# **Operating Instructions**

Digital Video Recorder

Models: DTR-6108/xxxD

DTR-6116/xxxD





## 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.

# **Table of contents**

Overview	7
Package contents	7
Basic functions	7
Features	7
Requirements for operation	7
Control options	7
Connections on the rear	8
Front panel controls	9
Key to controls	10
Function buttons	10
PTZ camera functions	10
Playback functions	10
Remote control functions	11
Playback functions	11
Menu overview	12
Accessing the menus	14
Accessing the Display menu	14
Accessing the PTZ menu	14
Accessing the Setup menu	15
Accessing the Search menu	15
Getting started	16
Checklist for DVR operation	16
Connecting the remote control and DVR	16
Switching on the DVR	17
Switching off the DVR	17
Administration	18
Saving your system setup	18
Loading your system setup	18
Deleting recordings	19
Downloading software updates	19
Hiding from specific users	19
Restoring factory defaults	20
Mirroring of hard disks	21
Determining the memory requirement of a recording	22
Searching for recordings	23
Using calendar search	25
Using record table search	26
Using event log search	27
Using text-in search	28
Using motion search	30
Conving recordings	31

# **Table of contents**

Menu descriptions – Setup menu	32
System – Information	33
System – Date/Time	34
System – Storage	35
System – User	37
System – Shutdown	38
System – Log out user1	38
Network – Network	38
Network – Notification	41
Devices – Camera	42
Devices – Audio	43
Devices – Alarm-Out	44
Devices – Display	45
Devices – Remote Control	47
Record – Record	48
Record – Schedule	49
Record – Pre-Event	50
Record – Archive	51
Event – Alarm-In	52
Event – Motion Detection	54
Event – Video Loss	56
Event – Text-In	58
Event – System Event	61
Event – Event Status	63
WebGuard – WebWatch controls	64
WebGuard – WebSearch controls	65
Using WebGuard	66
Specifications DTR-6108	67
Specifications DTR-6116	69
Accessories	71
Supported PTZ cameras	72
Index	73
Notes on disposal	76

### **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
- · Screws for attaching SCSI Connector
- · Mounting screws and guides for installation of hard disk drives
- Infrared remote control

#### **Basic functions**

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

#### Features

- MPEG-4 compression / triplex mode
- 8 or 16 loop-through inputs / VGA, S-VHS/FBAS outputs
- Audio and alarm inputs / outputs
- Max. recording speed DTR-6108/xxxD: 200 field images per sec (PAL) / D1: 50 field images per sec (PAL)
- Max. recording speed DTR-6116/xxxD: 400 field images per sec (PAL) / D1: 100 field images per sec (PAL)
- Memory capacity 250 GB / 500 GB / 750 GB / 1000 GB / 1750 GB
- Maximum video resolution 720 x 576 pixels
- SCSI port for archiving / memory expansion
- · Various recording criteria possible
- Archiving/image transfer via USB and DVD-RW
- ATM/POS text display / 2x to 4x digital zoom
- Telemetry control functions via RS-485 port
- Network port (Ethernet) / IR remote control

#### Requirements for operation

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

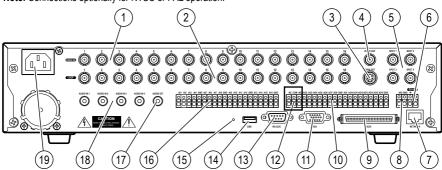
Note: Please refer to www.videor.com for further information.

### **Control options**

- Front panel
- Remote Control
- Mouse
- WebGuard
- RAS program

# **Connections on the rear**

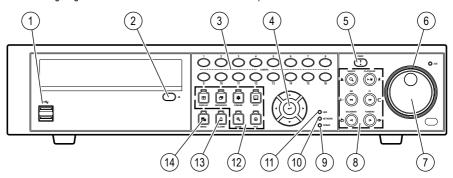
Note: Connections optionally for NTSC or PAL operation.



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	SVHS OUT	S-VHS output	Monitors
4	VIDEO OUT	Video output	Monitors
5	SPOT1 - SPOT4	Max. 4 video outputs	Spot monitors
6	RS-485	External interface	Keyboard, PTZ camera
7	NETWORK	Network	Network cable
8	ARI/GND	Reset alarm with external signal	Switch
9	SCSI	External storage media	Hard disk
10	AO2 - AO16	Alarm outputs for external devices	Siren, flashing light
11	VGA	PC monitor	PC monitor
12	NC, COM, NO	Relay alarm output for external device	Siren, flashing light
13	RS-232C	External interface	Remote Control
14	USB	External interface	Drive, mouse
15	Reset switch	Reset to factory defaults	-
16	AI1 - AI16	Alarm inputs for external devices	Sensors
17	AUDIO OUT	Audio output	Amplifier, speakers
18	AUDIO IN 1 - AUDIO IN 4	Max. 4 Audio inputs	Microphone
19	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	•~	USB ports
2	<b>_</b>	Open built-in DVD-RW writer
3	1 to 16	<ul><li>Select cameras</li><li>Enter passwords</li></ul>
4	Menu navigation	Navigation and selection within the menu
5	PANIC	Start/end panic recording
6	Shuttle ring	Infinitely adjust playback speed
7	Jog dial	<ul> <li>Change size of frame in picture-in-picture mode</li> <li>Change numerical values in Setup menu</li> <li>Frame-by-frame playback in Play mode</li> </ul>
8	Q >/II <> > <    >	Playback functions (primary assignment)
0	<b>♣ ጵ ⊳ ⊑</b> ඌ 🍲	PTZ camera functions (secondary assignment)
9	POWER	Power-on indicator when DVR is in operation
10	NETWORK	Indicates Ethernet connection
11	HDD	Indicates hard disk operation
12	DISPLAY, SEQUENCE, FREEZE, SPOT, ZOOM, PTZ	Function buttons
13	ALARM	<ul><li>Reset alarm</li><li>View event list</li></ul>
14	MENU	Open/quit menu structure

# **Key to controls**

### **Function buttons**

Element	Function
$\blacksquare$	Change display mode
ð	Sequence On/Off
*	<ul><li>Freeze On/Off</li><li>Copying recordings in Search menu by pressing and holding down button</li></ul>
•	Spot monitor assignments
<b>(</b>	PTZ camera functions On/Off
⊕,	Zoom On/Off

