LUPUSTEC®
Digital Video Recording System

LE800 D1

Benutzer Handbuch

User Manual

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
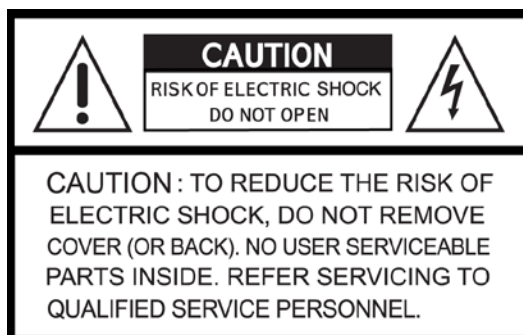
This symbol is intended to alert the user to the presence of unprotected "Dangerous voltage" within the product's enclosure that may be strong enough to cause a risk of electric shock.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

NOTE: This equipment has been tested and found to comply with the limits for a class digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at ones own expense.

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> **All the safety and operating instructions must be read before the unit is operated.**

- **Make sure to switch the power off before you install the DVR.**

- **There is the danger of an electric shock if the DVR is opened by an unqualified service engineer or installer.**

- **Avoid using the DVR outside of the reference temperature and humidity indicated in the specification.**

- **Avoid exposing the DVR to violent movement or vibration.**

- **Do not use or store the DVR in direct sunlight or near to any source of heat.**

- **Do not place any object into the holes used for air circulation.**

- **Always use the DVR in a well ventilated location to prevent overheating.**

- **Risk of explosion if battery is replaced by an incorrect type.**

- **Dispose of used batteries according to the instructions.**

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The author assumes no responsibility for any errors or omissions that may appear in this document nor does the author make a commitment to update the information herein.

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Chapter 1 FEATURES

- Realtime live display
- Realtime recording
- Two USB ports (for mouse usage and backup).
- Dual streaming enhances the speed of network transmission
- Built-in VGA output up to 1280x1024 resolution
- H.264 compression ideal for saving HDD space
- Live display, record, backup, playback and network access simultaneously
- Individual setup of resolution, frame rate and video quality for each channel
- Control Methods: front panel, USB mouse, IR remote controller, client viewer, mobile phone (some functions)
- Still image snapshot
- Intuitive GUI for easy configuration and menu driven operation
- Supports one channel audio recording
- 1 slot for SATA compatible HDDs with up to 2TB of storage
- AVI converter with time stamp
- Real time live display
- Picture-in-picture monitoring and 2X to 8X ditital zoom display
- Pan / Tilt / Zoom camera control
- Data backup: USB devices, network
- Event triggered with email notification: motion detection, alarm, video loss
- Supports Internet Explorer with same GUI as DVR site
- Multi-language OSD
- Central Management System (CMS)
- 3G/ GPRS mobile phone monitoring

Chapter 2 SCOPE OF DELIVERY
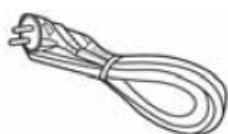
1. LUPUSTEC 800 D1 Recorder

2. Client Software CD

3. User Manual
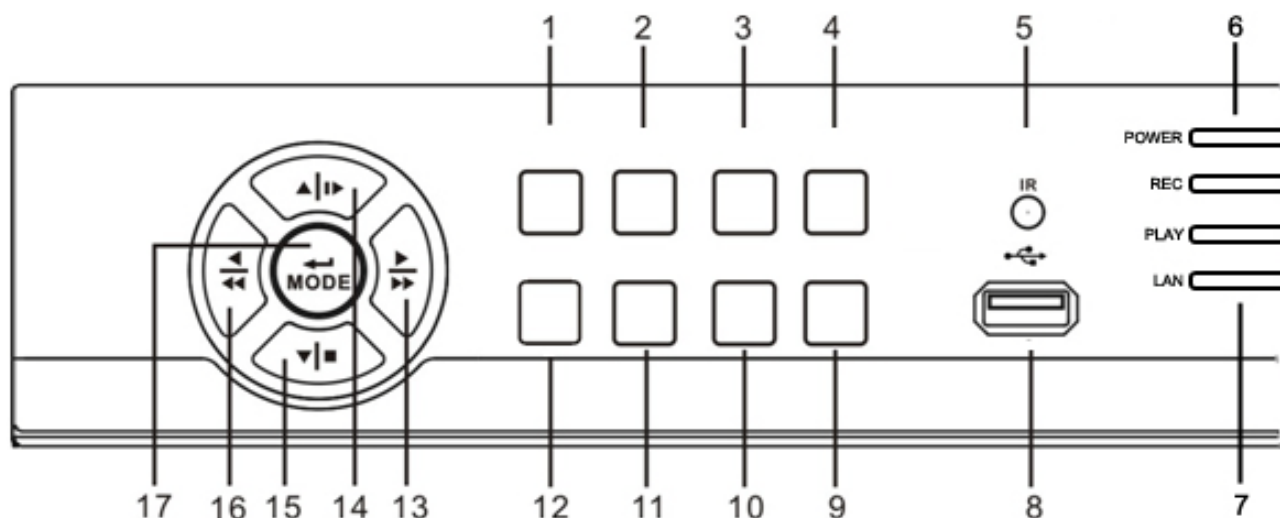
4. Remote Control

5. Power Cable

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7. Batteries

8. SATA Cable

9. Screws for HDD Integration

Scope of Delivery
1. LUPUSTEC 800 D1 Recorder
2. Client Software CD
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4. Remote Control
5. Power Cable
6. Power Adapter
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8. SATA Cable
9. Screws for HDD Integration

Chapter 3 Usage

3.1 Frontpanel Control

	Item	Description
1	MENU/ PAUSE (MENU/ ❙❙)	Enter menu mode, use Up/ Down button to navigate menu screen. Press to pause playback
2	PLAY	Start playing back.
3	SEARCH	Enter search menu screen, use Up/ Down button to navigate Press ENTER to access selected item
4	REC	Start/ Stop recording.
5	IR SENSOR	Input sensor for the remote control.
6	LED DISPLAY	Power
7	LED DISPLAY	Rec, Play, Lan
8	USB 2.0	The USB 2.0 port can be used to connect USB storage device.
9	PIP	Turn on picture-in-picture format, use Up/ Down button to navigate Press ENTER to access selected item
10	AUTO	Enable auto mode, to skip channels Press MENU to disable auto mode
11	ZOOM	Enable/ Disable double screen size display. Press ENTER to switch channels.
12	ESC/ BACKUP	Exit various functions and menu screen Enter backup seletion menu
13	RIGHT DIRECTIONAL BUTTON/ FAST (▶▶ /▶)	Right Directional Button. Fast Forward Playback, Speed: 2x, 4x, 8x, 16x, 32x, 64x.
14	UP DIRECTIONAL BUTTON/ SLOW (▲ / ❙▶)	Up Directional Button. Slow Forward Playback, Speed: 1/2x, 1/4x, 1/8x, 1/16x.
15	DOWN DIRECTIONAL	Down Directional Button.

■

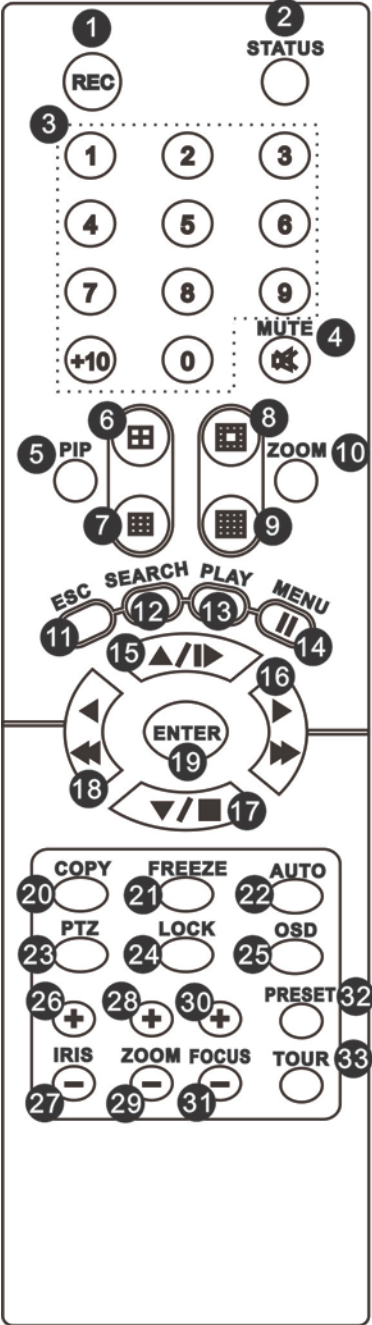|		
	BUTTON/ STOP (▼ /)	Stop Playback.
16	LEFT DIRECTIONAL BUTTON/ REWIND (◄ /◄◄)	Left Directional Button. Fast Forward Playback, Speed: 2x, 4x, 8x, 16x, 32x, 64x.
17	ENTER/ MODE (MODE)	Switch to full screen and quad screen.

3.2 Rear Panel Connectors
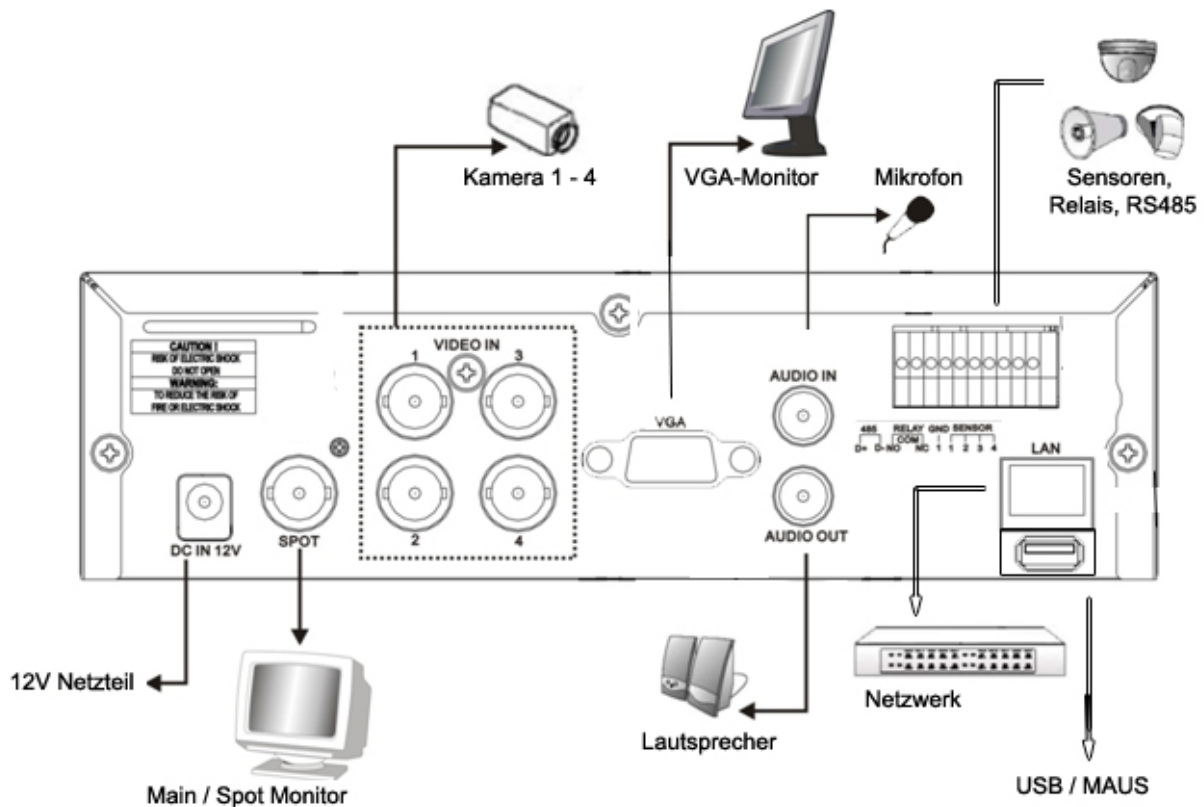
Description	
MAIN MONITOR	BNC port for the main monitor.
VIDEO IN	BNC input ports for cameras, 4 in total.
AUDIO IN	RCA input port for an audio signal
LAN	Network port.
VGA	Output port for the VGA monitor (option).
EXTERNAL I/O	EXTERNAL I/O port (*see below for pin definition*)
AUDIO OUT	RCA output port for an audio signal

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DC 12V	Socket for a DC 12V input.
USB	USB Mouse

3.3 Remote Control

Remote Controller – Button Definition	
○,1 REC	Start/ Stop Recording.
○,2 STATUS	Display Status.

○,3 CAMERA BUTTONS	Camera Select / Numeric Button. Press [+10] button to select channels.
○,4 MUTE	Switch to 1-CH Audio Out/ Turn Off Live Audio.
○,5 PIP	Enable/ Disable On Picture-In-Picture Format. Use Directional button to navigate the menu item, and press Enter button to enter the menu item.
○,6 ⊞	Switch to Quad Display.
○,7 ⊞	Switch to 9-Channel Display. 4-CH doesn't support this function.
○,8 ⊞	Switch to 13-Channel Display. 4-CH doesn't support this function.
○,9 ⊞	Switch to 16-Channel Display. 4-CH doesn't support this function.
○,10 ZOOM	Enable/ Disable double screen size display. Use Directional button to navigate the screen display, and press Enter button to switch channels.
○,11 ESC	Exit Button.
○,12 SEARCH	Enter the SEARCH menu. Use Up/ Down Directional Button to navigate the menu item, press Enter button to enter menu item.
○,13 PLAY	Start Playing Back.
○,14 MENU▮▮	Enable/ Disable Menu. Pause Playback.
○,15 ▲ ▮▷	Up Directional Button. Slow Forward Playback, Speed: 1/2x, 1/4x, 1/8x, 1/16x.
○,16 ▶ ▶▶	Right Directional Button. Fast Forward Playback, Speed: 2x, 4x, 8x, 16x, 32x, 64x.
○,17 ▼ ▪	Down Directional Button. Stop Playback.
○,18 ◀ ◀◀	Left Directional Button. Fast Rewind Playback, Speed: 2x, 4x, 8x, 16x, 32x, 64x.
○,19 ENTER/ MODE	Switch to Single Screen/ Quad Screen Display.
○,20 COPY	Enter the COPY menu.
○,21 FREEZE	Turn On/ Off Live Display FREZZE Function. Turn On/ Off Screen FREEZE Function.
○,22 AUTO	In AUTO mode, all available channels will be cycled through in full screen.
○,23 PTZ	Start/ Stop PTZ Control.
○,24 LOCK	Enable Keypad Function.
○,25 OSD	Turn On/ Off the Screen Display.
○,26 IRIS +	PTZ Iris-Open.
○,27 IRIS -	PTZ Iris-Close.
○,28 ZOOM +	PTZ Zoom-In.

○,29 ZOOM -	PTZ Zoom-Out.
○,30 FOCUS +	PTZ Focus-In.
○,31 FOCUS -	PTZ Focus-Out.
○,32 PRESET	Lens PreSet Point Setup Press PRESET button+ 2 numeric numbers to save current lens location PLAY+ Numeric Number to move lens to preset point.
○,33 TOUR	Activate PTZ Preset Tour.

