city centers, industrial complexes and office buildings.

The system offers extended display characteristics, very high flexibility for recording as well as fast and easy access to video images and information. Video images can be called up at any location worldwide 24/7. Communication with and access to the Bosch Recording Station take place via the private or public network. To this end the system can be connected to a number of peripheral devices and systems.

Search and navigation functions in the tree structure make it easy to reproduce recorded images. Images can be accessed locally or remotely via a corporate network or the internet. Several different camera views can be selected. Fast and powerful image search functions make time-consuming manual searches unnecessary. Functions include searching for image changes (Smart Motion Search) as well as searching by criteria such as camera number and the date and time of recording.

Access is controlled via user authorizations to maintain a high level of security. Events such as login, logout, status change, image transmission and system shutdown are stored in a database. Integrated video authentication prevents images being manipulated.

Various storage devices such as external disk arrays, RAID and NAS devices and external hard disks can be used to retrieve and store images.

Installation is quick and easy thanks to a configuration wizard. Bosch alarm systems, automated teller machines, Allegiant matrix switches and foyer card readers can be connected to serial inputs.

2.2 Supported Operating Systems

The Bosch Recording Station is compatible with the following operating systems:

- Windows 7 (32-bit/64-bit)
- Windows Server 2008 R2 (64-bit)
- Windows Server 2008 (32-bit)
- Windows XP Professional SP 3 (32-bit)
- Windows Server 2003 (32-bit)

Note

Observe the installation requirements for the individual operating systems!

The Quick Installation Guide provides you with information on installation requirements and a detailed description of how to complete the initial installation process using the configuration wizard.

8 en | Introduction Bosch Recording Station

2.3 Virus Scanner/Windows Firewall



NOTICE!

We recommend that you install a virus scanner and firewall to protect against computer viruses, computer worms and Trojans.

2.3.1 Virus Scanners

Always use the most up-to-date virus scanner.

Note:

- The virus scanner can affect the performance of the system.
- The real-time virus scanner must be activated to ensure sufficient protection against viruses.
- If possible, all partitions on the hard disk that contain saved images should be excluded from the scanning process.
- If possible, the C drive should be scanned at scheduled times. We recommend you carry
 out a scan on a weekly basis. When the C disk is scanned, the performance of the system
 is noticeably lowered and with it the image retrieval and storage rates.

Individual images may be lost.

 Removable drives, e. g. USB memory sticks, USB drives, CD/DVD drives and diskette drives, must be manually checked when inserted to ensure sufficient protection.

2.3.2 Configuring Windows Firewall

We recommend that you disable the Windows firewall. If the Windows firewall is activated, the following exceptions must be added and selected in the Windows firewall:

Bosch Recording Station		
Exceptions in Windows firewall settings		
ConnectionServer.exe		
DBServer.exe		
DiBosExplorer.exe		
DomeCameraUnit.exe		
DVRServiceShimWrapper.exe		
JobServer.exe		
Parametrierung.exe		
VCSModule.exe		
VSDKPluginModule.exe		
DCOM (TCP) Port 135		
DCOM (UDP) Port 135		
Remote Configuration (TCP) Port 8080		

Note:

- The Bosch Recording Station processes must also be activated in the firewall of the virus scanner software.
- The ports required to bypass the firewall can be set in the configuration.

Bosch Recording Station Configuration Wizard | en

3 Configuration Wizard

Use the enclosed Quick Installation Guide to install the Bosch Recording Station.

The Quick Installation Guide provides you with information on installation requirements and a detailed description of how to complete the initial installation process using the configuration wizard.

3.1 Starting the Configuration Wizard

The configuration wizard will be displayed the first time the Bosch Recording Station is started following installation.



The configuration wizard allows you to search for IP cameras in the network and assign camera schedules and recording settings.

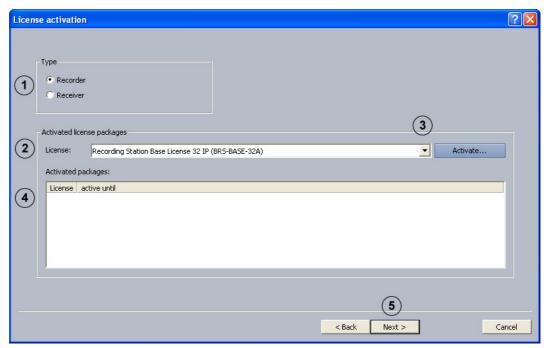
Note:

It is not possible to load DiBos configurations.

1	Load	Loads an existing configuration file (.prm file).
		Note:
		Click Start , right-click Bosch Recording Station , and then
		click Run as Administrator to load an existing Bosch
		Recording Station configuration file.
2	Next >	Starts the configuration wizard. The configuration wizard allows you to search for IP cameras in the network and assign
		camera schedules and recording settings.

License Activation 3.2

Configuration wizard > Dialog box License activation



You can activate licenses in this dialog box.

1	Recorder - Receiver	Select whether you want to install a recorder or a receiver.
2	License:	Shows the license package to be activated.
3	Activate	Opens a dialog box to activate the license package (see Section 4.16.1 Dialog box Activate license).
4	Activated packages:	Shows a list of activated license packages.
5	Next >	Shows the next dialog box of the configuration wizard.

Bosch Recording Station Configuration Wizard | en 11

3.3 Dialog box Activate license

Menu **Software licenses** > Dialog box **License activation** > Select license > Button **Activate...** or

Configuration wizard > Dialog box License activation > Select license > Button Activate...



You can enter the license activation key in this dialog box in order to activate the license package.

Note:

If your computer hardware does not provide a unique computer signature, you can purchase a dongle with a fixed dongle ID.

Packages that already have a license must be transferred to the dongle ID. To do this, please contact Bosch Security Systems Technical Support.

The dongle does not include the license itself. Activation with a license activation key is still required.

You have an authorization number and need a license activation key:

- 1. Make a note of the computer signature or use the copy and paste function to insert it into a text file.
- 2. On a computer with Internet access, enter the following URL in the browser:

https://activation.boschsecurity.com

You are now in Bosch License Manager.

- Follow the instructions to call up a license activation key. Make a note of the license activation key or use the copy and paste function to it into a text file.
- In the Activate license dialog box in the Bosch Recording Station configuration, enter the license activation key called up from the Bosch License Manager and then click on Activate. The license package is activated.

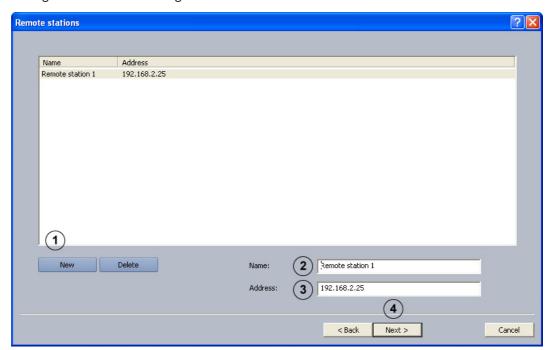
Note:

Keep hold of the authorization number, computer signature and activation key in case you have any technical queries.

Bosch Recording Station Configuration Wizard | en 13

3.4 Configure Remote Stations

Configuration wizard > Dialog box Remote stations



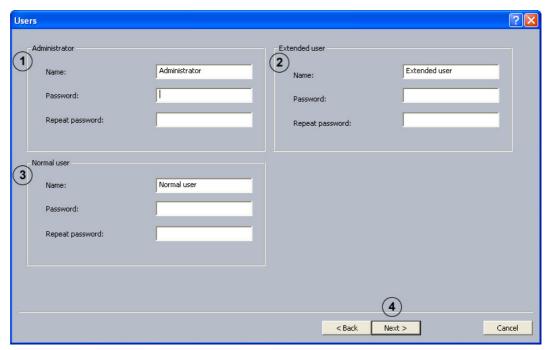
Use this dialog box to create remote stations.

1	New	Creates a new remote station.
2	Name:	Enter a name for the remote station.
3	Address:	Enter the remote station IP address or the computer name.
		Create more remote stations as and when required.
4	Next >	Shows the next dialog box of the configuration wizard.

14

3.5 Set Up Users

Configuration wizard > Dialog box Users



In the case of an initial installation, the system automatically creates three authorization levels and three users. These cannot be deleted.

1	Administrator	Possesses all rights concerning operation and configuration of the system.
2	Extended user	Possesses all rights concerning operation of the system. Does not possess the right to configure the system with the exception of the right to create a user with the authorization Normal user.
3	Normal user	Possesses all rights concerning operation of the system. He possesses no rights for configuration.
4	Next >	Shows the next dialog box of the configuration wizard.

Proceed as follows to create a new user:

- Create a new user by entering Name: and Password: in the corresponding authorization.
 Make a note of the name and password, as you will need it afterwards to log on.
- 2. Enter the same password again under Repeat password:.
- 3. Click **Next >** to call up the next page of the wizard or **Finish** to save the entries and exit the wizard.

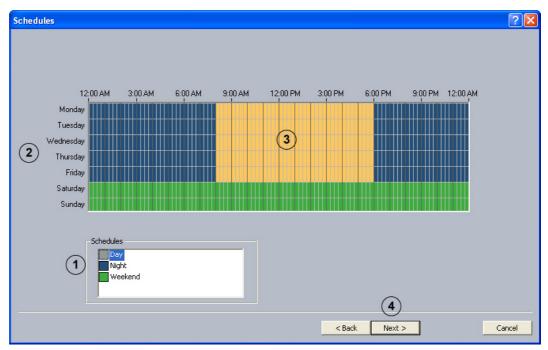
Note:

By default, no password is assigned for the authorization levels.

Bosch Recording Station Configuration Wizard | en 15

3.6 Set Up Time Profiles

Configuration wizard > Dialog box **Schedules**



Assignment of the time profiles is done with the mouse cursor in a graphical time planner. There are 3 time profiles available. These time profiles can be assigned to any day of the week. The time profiles are displayed in different colors.

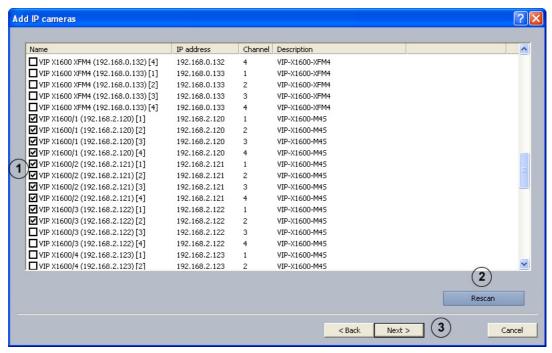
1	Schedules	Select the time profile that you want to assign to a day.
2	Monday - Sunday	Different times are possible for every day of the week.
3	Graphical time planner	Move the mouse cursor into the graphical time planner. Clicking with the left mouse button marks a cell. Dragging up a square while pressing the left mouse button marks a time profile. All selected cells take the color of the selected time profile. To edit selected cells in the graphical time planner, select another time profile and overwrite the cell already selected.
4	Next >	Shows the next dialog box of the configuration wizard.

3.7 MPEG4/H.264 Show IP Cameras Automatically

Menu IP cameras and encoders > Scan network...

or

Configuration wizard > Dialog box Add IP cameras



This dialog box displays all of the MPEG4/H.264 IP cameras in the system.

1		Activate the check boxes of the cameras to be added to the Bosch Recording Station.
2	Rescan	Searches the network for MPEG4/H.264 IP cameras.
3	Next >	Adopts your input and shows the next dialog box.

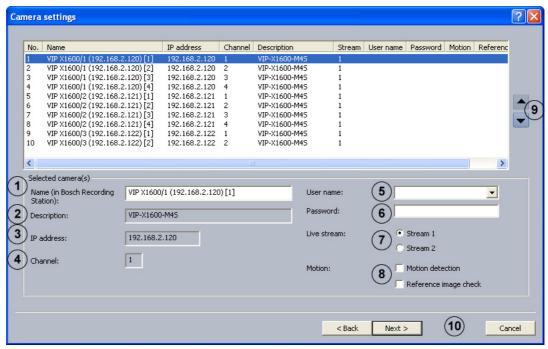
Bosch Recording Station Configuration Wizard | en 17

3.8 Edit MPEG4/H.264 IP Cameras

Menu IP cameras and encoders > Scan network... > Next >

or

Configuration wizard > Dialog box Camera settings



Use this dialog box to assign specific properties to MPEG4/H.264 IP cameras, for instance motion detection and reference image check.

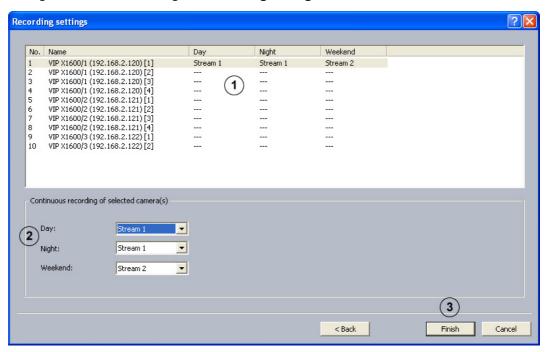
1	Name (in Bosch	Select the camera from the overview and enter the name of
	Recording Station):	the camera. This name is displayed as the camera name in the
		Bosch Recording Station.
		Note:
		It is possible to select multiple cameras.
2	Description:	Shows the type of IP camera.
3	IP address:	Shows the IP address of the IP camera.
4	Channel:	Shows the channel of the IP camera.
5	User name:	Enter the relevant user name and password for MPEG4/H.264
6	Password:	devices, where required for login purposes (e.g. when a user
		name and password are configured in the MPEG4/H.264
		device).
		Note:
		Select the user name Service if a service password has been
		assigned for the MPEG4/H.264 device. Enter the
		corresponding password.
7	Live stream:	Select the stream of the MPEG4/H.264 device (Stream 1 or
		Stream 2) to be used for viewing live images.
		Note:
		Stream 2 is not available for selection if the camera only
		delivers one stream.
1	1	

8	Motion:	Activate the Motion detection option and/or Reference image check option of the MPEG4/H.264 device. Note: The motion detection and reference image check must also be activated in the MPEG4/H.264 device. The name of the MPEG4/H.264 device appears in the Alarm processing menu in the Trigger section. The trigger can, for example, be selected such that it controls recording. To do so, you must select the job you require.
9		Changes the sequence of cameras in the overview as well as in the configuration and user interface.
10	Next >	Adopts your input and shows the next dialog box.

Bosch Recording Station Configuration Wizard | en 19

3.9 Configuring Camera Recording Settings

Configuration wizard > Dialog box Recording settings



Use this dialog box to define continuous recording for each camera.

1		Shows the cameras assigned to the Bosch Recording Station.
		Select the camera in the overview.
		Note:
		It is possible to select multiple cameras.
2	Day:	Apply the setting that is used for continuous recording. Then
	Night:	select a stream for each time profile.
	Weekend:	
3	Finish	Saves the settings and finishes the wizard.

4 Default configuration

20

The default configuration allows more complex requirements or customer wishes to be catered for than the Configuration wizard.

Go through the configuration tree from top to bottom by clicking on individual menu points and making the corresponding entries.

It is not possible to switch from standard configuration to the configuration wizard.

CAUTION!

For security reasons, it is advisable to save the configuration on external data carriers.

4.1 Configure Recording Drives

Menu Recording drives



This dialog box gives you an overview of the hard disks and network drives available.

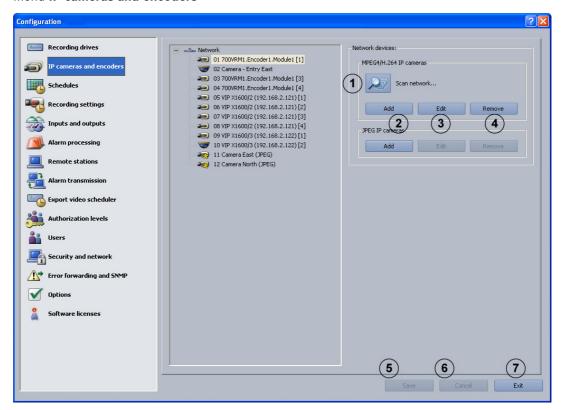
1		The list field contains all the hard disks and network drives
		known to the system. The total size, the free storage capacity
		and the used storage capacity are shown in MByte.
		The drives listed can be activated or deactivated.
		Activate the drive by clicking on the check box.
		☑●D:\ The drive is activated.
		□ [□] D:\ The drive is not activated.
2	New network drive	Adds a new network drive.
3	Disconnect network	Disconnects a network drive. Select the drive and click on the
	drive	button.

4	Update	If an additional network drive is put into operation during configuration, this can be included in the list field by clicking Update .
5	Selected drives	Shows the total recording memory capacity for the activated cameras as well as the free memory space and occupied memory in MByte.
6	Save	Saves your input.

22

4.2 IP Cameras and Encoders

Menu IP cameras and encoders



This dialog box provides an overview of configured network components (IP cameras).

Note:

You can configure a maximum of 64 IP cameras. Cameras must be activated via software licenses (see *Section 4.16.1 Dialog box Activate license*).

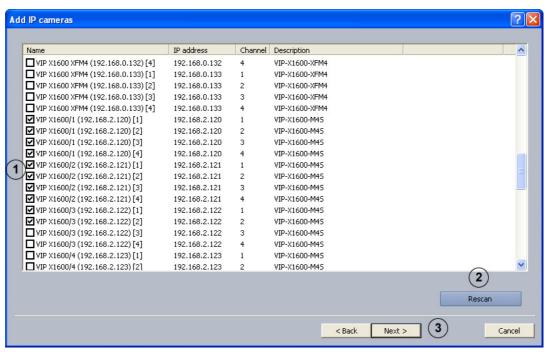
1	Scan network	The system detects connected MPEG4/H.264 IP cameras automatically. The network scan searches the network for available IP cameras. You cannot configure the actual IP cameras in the Bosch Recording Station. IP cameras must be configured in advance with the appropriate tool (e.g. BVIP-Configuration
		Manager)
2	Add	Adds MPEG4/H.264 IP cameras or JPEG IP cameras.
3	Edit	Changes the settings of existing IP cameras.
4	Remove	Removes IP cameras from the configuration.
5	Save	Saves your input. The menu stays open
6	Cancel	Resets menu entries to the most recently saved configuration.
7	Exit	Ends configuration.

4.2.1 MPEG4/H.264 Show IP Cameras Automatically

Menu IP cameras and encoders > Scan network...

