



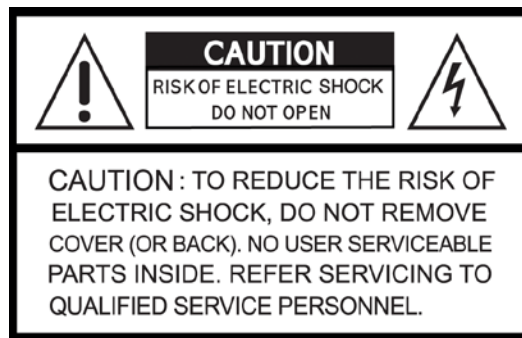
LUPUSTEC®

Digital Video Recording System

LE800+



User Manual



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.



Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

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.

Chapter 1 FEATURES

- Two USB ports (for mouse usage and backup).
- Dual streaming enhances the speed of network transmission
- Built-in VGA output up to 1024x768 resolution
- Individual setup of resolution, frame rate and video quality for each channel
- Still image snapshot
- AVI converter with time stamp
- H.264 compression ideal for saving HDD space
- Real time live display
- Live display, record, backup, playback and network access simultaneously
- Picture-in-picture monitoring and 2X to 8X digital zoom display
- Control Methods: front panel, USB mouse, IR remote controller, client viewer
- Intuitive GUI for easy configuration and menu driven operation
- 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 PACKING DETAIL



1. DVR



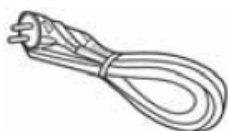
2. Client Viewer Software CD



3. User Manual



4. Remote Controller



5. Power Cord



6. Power Adapter



7. Battery



8. SATA Cord



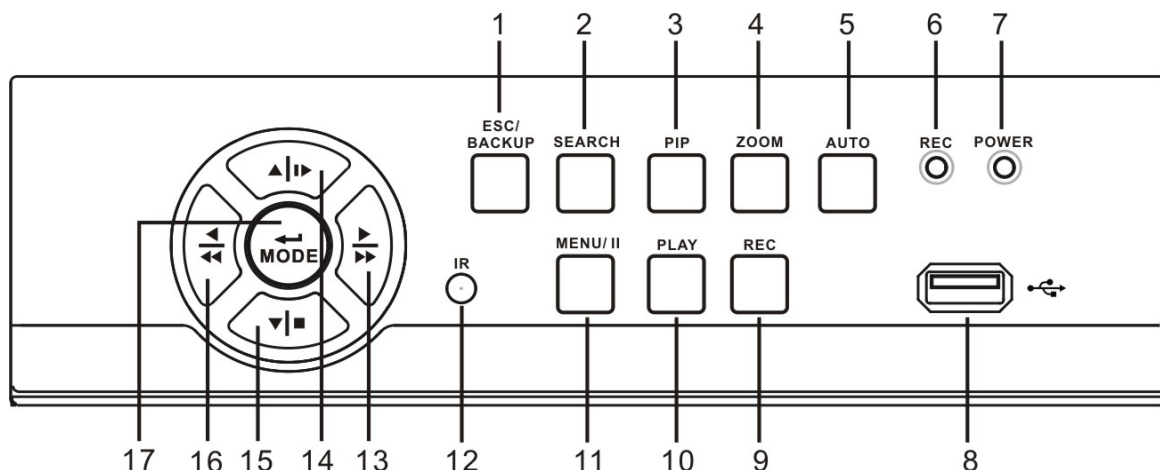
9. HDD Screws

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| 2. Client Viewer Software CD |
| 3. User Manual |
| 4. Remote Controller |
| 5. Power Cord |
| 6. Power Adapter |
| 7. Battery |
| 8. SATA Cord |
| 9. HDD Screws |

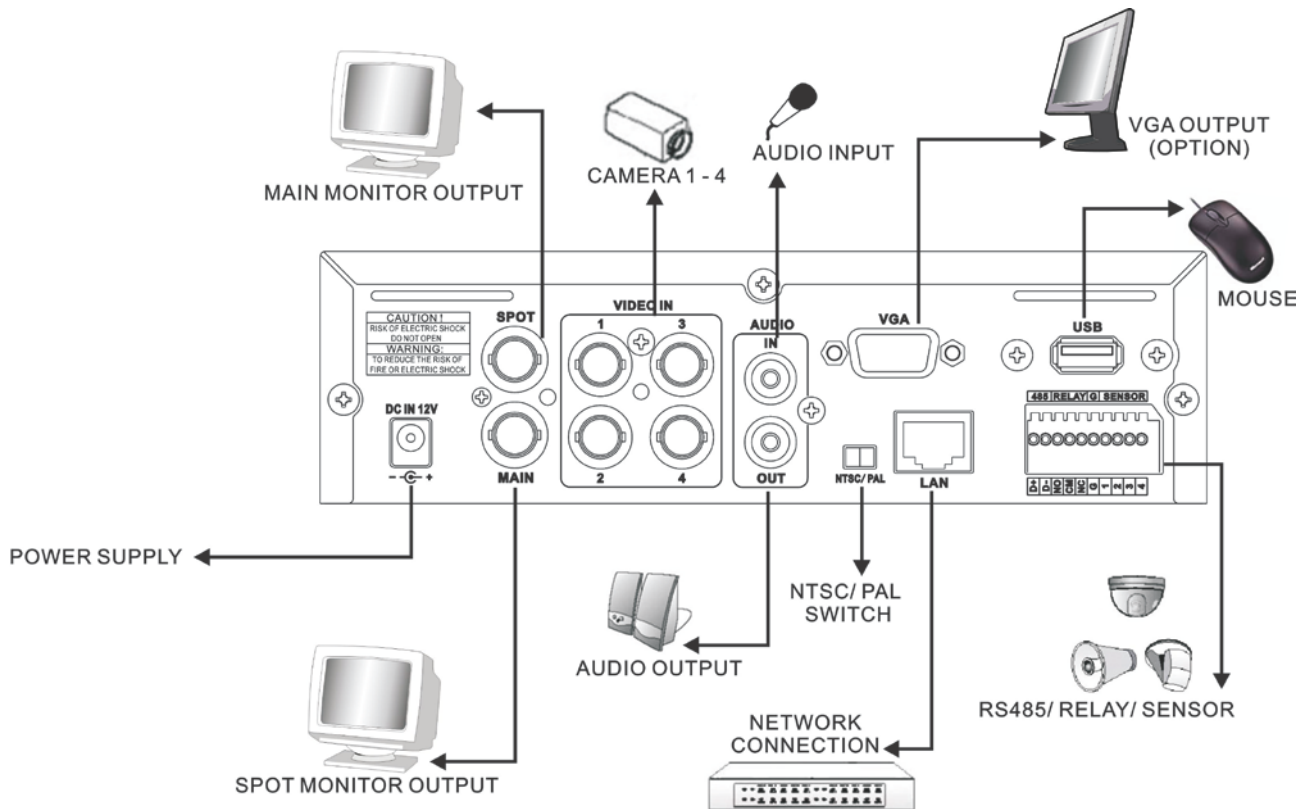
Chapter 3 LOCATION AND CONTROL

3.1 Front Panel Controls



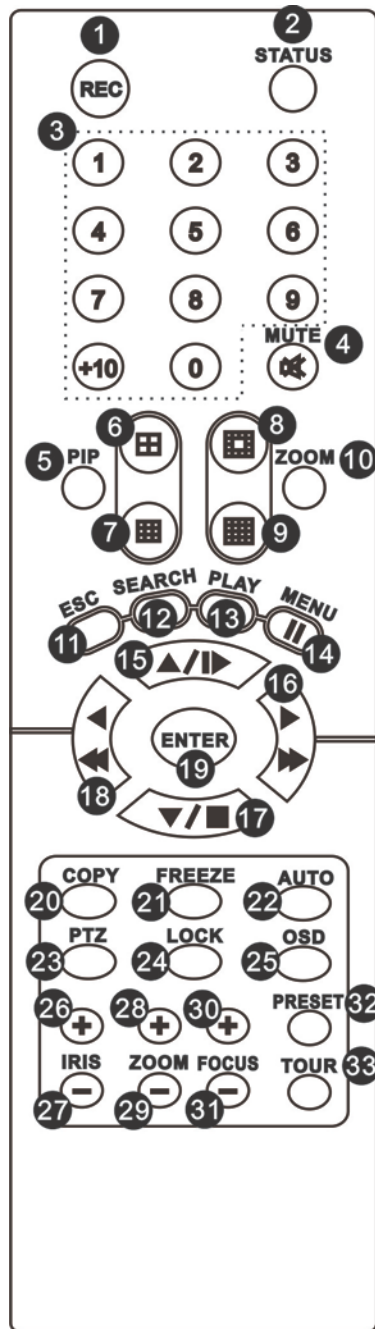
Item		Description
1	ESC/ BACKUP	Exit various functions and menu screen Enter backup selection menu
2	SEARCH	Enter search menu screen, use Up/ Down button to navigate Press ENTER to access selected item
3	PIP	Turn on picture-in-picture format, use Up/ Down button to navigate Press ENTER to access selected item
4	ZOOM	Enable/ Disable double screen size display. Press ENTER to switch channels.
5	AUTO	Enable auto mode, to skip channels Press MENU to disable auto mode
6	LED DISPLAY - REC	DVR Recording.
7	LED DISPLAY- POWER	DVR Power is on.
8	USB 2.0	The USB 2.0 port can be used to connect USB storage device.
9	REC	Start/ Stop recording.
10	PLAY	Start playing back.
11	MENU/ PAUSE (MENU/ II)	Enter menu mode, use Up/ Down button to navigate menu screen. Press to pause playback
12	IR SENSOR	Input sensor for the remote control.
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 BUTTON/ STOP (▼/■)	Down Directional Button. 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 Real 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
NTSC / PAL SWITCH	Switch between NTSC and PAL format.
LAN	Network port.
VGA	Output port for the VGA monitor (option).
EXTERNAL I/O	EXTERNAL I/O port (see below for pin definition) <div data-bbox="512 1525 908 1697"> <p>Pin definition diagram for the EXTERNAL I/O port:</p> <ul style="list-style-type: none"> Pins 1-4: 485 Pins 5-6: Relay Pins 7-8: GND Pins 9-10: Alarm Pins 11-12: A Pins 13-14: B Pins 15-16: COM Pins 17-18: NO Pins 19-20: NC </div>
AUDIO OUT	RCA output port for an audio signal
SPOT MONITOR	BNC port to display full screen image of all installed cameras in sequence.
DC 12V	Socket for a DC 12V input.
USB	USB Mouse

3.3 Remote Controller

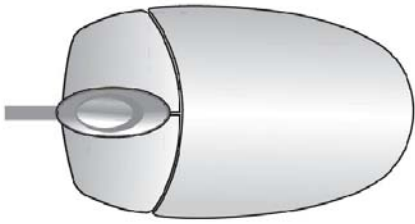


Remote Controller – Button Definition	
○,1 REC	Start/ Stop Recording.
○,2 STATUS	Display Status.
○,3 CAMERA BUTTONS	Camera Select / Numeric Button. Press [+10] button to select channels.
○,4 MUTE	Switch to 1-CH Audio Out/ Turn Off Live Audio.

○,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 FREEZE 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 Control













Live Mode






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















Mouse – Menu Mode

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

Graphic Icons

	<p>Resting the cursor on this icon will bring up the four (Main Menu/ Search/ Backup/ PTZ) menu icons.</p> <ul style="list-style-type: none">  MAIN MENU.  SEARCH SETUP.  BACKUP.  PTZ CONTROL.
	Turn On/Off recording.
	PLAYBACK
	<p>Resting the cursor on this icon will bring up five (PAUSE/ PIP/ ZOOM/ AUTO SEQ/ LOCK) display icons.</p> <ul style="list-style-type: none">  PAUSE, to pause LIVE image  PIP, picture in picture









	 ZOOM, zoom in / out the screen size  AUTO-sequence  LOCK, activate the key lock.
	Full screen display, multiple clicking to switch channels
	Quad display.

GUI Hints and Tips	
	Recording is on
	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
	FREZZE is on, screen is frozen
	LOCK is on
	PTZ control is on
	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%)
	Current time which is used when providing the conversion of AVI files is shown on the bottom lower right of each DVR screen.










3.4.1 Network Control

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




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






2.3 Playback Mode

Playback – Quick Function Icon	
	Press 「◀◀ / ◀」 button to Fast Rewind Speed : 2x, 4x, 8x, 16x, 32x, 64x
	Press 「▶▶ / ▶」 button to Fast Forward Speed : 2x, 4x, 8x, 16x, 32x, 64x
	Press 「PLAY」 / 「 」 button to Play/ Pause Playback
	「▲ / SLOW」 slow playback Speed : 1/2x, 1/4x, 1/8x, 1/16x
	「▼ / ■」 stop playback Speed : 1/2x, 1/4x, 1/8x, 1/16x
	Playback channel by channel with snap shot display
	Full screen display
	Quad display
	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 mouse.

