



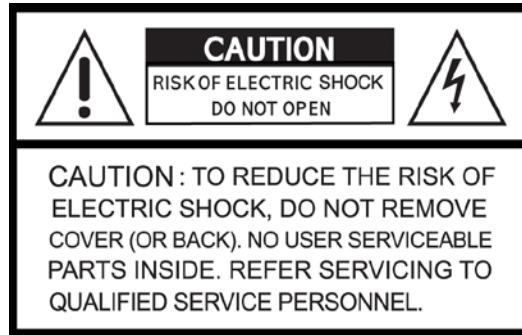
LUPUSTEC[®]

Digital Video Recording System

LE808+ / 816+



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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Chapter 1 FEATURES

- Realtime recording
- Two USB ports (for mouse usage and backup).
- H.264 compression ideal for saving HDD space
- Real time live display
- Up to 400FPS @ 360x288 recording (PAL)
- VGA output resolution up to 1920x1200 Pixel.
- Live display, record, backup, playback and network access at the same time
- Control methods: front panel, USB mouse, IR remote controller, and client viewer
- Intuitive GUI for easy configuration and menu driven operation
- 4 channel audio recording and playback
- Supports SATA HDDs
- Pan / Tilt / Zoom camera control
- Data backup: USB devices and network
- Event triggered with email notification: motion detection, alarm, and video loss
- Support AP on your PC end for remote operation
- Multi-language OSD

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 2 PACKING DETAIL



1. DVR



2. Software CD



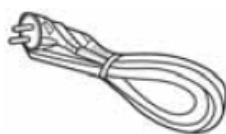
3. User Manual



4. Remote Controller



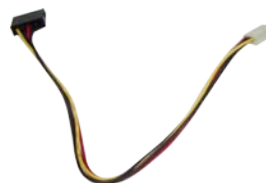
5. Power Adapter



6. Power Cord



7. SATA Data Cord



8. SATA Power Cord



9. Battery



10. HDD Screws



11. HDD Bracket



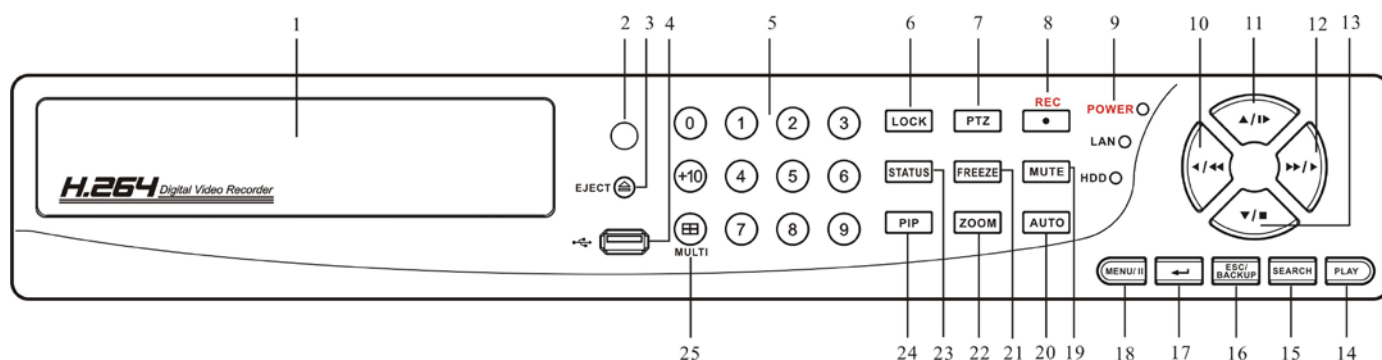
12. I/O (Alarm Cable)

CONTENTS

1. DVR
2. Software CD
3. User Manual
4. Remote Controller
5. Power Adapter
6. Power Cord
7. SATA Data Cord
8. SATA Power Cord
9. Battery
10. Screws for HDD
11. Bracket for HDD
12. I/O (Alarm Cable)