0

Configuration wizard > Dialog box Add IP cameras



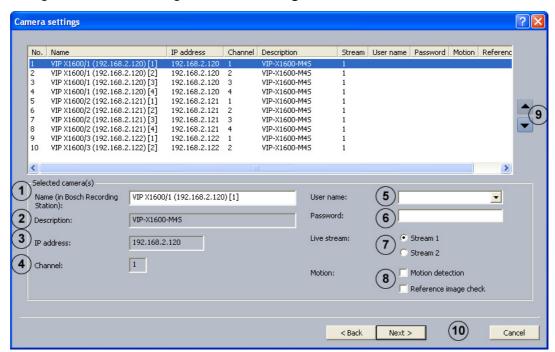
This dialog box displays all of the MPEG4/H.264 IP cameras in the system.

1		Activate the check boxes of the cameras to be added to the Bosch Recording Station.
2	Rescan	Searches the network for MPEG4/H.264 IP cameras.
3	Next >	Adopts your input and shows the next dialog box.

4.2.2 **Edit MPEG4/H.264 IP Cameras**

Menu IP cameras and encoders > Scan network... > Next >

Configuration wizard > Dialog box Camera settings



Use this dialog box to assign specific properties to MPEG4/H.264 IP cameras, for instance motion detection and reference image check.

1	Name (in Bosch	Enter the name of the IP camera. This name is displayed as
	Recording Station):	the camera name in the Bosch Recording Station.
2	Description:	Shows the type of IP camera.
3	IP address:	Shows the IP address of the IP camera.
4	Channel:	Shows the channel of the IP camera.
5	User name:	Enter the relevant user name and password for MPEG4/H.264
6	Password:	devices, where required for login purposes (e.g. when a user
		name and password are configured in the MPEG4/H.264
		device).
		Note:
		Select the user name Service if a service password has been
		assigned for the MPEG4/H.264 device. Enter the
		corresponding password.
7	Live stream:	Select the stream of the MPEG4/H.264 device (Stream 1 or
		Stream 2) to be used for viewing live images.
		Note:
		Stream 2 is not available for selection if the camera only
		delivers one stream.

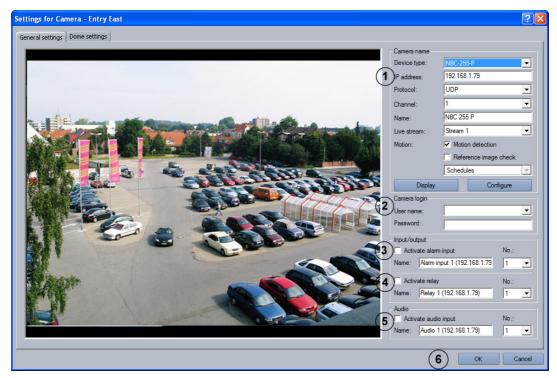
8	Motion:	Activate the Motion detection option and/or Reference image check option of the MPEG4/H.264 device.
		Note:
		177
		 The motion detection and reference image check must
		also be activated in the MPEG4/H.264 device.
		- The name of the MPEG4/H.264 device appears in the
		Alarm processing menu in the Trigger section. The
		trigger can, for example, be selected such that it
		controls recording. To do so, you must select the job you
		require.
9		Changes the order of the cameras in the overview.
10	Next >	Adopts your input and shows the next dialog box.

en | Default configuration Bosch Recording Station

4.2.3 Configure MPEG4/H.264 IP Cameras

26

Menu IP cameras and encoders > Section MPEG4/H.264 IP cameras > Button Edit > Tab General settings



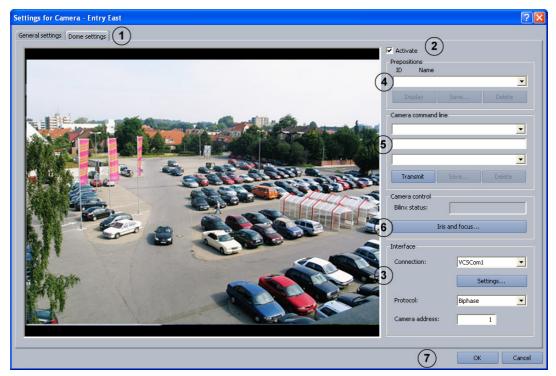
In this menu you can only configure MPEG4/H.264 devices that are able to deliver MPEG4/H.264 images on call (e.g. Dinion IP, VIPX 1600). Depending on the model, a maximum of 64 network devices (JPEG cameras and MPEG4/H.264 devices) can be connected.

1	Camera name	
	Device type:	Select the MPEG4/H.264 device you require.
	IP address:	Enter the IP address of the MPEG4/H.264 device.
	Channel:	Select the channel of the MPEG4/H.264 device.
	Name:	Enter the name of the MPEG4/H.264 device. The choice of name is up to you.
	Live stream:	Select the stream of the MPEG4/H.264 device (Stream 1 or Stream 2) to be used for viewing live images.
	Motion:	Activate the Motion detection option and/or Reference
	Motion detection	image check option of the MPEG4/H.264 device.
	Reference image check	Note:
		- The motion detection and reference image check must
		also be activated in the MPEG4/H.264 device.
		- The name of the MPEG4/H.264 device appears in the
		Alarm processing menu in the Trigger section. The
		trigger can, for example, be selected such that it
		controls recording. To do so, you must select the job
		you require.
	Schedules	Choose the time profiles during which reference image
		checks will take place.

	Display	Displays the live image of the selected MPEG4/H.264 device
	Бізріаў	if the settings have been made correctly.
	Configure	Displays the configuration of the selected MPEG4/H.264 device in a browser window.
2	Camera login	
	User name:	Enter the relevant user name and password for MPEG4/
	Password:	H.264 devices, where required for login purposes (e.g.
		when a user name and password are configured in the
		MPEG4/H.264 device). Note:
		Select the user name Service if a service password has
		been assigned for the MPEG4/H.264 device. Enter the
		corresponding password.
3	Activate alarm input	Activate this check box if you want the Bosch Recording
		Station to be controlled by an input trigger to the MPEG4/
		H.264 device.
		Note: Depending on the type of IP device (e.g. VIP X1600), more
		than 1 alarm input can be configured. Under No.: , select the
		alarm input of the MPEG4/H.264 device and activate the
		Activate alarm input check box for this alarm input.
	Name:	Enter the name of the alarm input. The choice of name is up
		to you.
	No.:	Choose the alarm input of the selected MPEG4/H.264
		device.
4	No.: Activate relay	device. Activate the check box if you want the relay output of the
4		device. Activate the check box if you want the relay output of the MPEG4/H.264 device to be controlled by the Bosch
4		device. Activate the check box if you want the relay output of the
4		device. Activate the check box if you want the relay output of the MPEG4/H.264 device to be controlled by the Bosch Recording Station.
4		device. Activate the check box if you want the relay output of the MPEG4/H.264 device to be controlled by the Bosch Recording Station. Note: Depending on the type of IP device (e.g. VIP X1600), more than 1 relay output can be configured. Select the relay
4		device. Activate the check box if you want the relay output of the MPEG4/H.264 device to be controlled by the Bosch Recording Station. Note: Depending on the type of IP device (e.g. VIP X1600), more than 1 relay output can be configured. Select the relay output of the MPEG4/H.264 device under No.: and activate
4	Activate relay	device. Activate the check box if you want the relay output of the MPEG4/H.264 device to be controlled by the Bosch Recording Station. Note: Depending on the type of IP device (e.g. VIP X1600), more than 1 relay output can be configured. Select the relay output of the MPEG4/H.264 device under No.: and activate the Activate relay check box for this relay output.
4		device. Activate the check box if you want the relay output of the MPEG4/H.264 device to be controlled by the Bosch Recording Station. Note: Depending on the type of IP device (e.g. VIP X1600), more than 1 relay output can be configured. Select the relay output of the MPEG4/H.264 device under No.: and activate the Activate relay check box for this relay output. Enter the name of the relay output. The choice of name is
4	Activate relay Name:	device. Activate the check box if you want the relay output of the MPEG4/H.264 device to be controlled by the Bosch Recording Station. Note: Depending on the type of IP device (e.g. VIP X1600), more than 1 relay output can be configured. Select the relay output of the MPEG4/H.264 device under No.: and activate the Activate relay check box for this relay output. Enter the name of the relay output. The choice of name is up to you.
4	Activate relay	device. Activate the check box if you want the relay output of the MPEG4/H.264 device to be controlled by the Bosch Recording Station. Note: Depending on the type of IP device (e.g. VIP X1600), more than 1 relay output can be configured. Select the relay output of the MPEG4/H.264 device under No.: and activate the Activate relay check box for this relay output. Enter the name of the relay output. The choice of name is
5	Activate relay Name:	device. Activate the check box if you want the relay output of the MPEG4/H.264 device to be controlled by the Bosch Recording Station. Note: Depending on the type of IP device (e.g. VIP X1600), more than 1 relay output can be configured. Select the relay output of the MPEG4/H.264 device under No.: and activate the Activate relay check box for this relay output. Enter the name of the relay output. The choice of name is up to you. Choose the relay output of the selected MPEG4/H.264 device.
	Activate relay Name:	device. Activate the check box if you want the relay output of the MPEG4/H.264 device to be controlled by the Bosch Recording Station. Note: Depending on the type of IP device (e.g. VIP X1600), more than 1 relay output can be configured. Select the relay output of the MPEG4/H.264 device under No.: and activate the Activate relay check box for this relay output. Enter the name of the relay output. The choice of name is up to you. Choose the relay output of the selected MPEG4/H.264
	Activate relay Name:	device. Activate the check box if you want the relay output of the MPEG4/H.264 device to be controlled by the Bosch Recording Station. Note: Depending on the type of IP device (e.g. VIP X1600), more than 1 relay output can be configured. Select the relay output of the MPEG4/H.264 device under No.: and activate the Activate relay check box for this relay output. Enter the name of the relay output. The choice of name is up to you. Choose the relay output of the selected MPEG4/H.264 device. Activate this check box if the audio input of the MPEG4/
	Activate relay Name: No.: Activate audio input	device. Activate the check box if you want the relay output of the MPEG4/H.264 device to be controlled by the Bosch Recording Station. Note: Depending on the type of IP device (e.g. VIP X1600), more than 1 relay output can be configured. Select the relay output of the MPEG4/H.264 device under No.: and activate the Activate relay check box for this relay output. Enter the name of the relay output. The choice of name is up to you. Choose the relay output of the selected MPEG4/H.264 device. Activate this check box if the audio input of the MPEG4/H.264 device is to be used.
	Activate relay Name: Activate audio input Name:	device. Activate the check box if you want the relay output of the MPEG4/H.264 device to be controlled by the Bosch Recording Station. Note: Depending on the type of IP device (e.g. VIP X1600), more than 1 relay output can be configured. Select the relay output of the MPEG4/H.264 device under No.: and activate the Activate relay check box for this relay output. Enter the name of the relay output. The choice of name is up to you. Choose the relay output of the selected MPEG4/H.264 device. Activate this check box if the audio input of the MPEG4/H.264 device is to be used. Enter the name of the audio input.

4.2.4 Configuring Dome Cameras and Pan/Tilt Cameras

Menu IP cameras and encoders > Section MPEG4/H.264 IP cameras > Button Edit > Tab Dome settings



Perform the settings for each camera as required.

1	Dome settings	Click on the tab.
2	Activate	Select the check box if the camera is a dome camera or a
		pan/tilt camera.

Performing interface settings

3	Interface	The interface settings must be made first. Only then can further dome settings follow.
	Connection:	Click on the down arrow and select the interface (VCSCom = serial RS232 port of the encoder).
	Settings	Click on the button. A dialog box opens. Perform the settings for the VCSCom interface (bits per second, data bits, stop bits, parity etc.). The settings depend on the type of camera. JVC: 9600/8/1/even Panasonic 9600/8/1/none (on the Panasonic Dome, the bitrate must be set manually) Pelco: 2400/8/1/none Bosch domes: The dome settings must be saved.
	Protocol:	Select the protocol depending on the camera connected.
	Camera address:	Enter the address of the camera. The address is set in the camera.

28

Saving camera positions

You can specify positions for dome cameras and pan/tilt cameras to which you can repeatedly pan automatically or manually. The user can quickly select these positions in the live image, provided that these have been enabled for his level of authorization. An automatic go-to if an event occurs is also possible.

Proceed as follows to save a new position:

- Select a free ID.
- Pan the camera to the position and zoom the image as desired.
- Save the procedure.

4	Prepositions	
	ID Name	Click on the down arrow next to the list field and select an
		unused number when you want to save a new position, or
		select a saved position to edit it.
		Note:
		When the user selects this name, the camera automatically
		moves to this camera position.
	Pan/Zoom	Panning cameras:
	_ û _	Move the mouse cursor around in the camera image until the
	N	directional arrow points in the direction in which you want to
	R 6 2	pan the camera. Then hold the left mouse button down. The camera pans in the direction of the arrow, the speed
	•	increasing the further you move the arrow outwards (with the
		left mouse button pressed).
		Zooming cameras:
		Move the mouse cursor around in the camera image window
		until a magnifying glass with a plus or minus sign appears.
		Left-click with the mouse to zoom the camera.
		Magnifying glass with a plus sign: Camera moves in toward
		the object.
		Magnifying glass with a minus sign: Camera moves away from
		the object.
	Save	Click on the button to save the positions. A dialog box opens.
		Enter a meaningful name and confirm the entry.
		Note:
		Some dome cameras require you to set aperture and focus
		when saving positions. In this case a query will appear during
		the save process.
	Display	To check, select a saved position and click on the button. The
		camera moves to the saved position.
	Delete	Select a saved position and click on the button.

Entering macros (control commands) via the command line

Here you can specify various macros (commands) for dome cameras, pan/tilt cameras or matrix switches via a command line. These macros can be called up manually or automatically. The choice of macros available can be found in the operating manual of the respective camera or matrix switch. The user can quickly select these macros in the live image, provided they have been enabled for his level of authorization.

5 Camera o	command line	
- Camera command lin	e	First line:
Display main menu	_	The list contains predefined macros (commands). Select the
D01	-	macro.
Transmit	Save Delete	Middle line (command line):
		Displays the macro you selected in the first line.
		As an alternative, this line also offers you the option of
		creating a new macro if you cannot find it in the list field for
		the first line.
		Bottom line:
		Assign a free number to the macro.
Save		Click on the button to save. A dialog box opens. Enter a
		meaningful name and confirm the entry. A message confirms
		that this has been saved.
		Note:
		The macro is available to the user on the user interface.
Transmit		Click on the button to check the macro.
Delete		Deletes the saved macro.

Camera control

The focus and iris can be set for each camera

6	Iris and focus	Click on the button. A dialog box opens. Set the aperture and
		focus.

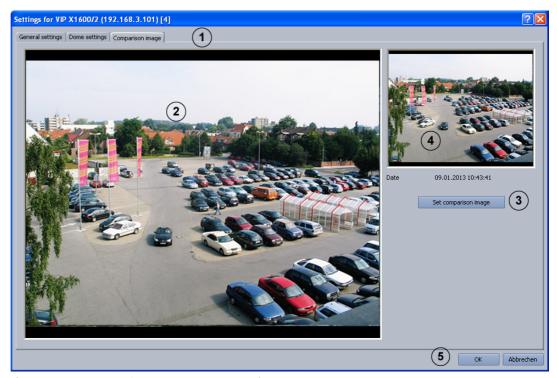
Saving entries

I	7	OK	Saves your input.

30

4.2.5 Setting the comparison image

Menu IP cameras and encoders > Section MPEG4/H.264 IP cameras > Button Edit > Comparison image tab

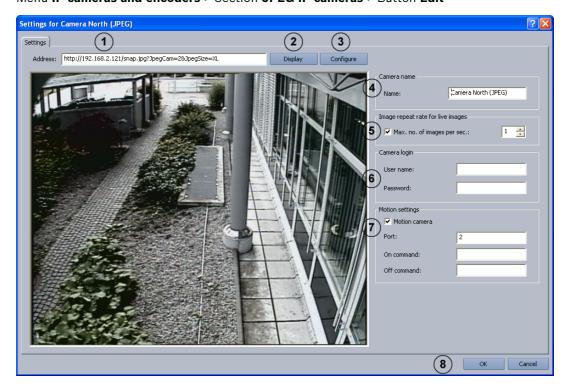


If necessary, set up the image comparison for every camera.

1	Comparison image	Click on the tab.
2		Shows the camera live image.
3	Set comparison image	Click the button if you want to save the image as a comparison image.
4		Displays the stored comparison image for the camera.
5	ОК	Saves your input.

4.2.6 Configure JPEG IP Cameras

Menu IP cameras and encoders > Section JPEG IP cameras > Button Edit



In this menu, only those cameras from which JPEG images can be accessed via the HTTP or TFTP protocol can be configured. You can connect a maximum of 64 network devices (JPEG cameras and MPEG4/H.264 devices).

1	Address:	Enter the address (URL) of the camera and the command to
1	Address:	access the JPEG images.
		The following syntax must be applied:
		Bosch BVIP devices:
		http://IP-Adresse/snap.jpg?JpegSize=S (for QCIF)
		http://IP-Adresse/snap.jpg?JpegSize=M (for CIF)
		http://IP-Adresse/snap.jpg?JpegSize=L (for 2CIF)
		http://IP-Adresse/snap.jpg?JpegSize=XL (for 4CIF)
		For multi-channel devices, the channel must be selected as
		follows:
		http://IP-Adresse/snap.jpg? <i>JpegCam=2&</i> JpegSize=XL (e.g. for
		channel 2 and 4CIF)
		Bosch MegaPixel IP camera:
		http://IP-Adresse/image?res=full&x0=0&y0=0
		&x1=100%&y1=100%&quality=12&doublescan=0
		With HTTP, motion detection occurs via port [&mdn=Port
		number].
		tftp://IP-Adresse/
		image?res=half&x0=0&y0=0&x1=1600&y1=1200&quality=15
		With TFTP, the motion detection is retained in the image. It is
		not necessary to configure a port.
		Axis: http://IP-Adresse/jpg/image.jpg
		Mobotix: http://IP-Adresse/record/current.jpg
		Note:
		More information can be found in the installation documents
		of the relevant camera.
2	Display	Click the button to check whether the entered URL and
		command are correct. The camera image will appear if they
		are correct.
3	Configure	After the button is clicked, the configuration of the selected
		JPEG device is displayed in a browser window.
4	Name:	Enter the name of the camera.
5	Max. no. of images	Activate this check box and enter the number of images per
	per sec.:	second to be displayed. This affects the network load when
	per sec	viewing live images from the cameras.
		Note:
		The maximum number of displayed images depends on the
		camera type and the parameters set for the camera (e.g.:
		resolution, compression setting).
6	User name:	Enter the camera user name and password needed for log-on
-	Decemend	(e.g. Mobotix banking camera).
	Password:	
7	Motion camera	If the IP camera is a motion detection camera, the Bosch
		Recording Station can be controlled when the sensor
		technology is triggered. Activate the check box for this.
	Port:	Enter the port to which the camera sends motion information
		(depending on the camera model).
		,

	On command:	Enter the command the camera issues when motion
		detection is triggered (depending on the camera model).
		Note:
		The command can be found in the handbook for the camera
		used.
	Off command:	Enter the command the camera issues when motion
		detection is cancelled (depending on the camera model).
8	ОК	Saves your input.