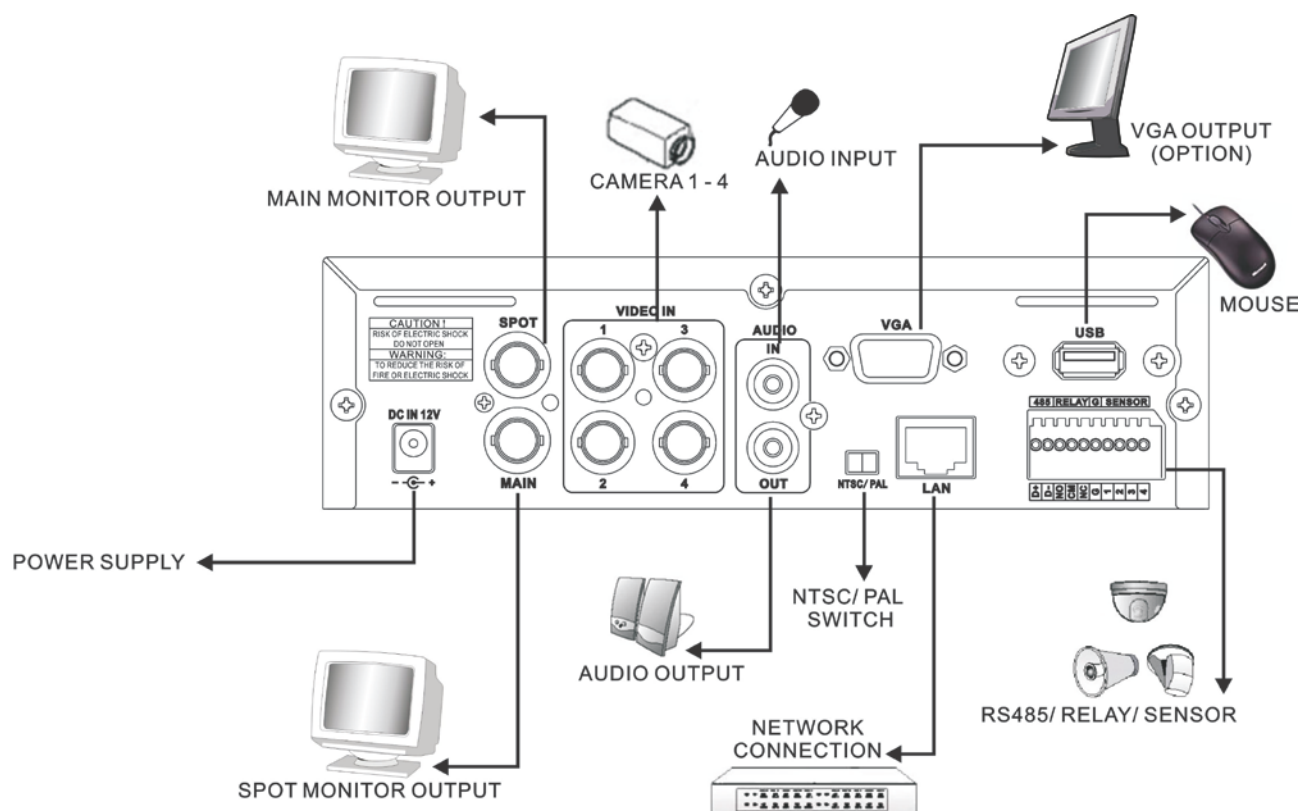
PTZ – Remote Controller Control	
▲ / SLOW	Move PTZ up.
▼ / ■	Move PTZ down.
◀◀ / ◀	Move PTZ to the left.
▶▶ / ▶	Move PTZ to the right.
ZOOM +	PTZ zoom-in.
ZOOM -	PTZ zoom-out.
FOCUS +	PTZ focus-in.
FOCUS -	PTZ focus-out.
IRIS +	PTZ iris-open.
IRIS -	PTZ iris-close.
TOUR	Activate PTZ pre-set tour.
PRESET + NUMBER	To save a preset location Press PRESET and a number key. DVR will save the current location.
PLAY + NUMBER	To go to a preset location Press PLAY and a number key. DVR will move to the preset location.
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	
	
	Exit PTZ Mode and back to the LIVE mode
	Preset number N. (1~64)
	Go to preset number N.
	Set current PTZ location at preset number N.

	[TOUR] icon, click to activate preset tour
	Same as [PIP]. Set current PTZ location as the starting point of the line-scan.
	Same as [FREEZE]. Activate line-scan.
	Same as [ZOOM]. Set current PTZ location as the ending point of the line-scan.
	To move PTZ in 360°
	PTZ zoom in or PTZ zoom out
	PTZ focus in or PTZ focus out.
	PTZ IRIS open or PTZ IRIS close.
Below functions needs support from specific PTZ. Please check the user manual of your PTZ manufacturer for detail.	
	AUX 1. [AUTO] + 「1」
	AUX 2. [AUTO] + 「2」
	AUX 3. [AUTO] + 「3」
	AUX 4. [AUTO] + 「4」
	AUX 5. [AUTO] + 「5」
	AUX 6. [AUTO] + 「6」
	AUX 7. [AUTO] + 「7」
	AUX 8. [AUTO] + 「1」
	[Backup] icon, click to customized function.

Chapter 4 INSTALLATION

4.1 System Configuration



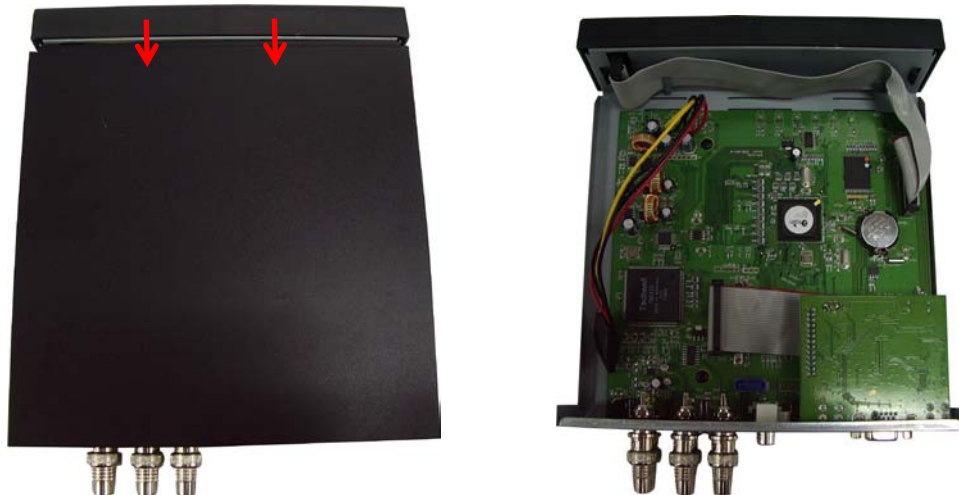
4.2 Hard Disk Installation

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)

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



(PIC 4)

4.2.1 Switch display resolution

Step 1: Loose the three screws on the backside of the recorder as shown (Image 1).



Bild 1

Step 2: Remove the cover by pulling it backwards (Image 2).

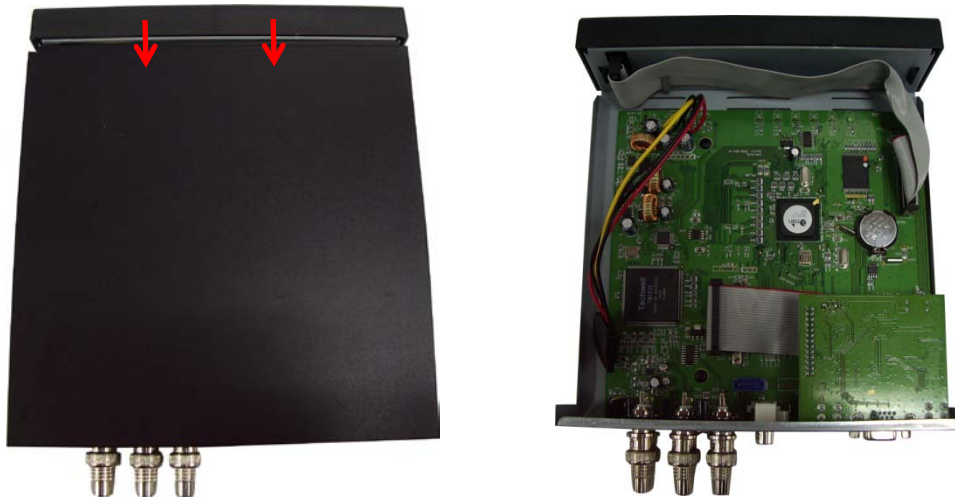
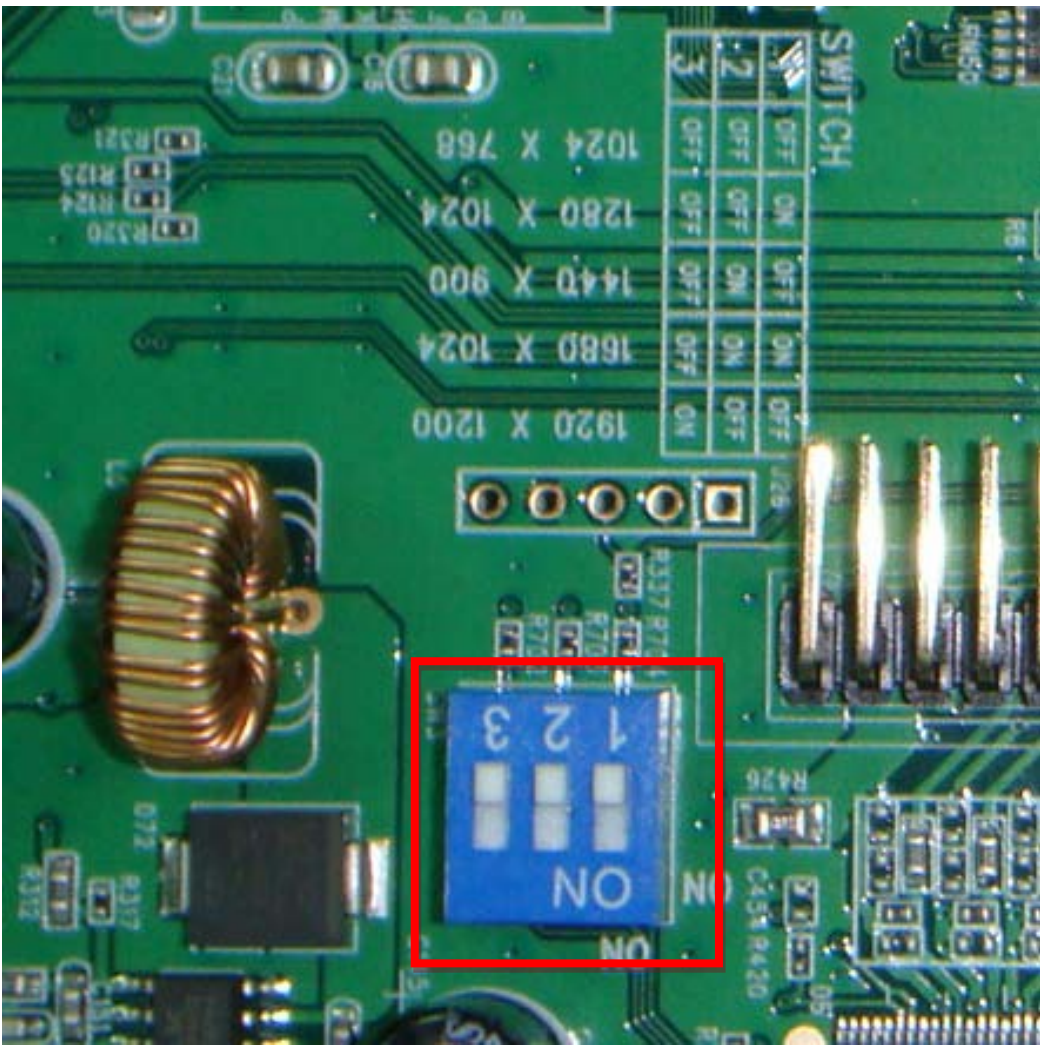


Bild 2

Step 3: Look for the switch shown in the image below.



The recorder comes in factory default settings with all switches set to OFF-position as shown above for a 1024x768 standard resolution. If you want to change the resolution please set the switches as follows:

	1024x768	1280x1024	1440x900	1680x1024	1920x1200
1	OFF	ON	OFF	ON	OFF
2	OFF	OFF	ON	ON	OFF
3	OFF	OFF	OFF	OFF	ON

Chapter 5 BASIC OPERATION and MENU SETUP

5.1 Main Menu Setup



To enter the main menu and setup the DVR, please log-in account and enter user password. The default password of the administrator is “123456”. Please refer to “Account Setup” for related setup of other log-in users.