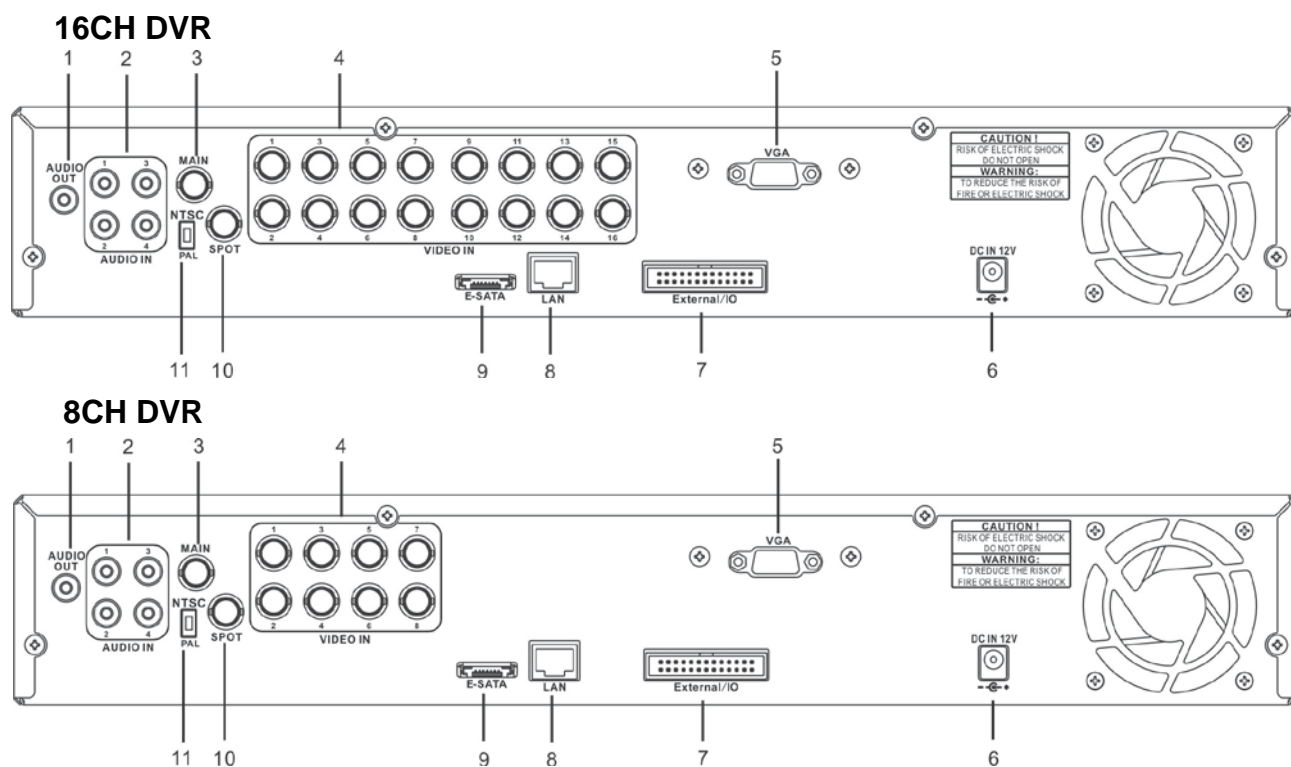
Chapter 3 LOCATION AND CONTROL

3.1 Front Panel Controls



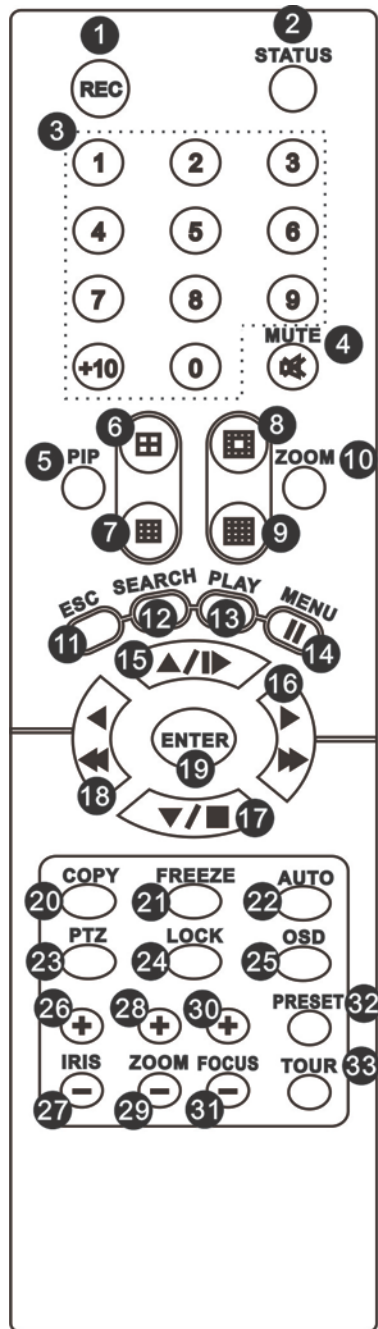
Item		Description
1	DVD-RW	A DVD-RW drive is installed in the front bay.
2	IR SENSOR	Input sensor for the remote control.
3	EJECT	Press EJECT button to open/close the DVD-RW drive.
4	USB 2.0	The USB 2.0 port can be used to connect to numerous USB 2.0 backup devices.
5	NUMERIC BUTTONS/ CAMERA SELECT	Camera Select/ Numeric Button. Press [+10] button to select channels.
6	LOCK	Enable Keypad Function.
7	PTZ	Start/ Stop PTZ Control.
8	REC	Start/ Stop recording.
9	Status LED	DVR status: power, HDD read/ write and network LED indicator.
10	LEFT DIRECTIONAL BUTTON/ REWIND (◀/◀◀)	Left Directional Button. Fast Forward Playback, Speed: 2x, 4x, 8x, 16x, 32x, 64x.
11	UP DIRECTIONAL BUTTON/ SLOW (▲/▶)	Up Directional Button. Slow Forward Playback, Speed: 1/2x, 1/4x, 1/8x, 1/16x.
12	RIGHT DIRECTIONAL BUTTON/ FAST (▶▶/▶)	Right Directional Button. Fast Forward Playback, Speed: 2x, 4x, 8x, 16x, 32x, 64x.
13	DOWN DIRECTIONAL BUTTON/ STOP (▼/■)	Down Directional Button. Stop Playback.
14	PLAY	Start playing back.
15	SEARCH	Enter search menu screen, use Up/ Down button to navigate Press ENTER to access selected item
16	ESC/ BACKUP	Exit various functions and menu screen Video data storage backup
17	ENTER/ MODE (MODE)	Switch to full screen and quad screen.
