## **Operating Instructions**

**Digital Video Recorder** 

Models: DLR3-08N/160CDV, DLR3-16N/160CDV,

DLR3-08N/410CDV, DLR3-16N/410CDV, DLR3-08N/660CDV DLR3-16N/660CDV





## 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 Technical 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
- Even-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 160 GB / 410 GB / 660 GB
- Maximum video resolution 720 x 576 pixels
- · Archiving/image transfer via USB and CD-RW
- Live picture & Playback Zoom (2x)
- · Integral Motion Detector
- Telemetry control functions via RS-485 port
- Network connection (Ethernet)

#### Requirements for operation

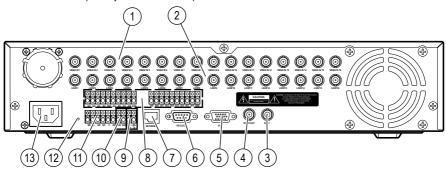
- · Digital video recorder DLR3 connected
- · At least 1 camera connected
- At least 1 monitor connected
- . Mouse connected, if DVR is to be controlled by mouse

#### **Control options**

- · Front panel
- Mouse
- RAS program

## **Connections on the rear**

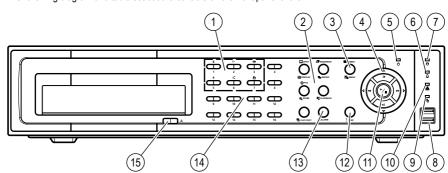
Note: Connections optionally for NTSC or PAL operation.



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	Modem
7	NETWORK	Network	Network cable
8	Al1 - Al16	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	◭◮◗▻▯◍◔	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	Menu navigation	Navigate and select within the menu structure (secondary assignment)
5	Ф	Power-on indicator when DVR is in operation
6	¢	Display at alarm
7	8	Indicates hard disk operation
8	Connections	USB ports
9	<u> </u>	Indicates recordings being copied
10	盎	Indicates Ethernet or modem connection
11	<b>▶</b> / <b>II ↔ ▶ ∢    ▶</b>	Playback functions (primary assignment)
12	PANIC	Start/end panic recording
13	ALARM	<ul><li>Reset alarm</li><li>View event list</li></ul>
14	1 to 16	<ul><li>Select cameras</li><li>Enter passwords</li></ul>
15	<b>_</b>	Open built-in CD-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)
ð	Sequence On/Off (secondary assignment)
<b>*</b>	Cameo mode On/Off (secondary assignment)
$\blacksquare$	Changing the image display modes (primary usage)
點	Switch displayed group (primary assignment)
<b>(</b>	PTZ camera functions On/Off (secondary assignment)
⊕,	Zoom On/Off (primary assignment)
<b>₽</b>	Start playback
間	Copying recordings

#### **PTZ** camera functions

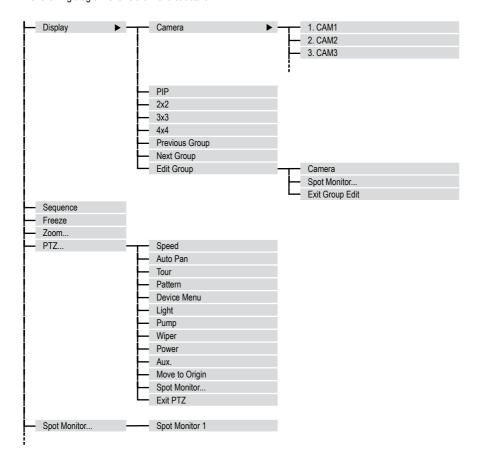
Element	Function
*	Zoom in
<b>☆</b>	Zoom in
<b>(</b> >	Close-up
1_	Wide-angle
( <sub>Ju</sub> )	Save preset
₩	Load preset

### **Playback functions**

Element	Function
<b>∢</b> I	Frame-by-frame rewind
<b>≪</b>	Fast rewind
<b>▶</b> /Ⅱ	Start/pause playback
<b>&gt;&gt;</b>	Fast forward
I►	Frame-by-frame forward