Main Menu – Mouse Control		
		Switch between capital and small letters.
		Switch between numbers and letters.
		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 back to LIVE mode
ESC	Back to Upper level of the menu
ENTER	Enter the menu, or display virtual keyboard

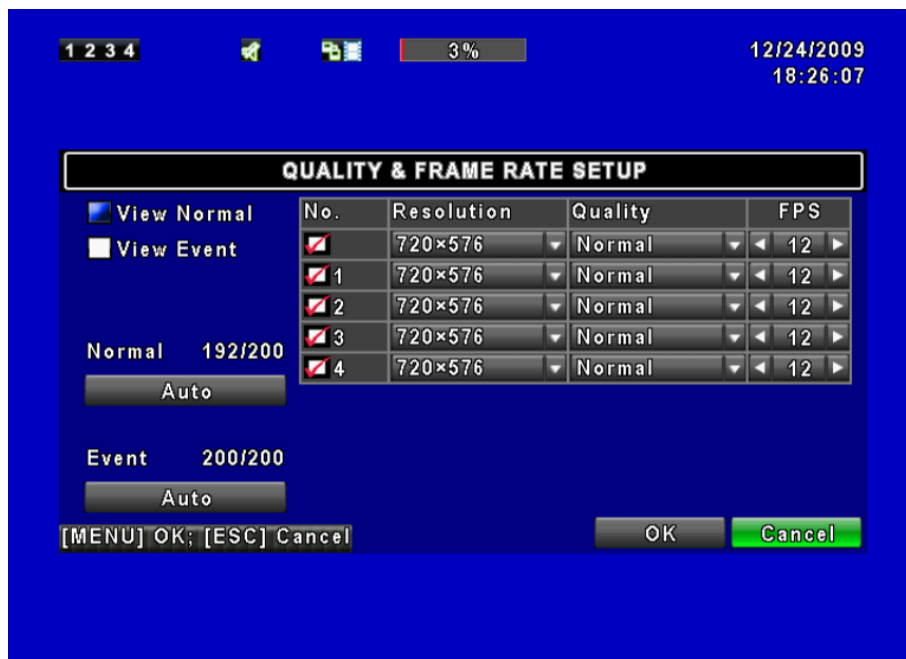
5.2 Record Setup



ENGLISH

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, and continue to record.
OSD Position X	Set time stamp of OSD position X
OSD Position Y	Set time stamp of OSD position Y
OSD Position Setup	OSD position time stamp setup
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 & Frame Rate Setup



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 (1~30).
Auto	The maximum recording frames available by the average distribution of each channel.

5.3 Event Setup



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

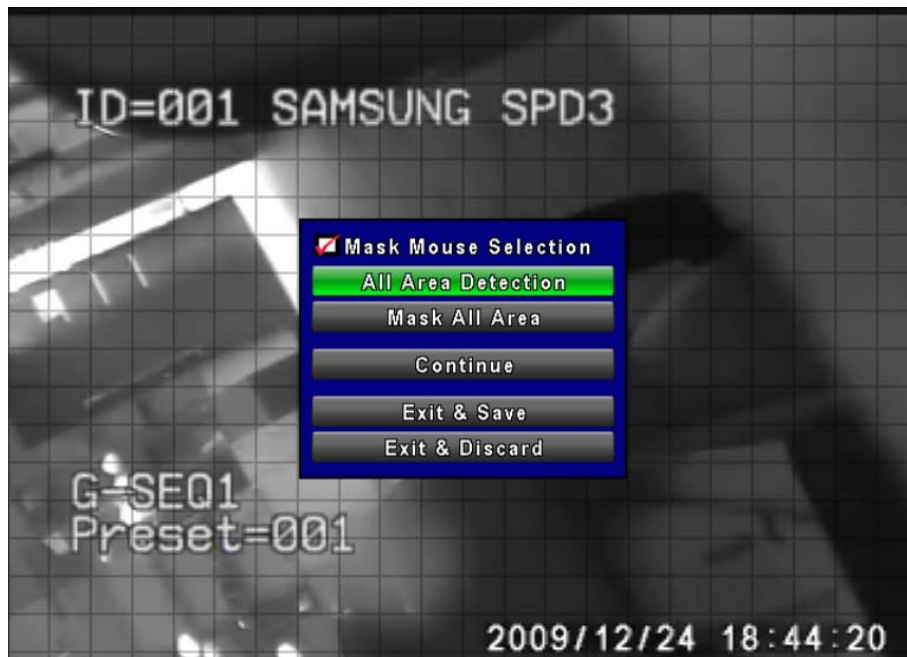
5.3.1 Motion Setup



Item	Description
Alarm Duration(Seconds)	Alarm duration time (1~60 seconds).

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.
Enable	Check the box to Enable/ Disable motion detection for each channel.
Sensitivity	Drag the bar or press ◀ ▶ to set up Sensitivity from value 0 to 10 for each channel. The lower value you set the lower sensitivity it will be
Motion Area Setup	Enter to setup motion detection area

5.3.1.1 Motion Area Setup



There are 16x12 partitions in motion detection area. Under initializing status, motion detection area is in the entire screen. Transparent colored area is detected; yet the undetected area is red. It is purple while network is connected.

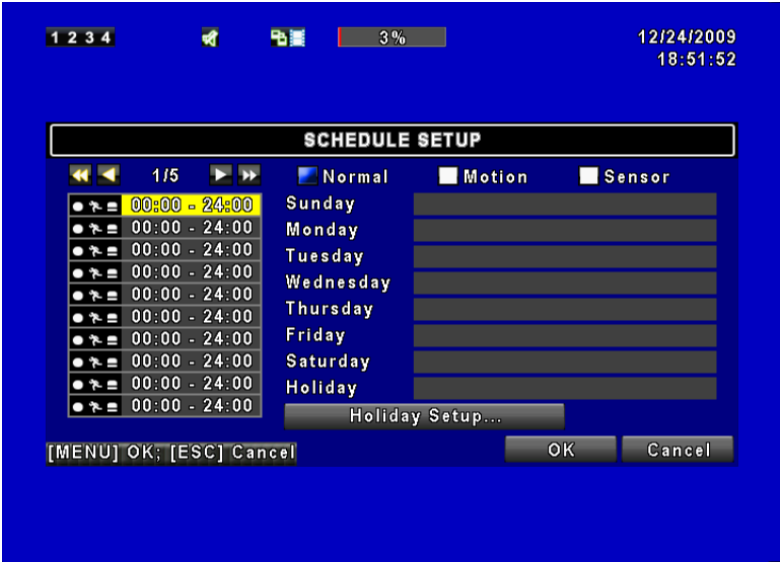
Item	Description
Mask Mouse Selection	Select to mask the mouse selected area.
All Area Detection	Select all the images as motion detection area.
Mask All Area	Cancel all motion detection images on the screen.
Continue	Continue setup.
Exit & Save	Save setup and exit setup page.
Exit & Discard	Cancel setup and exit setup page.

5.3.2 Sensor Setup



Item	Description
Alarm Duration(Seconds)	Alarm duration time (1~60 seconds).
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.

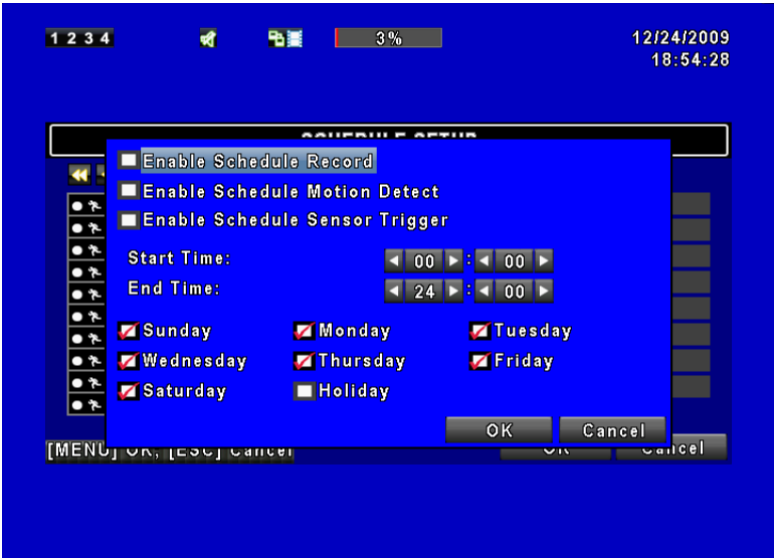
5.4 Schedule Setup



Apart from manual recording, you can also setup the recording time by weeks and schedule recordings include: normal, motion detection, and sensor detection.

Item	Description
Page	Click or press ▼ to select Page. Each page provides 10 schedules for setup. 5 pages in total.
Holiday Setup	Enter to setup holiday, maximum up to 50 days.
View Event Setup	View Normal/ Motion / Sensor Setup.

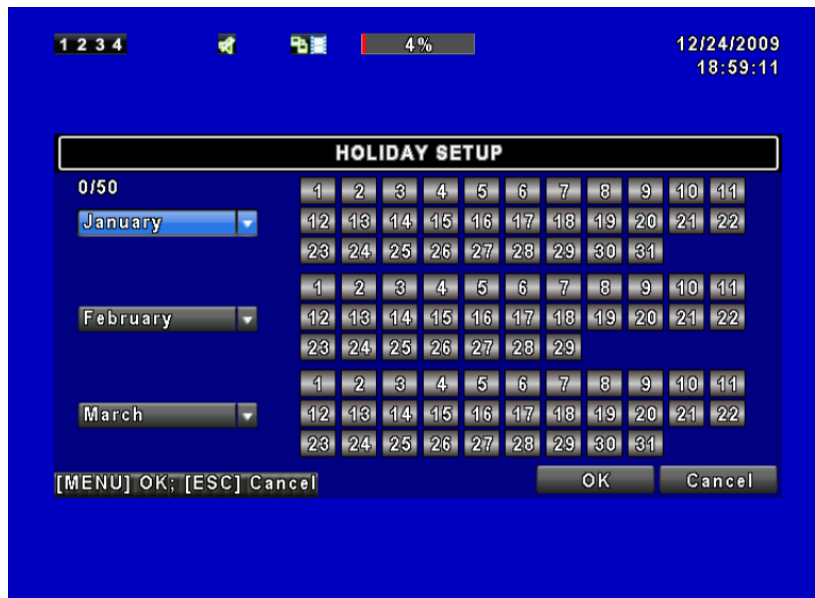
5.4.1 Schdule Record Setup



Click on the time icon on the left side. The setup menu will be displayed. You can have detail setup by dates, time and event.

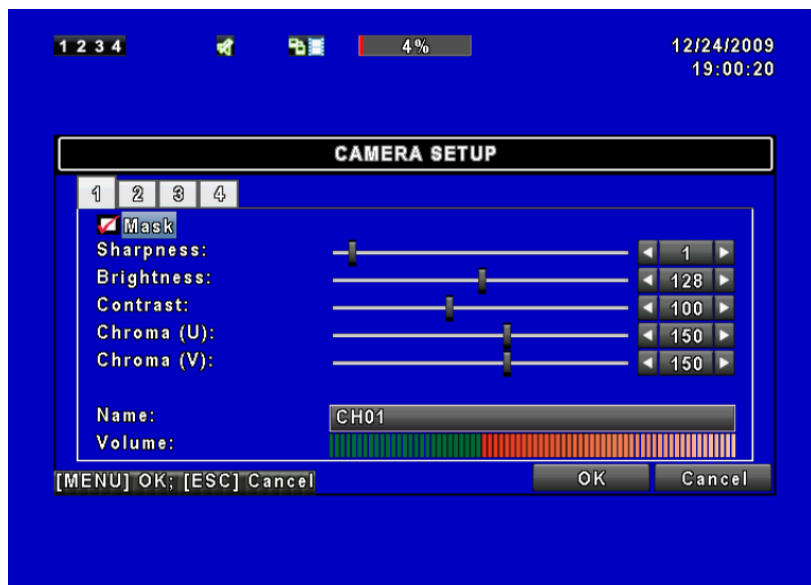
Item	Description
Enable Schedule Record	Enables schedule recording according to the time schedule (shown above).
Enable Schedule Motion Detect	Enables schedule motion detection recording according to the time schedule (shown above).
Enable Schedule Sensor Trigger	Enables schedule sensor trigger recording according to the time schedule (shown above).

5.4.2 Holiday Setup



Since holidays are different between countries and regions, you can setup the holiday of your location accordingly (Maximum Setup: 50).

5.5 Camera Setup

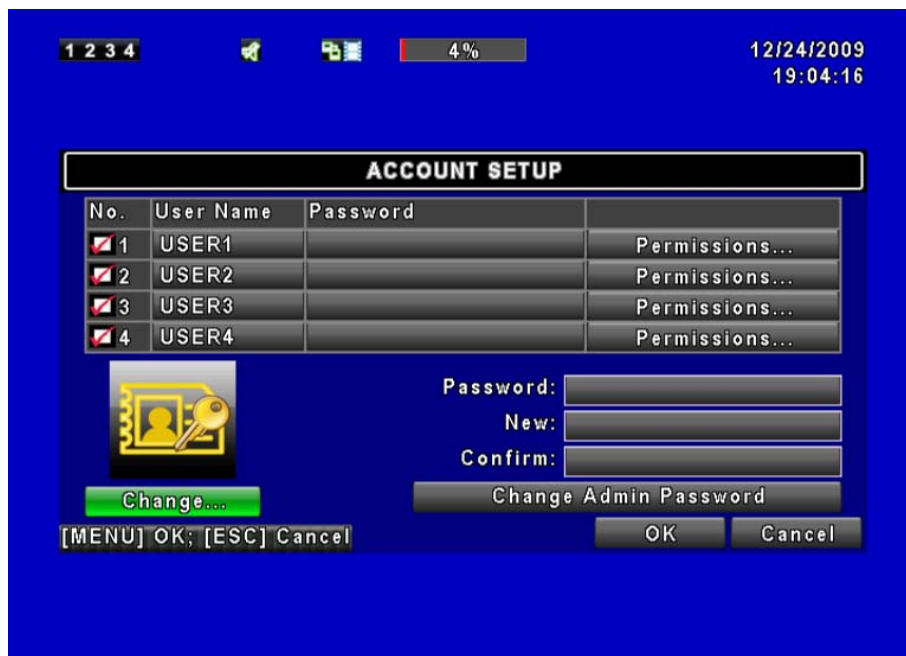


Item	Description
<div>1 2 3 4</div>	You can setup independently for each channel.
Mask	Check the box to Enable/ Disable mask function for LIVE mode
Brightness	Drag the white bar or press ◀ ▶ to adjust Brightness of your camera from value 1 to 255. The default value is 128.
Contrast	Drag the white bar or press ◀ ▶ to adjust Contrast of your camera from value 1 to 255. The default value is 128.
Saturation	Drag the white bar or press ◀ ▶ to adjust Saturation of your camera from value 1 to 255. The default value is 128.
Chroma (U)	Drag the white bar or press ◀ ▶ to adjust Chroma (U) of your camera from value 0 to 255. The default value is 150.
Chroma (V)	Drag the white bar or press ◀ ▶ to adjust Chroma (V) of your camera from value 0 to 255. The default value is 150.
Hue	Drag the white bar or press ◀ ▶ to adjust Hue of your camera from value 1 to 255. The default value is 128. (This function is ineffective in PAL system).
Name	Set up name of each channel.
Volume	Select to adjust audio volume for CH1 to CH 4 under LIVE mode and recording mode.