18	MENU/ PAUSE (MENU/■)	Enter menu mode, use Up/ Down button to navigate menu screen. Press to pause playback
19	MUTE	Switch to 1-CH Audio Out/ Turn Off Live Audio.
20	AUTO	Enable auto mode, to skip channels. Press MENU to disable auto mode.
21	FREEZE	Turn On/ Off Live Display FREEZE Function. Turn On/ Off Screen FREEZE Function.
22	ZOOM	Enable/ Disable double screen size display. Press ENTER to switch channels.
23	STATUS	Display Status.
24	PIP	Turn on picture-in-picture format, use Up/ Down button to navigate. Press ENTER to access selected item.
25	MULTI	This button is used to toggle between multiple display modes: 16, 13, 10, 9 and 4 channel split screen display modes.














3.2 Real Panel Connectors



Item		Description
1	AUDIO OUT	RCA output port for an audio signal
2	AUDIO IN	RCA input port for an audio signal
3	MAIN MONITOR	BNC port for the main monitor.
4	VIDEO IN	BNC input ports for cameras, 4 in total.
5	VGA	Output port for the VGA monitor (option).
6	NTSC/ PAL SWITCH	Switch between NTSC and PAL format.
7	SPOT MONITOR	BNC port to display full screen image of all installed cameras in sequence.
8	E-SATA	External SATA Interface.
9	LAN	Network port.
10	RS485/ RELAY/ IR/ SENSOR	External input and output.
11	EXTERNAL I/O	EXTERNAL I/O port (For more information, please refer to the Appendix).
12	DC 12V	Socket for a DC 12V input.