Note:

When configuring JPEG IP cameras, the following limits must be observed:

Image size and resolution limits:

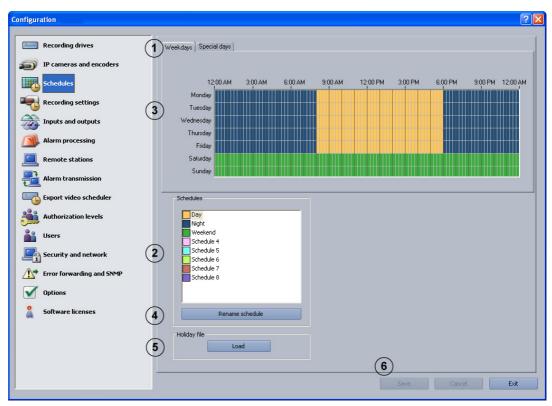
- A single JPEG image should not exceed 100 kB. The maximum displayable image size is 1 MB.
- The image resolution must be in the aspect ratio 4:3 (e.g. 2048 x 1536).
- The maximum resolution of the displayed images is limited to 2048 x 1536.

Recording settings limits:

- The sum of transmission images from IP cameras is limited to 900 images per second.
- The recording rate is limited to 50 Mbit/second (= 6.25 MB/second).

4.3 Configuring Time Profiles

Menu Schedules



Assignment of the time profiles is done with the mouse cursor in a graphical time planner. There are 8 time profiles available. These time profiles can be assigned to any day of the week, individual holidays and special days. The time profiles are displayed in different colors.

1	Weekdays	Click on the corresponding tab.
	Special days	Note:
	Holidays	 You can select any day of the year in the tab labeled
		Special days.
		– The Holidays tab is not displayed until the holiday file
		Holidays.xml. has loaded.
2	Schedules	Select the time period to which you want to assign a day. A
		time span can be assigned to only one time profile.
3	Graphical time planner	Move the mouse cursor into the graphical time planner.
		Clicking with the left mouse button marks a cell. Dragging up
		a square while pressing the left mouse button marks a time
		profile. All selected cells take the color of the selected time
		profile. To edit selected cells in the graphical time planner,
		select another time profile and overwrite the cell already
		selected.
4	Rename schedule	Changing the name. Select a schedule name and click on the
		button. Enter a new name and confirm the entry by pressing
		Enter.

5	Holiday file - Load	Loads the holiday file Holidays.xml. The holiday file
		contains state-specific holidays. The holiday file is editable
		and must be compiled individually for each state.
		In the tab labeled Holidays , click on Add and select the
		holidays.
6	Save	Saves your input.
1		

36

4.4 Configure Recording Settings

You can configure the recording settings for MPEG4/H.264 IP cameras and JPEG IP cameras in this dialog box.

4.4.1 Configure Recording Settings for MPEG4/H.264 IP Cameras

Menu Recording settings > Tab MPEG4/H.264 IP cameras



You can configure the recording settings for the MPEG4/H.264 IP camera in this dialog box.

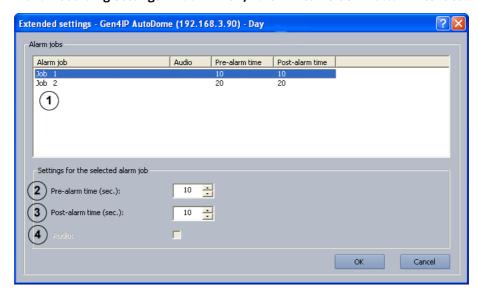
1	Day - Night - Weekend	All configured time profiles are displayed as tabs.
		Select the time profile for which the settings should apply.
		Note:
		The program only displays the time profiles that were
		configured in the Schedules menu.
2	MPEG/H.264 IP	Select the tab. The list field in the tab displays every
	cameras	MPEG4/H.264 IP camera.
3	In the camera list field	Select the camera for which you want to edit the settings.
		Note:
		It is possible to select multiple cameras.
4	Pre-alarm recording	Perform the settings for pre-alarm recording.
	Stream:	Select the stream for the MPEG4/H.264 device (Stream 1
		or Stream 2).
	Audio:	Activate this check box if audio is also to be recorded.
		Note:
		Audio can only be selected if under IP cameras and
		encoders > MPEG4/H.264 IP cameras > Edit > General
		settings the Activate audio input check box is selected.

38 en | Default configuration Bosch Recording Station

	n	
	Pre-alarm time [secs.]:	Select the pre-alarm time for the alarm and motion
		recording.
		Note:
		The maximum pre-alarm time is 1800 seconds. The pre-
		alarm time depends on the recording rate of the MPEG4/
		H.264 device's pre-alarm recording. A maximum of
		3600 images can be recorded for each pre-alarm and by
		each camera.
5	Alarm recording	Perform the settings for alarm recording.
	Addiniversity	
	Stream:	Select the stream for the MPEG4/H.264 device (Stream 1
		or Stream 2).
	Audio:	Activate this check box if audio is also to be recorded.
	Post-alarm time [secs.]:	Enter the post-alarm time.
		Note:
		The maximum post-alarm time is 999 seconds. The default
		setting is 0 seconds.
6	Continuous recording	Perform the settings for continuous recording.
	_	
	Stream:	Select the stream for the MPEG4/H.264 device (Stream 1
		or Stream 2).
	Audio:	Activate this check box if audio is also to be recorded.
7	Delete old video	Activate this check box to automatically delete data after a
		specified number of days.
	Older than [days]:	Enter the number of days after which data should
		automatically be deleted.
		Example : 3 means that all data older than 3 days is
		automatically deleted.
	Delete protected data	Check box is activated: Protected data is automatically
		deleted after a specified number of days.
		Check box is not activated: Protected data is not
		automatically deleted.
0	Extended	
8	Extended	Click on the button to process the alarm jobs for the
		selected camera.
9	Default settings	Click the button to see the default settings.
10	Copy settings to other	Copies all tabs from the selected time profile with all the
	schedules	settings they contain into other time profiles.
		Click on the button. A dialog box opens where you can
		select the time profiles.
11	Save	Saves your input.
- -		

4.4.2 Enhanced settings of the MPEG4/H.264 IP cameras

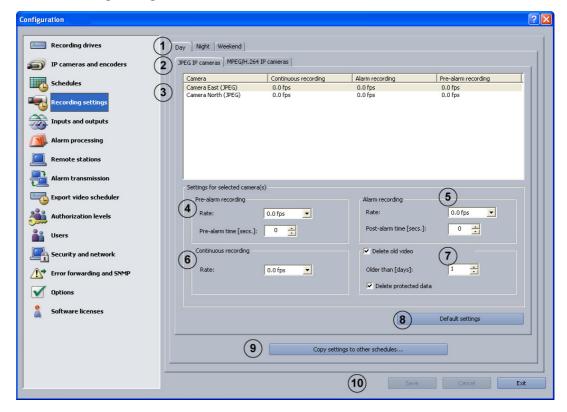
Menu Recording settings > Tab MPEG4/H.264 IP cameras > Button Extended...



In this dialog box, you can change the settings for the alarm job.

4.4.3 Configure Recording Settings of JPEG IP Cameras

Menu Recording settings > Tab JPEG IP cameras



You can configure the recording settings for the JPEG IP camera in this dialog box.

1	Day - Night - Weekend	All configured time profiles are displayed as tabs.
		Select the tab you want to apply the settings to.
		Note:
		The program only displays the time profiles that were
		configured in the Schedules menu.
2	JPEG IP cameras	Select the tab. All JPEG IP cameras are displayed in the list
		field underneath.
3	In the camera list field	Select the camera for which you want to edit the settings.
		Note:
		It is possible to select multiple cameras.
4	Pre-alarm recording	Perform the settings for pre-alarm recording.
	Rate:	Select the recording rate.
		Note:
		The actual recording rate depends on the camera type and
		the parameters set for the camera (e.g.: resolution,
		compression setting). The average setting is 4 - 6 images per
		second.

40

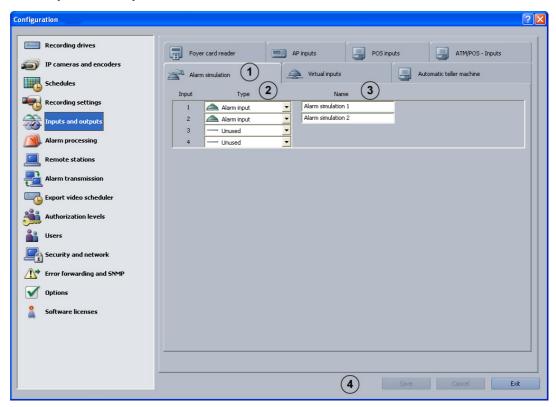
	Pre-alarm time	Select the pre-alarm time for the alarm and motion recording.
	[secs.]:	Note:
	[secs.]:	The maximum pre-alarm time is 1800 seconds. The pre-alarm time depends on the recording rate of the pre-alarm recording. A maximum of 3600 images can be recorded for each pre-alarm and by each camera. Example: 1 image/second = 1800 seconds, 2 images/second= 1800 seconds, 4 images/second = 900 seconds, 5 images/second = 720 seconds etc.
5	Alarm recording	Perform the settings for alarm recording.
	Rate:	Select the recording rate.
		Note:
		The actual recording rate depends on the camera type and
		the parameters set for the camera (e.g.: resolution,
		compression setting).
	Post-alarm time	Enter the post-alarm time.
	[secs.]:	Note:
		The maximum post-alarm time is 999 seconds. The default
		setting is 0 seconds.
6	Continuous recording	Perform the settings for continuous recording.
	Rate:	Select the recording rate.
		Note:
		The actual recording rate depends on the camera type and
		the parameters set for the camera (e.g.: resolution,
		compression setting).
7	Delete old video	Activate this check box to automatically delete data after a
		specified number of days.
	Older than [days]:	Enter the number of days after which data should
		automatically be deleted.
		Example : 3 means that all data older than 3 days is
		automatically deleted.
	Delete protected data	Check box is activated: Protected data is automatically
		deleted after a specified number of days.
		Check box is not activated: protected data is not
		automatically deleted.
8	Default settings	Click the button to see the default settings.
9	Copy settings to other	Copies all tabs from the selected time profile with all the
	schedules	settings they contain into other time profiles.
		Click on the button. A dialog box opens where you can select
		the time profiles.
10	Save	Saves your input.

4.5 **Configure Inputs and Outputs**

You can configure the inputs and outputs in these dialog boxes.

4.5.1 **Configure Alarm Simulation**

Menu Inputs and outputs > Tab Alarm simulation

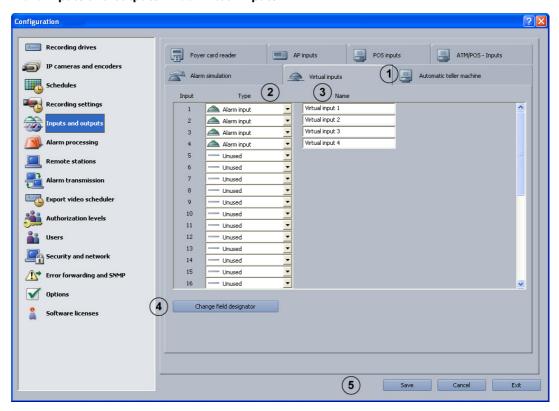


You can configure 4 inputs for triggering user alarms on the user interface in this dialog box.

1	Alarm simulation	Click on the tab.
2	Туре	Select whether or not an input should be activated.
	Alarm input	Input is to be used for alarm simulation.
	unused	Input is not to be used for alarm simulation.
3	Name	Enter the names.
4	Save	Saves your input.

4.5.2 Configure Virtual Inputs

Menu Inputs and outputs > Tab Virtual inputs



Virtual inputs are inputs that are controlled via the browser interface or by a piece of software. They offer the same functionality as the other inputs in the system.

The virtual inputs can be used to execute jobs, for example for alarm transmission or video export. There are 32 virtual inputs available.

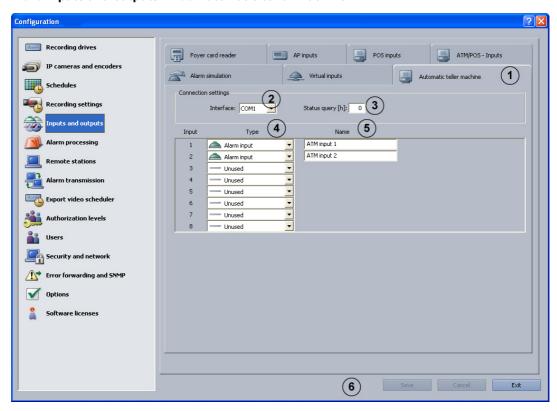
1	Virtual inputs	Click on the tab.
2	Туре	Select whether or not a virtual input is to be configured.
	Alarm input	Input is to be used as virtual input.
	unused 🔻	Input is not to be used as virtual input.
3	Name	Enter the names.
4	Change field designator	Click on the button. A dialog box opens. Edit the designation of the additional data as necessary.
5	Save	Saves your input.

Note:

It is not necessary to log on to access the virtual inputs interface.

4.5.3 **Configure Automatic Teller Machines**

Menu Inputs and outputs > Tab Automatic teller machine



You can connect a maximum of 4 automatic teller machines with two inputs each to the Bosch Recording Station.

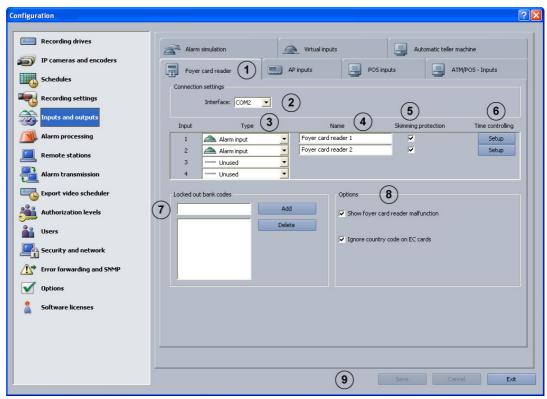
1	Automatic teller machine	Click on the tab.
2	Interface:	Select the interface.
3	Status query [h]:	After this time interval, the system checks repeatedly whether the connected automatic teller machines have completed a transaction. Enter the time in hours. Example: Entering 2 would mean that a check is run every 2 hours. Entering 0 would mean that no check is run. Note: If the system does not display a transaction, an error message is sent. If the connection between the Bosch Recording Station and the automatic teller machine is faulty, another error message is sent.
4	Туре	Select whether or not an input is to be configured.
	Alarm input	The input is assessed.
	unused	The input is not assessed.

		Assignment of inputs:
		Input 1 + 2 = automatic teller machine 1
		Input 3 + 4 = automatic teller machine 2
		Input 5 + 6 = automatic teller machine 3
		Input 7 + 8 = automatic teller machine 4
		Inputs 1, 3, 5, 7 normally activate the portrait camera
		and inputs 2, 4, 6, 8 the cash dispenser camera.
5	Name	Enter the names. The name can be freely selected.
6	Save	Saves your input.

4.5.4 Configure Foyer Card Reader

46

Menu Inputs and outputs > Tab Foyer card reader



You can connect a maximum of 4 foyer card readers to the Bosch Recording Station. Each foyer card reader uses one input. Anti-skimming is possible on the foyer card reader.

Note:

You may not configure more foyer card readers than the number connected.

1	Foyer card reader	Click on the tab.
2	Interface:	Select the interface.
3	Туре	Select whether or not an input is to be configured.
	Alarm input	A foyer card reader is connected to the input.
	unused	No foyer card reader is connected to the input.
4	Name	Enter the names. The name can be freely selected.
5	Skimming protection	This function recognizes whether there are any alien objects on the foyer card reader that may be able to read the data from an EC card without authorization. Note:
		 If this function is activated, the skimming input is available as a trigger. If anything triggers this, the event is recorded in the logbook. If the Show foyer card reader malfunction function is also activated, a message appears in the user interface when a trigger is activated.

	I	
6	Time controlling - Setup	Click the button if you want to enter a time control. A dialog box opens allowing you to select the default setting for the foyer card reader (open, automatic, closed) and the time profile (see also Section 4.5.5 Configure foyer card reader time control).
7	Locked out bank codes	You have the possibility of locking out specific bank sort codes, i.e. the EC cards with the lock characteristics entered here do not have access authorization. Access is denied by the foyer card reader. The default setting of the foyer card reader must be set to: Foyer card reader automatic:
	Add	Enter the bank routing code to be locked into the text field and click on the button. After the entry, the bank routing code is held in the list field. Note: When making an entry, the use of wild cards (? or *) in any combination is allowed. ?: The exact position of the question mark may indicate any or no character. *: The exact position of the asterisk may indicate a sequence (one or more characters) of any or no characters (exception: * on its own means that all bank sort codes are locked out).
	Delete	Select the entry in the list field and click on the button. The bank routing code is deleted from the list field.
8	Show foyer card reader malfunction	A message is displayed in the user interface if there is a fault in the foyer card reader. If the Skimming protection function is also activated, a message also appears in the event of a skimming alarm. Note: If anything triggers this, the event is recorded in the logbook.
	Ignore country code on EC cards	Does not analyze credit card data used to identify which country a card is from. Access is possible for cards with a different country code.
9	Save	Saves your input.

4.5.5 **Configure foyer card reader time control**

Menu Inputs and outputs > Tab Foyer card reader > Button Setup

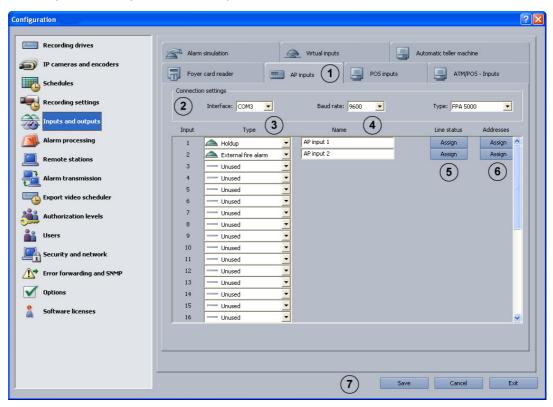


Perform the settings for time control.

1	Foyer card reader	Activate the check box.
	time controlled	
2	Default setting:	Click the down arrow in the list field and select which default
		setting the foyer card reader should have.
3		In the previous point, you specified the default setting for the
		foyer card reader. If the default setting is to be limited in
		time, activate one or more of the following characteristics, as
		required.
	Foyer card reader	Foyer always open.
	open:	
	Foyer card reader	Access is only possible with an EC card or a credit card. EC
	automatic:	cards from specific banks can be locked out.
	Foyer card reader	Foyer always closed.
	closed:	
4	Schedule:	Select the time profile within which the time limitation
		should apply (see also Section 4.3 Configuring Time Profiles).
5	ок	Saves your input.