NOTE!

Network LIVE videos are unable to be switched off when applying Mask function. To avoid network LIVE videos, please use User permission mask playback features (Administrator has no such permissions).

5.6 Account Setup



The Account Setup menu is used to provide role-based permission independently for each user (maximum of 4 users) to access the DVR over network. The default admin account is [admin] and password is "123456".

Item	Description
No.	Check to activate the user's account.
User Name	Edit the user name.
Password	Enter to set up password for each user.
Permissions	Enter to setup Permissions for each user.
Change	Change the ICON with a selected BMP file.
Change Admin Password	Enter to change administrator's password.

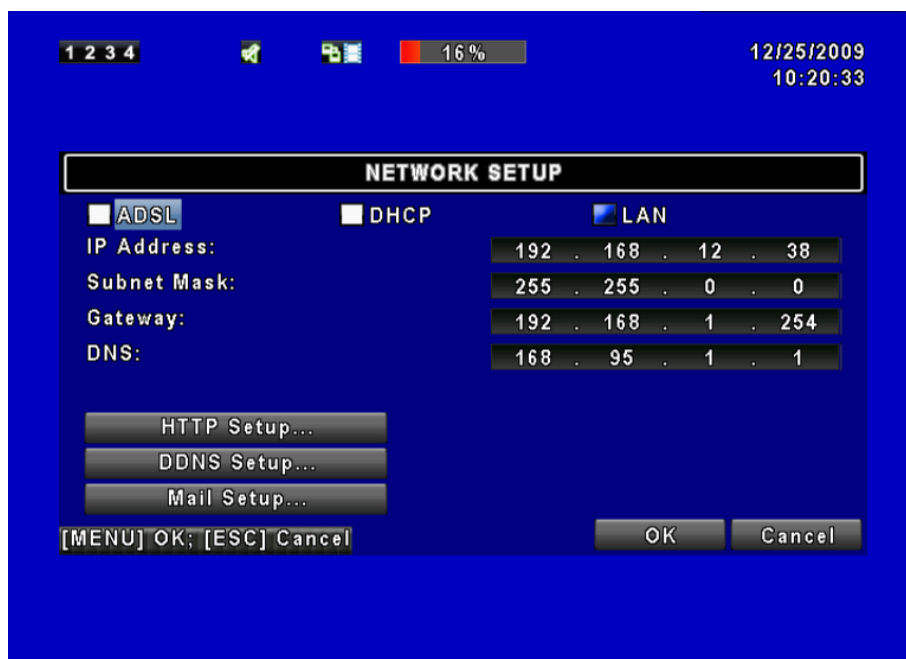
CAUTION: If you've forgotten the password, you have to send the dvr back to Lupus-Electronics in order to be reseted.

5.6.1 Permission Setup



The Account Setup is set to provide individual user (maximum of 4 users) role-based permissions, including access to Setup menu, Network operation, PTZ function, Playback, Utility, Backup and Mask on specific channels while playing back.

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

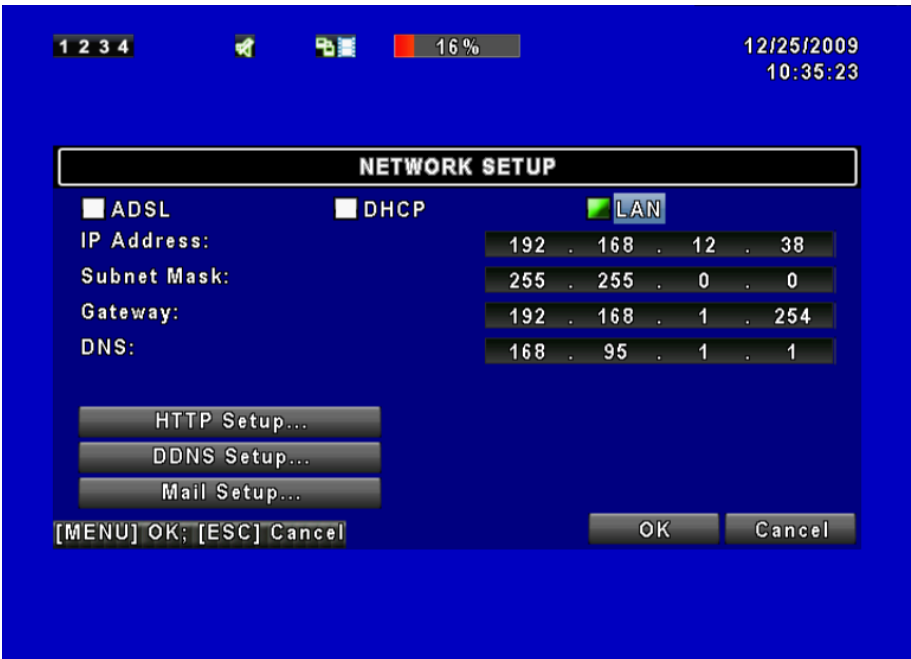
The DVR supports DHCP, LAN and ADSL access for network connection.

5.7.1.1 DHCP



If the DHCP option is used for DVR network connection, an IP address is assigned by the DHCP server automatically.

5.7.1.2 LAN



Select LAN for network connection, the following information is required.

Item	Description
IP Address	Enter IP address provided by ISP
Subnet Mask	Enter IP address of Subnet Mask provided by ISP

Gateway	Enter IP address of Gate way provided by ISP
DNS	Enter DNS address provided by ISP. (Note: The correct DNS address must be entered for DDNS function).

5.7.1.3 ADSL

Select ADSL for network connection, the following information is required.

The screenshot shows a blue background with a status bar at the top displaying '1 2 3 4', a battery level of 16%, and the date/time '12/25/2009 10:35:20'. The main window is titled 'NETWORK SETUP' and contains three radio button options: **ADSL** (selected), **DHCP**, and **LAN**. Below these are input fields for 'User Name:' and 'Password:'. At the bottom, there are buttons for 'HTTP Setup...', 'DDNS Setup...', and 'Mail Setup...', along with 'OK' and 'Cancel' buttons. A keyboard hint '[MENU] OK; [ESC] Cancel' is visible at the bottom left.

Item	Description
User Name	Enter user name provided by ISP
Password	Enter password provided by ISP

5.7.2 HTTP Setup

The screenshot shows a blue background with a status bar at the top displaying '1 2 3 4', a battery level of 16%, and the date/time '12/25/2009 10:37:32'. The main window is titled 'HTTP SETUP'. It features a checkbox for 'Enable HTTP Server' which is checked. Below it is a 'Port:' field set to '80'. To the right is a table with four rows, each with a checked checkbox, the word 'Normal', and a value of '1' in the 'FPS' column. At the bottom, there is a 'Dual Stream:' section with a value of '4/50' and an 'Auto' button. 'OK' and 'Cancel' buttons are at the bottom right, and a keyboard hint '[MENU] OK; [ESC] Cancel' is at the bottom left.

No.	Quality	FPS
<input checked="" type="checkbox"/>	Normal	1
<input checked="" type="checkbox"/> 1	Normal	1
<input checked="" type="checkbox"/> 2	Normal	1
<input checked="" type="checkbox"/> 3	Normal	1
<input checked="" type="checkbox"/> 4	Normal	1

Item	Description
Enable HTTP Server	Check to enable HTTP server. Users can remotely access into the DVR over the network if the HTTP function is activated.
Port	Enter a valid port value from 1 up to 65535. The default value is 80.
Quality and Frame Rate Setup for Network Transmission	
No.	Check to activate the transmission of each camera.
Quality	Choose from Below Basic / Basic/ Normal/ High/ Highest.
FPS	Choose recording frame rate (1~30FPS).
Auto	The maximum recording frames available by the average distribution of each channel (totally 60FPS).
<p>This video streaming is used for network transmission; setting is LQ (low quality). Under a low bandwidth capacity, this stream can send out small picture and keep a good video quality and smooth display rate. If the bandwidth is large enough, it can be adjusted to HQ (high quality). Thus, the network streaming will be switched to the condition which this DVR is recording. Therefore, a larger video image can be sent to remote site.</p>	

5.7.3 DDNS Setup

Item	Description
Enable DDNS	Check/ Uncheck to Enable/ Disable DDNS function.
DDNS Server	Enter the registered SMTP Server: DYNDNS.ORG, NO-IP.ORG, CUSTOM.COM
SMTP Server	Enter the registered SMTP Server.
User Name	Enter user name.
Password	Enter password.

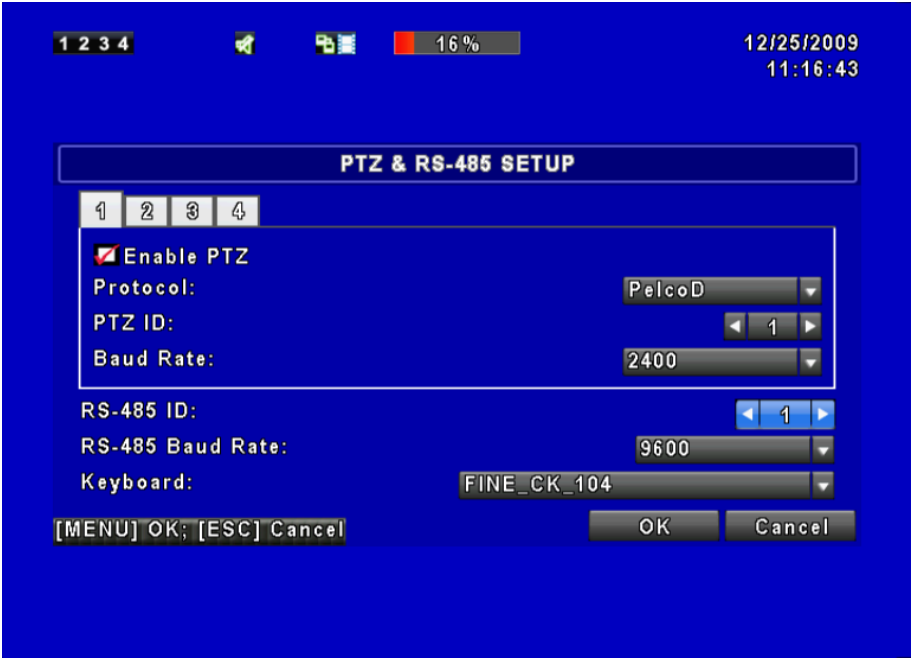
5.7.4 Mail Setup

The screenshot shows a 'MAIL SETUP' window on a blue background. At the top, there's a status bar with '1 2 3 4', a battery icon at 16%, and the date/time '12/25/2009 10:37:54'. The main window has a title bar 'MAIL SETUP'. Inside, there's a checkbox 'Enable E-mail Notification'. Below it are four text input fields: 'SMTP Server:', 'User Name:', 'Password:', and 'Sender E-mail:'. Under these is a section 'Trigger Events:' with three checkboxes: 'Video Loss', 'Motion', and 'Sensor', all of which are checked. Below the checkboxes is a button labeled 'Receiver E-mail...'. At the bottom of the window are two buttons: 'OK' and 'Cancel'. A footer line reads '[MENU] OK; [ESC] Cancel'.

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

Item	Description
Enable E-mail Notification	Check the box to enable/disable E-mail Notification function.
SMTP Server	Enter to set up SMTP Server name.
User Name	Enter to set up User Name.
Password	Enter to set up Password.
Sender E-mail	Enter to set up e-mail address of receivers.
E-mail address	Enter to set up e-mail addresses for up to 10 receivers individually.
Trigger Event	Enter to select events to send out E-mail notifications when below circumstances happen: Motion, Sensor and Vloss (Video Loss).