## **PTZ** camera functions

Element	Function
*	Zoom in
<b>*</b>	Zoom out
<b>(&gt;</b>	Close-up
1_	Wide-angle
ί <sub>μ</sub> η	Save preset
₩	Load preset

# Q Playback functions

Element	Function
Q	<ul><li>Select Search/Play function</li><li>Stop playback</li></ul>
<b>▶</b> /II	Start/pause playback
<b>≪</b>	Fast rewind
<b>&gt;&gt;</b>	Fast forward
<b>∢</b> I	Frame-by-frame rewind
<b>I</b> ►	Frame-by-frame forward

# **Remote control functions**

The following diagram and table set out the functions on the remote control:

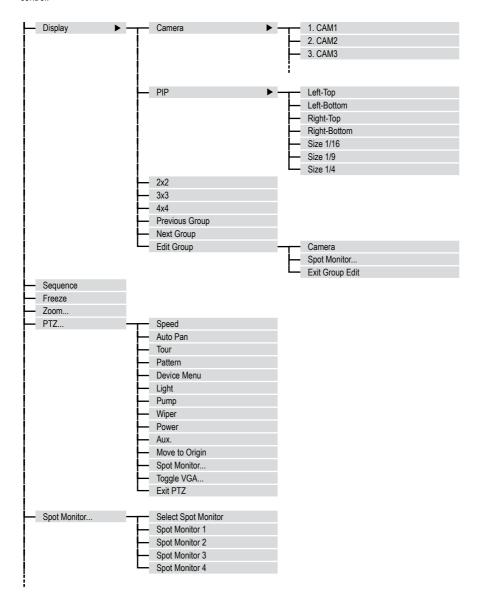
(		ı	No.	Designation	Function
	Select System ID	(1)	1	SPOT 1 - 4	Spot monitor assignments
(12)	1 2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(2)	2	ALARM	<ul><li>Reset alarm</li><li>View event list</li></ul>
	5 6 7 8 9 10 11 12	(3)	3	1 to 16	<ul><li>Select cameras</li><li>Enter passwords</li></ul>
(11)	13 14 15 16	$\odot$	4	◭◮◣▻◜◍◔	PTZ camera functions
	(b) (b) (d)	4 !	5	PTZ	PTZ camera functions On/Off
(10)	IE ON THE SET OF THE S	6	6	ZOOM	Zoom On/Off
	MENU PTZ	5 7	7		Playback functions
9	72000	8	8	PANIC	Start/end panic recording
		6	9	Menu navigation	Navigation and selection within the menu
(8)	DIGITAL VIDEO RECORDER Remote Controller	7	10	MENU	Open/quit menu structure
		•	11	■◇☆□	No function
		•	12	DISPLAY, SEQUENCE, FREEZE	Function buttons

## **Playback functions**

Element	Function
	<ul><li>Select Search/Play function</li><li>Stop playback</li></ul>
	Pause playback
$\triangleright$	Start playback
$\triangleleft$	Fast rewind
	Fast forward
	Frame-by-frame rewind
	Frame-by-frame forward

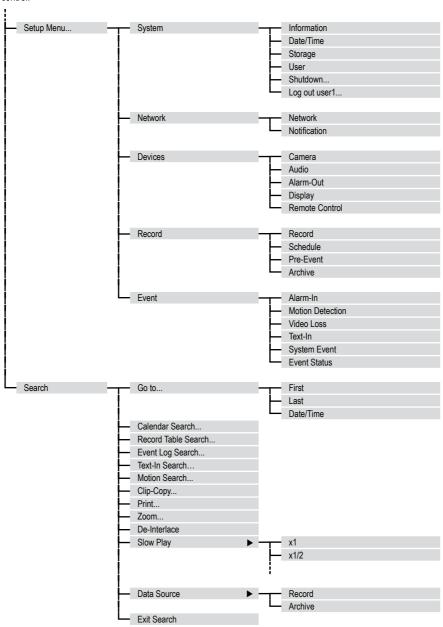
## Menu overview

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



## Menu overview (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		Device	$\blacksquare$
	Open Display menu	Remote Control	$\blacksquare$
		Mouse	Display

### Access to submenu via Device/Remote Control

Submenu	Camera image	Key sequence
Change Display modes (PIP, 2x2, 3x3, 4x4)	Without frame	⊞⊞⊞
Previous/Next Group	Without frame	<b>♦</b> ▶
Edit Group	With frames	<b>←</b> > <b>=</b>
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 sec	quenc	ce/menu path
	Open PTZ menu	Device	<b>(</b>	>	
1	Result: Menu of the configured PTZ	Remote Control PTZ > MENU  Mouse PTZ	MENU		
	camera is shown.				

# 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	Result: Prompt for user name and	Device	
		Remote Control	MENU
		Mouse	Setup Menu
	Log in as user. User name: admin		
2	Password: (blank)		
	<b>Note:</b> 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
	Open Search menu	Device	Q > 📳
1	Result: Search for recorded images is activated.	Remote Control	> MENU
		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 >

### Connecting the remote control and DVR

The remote control and DVR can be assigned an ID, because the ID of each DVR in the network must be unique. The DVR will then only respond to the remote control with the matching ID.

- If the system ID in the DVR is 0, it will respond to the remote control regardless of the remote's ID.
- If the system ID in the DVR is not 0, you must set the ID of the remote control identically.

Step	Action	Menu path
1	Set DVR system ID.	Setup Menu > System > Information
2	Match remote control to system ID by pressing ID button on remote control.	
3	Select relevant number on remote control.	

# **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. <b>Result:</b> 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
- Software versions must be compatible

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
- Software versions must be compatible

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

### **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 reimport them later. (see Saving your system setup and Loading your system setup)

1 Shut down the system.	
i 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.	
Wait for all the LEDs to flash 5 times (about 30 seconds).	
6 Withdraw the paper clip.	

### Mirroring of hard disks

Mirroring of hard disks prevents the loss of records in the event of a hard disk defect.