4.5.6 Configure Inputs from Alarm Panels (AP)

Menu Inputs and outputs > Tab AP inputs



If an alarm panel is connected serially, a maximum of 32 inputs that can cause an alarm to be triggered in the system can be specified.

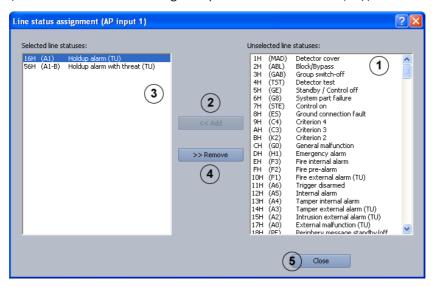
As standard, every input has line statuses assigned that can be modified in LSN alarm panels for the specific project. In addition, alarm panel addresses can be assigned to each input.

		T
1	AP inputs	Click on the tab.
2	Connection settings	
	Interface:	Select the interface.
	Baud rate:	Select the Baud rate.
	Туре:	Select the alarm panel type.
3	Туре	Click the down arrow in the column and select the
		type of input.
	▲ Holdup	The input type, e.g. holdup, is activated.
	unused 🔻	The input type is not activated.
		Note:
		Each input has specific types of line statuses
		assigned as standard. This assignment can be
		changed for LSN alarm panels.
4	Name	Enter the names.

5	Line status - Assign	Click on the button. A dialog box opens allowing you to view and edit the default assignment of the line statuses (see also Section 4.5.7 Assign Line Statuses
		to Inputs (Not for Bosch G Series)).
		Note:
		Only possible for LSN alarm panels.
6	Addresses - Assign	Click on the button. A dialog box opens allowing you
		to assign specific AP addresses to the input (see also
		Section 4.5.8 Assign Addresses to Inputs (Not for Bosch
		G Series) and Section 4.5.9 Assign Addresses to Inputs
		(Bosch G Series)).
7	Save	Saves your input.

4.5.7 Assign Line Statuses to Inputs (Not for Bosch G Series)

Menu Inputs and outputs > Tab AP inputs > Section Line status > Button Assign (see also Section 4.5.6 Configure Inputs from Alarm Panels (AP))



Assign alarm panel line statuses to the inputs.

Adding line statuses

1	Unselected line	Select the line status.
	statuses:	
2	<< Add	Click on the button. The line status is added to the Selected
		line statuses: list field.
5	Close	Finishes the procedure. Saves the entries.

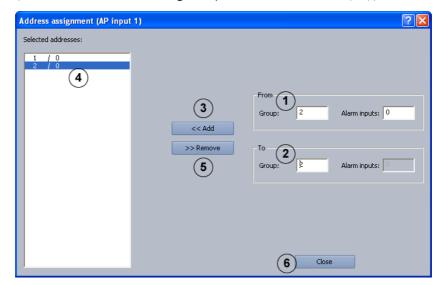
Removing line statuses

3	Selected line	Select the line status.
	statuses:	
4	>> Remove	Click on the button. The line status is removed from the
		Selected line statuses: list field.
5	Close	Finishes the procedure. Saves the entries.

50

4.5.8 Assign Addresses to Inputs (Not for Bosch G Series)

Menu Inputs and outputs > Tab AP inputs > Section Addresses > Button Assign (see also Section 4.5.6 Configure Inputs from Alarm Panels (AP))



Assign AP addresses (not Bosch G series) to the inputs.

Adding addresses

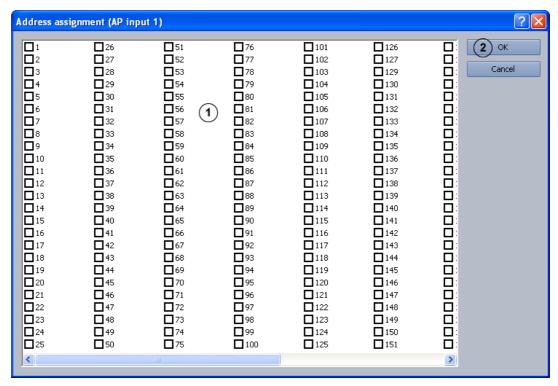
elected

Removing addresses

4	Selected addresses:	Select the addresses you wish to remove.
5	>> Remove	Click on the button. The addresses are removed from the
		Selected addresses: list field.
6	Close	Finishes the procedure. Saves the entries.

4.5.9 Assign Addresses to Inputs (Bosch G Series)

Menu Inputs and outputs > Tab AP inputs > Section Addresses > Button Assign (see also Section 4.5.6 Configure Inputs from Alarm Panels (AP))

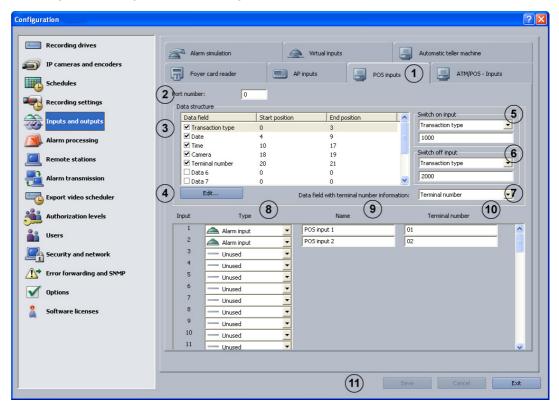


Assign AP addresses for Bosch G series to the inputs.

Ī	1	AP addresses	Activate the check boxes of the AP addresses you wish to	
			assign to the input.	
	2	ОК	Saves your input.	

4.5.10 Configure POS Inputs

Menu Inputs and outputs > Tab POS inputs



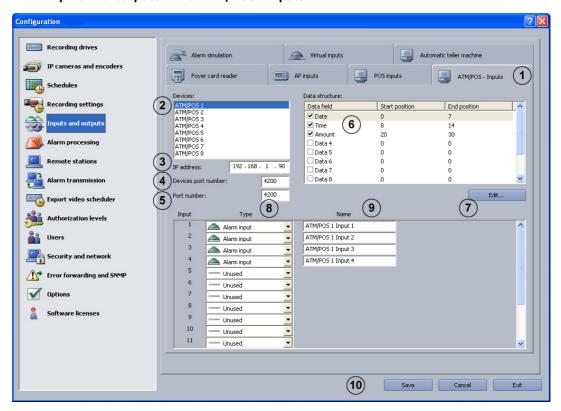
A POS server (POS = point of sale) is connected via the IP network (LAN). The IP address of the Bosch Recording Station must be configured in the POS server. A maximum of 64 POS inputs are available in the Bosch Recording Station. When activating defined transactions at the POS points, an image is automatically recorded.

1	POS inputs	Click on the tab.
2	Port number:	Enter the port number of the Bosch Recording Station to which the IP server sends data. Note: The port number in the Bosch Recording Station configuration must match the port number entered in the POS server.
3	Data structure	Shows the structure of the data stream flowing from the POS server to the Bosch Recording Station. It is possible to have a maximum of 10 data fields as distinguishing factors. A maximum of 100 characters are possible per data field.
4	Edit	Click on the button. A dialog box opens in which you can configure the type of data field and the corresponding start and end position in the data stream. Note: Mark in advance the row to be processed under Data structure.

5	Switch on input	Click on the arrow. The list of available data fields will
		be displayed. The list contains all data fields that are
		displayed under Data structure .
		Select the name of the data field and, in the text field
		underneath, enter the value that triggers an image
		recording in the data stream of the POS server.
		Where there are several values, these must be
		separated by semi-colons.
6	Switch off input	Click on the arrow. The list of available data fields will
		be displayed.
		Select the name of the data field and, in the text field
		underneath, enter the value that ends an image
		recording in the data stream of the POS server.
		Where there are several values, these must be
		separated by semi-colons.
7	Data field with terminal	Click on the arrow. The list of available data fields will
	number information:	be displayed.
		Select the name of the data field which describes the
		terminal number (e.g. cashpoint number).
8	Туре	Select whether or not an input should be activated.
	Alarm input	Input should be used to trigger image recording.
	unused	Input should not be used to trigger image recording.
9	Name	Place the cursor in the column and enter the name of
		the input.
10	Terminal number	Enter the number of the terminal assigned to the POS
		input of the Bosch Recording Station.
11	Save	Saves your input.

4.5.11 Configure ATM/POS Inputs

Menu Inputs and outputs > Tab ATM/POS - Inputs



The ATM/POS-Bridge is used to connect cashpoint systems and ATMs. A maximum of 8 ATM/POS-Bridges each with 4 automatic teller machines can be connected to the Bosch Recording Station. The video is connected via the IP network (LAN).

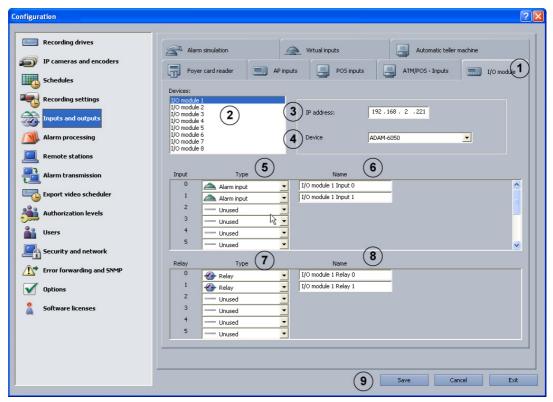
1	ATM/POS - Inputs	Click on the tab.
2	Devices:	Select the device.
3	IP address:	Enter the IP address of the ATM/POS-Bridge.
4	Devices port number:	Enter the port number of the ATM/POS-Bridge.
5	Port number:	Enter the port number of the Bosch Recording
		Station.
6	Data structure:	Shows the structure of the data stream flowing from the ATM/POS-Bridge to the Bosch Recording Station. It is possible to have a maximum of 10 data fields as distinguishing factors. The size of the data stream is limited to 7 kilobytes.
		Note: Each of the individual data fields can be activated by
		selecting the relevant check box. If none of the check boxes are selected, the entire data stream is written in the first data field.

7	Edit	Click on the button. A dialog box opens in which you
		can configure the type of data field and the
		corresponding start and end position in the data
		stream.
		Note:
		Mark in advance the row to be processed under Data
		structure:.
8	Туре	Select whether or not an input should be activated.
		Note:
		Input 1 = ATM/POS device 1
		Input 2 = ATM/POS device 2
		Input 3 = ATM/POS device 3
		Input 4 = ATM/POS device 4
	Alarm input	Input should be used to trigger image recording.
	unused	Input should not be used to trigger image recording.
9	Name	Place the cursor in the column and enter the name of
		the input.
		Note:
10	Save	Saves your input.

56

4.5.12 Configure I/O module

Menu Inputs and outputs > I/O Module tab



A maximum of 8 I/O modules can be activated on a Bosch Recording Station. The following I/O modules can be activated:

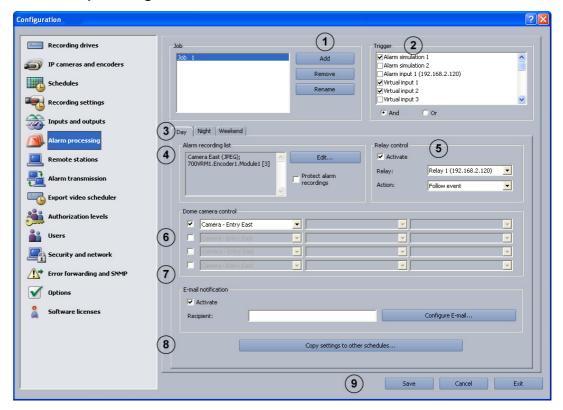
- ADAM-6017 (0 inputs, 2 relays)
- ADAM-6018 (0 inputs, 8 relays)
- ADAM-6022 (2 inputs, 2 relays)
- ADAM-6024 (2 inputs, 2 relays)
- ADAM-6050 (12 inputs, 6 relays)
- ADAM-6050-W (12 inputs, 6 relays)
- ADAM-6051 (12 inputs, 2 relays)
- ADAM-6051-W (12 inputs, 2 relays)
- ADAM-6052 (8 inputs, 8 relays)
- ADAM-6055 (18 inputs, 0 relays)
- ADAM-6060 (6 inputs, 6 relays)
- ADAM-6060-W (6 inputs, 6 relays)
- ADAM-6066 (6 inputs, 6 relays)

1	I/O module	Click on the tab.
2	Devices:	Select the I/O module.
3	IP address:	Enter the IP address of the I/O module.
4	Device type:	Select the type.
5	Туре	Select whether or not an input should be activated.
	Alarm input	Input should be used to trigger image recording.
	unused	Input should not be used to trigger image recording.

6	Name	Enter the name of the input.
7	Туре	Select whether or not an input should be activated.
	Relay	Relay should be used to trigger image recording.
	unused 🔻	Relay should not be used to trigger image recording.
8	Name	Enter the name of the relay.
9	Save	Saves your input.

4.6 Configure Alarm Processing

Menu Alarm processing



In this dialog box you can specify so-called jobs for every time profile. Jobs are activities that are started by inputs and cameras with motion detection or a reference image check function. The following actions are possible:

- Starting an alarm recording
- Controlling a relay output
- Controlling a maximum of four dome cameras and pan/tilt cameras
- E-mail notification

1	Job	
	Add	Adds a new job. The name of the new job is sequentially
		numbered and can be renamed.
	Remove	Removes a job. To do so, select the job.
	Rename	The name of the job can be changed. To do so, select the job.
2	Trigger	In the list field, select the inputs or cameras with motion detection or a reference image check function whose triggering starts the job. The following are displayed as triggers: All types of inputs JPEG IP cameras and MPEG4/H.264 IP cameras with motion detection/a reference image check function. Skimming protection of foyer card reader
	And	All selected inputs and cameras must trigger in order to start the job.

60 en | Default configuration Bosch Recording Station

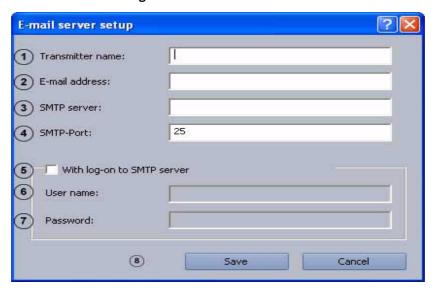
	0	Only one input or one comore must be great in and a to the state
	Or	Only one input or one camera must trigger in order to start the job.
4	Day - Night - Weekend Alarm recording list Edit	Select the time profile. The job is assigned to this time profile. Note: The program only displays the time profiles that were configured in the Schedules menu. Note: Using the Copy settings to other schedules button, it is possible to copy jobs to other time profiles quickly. The inputs or cameras selected under Trigger trigger an alarm recording for the cameras named in the list. Click on the button. A dialog box opens. Select the cameras
		for which alarm recording should take place.
	Protect alarm recordings	Activate the check box. The alarm recordings are protected against overwriting (including pre-alarm images). Note: Protected data is only deleted after a certain number of days if in the Recording settings menu, the Delete old video and Delete protected data options are activated. It is also possible to manually delete in the user interface.
5	Relay control	Specify the relay that is to be controlled.
	Activate	Activates the relay to be controlled.
	Relay:	Select the relay to be controlled.
	Action:	 Select the relay behavior. Relay behavior: Start of event: At the start of an event, the relay switches for one second. End of event: At the end of an event, the relay switches for one second. Follow event: The relay switches at the beginning of the event, maintains this status during the event and returns to its original status at the end of the event. Follow recording: The relay switches at the start of the event and only returns to its original status after the end of alarm recording (including the post-alarm time).
6	Dome camera control	A job can control a maximum of 4 dome cameras and pan/tilt cameras. Activate the check box of the line concerned. Then select the camera to be controlled in the list field and a saved position or a command. Note: Only different dome cameras and pan/tilt cameras can be controlled. The saved positions and commands must be configured under IP cameras and encoders > Camera Add / Edit > Dome settings.

7	E-mail notification	Once a job has been triggered, a notification e-mail can be
		sent.
	Activate	Activates the e-mail notification.
	Recipient:	Enter the e-mail address of the recipient.
		Note:
		Where there are several e-mail addresses, these must be
		separated by semi-colons.
	Configure E-mail	The e-mail server setup opens after the button is clicked.
		During setup, enter data on the transmitter name, e-mail
		address, user name etc.
8	Copy settings to other	Copies the selected job with all the settings it contains to
	schedules	other time profiles.
		Select a job and click the button. A dialog box opens where
		you can select the time profiles.
9	Save	Saves your input.

4.7 Configure the E-mail Server Setup

Menu Alarm processing > Button Configure E-mail...

Menu Error forwarding and SNMP > Button E-mail server



E-mails can be sent regardless of whether or not you log on to the SMTP server.

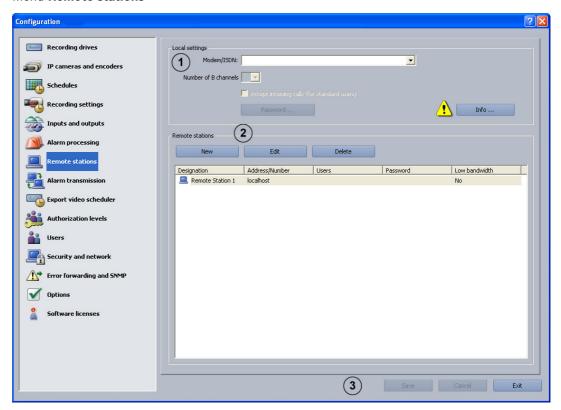
1	Transmitter name:	Enter the name of the sender. The name appears as the
		sender name for the e-mail recipient.
2	E-mail address:	Enter the e-mail address of the sender.
3	SMTP server:	Enter the name or the IP address of the SMTP servers (e-mail server).
4	SMTP-Port:	Enter the number of the SMTP ports (standard value = 25).
5	With log-on to SMTP	E-mails can only be sent when the sender is authorized to do
	server	so. The SMTP server checks the sender's authorization in this
		case.
6	User name:	Enter the user name for logging on to the SMTP server.
7	Password:	Enter the password for logging on to the SMTP server.
8	Save	Saves your input.