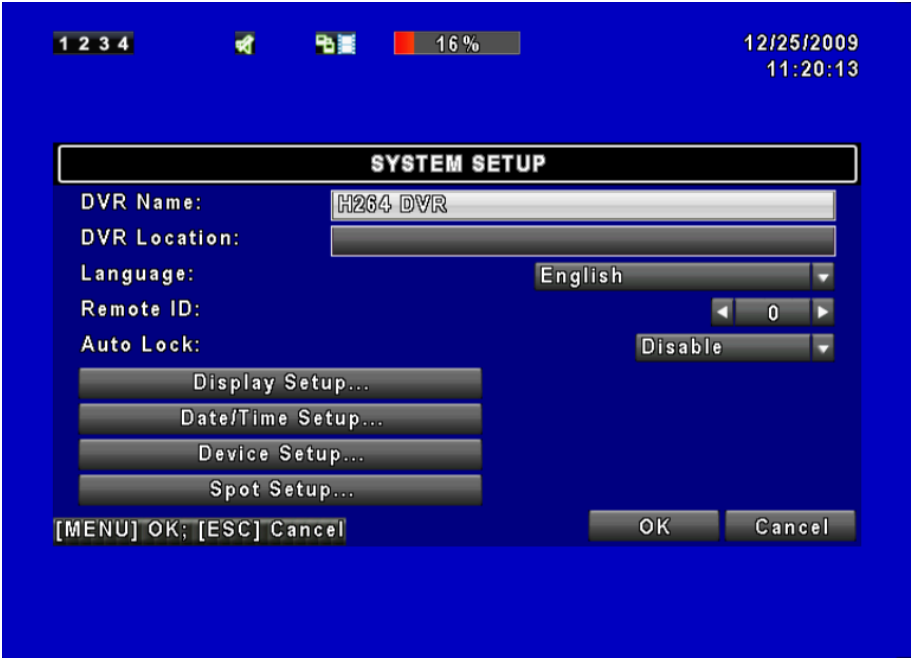
5.8 PTZ & RS-485 Setup



The DVR allows users to control PTZ functions of your camera. To enable PTZ function, the 485 cable should be connected to the RS-485 port of DVR.

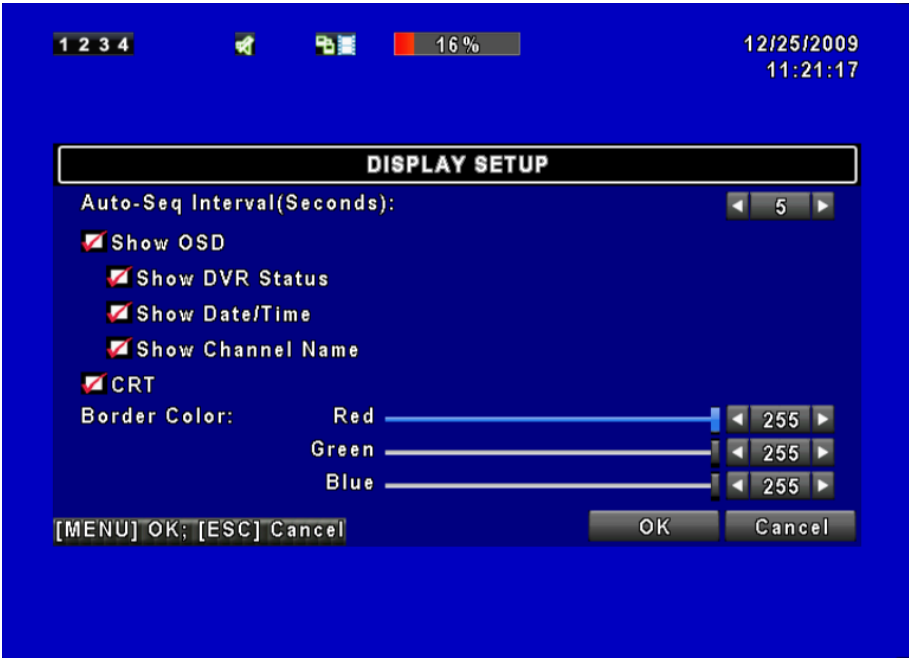
Item	Description
Enable PTZ	Click the box to Enable/Disable PTZ function for each channel.
Protocol	Set up the protocol of PTZ cam.
PTZ ID	Click or press ◀ ▶ to set up PTZ ID. The valid ID value is from 1 to 64.
Baud Rate	Select Baud Rate for PTZ from 2400、4800、9600 、19200
RS-485 ID	Reserved.
RS-485 Baud Rate	
Keyboard	

5.9 System Setup



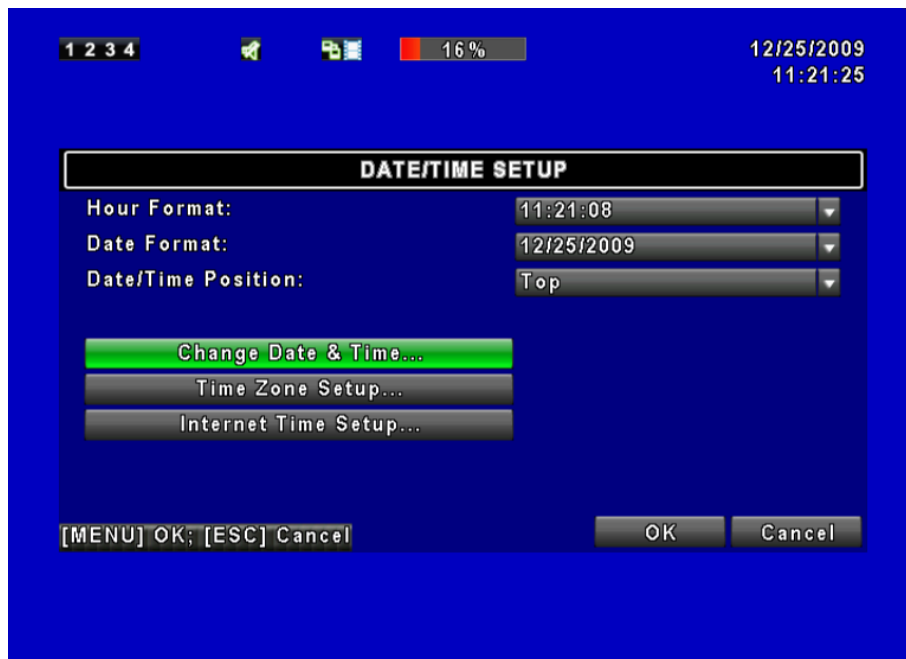
Item	Description		
DVR Name	The name of DVR will be shown when users login from remote access.		
DVR Location	The location of DVR will be shown when users login from remote access		
Language	Click or press ▼ to select OSD language.		
Auto-Seq Interval (Seconds)	Click or press ◀ ▶ to set up duration time in seconds for the interval between channels under Auto-Seq mode.		
Remote ID	Preserved Function.		
Auto Lock	After one minute without any action, the DVR will switch to <i>LIVE</i> mode automatically. Auto lock can function differently according to the setting below. Button automatically Auto Lock: The front panel function keys are ineffective only until using the mouse and please re-enter the password again.		
	Function	Auto Logout	Key Lock
	Setting		
	Key lock	○	○
	Key unlock	○	×
Display Setup	Disable	×	×
	Enter to set up Display		
	Enter to set up Date/Time		
	Enter to set up Buzzer & Relay		
Spot Setup	Enter to set up Spot		

5.9.1 Display Setup



Item	Description
Auto-Seq Interval (Seconds)	Click or press ◀ ▶ to set up duration time in seconds for the interval between channels under Auto-Seq mode (1~999 seconds).
Show OSD	Turn On / Off OSD display
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
CRT	Make the display more suitable for CRT monitor.
Border Color	Set up the color of border in LIVE , PLAYBACK mode. (black, dark grey, light grey, and white)

5.9.2 Date/ Time Setup



Item	Description
Hour Format	12HOURS/ 24HOURS
Date Format	MM-DD-YY/DD-MM-YY/YY-MM-DD
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 GMT and Daylight Saving Time.
Internet Time Setup	Setup automatic synchronization with internet server

5.9.2.1 Change Date & Time



5.9.2.2 Time Zone Setup

TIME ZONE SETUP

Select Time Zone: GMT+ 08 : 00

☒ Daylight Saving Time

Start Time:
January 1st Sunday AM 00

End Time:
January 1st Sunday AM 00

[MENU] OK; [ESC] Cancel OK Cancel

In time zone setup, users can change the time zone and activate Daylight Saving Time function according to your DVR location.

Item	Description
Select Time Zone	Enter to modify GMT from GMT- 13 to GMT+ 13
Daylight Saving Time	Turn On/ Off Daylight Saving Time

5.9.2.3 Internet Time Setup

INTERNET TIME SETUP

☐ Automatically Synchronize

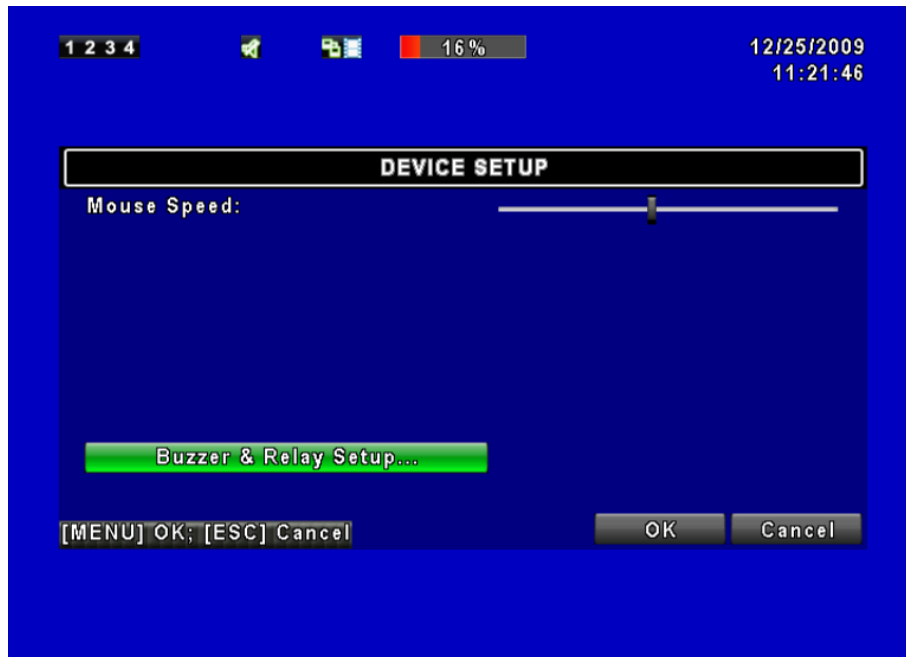
Server:
time.nist.gov Update Now

[MENU] OK; [ESC] Cancel OK Cancel

Synchronize your DVR time with internet time server.

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



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 Setup



The DVR has two modes of video output; one is the main video output, the other is spot video output. SPOT setup is for controlling orders of channels that the system cycles through in SPOT mode. User can monitor every channel in the SPOT mode.

Item	Description
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.

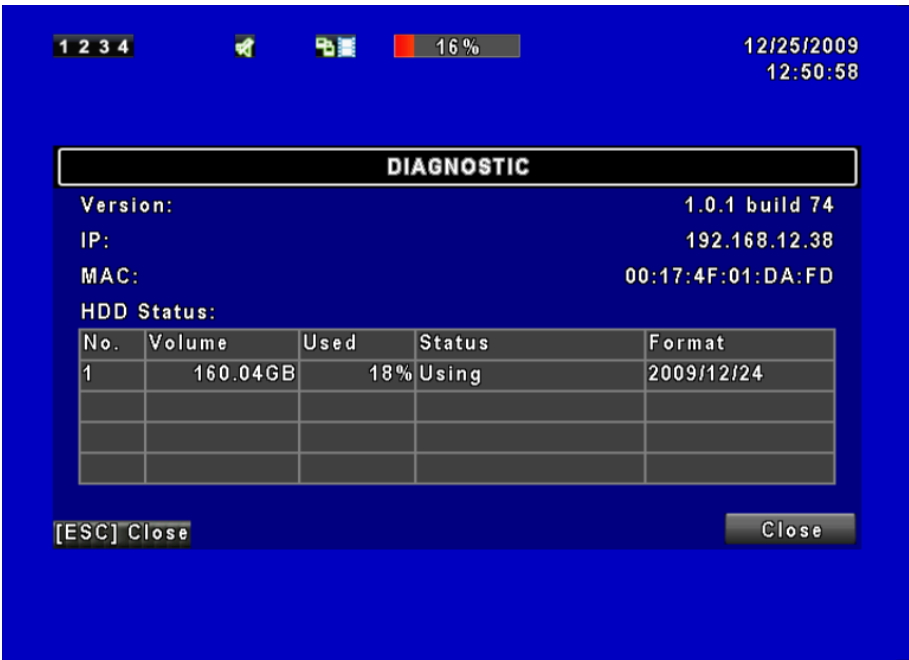
5.10 Utility Setup



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".
System Recovery	Restore system default values.
Reset System Events	Reset all the recording events in the DVR.
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.
Upgrade	Upgrade DVR through USB. 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.