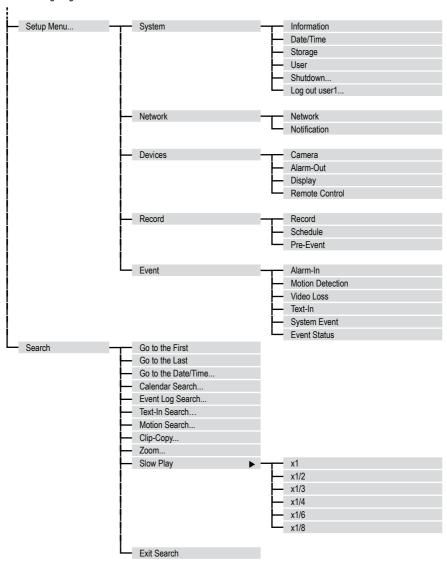
## Menu structure

The following diagram shows the menu structure:



## Menu structure, continued

The following diagram shows the menu structure:



# **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:

• The start-up preparations are complete.

Step	Action
1	Plug in DVR mains plug.
2	Switch on monitor.
	Result: System starts up automatically and is ready to use.

#### Accessing the Setup menu

#### Requirement:

- The DVR is switched on.
- You have set up a custom user name and password or you are using the following default access data (only when first accessing the Setup menu): User name: admin Password: (blank)

Step	Action	Menu path
1	Open Setup Menu <b>Result:</b> Prompt for user name and password.	Setup Menu
2	Log in as user.	

### 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

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	
		Setup Menu > System > Information > Clear All Data	
1	Delete all recordings.	or	
		Setup menu > System > Storage > Information tab > Using > 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 reimport 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:

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

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

Picture	Picture Duration of size recording	Į	Approx. memory space		
quality		recording	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

#### 2Calculation example: 2CIF resolution (PAL):

Picture	Picture Duration of recording	Duration of	Approx. memory space		
quality		recording	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



#### **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.



#### 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. <b>Result:</b> 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> 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 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	<u> </u>	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
		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 $\Rightarrow$	Text-In Search	> Option
Term	Symbol	Meaning
From First	✓	Start date
To Last	✓	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
+	•	Add new set of search parameter
Case Sensitive	$\bigcirc$	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	Motion Search	h   C>   Option	on
Term	Symbol	Meaning	
From First	<u> </u>	Start date	
To Last	<u></u>	End date	
		Type of search:	
Туре	<b>▼</b>	Motion Search	Search for movement in a defined zone
		Museum Search	Search for movement of a defined object.
Zone		Definition of motion-se See "Zone" on page 4	ensitive zones for motion search or museum search: 4.
		Sensitivity of motion d	etection of:
		1 (Dull)	
Sensitivity		2	
Sensitivity		3	
		4	
		5 (Sensitive)	
Min. Blocks		5 (Sensitive)  Motion search only (not museum search):  Specify in how many motion-sensitive blocks motion must be detected 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		Record
From First	✓	Start date
To Last	<u> </u>	End date
Channels	<u> </u>	Assignment of cameras from which recordings are to be copied
Password		Use password, if desired
		Destination medium:
		Internal CD-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

• 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		Location of DVR
System ID		ID for remote keypad  The remote keypad and DVR must be set to the same 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
From		Date of oldest recording
То		Date of newest recording
Clear All Data		Deletes all stored data

#### System - Date/Time

On the "Date/Time" menu

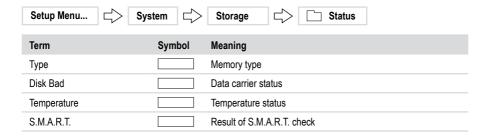
- time and date settings are made
- dates of public holidays are entered
- time synchronisation is configured.

Setup Menu	System 🗅	Date/Time Date/Time
Term	Symbol	Meaning
Date		Date
Format	•	Date display format
Time		Time
Format	•	Time display format
Time Zone	•	Local time zone
Use Daylight Saving Time	$\checkmark$	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
Setup Menu	System	Date/Time Cync Time Sync
Term	Symbol	Meaning
Automatic Sync.	$\checkmark$	Activates synchronisation with time server
Time Server		IP address or domain name of time server
Interval	•	Synchronisation interval
Last Sync-Time		Time of last synchronisation
Run as Server	$\checkmark$	Activates use of the DVR as the time server