Note:

- For information on how to add an e-mail recipient for alarm processing, see
 Section 4.6 Configure Alarm Processing
- For information on how to add an e-mail recipient for error forwarding, see Section 4.14.1 Adding a Recipient/Editing Recipient Data

4.8 Configure Remote Stations

Menu Remote stations



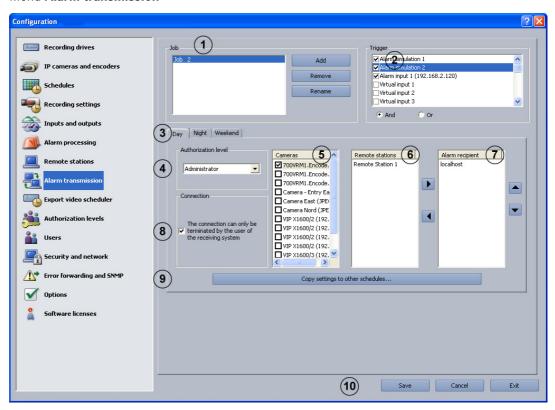
In this dialog box, you determine the remote stations for your own workstation (local computer) so that you can connect to these remote stations later in the configuration process.

1	Local settings	Edit the following settings for your own workstation.
	Modem/ISDN:	Select the modem or ISDN card.
		Note:
		To configure a modem connection, a RAS-capable modem
		must be connected and an RAS service installed.
	Number of B channels	Enter the number of B channels.
	Accept incoming calls	Incoming calls may be accepted by standard users.
	(for standard users)	
	Password	Enter the password that allows remote stations to be dialed
		into.
	Info	If no RAS capable modem is connected or RAS service
	11110	If no that capable modell is connected of that service
		installed, a notes icon and a button with additional
		•
2	Remote stations	installed, a notes icon and a button with additional
2		installed, a notes icon and a button with additional information appears.
2		installed, a notes icon and a button with additional information appears. You can create new remote stations here. Existing remote
2		installed, a notes icon and a button with additional information appears. You can create new remote stations here. Existing remote stations are displayed in the list field.
2		installed, a notes icon and a button with additional information appears. You can create new remote stations here. Existing remote stations are displayed in the list field. Note: If the remote stations are configured to do so, the Low

	Edit	Data on existing remote stations can be edited. Select the remote station from the overview in the lower part
		of the dialog box and click on the button.
	Delete	Deletes the connection to a remote station. Select the remote stations that you want to delete from the overview in the lower part of the dialog box and click on the button.
3	Save	Saves your input.

4.9 Configure alarm transmission

Menu Alarm transmission



In this dialog box you can specify "jobs" for alarm transmissions. Jobs are activities that are started by inputs and cameras with motion detection or a reference image check function. In the event of an alarm, a connection is established from the station generating the alarm to a configured remote station.

1	Job	
	Add	Adds a new job. The name of the new job is sequentially
		numbered and can be renamed.
	Remove	Removes a job. To do so, select the job.
	Rename	The name of the job can be changed. To do so, select the job.
2	Trigger	In the list field, select the inputs or cameras with motion
		detection or a reference image check function whose
		triggering starts the job.
		The following are displayed as triggers:
		 All types of inputs
		 JPEG IP cameras and MPEG4/H.264 IP cameras with
		motion detection/a reference image check function.
		 Skimming protection of foyer card reader
		Note:
		The triggers for cameras with motion detection are only
		displayed after the camera has been configured (see
		Section 4.2.6 Configure JPEG IP Cameras and
		Section 4.2.3 Configure MPEG4/H.264 IP Cameras

	And	All selected inputs and cameras must trigger in order to start
		the job.
	Or	Only one input or one camera must trigger in order to start
		the job.
3	Day - Night - Weekend	Select the time profile. The job is assigned to this time
		profile.
		Note:
		The program only displays the time profiles that were
		configured in the Schedules menu.
4	Authorization level	Select the authorization level.
		Note:
		The name of the authorization level and its connection
		password must match in the local station and in the remote
		station to which the alarm is transmitted. However, the
		individual enabling of authorization levels, for example
		enabled cameras, relays etc., may be different. Your remote
		station authorization level will be assigned to you when you
		dial in to the remote station.
		Activate the authorization to transfer alarms in the
		Authorization levels menu.
5	Cameras	Select the cameras from which images are to be transmitted
		to the remote station.
6	Remote stations:	The list field contains all remote stations known in the
		system
		system.
		Select the remote station and, if necessary, one or more
		Select the remote station and, if necessary, one or more replacement remote stations to which the alarm is to be
		Select the remote station and, if necessary, one or more replacement remote stations to which the alarm is to be transmitted and click on . The remote station is added to
7	Alarm recipient	Select the remote station and, if necessary, one or more replacement remote stations to which the alarm is to be transmitted and click on . The remote station is added to the Alarm recipient list field.
7	Alarm recipient	Select the remote station and, if necessary, one or more replacement remote stations to which the alarm is to be transmitted and click on . The remote station is added to the Alarm recipient list field. The list field contains the remote stations to which an alarm
7	Alarm recipient	Select the remote station and, if necessary, one or more replacement remote stations to which the alarm is to be transmitted and click on . The remote station is added to the Alarm recipient list field.
7	Alarm recipient	Select the remote station and, if necessary, one or more replacement remote stations to which the alarm is to be transmitted and click on the Alarm recipient list field. The list field contains the remote stations to which an alarm transmission is to be made. Note:
7	Alarm recipient	Select the remote station and, if necessary, one or more replacement remote stations to which the alarm is to be transmitted and click on . The remote station is added to the Alarm recipient list field. The list field contains the remote stations to which an alarm transmission is to be made. Note: The remote stations to be called are worked through by the
7	Alarm recipient	Select the remote station and, if necessary, one or more replacement remote stations to which the alarm is to be transmitted and click on . The remote station is added to the Alarm recipient list field. The list field contains the remote stations to which an alarm transmission is to be made. Note: The remote stations to be called are worked through by the system from top to bottom. This means that the remote
7	Alarm recipient	Select the remote station and, if necessary, one or more replacement remote stations to which the alarm is to be transmitted and click on . The remote station is added to the Alarm recipient list field. The list field contains the remote stations to which an alarm transmission is to be made. Note: The remote stations to be called are worked through by the system from top to bottom. This means that the remote station to be dialed first must be at the top of the list.
7	Alarm recipient	Select the remote station and, if necessary, one or more replacement remote stations to which the alarm is to be transmitted and click on . The remote station is added to the Alarm recipient list field. The list field contains the remote stations to which an alarm transmission is to be made. Note: The remote stations to be called are worked through by the system from top to bottom. This means that the remote
7	Alarm recipient	Select the remote station and, if necessary, one or more replacement remote stations to which the alarm is to be transmitted and click on . The remote station is added to the Alarm recipient list field. The list field contains the remote stations to which an alarm transmission is to be made. Note: The remote stations to be called are worked through by the system from top to bottom. This means that the remote station to be dialed first must be at the top of the list. Replacement remote stations that are dialed into if a connection to the first remote station cannot be established
7	Alarm recipient	Select the remote station and, if necessary, one or more replacement remote stations to which the alarm is to be transmitted and click on . The remote station is added to the Alarm recipient list field. The list field contains the remote stations to which an alarm transmission is to be made. Note: The remote stations to be called are worked through by the system from top to bottom. This means that the remote station to be dialed first must be at the top of the list. Replacement remote stations that are dialed into if a
7	Alarm recipient	Select the remote station and, if necessary, one or more replacement remote stations to which the alarm is to be transmitted and click on . The remote station is added to the Alarm recipient list field. The list field contains the remote stations to which an alarm transmission is to be made. Note: The remote stations to be called are worked through by the system from top to bottom. This means that the remote station to be dialed first must be at the top of the list. Replacement remote stations that are dialed into if a connection to the first remote station cannot be established are listed beneath it. The sequence is specified with the
		Select the remote station and, if necessary, one or more replacement remote stations to which the alarm is to be transmitted and click on . The remote station is added to the Alarm recipient list field. The list field contains the remote stations to which an alarm transmission is to be made. Note: The remote stations to be called are worked through by the system from top to bottom. This means that the remote station to be dialed first must be at the top of the list. Replacement remote stations that are dialed into if a connection to the first remote station cannot be established are listed beneath it. The sequence is specified with the and buttons.
8	The connection can	Select the remote station and, if necessary, one or more replacement remote stations to which the alarm is to be transmitted and click on . The remote station is added to the Alarm recipient list field. The list field contains the remote stations to which an alarm transmission is to be made. Note: The remote stations to be called are worked through by the system from top to bottom. This means that the remote station to be dialed first must be at the top of the list. Replacement remote stations that are dialed into if a connection to the first remote station cannot be established are listed beneath it. The sequence is specified with the and buttons. Activate this check box if only the user of the receiving
	The connection can only be terminated by	Select the remote station and, if necessary, one or more replacement remote stations to which the alarm is to be transmitted and click on . The remote station is added to the Alarm recipient list field. The list field contains the remote stations to which an alarm transmission is to be made. Note: The remote stations to be called are worked through by the system from top to bottom. This means that the remote station to be dialed first must be at the top of the list. Replacement remote stations that are dialed into if a connection to the first remote station cannot be established are listed beneath it. The sequence is specified with the and buttons. Activate this check box if only the user of the receiving system is allowed to exit the connection.
	The connection can	Select the remote station and, if necessary, one or more replacement remote stations to which the alarm is to be transmitted and click on . The remote station is added to the Alarm recipient list field. The list field contains the remote stations to which an alarm transmission is to be made. Note: The remote stations to be called are worked through by the system from top to bottom. This means that the remote station to be dialed first must be at the top of the list. Replacement remote stations that are dialed into if a connection to the first remote station cannot be established are listed beneath it. The sequence is specified with the and buttons. Activate this check box if only the user of the receiving

9	Copy settings to other	Copies the selected job with all the settings it contains to
	schedules	other time profiles.
		Select a job and click the button. A dialog box opens where you can select the time profiles.
10	Save	Saves your input.

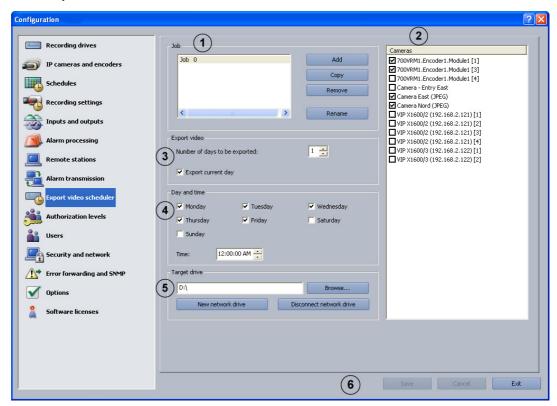
Note:

Multiple remote stations can be called up for one event. To do so, multiple jobs must be created.

68

4.10 Configure Export Video Scheduler

Menu Export video scheduler



In this dialog box you can specify "jobs" for the export video scheduler.

1	Job	
	Add	Adds a new job. The name of the new job is sequentially
		numbered and can be renamed.
	Сору	An existing job is copied. To do so, select the job.
	Remove	Removes a job. To do so, select the job.
	Rename	The name of the job can be changed. To do so, select the job.
		The name must not contain any special characters.
2	Cameras	Select the camera from which you want to export images.
3	Export video	A maximum of 160 GB per day can be exported via a 1-gigabit
		network.
		The following requirements must be adhered to during the
		export process:
		– In live mode, no more than 16 cameras are displayed.
		 No search available in the database.
		– No playback of recorded images.
	Number of days to be	Enter the number of past days to be exported.
	exported:	

	Export current day	Activate this check box if the current day is to be exported. Note:
		Images from the current day are only exported up to the point in time at which the job is executed. Images from the current
		day that have not yet been saved are not exported.
4	Day and time	Select the days on which export video should be carried out.
	Time:	Enter the time for export video.
5	Target drive	Select the target drive.
	Browse	Opens a dialog box for selecting the target drive.
	New network drive	Adds a new network drive.
	Disconnect network	Removes a network drive.
	drive	
6	Save	Saves your input.

Examples of an export video scheduler

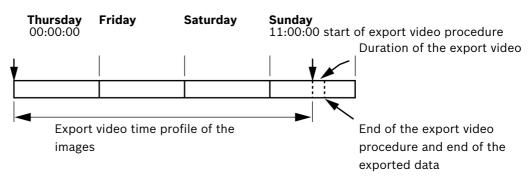
The examples show the export video time profile of the images.

Example 1:

Number of days to be exported:

Export current day
Sunday

Time: 11:00:00 (= start of export video)
Corresponding export video time profile:

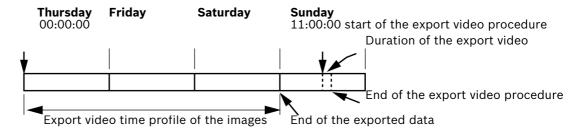


Example 2:

Number of days to be exported:

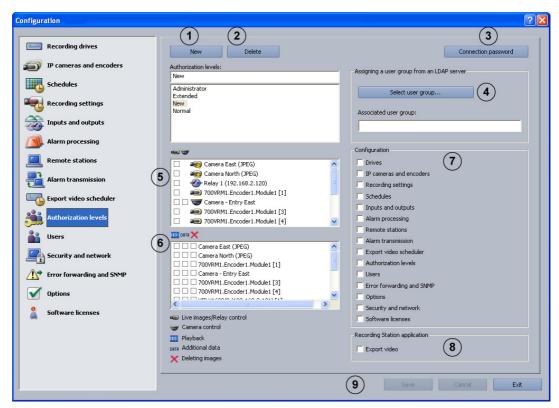
Export current day
Sunday

Time: 11:00:00 (= start of export video)
Corresponding export video time profile:



4.11 **Create Authorization Levels**

Menu Authorization levels



You can create different groups of authorizations in this menu if you have administrator rights. In these "authorization levels", you specify what authorizations the user has in the system.

1	New	Creates a new authorization level.
		Click on the button and enter the name in the input field.
		Note:
		The Administrator authorization level has complete
		authorization within the system.
		A user with the Extended authorization level may only
		create users who have the same or lower authorization
		than a user with the authorization level Normal .
2	Delete	Deletes an existing authorization level.
3	Connection password	A dialog box opens after the button is clicked on. Enter the
		current connection password.
		Note:
		To establish a connection, the connection password must
		match that of the remote station.
4	Select user group	A dialog box opens. Select a user group for the LDAP server.
		Once you have confirmed your selection the user group (on
		the LDAP server) will be assigned to the authorization level in
		the Bosch Recording Station.
		See also Section 4.11.1 Select LDAP Server User Group.

5		Activate the check boxes of elements (cameras, relays) that
3		should be available to users with this authorization level. For dome cameras and pan/tilt cameras, a second column with check boxes is displayed. Note:
		It is possible to select multiple elements. Then click on a check box. All check boxes in the relevant column are activated or deactivated. The check boxes in front of the elements mean:
		: In live mode, only those cameras and relays are shown to the user that have the check box activated.
		: In live mode, the user can only control those dome cameras and pan/tilt cameras with activated check boxes. Note: Bosch Recording Station only displays IP cameras that have
		already been configured. If new components are created, access to these by all access-authorized users must be configured retrospectively.
6	DRTR X	Select the access rights for the authorization level by activating the check box.
		Note:
		It is possible to select multiple elements. Then click on a check box. All check boxes in the relevant column are activated or deactivated. Here, the activated check boxes in front of the elements mean:
		: In playback mode, only those cameras that have the check box activated are shown to the user.
		ETTE: The saved images with additional data (e.g. date, time, ATM data) can be searched for, viewed, assessed, copied and printed out.
		: The saved images from the corresponding camera can be deleted.
7	Configuration	Determines the functions in the Bosch Recording Station configuration that members of this authorization level are permitted to carry out. Activate the check box next to the function in question.
8	Export video	Allows users with this authorization level to export video images.
		Note:
		For the three pre-defined authorization levels, the
		exportation of video images cannot be deactivated.
9	Save	Saves your input.

4.11.1 Select LDAP Server User Group

72

Menu Authorization levels > Button Select user group...

The use of LDAP (LDAP = Lightweight Directory Access Protocol) in conjunction with networked Bosch Recording Stations enables central information such as user groups, users, passwords, etc. to called up from one server for use in Bosch Recording Stations.

The advantage of this is as follows:

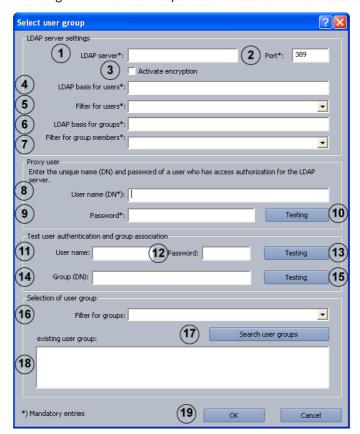
- Users available in the Bosch Recording Station network only need to be configured once on the LDAP server, rather than on every Bosch Recording Station.
- A user's authorization level can easily be changed by modifying the group association of the user. Group association is only changed on the LDAP server.
- It is only on the LDAP server that new users are added and previous users deleted.
- Local users are also available. They will continue to be created on each system.

Before you can make the settings below, the individual groups and their members have to be put on the LDAP server. These groups are then assigned to the authorization levels in the Bosch Recording Station. The configuration of the LDAP server is normally undertaken by the IT administrator, not the Bosch Recording Station administrator.

You will require the assistance of your IT administrator to make the following entries.

Note:

State each path as accurately as possible. This makes it quicker to search the LDAP server. The length of the search depends on the size of the database and can take several minutes.



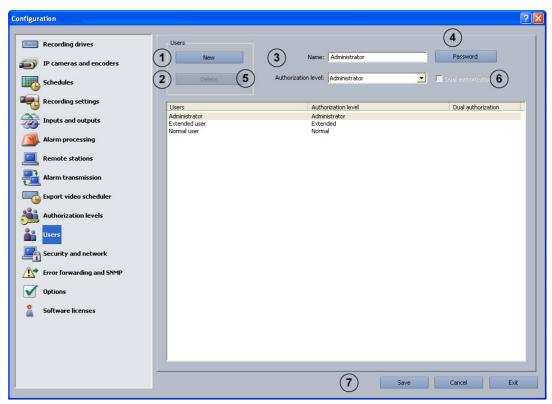
	LDAP server settings	
1	LDAP server*:	Name or IP address of the LDAP server.
2	Port*:	Port number of LDAP server (default: unencrypted = 389; encrypted = 636)
3	Activate encryption	For encrypted data transmission.