3.4 Mouse Control
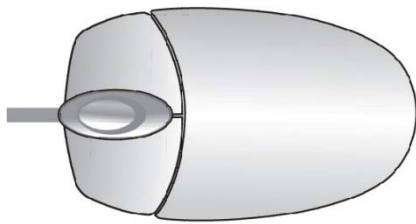
Live Mode

Single Channel Display	Move the cursor to the desired channel and double left click.
Change from Single-Channel to Multi-ChannelDisplay	Double left click

Mouse – Menu Mode	
Enter Menu setup	Right click
Select/ Enter	Left click
Return to Previous Page	Right click

3.4.1 Symbols

Description of menu icons	
	Resting the cursor on this icon will bring up the four (Main Menu/ Search/ Backup/ PTZ) menu icons: MAIN MENU. SEARCH SETUP. BACKUP. PTZ CONTROL.
	Turn On/Off recording.
	PLAYBACK
	Resting the cursor on this icon will bring up five (PAUSE/ PIP/ ZOOM/ AUTO SEQ/ LOCK) display icons. PAUSE, to pause LIVE image PIP, picture in picture ZOOM, zoom in / out the screen size AUTO-sequence. Displays channels fullscreen in intervalls. LOCK, password protects the main system functions
	Full screen display, multiple clicking to switch channels
	Quad display.

Description of system icons	
	System is recording
	Number represents the current selected LIVE audio channel
	Live Audio is off
	Motion detected on the channel
	Sensor triggered on the channel
	Video loss detected on the channel
	USB device detected
	DVR has been connected onto the Internet.
	AUTO-SEQ is on
2X	2X Zoom ist aktiviert.
	FREZZE is on, screen is frozen
	LOCK is on
	PTZ control is on
99%	Shows the current hard disk space used-up (99% means that the HDD space has been used up 99%, and the remaining HDD space is 1%)
2009/12/24 15:42:33	Display of date and time

3.4.1 Network Control

Same user and DVR-site interface, the only difference is the network toolbar which is located on the lower bottom right.

Icon	Description
LQ / HQ	Low Video Quality (LQ) High Video Quality (HQ) * Please refer to 4.7.2 HTTP setup
/	Full Screen on/ off
	Record
	Capture Image
	Record and captured files storage path settings
	Open / Close this tool bar

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2.3 Playback Mode

When playback is activated, the toggle bar is displayed lower right.

Playback – Quick Function Icon	
![rewind]	Press 「◀◀ / ◀ 」 button to Fast Rewind Speed : 2x, 4x, 8x, 16x, 32x, 64x
![forward]	Press 「▶▶ / ▶ 」 button to Fast Forward Speed : 2x, 4x, 8x, 16x, 32x, 64x
![play] / ![pause]	Press 「**PLAY**」 / 「❚❚」 button to Play/ Pause Playback
![slow]	「▲ / **SLOW**」 slow playback Speed : 1/2x, 1/4x, 1/8x, 1/16x
![stop]	「▼ /■ 」 stop playback Speed : 1/2x, 1/4x, 1/8x, 1/16x
![channel]	Playback channel by channel with snap shot display
![fullscreen]	Full screen display
![quad]	Quad display
![zoom]	Zoom in video image
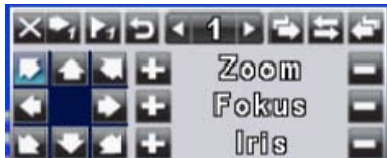
3.6 PTZ Mode

Under LIVE mode, PTZ icon [ ] will appear on the upper left of the screen or be re-located on any place of your screen by dragging the bar with your mouse.

PTZ – Remote Controller Control	
▲ / SLOW	Move PTZ up.
▼ / ■	Move PTZ down.
◄◄ / ◄	Move PTZ to the left.
►► / ►	Move PTZ to the right.
ZOOM +	PTZ zoom-in.
ZOOM -	PTZ zoom-out.
FOCUS +	PTZ focus-in.
FOCUS -	PTZ focus-out.
IRIS +	PTZ iris-open.
IRIS -	PTZ iris-close.
TOUR	Activate PTZ pre-set tour. *(currently not supported!!)*
ZOOM	Set current PTZ location as the start of the line-scan.
PIP	Set current PTZ location as the start of the line-scan.

FREEZE	Activate line-scan.

PTZ – Quick Function Icon

X	Exit PTZ Mode and back to the LIVE mode
1	Preset number N. (1~64)
→₁	Go to chosen preset number.
▷₁	Set current PTZ location with the preset number of your choice.
⤶	[TOUR] icon, click to activate preset tour, currently not supported.
➡	Same as [PIP]. Set current PTZ location as the starting point of the line-scan.
↻	Same as [FREEZE]. Activates Auto-Rotation.
⬅	Same as [FREEZE]. Activate line-scan.
(directional pad)	Same as [ZOOM]. Set current PTZ location as the ending point of the line-scan.
+ ZOOM –	To move PTZ in 360°
+ FOCUS –	PTZ zoom in or PTZ zoom out
+ IRIS –	PTZ focus in or PTZ focus out.

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Chapter 4 INSTALLATION

4.1 System Configuration
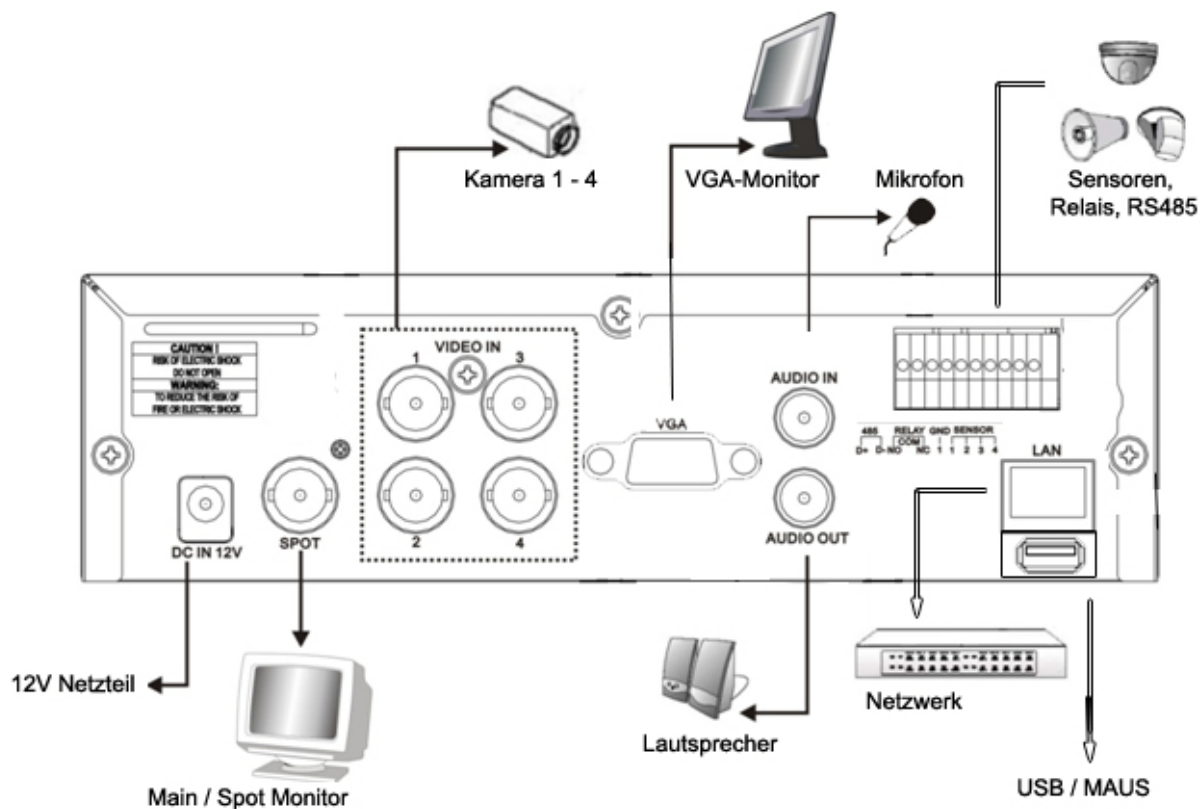
1. Connect Cameras 1-4 with VIDEO IN ports 1-4.
2. Connect a BNC- Display to to the MAIN-Monitor OUT or a VGA-Display to the VGA-OUT Port.
3. Check, if you have ordered the rekorder with integrated hard disk. If not, do as follows, to install a SATA-compatible hard disk.

4.2 Hard Disk Installation

Step 1 : Remove the 3 screws from DVR as cycled below (PIC 1).

(PIC 1)

Step 2 : Remove the front cover from DVR as indicated by the arrow (PIC 2).
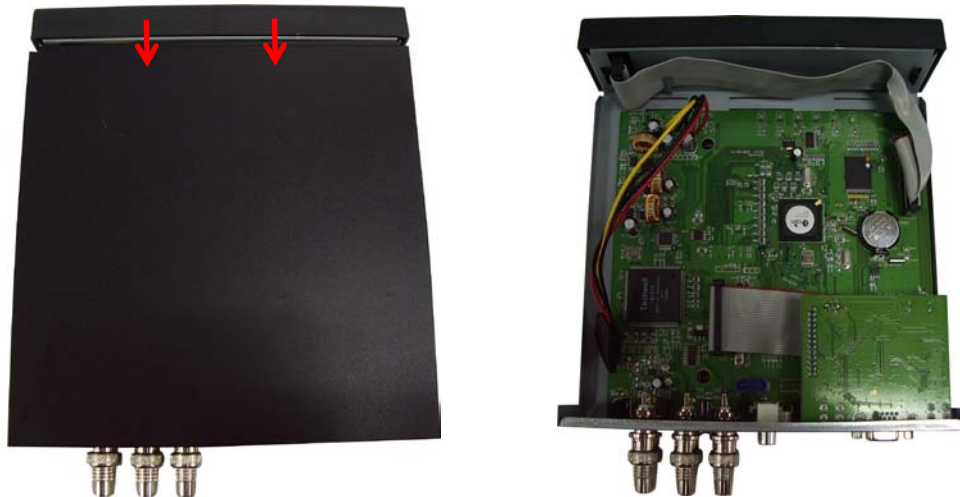
(PIC 2)

Step 3 : Place the HDD on the HDD plate and connect the power and the SATA cables (PIC 3).

(PIC 3)

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Step 4 : Screw the bottom of the DVR as indicated as cycled (PIC 4).

(PIC 4)

4.3 Create recording schedule

Your LUPUSTEC LE800 D1 works with recording schedules. Of course, you can also manually activate and deactivate recording at any time. You can schedule recordings via the following options: scheduled permanent recording, motion detection, and sensor detection.

1. **Manual recording**

   There are two options to activate recording manually:

   a) Press the REC-button on the front of the device

   b) Press the REC-button on your remote control

   c) Press the REC-button of the main menu bar of the user interface

   WARNING: Manual recording always overrules all other preferences and schedules. If you want to operate your device by other recording options such as scheduled recording, manual recording must be deactivated. Please press any REC-button again to deactivate manual recording.

2. **Scheduled recording**

   Activate scheduled recording as follows:

   Enter the main menu bar by clicking right or pressing the MENU button on the front or on your remote control.
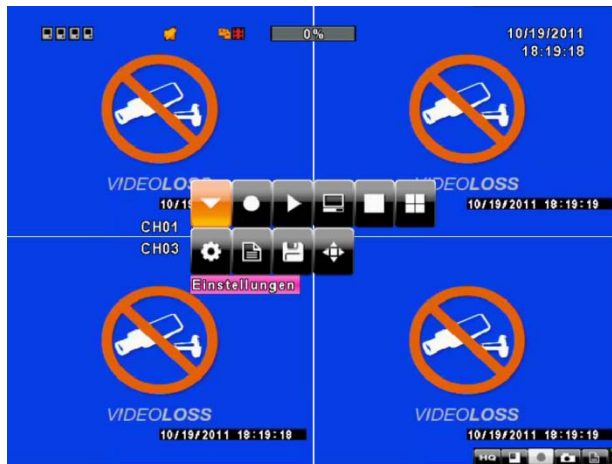
   Click left on or move the cursor to the main menu symbol and press ENTER.

   Please enter the admin password (standard password: 123456).

You've now entered the Main preferences menu. Please click on SCHEDULE.

On the left side, you'll find a table that contains the schedules. Please click or select the first timetable as shown below.

Timetable

Infoscreen. Shows parameters of selected timetable

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Upon clicking the timetable, a grey window opens, where you can choose between the following options:

a) Activate a continuous recording schedule
(Enable Schedule Recording)

b) Activate recording by motion detection schedule
(Enable Schedule Motion Detect)

c) Activate recording when sensor input port is triggered
(Enable Schedule Sensor Trigger)

Please continue by choosing the timeframe for your schedule. Please make sure to not choose a timeframe that crosses midnight to the next day. When you want to make a schedule that stretches over to the next day, you need to do two schedules. One schedule should stretch to max. 24.00. The other from 0.00 h onwards. Here's an example of making a schedule from 22.00h to 7.00h the next day:

WRONG:
*Schedule 1
START TIME: 22:00
ENDTIME: 07:00

RIGHT:
*Schedule 1
START TIME:: 22:00
END TIME: 24:00
*Zeitplan 2
START TIME: 00:00
END TIME: 07:00

For instructions on motion detection preferences please see p. 29ff.

CHAPTER 5: Main Menu

5.1 Access to the Main Menu

To enter the main menu of your recorder you have to login as an administrator (admin). The default password i 123456. Please refer to "Account Setup" for related setup of other log-in users

Main Menu – Mouse Control	
⬆	Switch between capital and small letters.
.?123 / ABC	Switch between numbers and letters.
Esc	Press to cancel the setup, and re-choose the login account.
⌫	Delete the last character.
⏎	Enter to identify the password. It will enter the setup menu if the password is verified.

Main Menu – Remote Control ler and Front Pannel Control (Click MENU button to enter Quick Setup Menu)	
◄ ►	Switch to different options under one item
▲ ▼	Switch to different items
MENU	Save setup and go back to LIVE mode
ESC	Back to Upper level of the menu
ENTER	Enter the menu, or display virtual keyboard

WARNING: Always confirm preferences and adjustments made with OK. The Cancel-Button will discard your changes.

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5.2 Record Setup

Item	Description
HDD FULL	Select STOP to stop recording or OVERWRITE to reuse the HDD when HDD is full. **[Stop]** : Stop Recording **[Overwrite]** : Start to overwrite beginning from the oldest data of HDD onwards (first-in-first-out principle), and continue to record.
OSD Position Setup	Use this menu to position the time stamp of every camera channel
Video Preservation (Hours)	Information stored within the HDD is preserved for only a specified length of time.
Quality & Frame Rate Setup…	Setup the quality and frame rate for each channel under normal recording and event recording type.

5.2.1 Quality and Framerate Setup

All preferences that you make are either applying to standard recordings (i.e. manual or scheduled continuous recordings) or event recordings (scheduled motion or sensor triggered recordings). Quality and framerate are both CPU-power consuming tasks, hence a very high resolution and quality diminishes slightly the ability to choose from high framerates and vice versa.