#### Requirements:

- The Digital Video Recorder has at least 2 or 3 hard disks installed
- The destination hard disk is identical to the source hard disk in type and memory capacity
- The source-hard disk and the destination hard disk are not used for archiving records.

Step	Action	Menu path
1	Formatting the source hard disk for recording.	Setup Menu > System > Storage > Information > Format > Record
2	Select the source hard disk.	Setup Menu > System > Storage > Information > Mirror 1/2 > Source
3	Select the destination hard disk.	Setup Menu > System > Storage > Information > Mirror 1/2 > Dest.
4	Start Mirroring. Results:	Start
	<ul> <li>The source hard disk and destination hard disk are synchronised (approx. 40 minutes for 10 GB).</li> </ul>	
	<b>Note:</b> The (re)synchronization will pause while searching video.	
	All data on the destination hard disk are deleted.	
	All records are written to both hard disks.	
	Interrupting Mirroring. Results:	Stop
	The status of the destination hard is set to:	Don't use
5	<ul> <li>The hard disk can now only be used for searching for records.</li> </ul>	
	If the hard disk is to be used for records or archiving, it must be formatted.	Setup Menu > System > Storage > Information > Format > Format
6	Continuing Mirroring - see Starting Mirroring.	Start

## 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 is calculated by this formula:

Memory requirement = picture size x duration of recording x images per second

#### Calculation example: CIF resolution (PAL):

Picture	Picture size	Duration of recording	Approx. memory space		
quality			5 images/s	10 images/s	25 images/s
Basic	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		Duration of	Aį	Approx. memory space	
quality		recording	5 images/s	10 images/s	25 images/s
Basic	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.



### Copying recordings

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



# 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	$  \Rightarrow  $	Calendar Search

Term	Symbol	Meaning
		<ul><li>Date display</li><li>Grey: No recording available</li><li>White: Recording available</li></ul>
		Hours display  • 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
	Open record table search.	
1	<b>Result:</b> The recording table (standard view) is displayed.	Search > Record Table Search
2	Locate recordings.	D
2	Result: The current seach position is shifted.	

Search		Record Table Search

Symbol	Meaning
×	Quit record table screen
1. CAM1	Camera name
<del>□ • • •</del>	Hours display
I	Display of current search position
<b>\$</b>	Open expanded view
X	Open standard view
Q	Zoom in
Q	Zoom out
	Indicates calender 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.	

Search	Search	Option
Term	Symbol	Meaning
From First	$\bigcirc$	Start date
To Last	$\bigvee$	End date
Check Time Overlap	$\checkmark$	Activates a system prompt if there are multiple recordings for the same time range
Alarm-In		Alarm inputs in response to which a search for events is to start
Motion		Cameras on which to search for motion detection
Video Loss		Cameras on which to search for video loss
Text-In		Text input devices on which to search for events
Record Channels		Cameras on which to search for events
	$\bigcirc$	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 $\Box$	Text-In Search	Option
Term	Symbol	Meaning
From First	✓	Start date
To Last	Ø	End date
Channels		Text input devices on which to search for events
		Type of text input:
		Any Text-In Product
		Generic Text
		Epson
No.	$\checkmark$	Numbers of text elements to search for
		Linking operator for different query conditions:
		(blank)
-		AND
		OR
Name		Text field by which the search should be made
Comp.	•	Comparison conditions
Value		Numerical value against which the comparison is to be made
Column		Column number
Line		Line number
Χ		Delete search parameter
+	•	Add new set of search parameter
Case Sensitive	$\checkmark$	Makes search case-sensitive
Load		Load saved search option settings
Save		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. <b>Result:</b> List of search results is generated.	Search
5	Select desired entry from list.	

Search $\square$	Motion Search	. $\square$ Option				
Term	Symbol	Meaning				
From First	<u> </u>	Start date				
To Last	<u></u>	End date				
		Type of search:				
Туре	•	Motion Search	Search for movement in a defined zone			
		Museum Search	Search for movement of a defined object.			
Zone		Definition of motion-sensitive zones for motion search or museum search: See "Zone" on page 46.				
		Sensitivity of motion detection of:				
		1 (Dull)				
Sensitivity		2				
Sensitivity		3				
		4				
		5 (Sensitive)				
Min. Blocks		Motion search only (not Specify in how many mans a minimum to trigger	otion-sensitive blocks motion must be detected			

# **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 $\Box$	Clip-Copy	
Term	Symbol	Meaning
Data Source		Record
From First	<u> </u>	Start date
To Last	<u> </u>	End date
Channels		Assignment of cameras from which recordings are to be copied
Password		Use password, if desired
		Destination medium:
		Internal DVD-RW
Dest.		USB-CD-RW
Dest.		1. USB Storage
		2. USB Storage
		3. USB Storage
File name		Name of file on destination medium
Include Text-In Data	$\checkmark$	Activates use of Text-In data
Verify After Burning	$\checkmark$	Activates verification after burning
Progress		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
- Schedule and method of archiving

#### 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

Setup Menu...

Clear All Data...

· basic information is entered and displayed

□ System □ Information

- · software updates are installed
- · recorded data are deleted as required

Term	Symbol	Meaning
Site		Location of DVR
System ID		Identifier for remote control     The remote control and DVR must be set to the same ID.     If the system ID in the DVR is 0, it will respond to the remote control regardless of the remote's ID.
Language	•	Menu language
Version		Version of DVR software
Upgrade		Starts installing latest version of software via USB port
Import		Import setup
Export		Export setup
Show System Log		Show log of all actions and events
Recorded Data		
From		Date of oldest recording
То		Date of newest recording

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.