	1	(5)
4	LDAP basis for users*:	Unique name (DN = distinguished name) of LDAP path in
		which the search for the user should be performed.
		Example:
		Ask your IT administrator for the unique name (DN) of the
		LDAP basis.
		For example, you receive the following DN:
		CN=Users,DC=Security,DC=MyCompany,DC=com
5	Filter for users*:	Filter for searching for unique user name.
		Ask your IT administrator for the filter to find a user with the
		user ID xy in the LDAP server.
		For example, for user xy you receive the following filter:
		((sAMAccountName=xy)(userPrincipleName=xy))
		Replace xy with %username% and enter the filter.
6	LDAP basis for	Unique name of LDAP path in which the search for groups
0	groups*:	should take place.
		•
7	Filter for group	Filter used to search for group members of a group.
	members*:	Example:
		Ask your IT administrator for the filter to find user xy with his
		DN (e.g.
		CN=xy,CN=Users,DC=Security,DC=MyCompany,DC=com) in
		the LDAP server.
		For example, you receive the following path:
		(&(objectclass=group)(member=DN).
		Replace DN with %usernameDN% and enter the path.
	Proxy user	
8	User name (DN*):	Unique name of proxy user.
9	Password*:	Proxy user password.
10	Testing	Tests whether the proxy user has access to the LDAP server.
	Test user	
	authentication and	
	group association	
11	User name:	User login ID, e.g. userB. The DN should not be entered here.
12	Password:	User password.
13	Testing	Tests whether the user ID and password are correct.
14	Group (DN):	Unique group name. Used to check with which group the user
		is associated.
15	Testing	Tests the group association of the user.
	Selection of user	
	group	
16	Filter for groups:	Filter for finding user groups.
		Ask your IT administrator for the filter to find the user group
		in the LDAP server.
		For example, you receive the following filter:
		((objectclass=group)(objectclass=groupofuniquenames))
		Enter the filter.
		Littor the littor.

17	Search user groups	After you have clicked on it, all the user groups in the LDAP
		server that have the user as a member are searched.
18	existing user group:	The user groups are displayed in the list field. Select the user
		group you require.
19	ОК	The user group will be saved in the Authorization levels
		menu.

4.12 Configure users

Menu Users



To protect access to system components and data, operations can only be carried out by users who are logged on. Every user is assigned an authorization level for work that he has to carry out (see also Section 4.11 Create Authorization Levels).

Note:

- An unlimited number of users can be created.
- The user password only applies to the log-on procedure of a local user.
- The **Administrator** authorization can only be issued by administrators.



NOTICE!

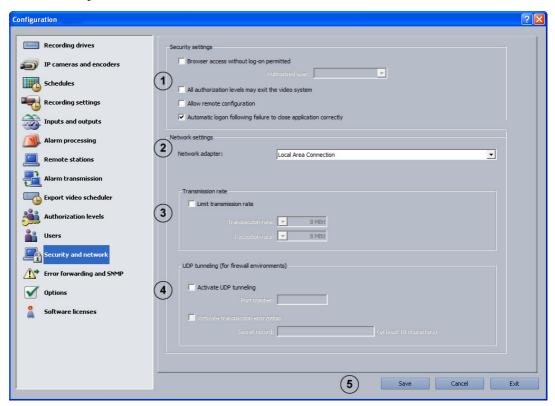
The user with the **Administrator** authorization level must be protected with a password. Ensure that this password is only known to those persons who are responsible for this system.

1	New	Creates a new user.
		Click New and enter a user name in the Name: input field.
2	Delete	Deletes an existing user name.
		In the overview in the lower part of the dialog box, select the
		user name that you want to delete and click Delete .
3	Name:	Name of the user. You can either enter a new user name here
		or change an existing one.
4	Password	Click the button and enter a password for the user. Confirm
		your entries.

5	Authorization level:	Click the down arrow in the list field and select an
		authorization level for the user.
6	Dual authorization	Activate this function if the user may only log on to the system together with another user.
7	Save	Saves your input.

4.13 Configure Security and Network Settings

Menu Security and network



In this dialog box you can specify security settings, such as browser access and network connection encryption.

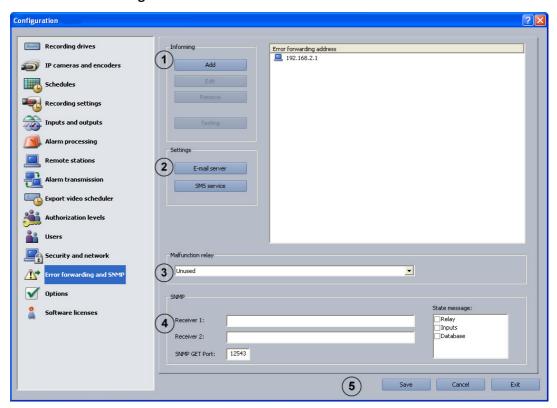
1	Security settings	
	Browser access	Activate this check box if access to the system via a browser
	without log-on	(without logging on) is to be permitted.
	permitted	Note:
		This function is only available for self-generated HTTP log-
		ons, not for standard log-ons.
	Authorized user:	Select the user in the list field whose authorization is to be
		used for the access.
	All authorization	Activate this check box if all users are to receive authorization
	levels may exit the	to exit the system.
	video system	Note: The default setting allows only the administrator to exit
		the system.
	Allow remote	Allows the remote configuration of the Bosch Recording
	configuration	Station. Activate the check box for this.
2	Network adapter:	Select the network adapter.
3	Transmission rate	
	Limit transmission	Activate this check box if you want to limit the transmission
	rate	rate.
	Transmission rate:	Select the transmission rate for connections between Bosch
		Recording Station and Bosch Recording Station and Browser.

	Reception rate:	Select the reception rate.
4	UDP tunneling (for	Enables a network connection between computers with
	firewall	Bosch Recording Stations via a single port.
	environments)	
	Activate UDP	Activate this check box if you want to permit a network
	tunneling	connection between Bosch Recording Stations via a fixed
		port.
	Port number:	Enter a port number that is not already used in the network.
		The port number on the Bosch Recording Station recorder
		and Bosch Recording Station receiver must be the same.
		Note:
		This port must be enabled in the network. The computer's
		Windows firewall must be deactivated.
	Activate transmission	Activate this check box if data transmission is to be
	encryption	encrypted.
	Secret record:	Enter a secret record of at least 10 digits. The secret record
		must be the same on both computers.
5	Save	Saves your input.

78

4.14 Configure Error Forwarding

Menu Error forwarding and SNMP



In the event of a malfunction, for example, external locations can be informed via network (= net send), SMS, e-mail or batch file. Error forwarding also applies to the malfunction relay.

1	Informing	Specify the locations to be informed here.
	Add	Opens a dialog box. You can add a new recipient who will be informed in the event of a malfunction. Note: The computer name must not contain any special characters. The recipient's messenger service must be started up.
	Edit	Opens a dialog box. Data on existing recipients can be edited. Select the recipient in the overview and click on the button.
	Remove	An existing recipient can be removed from the list of those to be informed. Select the recipient in the overview and click on the button.
	Testing	Test the connection to the recipient. Select the recipient in the overview and click on the button.
2	Settings	Perform the settings for the e-mail server and SMS service here.
	E-mail server	The e-mail server setup opens after the button is clicked. During setup, enter data on the transmitter name, e-mail address, user name etc.

80 en | Default configuration Bosch Recording Station

	SMS service	The SMS service configuration opens after the button is
		clicked. In the SMS configuration, enter data on the dialing
		parameters and modems, transmit options etc.
3	Malfunction relay	Choose a relay that will forward error messages.
4	SNMP	Bosch Recording Station sends camera, relay, input and
		database status messages to an SNMP (Simple Network
		Management Protocol) recipient via SNMP.
		See also Section 4.15.1 MIB List for SNMP and
		Section 4.15.2 Notification via SNMP
		Note:
		The option to send messages via relays, inputs and databases
		can be activated and deactivated. Camera messages cannot
		be deactivated.
	Receiver 1:	IP address or computer name of the 1st recipient.
	Receiver 2:	IP address or computer name of the 2nd recipient.
	SNMP GET Port:	Number of the port via which input, relay and camera
		statuses can be called up.
	State message:	Displays the statuses that trigger an SNMP message. Select
		the corresponding check box to activate.
5	Save	Saves your input.
1	1	I description of the second of

The following events lead to error forwarding:

- The camera does not deliver a video signal
- The logbook cannot be created or written
- The images could not be recorded by the database server
- Database server could not be started
- Hard disk failure: X drive deactivated, all X drives deactivated
- The hard disk is full (protected data)
- Internal database error
- Device could not be started
- Export video scheduler error
- Reference image check failed

4.14.1 Adding a Recipient/Editing Recipient Data

Menu Error forwarding and SNMP > Button Add or Button Edit

Here you enter the recipient who is to be informed if malfunctions arise.

Notification via the network:

Transmission type:	Select the transmission type Network (= net send).
Computer name/IP	Enter the computer name or IP address of the recipient.
address	Note:
	The computer name must not contain any special characters. The
	recipient's messenger service must be started up.
ОК	Saves your input.

Notification via e-mail:

Transmission type:	Select the transmission type E-mail .
E-mail address	Enter the e-mail address of the recipient.
ОК	Saves your input.

Notification via SMS:

Transmission type:	Select the transmission type SMS .
Telephone number	Enter the telephone number of the recipient.
OK	Saves your input.

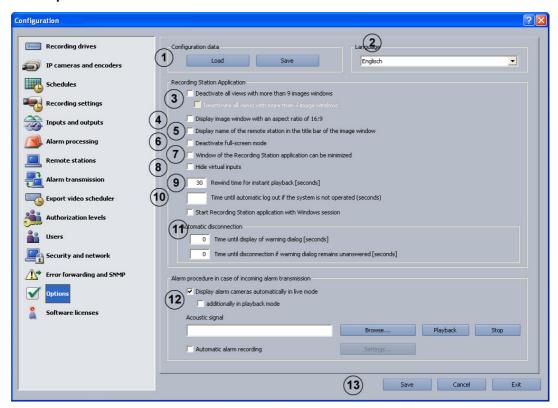
Notification via batch file:

Transmission type:	Select the transmission type Batch file .
Batch file	Enter the file name or click the adjacent button and select the file.
ОК	Saves your input.

82

4.15 Configure Options

Menu **Options**



In this dialog box you can edit optional settings, for example automatic disconnection, instant playback and acoustic signals.

1	Configuration data					
	Load	A new configuration can be loaded. The new configuration				
		overwrites the previous one.				
	Save	The configuration can be saved on a network drive or a data				
		carrier.				
		Note:				
		For security reasons, it is advisable to always save the				
		configuration on an external data carrier.				
2	Language	Select the language of the Bosch Recording Station. Changes				
		will not be applied until the Bosch Recording Station is				
		rebooted.				
3	Deactivate all views	Deactivates all buttons with more than 9 image windows on				
	with more than 9	the Bosch Recording Station user interface.				
	images windows					
	Deactivate all views	Deactivates all buttons with more than 4 image windows on				
	with more than 4	the Bosch Recording Station user interface.				
	image windows					
4	Display image window	Displays image windows in this aspect ratio in the user				
	with an aspect ratio of	interface.				
	16:9					

	Diamlassa mama of the	Displays the many of the ways to station in the title have of the					
5	Displays name of the	Displays the name of the remote station in the title bar of the					
	remote station in the	image window.					
	title bar of the image						
	window.						
6	Deactivate full-screen	Deactivates full screen mode on the Bosch Recording					
	mode	Station's user interface. This setting is useful if there is a					
		touch screen, as depending on the model it may not be					
		possible to return to full image mode.					
7	Window of the	Select this option if you want the user interface to be					
•	Recording Station	shrinkable. Changes will not be applied until the Bosch					
	application can be	Recording Station is rebooted.					
	minimized						
		Callanges virtual detectors in the user interfere					
8	Hide virtual inputs	Collapses virtual detectors in the user interface.					
9	Rewind time for	Enter the time here. A time between 2 seconds and					
	instant playback	300 seconds can be selected.					
	[seconds]	In Instant Playback, the images that have been saved in the					
		selected camera are played back with a time delay after the					
		live images. This means you will see the live image of the					
		camera and the image of this camera from about 30 seconds					
		ago. Playback is in real time.					
10	Time until automatic	Enter the time here after which automatic log-off should take					
	log-off if the system is	place if there are no operations on the system.					
	not in operation [in						
	seconds]						
44	_						
11	Start Recording	Starts the application automatically when Windows is					
	Station application	started.					
	with Windows session						
12	Automatic	This function is used to automatically disconnect the local					
	disconnection	live image and all ISDN and network connections (previously					
		connected independently by the Bosch Recording Station)					
		after a specific time.					
	Time until display of	Enter the time after which a warning dialog is to be					
	warning dialog	displayed.					
	[seconds]	Note:					
		The warning dialog allows you to either maintain the					
		connection or break it immediately.					
	Time until	Enter the time after which disconnection is to take place if					
	disconnection if	the warning dialog remains unanswered (a value of 0 means					
	warning dialog	that no disconnection will take place).					
	remains unanswered	that he alsoonheed will take place.					
	[seconds]						
4.0		Constitute have in a social to the Post of					
13	Alarm procedure in	Specifies how incoming alarms are displayed in live or					
	case of incoming	playback mode.					
	alarm transmission						
	Display alarm	When in live mode this option lists the cameras and remote					
	cameras automatically	stations in alarm mode in the device list when alarm					
	in live mode	notification is received. The images are displayed					
		automatically.					
	i e						

	additionally in	When in playback mode, the system switches to live mode if				
	playback mode	there is an alarm input. Cameras or remote stations in alarm				
		status are listed in the device list. The images are displayed				
		automatically.				
	Acoustic signal	Assign an acoustic signal (wav file) to incoming video alarms.				
		Enter the path and the file name or click Browse .				
	Playback	Plays the acoustic signal.				
	Stop	Ends playback of the acoustic signal.				
	Automatic alarm	Automatically records every incoming alarm on the Bosch				
	recording	Recording Station receiver.				
		Note:				
		The automatic alarm recording is displayed on the user				
		interface.				
	Settings	Opens a dialog box. Configure more precise details on				
		automatic alarm recording.				
		See also Section 4.15.3 Configure Automatic Alarm Recording				
13	Save	Saves your input.				

84

4.15.1 **MIB List for SNMP**

The MIB list (MIB = Management Information Base) shows the hierarchical structure of the object identifiers (OID) that are used to clearly identify individual objects.

MIB BRS 8.11 Prefix = 1.3.6.1.4.1.5318.2501.1.1.8

er inputs (AI)	Analog				.x .x	[.1 -		Camera_Ok = Camera_Video_Loss = Camera_Image_Check = Camera_Too_Noisy = Camera_Too_Dark = Camera_Too_Bright = 1
				.2				Camera_Image_Check = Camera_Too_Noisy = Camera_Too_Dark =
inputs (AI)					.x	[.1 -	64]	Camera_Too_Dark =
inputs (AI)				.2				
inputs (AI)				.2				Camera_Not_Present = 3
inputs (AI)								
				.1				Values InOutModules
	IΡ				.1 .x	[.1 –	16]	Input Off =
		Camera			.X	[.1 –	64]	Input_On =
			Al		.y	[.1 –	10]	Input_Error = Input Not Present =
inputs				.2	.X	[.1 –	.128]	<u> </u>
				.3	.X	[.1 -	8]	Values Database
panel				.4	.x	[.1 –	32]	
card reader				.5	. X	[.1 -	8]	DB_Ok = DB_Drive_Disabled =
								DB_Drive_Compressed =
3	Analog			.6	.1 .x	[.1 –	- 161	DB_No_data_Drives = DB_Database_Error =
	IP.				.2	E		DB_No_Diary =
		Camera			.X	[.1 –		DB_Server_Overloaded =
			Relay		.y	[.1 -	5]	DB_Server_Recovered =
ation input				7	.X	[.1 -	- 41	DB_Write_Queue_Full = DB Protected =
							.,	DB_Disk_Full = DB_Undefined =
nput				.8	.X	[.1 – .6	[4]	Foyer card reader
OS input				.9	.x	[.1 – .1	28]	
input				.1	0			1: Input of device 1 2: Input of device 2
	device input no.				.x			3: Input of device 3 4: Input of device 4
relay				.1	1	•		5: Skimming-Input of device6: Skimming-Input of device
,	device relay no.				.x			7: Skimming-Input of device 8: Skimming-Input of device
ir	iput	device input no.	device input no.	device input no.	device input no.	device .x .y .y .y .td.	pput .10 device .x .yy .11 elay .11 device .x .y .11 device .x	10

4.15.2 Notification via SNMP

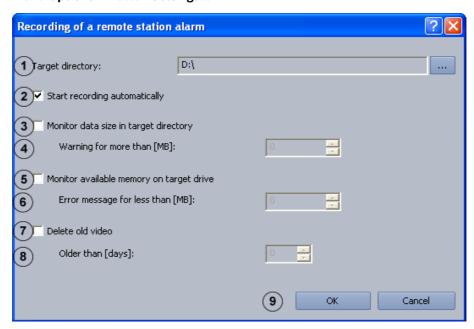
86

The following events lead to notification:

- The camera does not deliver a video signal
- The logbook cannot be created or written
- Database server could not be started
- Hard disk failure: X drive deactivated, X drive not deactivated
- The hard disk is full (protected data)
- Internal database error
- Live image and reference image differ
- Image is noisy
- Image too dark
- Image too bright
- Relay activated
- Relay not activated
- Internal malfunction or malfunction of external hard disks (e.g. malfunction relay has triggered, hard disk is full)
- Inputs activated (all Bosch Recording Station inputs)
- Inputs deactivated (all inputs)

4.15.3 Configure Automatic Alarm Recording

Menu Options > Button Settings...

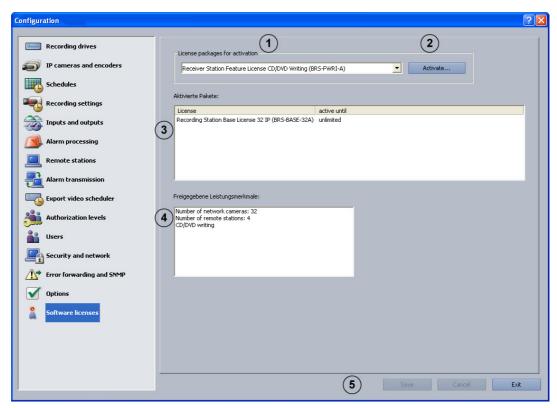


In this dialog box you can configure automatic recording for a remote station alarm.

1	Target directory:	Click on and select the directory to which the data is to be saved.			
2	Start recording automatically	Activate the check box to automatically save the data for alarm input.			
3	Monitor data size in target directory	Activate the check box to monitor the size of the saved data.			
4	Warning for more than [MB]:	Enter the value for the data size in the target directory. A warning is displayed if the value is exceeded.			
5	Monitor available memory on target drive	Activate the check box to monitor available memory on the target drive.			
6	Error message for less than [MB]:	Enter the value for the available memory that the actual value must fall below for an error message to be displayed.			
7	Delete old video	Activate this check box if you want to delete data.			
8	Older than [days]:	Enter the number of days after which data should automatically be deleted. Example : 3 means that all data older than 3 days is automatically deleted.			
9	ОК	Saves your input.			