This panel is dedicated to make the right adjustments for both.

Item	Description
View Normal / View Event	Setup resolution, quality and FPS separately for different record type.
No.	Check/ Uncheck the box will enable/ disable recording of that channel.
Resolution	Choose record resolution, this value will be used by each channel.
Quality	Choose from Below Basic / Basic/ Normal/ High/ Highest.
FPS	Choose recording frame rate (max. 25 fps per channel).
Auto	Sets the max. available framerate depending on the resolution you've chosen and distributes it evently between the channels

The information "Normal XXX/400" means that the recorder is able to process 400 fps at the lowest resolution (320x288 pixel). Please not that this is a theoretical value, since you can choose max. 25 fps per channel. If

you choose a higher resolution the total fps goes up accordingly.

5.3 Event Setup

Item	Description
Motion Setup	Enter to set up motion detection
Sensor Setup	Enter to set up sensor detection

5.3.1 Motion Detection Setup

Item	Description
Alarm duration (Sek.)	This is the record time in sec. after a motion detection occured. Within this time no other motion event can be detected.
Motion popup	Check the box to Enable/ Disable popup screen function for all channels. When motion is detected in LIVE mode, the detected channel image will popup in full screen display.
1 2 3 4	Click on channel numbers to adjust each channel individually
Enable	Check the box to Enable/ Disable motion detection for each channel.
Sensitivity	Draw or move the white toggle bar to the left or right to adjust motion detection sensitivity. The higher the value, the more motion sensitive is your system: - Value 0-5 = Record only at middle to heavy motions - Value 5-10 = Record at light to very light motions
Motion area setup	Choose this function to setup the motion area of the camera image.

5.3.1.1 Motion Area Setup
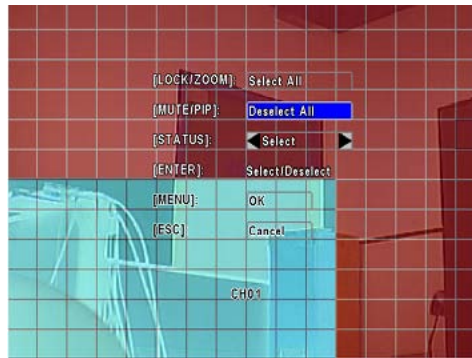
To adjust the motion area please click motion area setup. This function is another way to adjust motion detection and to minimize false alarm events. Per default, the grid is transparent, which means that motion detection is activated for the whole image. **If you want to exklude a specific area or object from motion detection, please mark this specific area red.** Only in zones that are marked transparent will detect motion.

Item	Description
Mask Mouse Selection	Check this box to adjust the motion grid with your mouse
All Area Detection	Click to select full image as motion detection area.
Mask All Area	Click to exclude full image from motion detection
Continue	Continue setup.
Exit & Save	Save your changes and exit setup page.
Exit & Discard	Cancel your changes and exit setup page.

IMPORTANT: To record at motion recognition, it is always necessary to activate a motion detection schedule in the Main Menu „Schedule". Please refer to chapter 5.4 for further instructions.

5.3.2 Sensor Setup

Item	Description
Alarm Duration(Seconds)	This is the record time in sec. after a motion detection occured. Within this time no other motion event can be detected.
Sensor Popup	Check the box to Enable/Disable popup screen function for all channels. When Sensor is detected in LIVE mode, the detected channel image will pop up in full screen display.
Sensor Polarity	Click or press▼ to select between HIGH/ LOW voltage for triggering sensor detection or OFF to turn off polarity for each channel **Low** Polarity : Sensor has not been triggered. When connected, sensor will be turned on (N.O.→N.C.). **High** Polarity : Sensor has been triggered. When connected, sensor status will be turned off (N.C.→N.O.). **Off** : Sensor is deactivated, and will not be turned on/off.
All off	Set all sensors polarity to off.
All Low	Set all sensors polarity to low level.
All High	Set all sensors polarity to high level.

IMPORTANT: The Sensor input ports have got a potential of 5V. Hence, Sensor devices to be operated with the LE800 D1 have to be potential-free. Use a two-pole cable to connect sensor device and recorder. One pole has to be connected with one of the sensor input ports (4 ports are available), the other pole has to be connected with the GND port.

IMPORTANT: To record at motion recognition, it is always necessary to activate a motion detection schedule in the Main Menu „Schedule". Please refer to chapter 5.4 for further instructions.

5.4 Schedule Setup

For all automatic recording modes such as motion controlled, schedule controlled and sensor controlled recording modes you have to make a schedule on top of your motion and/or sensor adjustments.

Every Schedule can be adjusted by time, weekday and date.

Item	Description
Page	Click or press ▼ to select Page. Each page provides 10 schedules for setup. 5 pages in total.
Table with schedules (00:00 – 24:00)	These are the schedules listed in a table on the left side of the window. You can use up to 50 different schedules. **Important:** It is not possible to make a schedule that crosses midnight from one day to the next, such as zB. 23:00 – 06:00. If you want to make a schedule which stretches from one day to another you have to do two seperate schedules, such as 1. 23.00-24.00 2. 00:00-06:00
View Event Setup	View Normal/ Motion / Sensor Setup.
Normal, Motion, Sensor	Check one of these buttons to see, which parameters are active on which day. E.g. if you check the Button „Motion", you will see on which day automatic recording at motion detection is activated.

5.4.1 Schedule Record Setup

Click on one of the schedules on the left table to enter the schedule control window and to make detailed adjustments of Event type, time and week day.

If you want tohave different schedules with different automatic recording types at different times or week days, you have to activate two or more schedules. Example:

1. The first schedule shall serve as a automatic motion detection recording schedule from 00:00 h to 08:00 h from Monday to Friday.

2. The second schedule shall serve as normal permanent recording plan from 08:00 h to 18:00 h from Monday to Friday.

3. The third schedule shall serve as automatic motion detection recording plan from 18:00 h to 24:00 h from Monday to Friday.

4. And finally, the forth schedule shall serve as a motion detection recording schedule for week end days from 0:00 h to 24:00 h.

IMPORTANT: Please refer to Chapter 4.3 for another detailed description on how to make a recording schedule.

5.4.2 Holiday Setup

Use this panel to individually program over 50 Holidays per date. Check the holiday option within your schedule to activate a holiday schedule.

5.5 Camera Setup
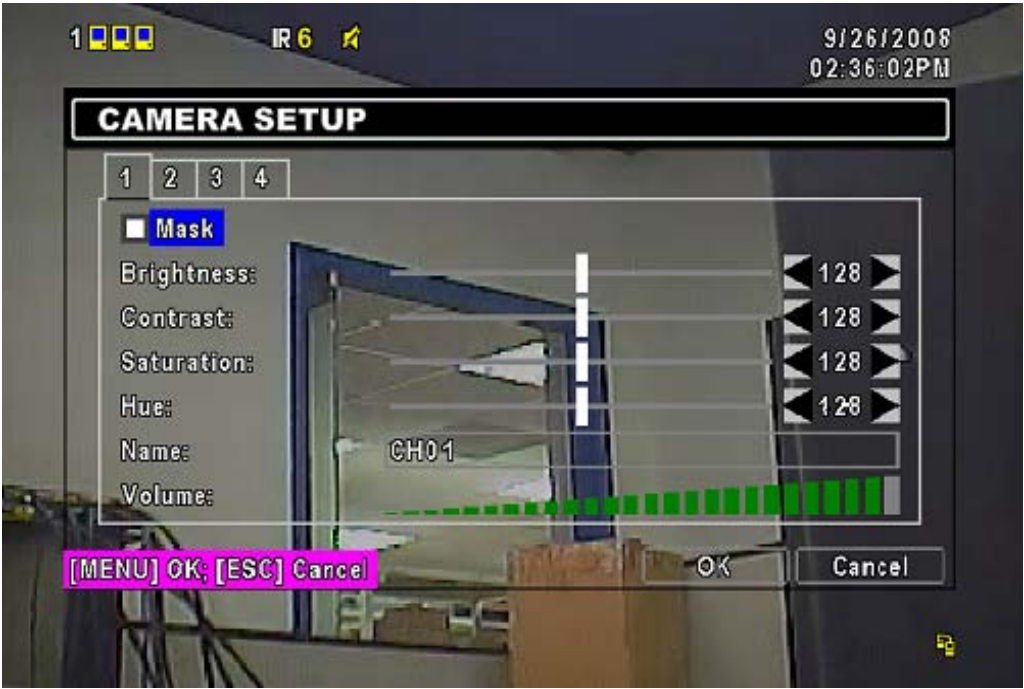
Item	Description
1 2 3 4	You can setup every camera image independently for each channel.
Mask	Check the box to to hide the camera image in LIVE mode
Brightness	Drag the white bar to adjust Brightness of your camera from value 1 to 255. The default value is 128.
Contrast	Drag the white bar to adjust Contrast of your camera from value 1 to 255. The default value is 128.
Chroma (U)	Drag the white bar to adjust Chroma (U) of your camera from value 0 to 255. The default value is 150.
Chroma (V)	Drag the white bar to adjust Chroma (V) of your camera from value 0 to 255. The default value is 150.
Name	Set up name of each channel.
Volume	Select to adjust audio volume for CH1 to CH 4 under LIVE mode and recording mode.

5.6 Account Setup

The Account Setup menu is used to provide role-based permission independently for each user (max 4 users) to access the DVR over network.

The default account is [admin]:

Username:	**admin**
Password:	**123456**

Item	Description
1,2,3,4	Check Box to activate user account
Username	Enter a new or existing username
Password	Enter a password for the user.
User rights management	Click to enter user rights panel, see chapter 5.6.1 for further instructions.
Change…	Change user image (BMP Format)
Change Admin password…	Use this option to change the admin account password. You have to enter the existing password, the new password and confirm the new password. **CAUTION: If you lose your password, the device has to be returned to LUPUS-Electronics in order to get a factory password reset. This procedure is subject to postal and handling charges.**

5.6.1 User Rights Permission Setup

Caution: The Admin Account has always ALL user rights. Individual user rights can only be granted to added Users.
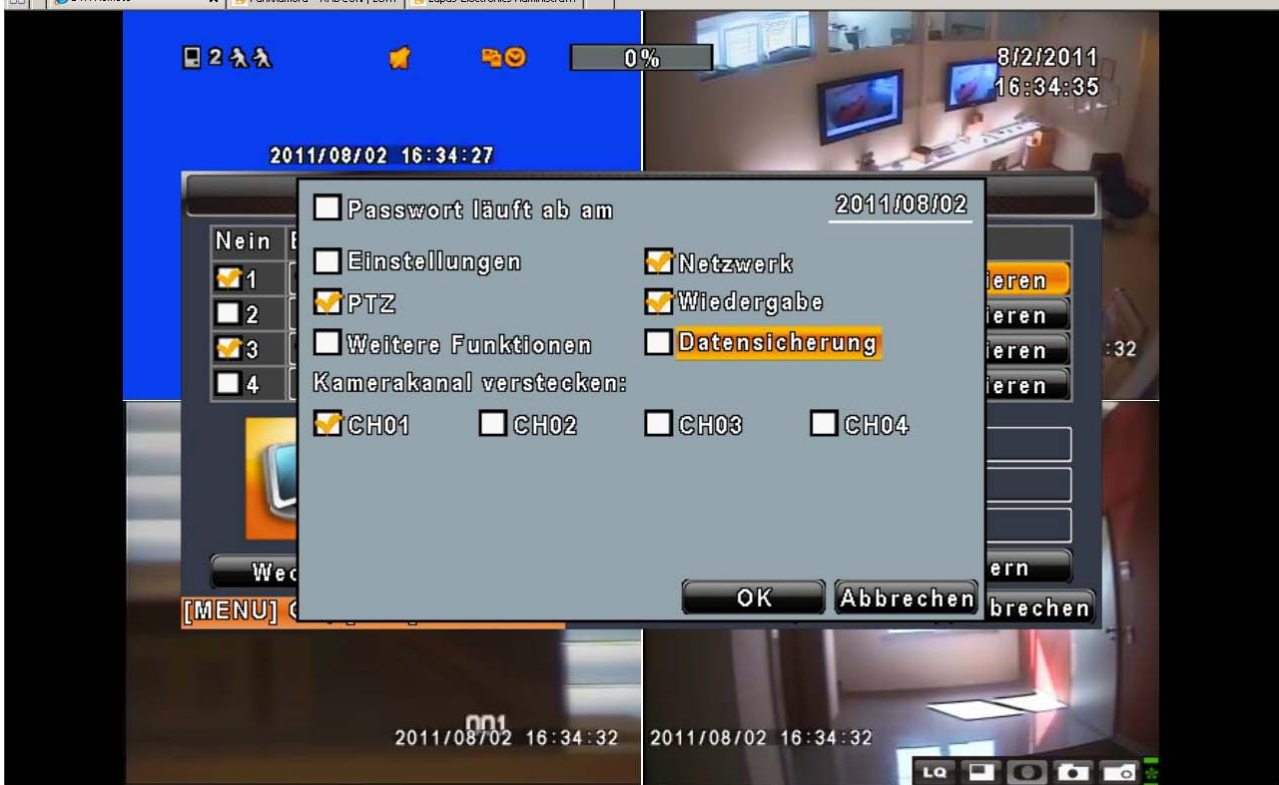
Item	Description
Password Expiry Date	Check the box and click on the date to enter a password expiry date.
Setup	User has the right to enter the main setup menu and make changes.
PTZ	User has the right to control connected PTZ cameras.
Utility	User has the right to access utilities menu and is able to delete HDD or Logbook.
Network	User has the right to access the recorder via network.
Playback	User has the right to playback recorded video files
Backup	User has the right to back up data from the recorder.
Remote & Playback Mask	Check one or more boxes to hide these camera channels from this user via al access types.

5.7 Network Setup

Item	Description
Connect type	Setup mode for network connection: **ADSL**, **DHCP**、**LAN.**
HTTP Setup	Enter to set up HTTP for remote access into DVR.
DDNS Setup	Enter to Enable/ Disable DDNS function and set up.
Mail Setup	Enter to Enable/ Disable Email notification and setup.

5.7.1 Networking Setup

To setup a network connection, please connect your LUPUSTEC – LE800 D1 with your network first. The recorder can be connected to your internet router, switch, WiFi-switch, etc. The recorder supports DHCP, fix LAN-IP adress and ADSL network connection types.

5.7.1.1 DHCP

We recommend to use the DHCP connection mode, if available. By using this mode, your recorder will receive

a network address from the DHCP-Server of your network. In most cases, the DHCP server is your internet

router. It enables your recorder to connect automatically to your network and to communicate immediately with all devices connected to your network. You'll find the automatically distributed IP-Address in the Main Menu „Diagnostic". It consists of 4 numeric pairs, each seperated by a full stop, e.g. 192.168.1.13. (See Chapter 5.11 for further instructions on the Diagnostics Menu).