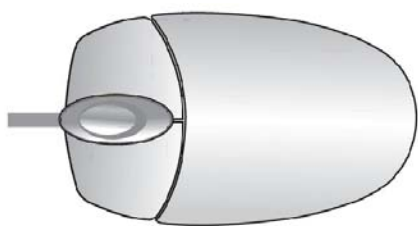
3.3 Remote Controller



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 Mouse Control



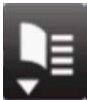







Live Mode











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

Graphic Icons

	<p>Resting the cursor on this icon will bring up the four (Main Menu/ Search/ Backup/ PTZ) menu icons.</p> <div>     </div>
	Turn On/Off recording.
	PLAYBACK
	Resting the cursor on this icon will bring up five (PAUSE/ PIP/ ZOOM/ AUTO SEQ/ LOCK) display icons.

	    
	Full screen display, multiple clicking to switch channels
	Quad display.
	Resting the cursor on this icon will bring up the four (Main Menu/ Search/ Backup/ PTZ) menu icons.
	
	









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.
	Recording is on

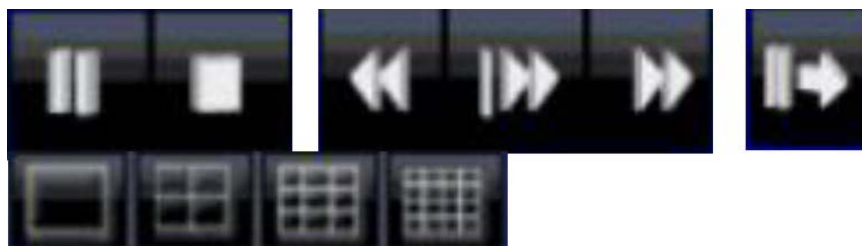
3.4.1 Network Control


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

3.5 Playback Mode




Under the LIVE mode, the graphical icon [] will show up on the upper center of the screen and the operation panel (see below picture) will show up at right lower corner of the screen. You can drag the panel by mouse to place it on any location of your screen.

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
	9-Split display
	16-Split 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.

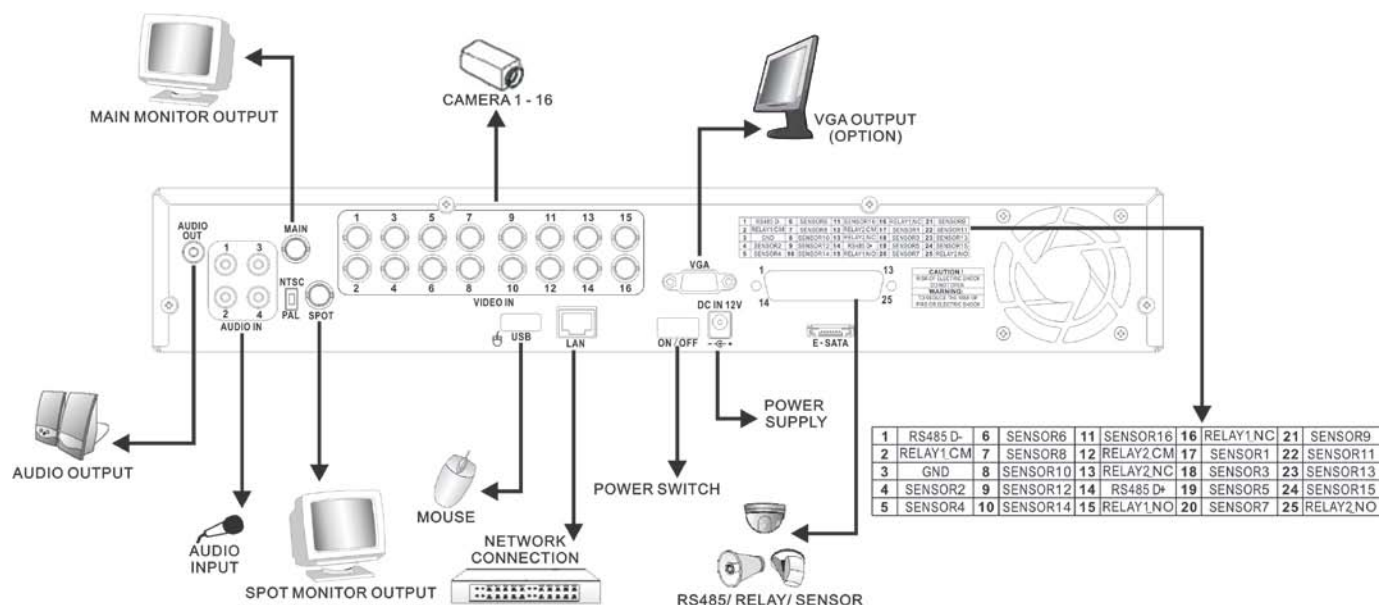
PIP	Set current PTZ location as the start of the line-scan.
FREEZE	Activate line-scan.