4.16 **Activate Software Licenses**

Menu Software licenses



You can activate license packages in this dialog box. License packages are activated using a license activation key.

Note:

Bosch Recording Station license packages are supplied together with an authorization letter or e-mail containing an authorization number. After the software is installed, they must be activated with a license activation key. See Section 4.16.1 Dialog box Activate license to find out how you can obtain these license activation keys.

1	License packages for activation	Select the license packages you want to activate.
2	Activate	Opens a dialog box. Enter the license activation code for the selected license package.
3	Activated packages	The activated license package is displayed.
4	Enabled features	Displays the activated features.
5	Save	Saves your input.

4.16.1 Dialog box Activate license

Menu **Software licenses** > Dialog box **License activation** > Select license > Button **Activate...** or

Configuration wizard > Dialog box License activation > Select license > Button Activate...



You can enter the license activation key in this dialog box in order to activate the license package.

Note:

If your computer hardware does not provide a unique computer signature, you can purchase a dongle with a fixed dongle ID.

Packages that already have a license must be transferred to the dongle ID. To do this, please contact Bosch Security Systems Technical Support.

The dongle does not include the license itself. Activation with a license activation key is still required.

You have an authorization number and need a license activation key:

- 1. Make a note of the computer signature or use the copy and paste function to insert it into a text file.
- 2. On a computer with Internet access, enter the following URL in the browser:

https://activation.boschsecurity.com

You are now in Bosch License Manager.

- Follow the instructions to call up a license activation key. Make a note of the license activation key or use the copy and paste function to it into a text file.
- In the Activate license dialog box in the Bosch Recording Station configuration, enter the license activation key called up from the Bosch License Manager and then click on Activate. The license package is activated.

Note:

Keep hold of the authorization number, computer signature and activation key in case you have any technical queries.

Bosch Recording Station Remote Configuration | en 9:

5 Remote Configuration

You can remotely configure a remote station via the user interface if it is named in the device list of the Bosch Recording Station.

In contrast to the standard configuration, with remote configuration the following limitations apply:

- Configuration of the Recording drives, Security and network and Software licenses menus is not possible.
- The option of creating network drives via the Export video scheduler menu is not available. A target path can be selected.
- The option of configuring the alarm procedure via the **Options** menu is not available.
- It is not possible to display a live image in the configuration page of a BVIP device.

Note:

Remote configuration of DiBos remote stations is not possible.

CAUTION!

Ensure that a Bosch Recording Station device is not configured remotely if the local configuration is already open at the time. This procedure may lead to loss of data.

92 en | Connections Bosch Recording Station

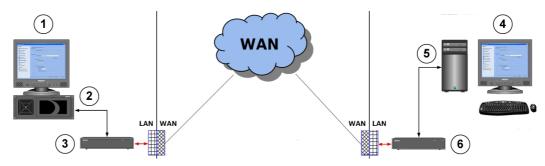
6 Connections

6.1 Network Connection via DSL

To be carried out by authorized personnel only!

The following example explains how the connection is set up:

Network connection between Bosch Recording Station recorder and Bosch Recording Station receiver via DSL



1	Bosch Recording Station	Bosch Recording Station recorder			Bosch Recording Station receiver		
	Computer name:	BRS1		Computer name:	Receiver1		
	IP address:	192.168.1.10		IP address:	192.168.0.2		
	Subnet mask:	255.255.255.0		Subnet mask:	255.255.255.0		
2	UDP port:	1750	5	UDP port:	1750		
3	DSL router	SL router		DSL router			
	Gateway: (Intranet address of router in the LAN)	192.168.1.1		Gateway: (Intranet address of router in the LAN)	192.168.0.254		
	Public address (Internet address) of router:	193.251.9.31		Public address (Internet address) of router:	193.252.10.5		

Bosch Recording Station recorder

In the configuration,

- 1. In the configuration, select the **Remote stations** menu.
- 2. Click **New** and enter the name of the remote station (Bosch Recording Station receiver).
- 3. Enter the public address (Internet address) of the remote station's router (Bosch Recording Station receiver), e.g. 193.252.10.5.
- 4. Select Low bandwidth (live mode) if necessary.
- 5. Click OK.
- 6. In the configuration, select the **Security and network** menu.
- 7. Select Activate UDP tunneling.
- 8. Enter a free number (e.g. 1750) under **Port number:**.

Note:

Check that the port is unused using the netstat -a command.

9. Click on OK.

Bosch Recording Station Connections | en 93

Mapping IP addresses and computer names:

- 1. Open the Notepad program.
- Enter the public address (Internet address) of the remote station's router (Bosch Recording Station receiver) and the computer name of the remote station (Bosch Recording Station receiver). The address and the computer name must be separated by at least one space or tab character.



- Save the file under the file name Imhosts in the directory
 C:\WINDOWS\system32\drivers\etc.
- 4. Remove the file extension .txt in Windows Explorer. The file must not have an extension.
- 5. Reboot the computer.

In the router configuration:

- 1. Use the standard configuration of the network provider.
- 2. Activate the router's firewall.
- 3. Activate port forwarding and forward the UDP port configured in the Bosch Recording Station (e.g. 1750) to the IP address of the Bosch Recording Station recorder (e.g. 192.168.1.10). To do this, use the manufacturer's router documentation.

Note:

DSL router and Bosch Recording Station recorder must be located in the same network.

Bosch Recording Station receiver

In the configuration of the receiver:

- 1. In the configuration, select the **Remote stations** menu.
- 2. Click **New** and enter the name of the remote station (Bosch Recording Station recorder).
- 3. Enter the public address (Internet address) of the remote station's router (Bosch Recording Station receiver), e.g. 193.251.9.31.
- 4. Select Low bandwidth (live mode) if necessary.
- 5. Click OK.
- 6. In the configuration, select the **Security and network** menu.
- 7. Select Activate UDP tunneling.
- 8. Enter the port number that you have already used in the Bosch Recording Station recorder (e.g. 1750) under **Port number:**.

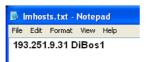
Note:

Check that the port is unused using the netstat -a command.

9. Click on OK.

Mapping IP addresses and computer names:

- 1. Open the Notepad program.
- Enter the public address (Internet address) of the remote station's router (Bosch Recording Station receiver) and the computer name of the remote station (Bosch Recording Station recorder). The address and the computer name must be separated by at least one space or tab character.



Bosch Sicherheitssysteme GmbH

94 en | Connections Bosch Recording Station

Save the file under the file name lmhosts in the directory
 C:\WINDOWS\system32\drivers\etc.

- 4. Remove the file extension .txt in Windows Explorer. The file must not have an extension.
- 5. Reboot the computer.

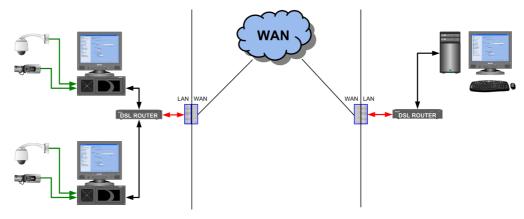
In the router configuration:

- 1. Use the standard configuration of the network provider.
- 2. Activate the router's firewall.
- 3. Activate port forwarding and forward the UDP port configured in the Bosch Recording Station (e.g. 1750) to the IP address of the Bosch Recording Station recorder (e.g. 192.168.0.2). To do this, use the manufacturer's router documentation.

Note:

DSL router and Bosch Recording Station receiver must be located in the same network.

Where there are several Bosch Recording Station recorders behind a DSL router



Note:

If there are several Bosch Recording Station recorders behind the DSL router, it is recommended that you use a VPN (Virtual Private Network). You can obtain more detailed information regarding VPN settings from Bosch Security Systems.

6.2 Connecting External Hard Disks

An SCSI controller must be installed in order to connect the external hard disk housing. External hard disks must be switched on before booting the PC.

CAUTION!

Do not position the SCSI cable near to a power cable. This affects the transmission rate and may cause the connection to be interrupted.

Bosch Recording Station Connections | en 95

6.3 Connecting an ATM (Serial)

A maximum of four customer-operated ATMs or three customer-operated ATMs and one access control system can be connected to the Bosch Recording Station via an interface processor.

The following ATM connection variants are possible:

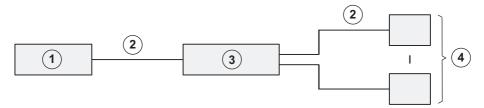
Variant 1:

Customer-operated automatic teller machines (ATMs) are located close to the Bosch Recording Station. The Bosch Recording Station and interface processor, as well as the interface processor and the ATMs, can be connected together in such a way that the distance between each of them is less than 15 m.

Possible solution:

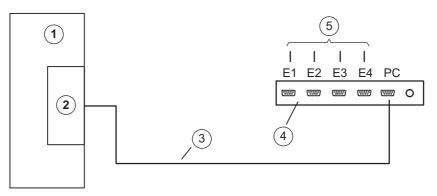
Connection of each ATM is made directly at the interface processor and is ATM-specific. The distance between the Bosch Recording Station and the interface processor and the interface processor and the ATMs is no more than 15 m.

Connection principle:



1	Ĺ	Bosch Recording Station	3	Interface processor
2	2	Max. 15 m	4	ATM1 - ATM4

Connection details:



1	Bosch Recording Station	4	Interface processor
2	COM x	5	ATM1 - ATM4
3	Connection cable, 9-pin		

96 en | Connections Bosch Recording Station

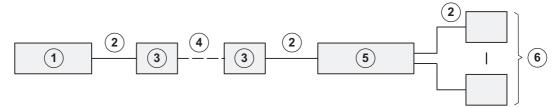
Variant 2:

Customer-operated automatic teller machines (ATMs) are located further away from the Bosch Recording Station. The Bosch Recording Station and interface processor and the interface processor and ATMs cannot be connected together in such a way that the distance between each of them is less than 15 m. The ATMs are, however, close enough together to allow them all to be connected to the interface processor in such a way that the distance between the interface processor and each ATM is less than 15 m.

Possible solution:

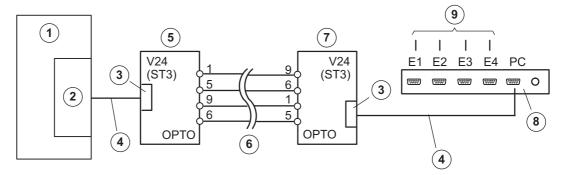
Connection of each ATM is made directly at the interface processor and is ATM-specific. You will need to install two OVS between the Bosch Recording Station and the interface processor to increase the range.

Connection principle:



1	Bosch Recording Station	4	Max. 1000 m
2	Max. 15 m	5	Interface processor
3	OVS	6	ATM1 - ATM4

Connection details:



1	Bosch Recording Station	6	Max. 1000 m
2	COM x	7	OVS 2 BR1 and BR2: position 2/3 ST3: pin 2 = receive line, pin 3 = transmit line
3	9-pin	8	Interface processor
4	Connection cable, 9-pin, part no. 4.998.079.686 (1:1 connection)	9	to ATM1 - ATM4
5	OVS 1 BR1 and BR2: position 1/2 ST3: pin 2 = transmit line, pin 3 = receive line (By re-plugging the bridges BR1 and BR2 in the OVS, it is possible to swap over the transmit and receive lines.)		

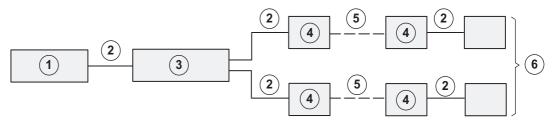
Bosch Recording Station Connections | en 97

Variant 3:

Possible solution:

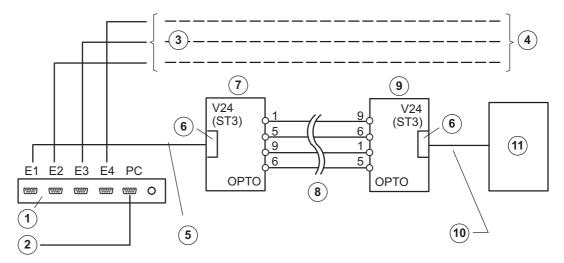
Customer-operated automatic teller machines (ATMs) are located further away from the Bosch Recording Station. The Bosch Recording Station and interface processor and the interface processor and ATMs cannot be connected together in such a way that the distance between each of them is less than 15 m. The individual ATMs are not close enough together to allow them all to be connected to the interface processor in such a way that the distance between the interface processor and each ATM is less than 15 m.

The interface processor is connected directly to the Bosch Recording Station. To increase the range, two OVS are required between the interface processor and the ATM. Connection principle:



1	Bosch Recording Station	4	OVS
2	Max. 15 m	5	Max. 1000 m
3	Interface processor	6	ATM1 - ATM4

Connection details:



1	Interface processor	7	OVS 1
			BR1: position 1/2
			BR2: position 1/2
			ST3: pin 2 = transmit line, pin 3 =
			receive line
2	Connection cable for Bosch Recording Station (COM x)	8	Range max. 1000 m
3	As ATM1	9	OVS 2 (bridge setting depending on ATM)
4	To ATM2 - ATM4	10	ATM-specific cable connection or
			adapter

98 en | Connections Bosch Recording Station

5	Connection cable, 9-pin, part no.	11	ATM1
	4.998.079.686 (1:1 connection)		
6	9-pin		

Note:

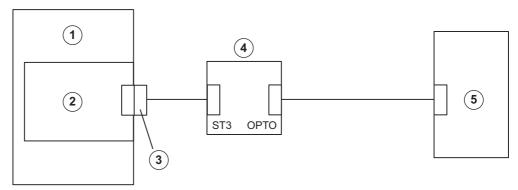
By re-plugging the bridges BR1 and BR2 in the OVS, it is possible to swap over the transmit and receive lines.

Bosch Recording Station Connections | en 99

6.4 Connecting an Alarm Panel

6.4.1 General

The Bosch Recording Station is connected to an alarm panel (AP) via an RS232 interface on COM x, for example using an intermediate OVS interface converter.



1	Bosch Recording Station
2	COM x
3	RS 232 interface
4	OVS interface converter
5	Bosch AP

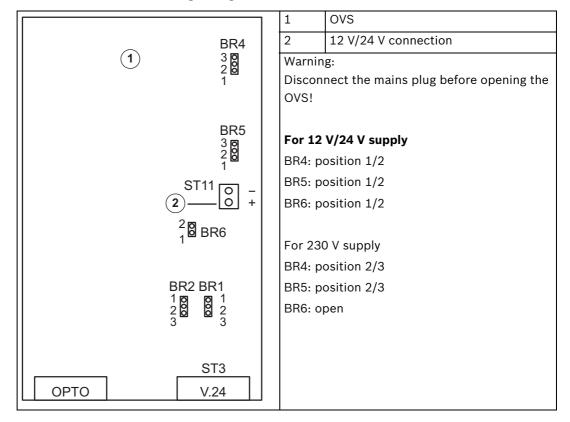
Alarm-specific modifications to APs are not required when connecting them to the Bosch Recording Station (the required interface module must be present). All settings are made via the Bosch Recording Station user interface.

The AP must have data transmission enabled and be fitted with an appropriate interface module (see relevant connection).

Using the OVS assembly, any differing transmit and receive assignments on the devices for V.24 connection can be equalized out. Bridges BR1 and BR2 must be re-plugged.

100 en Connections Bosch Recording Station

OVS interface converter bridge assignment



Exchanging transmit and receive lines

Variant 1:

BR1, BR2: position 1/2

ST3: pin 2 = transmit line, pin 3 = receive line

Variant 2:

BR1, BR2: position 2/3

ST3: pin 2 = receive line, pin 3 = transmit line

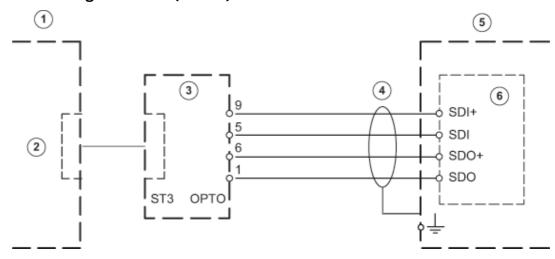
OPTO pin assign	nment	V.24 (ST3) pin assign	V.24 (ST3) pin assignment		
Direction	Connection	Direction	Connection		
Input -	1	Transmit/Receive *	2		
Input +	6	Receive/Transmit *	3		
Output +	5	0 V	5		
Output -	9				
* depending on BR1/BR2					

Note:

For cabling, telephone cables of type J-Y(St)Y 2x2x0.6 are recommended. The cable shielding must be grounded at the alarm panel side to avoid earth currents.