IMPORTANT: If your DHCP-Server is not configured in the right way, it can happen that your recorder periodically receives a new IP-Adress, which can lead to all sorts of problems, e.g. you cannot access your recorder with the known IP-Address and other parameters might not work as a result. In most cases, you can configure your IP server in a way that it always distributes the same IP-addresses to the same devices. Please check the manual of your DHCP server for further instructions.

5.7.1.2 LAN Setup

If you choose to connect your LUPUSTEC – LE800 D1 Recorder via your network with a fixed, prechosen IP-Address, you have to choose the LAN mode in your network setup menu. Please enter the following information:

Item	Description
IP Address	Enter fixed IP address
Subnet Mask	Enter IP address of Subnet Mask
Gateway	Enter IP address of Gate way
DNS	Enter DNS address. (Note: The correct DNS address must be entered for DDNS function).

Attention: In order to know the network address of your home network, please refer to the preference panel of your network setup of your computer. If you happen to use a Windows PC, please press the windows and R keys simultaneously. As soon as the DOS Terminal window appears, please type in „IPCONFIG" and press return. The current network address will appear, .e.g. 192.168.1.4. Within a network, the first 3 number pairs of the IP-address of all connected devices have to be identical. The last number pair is different and thereby differentiate between the devices.

5.7.1.3 ADSL

If you would like to choose ADSL as a network option, please choose „ADSL" Choose this option only, if you want the recorder to be connected to the internet via modem and PPPOE/ Dial In connection and not via an internet router.

Item	Description
User Name	User Name of your internet service
Password	Password of your internet service

5.7.2 HTTP Setup, Access via internet

Item	Description
Activate HTTP Server	Check the box to activate http server. This enables access via network/ internet to your recorder by using the Microsoft Internet Explorer browser. This option should always be activated, if you want to use your recorder via network/ internet.
Port	The preset port is 80. Use this port or choose a different port between 1 and 65000. If you choose a different port than 80, you must add this port with a colon behind the IP-Address when accessing your recorder via Internet Explorer. If you might choose port 10001, you have to type e.g. http://192.168.1.38:10001 into the address line of your browser. **CAUTION:** Some Internet Service Providers and some mobile phone carriers Einige Internet-Service-Provider und Mobilfunk-Anbieter sperren den Port 80 für Videostreams, in diesem Falle muss ein anderer Port gewählt werden.
Quality and Framerate of Network Transmissions	
Channel	Check Box to activate the channel for network access

Quality	Choose quality level of transmitted image.
BpS	Chose Frames per Second rate. (1~30FPS).
Auto	The maximum frames per second available will be evenly distributed between the channels

IMPORTANT: These parameters will effect only live network transmission with the live window toggle bar option set to LQ (low quality). You can also use it to adapt to low or bad internet connection circumstances by choosing lower quality and fewer frames. If you would like to have higher quality video transmission please set live window toggle bar to HQ.

The HQ option will use the parameters made within the record > quality and framerate menu of the recorder.

5.7.3 DDNS Setup

A DynDNS address is necessary if you want to access your recorder via Internet and your internet service provider distributes (as it is common usage) dynamic external IP-addresses. Dynamic IP-addresses change every 24 hours. Hence the need to setup an unchanging address, that enables you to access your recorder always with the same URL. You need to register a free user account with a DDNS-Service Provider, e.g. no-ip.com. After you've received your hostname, username and password you may enter these informations here.

CAUTION: If you access your recorder via an internet router please do not enter DDNS-information into this recorder menu. Instead, please use your internet router as the main DDNS-client. If you use the recorder as a dial in device to connect to the internet via modem (ADSL, PPPoE) you must enter the DDNS-Information directly into this menu, such as follows:

Item	Description
Enable DDNS:	Activate or deactivate DDNS-functionality
DDNS Server:	Chose a DDNS service of your chose from the menu (e.g. DYNDNS.ORG, NO-IP.ORG, EZ-DNS, 3322.org). Please remember that you have to register on the website of one of these services first.
Hostname:	Enter full ddns-hostname URL. (e.g. my-name.dyndns.org)
Benutzername:	Enter DDNS user name.
Passwort:	Enter DDNS password.

5.7.4 Email Setup

E-mail can be used as a form of notification when an event occurs (VLOSS, MOTION, and SENSOR).

Item	Description
E-Mail	Check the Box if you want to use email notifications
Port	The Standard-SMTP-Port is 25, this value can be different depending on your email provider.
SMTP Server	Please enter the SMTP Server of your choice (e.g. smtp.web.com)
Username	Please enter your email-username.
Password	Please enter your email password.
Sender E-mail	Please enter the email address that should stand as sender. (z.B. sender@yourserver.com)
E-mail Addresses	Enter E-Mail adressees, to which you want to sent email alert notifications (e.g. adressee@yourserver.com). You can enter up to 10 email addressees.
Event Trigger	Please choose event types that should trigger email alert notifications. You can choose motion detection, video loss or sensor alert. You cannot control email alerts by personalised schedule.

WARNING: Not every email service provider grants usage of external mail service on a LE800+ device

5.8 PTZ & RS-485 Setup
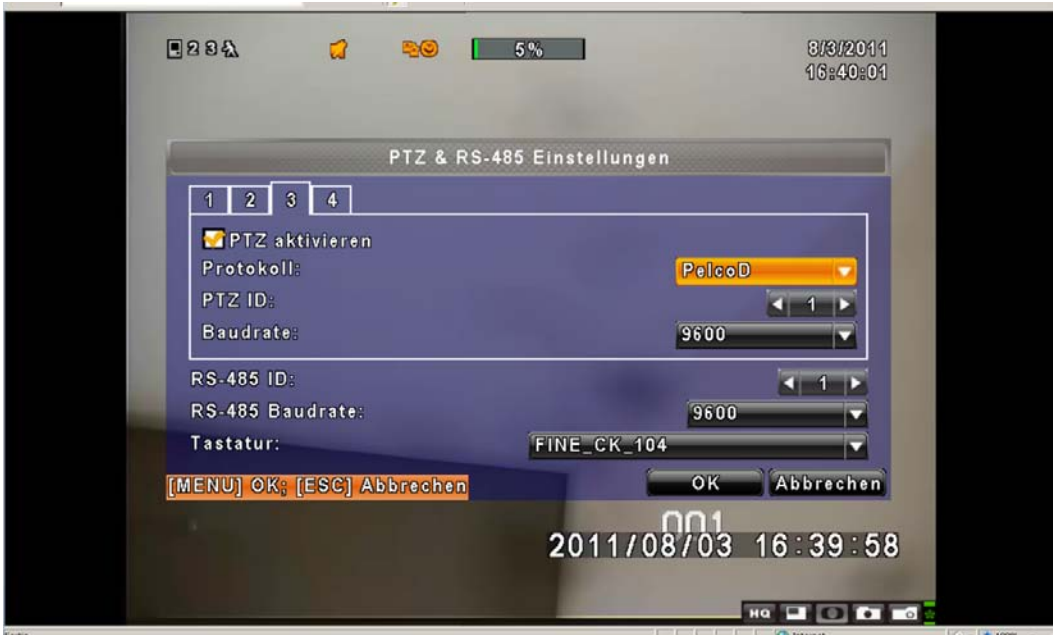
With your LUPUSTEC LE800 D1 Recorder, you can also control your PTZ cameras. To setup PTZ control, you have to connect your LE800 via its RS485 Port and a 2-pole cable with your PTZ-camera: Connect the (D-)-Pole of your recorder with the (D-)-Pole of your camera. Do the same with the (D+)-Poles.

Item	Description
1,2,3,4	Click the channel to which your PTZ-camera is connected to adjust parameters for the camera.
Enable PTZ	Check the Box to enable PTZ control for this channel.
Protokoll	Choose the same PTZ protocol for both recorder and camera. Please check the protocol that your camera is using first. Then proceed back to this recorder menu to choose the same protocol. The recorder supports the following protocols: **PELCO-P, PELCO-D, KND, Li-Lin, FastraxII, LG Multix, Samsung and AVTECH.**
PTZ ID	Click or press ◄ ► to choose a PTZ-ID for this camera. You can choose a value from 1 to 64.
Baud Rate	Choose the same baudrate on your recorder as chosen for the camera. It supports 2400, 4800, 9600 or 19200 baud.

5.9 System Setup

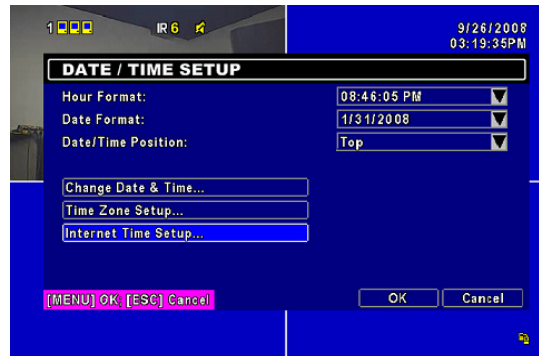| Item	Description
DVR Name	The name of the recorder will be displayed, if the user accesses the recorder via network/ internet. The DVR name is opional.
DVR Location	The Location of the recorder will be displayed, if the user accesses the recorder via network/ internet. The DVR Location is opional.
Language	Klick or press the drop down menu option to choose a system language. Supported languages are: German, Turkish, English, French, Dutch, Portuguese, Greek, Polish, Spanish, Italian, Hungarian, Hebrew, Russian, Arabic, Persian, Traditional and Simplified Chinese, Korean, Japanese.
Display Setup	Click to enter display setup menu
Date/ Time Setup	Click to enter Date/Time setup menu
Device Setup	Click to enter setup for buzzer and relay as well as mouse control
Spot Setup	Enter spot monitor setup

Auto-Lock	Click drop down menu to choose between 3 different options		
	Option \ **Function**	**Automatic auto-lock after 1 minute**	**Enter password after logout**
	Disable	No	No
	Key Unlock	Yes	No (deactivated for live access, activated for main menu access)
	Key Lock	Yes	Yes (password always required)

5.9.1 Display Setup

Item	Description
Auto-Seq Interval (Seconds)	Click or press arrows to set up duration time in seconds for the interval between channels under Auto-Seq mode (1~999 seconds).
Show OSD	Turn system display information on or off. If you choose to uncheck all boxes, no system information will be shown at all.
Show DVR Status	Turn On / Off DVR illustration and record status display
Show Date/Time	Turn On / Off date and time display
Show Channel Name	Turn On / Off channel name display
Video System	Switch Auto / NTSC / PAL
Border Color	Set up the color of border in LIVE , PLAYBACK mode.

5.9.2 Date and Time Setup

Item	Description
Hour Format	Choose between a 12HOURS or a 24HOURS time display
Date Format	Choose date format
Date/Time Position	Choose the position of Time and Date display
Change Date & Time	Setup time and date of DVR
Time Zone Setup	Set up your time zone and Daylight Saving Time.
Internet Time Setup	Setup automatic synchronization with internet server

5.9.2.2 Time Zone Setup

Item	Descriptiojn
Zeitzone wählen	Choose your time zone by taking the GMT timezone (London, UK) as standard time (GMT 0). You can choose from GMT -13 (Western Hemisphere relative to GMT)all the way to GMT +13 (Eastern Hemisphere relative to GMT) West- und Centraleurope (e.g. Germany, Austria, Switzerland, France, BENELUX, etc.) is inside the GMT+1 timezone.

Daylight Saving Time	Check box to activate daylight saving time.

5.9.2.3 Synchronisation with Internet Time Servers
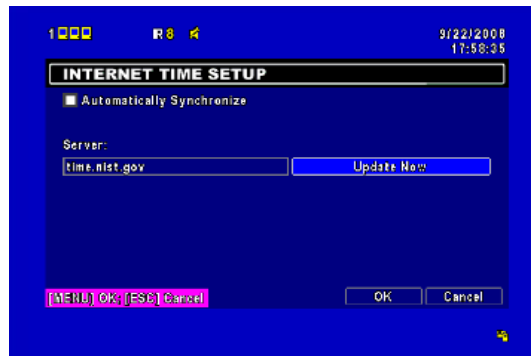
| Item	Description
Automatic Synchronization	Check to enable DVR automatic synchronization function. Select this option to enable the function, DVR will automatically synchronize the time upon rebooting or by every 24 hours after booting.
Update Now	Date and Time show on DVR will immediately correspond with those in internet server.

5.9.3 Device Setup

Choose your mouse speed as well as the submenu to adjust buzzer and relay functions.

Item	Description
Mouse Speed	Adjust the mouse moving speed
Buzzer & Relay Setup	

Key Tone	Enable/ Disable keystrokes.
ALARM BUZZER	Enable/ Disable buzzer operation when the alarm is triggered for HDD error, sensor, motion and vloss (Video Loss).
ALARM RELAY	Enable/ Disable the signal to be sent to the RELAY OUT blocks when the alarm is triggered for HDD error, sensor, motion and vloss.

5.9.4 Spot Monitor Setup
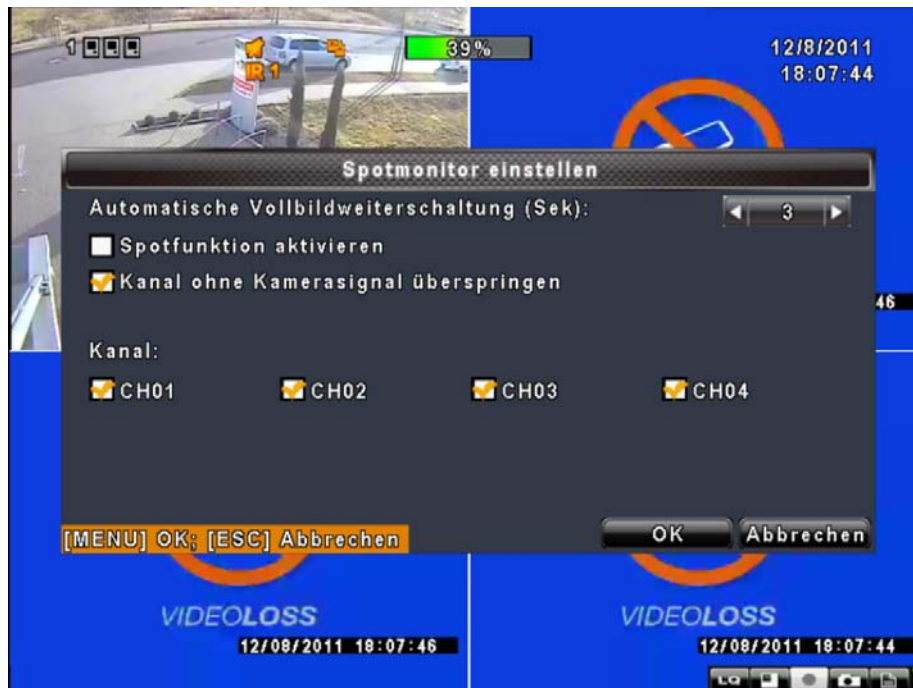
The LE800 D1 provides two ways of displaying video images: One option are the two main monitor output ports, which provide split screen display and full access to all parameters and functions. The other option is the spot monitor output: It provides the possibility to show fullscreen images of the channels in interval mode. The intervall time can be adjusted as you choose. To use this function, you have to connect a display to the spot monitor output port on the back of your device.

