

Operating Instructions

Digital Video Recorder

Models: DLR3-08/xxxSDV
DLR3-16/xxxSDV



Safety instructions

EMC class

- ▶ This video recorder (DVR) is a class A device in accordance with EN 55022.
- ▶ This device may cause interference to other equipment in domestic use. In such cases the persons operating the DVR are required to provide appropriate countermeasures, for which they themselves bear the cost.

Importance of these Operating Instructions

- ▶ Please read the safety instructions and the other information contained in the Operating Instructions before connecting up and operating the DVR.
- ▶ The Operating Instructions should be kept in a safe place for later reference.

Ambient conditions for the DVR

- ▶ The DVR should be protected against excessive heat, dust, damp and vibration.
- ▶ The DVR may only be operated at temperatures between +5°C and +40°C, and up to a maximum air humidity of 90%.
- ▶ The DVR may only be operated indoors, and must be protected against incursion of water and damp.

Care of the DVR

- ▶ Never switch on the DVR when damp has penetrated it. In such cases, have the DVR checked by a qualified service engineer.
- ▶ Do not place any heavy objects on the DVR.
- ▶ Never cover over the DVR's vents.
- ▶ Never insert metal objects or any other items into the vents. This may permanently damage the DVR.
- ▶ The housing may only be opened by authorised persons. Repairs may only be carried out by qualified service personnel.
- ▶ The DVR must be disconnected from the power supply before its housing is opened.

Getting started with the DVR

- ▶ When laying the connecting cables, make sure no weight is placed on them, that they are not kinked or damaged, and that no damp can penetrate them.

Cleaning the DVR

- ▶ The housing of the DVR may only be cleaned with a damp (not wet) cloth,
- ▶ Use only a mild detergent. Do not use solvent-containing detergents or petrol. This could permanently damage the surface finish.

Spare parts

- ▶ Use only original spare parts from Videor E. Hartig GmbH.

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Overview

Package contents

- Digital video recorder (DVR)
- Mains power cord
- Operating instructions
- RAS (Remote Administration System) software on CD
- Operating instructions for RAS software on paper and CD
- Mounting kit for cabinet installation

Basic functions

- Record video images using multiple cameras
- Event-based recording start
- Video playback
- Search for specific video sequences

Features

- MPEG-4 compression / duplex mode
- 8 or 16 loop-through inputs / VGA, FBAS outputs
- Alarm inputs / outputs
- Max. recording speed: 100 field images per sec (PAL)
- Memory capacity 250 GB / 500 GB / 750 GB
- Maximum video resolution 720 x 576 pixels
- Archiving/image transfer via USB and DVD-RW
- Live picture & Playback Zoom (2x)
- Integral Motion Detector
- Telemetry control functions via RS-485 port
- Network connection (Ethernet)

Requirements for operation

- Digital video recorder DLR3 connected
- At least 1 camera (PAL) and 1 monitor connected.
- Mouse connected, if DVR is to be controlled by mouse

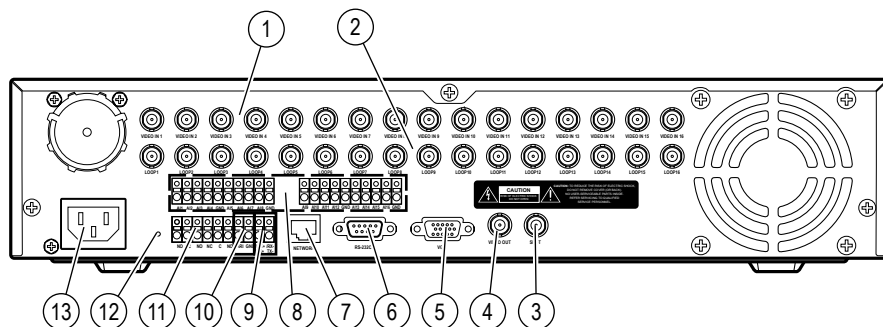
Note: Please refer to www.videor.com for further information.

Control options

- Front panel
- Mouse
- WebGuard
- RAS program

Connections on the rear

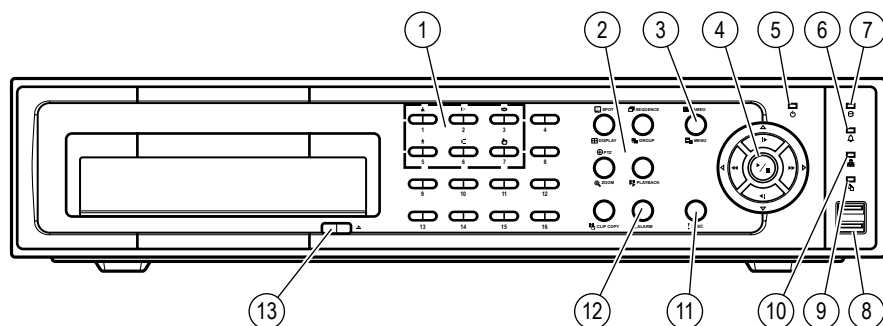
Note: Connections optionally for NTSC or PAL operation.



No.	Designation	Functions/connections	Example devices
1	VIDEO IN 1-16	Max. 16 video channels	Cameras
2	LOOP 1-16	Max. 16 loop-through video channels	Cameras
3	SPOT	Video output	Spot Monitor
4	VIDEO OUT	Video output	Monitor
5	VGA	PC monitor	PC monitor
6	RS-232C	External interface	Remote Control
7	NETWORK	Network	Network cable
8	AI1 - AI16	Alarm inputs for external devices	Sensors
9	/RX+, /RX-, TX+, TX-	External interface (RS-485)	Keyboard, PTZ camera
10	ARI/GND	Reset alarm with external signal	Switch
11	NO, C, NC	Alarm outputs for external devices	Siren, flashing light
12	Reset switch	Reset to factory defaults	-
13	Power supply	Mains power connection	-

Front panel controls

The following diagram and table set out the controls on the front panel of the DVR:












No.	Designation	Function
1	1 to 16 	Selecting the camera and inputting passwords (primary usage) PTZ camera functions (secondary assignment)
2	SPOT, SEQUENCE, CAMEO, DISPLAY, GROUP, PTZ, ZOOM, PLAYBACK, CLIP COPY	Function buttons
3	MENU	Open/quit menu structure (primary assignment)
4		Playback functions (primary assignment)
	Menu navigation	Navigate and select within the menu structure (secondary assignment)
5		Power-on indicator when DVR is in operation
6		Display at alarm
7		Indicates hard disk operation
8	Connections	USB ports
9		Indicates recordings being copied
10		Indicates Ethernet or modem connection
12	PANIC	Start/end panic recording
13	ALARM	<ul style="list-style-type: none"> ● Reset alarm ● View event list
15		Open built-in DVD-RW writer







Key to controls

Function buttons






Note: The secondary function assignment is accessed by holding down the key.

Element	Function
	Spot monitor assignments (secondary assignment)
	Sequence On/Off (secondary assignment)
	Cameo mode On/Off (secondary assignment)
	Changing the image display modes (primary usage)
	Switch displayed group (primary assignment)
	PTZ camera functions On/Off (secondary assignment)
	Zoom On/Off (primary assignment)
	Start playback
	Copying recordings

PTZ camera functions

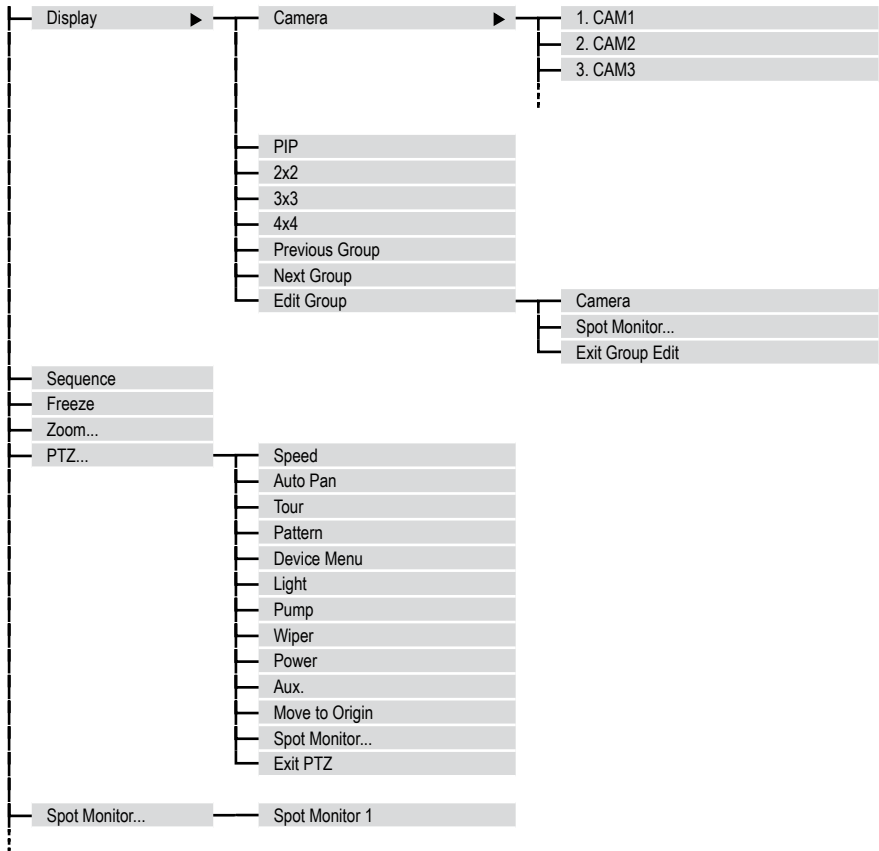
Element	Function
	Zoom in
	Zoom out
	Close-up
	Wide-angle
	Save preset
	Load preset