Setup Menu	System $\Box$	Date/Time Date/Time
Term	Symbol	Meaning
Date		Date
Format	<b>▼</b>	Date display format
Time		Time
Format	•	Time display format
Time Zone	<b>▼</b>	Local time zone
Use Daylight Saving Time		Activates use of summertime Daylight Saving Time
Setup Menu	System	Date/Time
Term	Symbol	Meaning
No.		Number of entered public holiday
Date		Date of each desired public holiday
X		Delete holidays
+		Set up holidays
Setup Menu	System 🖒	Date/Time Cync.
Term	Symbol	Meaning
Automatic Sync.	$\checkmark$	Activates synchronisation with time server
Time Server		IP address or domain name of time server
Interval	<b>▼</b>	Synchronisation interval
Last Sync-Time		Time of last synchronisation
Run as Server	$\checkmark$	Activates use of the DVR as the time server

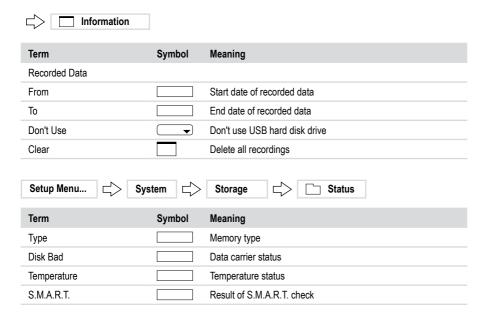
# Setup menu (continued)

## System - Storage

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

Setup Menu		System	$\Rightarrow$	Storage	$  \Rightarrow  $		Information	
Term		Symb	ool	Meaning				
Туре				Type of storage medium				
Capacity				Size of storage	e medium	ı		
Format				Storage mediu	m usage	>>		
Information				Time range of	recorded	data >	<b>&gt;&gt;</b>	
Mirror 1/2								
Source			•	Source hard di	sk			
Dest.			•	Destination ha	rd disk			
Start				Starts the Mirroring				
For	Format							
Term		Symb	ool	Meaning				
				Use of storage	medium	:		
Use as				Record				
036 03				Archive				
				Not using				
				Activating permits:				
Partition		$\bigcirc$		DVD burn		parti DVD	erves a data buffer tion. This is essent s, and must be act age medium with "F	ial for burning ivated for a
Format				Formatting del	etes the	record	ings from the hard	disk

# Setup menu (continued)



#### System - User

Clip-Copy

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

Setup Menu	stem 🖒	User		
Term	Symbol	Meaning		
Group & User Group field		Assignment of group access privileges Table of possible group access privileges >>		
Group & User User field		Set password		
+ Group		Add a new group		
+ User		Add a new user Set password		
Auto Login	•	User to be logged in automatically		
Auto Logout	•	Time after which logged-in user is automatically logged out		
Table of possible				
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	May delete recording data		
Setup	May make o	changes anywhere on the Setup menu		
Colour Control	May change	May change the picture settings		
PTZ Control	May control	PTZ cameras		
Alarm-Out Control	May reset a	May reset alarms		
Covert Camera View	May view vi	May view video images from covert cameras		
System Check	May interrog	May interrogate system status		
Record Setup	May make o	May make changes to the Record menu		
Search	May use Search mode			

DTR-61XX 37

May copy video images

#### System - Shutdown

Setup Menu	$\Rightarrow$	System	$  \Rightarrow  $	Shutdown
------------	---------------	--------	-------------------	----------

#### System - Log out user1...

Setup Menu	$  \Rightarrow  $	System	Log out user1

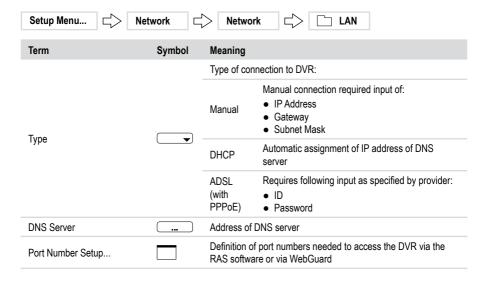
Setup Menu... Network Network

#### Network - Network

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

Term	Symbol	Meaning	
			n bandwidth:
Transfer Speed		(bps)	bits per second
		(ips)	images per second
		Quality of picture transmission via network (PAL):	
		Very High	14,4 kB/picture
Quality	•	High	9,6 kB/picture
		Standard	4,8 kB/picture
		Basic	2,4 kB/picture
		Selecting Au	dio Channel
Remote Audio Channel	•	Select From	RAS

1 - 4



Setup Menu	ork 🖒	Network DVRNS
Term	Symbol	Meaning
Use DVR Name Service	$\checkmark$	Enables the DVR name service
DVRNS Server		IP address or domain name of DVRNS server DVRNS = Digital Video Recorder Name Service
Port		Port for DVRNS
Use NAT	$\checkmark$	Enables NAT (Network Address Translation) use
DVR Name		Name by which the DVR is to be registered with the DVRNS server
Check		Check DVR name for usability after entering
Help Desk		Information from help desk if DVRNS setting correct
Setup Menu	ork 🖒	Network
Term	Symbol	Meaning
Use WebGuard Service	$\checkmark$	WebGuard Service activated
Port		Port for the WebGuard Service

#### **Network - Notification**

On the "Notification" menu the method of notification is defined.

Setup Menu	Network	Notification			
Term	Symbol	Meaning			
Enable	$\checkmark$	Enables notification by e-mail			
SMTP Server		IP address or domain name of SMTP server			
Port		Port for SMTP server Default is port 25.			
Use SSL/TLS	$\checkmark$	Activates the Encryption			
Authentication		Login to SMTP server			
Sender		E-mail address of sender			
Recipient		E-mail address of recipient			
Setup Menu	Network	Notification			
Term	Symbol	Meaning			
LAN	$\checkmark$	Enables notification of an RAS via LAN			
No.		Number of IP address			
IP Address		IP addresses of RAS PCs			
Retry	•	Number of notification attempts by the DVR in the event of an error			

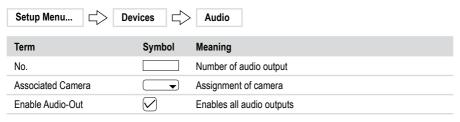
#### **Devices - Camera**

On the "Camera" menu the cameras are configured.