Item	Description
Activate Spot	Activates the Spot-Function for the Main/Spot BNC Output
SPOT MODE	Channels display in spot for three different modes: MANUAL: Select channels to display manually, select channels will be transfered to the SPOT monitor. SEQUENCE: Auto-sequence for all channels in order. EVENT: Display channels with event occurred.
Interval (Seconds)	The duration interval time between channels is in seconds under SPOT mode (can not be set to 0 seconds).
Skip Video Loss Channel	Whether to skip channels without video signal.
Channel	Activates the selected channel for the spot function

5.10 Utility Setup

Item	Description
HDD Initialization	Select to enter hard disk initialization menu. **Please stop recording before entering this menu.** Enter the menu, system will show all the data (model/ volume) of HDD that is installed in the DVR. Check the HDD you'd like to initialize, then press "Start". HDD initialization is successful when the status shows "Succeed".
USB Initialization	Clean up all data on USB. Enter USB initialization and press "YES" to clean up all data on your USB. The initialization is done when it shows "Succeed".
Set System to Default	Restore system default values.
Reset System Events	Delete all DVR log entries.
Copy Setup to USB	Copy configuration to a USB device. There will be a file named "sdvr.config" on your USB.
Download Setup from USB	Download configuration from a USB device into DVR.
Ugrade	Upgrade Firmware of DVR from USB Stick.

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	Please stop recording and backup setup configuration before upgrading.
	System will reboot automatically when the upgrade is completed.

NOTE！   DO NOT TURN OFF POWER OR UNPLUG USB DEVICE DURING THE UPGRADE as it
may cause incomplete firmware upgrade and damage to the DVR.

5.11 Diagnostic

Item	Description
Version	The current firmware version of DVR
IP Address	The connected IP address of DVR. If disconnected from network, the screen will display" NETWORK DISCONNECT".
MAC Address	MAC Address of DVR
HDD Volume	The capacity of HDD
HDD Used Rate	Percentage of space used on HDD.
HDD Status	Shows HDD status.

	UING means the HDD is now used for recording. **GOOD/ BAD** means the HDD has a known/ unknown format for the DVR. (Note: Please initialize your newly-installed HDD before using it, otherwise it can be recognized as BAD by the DVR).
Format Time	The latest format time of HDD

ENGLISH

Chapter 6 Search & Back-Up

6.1 Record Search & Setup

Item	Description
Event Search	Press to enter event search menu.
Time Search	Press to enter time search menu.

6.1.1 Event Search via Event Log

The LE 800 D1 automatically records events with type, time and channel information included. If there is recording data for an event, a yellow signal ▶ icon will be shown on the left side of time information. Rest your cursor under the line and press "enter", or left click your mouse to playback the recording data.

Item	Description
Criteria	Setup conditions of the event search function
Page	pages of event tables
Date/Time	Date/ time when the event occurred.
Event Type	Event type, defined as following: **Motion** : Motion Detected **Sensor** : Sensor Detected **Video Loss** : Video Loss **Remote Login** : User log-in over the network **Remote Logout** : User log-out over the network

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	Power On	: System Reboot
	HDD Full	: HDD is FULL
	HDD Error	: HDD failure
	Reboot	: System reboot
Channel	The channel where the event occurred.	

6.1.1.1 Criteria Setup for Event Search

NEUEs BILD!!!

The amount of events can be numerous. Therefore, you can facilitate event sorting by setting up "criteria". Setup "start time" and "end time" for each event search, then the search result will be limited to this specific period of time. Only events and channels that are ☑ checked will be sorted in event search as well.

6.1.2 Time Search

TIME SEARCH, you can search for a specific time of the recording data to playback. Dates with recording are shown by data marked with a red square [□]. System will start playing back according to the date that you've selected. Calendar will be shown by using mouse to click on "year" and "month".

Click "date" to display recording time of that specific date with time bar. You can change time (hour/ minute/ second) or click on a specific time of time bar by mouse then press "**YES**". DVR will playback the selected recording data.

6.2 Backup Setup

User can back-up any segment of recorded data in a specified time frame. To do so, connect a USB to the DVR. The format of backup file is *IRF* file and can be played by " iFilePlayback" or "iCMS".

Item	Description
From	Backup file starting time
To	Backup file ending time
Device	Select USB as the backup device
Free Space	The available space in your backup device
Refresh	Recalculate the available space of backup device
Calculate	Calculate the size of backup file
Start	Start backup operation. **Be sure to calculate the size of backup file BEFORE operating backup.**

NOTE！ **Do not unplug the USB device or turn off the DVR during the backup process to avoid unrecoverable error. When backup is completed, you need to re-plug in order to insure proper function.**

Chapter 8 Network Access

8.1 Access your recorder with your PC or MAC

Step 1 : Enter the IP address of the DVR in the IE browser.Geben Sie die IP-Adresse
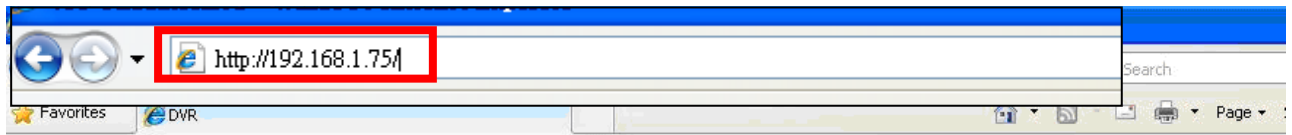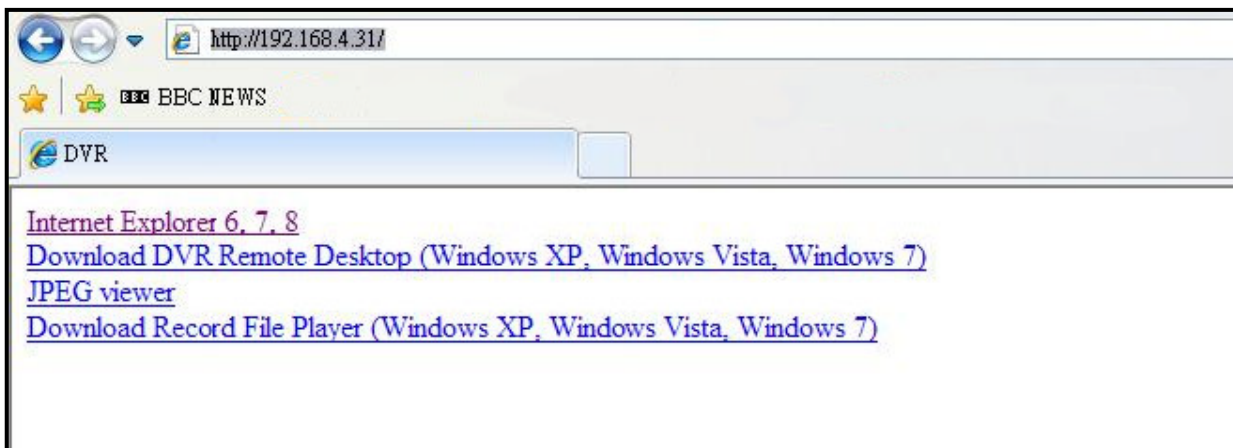
Schritt 2: A window will pop-up. Please enter the user name and password. Default user name is **admin** and password is **123456**. Other related setup about user account and password, please refer to **"5.6 Account Setup"**.
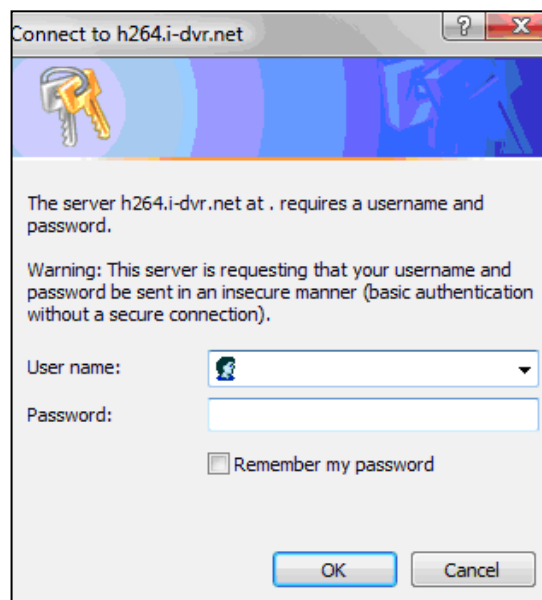
Step   3: Gateway for Remote Access

Internet Explorer 6, 7, 8:
Click this link for accessing your recorder with the currently open Internet Explorer Window. This leads to the main user interface that you already know. You have got full functionality on all otions. This type of access is only possible via the internet explorer browser, other browsers are not supported.

Download DVR Remote Desktop (Windows XP, Windows Vista, Windows 7):
Click this link to access your recorder by downloading and starting the DVR Remote Desktop app on a WINDOWS PC. After starting the downloaded app, you have to enter again IP-Address, Port, username and password. Click connect. This leads to the main user interface that you already know. You have got full functionality on all otions.

Download DVR Remote Desktop (Mac OS X 10.6 or above):
Click this link to access your recorder by downloading and starting the DVR Remote Desktop app on a APPLE MAC computer. After starting the downloaded app, you have to enter again IP-Address, Port, username and password. Click connect. This leads to the main user interface that you already know. You have got full functionality on all otions.

JPEG viewer: Live Viewer with access to mobile device size live camera images, supports all browser brands. Suited best for smart phone access.

Download Record File Player (Windows XP, Windows Vista, Windows 7):
Download iFilePlayback-Player to view backed up IRF-Video surveillance files.


IMPORTANT NOTE FOR ACCESS VIA INTERNET EXPLORER 6,7,8:

To access your device via internet explorer you have to make sure that the ActiveX-Control plugins of your

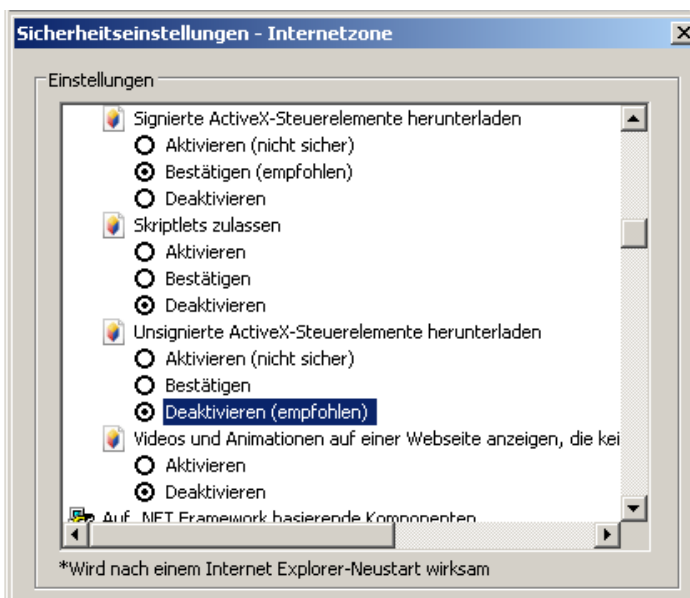browser are activated. Please follow these steps:

- Enter the setup for Active X controls here: Extras > Internet Options > Security > Adjust Setting.

- Scrollen Sie bis zur Überschrift "ActiveX Steuerelemente und Plug-Ins"

- Please check the first three boxes as follows:

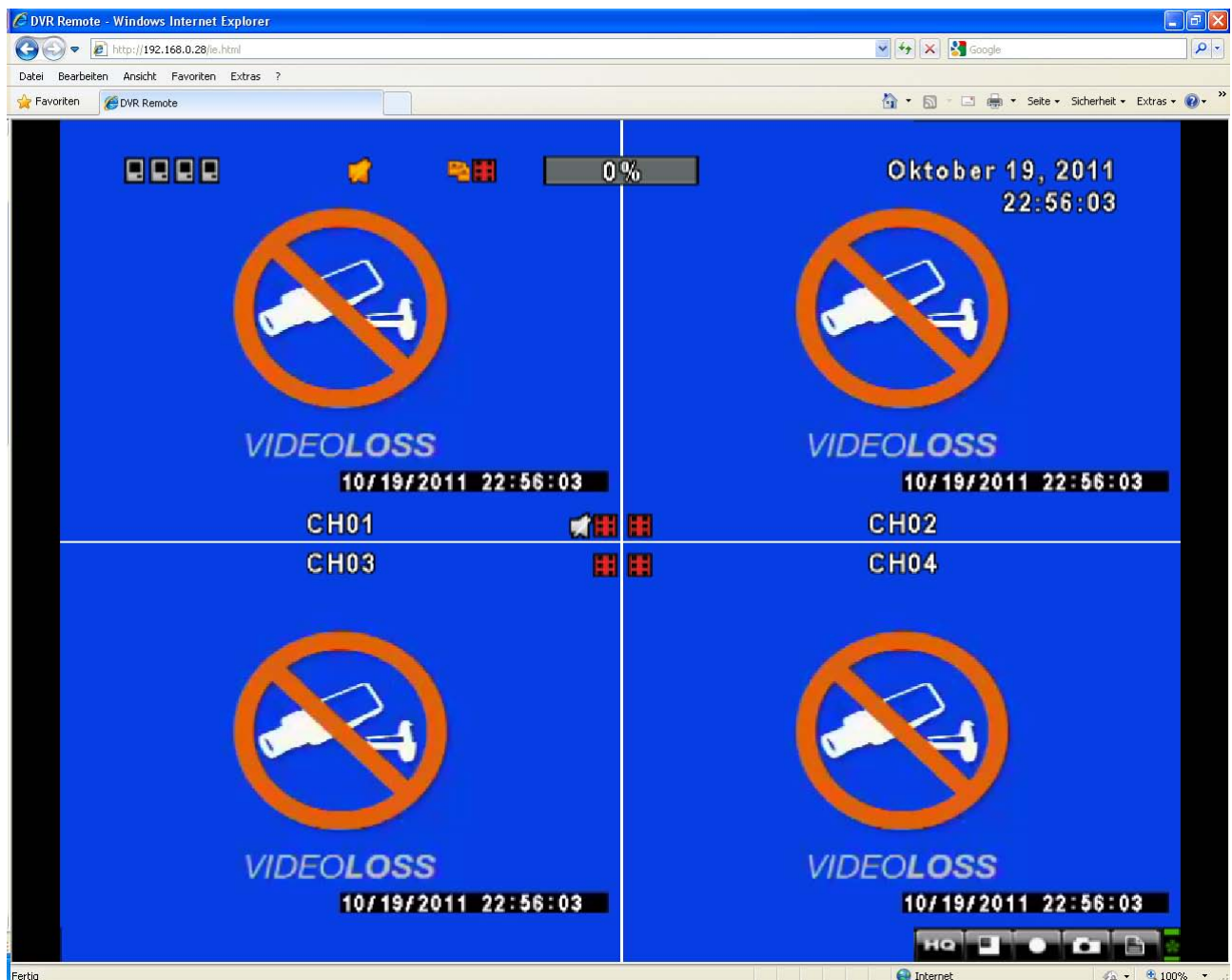56
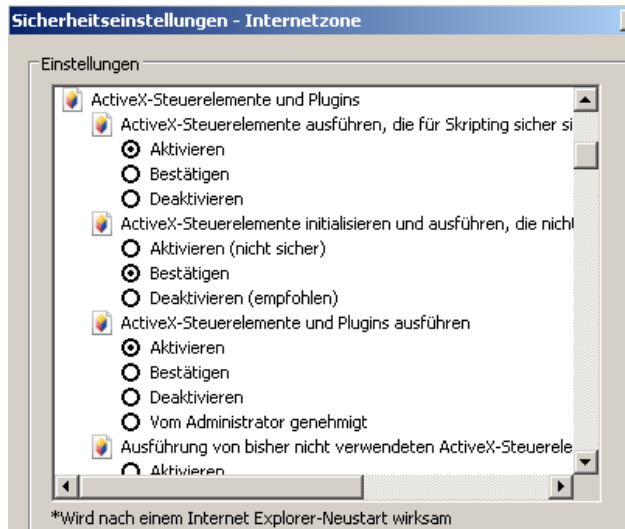
- Please check the next four boxes as follows:
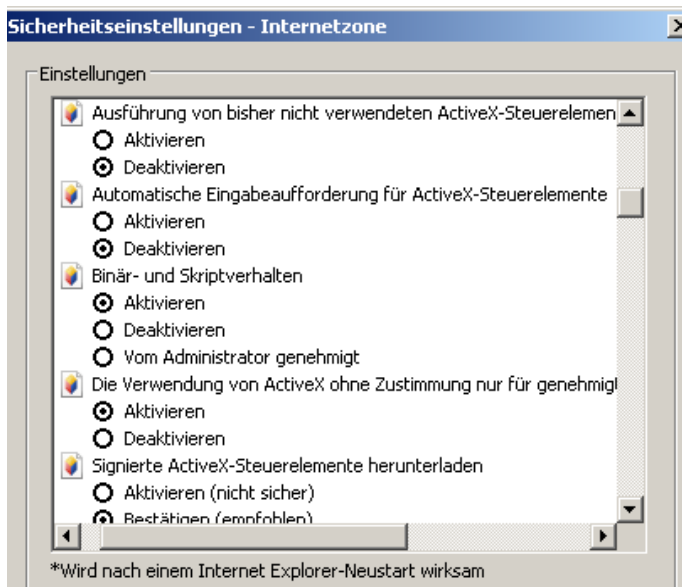
- Please check the last four options as follows:

- Press OK, then press OK again.

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- Upon choosing the link "Internet explorer 6,7,8, you will be asked if you want to install an ActiveX control element. This will take some time to complete.
- If successful, you will see this window and – if already connected – your camera images:

VERY IMPORTANT:

- If you experience a freeze or crash of your browser, please control upon restart if all Active X control elements are activated according to this manual.
- If all Active X elements are adjusted correctly, please check, if there is an internet security, antivirus, or firewall application currently in operation.
- If yes, please deactivate the application and try again. If the access works, please check the preferences of the internet security, antivirus, or firewall application to see if you can work around this problem. Please contact the manufacturer of the software to get further assistance.
- If you are experiencing just a white image with two black frames on the left and right side, the drivers of the graphics card of your computer are probably outdated. Please update the drivers, by contacting the manufacturer of your graphics card. Most of the time, you can download current driver versions on the websites of most graphics card companies.

ON ACCESSING YOUR LE800 D1 VIA DVR REMOTE DESKTOP APP:

- Start the application
- Upon start screen you'll see the following window:
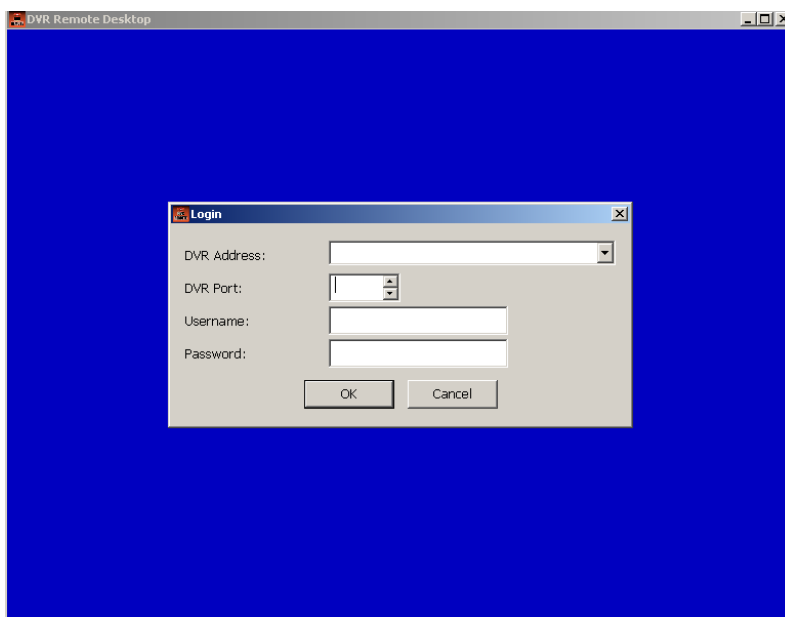
- Please enter DVR Address (IP-Address or URL), Port, username and password and klick OK.
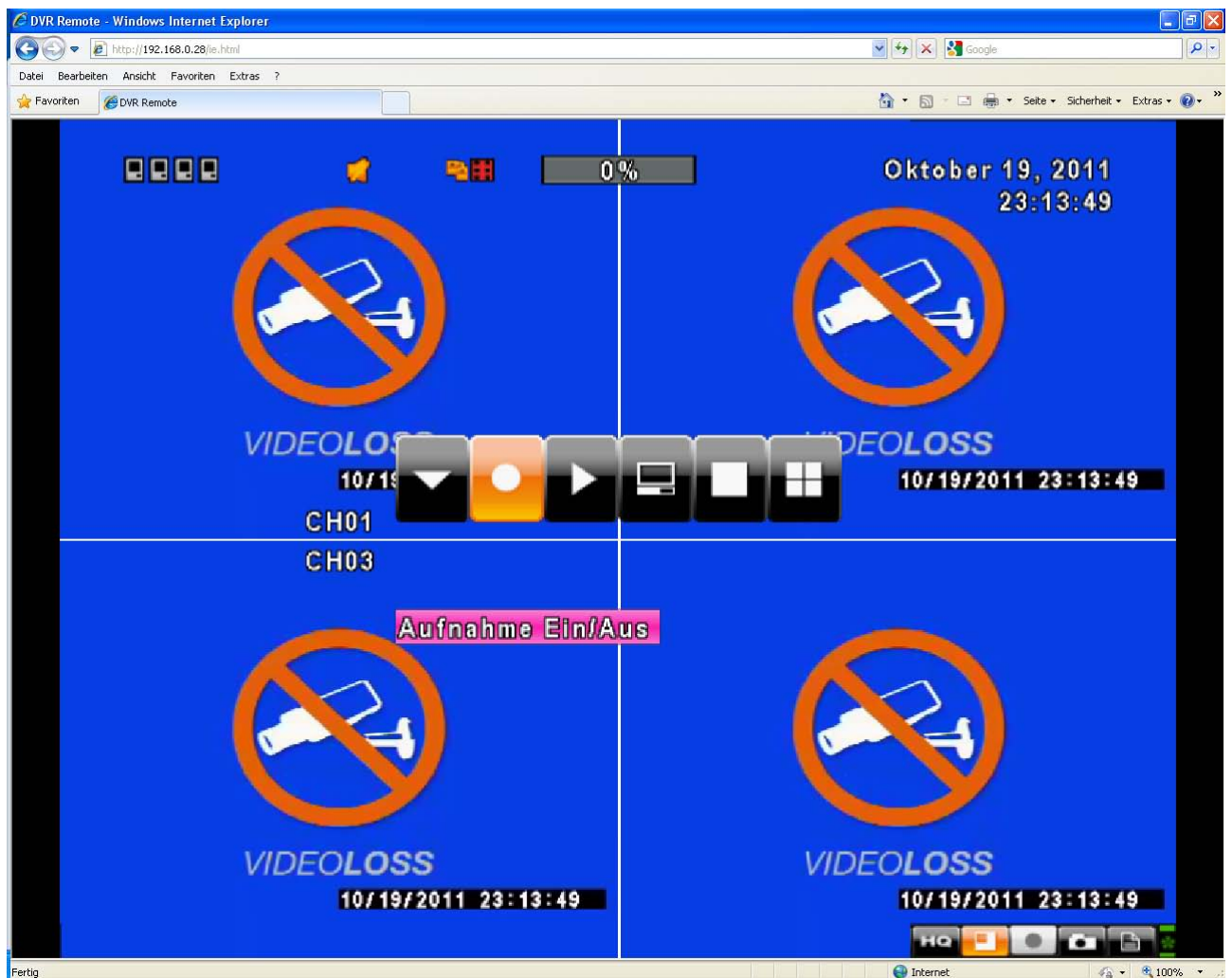- The main live window appears:
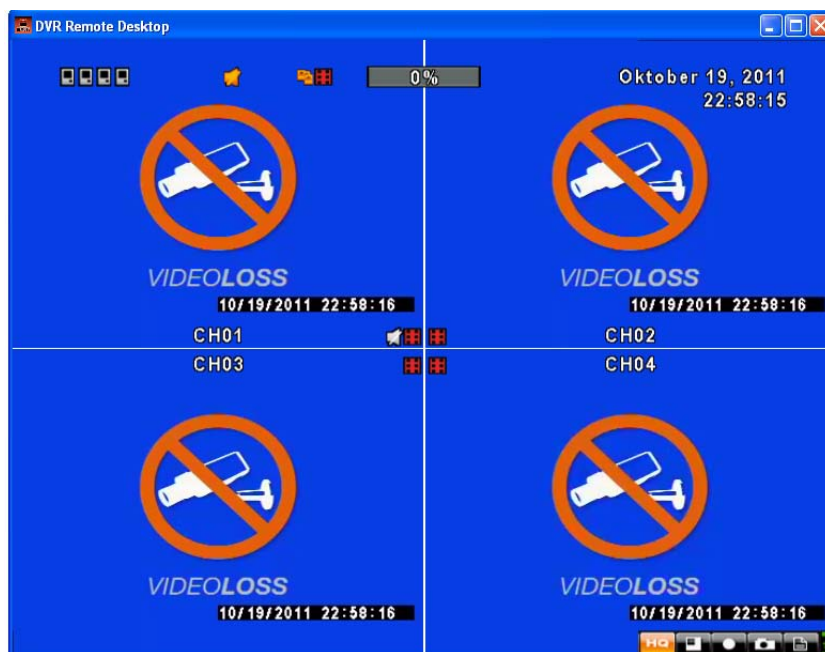
8.2 How to Operate the Network User Interface

You will notice, that the user interface is similar to the user interface you already know from direct access.

8.2.1 Manual Recording via Network Access

Klick on the record symbol to choose between three options: manual recording on/off, lokal recording save as ..., and snapshot. With the first option you can start or stop manual recording on the harddisc of your recorder, with local recording you can record onto the harddisc of your PC, and with the 3. Option, you can do a screenshot of the current image.

8.2.2 Lock System

Klick on the Lock Symbol to log out. You will be asked for username and password if you want to enter menu items again.

8.2.3 Network Backup
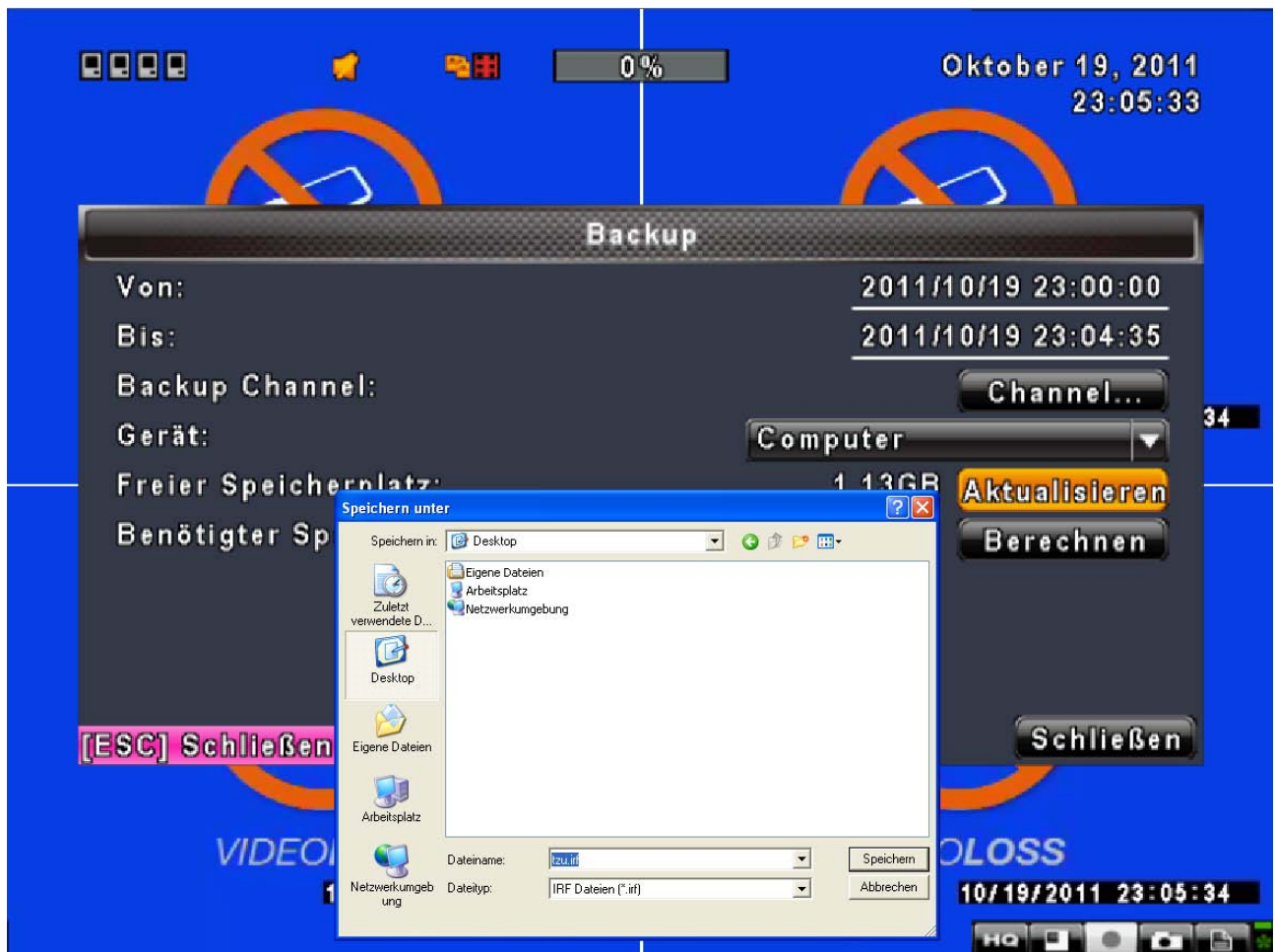
If you would like to do a data backup on your remote PC, please choose PC as a backup device. You will then be asked to choose a folder or path, where you would like to store the backed up data. If there is no option to choose „PC" from, please close your internet explorer. Click right on the Internet Explorer symbol and select „execute as an administrator". Then try again.