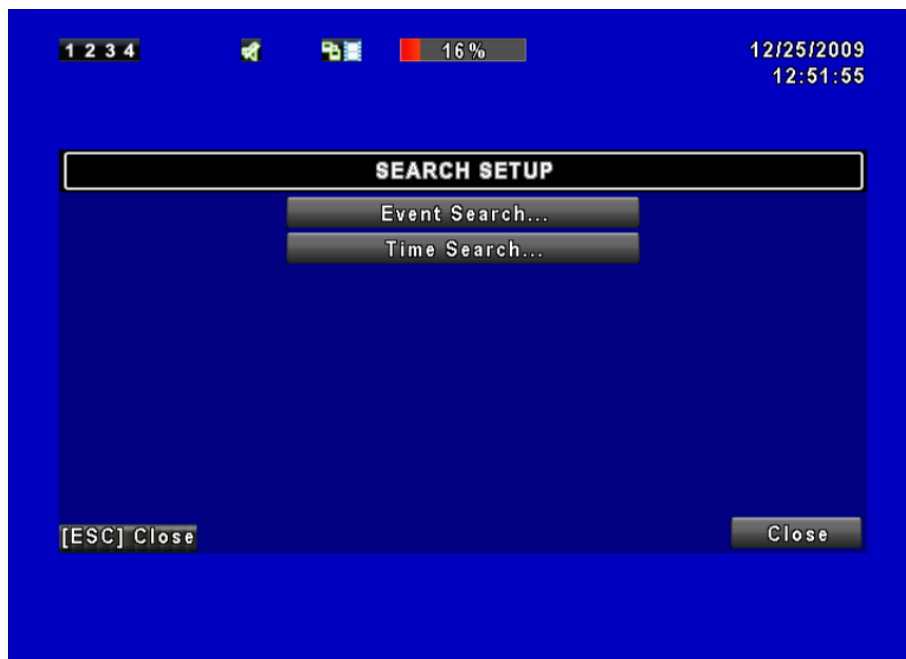
5.11 Diagnostic



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

Chapter 6 SEARCH & BACKUP

6.1 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



The DVR 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	Convert pages of events
Date/Time	Date/ time when the event occurred.
Event Type	Event type, defined as following: <div><div>Motion</div><div>: Motion Detected</div><div>Sensor</div><div>: Sensor Detected</div><div>Video Loss</div><div>: Video Loss</div><div>Remote Login</div><div>: User log-in over the network</div><div>Remote Logout</div><div>: User log-out over the network</div><div>Power On</div><div>: System Rebooting</div><div>HDD Full</div><div>: HDD is FULL</div><div>HDD Error</div><div>: HDD is error</div><div>Reboot</div><div>: System reboot</div></div>
Channel	The channel where the event occurred.

6.1.1.1 Criteria Setup for Event Search



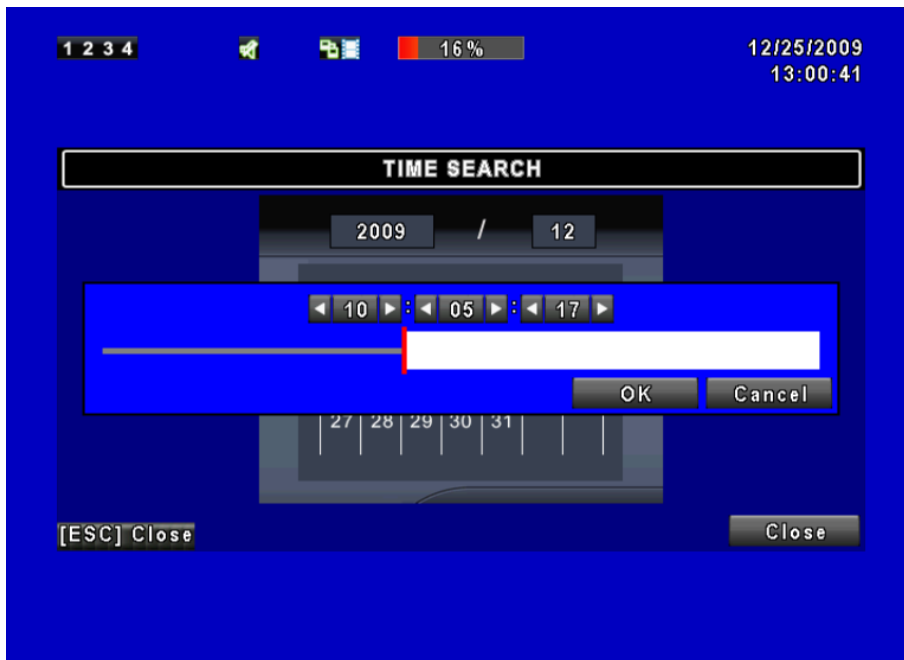
The amount of events can be numerous. Therefore, you can facilitate event sorting by setting up “criteria”. Setup “start time” and “end time” for each event search, then the search result will be limited to this specific period of time. Only events and channels that are ☒ checked will be sorted in event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

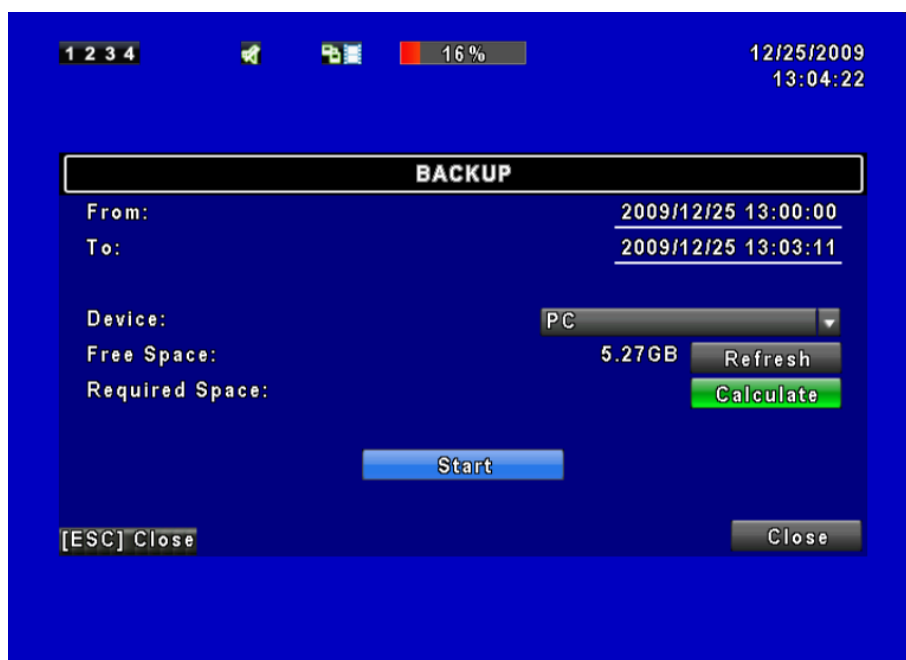
by using mouse to click on “year” and “month”.



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 “DVRremoteDesktop.exe” 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 7 SPECIFICATION

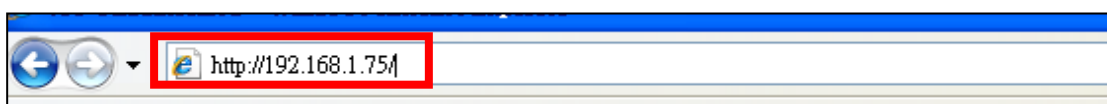
VIDEO	VIDEO SYSTEM		NTSC/ PAL Selectable
	INPUT		4CH BNC
	LOOP		N/A
	VIDEO OUTPUT		1.0 Vp-p Composite, 75 Ohm Balanced
	SPOT OUTPUT		1CH, BNC
	VGA OUTPUT		1024x768
AUDIO	INPUT		0.5~1.4 Vp-p @ 20K Ohm
	OUTPUT		1CH, RCA
	BACKUP		YES
TERMINAL	SENSOR		4 Inputs/ 1 Outputs
	RS-485 INTERFACE		Pan/ Tilt/ Zoom Camera
CONTROL	MOUSE		USB Mouse
	IR CONTROLLER		YES
STORAGE	DEVICE		Supports SATA Hard Disk x1 (max. 1TB)
DISPLAY	DIVISION		1,4
	ZOOM		2X
	OSD		Graphic OSD
RECORDING	COMPRESSION		H.264
	RESOLUTION		720x480, 720x240, 360x240 (NTSC) 720x576, 720x288, 360x288 (PAL)
	FRAME RATE	NTSC	60, 120, 120FPS
		PAL	50, 100, 100FPS
	QUALITY		Highest/ High/ Normal/ Low/ Lowest
	RECORD MODE		Manual, Schedule, Event (Motion Detection, Sensor, Video Loss)
	MOTION DETECTION		User selectable motion detection area for each camera individually
			Sensitivity: 5 levels
	PRE-ALARM		16 MB
	POST-ALARM		16 MB
PLAYBACK	WATERMARK		N/A
	SEARCH MODE		Time, Event
	SPEED		Normal, REW&FF[2x/4x/8x/16x/32x/64x], Picture to Picture, Pause
	INTERNAL		HDD
	EXTERNAL		N/A

NETWORK	COMPRESSION	H.264
	INTERFACE	Internal Explorer Browser
	SERVICE	TCP/ IP, SMTP, HTTP, DHCP, DDNS, PPPoE
BACKUP	INTERNAL	N/A
	EXTERNAL	USB 2.0 (1 Port at Front Panel) : USB Flash Driver
	NETWORK	YES
	BACKUP FILE	H.264 Compression
MONITORING	Software Watchdog	
RECOVERY	Auto-Reboot By Watchdog	
FIREWARE UPGRADE	USB 2.0 Port (1 Port at Front Panel)	
MULTI-LANGUAGE	English/ Traditional Chinese/ Italian/ Japanese/ Portuguese/ Spanish/ German/ French/ Russian/ Simplified Chinese/ Polish	
DIMENSION	188mm (W) x 54mm (H) x209mm (D)	
POWER SOURCE	DC 12V	

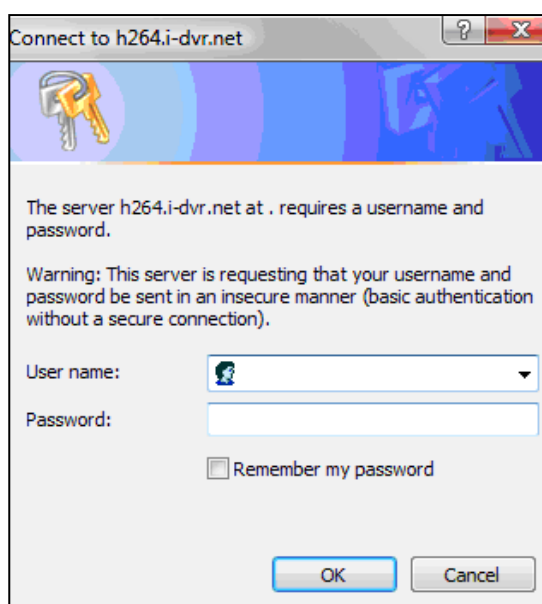
Chapter 8 NETWORK SURVEILLANCE

8.1 AP Software Installation and Setup

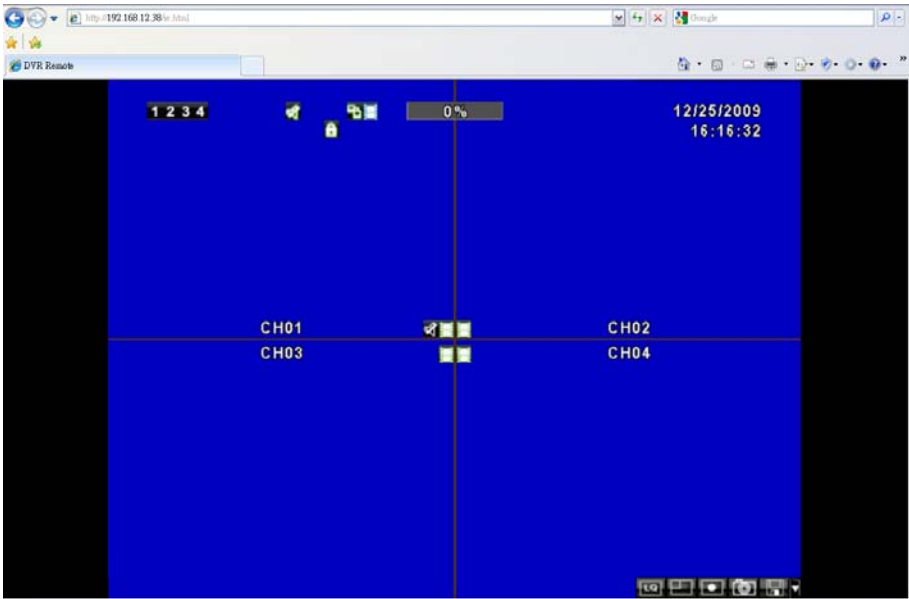
Step 1 : Enter the IP address of the DVR in the IE browser.



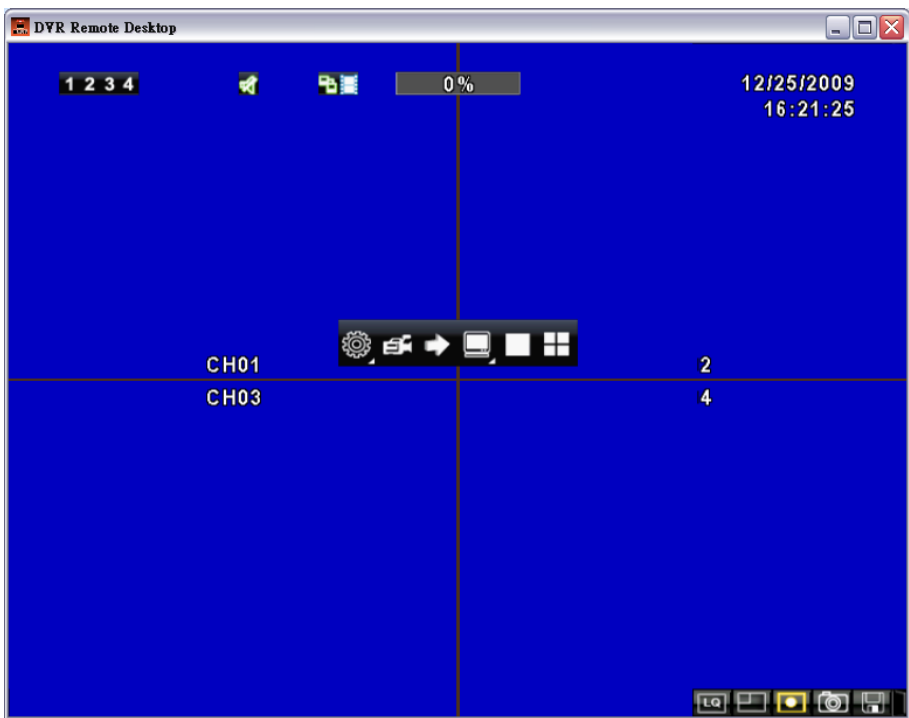
Step 2: A window will pop-up. Please enter the user name and password. Default user name is **admin** and password is **123456**. Other related setup about user account and password, please refer to “**5.6 Account Setup**”.