Setup Menu	Devices	S Camera Settings		
Term	Symbol	Meaning		
No.	$\checkmark$	Activates the cameras		
Title		Name of camera		
		Visibility of recordings and camera data depending on user access privileges:		
		Normal All users see all camera data and all recordings		
Use	▼	Covert 1 Users without relevant access see camera title, status symbol, but no recordings		
		Covert 2 Users without relevant access see only camera title, but no recordings		
		Quality of recorded images		
Resolution	Decelution -	Standard CIF		
Resolution		High 2CIF		
		Very High D1		
Setup Menu	Devices	S Camera C PTZ		
Term	Symbol	Meaning		
No.		Number of camera		
Product	•	PTZ camera type as per specified list		
ID		Unique ID of PTZ camera		
Port	•	Interface type of PTZ cameras		
		Settings as specified by PTZ camera manufacturer:		
		Baud Rate		
Setup		Data Bit		
		Stop Bit		
		Parity		

#### Devices - Audio

On the "Audio" menu the audio outputs are assigned to the cameras.



#### 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.

Setup Menu	Devices	S Alarm-Out Settings
Term	Symbol	Meaning
No.		Number of alarm output
Title		Name of alarm output
		Contact method of alarm output:
Туре		NO Normally Open
		NC Normally Closed
Dwell Time		Duration of alarm signal
Setup Menu	Devices	s
Term	Symbol	Meaning
No.		Number of schedule entry
		,
Day	•	Day of the week
Day Range		Day of the week  Time range at 15-minute intervals
,		•
Range		Time range at 15-minute intervals
,		Time range at 15-minute intervals Response in defined period:
Range		Time range at 15-minute intervals  Response in defined period:  Event Alarm in response to event
Range		Time range at 15-minute intervals  Response in defined period:  Event Alarm in response to event  On Continuous alarm
Range Mode	· · · · · · · · · · · · · · · · · · ·	Time range at 15-minute intervals  Response in defined period:  Event Alarm in response to event  On Continuous alarm  Off No alarm  Enable  • Alarm outputs

#### **Devices - Display**

Setup Menu...

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

**Devices** 

- "OSD" tab: Specify what additional information is displayed on-screen.
- "Main Monitor" tab: Specify how the camera images are displayed on the main monitor.

Display

OSD

• "Spot Monitor" tab: Specify which cameras are displayed on the spot monitors.

Term	Symbol	Displayed symbol	Meaning
Status	•	. , ,	Activates display of:
Remote Control	$\overline{\langle}$	<b>₽</b>	Remote Control
Zoom	$\overline{\vee}$	Θ	Visible when Zoom mode enabled
Network	$\overline{\vee}$	品	Visible when DVR operating in a network
Freeze & Sequence	$\checkmark$	\$ 春	Freeze     Visible when Sequence mode enabled
Screen Group	$\checkmark$	1/4	Displays number of groups, and their ID numbers
Free Space	$\bigcirc$	è	Visible when Recycle mode enabled     Remaining hard disk capacity, if Recycle mode not selected
Archive	$\checkmark$	<b>2</b> -	Visible when archiving in progress
Mirror	$\checkmark$	<del>o</del>	Mirroring
Date	$\checkmark$	-	Date
Time	$\checkmark$	-	Time
User Name	$\checkmark$	-	Display of user name
Camera			Activates display of:
No.	$\checkmark$	-	Display of camera number
Title	$\checkmark$	-	Display of camera title
Record	$\checkmark$	# □ ⊙	Display of Record symbols
Audio	$\checkmark$	<)))	Audio
PTZ	$\checkmark$	PIZ	Visible when PTZ camera is displayed
Text-In	$\checkmark$	-	Display of character string
Display Dwell	<b>—</b>	-	Text In Dwell Time

Term	Symbol	Displa	yed symbol	Meaning
_				
Transparency		-		Transparency of menu screens
OSD Margin		-		Distance of displayed symbols from screen margin
Setup Menu	Devices	$\Rightarrow$	Display	□ Main Monitor
Term	Sym	bol	Meaning	
			Modes of seq	uences in multiple playback:
Mode		<b>→</b>	Full Sequence	All cameras are switched through sequentially.
			Cameo Sequence	Only the image at the bottom right is switched through; cameras in "Covert" mode are not displayed to users without "Covert" access.
Interval		•	Time interval	between picture refresh
Event Monitoring On	$\checkmark$		Displays imag event occurs	e of relevant camera in full-screen mode when an
Setup Menu	Devices	$  \Rightarrow$	Display	Spot Monitor
Term	Sym	bol	Meaning	
No.			Number of sp	ot monitor output
Channels		10 -	Camera	Selecting a camera
Onamicis		) <b>v</b>	Dwell	Duration of display of the camera image

#### **Devices - Remote Control**

On the "Remote Control" menu the remote control function is configured.

Setup Menu	Devices	Remote Control			
Term	Symbol	Meaning			
Port	•	Interface type of remote control			
Setup		Setup as specified by manufacturer:			
		Baud Rate			
		Data Bit			
		Stop Bit			
		Parity			
Remote Control Product	•	Remote control type as per specified list			

#### Record - Record

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

Setup Menu	cord	Record	
Term	Symbol	Meaning	
Recycle	$\checkmark$	Enables automathard disk is full	tic overwriting of the oldest recordings when the
		Note: If not enab	oled, recording ends when the hard disk is full.
Event Record Dwell	•	Duration of recor	rding when an event occurs
Auto Deletion		Specify time afte	er which automatically deleted
Limit Time-Lapse Recording		Definition of the	storage time interval
Use Panic Recording	$\checkmark$	Enables the pani	ic recording function
		Duration of panio	crecording
Panic Recording Duration	•	No Limit	End panic recording by pressing PANIC button
		xx min.	Panic recording ends after preset time or by pressing PANIC button
ips	•	Number of record	ded images per second in panic recording
Quality	•	Picture quality of the recorded images in panic recording	

#### Record - Schedule

On the "Schedule" menu the schedule for recording is defined.



Term	Symbol	Meaning				
		Enables sche	edule entries			
Schedule On	$\checkmark$	<b>Note:</b> A recording is made only if schedule entries are enabled. Otherwise only panic recording is possible.				
		Time schedul	e mode for events:			
		Simple Mode				
	•	Advanced Mo	ode			
		Note: All eve ged.	nt and action states are reset when the mode is chan-			
No.		Number of so	hedule entry			
Day	•	Day of the we	Day of the week			
Range		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		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		Assignment of cameras to schedule				
		Picture data	settings:			
Settings		ips	Number of recorded images per second			
		Quality	Picture quality of recorded images			

Term	Symbol	Meaning		
X		Delete schedule entry		
+		Set up schedule entry		
		Picture da	ata defaults in Time and Event modes:	
Default		ips	Number of recorded images per second	
		Quality	Picture quality of recorded images	

#### Record - Pre-Event

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

Setup Menu	Record	Pre-Event
Term	Symbol	Meaning
No.	$\checkmark$	Activates the cameras
ips	<b>▼</b>	Number of recorded images per second prior to the event
Quality	<b>_</b>	Picture quality of the recorded images prior to the event
Dwell		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 interdependent.