IMPORTANT: All other menu items are identical to the direct access user interface.

Chapter 9 Mobile Phone Access

You can remotely monitor all channels of the DVR through your mobile device. The required mobile application is from the DVR manufacturer and it supports mobile OS for both Windows mobile 5.0 above and Symbian.

Please confirm that the network function of the DVR has been activated before mobile connection: Main menu → Network Setup → HTTP Setup → Check the "Enable HTTP Server".

9.1 Mobile Application, Installation and Operation for Symbian System

Mobile Device: Nokia, SonyEricsson…etc.

System requirement:
GPRS/ 3G must be provided from your telecom service.
Mobile device that supports GPRS/ 3G protocol and Java cldc1.0/midp 2.0 environment.

(With the Apple IPhone please open the following link with Safari:
http://IhreDVRAdresse.dyndns.org/Mobile.html)

9.1.1 Mobile Application Installation
Please follow the steps shown below to perform the mobile device surveillance function.

Step 1: You need to install the mobile application called "**DVRH264.jar**" into your mobile device. The application can be downloaded from the CD that packed with DVR through Bluetooth or USB cable.

Step 2: Install the application software "**DVRH264.jar**" in your mobile device. It might be installed automatically after downloading; otherwise, select it from the downloading file for installation.
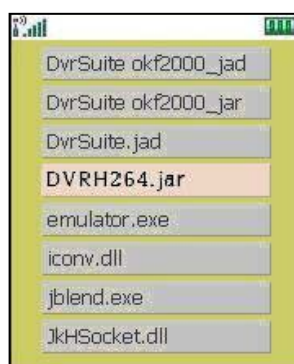
9.1.2 Mobile Application Operation

After the installation, enter Program Files menu in your mobile device to run a file called "**H264 MIDlet**".

Select "Menu" at the right lower corner of your mobile screen, 4 commands, **Login Add Modify** and **Delete**, will show up.

9.1.2.1 Add New Login DVR

To log into the DVR, you need to enter the logging-in DVR information. Find "**Add**" under the "Menu" then enter logging-in DVR's IP address, Port number, account name and password. Press "**Add**" to save this information after entering.

9.1.2.2 Logging onto the DVR

Use the Login command to log onto a DVR and monitor live images. If multiple DVRs have been added to the mobile application, they will be listed by name, you can select one to log onto.

A confirmation message might show up for a network charge before connection. The fee rate will depend on the telecom company and package fee that you go with.
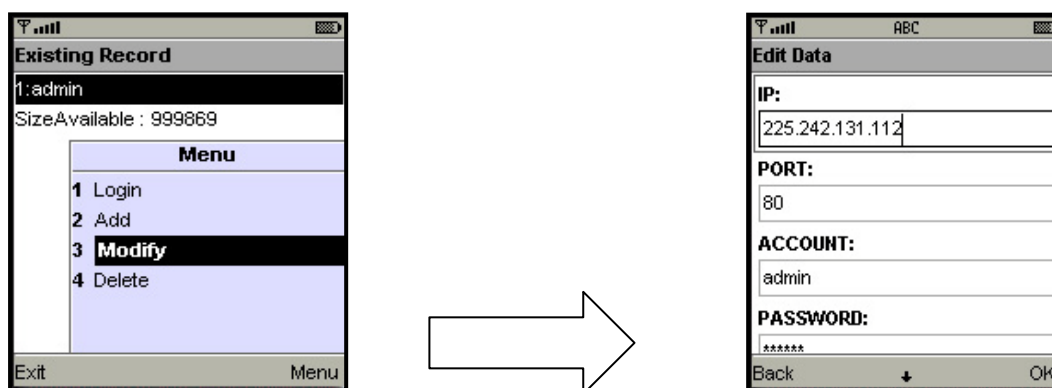
Network connectivity will take some time. It will be affected by networking environment and bandwidth flow. Live image will show up after a successful connection.
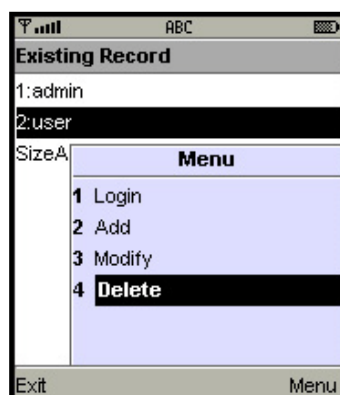
9.1.2.3 Modify the Login Information of the DVR

You can use "**Modify**" command to change the login information of the DVR. The dialogue is identical to that of "Add" command.

9.1.2.4 Delete the Login Information of the DVR

"**Delete**" command can be used to remove the DVR information when it is no longer useful. Select the DVR on the name list, then choose "**Delete**".

9.1.3 Live Monitoring Operation

This paragraph describes some operation under the LIVE monitoring mode in your mobile device.

9.1.3.1 Scroll the Image

You can use the keypad on your mobile device to scroll the image when it is oversized.

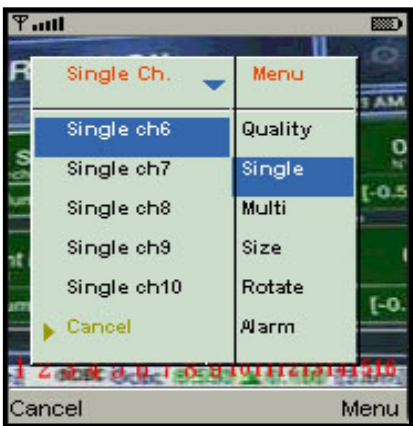| Key	Action
2	Scroll Up
4	Scroll Left
6	Scroll Right
8	Scroll Down

9.1.3.2 Image Quality Setup

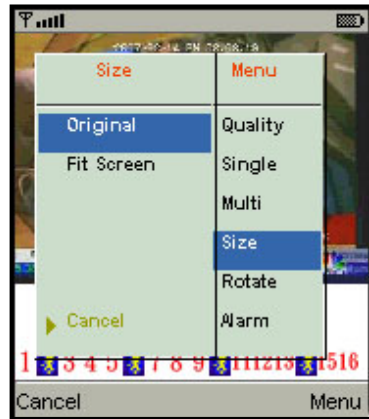Select "Quality" under the "Menu". There will be 5 levels for you to choose: Low, Normal, Middle, High and Highest.

9.1.3.3 Channel Display

Select "**Single**" under the "Menu", all channels will be listed for you to choose from.

PS. *Live* images can not be displayed in your mobile when the recoding is set to off in local DVR.

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9.1.3.4 Size of Image

The screen size of different mobile device can be different. You can select "**Size**" under the "Menu" to choose from "**Original**" or "**Fit Screen"** to resize the display image.

| Item	Description
Original	The image will be shown in original size.
Fit Screen	The image will be shown to fit the screen.

9.1.3.5 Rotate the image

Live image can be displayed by normal image or rotate to 90 degrees. Select "**Rotate**" under the "Menu" for this operation.

9.1.3.6 Alarm

This application will not only allow user to remotely monitor through mobile device but receive the alarm that has been triggered by events such as Motion Detected, Sensor Triggered and Vloss.

Select the "Alarm" under the "Menu" to switch this function on or off.

Item	Description
	Motion detected
	Sensor triggered
	Video loss

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9.2 **Mobile Application Installation and Operation for Windows Mobile System**

There are two kinds of applications for Window Mobile OS: JPEG compression and H.264 compression. The one for H.264 compression can transfer both audio and video signal to your mobile device.

System Requirement:

Mobile device OS : Windows mobile system 5.0 and above.

Mobile device need to support internet: GPRS / 3G / Wifi… etc.

9.2.1 Mobile Application Installation

Please follow the steps shown below to perform the mobile device surveillance function on your mobile device (mobile phone, PDA   ...etc).

Step 1: The mobile application called **"Jrviewer.CAB"** and "**H264Pocket.CAB**" need to be installed in your mobile device. The application can be downloaded directly from the manufacturer's website to your mobile or; alternatively, it can be transferred to your mobile device from the CD that is packed with DVR through Bluetooth or USB cable or via Internet http://www.lupus-electronics.de/file/800/.

Step 2: Install the application software **"Jrviewer.CAB"** and "**H264Pocket.CAB**" in your mobile device, two folders named "**Jrviewer**" and "**H264Pocket**" will be created. It might be installed automatically after downloading; otherwise, select it from the downloading file for installation.
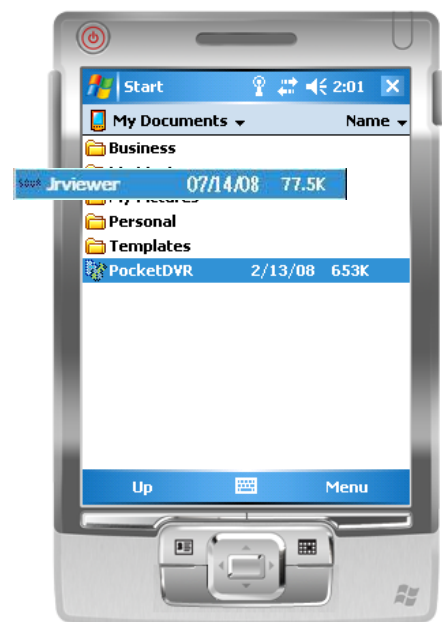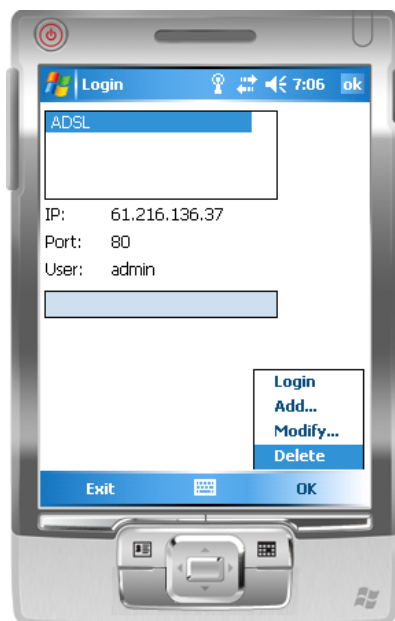
9.2.2 Mobile Application Operation

After the installation, enter the Program Files menu in your mobile device to run files named "**Jrviewer**" and "**H264Pocket**".

This application allows you to remotely logon and monitor the DVR. Press "**OK**" to bring up the operation menu; see chart the below for further information.

Item	Function	Description
Add	Add login DVR	Enter DVR's name, IP address, Port, Account user, Password then press "**OK**"
Login	Logon DVR	·Choose the DVR that you'd like to logon , then press "**OK**" · **PS. _Live_ image can not be displayed in your mobile when the recoding is off**. ·PS. **Network connectivity will be affected by networking environment and bandwidth flow. The fee rate will depend on the telecom company and package fee you go with.**
Modify	Modify Login DVR	Choose DVR, press "**Modify**", and press"**OK**" to save change.
Delete	Delete Login DVR	Choose DVR and press"**Delete**" to delete the DVR info.

The operation of **Jrviewer**   The operation of **H264Pocket**

9.2.3 Operation under the LIVE monitoring

After successful logon to the DVR, press "View" to bring up operation menu. You can choose the channel, resize the image, choose the quality, and turn On/ Off the status bar, alarm, full screen display….etc

### 9.2.3.1 jrviewer Operation under the LIVE monitoring

Item	Function	Description
Channel 1~16	Display for CH 1~16	Choose from CH1~16 to display
Screen	Size of image	Original：image size as original Stretch：stretch the size as full screen Fit: resize the image to fit the screen
Quality	Quality	Change the quality of image. Please note the better quality, the slower data transfer rate.
Status Bar	Status Bar	Graphical icons indicated below will be shown on the status bar if there is event such as motion detected, sensor triggered and video loss to be detected on any channel. You can also uncheck the "**Status Bar**" to inactivate this function. <table><tr><th>Icon</th><th>Description</th></tr><tr><td></td><td>Motion Detect</td></tr><tr><td></td><td>Sensor Trigger</td></tr><tr><td></td><td>V-Loss</td></tr></table>
Alarm	Alarm	Alarm through your mobile device can be triggered if there is

		event to be detected. You can also uncheck the "Alarm" under the "View" to inactivate this function.

9.2.3.2 Operation under the LIVE monitoring for H264 Pocket

Item	Function	Description
Channel 1~16	Display for CH 1~16	Choose from CH1~16 to display. CH1~4 can receive audio signal.
Status Bar	Status Bar	Graphical icons indicated below will be shown on the status bar if there is event such as motion detected, sensor triggered and video loss to be detected on any channel. You can also □ uncheck the "Status Bar" to inactivate this function.
Alarm	Alarm	Alarm through your mobile device can be triggered if there is event to be detected. You can also □ uncheck the "**Alarm**" under the "View" to inactivate this function.
Full Screen	Full screen display	☑ Check this function to choose one channel to display in full screen.

Within the Status Bar row:

Icon	Description
	Motion Detect
	Sensor Trigger
	V-Loss

9.3 Mobile acces via iPhone, HTC oder Android

Enter your mobile app market place (App Store, Android Market, etc.). Search for the App iWatch DVR and download it. It's free!

When installation has been completed, please open the app and klick top right to add a new device to your DVR list.

In the following window, please add all relevant information:

- Please enter a Name for the new recorder. You can enter any name you want. This has no relevance for the connection.

- Please enter an IP address (e.g. 123.456.789.0) or hostname (e.g. yourname.dyndns.org).

- Please enter a Port (default port is set to 80)

- Please enter a username (default is admin

- Please enter a password (default is 123456)

Klick „Save" to keep your changes. You'll now see your added recorder on the list. If you tap on it, a connection will be established. If you tap on „>", you can change your preferences.

The app opens with a single window that is set to channel one.

Here's how you control your app:

- Swipe left and right to switch to another channel
- Pinch your fingers to the middle to switch from one channel to 4-channel splitscreen mode.
- When in splitscreen mode, double tap on a channel to switch this channel to fullscreen.
- If you have a PTZ camera connected to your DVR and would like to control the camera, please switch the PTZ camera to full screen. Tap on the screen and tap on the PTZ camera icon. Swipe in the direction to which you want the camera to pan or tilt. Pinch out to zoom the camera in, pinch in to zoom the camera out.

APPENDIX

1. System requirements for Client-Software

iCMS, iFileplayer, IRFtoAVI Converter:

CPU: Intel Pentium 4 or higher.
Operating system: Microsoft Windows Vista, Windows XP, Windows 2003 Server.
RAM: 512MB or higher.
Graphics Card: (See below).

DVR Remote Desktop:

Windows PC:
CPU: Intel Pentium 4 or higher.
Operating system: Microsoft Windows Vista, Windows XP, Windows 2003 Server.
RAM: 512MB or higher.
Graphics Card: (See below).

Apple Mac:
CPU: Intel 2 Duo or higher.
Operating system: MacOS X 10.6 or higher
RAM: 512MB or higher (1GB recommended)
Graphics Card: (See below).