### System - Storage

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

Setup Menu Sys	tem 🖒	Storage $\Box$	<b>Information</b>
Term	Symbol	Meaning	
Туре		Type of storage mediun	1
Capacity		Size of storage medium	
Format		Storage medium usage	>>
Information		Time range of recorded	data >>
Format			
Term	Symbol	Meaning	
		Use of storage medium	:
Use as	•	Record	
		Not using	
		Activating permits:	
Partition	$\checkmark$	CD/DVD burn	Reserves a data buffer as a separate partition. This is essential for burning CDs, and must be activated for a storage medium with "Record" usage.
Format		Formatting deletes the	recordings from the hard disk
☐ Information			
Term	Symbol	Meaning	
From		Start date of recorded d	ata
То		End date of recorded da	ata
Clear		Delete all recordings	



#### System - User

Record Setup

Search

Clip-Copy

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

	ystem $ ightharpoonup$	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	lacksquare	Time after which logged-in user is automatically logged out
Table of possib	ole group acce	ss privileges
Shutdown		
SHULUOWH	May shut do	own the DVR
Upgrade	•	own the DVR a new firmware version
	May install a	
Upgrade	May install a	a new firmware version
Upgrade System Time Change	May install a May change May delete	a new firmware version the time setting
Upgrade System Time Change Data Clear	May install a May change May delete May make o	a new firmware version e the time setting recording data
Upgrade System Time Change Data Clear Setup	May install a May change May delete May make o May change	a new firmware version the time setting recording data changes anywhere on the Setup menu
Upgrade System Time Change Data Clear Setup Colour Control	May install a May change May delete May make o May change	a new firmware version e the time setting recording data changes anywhere on the Setup menu e the picture settings PTZ cameras
Upgrade System Time Change Data Clear Setup Colour Control PTZ Control	May install a May change May delete May make o May change May control May reset a	a new firmware version e the time setting recording data changes anywhere on the Setup menu e the picture settings PTZ cameras

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May make changes to the Record menu

May use Search mode

May copy video images

### System - Shutdown



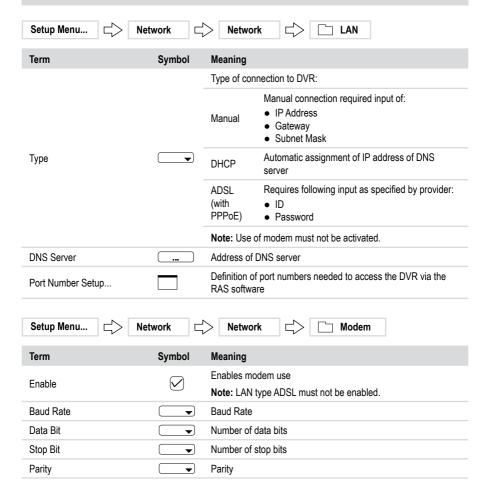
#### System - Log out USER...

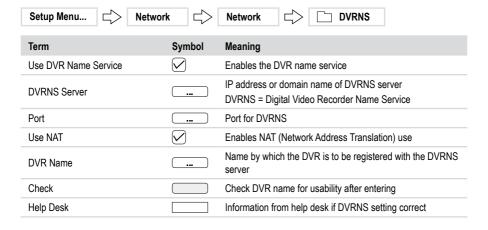


#### Network - Network

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

Setup Menu	Network _	Network	Network
Term	Symbol	Meaning	
		Transmission	n bandwidth:
Transfer Speed		(bps)	bits per second
		(ips)	images per second
		Quality of pic	eture transmission via network (PAL):
		Very High	14,4 kB/picture
Quality	•	High	9,6 kB/picture
		Standard	4,8 kB/picture
		Low	2,4 kB/picture





#### **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.
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	$\swarrow$	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
Modem	$\checkmark$	Enables notification of an RAS via modem
Remote Server Phone Number		Telephone number of the modem on the notified RAS PC
Outside Line Call		Outside line code for external calls, if DVR's modem is connected to a PABX system
Callback Phone Number		Telephone number of DVR's modem The RAS PC contacts the DVR on this number.

#### **Devices - Camera**

On the "Camera" menu the cameras are configured.