Playback functions

Element	Function
	Frame-by-frame rewind
	Fast rewind
	Start/pause playback
	Fast forward
	Frame-by-frame forward

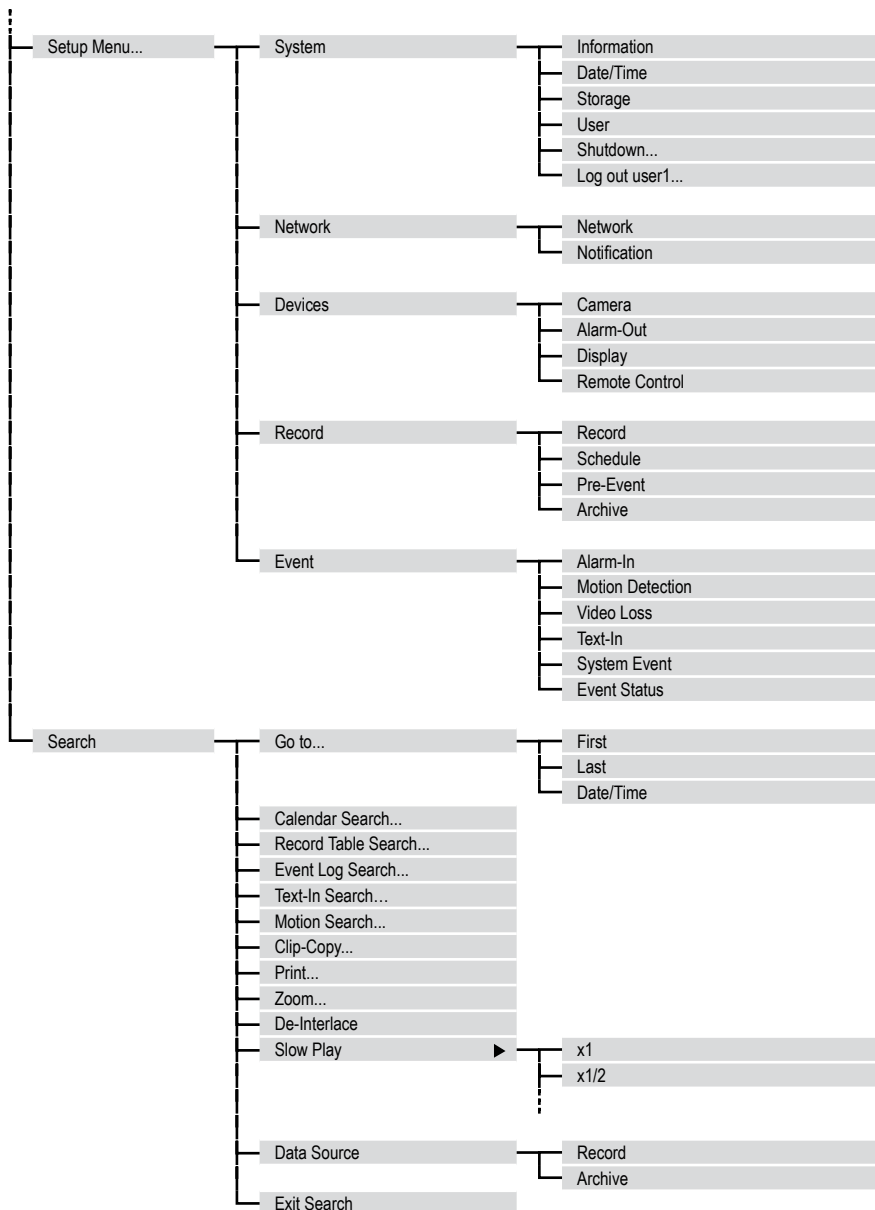
Menu structure

The following illustration shows the structure of the complete menu tree that is accessible using the mouse control:



Menu structure, continued

The following illustration shows the structure of the complete menu tree that is accessible using the mouse control:



Accessing the menus











Accessing the Display menu

Requirement:

- The current camera image is shown in full image or quad image.

Step	Action	Access using	Key sequence/menu path
1	Open Display menu...	Device	
		Mouse	Display



Access to submenu

Submenu	Camera image	Key sequence
Change Display modes (PIP, 2x2, 3x3, 4x4)	Without frame	   ...
Previous/Next Group	Without frame	 
Edit Group	With frames	  
Change position of image-in-image	Without frame	 
Change size of image-in-image	Without frame	Jog dial

Accessing the PTZ menu

Requirement:

- A PTZ camera is connected and configured.
- Current camera image is shown as a full image.


Step	Action	Access using	Key sequence/menu path
1	Open PTZ menu... Result: Menu of the configured PTZ camera is shown.	Device	 > 
		Mouse	PTZ...

Accessing the menus, continued

Accessing the Setup menu

Requirement:



- The current camera image is shown in full image or quad image.

Step	Action	Access using	Key sequence/menu path
1	Open Setup Menu...	Device	
	Result: Prompt for user name and password.	Mouse	Setup Menu...
2	Log in as user. User name: admin Password: (blank)		
	Note: Use default access data only for first-time access.		

Accessing the Search menu

Requirement:

- The current camera image is shown in full image or quad image.

Step	Action	Access using	Key sequence/menu path
1	Open Search menu...	Device	 > 
	Result: Search for recorded images is activated.	Mouse	Search

Getting started

Checklist for DVR operation

Step	Action	Menu path
1	Connect peripheral devices as per planned setup.	
2	Specify menu language.	Setup Menu... > System > Information
3	Adjust date and time.	Setup Menu... > System > Date/Time
4	Set up user.	Setup Menu... > System > User
5	Set up network and desired notification channels (optional).	Setup Menu... > Network > ...
6	Register peripherals with DVR.	Setup Menu... > Devices > ...
7	Set up event types and associated responses.	Setup Menu... > Event > ...
8	Set up recording parameters and schedule.	Setup Menu... > Record > ...

Getting started (continued)

Switching on the DVR

Requirement:

- At least 1 camera (PAL) connected.
- The start-up preparations are complete.

Step	Action
1	Plug in DVR mains plug. Result: The video recorder starts up automatically, checking the connected video inputs.
2	Switch on monitor. Result: System is ready to use.

Switching off the DVR

Requirement:

- You have accessed the Setup menu.

Step	Action	Menu path
1	Shut down the system. Result: System shuts down automatically.	Setup Menu... > System > Shutdown...
2	After shutdown, disconnect the mains plug.	

Administration

Saving your system setup

You can save your DVR's setup data, including its network configuration.

Requirement:

- USB memory stick

Step	Action	Menu path
1	Insert a USB memory stick into one of the USB ports.	
2	Export your setup.	Setup Menu... > System > Information > Setup Export...
3	Specify a file name.	
4	Export your setup.	Export

Loading your system setup

You can load your stored DVR system setup with or without its network configuration.

Requirement:

- USB memory stick with stored setup

Step	Action	Menu path
1	Insert a USB memory stick into one of the USB ports.	
2	Import your setup.	Setup Menu... > System > Information > Setup Import...
3	Select the file name and, where appropriate, the network configuration.	
4	Import your setup.	Import

Deleting recordings

You can only delete all your recordings together. It is not possible to delete recordings from a specific time period.

Step	Action	Menu path
1	Delete all recordings.	Setup Menu... > System > Information > Clear All Data... or Setup Menu... > System > Storage > Information > In Use > Clear

Administration (continued)

Downloading software updates

You can download software updates for your DVR from a USB memory stick.

Requirement:

- USB memory stick with latest software release

Step	Action	Menu path
1	Insert a USB memory stick into one of the USB ports.	
2	Start update.	Setup Menu... > System > Information > Upgrade...
3	Install new release.	

Hiding from specific users

You can hide video images and camera data according to the preset user rights.