#### Record - Archive

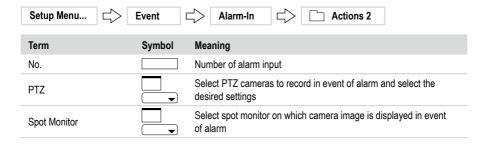
On the "Archive" menu the schedules and settings for archiving are entered.

Setup Menu	Record	Archive		
Term	Symbol	Meaning		
Archive On	$\checkmark$	Enables the archivir	ng settings	
Schedule				
Day	$\checkmark$	Day of week from w	hich to archive recordings	
Range		Time range		
Archive Data Range				
		Start of archiving, from:		
From		Last Archived	Time of last archiving	
		xx/yy/200x	Defined date and time	
		End of archiving, up	to:	
То	✓	Continue	No end	
		xx/yy/200x	Defined date and time	
Popula		Enables automatic of the archive medium	overwriting of the oldest recordings when is full.	
Recycle		<b>Note:</b> If not enabled, archiving ends when the archive medium is full.		

#### Event - Alarm-In

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

Setup Menu	Event	Alarm-In Settings
Term	Symbol	Meaning
No.	$\checkmark$	Enables the alarm inputs
Title		Name of alarm input
		Contact method of alarm input:
Туре	•	NO Normally Open
		NC Normally Closed
Panic Record	•	Panic recording of alarm input
Setup Menu	Event	Alarm-In Actions 1
Term	Symbol	Meaning
No.		Number of alarm input
Record		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		Assign and enable  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
		Assign and enable notifications:
		Mail
Notify		LAN 1 to LAN 5
,		Alert Window
		The selected function must be enabled: Setup Menu > Network > Notification



#### **Event – Motion Detection**

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

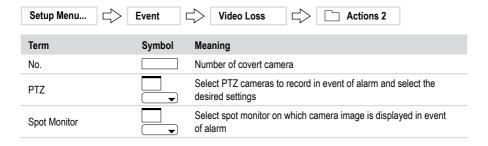
Setup Menu	□ Event		Motion Detection	Settings
Term	Symbol	Meaning		
No.	$\checkmark$	Enables mot	ion detection for the	camera
		Sensitivity of	motion detection:	
Sensitivity		Daytime		
		Nighttime		
		Select the motion-sensitive blocks within the time slot Left mouse button functions:  Click to select/deselect Click - hold down - drag to define a zone for selection/deletion/back		
		Right mouse	button functions or r	menu in time slot to select blocks:
Zone		Select	Select comple	ete row of blocks
20110		Clear	Clear selectio	n of a row
		Reverse	Reverse selec	ction of a row
		Select All	Select all bloc	cks
		Clear All	Clear selectio	on of all blocks
		Reverse All	Reverse selec	ction of all blocks
5			ow many motion-sens o trigger an alarm:	sitive blocks motion must be detected as
Min. Blocks		Daytime		
		Nighttime		
Zone View	$\checkmark$	Mark the mo	tion-sensitive zones	(red in event of motion)
Motion Ignoring		Time interva	l between 2 events lo	ogged as separate events:
Interval		Never	Each motion detecti	ion is logged as a separate event.
Daytime Setup		Definition of "Daytime" time range		

Setup Menu	Event	Motion Detection
Term	Symbol	Meaning
No.		Number of alarm input
Record		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		Assign and enable  • 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
		Assign and enable notifications:
		Mail
Notify		LAN 1 to LAN 5
Houry		Alert Window
		The selected function must be enabled: Setup Menu > Network > Notification
Setup Menu	Event	Motion Detection
Term	Symbol	Meaning
No.		Number of alarm input
PTZ		Select PTZ cameras to record in event of alarm and select the desired settings
Spot Monitor		Select spot monitor on which camera image is displayed in event

#### **Event - Video Loss**

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

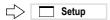
Setup Menu	Event	Video Loss Settings
Term	Symbol	Meaning
		Sensitivity of check as to whether camera is covert:
Check Obscuration		Never not checked
		126 very sensitive
Setup Menu	Event	Video Loss  ☐ Actions 1
Term	Symbol	Meaning
No.		Number of covert camera
Record		Assignment of cameras to record in event of alarm These cameras must be in "Event" or "Time and Event" mode within the time slot: Setup Menu > Record > Schedule
Alarm-Out		Assign and enable  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
		Assign and enable notifications:
		Mail
Notify		LAN 1 to LAN 5
,		Alert Window
		The selected function must be enabled: Setup Menu > Network > Notification



#### Event - Text-In

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

Setup Menu	Event	Text-In Settings
Term	Symbol	Meaning
No.		Number of text input device
Setup		Configuration of text input >>
Title		Name of text input



Term	Symbol	Meaning
Port	•	Interface
		Setting as specified by manufacturer of text input device (ATM, cash-till etc.):
0.4		Baud Rate
Setup		Data Bit
		Stop Bit
		Parity
		Type of text input:
Text-In Product	lacksquare	Generic Text
		Epson
Transaction Start		Character string with which text input must start for the DVR to respond
Any Character	$\checkmark$	DVR responds to any character
Transaction End		Character string with which text input must end for the DVR to respond
0 more line(s)	•	Enables recording of n more lines
Line Delimiter		Line delimiter as specified by the text input device manufacturer: ^J for LF or ^M for CR
Ignore String		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	$\checkmark$	Case sensitivity according to text input device manufacturer's specification
Time Out	•	Waiting time after the last string