Setup Menu	Devices	S Camera C 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	•	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
Setup Menu	Devices	
Setup Menu Term	Devices Symbol	Meaning
•		
Term		Meaning
Term No.	Symbol	Meaning Number of camera
Term No. Product	Symbol	Meaning Number of camera PTZ camera type as per specified list
Term No. Product	Symbol	Meaning Number of camera PTZ camera type as per specified list Unique ID of PTZ camera
Term No. Product	Symbol	Meaning Number of camera PTZ camera type as per specified list Unique ID of PTZ camera Interface type of PTZ cameras
Term No. Product	Symbol	Meaning Number of camera PTZ camera type as per specified list Unique ID of PTZ camera Interface type of PTZ cameras Settings as specified by PTZ camera manufacturer:
Term No. Product ID Port	Symbol	Meaning Number of camera PTZ camera type as per specified list Unique ID of PTZ camera Interface type of PTZ cameras Settings as specified by PTZ camera manufacturer: Baud Rate

#### 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	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	•	Duration of alarm signal
Setup Menu	□ □ Devices	Alarm-Out Schedule
Term	Symbol	Meaning
Term No.	Symbol	Meaning  Number of schedule entry
	Symbol	•
No.		Number of schedule entry
No. Day	•	Number of schedule entry  Day of the week
No. Day Range		Number of schedule entry  Day of the week  Time range at 15-minute intervals
No. Day	•	Number of schedule entry  Day of the week  Time range at 15-minute intervals  Response in defined period:
No. Day Range		Number of schedule entry  Day of the week  Time range at 15-minute intervals  Response in defined period:  On Continuous alarm

### **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
Progress			Activates display of:
Zoom	$\checkmark$	<b>⊙</b>	Visible when Zoom mode enabled
Network	$\checkmark$	嵒	Visible when DVR operating in a network
Freeze & Sequence	$\checkmark$	数号	<ul><li>Freeze</li><li>Visible when Sequence mode enabled</li></ul>
Screen Group	$\checkmark$	1/4	Displays number of groups, and their ID numbers
Free Space	$\checkmark$	è	Visible when Recycle mode enabled     Remaining hard disk capacity, if Recycle mode not selected
Date	$\checkmark$	-	Date
Time	$\checkmark$	-	Time
User Name	$\checkmark$	-	Display of user name
Camera			Activates display of:
No.	$\checkmark$	-	Display of camera number
Title	$\bigcirc$	-	Display of camera title
Record	$\checkmark$	# 🛚 ⊙	Display of Record symbols
PTZ	$\bigcirc$	PIZ	Visible when PTZ camera is displayed
Text-In	$\checkmark$	-	Display of character string
Display Dwell	•	-	Text In Dwell Time
Transparency		-	Transparency of menu screens
OSD Margin		-	Distance of displayed symbols from screen margin

Setup Menu	vices $\Box$	Display
Term	Symbol	Meaning
		Modes of sequences in multiple playback:
Mode	▼	Full Sequence All cameras are switched through sequentially.
		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 image of relevant camera in full-screen mode when an event occurs
Setup Menu	vices 🖒	Display
Term	Symbol	Meaning
No.		Number of spot monitor output
Channels	•	<ul><li>Cameras</li><li>Display time of recordings from cameras on spot monitor</li></ul>

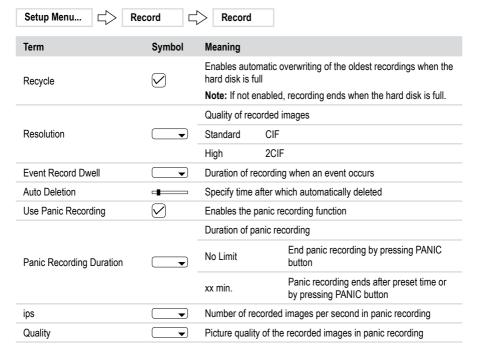
### **Devices - Remote Control**

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

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

#### Record - Record

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



#### Record - Schedule

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



Term	Symbol	Meaning	
		Enables sche	edule entries
Schedule On	$\checkmark$		rding is made only if schedule entries are enabled.  ly panic recording is possible.
No.		Number of so	chedule entry
Day	•	Day of the we	eek
Range	lacksquare	Time range a	t 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 in Time and Event modes:	
Settings		ips N	lumber of recorded images per second
		Quality P	icture quality of recorded images
		Picture data	defaults in Time and Event modes:
Default		ips N	lumber of recorded images per second
		Quality P	icture quality of recorded images

### Record - Pre-Event

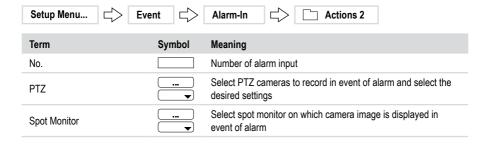
On the "Pre-Event" menu the settings for recording prior to the event are made.