Brand	Chipset
3DLabs	Wildcat VP
	Wildcat Realizm
ATI	Radeon R200 (8500-9250)
	Radeon R300 (9500-9800, X300-X600)
	Radeon R420 (X700-X850)
	Radeon R520 (X1300-X1950)
	Radeon R600 (HD 2400-HD 2900)、Radeon R600 (HD 3xxx)
	Radeon R700 (HD 4xxx)
	Radeon R8xx
Intel	Intel GMA 900, 950, 3000, 3100
	Intel GMA X3000
	Intel GMA X3100, X3500
	Intel GMA 500
Matrox	Parhelia series
NVIDIA	GeForce 3 series
	GeForce 4 Ti/Go series
	GeForce FX series
	GeForce 6 series、GeForce 7 series、GeForce 8 series、GeForce 9 Series
	GeForce 200 Series
	Quadro FX 1700
	GeForce 300 Series

	GT300 Series
S3 Graphics	DeltaChrome
	GammaChrome
	Chrome S2x series
	Chrome 400 Series
SiS	Xabre-Series
	Mirage 2
	Mirage 3、Mirage 3+
	Mirage 4
XGI	Volari V3 series (except V3XT)
	Volari V3XT
	Volari V5 series
	Volari V8 series
	Volari 8300
	Volari XP10

NOTE: The listed Graphics Cards are tested and work with the LUPUSTEC – LE800 D1. This does not mean that other Graphics Cards will not work.

2. Compatible USB-Devices

Adata C801 2G/ 4G/ 8G

Apacer 2G (black)

KINGMAX DataTraveler 4G

KINGSTON DTI 512M (white)

KINGSTON DTI 4G (white)

PNY 4G

Pqi U230 512M (white)

Pqi 8G (white)

PRETEC 4G (silver)

SanDisk U3 1G (red)

Slicon Power 4G

Sony 2G/ 4G

Sony MicroVault4G (black)

Transcend V20 2G

Transcend V10 1G/ 4G

Transcend V30 16G

TOSHIBA 4G (U3)

NOTE: The listed USB-Devices are tested and work with the LUPUSTEC – LE800 D1. This does not mean that other USB Devices will not work.

Chapter 10 Internet Access

Requirements:

    a.   Router and Recorder have to be connected correctly

    b.   Recorder and camera are already accessible over the internal network connection

    c.   Networkaddress-configuration is made via DHCP (if not, please change the settings within your router to DHCP)

If you want to connect to see live-images or recordings on your recorder, you first have to allow this access to your network from outside. This configuration has to be made within the router-system (DSL).

1. Open the configuration panel of your router
   Often it is the internal ip-adress: e.g. http://192.168.2.1 which has to be entered in your web-browser.
2. Go to the menu-point „network".
3. Go to "Port forwarding" or "NAT"
4. Establish a new Port Forwarding (TCP/IP, Webserver). To do that, you have to enter the port (Standard-Port is 80, but you can also use other free ports like 888) as well as the IP-Adress of your Recorder. The IP-Adress as well as the port of your Recorder is to be found within the Network and/or Status Items of your recorder menu.
5. Then, Please go to http://www.no-ip.com and sign up a free account :
6. Click "create account"
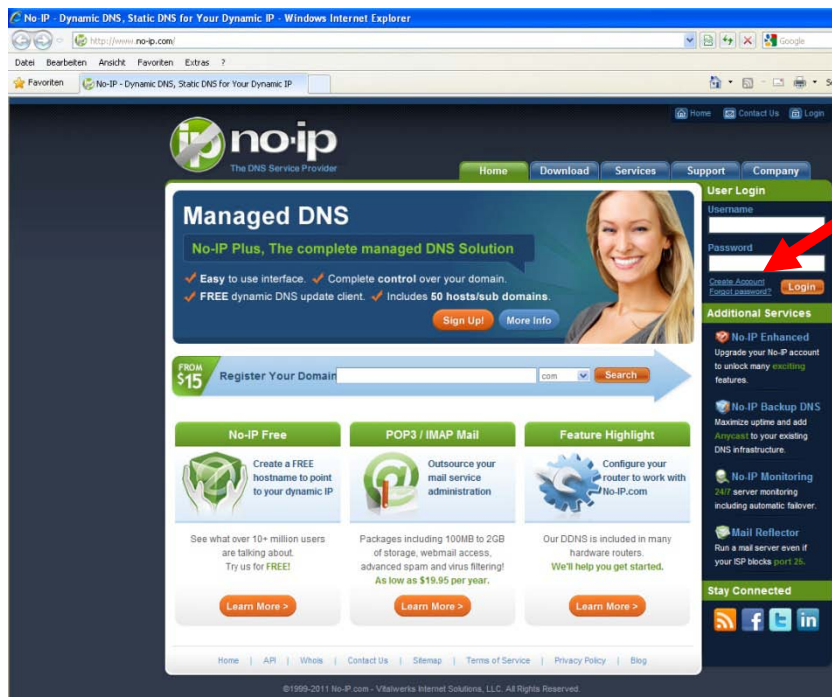
ENGLISH

7. Fill out the form and confirm your signup:

8. You will receive a confirmation email. Please click on the link in the email to confirm your account. You will then see this screen
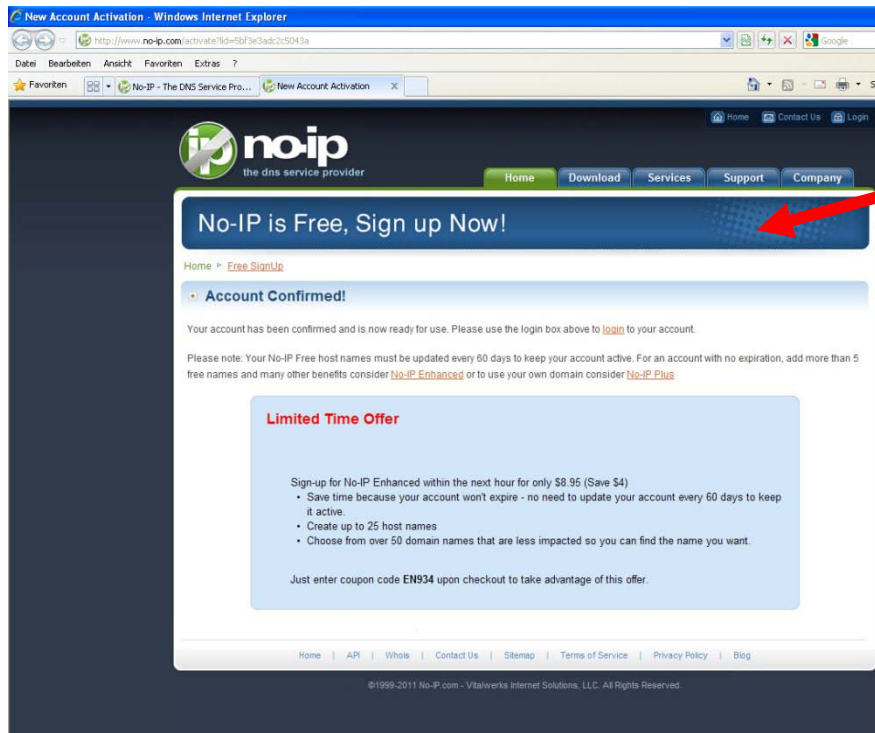
9. Please login with your email-address and password.
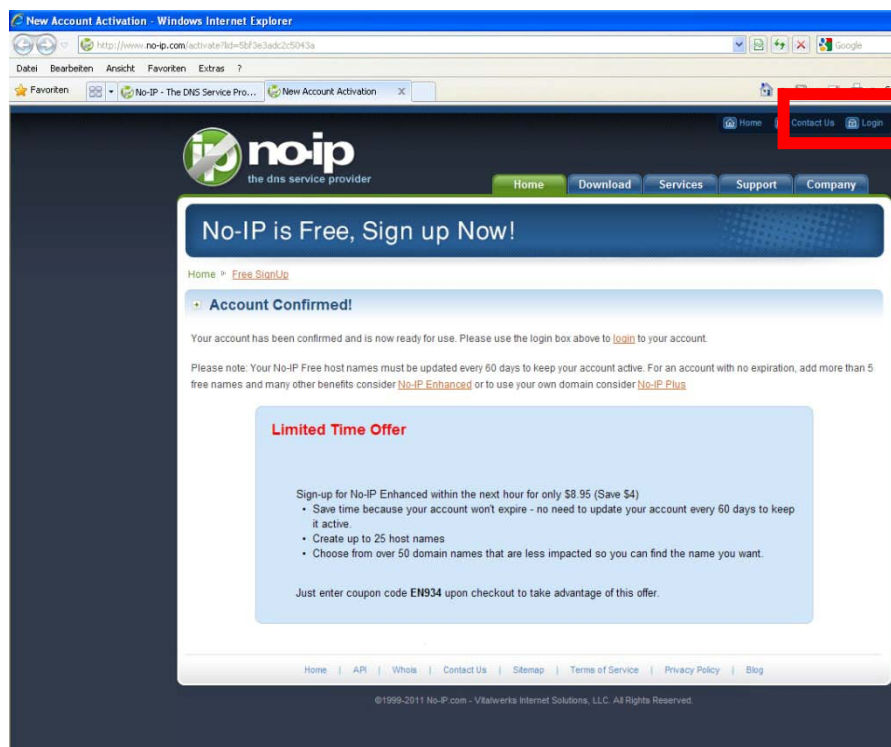
10. Click „Add a Host" and choose a name in „Hostname". This name will be part of your Recorder-Webaddress. Then choose a domain name. Your hostname should no like like e.g. myname.zapto.org
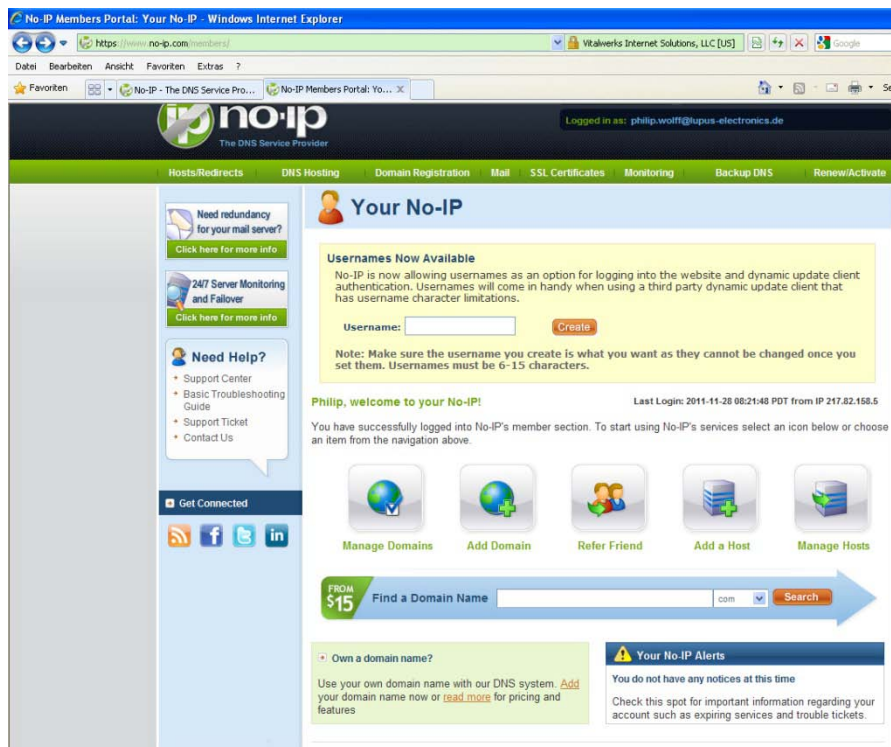
11. When your hostname is complete, please go into the network/DDNS-menu of your router and enter your new hostname, username and password that you got from no-ip.com.
12. Your recorder should now be accessible from outside.

Chapter 11 Technical Specifications

VIDEO	VIDEO SYSTEM	NTSC/ PAL choosable
	INPUTS	4-CHANNEL BNC
	LOOP	NO
	VIDEO OUTPUT	1-CHANNEL BNC
	SPOT OUTPUT	1- CHANNEL BNC
	VGA OUTPUT	1- CHANNEL VGA
AUDIO	INPUT	1- CHANNEL RCA
	OUTPUT	1- CHANNEL RCA
TERMINAL	SENSOR	4 INPUTS/ 1 OUTPUT
	RS-485 INTERFACE	PTZ-CONTROL SUPPORTED
CONTROL	MAUS	USB MOUSE SUPPORTED
	IR CONTROLLER	YES
STORAGE	DEVICE	SUPPORTS 1x SATA HDD
	DVD WRITER	NEIN
DISPLAY	DISPLAY	QUAD- AND FULLSCREEN
	ZOOM	2X
	OSD	GRAPHICAL OSD
RECORDING	COMPRESSION	H.264
	RESOLUTIONS AVAILABLE	720x480, 720x240, 360x240 (NTSC) 720x576, 720x288, 360x288 (PAL)
	FRAME RATE — NTSC	120, 120, 120FPS
	FRAME RATE — PAL	100, 100, 100FPS
	QUALITY	HIGHEST/ HIGH/NORMAL/LOW/LOWEST
	RECORDING OPTIONS	MANUAL, TIMER, EVENT (MOTION DETECTION, SENSOR, VIDEO LOSS)
	MOTION DETECT	MOTION DETECTION ADJUSTABLE SENSITIVITY: 5 LEVELS
	PRE-ALARM	16 MB
	POST-ALARM	16 MB
	WASSERZEICHEN	NO
PLAYBACK	SUCH-MODI	TIME; EVENT
	GESCHWINDIGKEIT	NORMAL, REW&FF[2x/4x/8x/16x/32x/64x], FROM FRAME TO FRAME, PAUSE
	INTERN	HDD

	EXTERN	NO

NETZWERK	COMPRESSION	H.264
	INTERFACE	Explorer, Remote Program, iCMS
	PROTOKOLS	TCP/ IP, SMTP, HTTP, DHCP, DDNS, PPPoE
BACKUP	INTERNAL	NO
	EXTERNAL	USB 2.0 (1 Port am Front Panel) : USB Flash Driver
	NETWORK	YES
	BACKUP FILE	H.264 KOMPRESSION
MONITORING	SOFTWARE GUARD	
RECOVERY	AUTO RECOVERY	
FIRMWARE UPGRADE	2 x USB 2.0 Port (1 x FRONT, 1 x BACKSIDE)	
MULTI-LANGUAGE	English/ Traditional Chinese/ Simplified Chines/ Italian/ Japanese/ Portuguese/ Spanish/ Hungarian/ Greek/ Persian/ Arabic/ Hebrew/ German/ French/ Russian/ Korean/ Polish	
DIMENSIONS	188mm (B) x 54mm (H) x209mm (L)	
POWER	DC 12V	

ENGLISH

LUPUS-Electronics® GmbH

Lise-Meitner-Str.20, D-76829 Landau

Tel. +49 (0) 6341 93 55 3 0 Fax. +49 (0) 6341 93 55 3 20

E-Mail: info@Lupus-Electronics.de

www.Lupus-Electronics.de