Setup Menu	Event	Text-In  Actions 1
Term	Symbol	Meaning
No.		Number of alarm input
Record		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		Assign and enable  • 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
		Assign and enable notifications:
		Mail
Notify		LAN 1 to LAN 5
Noury		Alert Window
		The selected function must be enabled: Setup Menu > Network > Notification
Setup Menu	Event	Text-In
Term	Symbol	Meaning
No.		Number of alarm input
PTZ		Select PTZ cameras to record in event of alarm and select the desired settings
Spot Monitor		Select spot monitor on which camera image is displayed in event

#### **Event - System Event**

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

Setup Menu	Event 🖒	> System Event	$\Rightarrow$ $\Box$ H	lealth Check
Term	Symbol M	leaning		
System	<b>▼</b> S	ystem self-diagnostics ir	terval	
Check Recording	S	etup Configuration of	schedule >>	
Check Alarm-In	□ Ir	terval for checking Alarn	n Inputs	
Setup				
Term	Symbol M	leaning		
Schedule On	✓	nables schedule entries		
No.	N	umber of schedule entry		
Day	<b>▼</b> D	ay of the week		
Range	T	ime range at 15-minute i	ntervals	
Interval	<b>▼</b> C	hecking interval		
X	D	elete schedule entry		
+	S	et up schedule entry		
Setup Menu	Event	> System Event		torage
Term	Symbol	Meaning		
Disk Bad Notify	•	Percentage of bad see is triggered	ctors on hard disl	as from which an alarm
Disk Almost Full Notify	•	Percentage hard disk Almost Full" alarm is t		as from which "Disk
Disk S.M.A.R.T.	•	Input of the temperatu Fahrenheit) for the da If the temperature limi For details of your har manufacturer's manua	ta carrier S.M.A.I t is exceeded an d disk's tempera	R.T. test. alarm is triggered.

Setup Menu	C   Event	□ □ System Eve	ent 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		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		Assign and enable     alarm outputs     internal beep by DVR  Note: Not possible for system event and panic recording	
		Assign and enable notifi	cations:
		Mail	
Notify		LAN 1 to LAN 5	(not in case of system event)
		Alert Window (	(not in case of system event)
		The selected function m Setup Menu > Networ	

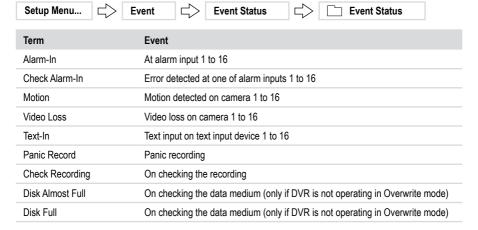
#### **Event - Event Status**

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

- · Grey text: Event detection not enabled
- · White text: Event detection enabled

Setup Menu Fvent

- Flashing border: Message acute event for 5 sec
- · Yellow field: Pending event



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

Fvent Status Storage

#### WebGuard - WebWatch controls

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



No.	Designation	Function
1	E	WebGuard Logging out
2	9	Open Search (WebSearch)
3	DVR	Date/Time, IP Address, User Name
4		Image display modes
5	Camera image	Camera name, Enable Audio, Image Aspect Ratio, Anti-Aliasing
6	10 to 16	Select cameras
	23	Image optimisation
7	<b>③</b>	PTZ camera functions
	<u></u>	Activate Alarm Outputs
8	Ca	Save current image as BMP or JPEG file
9	88	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	e e	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
	•	Search for date/time
9	<b>©</b>	Calendar search
	<b>夫</b>	Event Search
10	2	Reload recording data
11	88	Set up image drawing mode
		Save any video clip as an EXE file
12		Save current image as BMP or JPEG file
	<i>\(\Beta\)</i>	Print image

#### **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:
- http://IP address:Port number (default port address 12088)	
J	- 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.
5	Result: WebGuard window is opened.

## **Specifications DTR-6108**

Model	DTR-6108/250D (Additional models upon request)
EDP No.	72684
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, remote SW (RAS)
Alarm activation	Automatic multi-screen display of alarm images programmable
Remote Control	Wireless IR remote control (included)
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~4x
Playback	Frame image, 4-/8-channel split
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 16 (256) grid, 5 sensitivity settings
Simplex/Duplex/Triplex/Pentaplex mode	Triplex
Video inputs	8x 1 Vp-p, (F)BAS, 75 Ohm, BNC, loop-through
Monitor outputs	4x Spot-Outputs 1Vss, (F)BAS, 75 Ohm, BNC, 1x VGA
Video output	$1x\ 1\ Vp-p,\ (F)BAS,\ 75\ Ohm,\ BNC;\ 1x\ S-VHS,\ S=1\ Vp-p,\ C=0.3\ Vp-p,\ 75\ Ohm$
Audio input	4x amplifier input, cinch
Audio output	1x amplifier output, cinch
Resolution	720 x 576 pixels (display)
Compression method	MPEG-4, higher compression rates with same picture quality enable maximum recording times
Recording speed	200 field image per sec at CIF resolution (336 x 272 pixels/PAL), 100 field image per sec at 2CIF resolution (672 x 272 pixels/PAL), 50 field image per sec at D1 resolution (720 x 576 pixels/PAL)

## **Specifications DTR-6108 (continued)**

Model	DTR-6108/250D (Additional models upon request)
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
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	200 field image per sec at CIF resolution (336 x 272 pixels/PAL) and Duplex
Export of picture data	via USB 2.0, SCSI port, CD writer. Network data export: Clip Player, AVI, JPG, BMP
Alarm inputs	8x TTL, programmable as NC/NO (terminal strip)
Alarm outputs	8x TTL, open collector (terminal strip)
Alarm reset	2~4 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	With SATA, SCSI and USB hard disks. Real-time mirroring
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	3x USB, 1x RS-485, 1x RS-232 (remote control/configuration), 1x SCSI for memory expansion
Power Supply	100 VAC~230VAC, 50/60Hz
Power consumption	approx. 85 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 405 mm
Weight	approx. 8.3 kg