Setup Menu	> Record 🖒	Pre-Event
Term	Symbol	Meaning
No.	$\checkmark$	Activates the cameras
ips	•	Number of recorded images per second prior to the event
Quality	•	Picture quality of the recorded images prior to the event
		Recording time prior to the event
Dwell	•	<b>Note:</b> 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.

#### 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
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
	_	Modem
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.

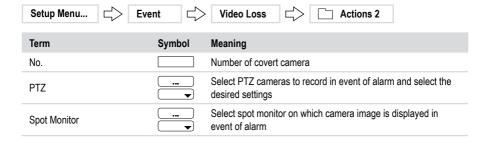
Setup Menu	Event	C	otion Detection
Term	Symbol	Meaning	
No.	$\checkmark$	Enables motion	n detection for the camera
		Sensitivity of m	notion detection:
Sensitivity	•••	Daytime	
		Nighttime	
		<ul><li>Left mouse but</li><li>Click to sele</li><li>Click - hold</li></ul>	ect/deselect down - drag to define a zone for selection/deletion/back
			utton functions or menu in time slot to select blocks:
Zone		Select	Select complete row of blocks
		Clear	Clear selection of a row
		Reverse	Reverse selection of a row
		Select All	Select all blocks
		Clear All	Clear selection of all blocks
		Reverse All	Reverse selection of all blocks
			many motion-sensitive blocks motion must be detected as trigger an alarm:
Min. Blocks		Daytime	
		Nighttime	
Zone View	$\checkmark$	Mark the motion	on-sensitive zones (red in event of motion)
Motion Ignoring		Time interval b	etween 2 events logged as separate events:
Interval		Never E	Each motion detection is logged as a separate event.
Daytime Setup		Definition of "D	Paytime" time range

Setup Menu	Event $\Box$	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	<b>/</b>	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
		Modem
Notify		LAN 1 to LAN 5
		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 - Video Loss**

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

Setup Menu	Event 🖒	> Video Loss
Term	Symbol	Meaning
Check Obscuration	4	Sensitivity of check as to whether camera is covert:  Never not checked  15 very sensitive
Setup Menu	Event 🖒	Video Loss
Term	Symbol	Meaning
No.		Number of covert camera
Record	<u></u>	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	<b>/</b>	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
Notify	\left	Assign and enable notifications  Mail  Modem  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	vent $ abla$	Text-In
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.):
		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	<b>_</b>	Waiting time after the last string

Setup Menu	Event $\Rightarrow$	Text-In
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
		Modem
Notify		LAN 1 to LAN 5
		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 of alarm

### **Event – System Event**

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

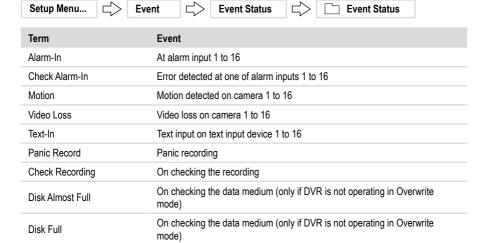
Setup Menu	Event	> System Event
Term	Symbol	Meaning
System	•	System self-diagnostics interval
Check Recording		Setup Configuration of schedule >>
Check Alarm-In	•	Interval and status for checking alarm inputs
□ Setup		
Term	Symbol	Meaning
Schedule On	$\checkmark$	Enables schedule entries
No.		Number of schedule entry
Day	•	Day of the week
Range		Time range at 15-minute intervals
Interval		Checking interval
Setup Menu	Event	> System Event
Term	Symbol	Meaning
Disk Bad Notify	•	Percentage of bad sectors on hard disk as from which an alarm is triggered
Disk Almost Full Notify	•	Percentage hard disk space available as from which "Disk Almost Full" alarm is triggered
Setup		Configuration of data media S.M.A.R.T. check Opens a window in which the frequency rate and time and a temperature limit (in Celsius or Fahrenheit) for the S.M.A.R.T. check can be specified.  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	□ Event	□ System Event	Actions
Term	Symbol	Meaning	
		Events (based on checks	s):
		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 <ul><li>alarm outputs</li><li>internal beep by DVR</li></ul> Note: Not possible for system	stem event and panic recording
		Assign and enable notifications:	
		Mail	
		Modem (r	not in case of system event)
Notify	LAN 1 to LAN 5 (r	not in case of system event)	
		Alert Window (r	not in case of system event)
		The selected function mu Setup Menu > Network	