Step	Action	Menu path
1	Set camera Covert mode.	Setup Menu... > Devices > Camera > Settings
2	Cancel 'Covert Camera View' access for specific users (groups).	Setup Menu... > System > User

Restoring factory defaults

Before restoring the factory defaults, you should export your current system settings in case you need to re-import them later. (see *Saving your system setup and Loading your system setup*)

Step	Action
1	Shut down the system.
2	Disconnect the mains plug.
3	Push a paper clip into the Reset button (on the rear of the DVR) and hold it there.
4	Plug in the mains plug.
5	Wait for all the LEDs to flash 5 times (about 30 seconds).
6	Withdraw the paper clip.

Administration (continued)

Determining the memory requirement of a recording

The amount of memory recorded video sequences will take up depends on the following factors:

- Picture quality
- number of images per second
- duration

The memory requirement for 1 camera is calculated by this formula:

$$\text{Memory requirement} = \text{picture size} \times \text{duration of recording} \times \text{images per second}$$

Calculation example: CIF resolution (PAL):

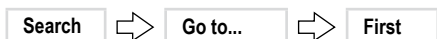
Picture quality	Picture size	Duration of recording	Approx. memory space		
			5 images/s	10 images/s	25 images/s
Low	2.4 kB	24 hours	1.04 GB	2.07 GB	5.18 GB
Standard	4.8 kB	24 hours	2.07 GB	4.15 GB	10.37 GB
High	9.6 kB	24 hours	4.15 GB	8.29 GB	20.74 GB
Very High	14.4 kB	24 hours	6.22 GB	12.44 GB	31.10 GB

Calculation example: 2CIF resolution (PAL):

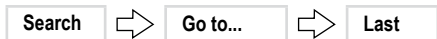
Picture quality	Picture size	Duration of recording	Approx. memory space		
			5 images/s	10 images/s	25 images/s
Low	4.8 kB	24 hours	2.07 GB	4.15 GB	10.37 GB
Standard	9.6 kB	24 hours	4.15 GB	8.29 GB	20.74 GB
High	19.2 kB	24 hours	8.29 GB	16.59 GB	41.47 GB
Very High	28.8 kB	24 hours	12.44 GB	24.88 GB	62.20 GB

Searching for recordings

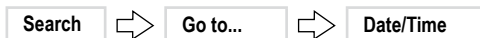
Find first stored recording



Find last stored recording



Find recording by date and time



Calendar search

For each camera the calendar search indicates:

- the days from which there are recordings
- the time ranges of recordings on those days



Record table search

The search recording table shows a time beam of the recording time intervals of all cameras.



Event log search

The event log search enables you to search for events based on specific criteria, such as:

- movements recorded by a specific camera
- alarm from a specific alarm input
- System events



Text-in search

The text-in search enables you to search for recordings based on specific text inputs.



Searching for recordings, (continued)

Motion search

The motion search function can detect movements in recordings within defined zones for one camera. 2 types of motion search are possible:

- Motion search: Search for movement in a defined zone.
- Museum search: Search for movement of a defined object.

Search



Motion Search...

Copying recordings

Recordings can be written to a CD or copied to a USB memory stick.

Search



Clip-Copy...

Using calendar search

Performing a calendar search

Step	Action	Menu path
1	Open calendar search. Result: Calendar and time line are displayed.	Search > Calendar Search...
2	Select day and time	
3	Confirm input.	Go

Search




Calendar Search...











Term	Symbol	Meaning
		Date display <ul style="list-style-type: none">● Grey: No recording available● White: Recording available
		Hours display <ul style="list-style-type: none">● White: Recording available
Select a Segment		If the date and time on the DVR have been changed (such as when switching to Summer time) there may be multiple recordings for one time from the same camera. They are stored in separate segments.

Using record table search

Performing a record table search

Step	Action	Menu path
1	Open record table search. Result: The recording table (standard view) is displayed.	Search > Record Table Search...
2	Locate recordings. Result: The current search position is shifted.	



Symbol	Meaning
	Quit record table screen
1. CAM1	Camera name
	Hours display
	Display of current search position
	Open expanded view
	Open standard view
	Zoom in
	Zoom out
	Indicates calendar search
	Indicates search menu
	Search functions

Using event log search

Performing an event log search

Step	Action	Menu path
1	Open event log search. Result: The result of the last search is displayed.	Search > Event Log Search...
2	Define criteria.	Option...
3	Confirm input. Result: List of search results is displayed.	Search
4	Select desired entry from list.	



Term	Symbol	Meaning
From First	<input checked="" type="checkbox"/> <input type="text" value="..."/>	Start date
To Last	<input checked="" type="checkbox"/> <input type="text" value="..."/>	End date
Check Time Overlap	<input checked="" type="checkbox"/>	Activates a system prompt if there are multiple recordings for the same time range
Alarm-In	<input type="text" value="..."/>	Alarm inputs in response to which a search for events is to start
Motion	<input type="text" value="..."/>	Cameras on which to search for motion detection
Video Loss	<input type="text" value="..."/>	Cameras on which to search for video loss
Text-In	<input type="text" value="..."/>	Text input devices on which to search for events
Record Channels	<input type="text" value="..."/>	Cameras on which to search for events
	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	Search for system events: Setup Menu... > Event > System Event > Actions

Using text-in search

Performing a text-in search

Step	Action	Menu path
1	Open text-in search. Result: The result of the last search is displayed.	Search > Text-In Search...
2	Define text inputs.	Option...
3	Confirm input. Result: List of search results is displayed.	Search
4	Select desired entry from list.	

Using text-in search (continued)

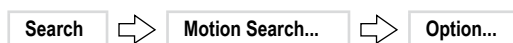
Search ⇨ Text-In Search... ⇨ Option...

Term	Symbol	Meaning
From First	<input checked="" type="checkbox"/> <input type="text" value="..."/>	Start date
To Last	<input checked="" type="checkbox"/> <input type="text" value="..."/>	End date
Channels	<input type="text" value="..."/>	Text input devices on which to search for events
		Type of text input:
	<input type="text" value="..."/>	Any Text-In Product
		Generic Text
		Epson
No.	<input checked="" type="checkbox"/>	Numbers of text elements to search for
		Linking operator for different query conditions:
-	<input type="text" value="..."/>	(blank)
		AND
		OR
Name	<input type="text" value="..."/>	Text field by which the search should be made
Comp.	<input type="text" value="..."/>	Comparison conditions
Value	<input type="text" value="..."/>	Numerical value against which the comparison is to be made
Column	<input type="text" value="..."/>	Column number
Line	<input type="text" value="..."/>	Line number
X	<input type="text" value="..."/>	Delete search parameter
+	<input type="text" value="..."/>	Add new set of search parameter
Case Sensitive	<input checked="" type="checkbox"/>	Makes search case-sensitive
Load	<input type="checkbox"/>	Load saved search option settings
Save	<input type="checkbox"/>	Save current search option settings

Using motion search

Performing a motion search

Step	Action	Menu path
1	Display desired camera in single frame.	Display > Camera > ...
2	Open motion search.	Search > Motion Search...
3	Enter settings for motion search.	Option...
4	Confirm input. Result: List of search results is generated.	Search
5	Select desired entry from list.	



Term	Symbol	Meaning
From First	<input checked="" type="checkbox"/> <input type="text" value="..."/>	Start date
To Last	<input checked="" type="checkbox"/> <input type="text" value="..."/>	End date
Type	<input type="text" value="..."/>	Type of search: Motion Search Search for movement in a defined zone Museum Search Search for movement of a defined object.
Zone	<input type="text" value="..."/>	Definition of motion-sensitive zones for motion search or museum search: See "Zone" on page 48.
Sensitivity	<input type="text" value="..."/>	Sensitivity of motion detection of: 1 (Dull) 2 3 4 5 (Sensitive)
Min. Blocks	<input type="text" value="..."/>	Motion search only (not museum search): Specify in how many motion-sensitive blocks motion must be detected as a minimum to trigger an alarm

Copying recordings

Copying recordings to CD or USB memory stick

Step	Action	Menu path
1	Find desired recordings. Note: Make a note of the data of the recordings you want to copy.	Search > ...
2	Define settings.	Search > Clip-Copy...
3	Start copying. Result: The recordings are copied.	Start

Search



Clip-Copy...