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 closes.
Below functions needs support from specific PTZ. Please check the user manual of your PTZ manufacturer for detail.	
	AUX 1. [AUTO] + 「1」

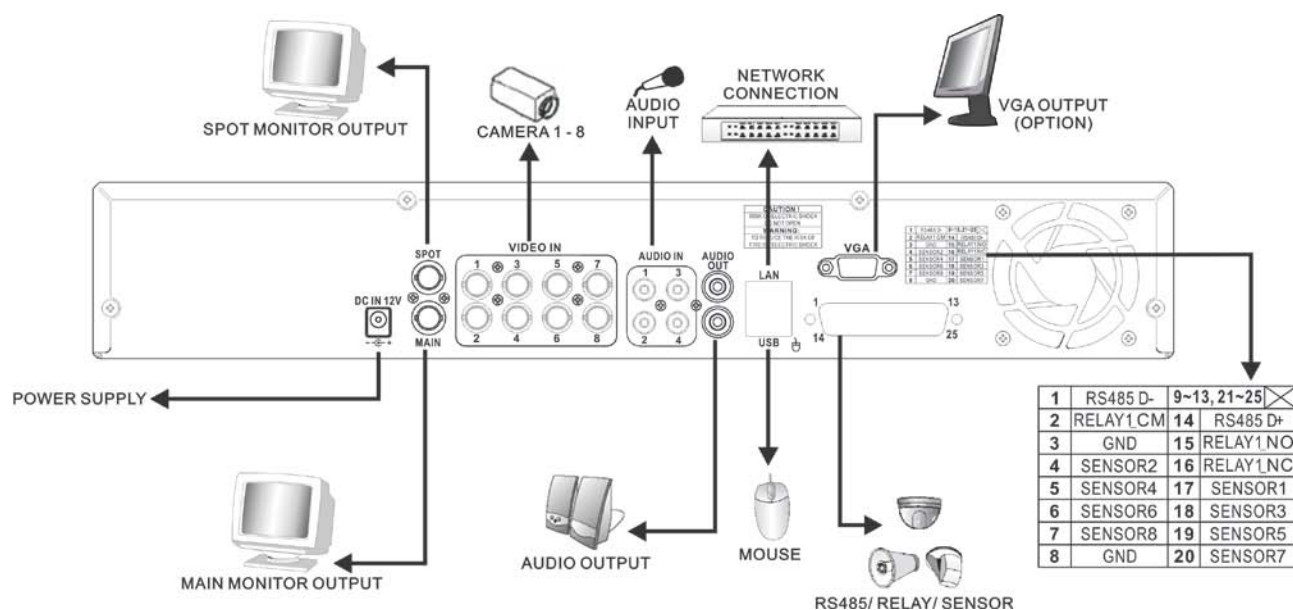
	AUX 2. [AUTO] + 「2」
	AUX 3. [AUTO] + 「3」
	AUX 4. [AUTO] + 「4」
	AUX 5. [AUTO] + 「5」
	AUX 6. [AUTO] + 「6」
	AUX 7. [AUTO] + 「7」
	AUX 8. [AUTO] + 「8」
	[Backup] icon, click to customized function.