Step 3: You've logged into the DVR



Internet Explorer



Software Application

8.2 AP Software Operation

User-friendly operation, DVR remote interface provides the DVR with the same local client interface.

8.2.1 Remote Record



Click Record icon to select between 3 recording options (Record On/ Off, Record to Local..., Screen Snapshot [F2]). Record switch can activate DVR client to record, record to local client can be backed up onto the PC, may also use snapshot to capture video image onto the PC.

8.2.2 Lock



Click Lock icon to lock remote-site function and to unlock, account and password must be entered all over again.

8.2.3 Full Screen



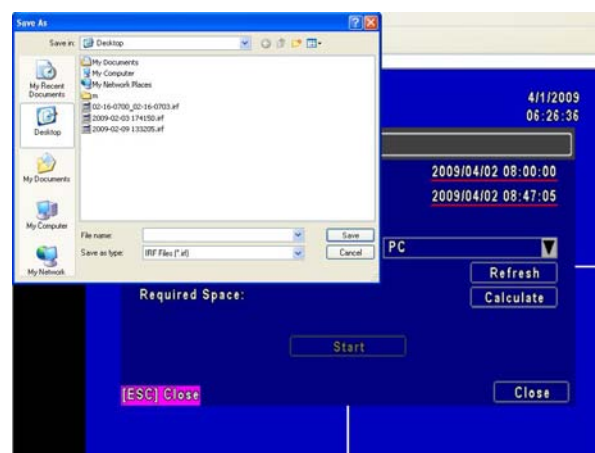
Click Full Screen icon to enlarge the screen to full screen display.

8.2.4 Camera Name



A variety of languages can be used to setup the PC client camera names; and simultaneously changes the display of the local client DVR.

8.2.5 Remote-Site Backup



Select backup function to backup the data to PC.

Chapter 9 Mobile Connection

Mobile Application

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”.

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:

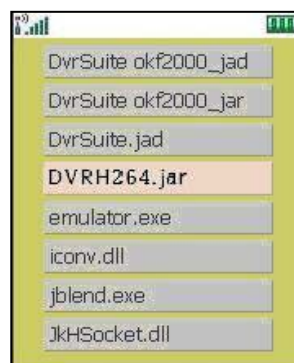
<http://lhreDVRAdresse.dyndns.org/Mobile.html>)

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 or via Internet <http://www.lupus-electronics.de/file/803/>.

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.



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.

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.

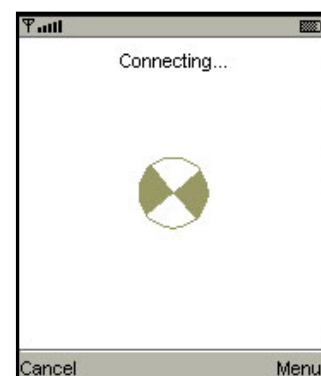
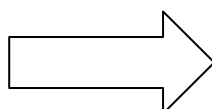
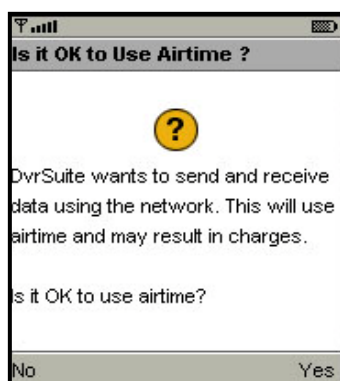


1.2.2 Logging onto the DVR

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.

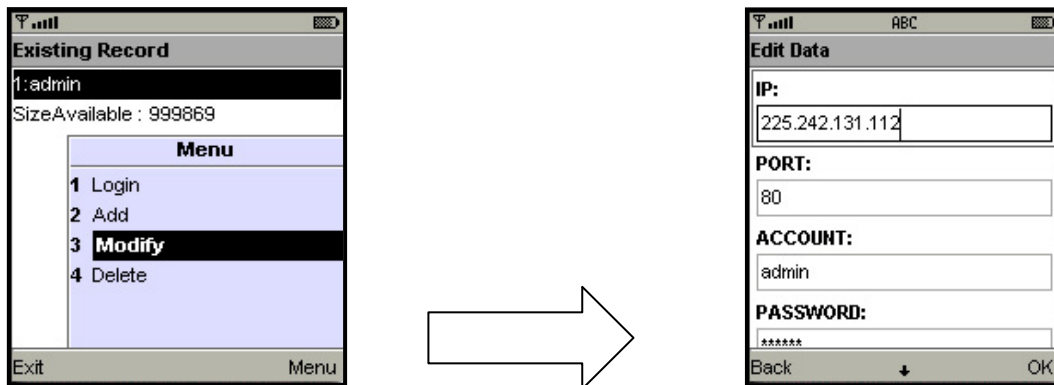
Network connectivity will take some time. It will be affected by networking environment and bandwidth flow. Live image will show up after a successful connection.



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

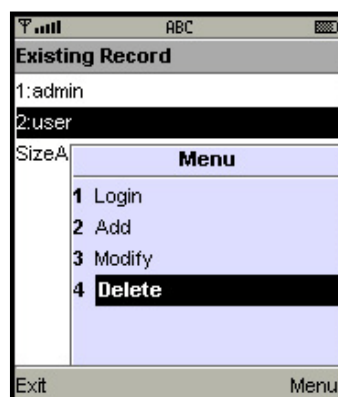
1.2.3 Modify the Login Information of the DVR

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



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**”.



1.3 Live Monitoring Operation

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

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

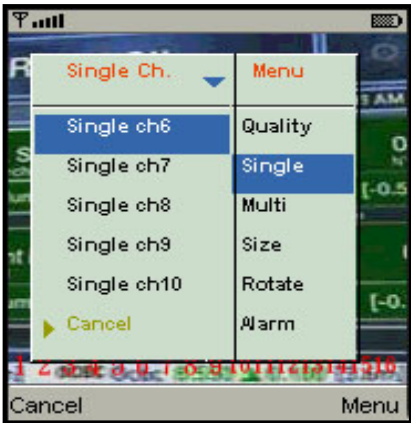
1.3.2 Image Quality Setup

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



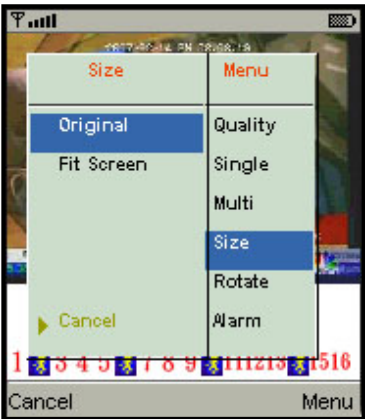
1.3.3 Channel Display

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.

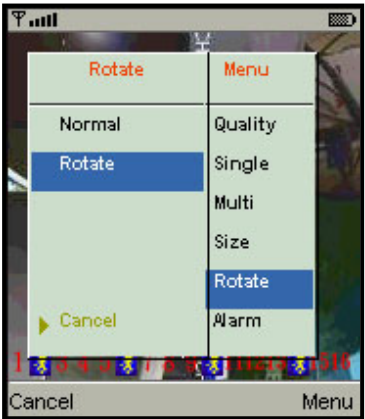
1.3.4 Size of Image



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.

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.

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

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.

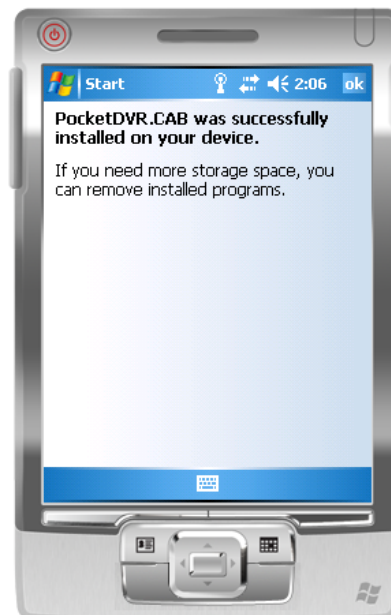
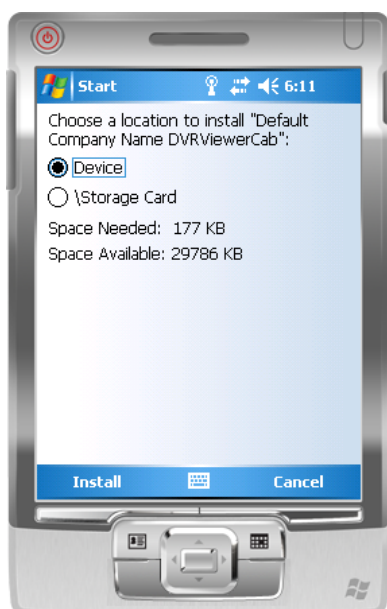
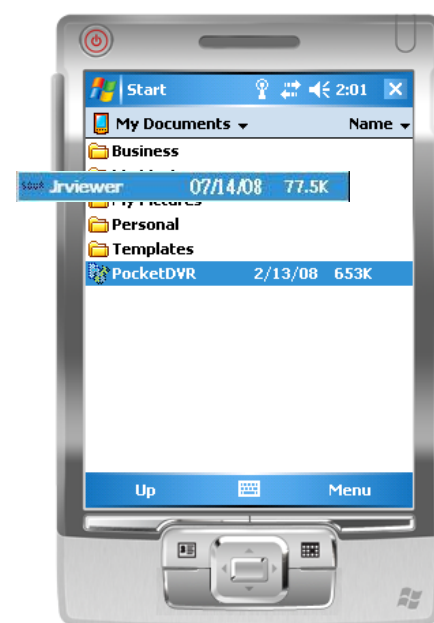
Mobile device need to support internet: GPRS / 3G / Wifi... etc.

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/803/>.

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.



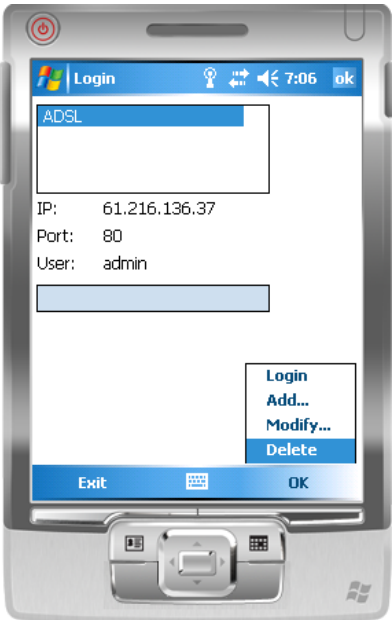
2.2 Mobile Application Operation

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

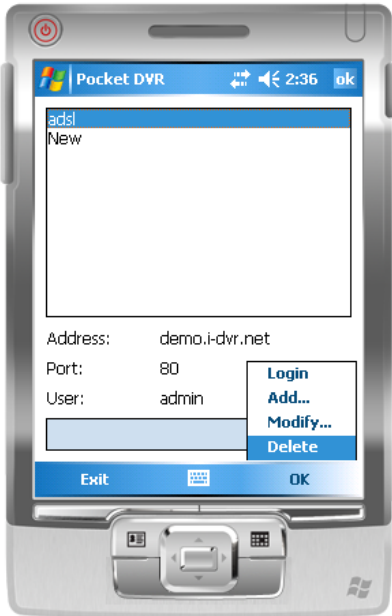
This application allows you to remotely logon and monitor the DVR. Press “OK” to bring up the operation menu; see chart the below for further information.

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












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










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	<p>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.</p> <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>	Icon	Description		Motion Detect		Sensor Trigger		V-Loss
Icon	Description									
	Motion Detect									
	Sensor Trigger									
	V-Loss									
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.								

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	<p>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 <input type="checkbox"/> uncheck the “Status Bar” to inactivate this function.</p> <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>	Icon	Description		Motion Detect		Sensor Trigger		V-Loss
Icon	Description									
	Motion Detect									
	Sensor Trigger									
	V-Loss									
Alarm	Alarm	Alarm through your mobile device can be triggered if there is event to be detected. You can also <input type="checkbox"/> uncheck the “ Alarm ” under the “View” to inactivate this function.								
Full Screen	Full screen display	<input checked="" type="checkbox"/> Check this function to choose one channel to display in full screen.								