Term	Symbol	Meaning
Data Source	<input type="text"/>	Record
From First	<input checked="" type="checkbox"/> <input type="text" value="..."/>	Start date
To Last	<input checked="" type="checkbox"/> <input type="text" value="..."/>	End date
Channels	<input checked="" type="checkbox"/> <input type="text" value="..."/>	Assignment of cameras from which recordings are to be copied
Password	<input type="text" value="..."/>	Use password, if desired
Dest.	<input type="text" value="▼"/>	Destination medium:
		Internal DVD-RW
		USB-CD-RW
		1. USB Storage
2. USB Storage		
3. USB Storage		
File name	<input type="text" value="..."/>	Name of file on destination medium
Include Text-In Data	<input checked="" type="checkbox"/>	Activates use of Text-In data
Verify After Burning	<input checked="" type="checkbox"/>	Activates verification after burning
Status	<input type="text"/>	Copy status

Menu descriptions – Setup menu

The Setup menu has the following sub-menus:

System menu



On the “System” menu

- the basic settings are made
- users are administered
- the system is shut down.

Network menu



On the “Network” menu the network settings are made. Network access provides access to all the functions of the DVR via

- WebGuard, same access using Internet Explorer
- RAS (Remote Administration System), independent of Internet Explorer

The DVR can be configured so that alarms trigger a notification by e-mail or notify an RAS.

Devices menu



On the “Devices” menu the connected peripheral devices are configured. Possible peripherals are:

- Cameras
- Microphones and speakers (through amplifier)
- Sirens and signal lamps
- Monitors
- Remote control for PTZ

Record menu



On the “Record” menu the following settings are made:

- Recording quality
- Timer control
- Duration of pre-event recording

Event menu



On the “Event” menu the following settings are made:

- Assignment of alarm inputs to alarms
- Configuration of motion-sensitive zones individually for each camera
- Definition of text input device and assignment to alarms
- Response to undesirable events

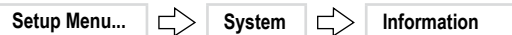
The event status is additionally displayed.

Setup menu

System – Information

On the “Information” menu

- basic information is entered and displayed
- software updates are installed
- recorded data are deleted as required



Term	Symbol	Meaning
Site	<input type="text" value="..."/>	Location of DVR
System ID	<input type="text" value="..."/>	ID for remote keypad <ul style="list-style-type: none">• The remote keypad and DVR must be set to the same ID.
Language	<input type="text" value="▼"/>	Menu language
Version	<input type="text"/>	Version of DVR software
Upgrade...	<input type="checkbox"/>	Starts installing latest version of software via USB port
Import...	<input type="checkbox"/>	Import setup
Export...	<input type="checkbox"/>	Export setup
Show System Log...	<input type="checkbox"/>	Show log of all actions and events
From	<input type="text"/>	Date of oldest recording
To	<input type="text"/>	Date of newest recording
Clear All Data...	<input type="checkbox"/>	Deletes all stored data

Setup menu (continued)

System – Date/Time

On the “Date/Time” menu

- time and date settings are made
- dates of public holidays are entered
- time synchronisation is configured.



Term	Symbol	Meaning
Date	<input type="text" value="..."/>	Date
Format	<input type="text" value="v"/>	Date display format
Time	<input type="text" value="..."/>	Time
Format	<input type="text" value="v"/>	Time display format
Time Zone	<input type="text" value="v"/>	Local time zone
Use Daylight Saving Time	<input checked="" type="checkbox"/>	Activates use of summertime Daylight Saving Time



Term	Symbol	Meaning
No.	<input type="text"/>	Number of entered public holiday
Date	<input type="text" value="..."/>	Date of each desired public holiday
X	<input type="text" value="..."/>	Delete holidays
+	<input type="text" value="..."/>	Set up holidays



Term	Symbol	Meaning
Automatic Sync.	<input checked="" type="checkbox"/>	Activates synchronisation with time server
Time Server	<input type="text"/>	IP address or domain name of time server
Interval	<input type="text" value="v"/>	Synchronisation interval
Last Sync-Time	<input type="text"/>	Time of last synchronisation
Run as Server	<input checked="" type="checkbox"/>	Activates use of the DVR as the time server

Setup menu (continued)

System – Storage

On the "Storage" menu the status and usage of the available storage media is displayed.

Setup Menu... → System → Storage → Information

Term	Symbol	Meaning
Type	<input type="text"/>	Type of storage medium
Capacity	<input type="text"/>	Size of storage medium
Format	<input type="checkbox"/>	Storage medium usage >>
Information	<input type="checkbox"/>	Time range of recorded data >>

→ Format

Term	Symbol	Meaning
Use as	<input type="text"/>	Use of storage medium:
		Record Not using
Partition	<input checked="" type="checkbox"/>	Activating permits:
		DVD burn Reserves a data buffer as a separate partition. This is essential for burning DVDs, and must be activated for a storage medium with „Record“ usage.
Format	<input type="checkbox"/>	Formatting deletes the recordings from the hard disk

→ Information

Term	Symbol	Meaning
From	<input type="text"/>	Start date of recorded data
To	<input type="text"/>	End date of recorded data
Clear	<input type="checkbox"/>	Delete all recordings

Setup menu (continued)

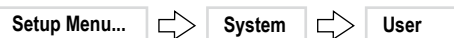
Setup Menu... ➞ System ➞ Storage ➞  Status

Term	Symbol	Meaning
Type	<input type="text"/>	Memory type
Disk Bad	<input type="text"/>	Data carrier status
Temperature	<input type="text"/>	Temperature status
S.M.A.R.T.	<input type="text"/>	Result of S.M.A.R.T. check



Setup menu (continued)

System – User

On the “User” menu the user groups and individual users are set up.



Term	Symbol	Meaning
Group & User, Group field	<input type="checkbox"/>	Assignment of group access privileges Table of possible group access privileges >>
Group & User, User field	<input type="text" value="..."/>	Set password
+ Group...	<input type="checkbox"/>	Add a new group
+ User...	<input type="checkbox"/>	Add a new user Set password
Auto Login	<input type="text" value="v"/>	User to be logged in automatically
Auto Logout	<input type="text" value="v"/>	Time after which logged-in user is automatically logged out

  **Table of possible group access privileges**

Group access privilege	Meaning
Shutdown	May shut down the DVR
Upgrade	May install a new firmware version
System Time Change	May change the time setting
Data Clear	May delete recording data
Setup	May make changes anywhere on the Setup menu
Colour Control	May change the picture settings
PTZ Control	May control PTZ cameras
Alarm-Out Control	May reset alarms
Covert Camera View	May view video images from covert cameras
System Check	May interrogate system status
Record Setup	May make changes to the Record menu
Search	May use Search mode
Clip-Copy	May copy video images

Setup menu (continued)

System – Shutdown

Setup Menu... → System → Shutdown...

System – Log out USER...

Setup Menu... → System → System – Log out USER...

Network – Network

On the "Network" menu all settings required to ensure network access are made.

Setup Menu... → Network → Network → Network

Term	Symbol	Meaning
Transfer Speed	<input type="text" value="..."/>	Transmission bandwidth:
		(bps) bits per second
		(ips) images per second
Quality	<input type="text" value="▼"/>	Quality of picture transmission via network (PAL):
		Very High 14,4 kB/picture
		High 9,6 kB/picture
		Standard 4,8 kB/picture
		Low 2,4 kB/picture

Setup menu (continued)



Term	Symbol	Meaning
		Type of connection to DVR:
Type	<input type="text" value="▼"/>	Manual <ul style="list-style-type: none"> Manual connection required input of: <ul style="list-style-type: none"> • IP Address • Gateway • Subnet Mask
		DHCP <ul style="list-style-type: none"> Automatic assignment of IP address of DNS server
		ADSL (with PPPoE) <ul style="list-style-type: none"> Requires following input as specified by provider: <ul style="list-style-type: none"> • ID • Password
		Note: Use of modem must not be activated.
DNS Server	<input type="text" value="..."/>	Address of DNS server
Port Number Setup...	<input type="text"/>	Definition of port numbers needed to access the DVR via the RAS software or via WebGuard




Term	Symbol	Meaning
Enable	<input checked="" type="checkbox"/>	Enables modem use Note: LAN type ADSL must not be enabled.
Baud Rate	<input type="text" value="▼"/>	Baud Rate
Data Bit	<input type="text" value="▼"/>	Number of data bits
Stop Bit	<input type="text" value="▼"/>	Number of stop bits
Parity	<input type="text" value="▼"/>	Parity

Setup menu (continued)

Setup Menu... ➔ Network ➔ Network ➔  DVRNS

Term	Symbol	Meaning
Use DVR Name Service	<input checked="" type="checkbox"/>	Enables the DVR name service
DVRNS Server	<input type="text" value="..."/>	IP address or domain name of DVRNS server DVRNS = Digital Video Recorder Name Service
Port	<input type="text" value="..."/>	Port for DVRNS
Use NAT	<input checked="" type="checkbox"/>	Enables NAT (Network Address Translation) use
DVR Name	<input type="text" value="..."/>	Name by which the DVR is to be registered with the DVRNS server
Check	<input type="text"/>	Check DVR name for usability after entering
Help Desk	<input type="text"/>	Information from help desk if DVRNS setting correct

Setup Menu... ➔ Network ➔ Network ➔  WebGuard

Term	Symbol	Meaning
Use WebGuard Service	<input checked="" type="checkbox"/>	WebGuard Service activated
Port	<input type="text" value="..."/>	Port for the WebGuard Service

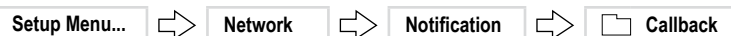
Setup menu (continued)

Network – Notification

On the “Notification” menu the method of notification is defined.