Chapter 4 INSTALLATION

4.1 System Configuration – 16ch



4.2 System Configuration – 8ch



4.3 Hard Disk Installation

First, remove the HDD holder from the DVR machine. (Pic 1)。



(Pic 1)



Lock the HDD holder symmetrically onto both sides of the HDD. (Pic 2, Pic 3)



(Pic 2)



(Pic 3)

Insert the SATA cable and power cable onto the SATA HDD. (Pic 4)



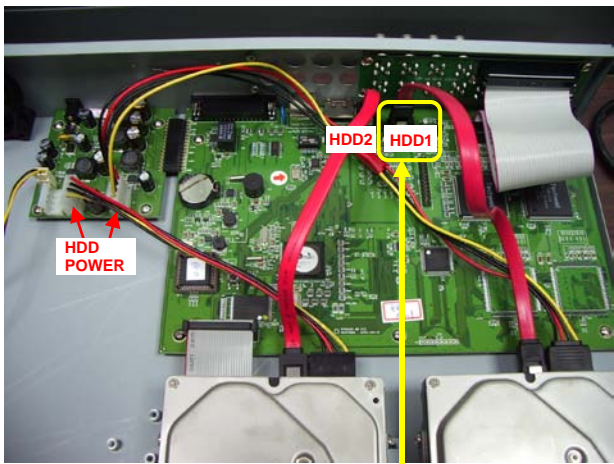
(Pic 4)

Lock the HDDs onto the DVR machine. (Pic 5)。



(Pic 5)

Insert the SATA cables into the sockets on the main board (Pic 6). Make sure the HDD1 cable insert into HDD1 socket. Now, the installation was finished (Pic 7).



(Pic 6) HDD1

HDD2
or
DVD BUNNER HDD1 HDD0

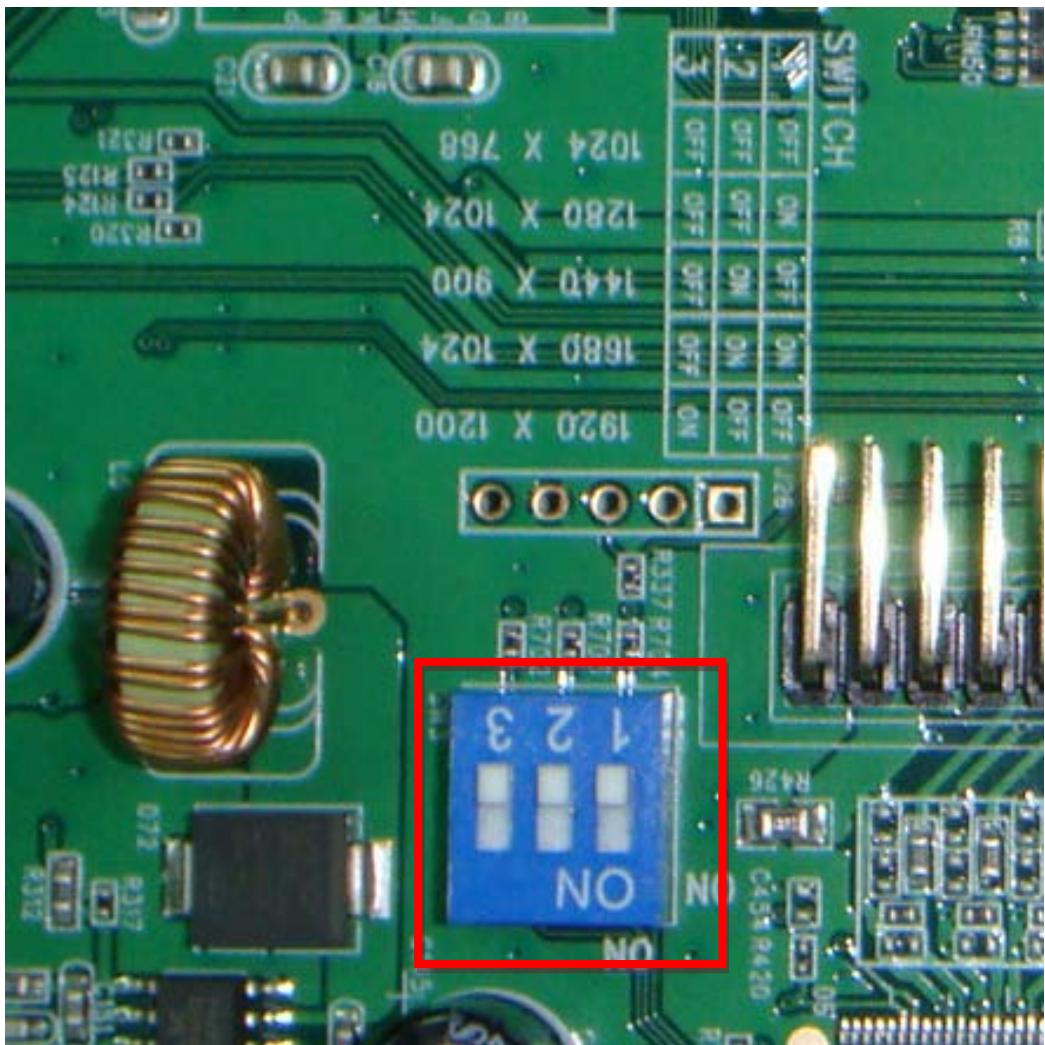
(Pic 7)