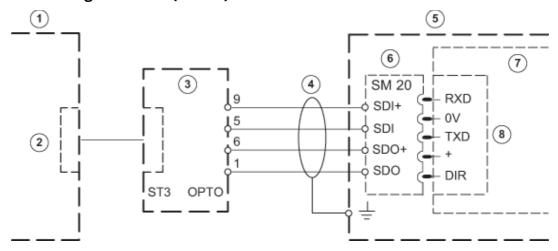
Bosch Recording Station Connections | en 101

6.4.2 Connecting to NZ 500 (20 mA)



Only connect screening wire to NZ 500. Installation cable J-Y (St) Y 2x2x0.6				
1	Bosch Recording Station	4	Range max. 1000 m	
2	COM x	5	NZ 500	
3	OVS	6	SU 500: (BR1 connected = 1200 bit/s)	

6.4.3 Connecting to BZ 500 (20 mA)

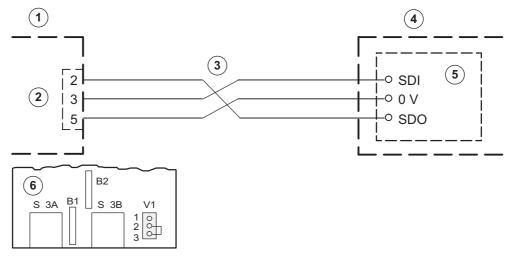


_		COM 2 and COM 3 only with interface assembly ERSE 10	
1	Bosch Recording Station	5 BZ 500 LSN	
2	COM x	6 SM 20	
3	ovs	7 ANNE 10	
4	Range max. 1000 m	8	COM 1 to COM 3

102 en | Connections Bosch Recording Station

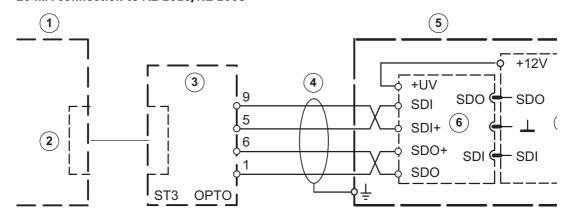
6.4.4 Connecting to AZ 1010/NZ 1008

V.24 connection to AZ 1010/NZ 1008



Bridge assignment (V) on the SMA		Connection of the AZ 1010/NZ 1008 must be	
Plug-in bridge V1 in pos. 2/3		programmed on the alarm panel side.	
Level	for V.24 interface		
1	Bosch Recording Station	4 AZ 1010/NZ 1008 (connection mus programmed on the alarm panel si	
2	COM x	5 SMA	
3	Max. 25 m	6	SMA (plug-in bridge V1 in pos. 2/3, level for V.24 interface)

20 mA connection to AZ 1010/NZ 1008

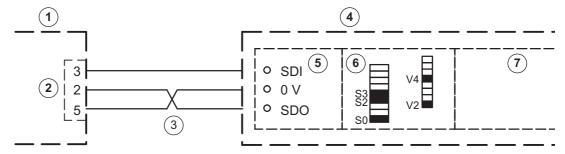


Bridge assignment (V) on the SMA		Only connect shielding wire to AZ 1010/NZ	
Plug-in bridge V1 in pos. 1/2		1008. Cable J-Y (St) Y 2x2x0.6	
Level for V.24 interface			
1	Bosch Recording Station	4	Range max. 1000 m
2	COM x	6	GOM
3	OVS	7	LNA
5	AZ 1010/NZ 1008		

Bosch Recording Station Connections | en 103

6.4.5 Connecting to NZ 1012

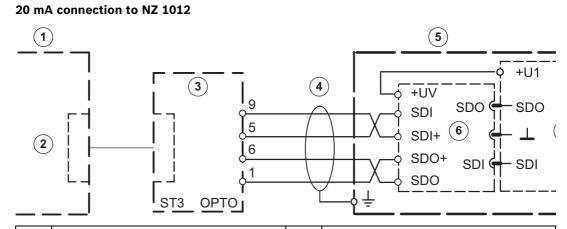
V.24 connection to NZ 1012



1	Bosch Recording Station	5	EAN
2	COM x	6	SSM
3	Max. 25 m	7	ZSN SW issues: 18508.0 A8.1, 18508.1
4	NZ 1012		A8.1

Dip-Fix assignment (S) and bridges (V) on the SSM					
Interface 1:			Interface 2:		
S0	On:	1200 baud	S4	On:	1200 baud
S1	Off:	Bosch Recording Station	S5	Off:	Bosch Recording Station
S2	On:	Transmission priority for NZ 1012	S6	On:	Device is connected
S3	On:	Device is connected	S7	On:	Transmission priority for NZ 1012
V2, V4	Connected :	V.24 interface	V12, V14	Connected :	V.24 interface
Note:	•			•	

It is possible to connect to interface 2.

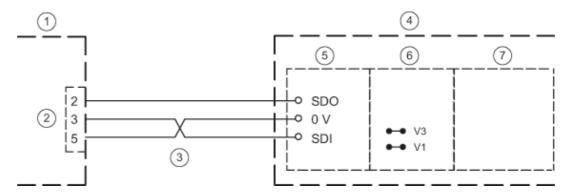


1	Bosch Recording Station	5	NZ 1012 (insert SSM bridges at 20 mA)
2	COM x	6	GOM
3	OVS	7	EAN
4	Range max. 1000 m		

104 en | Connections Bosch Recording Station

6.4.6 Connecting to NZ 1060

V.24 connection to NZ 1060

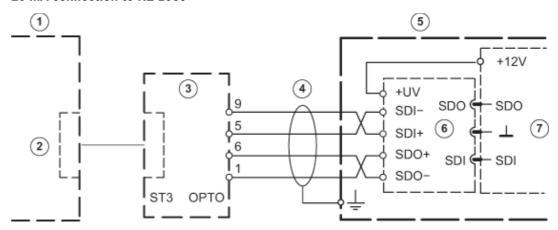


1	Bosch Recording Station	5	ZAN
2	COM x	6	SIE
3	Max. 25 m	7	ZVE (SW issues: 18033.0 A6.2, 18033.2
4	NZ 1060		A6.2, 18033.3 A6.2)

Ideally, interfaces 6 to 9 should be used; connection to interfaces 2 to 5 is also possible on a project-specific basis.

Program the appropriate interface to AUX (1200 Baud), insert bridges at SIE (V1, V3) for V.24 interface.

20 mA connection to NZ 1060

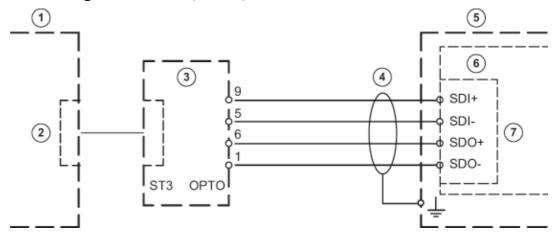


1	Bosch Recording Station	5	NZ 1060
2	COM x	6	GOM
3	ovs	7	ZAN
4	Range max. 1000 m		

Ideally, interfaces 6 to 9 should be used; connection to interfaces 2 to 5 is also possible on a project-specific basis. Program the appropriate interface to AUX (1200 baud), insert bridges at SIE (V2, V4) for 20 mA interface.

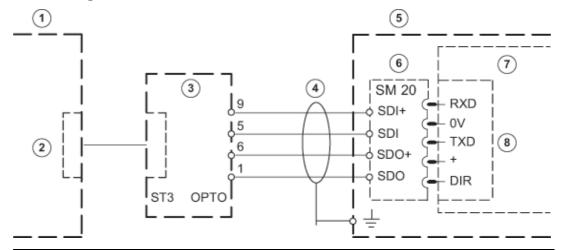
Bosch Recording Station Connections | en 105

6.4.7 Connecting to UEZ 1000 (20 mA)



Only	Only connect screening wire to UEZ 1000. Installation cable J-Y (St) Y 2x2x0.6					
1	Bosch Recording Station 5 UEZ 1000					
2	COM x 6 AVK					
3	OVS	7	20 mA-1 to 20 mA-3			
4	Range max. 1000 m					

6.4.8 Connecting to UEZ 2000 (20 mA)

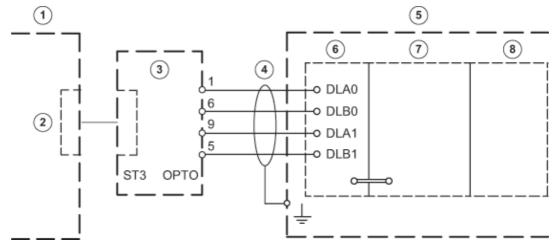


Only connect screening wire to UEZ 2000.		COM 4 and COM 5 only with interface		
Installation cable J-Y (St) Y 2x2x0.6			assembly SEMO1	
1	Bosch Recording Station 5		UEZ 2000 LSN	
2	COM x 6		SM 20	
3	3 OVS 7 .		AVM 100	
4	4 Range max. 1000 m 8		COM 1 to COM 5	

106 en | Connections Bosch Recording Station

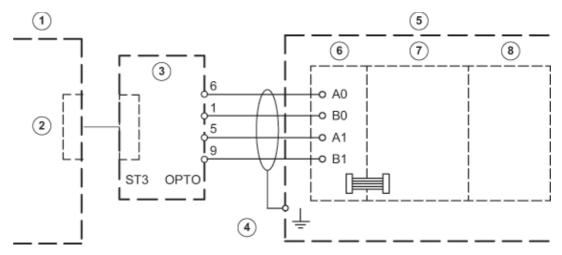
6.4.9 Connecting to UGM 2020

20 mA connection to UGM 2020 via TESP (for telephony)



1	Bosch Recording Station	5	UGM 2020
2	COM x	6	TESP (br. 1-4 open)
3	ovs	7	SGK (SW issues: SGKUGM)
4	Range max. 1000 m	8	EPC/EPC2 (from EAPS-4, EAPS-5)

20 mA connection to UGM 2020 via UESS



1	Bosch Recording Station	5	UGM 2020
2	COM x	6	UESS (power surge protection)
3	ovs	7	SGK (SW issues: SGKUGM)
4	Range max. 1000 m	8	EPC/EPC2 (from EAPS-4, EAPS-5)

7 **Troubleshooting and Checks**

This chapter outlines the causes of malfunctions that you may encounter when installing or operating the system. If you are unable to remedy the cause of a malfunction, please consult the manufacturer's product service video.

7.1 **Troubleshooting**

Malfunction	Possible cause	Solution
Device stops during the		Uninstall Bosch Recording
computer's boot phase.		Station and then reinstall the
The Bosch Recording Station		software.
application freezes.		
There is a message stating	There are corrupt sectors or	Use the Chkdsk program to
that there are files on the	corrupt files on the drives.	check the drive where the
drive that cannot be		operating system is located.
accessed.		To check drives containing
		image data start the
		AnalyzeDatabase.exe
		program.
		In both cases you should
		delete the files concerned.
		Also delete the directories in
		which the corrupt files are
		located.
		Note:
		A list of defective files is
		written to the log file of the DB server each time the
		Bosch Recording Station is
		started.
All cameras are crossed out.	No video signal available.	Check network connections.
	Unlicensed.	Initiate licensing process.
Network connection cannot	Computer name is assigned	Do not assign the computer
be established and cameras	more than once.	name more than once.
are crossed out.	IP address is incorrect.	Enter correct IP address.
	Firewall is activated.	Deactivate the firewall or, if
		this is not possible, use UDP
		tunneling.
All AP inputs have been	Interface error to AP.	Remedy interface error.
sounding for more than 10 seconds.	Unlicensed.	Initiate licensing process.
Camera video signal missing.	No video signal available.	Check video signal.
Images cannot be written.	Images have been written to too many archives.	Modify recording.
Software feature not	Unlicensed.	Initiate licensing process.
working.		Licensing is visible in the
		configuration.
•	•	•

Malfunction	Possible cause	Solution	
External hard disks are not	Terminator missing.	Plug in terminator.	
recognized by the system.	Hard disk ID used twice.	Set hard disk IDs in ascending order.	
	Disks are not formatted.	Format hard disks for NTFS in hard disk manager.	
No ISDN connection	Transmitter and receiver	Check connection	
available.	connection passwords do not match.	passwords.	
	Wrong protocol is set.	Select appropriate protocol	
		(EURO-ISDN) via an ISDN-PCI setup.	

7.2 **Checking the Network Connection**

Information on networking

To install and test the network, you will require the following information from the network

- IP address
- Subnet mask
- (Gateway)

Notes on testing the network

To install and test the network, use the following test program:

- **Select Start -> All Programs -> Accessories -> Command Prompt.**
- 2. The commands available include:

ping

This command is only available if the TCP/IP protocol is installed.

ping localhost

This program checks the communication with the computer it is running on.

ping <Name of remote station> or

ping <TCP/IP address of remote station>

The program checks communication with the remote station.

arp -a

The program displays other computers after making contact with them.

Shows all current TCP/IP network configuration values (IP address, subnet mask, default gateway)

tracert <name of remote station>

This program determines the path taken to a destination.

net view

Displays all available remote stations.

Note:

Ping does not work if UDP tunneling is activated in the configuration.

7.3 Checking the Optional ATM Connection

The data telegram between the Bosch Recording Station and the ATM can be checked using the **HyperTerminal** program in Windows® XP.

- Start the program using the menu Start > All Programs > Accessories > Communications
 HyperTerminal.
- When the program has started, enter a name (test name) in the dialog box and confirm the entry.
- In the following dialog box, select the interface to which the interface processor is connected (**Connect using** input field). Confirm with **OK**.
- Enter the following parameters:
 - Bits per second: 9600
 - Data bits: 8
 - Parity: none
 - Stop bits: 1
 - Flow control: none

Confirm the entries with **OK**.

 In the File -> Properties -> Settings -> ASCII-Setup menu, activate the Append line feeds to incoming line ends check box. Confirm with OK.

The HyperTerminal configuration is finished. The data can now be evaluated.

Data telegram between Bosch Recording Station and interface processor:

■1■280897■1318■08896■		-	1 1
■1■280897■1318■08896■	■ 82054135 ■ 05	532037398■	1 1 2
■1■280897■1318■08896■	■82054135 ■ 05	532037398 ■ 22	20■ ■■ (3)
■1■280897■1318■08896■	■82054135 ■ 05	532037398 ■ 22	20■2■■ (4)
■1■280897■1318■08896■	■82054135 ■ 05	532037398 ■ 22	20■ ■■ (5)
■1■ 280897 ■ 1318 ■ 08896 ■	■82054135 ■ 05	532037398 = 22	20 - 6
7 8 9 10 1	1) (12)	13) (1	4 (15)

1	Card in ATM	8	Date			
2	Card recognized by ATM	9	Time			
3	Enter amount	10	Transaction number (Depends on ATM and computing center, not always available)			
4	Hand to cash	11				
5	Removal of cash	12	Bank routing code			
6	End of transaction	13	Account number			
7	Interface number	14	Amount			
	(0 - 3 for ATM1 - ATM4)	15	Camera number/action			

Note:

Action 1 = Card in ATM message

Action 2 = Hand to cash message

For some ATMs, a message is generated as soon as the card is inserted, but does not display BRC or account number. For other ATMs, the message is first generated when the BRC and account number have been read and the PIN entry has been made correctly.

7.4 Installing a web server

Information on installing a web server can be found in the installation handbook Installation of Web Server or der Security Knowledge Base database at the following link:

http://knowledge.boschsecurity.com/.

7.5 **Checking the Web Connection**

After activating the web application, check that you actually have access.

Proceed as follows:

- Start the web browser (Internet Explorer 6.x or higher).
- In the browser, enter http://<hostname> under address. As <hostname>, specify either the IP address or the name of the computer on which the web server is installed. The login screen of the Bosch Recording Station web application appears when a connection is installed. It is now possible to log on.

8 Notes on Service and Maintenance

8.1 Maintenance Work to be Carried Out

Perform the following maintenance work:

- On the system itself:
 - Check that all cables are connected firmly
 - Check the fans and clean if necessary
 - Clean the screen if dirty
 - Check the system time and set if necessary
- Check the quality of the last five saved images per camera (e.g. sharpness, brightness, contrast).
- The images stored in the archives must be randomly checked (with regard to image quality and additional data).
- At least one trigger by a connected AP or a directly connected contact must be undertaken. The images placed in the archives as a result of this action must be checked and then deleted.
- The hard disk load must be checked. In agreement with the customer, it may be necessary to delete images.
- All freely accessible cameras and lenses as well as dome cameras and front screens of external cameras should be cleaned. While doing so, the connecting cables and connectors must be checked.
- The reference images printed or saved during installation of the system must be compared with the live images of the corresponding cameras with regard to their alignment. The customer is answerable to the administrative association (BGV) with regard to setting the image frame size.
- A functional test in accordance with UVV Kassen must be carried out at least once per month. The SP 9.7/7 Requirements for testing of optical room monitoring systems must be taken into account.
- Checking the customer's own printer (1 printout).
- A test connection is to be set up for the ISDN connection.
- For ATM connection:
 - Check the connecting cables on the interface processor and on the OVS
 - Check the transmission of the transaction data
 - Access control data display (check the access control connection cable)
- All work carried out is to be documented in the operating handbook.



NOTICE!

All work on the system that affects recording may only be carried out with the prior agreement of the customer. For UVV-relevant devices, it is preferable that this work is carried out outside of counter opening times.

Maintenance work to be carried out by the operator

The operator must:

- Replace the toner cartridge for laser printers;
- Replenish printer paper or the video printer paper cartridge, and
- Replace the color cartridge for ink jet printers.

8.2 **Software Update**

Installation of the software is essentially carried out in the role of Windows Administrator.

8.3 **Troubleshooting**

The following malfunctions are to be rectified as and when they occur:

Backlighting:

If backlighting effects are identified during recording, the light source must be covered up, for example using curtains over windows or lampshades on lighting; alternatively, the location of the camera should be changed.

Reflections:

If the optical room monitoring system is enclosed in bulletproof or toughened glass, the lighting conditions may cause reflections. These become stronger as the level of light within the glass enclosure increases. Such reflections can be reduced by increasing the illumination of the area outside the glass enclosure and positioning the cameras closer to the glass. Reflections can also often be avoided by covering light sources behind or next to the camera. If these measures do not help, a polarization filter can be fitted in front of the lens.

Sharpness:

When checking recordings, care should be taken that persons and objects are sharply delineated within the defined recording zone. To improve the image sharpness, "gray" or ND filters can be placed in front of the lens.

Contamination:

The quality of the recordings is frequently affected by dirt on the lens or the window of the security housing.

Errors or malfunctions can be fixed by

- 1. closing and re-establishing the local or remote connection;
- exiting the program and booting it again, or
- warm starting or switching the system off and then on again (with a wait time of approximately 20 seconds).

If this does not restore normal operation, the configuration must be checked.

If the malfunction cannot be fixed, the system must be replaced.

9 Technical Specifications

The technical specifications can be found in the data sheet.

Bosch Recording Station Index | en 115

Index

Α

Activate licenses 88 Add/change IP cameras 22 Adding holidays 35

Assign AP addresses (Bosch G Series) to inputs 52 Assign AP addresses to inputs 51

Assign AP line statuses to inputs 50

Automatic alarm recording 82

Automatic disconnection 82

C

Configure alarm processing 59

Configure alarm sequence 59

Configure alarm simulation 42

Configure alarm transmission 65

Configure AP inputs 49

Configure ATM/POS inputs 55

Configure automatic recording for a remote station alarm 87

Configure automatic teller machines 44

Configure browser access 77

Configure error forwarding 79

Configure export video scheduler 68

Configure foyer card reader 46

Configure Foyer Card Reader Time Control 48

Configure I/O module 57

Configure JPEG IP cameras 32

Configure MPEG4/H.264 IP cameras 26

Configure options 82

Configure POS inputs 53

Configure Recording Drives 20

Configure recording settings for MPEG4/H.264 IP

cameras 37

Configure recording settings of JPEG IP cameras 40

Configure remote stations 63

Configure the e-mail server setup 62

Configure Users 75

Configure virtual inputs 43

Configuring dome/pan/tilt cameras 28

Configuring SNMP 82

Configuring time profiles 35

Create authorization levels 70

D

Disconnection - Automatic 82

Displaying alarm cameras 82

Ε

Edit MPEG4/H.264 IP cameras 24

Instant Playback 82

IP cameras and encoders 22

L

Load holidays file 35

М

MIB list 85

MPEG4/H.264 Add IP cameras automatically 16, 23

S

Search for IP cameras 22 Search network 16, 23 Selecting LDAP server user groups 72 Setting up the image comparison 31 Skimming protection 46 Standard configuration general 20

U

UDP tunneling 77

116 en | Index Bosch Recording Station

Bosch Sicherheitssysteme GmbH

Robert-Bosch-Ring 5 85630Grasbrunn Germany

www.boschsecurity.com

© Bosch Sicherheitssysteme GmbH, 2012