Term	Symbol	Meaning
Enable	<input checked="" type="checkbox"/>	Enables notification by e-mail
SMTP Server	<input type="text" value="..."/>	IP address or domain name of SMTP server
Port	<input type="text" value="..."/>	Port for SMTP server Default is port 25.
Use SSL/TLS	<input checked="" type="checkbox"/>	Activates the Encryption
Authentication	<input type="checkbox"/>	Login to SMTP server
Sender	<input type="text" value="..."/>	E-mail address of sender
Recipient	<input type="text" value="..."/>	E-mail address of recipient



Term	Symbol	Meaning
LAN	<input checked="" type="checkbox"/>	Enables notification of an RAS via LAN
No.	<input type="text" value="..."/>	Number of IP address
IP Address	<input type="text" value="..."/>	IP addresses of RAS PCs
Retry	<input type="text" value="..."/>	Number of notification attempts by the DVR in the event of an error
Modem	<input checked="" type="checkbox"/>	Enables notification of an RAS via modem
Remote Server Phone Number	<input type="text" value="..."/>	Telephone number of the modem on the notified RAS PC
Outside Line Call	<input type="text" value="..."/>	Outside line code for external calls, if DVR's modem is connected to a PABX system
Callback Phone Number	<input type="text" value="..."/>	Telephone number of DVR's modem The RAS PC contacts the DVR on this number.

Setup menu (continued)

Devices – Camera

On the “Camera” menu the cameras are configured.



Term	Symbol	Meaning	
No.	<input checked="" type="checkbox"/>	Activates the cameras	
Title	<input type="text" value="..."/>	Name of camera	
Use	<input type="text" value="Normal"/>	Visibility of recordings and camera data depending on user access privileges:	
		Normal	All users see all camera data and all recordings
		Covert1	Users without relevant access see camera title, status symbol, but no recordings
		Covert2	Users without relevant access see only camera title, but no recordings



Term	Symbol	Meaning
No.	<input type="text"/>	Number of camera
Product	<input type="text" value="PTZ"/>	PTZ camera type as per specified list
ID	<input type="text" value="..."/>	Unique ID of PTZ camera
Port	<input type="text" value="..."/>	Interface type of PTZ cameras
Setup...	<input type="checkbox"/>	Settings as specified by PTZ camera manufacturer:
		Baud Rate
		Data Bit
		Stop Bit
		Parity

Setup menu (continued)

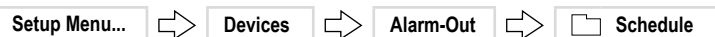
Devices – Alarm-Out

On the “Alarm-Out” menu the alarm outputs are configured.

- “Settings” tab: The alarm outputs are configured.
- “Schedule” tab: Time slots are defined in which the alarm outputs respond in specific ways.



Term	Symbol	Meaning	
No.	<input type="text"/>	Number of alarm output	
Title	<input type="text"/>	Name of alarm output	
Type	<input type="text"/>	Contact method of alarm output:	
		NO	Normally Open
		NC	Normally Closed
Dwell Time	<input type="text"/>	Duration of alarm signal	



Term	Symbol	Meaning	
No.	<input type="text"/>	Number of schedule entry	
Day	<input type="text"/>	Day of the week	
Range	<input type="text"/>	Time range at 15-minute intervals	
Mode	<input type="text"/>	Response in defined period:	
		Event	Alarm in response to event
		On	Continuous alarm
Channels	<input type="checkbox"/> <input checked="" type="checkbox"/>	Off	No alarm
		Enable	<ul style="list-style-type: none"> • Alarm outputs • internal beep by DVR
X	<input type="text"/>	Delete schedule entry	
+	<input type="text"/>	Set up schedule entry	

Setup menu (continued)

Devices – Display

On the “Display” menu the mode of on-screen display is configured.

- “OSD” tab: Specify what additional information is displayed on-screen.
- “Main Monitor” tab: Specify how the camera images are displayed on the main monitor.
- “Spot Monitor” tab: Specify which cameras are displayed on the spot monitors.



Term	Symbol	Displayed symbol	Meaning
Status			Activates display of:
Zoom	<input checked="" type="checkbox"/>		Visible when Zoom mode enabled
Network	<input checked="" type="checkbox"/>		Visible when DVR operating in a network
Freeze & Sequence	<input checked="" type="checkbox"/>		<ul style="list-style-type: none"> • Freeze • Visible when Sequence mode enabled
Screen Group	<input checked="" type="checkbox"/>	1/4	Displays number of groups, and their ID numbers
Free Space	<input checked="" type="checkbox"/>		<ul style="list-style-type: none"> • Visible when Recycle mode enabled • Remaining hard disk capacity, if Recycle mode not selected
Date	<input checked="" type="checkbox"/>	-	Date
Time	<input checked="" type="checkbox"/>	-	Time
User Name	<input checked="" type="checkbox"/>	-	Display of user name
Camera			Activates display of:
No.	<input checked="" type="checkbox"/>	-	Display of camera number
Title	<input checked="" type="checkbox"/>	-	Display of camera title
Record	<input checked="" type="checkbox"/>		Display of Record symbols
PTZ	<input checked="" type="checkbox"/>	PTZ	Visible when PTZ camera is displayed
Text-In	<input checked="" type="checkbox"/>	-	Display of character string
Display Dwell	<input type="text" value=""/>	-	Text In Dwell Time
Transparency	<input type="text" value="..."/>	-	Transparency of menu screens
OSD Margin...	<input type="text" value="..."/>	-	Distance of displayed symbols from screen margin

Setup menu (continued)

Setup Menu... → Devices → Display → Main Monitor

Term	Symbol	Meaning
		Modes of sequences in multiple playback:
Mode	<input type="text"/>	Full Sequence All cameras are switched through sequentially.
		Cameo Only the image at the bottom right is switched through; cameras in „Covert“ mode are not displayed to users without „Covert“ access.
Interval	<input type="text"/>	Time interval between picture refresh
Event Monitoring On	<input checked="" type="checkbox"/>	Displays image of relevant camera in full-screen mode when an event occurs

Setup Menu... → Devices → Display → Spot Monitor

Term	Symbol	Meaning
No.	<input type="text"/>	Number of spot monitor output
Channels	<input type="text"/>	<ul style="list-style-type: none"> • Cameras • Display time of recordings from cameras on spot monitor

Devices – Remote Control

On the “Remote Control” menu the remote control function is configured.

Setup Menu... → Devices → Remote Control

Term	Symbol	Meaning
Port	<input type="text"/>	Interface type of remote control
		Setup as specified by manufacturer:
Setup...	<input type="checkbox"/>	Baud Rate
		Data Bit
		Stop Bit
		Parity
Remote Control Product	<input type="text"/>	Remote control type as per specified list

Setup menu (continued)

Record – Record

On the “Record” menu the basic settings for recordings and their quality are made.



Term	Symbol	Meaning
Recycle	<input checked="" type="checkbox"/>	Enables automatic overwriting of the oldest recordings when the hard disk is full Note: If not enabled, recording ends when the hard disk is full.
Resolution	<input type="text" value="v"/>	Quality of recorded images Standard CIF High 2CIF
Event Record Dwell	<input type="text" value="v"/>	Duration of recording when an event occurs
Auto Deletion	<input type="text" value="■"/>	Specify time after which automatically deleted
Use Panic Recording	<input checked="" type="checkbox"/>	Enables the panic recording function
Panic Recording Duration	<input type="text" value="v"/>	Duration of panic recording No Limit End panic recording by pressing PANIC button xx min. Panic recording ends after preset time or by pressing PANIC button
ips	<input type="text" value="v"/>	Number of recorded images per second in panic recording
Quality	<input type="text" value="v"/>	Picture quality of the recorded images in panic recording

Setup menu (continued)

Record – Schedule

On the “Schedule” menu the schedule for recording is defined.