#### **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



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

# Specifications DLR3-08N/XX

Model	DLR3-08N/160CDV	DLR3-08N/410CDV	DLR3-08N/660CDV
EDP No.	71983	71982	71981
Video standard	PAL/NTSC (auto detection	)	
Remark	-		
Event logs	Unlimited number of entrie	s for alarm/event/text messa	ages, loss of signal
Security against unauthorised use	Key locking, 64 user group	s with programmable acces	s (up to 256 users)
Transmission rate	100 images per sec (PAL)		
Alarm triggering	E-mail, pager, remote SW	(RAS)	
Alarm activation	Automatic multi-screen dis	play of alarm images progra	ımmable
Remote Control	-		
Text display interface	ATM/POS, 10 channels ma	ax.	
Monitor display	Real-time playback: 25 fiel (NTSC) per camera	d images per sec (PAL), 30	field images per sec
Covert camera mode	Programmable		
Time synchronisation	Network time log, network	time server	
System change log	Up to 5000 entries for logir change of signal connection	n/logout, configuration chanç n, disk read/write errors	ges, remote access,
Zoom function	2x		
Playback	Frame image, 4-/8-channe	l split, PIP	
Post-alarm recording	Up to 15 minutes		
VGA	-		
Control interface	RS-485 port for PTZ control keyboard connection for re	ol (verified logs: eneo-Fastra mote control	ax, Pelco P/D) or
Activity detection	Programmable 16 x 12 (19	2) grid, 5 sensitivity settings	}
Simplex/Duplex/Triplex/Pentaplex mode	Duplex		
Video inputs	8x 1 Vp-p, (F)BAS, 75 Ohr	n, BNC, loop-through	
Monitor outputs	1x spot output 1 Vp-p, (F)E	BAS, 75 Ohm, BNC	
Video output	1x 1 Vp-p, (F)BAS, 75 Ohn Ohm	n, BNC; 1x S-VHS, S= 1 Vp	-p, C= 0.3 Vp-p, 75
Resolution	720 x 576 pixels (display)		
Compression method	MPEG-4, higher compress mum recording times	ion rates with same picture	quality enable maxi-
Recording speed		CIF resolution (336 x 272 pi CIF resolution (672 x 272 pi	
Picture size	Basic: 2/2.4 kB; Standard: (NTSC/PAL). 2 times large	4/4.8 kB; High: 8/9.6 kB; Ve r in High Resolution mode	ery high: 12/14.4 kB

# Specifications DLR3-08N/XX, continued

Model	DLR3-08N/160CDV	DLR3-08N/410CDV	DLR3-08N/660CDV
Hard disk capacity	160 GB ATA hard disk, expandable to as many as 3 internal hard disks	410 GB ATA hard disk, expandable to as many as 3 internal hard disks	660 GB ATA hard disks
Playback speed	25 half-screen images per Duplex	sec at CIF resolution (336 x	272 pixels/PAL) and
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 s	trip)	
Alarm reset	1x TTL (terminal strip)		
Alarm messages	System error, hard disk er	ror	
Pre-alarm recording	Up to 30 minutes		
Recording medium	ATA-2 (EIDE) hard disks, I	ouilt-in CD-RW writer	
Archiving	-		
Menu languages	German, English, Italian, Frian	French, Spanish, Polish, Rus	sian, Czech, Hunga-
Ethernet port	10Base-T, 100Base-TX, R	J-45	
Remote software	For remote administration	and image search function (	RAS plus included)
Ports	2x USB, 1x RS-485, 1x RS	S-232 (remote control/config	uration or modem)
Power Supply	100 VAC~230VAC, 50/60H	·lz	
Power consumption	approx. 150 W		
Temperature range	5°C to 40°C		
Housing	Metal with plastic front par	nel	
Colour	Pantone 427C		
Dimensions (H x W x D)	88 x 430 x 393 mm		
Weight	approx. 7.4 kg		