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

## **Specifications DTR-6116**

Model	DTR-6116/250D (Additional models upon request)
EDP No.	72685
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, remote SW (RAS)
Alarm activation	Automatic multi-screen display of alarm images programmable
Remote Control	Wireless IR remote control (included)
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~4x
Playback	Frame image, 4-/9-/16-channel split
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 16 (256) grid, 5 sensitivity settings
Simplex/Duplex/Triplex/Pentaplex mode	Triplex
Video inputs	16x 1 Vp-p, (F)BAS, 75 Ohm, BNC, loop-through
Monitor outputs	4x Spot-Outputs 1Vss, (F)BAS, 75 Ohm, BNC, 1x VGA
Video output	$1x\ 1\ Vp-p,\ (F)BAS,\ 75\ Ohm,\ BNC;\ 1x\ S-VHS,\ S=1\ Vp-p,\ C=0.3\ Vp-p,\ 75\ Ohm$
Audio input	4x amplifier input, cinch
Audio output	1x amplifier output, cinch
Resolution	720 x 576 pixels (display)
Compression method	MPEG-4, higher compression rates with same picture quality enable maximum recording times
Recording speed	400 field image per sec at CIF resolution (336 x 272 pixels/PAL), 200 field image per sec at 2CIF resolution (672 x 272 pixels/PAL) 100 field image per sec at D1 resolution (720 x 576 pixels/PAL)

## **Specifications DTR-6116, continued**

Model	DTR-6116/250D (Additional models upon request)
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
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	400 field image per sec at CIF resolution (336 x 272 pixels/PAL) and Duplex
Export of picture data	via USB 2.0, SCSI port, CD writer. Network data export: Clip Player, AVI, JPG, BMP
Alarm inputs	16x TTL, programmable as NC/NO (terminal strip)
Alarm outputs	16x TTL, open collector (terminal strip)
Alarm reset	2~4 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	With SATA, SCSI and USB hard disks. Real-time mirroring
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	3x USB, 1x RS-485, 1x RS-232 (remote control/configuration), 1x SCSI for memory expansion
Power Supply	100 VAC~230VAC, 50/60Hz
Power consumption	approx. 85 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 405 mm
Weight	approx. 8.3 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**

	<b>5</b>
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

#### Index

A	Controls Front panel 9		
Accessories 71	Remote Control 11		
Alarm	WebSearch 65		
Configuring inputs 52	WebWatch 64		
Configuring outputs 44	Copying recordings 31		
Connecting inputs 8	Covert mode 19, 42		
Connecting inputs 8	00VCIT 1110dC 13, 42		
Motion Detection 55	D		
Resetting 9	_		
	Date setting 34		
Setting schedule for outputs 44	Defining group access rights 37		
Setting signal duration 44 Ambient conditions 3, 68	Defining motion-sensitive zones 54		
•	Display		
Archiving	Configuring 45		
Configuring 51	Hiding 19, 42		
Memory requirement 22, 51	Displaying event status 63		
Setting schedule 51	Display menu		
Assigning cameras	Access 14		
Alarm-In 52	Disposal 76		
Motion Detection 54, 55	DVRNS		
Text-In 60	Network configuration 40		
Video Loss 56	Dwell 44		
Assigning PTZ cameras			
Alarm-In 53	E		
Motion Detection 54, 55	E 251 00 0 44		
Text-In 60	E-mail Notification 41		
Video Loss 57	EMC class 3		
D	Enabling notification		
В	Alarm-In 52		
Basic functions 7	Motion Detection 55		
24010 14110410110 1	System Event 62		
C	Text-In 60		
	Video Loss 56		
Calendar search 25	Event		
Cameo 46	Configuring a pre-event 50		
Cleaning 3	Configuring responses 52		
Clip-Copy 31	Defining motion-sensitive zones 54		
Configuring a pre-event 50	Displaying status 63		
Configuring audio outputs 43	Setting recording time 48		
Configuring event responses 52	System events 61		
Configuring Motion Detection 54	Text input 58		
Configuring panic recording 48	Video Loss 56		
Configuring PTZ cameras 42	Event log 27		
Configuring remote control 47	-		
Configuring text input as event 58	F		
Configuring the cameras 42	Front panel 9		
Configuring video loss as event 56	Controls 9, 10		
Connecting cameras 8	Controls 3, 10		
Connections 8			
Control options 7			
Control protocols 72			

## Index (continued)

G	R
Getting started Video recorder 3, 16  H  Hard disks Mirroring 21, 35  Health Check 61	Recording Copying 31 delete 19 Memory requirement 22 Search 23 Setting schedule 49 Recreate factory settings 20 Recycling the device 76 Remote Control Controls 11
IP Address 39, 40	Setting system ID 16, 33 Reset 8, 20
LAN	S
Network configuration 39  M  Memory requirement     Archiving 22, 51     Recording 22     Memory type 35     Menu descriptions     Search menu 23     Setup menu 32     Menu structure 12     Mirroring of hard disks 21, 35     Monitor     Configuring display 45     Configuring display sequence 46     Connecting 8     Motion Search 30	Safety instructions 3 Schedule Setting for alarm 44 Setting for archiving 51 Setting for recording 49 Search Calendar search 25 Event log 27 Motion Search 30 Record table search 26 Text-In 28 Search-menu Access 15 Setting a password 37 Setting automatic overwrite 48 Setting menu language 33 Setting recording quality 48 Setting system ID for remote control 33
N	Setting the duration of records in an event oc-
Network configuration 38 Network settings DVRNS 40 LAN 39	currence 48 Setting up a concealed camera 19, 42 Setting up Notification 41 Setting up user groups 37 Setting up users 37
P Package contents 7 PANIC 9, 48 PTZ-menu Access 14 PTZ cameras Connecting 8 Supported cameras 72	Setup menu Access 15 Menu descriptions 32 Shutdown 17 Software updates 19 Software version 33 Specifications 67 Specifying public holidays 34

#### Index (continued)

```
Spot Monitor
  Assigning a camera 46
  Connecting 8
Storage media
  Displaying status 35
  Displaying usage 35
  Setting automatic overwrite 48
Switching off 17
Switching on 17
System
  Export setup 33
  Import setup 33
  Logging out as USER 38
  Shutdown 38
System events
  Configuring 61
  Health Check 61
Т
Text-in search 28
Time
  Setting 34
  Synchronising 34
W
```

WebGuard Controls 64, 65 Use 66 WebSearch Controls 65 Use 66 WebWatch Controls 64 Use 66

#### 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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