Term	Symbol	Meaning
Schedule On	<input checked="" type="checkbox"/>	Enables schedule entries Note: A recording is made only if schedule entries are enabled. Otherwise only panic recording is possible.
		Time schedule mode for events:
	<input type="text" value="Simple"/>	Simple Mode
	<input type="text" value="Advanced"/>	Advanced Mode
		Note: All event and action states are reset when the mode is changed.
No.	<input type="text"/>	Number of schedule entry
Day	<input type="text" value="▼"/>	Day of the week
Range	<input type="text" value="..."/>	Time range at 15-minute intervals
		Response:
		No Record -
		Time Always record in the defined time slot in the quality set for “Time” mode
Mode	<input type="text" value="▼"/>	Event Record only in case of event in the defined time slot in the quality set for „Event“ mode
		Time & Event Always record in the defined time slot in the quality set for “Time” mode, also in case of event in the defined time slot in the quality set for “Event” mode
Channels	<input type="checkbox"/> <input checked="" type="checkbox"/>	Assignment of cameras to schedule
		Picture data settings:
Settings	<input type="checkbox"/> <input type="text" value="▼"/>	ips Number of recorded images per second
		Quality Picture quality of recorded images

Setup menu (continued)

Term	Symbol	Meaning
X	<input type="text" value="..."/>	Delete schedule entry
+	<input type="text" value="..."/>	Set up schedule entry
Picture data defaults in Time and Event modes:		
Default...	<input type="checkbox"/>	ips Number of recorded images per second
	<input type="text" value="..."/>	Quality Picture quality of recorded images

Record – Pre-Event

On the “Pre-Event” menu the settings for recording prior to the event are made.



Term	Symbol	Meaning
No.	<input checked="" type="checkbox"/>	Activates the cameras
ips	<input type="text" value="..."/>	Number of recorded images per second prior to the event
Quality	<input type="text" value="..."/>	Picture quality of the recorded images prior to the event
Dwell	<input type="text" value="..."/>	Recording time prior to the event
		Note: The pre-event recording memory capacity is limited. Consequently, the maximum recording time prior to the event, the number of recorded images and picture quality are inter-dependent.

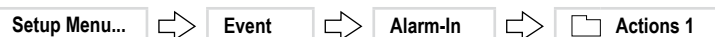
Setup menu (continued)

Event – Alarm-In

On the “Alarm-In” menu the alarm inputs and responses to events are configured.



Term	Symbol	Meaning
No.	<input checked="" type="checkbox"/>	Enables the alarm inputs
Title	<input type="text" value="..."/>	Name of alarm input
Type	<input type="text" value="v"/>	Contact method of alarm input: NO Normally Open NC Normally Closed
Panic Record	<input type="text" value="v"/>	Panic recording of alarm input



Term	Symbol	Meaning
No.	<input type="text" value=""/>	Number of alarm input
Record	<input type="text" value="..."/>	Assignment of cameras to record in event of alarm These cameras must be in “Event” or “Time and Event” mode within the time slot: Setup Menu... > Record > Schedule
Alarm-Out	<input type="text" value="..."/> <input checked="" type="checkbox"/>	Assign and enable <ul style="list-style-type: none"> alarm outputs internal beep by DVR These alarm outputs and the internal beep must be enabled within the time slot: Setup Menu... > Devices > Alarm-Out > Schedule
Notify	<input type="text" value="..."/> <input checked="" type="checkbox"/>	Assign and enable notifications: Mail Modem LAN 1 to LAN 5 Alert Window The selected function must be enabled: Setup Menu... > Network > Notification

Setup menu (continued)

Setup Menu... → Event → Alarm-In → Actions 2

Term	Symbol	Meaning
No.	<input type="text"/>	Number of alarm input
PTZ	<input type="text" value="..."/> <input type="text" value="▼"/>	Select PTZ cameras to record in event of alarm and select the desired settings
Spot Monitor	<input type="text" value="..."/> <input type="text" value="▼"/>	Select spot monitor on which camera image is displayed in event of alarm

Setup menu (continued)

Event – Motion Detection

On the “Motion Detection” menu the motion-sensitive zones are defined and responses to events configured.



Term	Symbol	Meaning
No.	<input checked="" type="checkbox"/>	Enables motion detection for the camera
Sensitivity	<input type="text" value="..."/>	Sensitivity of motion detection:
		Daytime
Zone	<input type="text" value="..."/>	Nighttime
		Select the motion-sensitive blocks within the time slot
		Left mouse button functions:
		<ul style="list-style-type: none"> ● Click to select/deselect ● Click - hold down - drag to define a zone for selection/deletion/back
		Right mouse button functions or menu in time slot to select blocks:
		Select Select complete row of blocks
		Clear Clear selection of a row
Reverse Reverse selection of a row		
Min. Blocks	<input type="text" value="..."/>	Select All Select all blocks
		Clear All Clear selection of all blocks
		Reverse All Reverse selection of all blocks
		Specify in how many motion-sensitive blocks motion must be detected as a minimum to trigger an alarm:
		Daytime
Zone View	<input checked="" type="checkbox"/>	Nighttime
		Mark the motion-sensitive zones (red in event of motion)
Motion Ignoring Interval	<input type="text" value="..."/>	Time interval between 2 events logged as separate events:
		Never Each motion detection is logged as a separate event.
Daytime Setup...	<input type="text" value="..."/>	Definition of “Daytime” time range

Setup menu (continued)

Setup Menu... → Event → Motion Detection → Actions 1

Term	Symbol	Meaning
No.	<input type="text"/>	Number of alarm input
Record	<input type="text" value="..."/>	Assignment of cameras to record in event of alarm These cameras must be in "Event" or "Time and Event" mode within the time slot: Setup Menu... > Record > Schedule
Alarm-Out	<input type="text" value="..."/> <input checked="" type="checkbox"/>	Assign and enable <ul style="list-style-type: none"> alarm outputs internal beep by DVR These alarm outputs and the internal beep must be enabled within the time slot: Setup Menu... > Devices > Alarm-Out > Schedule
Notify	<input type="text" value="..."/> <input checked="" type="checkbox"/>	Assign and enable notifications: Mail Modem LAN 1 to LAN 5 Alert Window The selected function must be enabled: Setup Menu... > Network > Notification

Setup Menu... → Event → Motion Detection → Actions 2

Term	Symbol	Meaning
No.	<input type="text"/>	Number of alarm input
PTZ	<input type="text" value="..."/> <input type="text" value="▼"/>	Select PTZ cameras to record in event of alarm and select the desired settings
Spot Monitor	<input type="text" value="..."/> <input type="text" value="▼"/>	Select spot monitor on which camera image is displayed in event of alarm

Setup menu (continued)

Event – Video Loss

On the “Video Loss” menu checking for covert cameras and the responses to events are configured.



Term	Symbol	Meaning
Check Obscuration		Sensitivity of check as to whether camera is covert:
		Never not checked
		15 very sensitive



Term	Symbol	Meaning
No.	<input type="text"/>	Number of covert camera
Record	<input type="text"/> <input checked="" type="checkbox"/>	Assignment of cameras to record in event of alarm These cameras must be in “Event” or “Time and Event” mode within the time slot: Setup Menu... > Record > Schedule
		Assign and enable <ul style="list-style-type: none"> • alarm outputs • internal beep by DVR These alarm outputs and the internal beep must be enabled within the time slot: Setup Menu... > Devices > Alarm-Out > Schedule
Alarm-Out	<input type="text"/> <input checked="" type="checkbox"/>	Assign and enable notifications
		Mail
Notify	<input type="text"/> <input checked="" type="checkbox"/>	Modem
		LAN 1 to LAN 5
		Alert Window
		The selected function must be enabled: Setup Menu... > Network > Notification

Setup menu (continued)



Term	Symbol	Meaning
No.	<input type="text"/>	Number of covert camera
PTZ	<input type="text" value="..."/> <input type="text" value="▼"/>	Select PTZ cameras to record in event of alarm and select the desired settings
Spot Monitor	<input type="text" value="..."/> <input type="text" value="▼"/>	Select spot monitor on which camera image is displayed in event of alarm

Setup menu (continued)

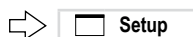
Event – Text-In

On the “Text-In” menu the text input device is defined and the responses to text input are configured.