Chapter 10 Internet Connection

Requirements:

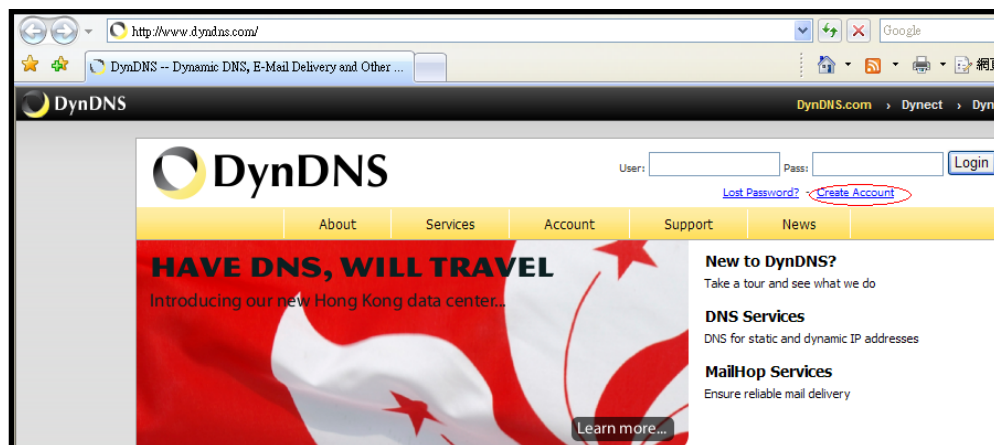
- a. Router and Recorder have to be connected correctly
- b. Recorder and camera are already accessible over the internal network connection
- c. Networkaddress-configuration is made via DHCP (if not, please change the settings within your router to DHCP)

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.dyndns.com/> and sign up a free account :

1. Enter DynDNS website. On the top right hand corner click “Create Account” to start creating an account. Please remember your account and password, because this account will be your future login account.



2. Click "Create Account", then DynDNS will ask you to create a DynDNS account. Please follow the instructions below to create your DynDNS Account:
 - a. Username: Enter your account name. If the account name that you've entered has already been created, please select another account name.
 - b. E-mail Address: Enter your E-mail address and DynDNS will email the instruction to your specified E-mail address for enabling your account. Enter again in the Confirm E-mail Address field to confirm E-mail address.
 - c. Password: Enter your DynDNS password and enter again in the Confirm Password field to confirm the password.

Create Your DynDNS Account

Please complete the form to create your free DynDNS Account.

- User Information

Username:	<input type="text"/>	
E-mail Address:	<input type="text"/>	Instructions to activate your account will be sent to the e-mail address provided.
Confirm E-mail Address:	<input type="text"/>	
Password:	<input type="password"/>	Your password needs to be more than 5 characters and cannot be the same as your username. Do not choose a password that is a common word, or can otherwise be easily guessed.
Confirm Password:	<input type="password"/>	

- About You (optional)

Providing this information will help us to better understand our customers, and tailor future offerings more accurately to your needs. Thanks for your help!

3. Please read Acceptable Use Policy (AUP) and accept it prior to creating your account. Check "I agree to the AUP" and "I will only create one (1) free account", and make sure the information is correct, then click [Create Account].

- Terms of Service

Please read the acceptable use policy (AUP) and accept it prior to creating your account. Also acknowledge that you may only have (1) free account, and that creation of multiple free accounts will result in the deletion of all of your accounts.

One member and DynDNS and DynDNS are parties to the agreement between the parties regarding the subject matter contained herein. BY COMPLETING THE REGISTRATION PROCESS AND CLICKING THE "Accept" BUTTON, YOU ARE INDICATING YOUR AGREEMENT TO BE BOUND BY ALL OF THE TERMS AND CONDITIONS OF THE AUP.

2. DESCRIPTION OF SERVICE

DynDNS is providing the Member with various DNS-based aliasing and hosting services. The Member must (1) provide all equipment necessary for its own Internet connection, including computer and modem, and (2) provide for the Member's own access to the Internet and pay any fees related with such connection. The Member agrees to provide and maintain certain current, complete, and accurate information about the Member as prompted to do so by the Service. All information requested on sign-up shall be referred to as

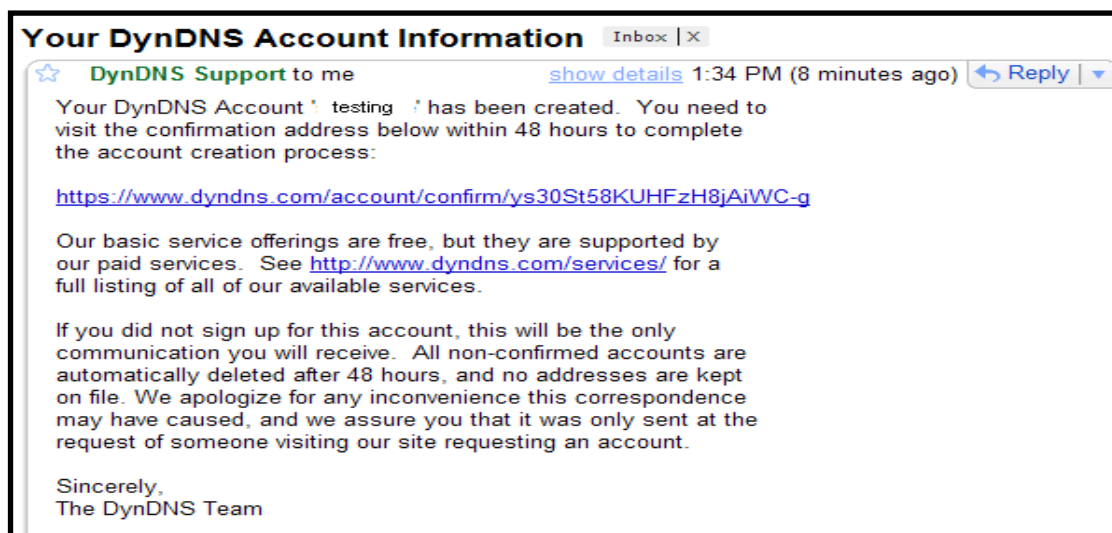
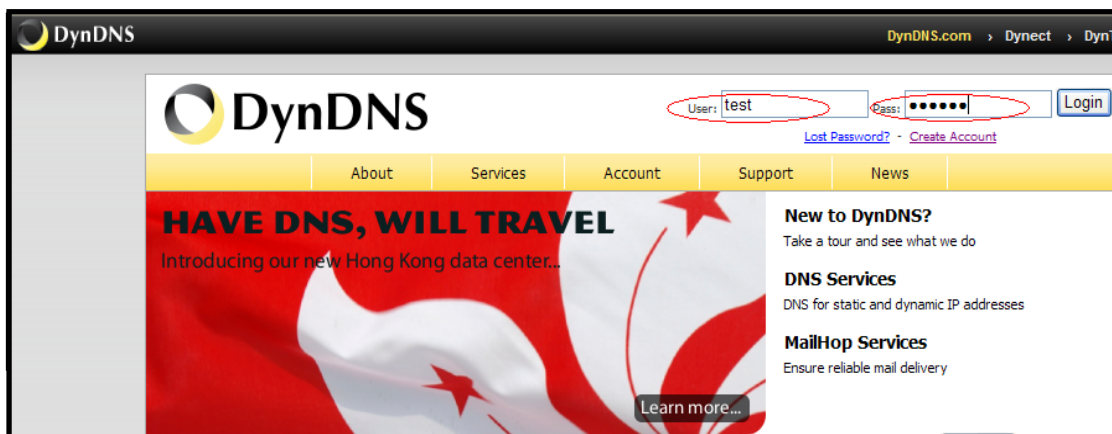
I agree to the AUP: ☐

Next Step

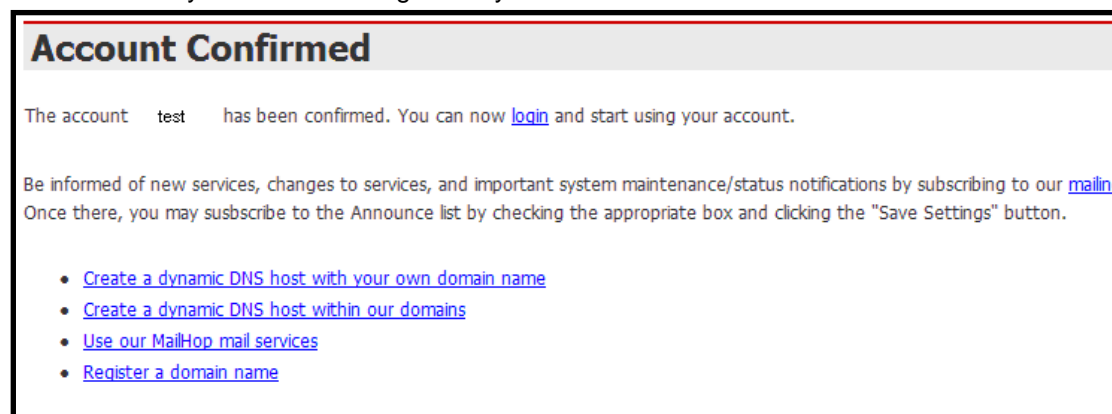
After you click "Create Account", we will create your account and send you an e-mail to the address you provided. Please follow the instructions in that e-mail to confirm your account. You will need to confirm your account within 48 hours or we will automatically delete your account. (This helps prevent unwanted robots on our systems)

Create Account

4. Then, you will see the screen “Account Created”, and DynDNS will email the instructions to your specified E-mail address for enabling your account.



10. Press the link in the mail and you will see “Account Confirmed”. Your account is created successfully now and then login with your account



11. Please return to DynDNS website. On the top right hand corner enter the “User” and “Pass” field that you just created. Then click [Login] to enter.

12. After login successfully, click “My Service”.

DynDNS Logged In User: sunm
[My Services](#) - [My Cart](#) - [Logout](#)

About **Services** Account Support News

My Account
My Services
Account Settings
Billing
My Cart [0 items](#)
Search

Account Summary for [username]

My Services
View, modify, purchase, and delete your services.
[My Zones](#)
[Add Zone Services](#)
[My Hosts](#)
[Add Host Services](#)
[Account Upgrades](#)
[MailHop Outbound](#)
[Network Monitoring](#)
[SSL Certificates](#)
[Recursive DNS](#)

Billing
Update your billing information, complete a purchase, and view invoices.
[View Shopping Cart](#)
[Active Services](#)
[Order History](#)
[Billing Profile and Vouchers](#)
[Renew Services](#)
[Auto Renew Settings](#)
[Sync Expirations](#)

Account Settings
Update your e-mail address, preferences, and delete your account.
[Change E-mail Address](#)
[Change Password](#)
[Change Username](#)
[Contact Manager](#)
[Mailing Lists](#)
[Move Services](#)
[Preferences](#)
[Close Account](#)

13. Please click “Dynamic DNS” icon.

About **Services** Account Support News

Services

We offer you superior domain name services (DNS), high quality domain management, world-class e-mail services, web redirection, and network monitoring. All of our services include **free technical support by e-mail or phone** where you speak to a highly trained engineer rather than a call center reading a script off of a screen.

[Why DynDNS](#) - why you should choose us
[Technology Overview](#) - a peek behind the curtain

DNS Services

Dynamic DNS
A free DNS service for those with dynamic IP addresses.

Custom DNS
Our dynamic and static DNS management tool for your own domain.

Recursive DNS
Ensure DNS resolution for your DNS queries.

Secondary DNS
Add reliability to your own nameservers.

14. Then click "Get Started" to setup new dynamic domain name.

The screenshot shows the homepage of the Dynamic DNS service. At the top is a navigation bar with links: About, Services, Account, Support, and News. Below this is a header section titled "Dynamic DNS". The main content area explains that Dynamic DNS (DDNS) allows users to create a hostname that points to a dynamic IP or static IP address. It mentions that the service is free and has been offered for nearly 10 years. To the right, there are two buttons: "Get Started" (circled in red) and "Manage Hosts". Below these buttons is a "Screenshot" section showing a preview of the host management interface. Further down, a "Capabilities and Features" section lists several features: getting five hostnames for free, creating wildcard CNAMEs, forwarding web requests, configuring MX records, updating hosts via various clients, modifying DNS TTL values, and delivering DNS records to 5 servers in 5 tier-1 datacenters. At the bottom, it mentions free industry-leading e-mail support and an account upgrade service.

15. Enter and choose the desired host name (ex: IPCAM) and its IP Address (The IP Address may be the same as your IPCAM IP Address). Click "Create Host" after setup has been completed. Fixed IP users can fill-in Fixed IP and Dynamic IP users can click "Use Auto Detected IP Address" and acquire auto detected IP Address.

The screenshot shows the "Add New Hostname" form. At the top is a navigation bar with links: About, Services, Account, Support, and News. Below this is a header section titled "Add New Hostname". The main content area is titled "Host Services" and contains a table with the following data:

Hostname	Service	Details	Last Updated
ipcam.dnsdojo.org	Host	192.168.3.209	Dec. 27, 2007 1:22 AM

Below the table, there are three sections: "Service Type" with radio buttons for "Host with IP address" (selected), "WebHop Redirect", and "Offline Hostname"; "IP Address" with a text input field containing "219.87.138.195" (circled in red), a link to "Use auto detected IP address 219.87.138.195", and a note that the TTL value is 60 seconds with a link to "Edit TTL"; and "Mail Routing" with a checkbox for "Yes, let me configure Email routing." At the bottom right, there is a "Create Host" button (circled in red).

16. Below shows that you have created the host name. You will be connected to the corresponding IP address whenever you enter this host name.

Now, go back to your router config menu and look for a menu item, called DDNS or dynamic DNS

17. Enter your Username, Password as well as your hostname, which you've chosen at the DynDns-Website.
18. Congratulations. You've finished the setup!. Your recorder should now be accessible via Internet Explorer and the URL you've chosen, e.g.. <http://myserver.dyndns.org>

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