# Specifications DLR3-16N/XX

Model	DLR3-16N/160CDV	DLR3-16N/410CDV	DLR3-16N/660CDV
EDP No.	71984	71985	71986
Video standard	PAL/NTSC (auto detection	)	
Remark	-		
Event logs	Unlimited number of entrie	s for alarm/event/text messa	ages, loss of signal
Security against unauthorised use	Key locking, 64 user group	s with programmable acces	s (up to 256 users)
Transmission rate	100 images per sec (PAL)		
Alarm triggering	E-mail, pager, remote SW	(RAS)	
Alarm activation	Automatic multi-screen dis	play of alarm images progra	ımmable
Remote Control	-		
Text display interface	ATM/POS, 10 channels ma	ax.	
Monitor display	Real-time playback: 25 fiel (NTSC) per camera	d images per sec (PAL), 30	field images per sec
Covert camera mode	Programmable		
Time synchronisation	Network time log, network	time server	
System change log	Up to 5000 entries for logir change of signal connection	n/logout, configuration chanon, n, disk read/write errors	ges, remote access,
Zoom function	2x		
Playback	Frame image, 4-/9-/16-cha	nnel split, PIP	
Post-alarm recording	Up to 15 minutes		
VGA	-		
Control interface	RS-485 port for PTZ control keyboard connection for re	ol (verified logs: eneo-Fastra mote control	ax, Pelco P/D) or
Activity detection	Programmable 16 x 12 (19	2) grid, 5 sensitivity settings	}
Simplex/Duplex/Triplex/Pentaplex mode	Duplex		
Video inputs	16x 1 Vp-p, (F)BAS, 75 Oh	ım, BNC, loop-through	
Monitor outputs	1x Spot-Outputs 1Vss, (F)I	BAS, 75 Ohm, BNC	
Video output	1x 1 Vp-p, (F)BAS, 75 Ohn Ohm	n, BNC; 1x S-VHS, S= 1 Vp	-p, C= 0.3 Vp-p, 75
Resolution	720 x 576 pixels (display)		
Compression method	MPEG-4, higher compress mum recording times	ion rates with same picture	quality enable maxi-
Recording speed		CIF resolution (336 x 272 pi CIF resolution (672 x 272 pi	
Picture size	Basic: 2/2.4 kB; Standard: (NTSC/PAL). 2 times large	4/4.8 kB; High: 8/9.6 kB; Ve r in High Resolution mode	ery high: 12/14.4 kB

# Specifications DLR3-16N/XX, continued

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Playback speed	25 half-screen images per Duplex	sec at CIF resolution (336 x	272 pixels/PAL) and
Export of picture data	via USB 2.0, CD writer. Network data export: Clip	Player, AVI, JPG, BMP	
Alarm inputs	16x TTL, programmable as	s NC/NO (terminal strip)	
Alarm outputs	2x relay output (terminal si	trip)	
Alarm reset	1x TTL (terminal strip)		
Alarm messages	System error, hard disk er	ror	
Pre-alarm recording	Up to 30 minutes		
Recording medium	ATA-2 (EIDE) hard disks, b	ouilt-in CD-RW writer	
Archiving	-		
Menu languages	German, English, Italian, Frian	French, Spanish, Polish, Rus	ssian, Czech, Hunga-
Ethernet port	10Base-T, 100Base-TX, R	J-45	
Remote software	For remote administration	and image search function (	RAS plus included)
Ports	2x USB, 1x RS-485, 1x RS	S-232 (remote control/config	uration or modem)
Power Supply	100 VAC~230VAC, 50/60H	łz	
Power consumption	approx. 150 W		
Temperature range	5°C to 40°C		
Housing	Metal with plastic front par	nel	
Colour	Pantone 427C		
Dimensions (H x W x D)	88 x 430 x 393 mm		
Weight	approx. 7.4 kg		

## Accessories

EDP No.	Short description
71857	250GB hard disk for DLR/DXR/DTR and DCR
71919	500GB hard disk for DLR/DXR/DTR and DCR
74088	System keyboard with 3-axis joystick
74092	System keyboard with joystick, 5" monitor
71902	USB mouse for DVR series DXR, DLR3

# **Supported PTZ cameras**

Manufacturer	Designation
Costar	CDC 2500
	CDC2400
Dyna Color	CRD-J6416
Chilsung Fine	CRD-36416 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
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
Samsung	MRX-1000

Manufacturer	Designation
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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