Term	Symbol	Meaning
No.	<input type="text"/>	Number of text input device
Setup	<input type="text"/>	Configuration of text input >>
Title	<input type="text" value="..."/>	Name of text input

Setup menu (continued)



Term	Symbol	Meaning
Port	<input type="text" value="v"/>	Interface
		Setting as specified by manufacturer of text input device (ATM, cash-till etc.):
Setup...	<input type="checkbox"/>	Baud Rate
		Data Bit
		Stop Bit
		Parity
		Type of text input:
Text-In Product	<input type="text" value="v"/>	Generic Text
		Epson
Transaction Start	<input type="text" value="..."/>	Character string with which text input must start for the DVR to respond
Any Character	<input checked="" type="checkbox"/>	DVR responds to any character
Transaction End	<input type="text" value="..."/>	Character string with which text input must end for the DVR to respond
0 more line(s)	<input type="text" value="v"/>	Enables recording of n more lines
Line Delimiter	<input type="text" value="..."/>	Line delimiter as specified by the text input device manufacturer: ^J for LF or ^M for CR
Ignore String	<input type="text" value="..."/>	Character string in the text input which the DVR is to ignore All transmittable character strings are specified by the text input device manufacturer.
Case Sensitive	<input checked="" type="checkbox"/>	Case sensitivity according to text input device manufacturer's specification
Time Out	<input type="text" value="v"/>	Waiting time after the last string

Setup menu (continued)

Setup Menu... → Event → Text-In → Actions 1

Term	Symbol	Meaning
No.	<input type="text"/>	Number of alarm input
Record	<input type="text" value="..."/>	Assignment of cameras to record in event of alarm These cameras must be in "Event" or "Time and Event" mode within the time slot: Setup Menu... > Record > Schedule
Alarm-Out	<input type="text" value="..."/> <input checked="" type="checkbox"/>	Assign and enable <ul style="list-style-type: none"> alarm outputs internal beep by DVR These alarm outputs and the internal beep must be enabled within the time slot: Setup Menu... > Devices > Alarm-Out > Schedule
Notify	<input type="text" value="..."/> <input checked="" type="checkbox"/>	Assign and enable notifications: Mail Modem LAN 1 to LAN 5 Alert Window The selected function must be enabled: Setup Menu... > Network > Notification

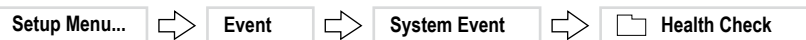
Setup Menu... → Event → Text-In → Actions 2

Term	Symbol	Meaning
No.	<input type="text"/>	Number of alarm input
PTZ	<input type="text" value="..."/> <input type="text" value="▼"/>	Select PTZ cameras to record in event of alarm and select the desired settings
Spot Monitor	<input type="text" value="..."/> <input type="text" value="▼"/>	Select spot monitor on which camera image is displayed in event of alarm

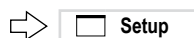
Setup menu (continued)

Event – System Event

On the “System Event” menu the self-diagnostics and corresponding messages are configured..



Term	Symbol	Meaning
System	<input type="text" value="v"/>	System self-diagnostics interval
Check Recording	<input type="checkbox"/>	Setup... . Configuration of schedule >>
Check Alarm-In	<input type="text" value="v"/> <input type="text"/>	Interval and status for checking alarm inputs



Term	Symbol	Meaning
Schedule On	<input checked="" type="checkbox"/>	Enables schedule entries
No.	<input type="text"/>	Number of schedule entry
Day	<input type="text" value="v"/>	Day of the week
Range	<input type="text" value="..."/>	Time range at 15-minute intervals
Interval	<input type="text" value="v"/>	Checking interval
X	<input type="text" value="..."/>	Delete schedule entry
+	<input type="text" value="..."/>	Set up schedule entry



Term	Symbol	Meaning
Disk Bad Notify	<input type="text" value="v"/>	Percentage of bad sectors on hard disk as from which an alarm is triggered
Disk Almost Full Notify	<input type="text" value="v"/>	Percentage hard disk space available as from which “Disk Almost Full” alarm is triggered
Disk S.M.A.R.T.	<input type="checkbox"/>	Input of the temperature threshold (in degrees centigrade or Fahrenheit) for the data carrier S.M.A.R.T. test. If the temperature limit is exceeded an alarm is triggered. For details of your hard disk’s temperature limit refer to the manufacturer’s manual.

Setup menu (continued)

Setup Menu... → Event → System Event → Actions

Term	Symbol	Meaning
		Events (based on checks):
		System System check failed
		Panic Record Panic recording in progress
		Check Recording Recording check failed
		Check Alarm-In Check of alarm inputs failed
Event	<input type="text"/>	Disk Almost Full Preset limit value for hard disk capacity reached
		Disk Full Hard disk full
		Disk Bad Preset limit value for number of bad sectors reached
		Disk Temperature Preset temperature limit reached
		Disk S.M.A.R.T. S.M.A.R.T. check failed
Alarm-Out	<input type="text"/> <input checked="" type="checkbox"/>	Assign and enable <ul style="list-style-type: none"> alarm outputs internal beep by DVR Note: Not possible for system event and panic recording
		Assign and enable notifications:
		Mail
		Modem (not in case of system event)
Notify	<input type="text"/> <input checked="" type="checkbox"/>	LAN 1 to LAN 5 (not in case of system event)
		Alert Window (not in case of system event)
		The selected function must be enabled: Setup Menu... > Network > Notification

Setup menu (continued)

Event – Event Status

The “Event Status” menu indicates the status of all possible events:

- Grey text: Event detection not enabled
- White text: Event detection enabled
- Flashing border: Message – acute event for 5 sec
- Yellow field: Pending event

Setup Menu... ➡ Event ➡ Event Status ➡ Event Status

Term	Event
Alarm-In	At alarm input 1 to 16
Check Alarm-In	Error detected at one of alarm inputs 1 to 16
Motion	Motion detected on camera 1 to 16
Video Loss	Video loss on camera 1 to 16
Text-In	Text input on text input device 1 to 16
Panic Record	Panic recording
Check Recording	On checking the recording
Disk Almost Full	On checking the data medium (only if DVR is not operating in Overwrite mode)
Disk Full	On checking the data medium (only if DVR is not operating in Overwrite mode)

Setup Menu... ➡ Event ➡ Event Status ➡ Storage

Term	Meaning
Type	Memory type
Disk Bad	Data carrier status
Temperature	Data carrier status
S.M.A.R.T.	Result of S.M.A.R.T. check

WebGuard – WebWatch controls

The following diagram and table set out the functions on the Web Watch:



No.	Designation	Function
1		WebGuard Logging out
2		Open Search (WebSearch)
3	DVR	Date/Time, IP Address, User Name
4		Image display modes
5	Camera image	Camera name, Image Aspect Ratio, Anti-Aliasing
6		Select cameras
7		Image optimisation
		PTZ camera functions
8		Activate Alarm Outputs
		Save current image as BMP or JPEG file
9		Set up image drawing mode
10	Display	Event log

WebGuard – WebSearch controls

The following diagram and table set out the functions on the Web Search:



No.	Designation	Function
1		WebGuard Logging out
2		Open Display (WebWatch)
3	DVR	Date/Time, IP Address, User Name
4		Zoom On/Off and image optimisation
5	Camera image	Camera name, Image Aspect Ratio, Deinterlacing, Anti-Aliasing
6		Playback functions
7		Image display modes
8	Time bar	Calendar search and event log
9		Search for date/time
10		Calendar search
11		Event Search
10		Reload recording data
11		Set up image drawing mode

Using WebGuard

WebGuard permits the following, using an Internet connection

- View current video images
- Search and view recorded records

Requirements:

- The Internet connection is set up and the WebGuard service is activated.
- A PC with Internet access to the DVR must be available.
- Internet Explorer must be installed on the PC.

Using WebGuard

Step	Action
1	Ask your System Administrator about the current access data.
2	Start Internet Explorer. Enter the following informations in the adress field:
3	- http://IP address:Port number (default port address 12088) - http://DVRNS server address/DVR name - http://www.dvronline.net
4	Enter your User Name (admin), Password (default = blank) and if necessary the port addresses.
5	Select Login. Result: WebGuard window is opened.

Specifications DLR3-08/xxxSDV

Model	DLR3-08/250SDV (Additional models upon request)
EDP No.	72809
Video standard	PAL/NTSC (auto detection)
Remark	-
Event logs	Unlimited number of entries for alarm/event/text messages, loss of signal
Security against unauthorised use	Key locking, 64 user groups with programmable access (up to 256 users)
Transmission rate	100 images per sec (PAL)
Alarm triggering	E-mail, pager, remote SW (RAS)
Alarm activation	Automatic multi-screen display of alarm images programmable
Remote Control	-
Text display interface	ATM/POS, 10 channels max.
Monitor display	Real-time playback: 25 field images per sec (PAL), 30 field images per sec (NTSC) per camera
Covert camera mode	Programmable
Time synchronisation	Network time log, network time server
System change log	Up to 5000 entries for login/logout, configuration changes, remote access, change of signal connection, disk read/write errors
Zoom function	2x
Playback	Frame image, 4-/8-channel split, PIP
Post-alarm recording	Up to 15 minutes
VGA	-
Control interface	RS-485 port for PTZ control (verified logs: eneo-Fastrax, Pelco P/D) or keyboard connection for remote control
Activity detection	Programmable 16 x 12 (192) grid, 5 sensitivity settings
Simplex/Duplex/Triplex/ Pentaplex mode	Duplex
Video inputs	8x 1 Vp-p, (F)BAS, 75 Ohm, BNC, loop-through
Monitor outputs	1x spot output 1 Vp-p, (F)BAS, 75 Ohm, BNC
Video output	1x 1 Vp-p, (F)BAS, 75 Ohm, BNC; 1x S-VHS, S= 1 Vp-p, C= 0.3 Vp-p, 75 Ohm
Resolution	720 x 576 pixels (display)
Compression method	MPEG-4, higher compression rates with same picture quality enable maximum recording times
Recording speed	100 field image per sec at CIF resolution (336 x 272 pixels/PAL), □ 50 field image per sec at 2CIF resolution (672 x 272 pixels/PAL)
Picture size	Basic: 2/2.4 kB; Standard: 4/4.8 kB; High: 8/9.6 kB; Very high: 12/14.4 kB (NTSC/PAL). 2 times larger in High Resolution mode

Specifications DLR3-08/xxxSDV, continued

Model	DLR3-08/250SDV (Additional models upon request)
Hard disk capacity	250 GB SATA hard disk, expandable to as many as 3 internal hard disks Models with higher hard disk capacity upon request
Playback speed	25 half-screen images per sec at CIF resolution (336 x 272 pixels/PAL) and Duplex
Export of picture data	via USB 2.0, CD writer. Network data export: Clip Player, AVI, JPG, BMP
Alarm inputs	8x TTL, programmable as NC/NO (terminal strip)
Alarm outputs	2x relay output (terminal strip)
Alarm reset	1x TTL (terminal strip)
Alarm messages	System error, hard disk error
Pre-alarm recording	Up to 30 minutes
Recording medium	SATA hard disks, built-in DVD-RW writer
Archiving	-
Menu languages	German, English, Italian, French, Spanish, Polish, Russian, Czech, Hungarian
Ethernet port	10Base-T, 100Base-TX, RJ-45
Remote software	For remote administration and image search function (RAS plus included)
Ports	2x USB, 1x RS-485, 1x RS-232 (remote control/configuration or modem)
Power Supply	100 VAC ~ 230 VAC, 50/60 Hz
Power consumption	approx. 80 W (100 W when 4 hard disk drives are installed)
Temperature range	5°C to 40°C
Housing	Metal with plastic front panel
Colour	Pantone 427C
Dimensions (H x W x D)	88 x 430 x 393 mm
Weight	approx. 7.4 kg

Note: Please refer to www.videor.com for further information.

Specifications DLR3-16/xxxSDV

Model	DLR3-16/250SDV (Additional models upon request)
EDP No.	72814
Video standard	PAL/NTSC (auto detection)
Remark	-
Event logs	Unlimited number of entries for alarm/event/text messages, loss of signal
Security against unauthorised use	Key locking, 64 user groups with programmable access (up to 256 users)
Transmission rate	100 images per sec (PAL)
Alarm triggering	E-mail, pager, remote SW (RAS)
Alarm activation	Automatic multi-screen display of alarm images programmable
Remote Control	-
Text display interface	ATM/POS, 10 channels max.
Monitor display	Real-time playback: 25 field images per sec (PAL), 30 field images per sec (NTSC) per camera
Covert camera mode	Programmable
Time synchronisation	Network time log, network time server
System change log	Up to 5000 entries for login/logout, configuration changes, remote access, change of signal connection, disk read/write errors
Zoom function	2x
Playback	Frame image, 4-/9-/16-channel split, PIP
Post-alarm recording	Up to 15 minutes
VGA	-
Control interface	RS-485 port for PTZ control (verified logs: eneo-Fastrax, Pelco P/D) or keyboard connection for remote control
Activity detection	Programmable 16 x 12 (192) grid, 5 sensitivity settings
Simplex/Duplex/Triplex/Pentaplex mode	Duplex
Video inputs	16x 1 Vp-p, (F)BAS, 75 Ohm, BNC, loop-through
Monitor outputs	1x Spot-Outputs 1Vss, (F)BAS, 75 Ohm, BNC
Video output	1x 1 Vp-p, (F)BAS, 75 Ohm, BNC; 1x S-VHS, S= 1 Vp-p, C= 0.3 Vp-p, 75 Ohm
Resolution	720 x 576 pixels (display)
Compression method	MPEG-4, higher compression rates with same picture quality enable maximum recording times
Recording speed	100 field image per sec at CIF resolution (336 x 272 pixels/PAL), □ 50 field image per sec at 2CIF resolution (672 x 272 pixels/PAL)
Picture size	Basic: 2/2.4 kB; Standard: 4/4.8 kB; High: 8/9.6 kB; Very high: 12/14.4 kB (NTSC/PAL). 2 times larger in High Resolution mode

Specifications DLR3-16/xxxSDV, continued

Model	DLR3-16/250SDV (Additional models upon request)
Hard disk capacity	250 GB SATA hard disk, expandable to as many as 3 internal hard disks Models with higher hard disk capacity upon request
Playback speed	25 half-screen images per sec at CIF resolution (336 x 272 pixels/PAL) and Duplex
Export of picture data	via USB 2.0, CD writer. Network data export: Clip Player, AVI, JPG, BMP
Alarm inputs	16x TTL, programmable as NC/NO (terminal strip)
Alarm outputs	2x relay output (terminal strip)
Alarm reset	1x TTL (terminal strip)
Alarm messages	System error, hard disk error
Pre-alarm recording	Up to 30 minutes
Recording medium	SATA hard disks, built-in DVD-RW writer
Archiving	-
Menu languages	German, English, Italian, French, Spanish, Polish, Russian, Czech, Hungarian
Ethernet port	10Base-T, 100Base-TX, RJ-45
Remote software	For remote administration and image search function (RAS plus included)
Ports	2x USB, 1x RS-485, 1x RS-232 (remote control/configuration or modem)
Power Supply	100 VAC ~ 230 VAC, 50/60 Hz
Power consumption	approx. 80 W (100 W when 4 hard disk drives are installed)
Temperature range	5°C to 40°C
Housing	Metal with plastic front panel
Colour	Pantone 427C
Dimensions (H x W x D)	88 x 430 x 393 mm
Weight	approx. 7.4 kg

Note: Please refer to www.videor.com for further information.

Accessories

EDP No.	Short description
74088	System keyboard with 3-axis joystick
74092	System keyboard with joystick, 5" monitor
71902	USB mouse for DVR series DXR, DLR3
on request	Hard disks with different storage capacities

Note: Please refer to www.videor.com for further information.

Supported PTZ cameras

Manufacturer	Designation
Costar	CDC 2500
Dyna Color	CDC2400
Chilsung	CRD-J6416
Fine	CRR-1660s
Pelco	D-log
Dennard	Dennard2060
Tokina	DMP-1223
Dongyang Unitech	DRX-500
Dongyang	DY-255RXC
Sensormatic	Delta Dome II/Ultra IV
Eneo	Fastrax
Eneo	Fastrax FIIE
Philips	G3 Basic AutoDome
LG Honeywell)	GRU604A
JVC	TK-S576
Sensormatic	Ultra VI
Canon	VC-C4
Canon	VC-C50i
Inter-M	VRX-2201
Vicon	Vicon
Hitron	22x AF Zoom
360Vision	VisionDome
Panasonic	WJ-SX550A
Panasonic	WV-CS850/854
CBC	ZC-SD622J
Samsung	Zoom Camera
Honeywell	HDC-655
LG Honeywell	HSD-25X
Honeywell	HSDN-251
Idis	IRX-100
Ultrak	KD6
Ultrak	KD6 Z-series
Kalatel	KTD-312
LG	LPT-A100L
	Novus-C

Manufacturer	Designation
Samsung	MRX-1000
Ademco Video	Orbiter Microsphere
SysMania	ORX_1000
Linlin	PIH-717
ELMO	PTC-200C/CVAS
ELMO	PTC-250C
Pacom	Pacom 2036
Dongyang	Power Controller
Sungjin	Receiver/MPU
Costar	SIC722V
Samsung Techwin	SPD 1600
Samsung	Samsung Dome
Pelco	Spectra Dome
Samsung Techwin	SRX-100B
Hitron	Speed Dome

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Notes on disposal

Correct disposal of this DVR



WEEE (Waste Electrical & Electronic Equipment)

Applicable in the member states of the European Union and other European countries with a separate collection system

The marking on the DVR and on the documentation stipulates that it must not be thrown away in normal domestic waste at the end of its useful life.

General rules

- ▶ Avoid uncontrolled waste disposal: Please dispose of this DVR separately from other waste, so as to avoid posing a hazard to the environment and to human health.
- ▶ Recycle the DVR in order to aid the sustainable reuse of material resources.

Private users

- ▶ Contact the retailer from whom you purchased the DVR or your competent local authority to find out how you can recycle the DVR in an environmentally friendly way.

Commercial users

- ▶ This DVR must not be thrown away with trade waste. To clarify the conditions of disposal, check your purchase contract or contact your supplier.



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