Notes for HDD-Installation:

1. Please be sure that all cables are really fixed with the hdd. If they are connected wrong, the hdd could be damaged and the dvr won't detect the installed HDD.
2. After booting up the dvr, you have to format the HDD first. You can check in the Status-Menu if the hard drive is working properly.

4.3.1 Switch display resolution

Open the DVR housing and 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

◀ ▶	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



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
Resolution	Choose record resolution, this value will be used by all channels.
Record Type	You can setup quality and FPS separately for record type.
No.	Check/ uncheck the box will enable/ disable recording of that channel.
Quality	Choose from Lowest/ Low/ Normal/ High/ Highest.
FPS	Choose recording frame rate.

5.3 Event Setup



Item	Description
Alarm Duration (Seconds)	Set up alarm duration in seconds (can not be set to 0 seconds). Drag the white bar or press ◀ ▶ to adjust value.
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

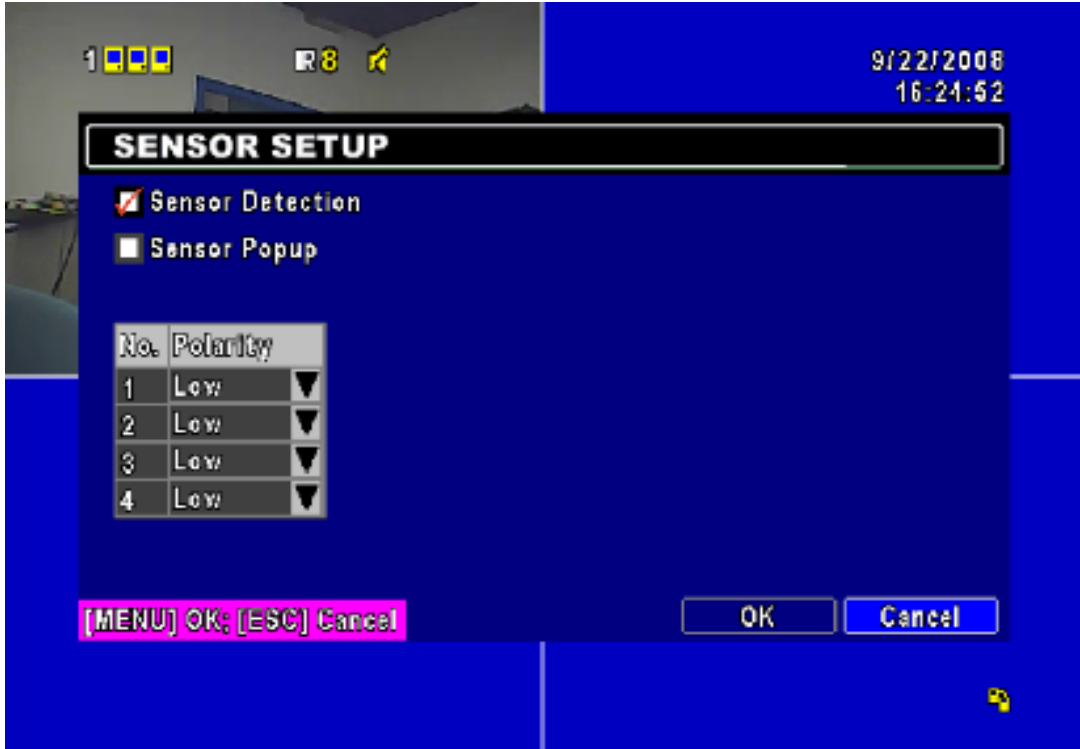
5.3.1.1 Motion Area Setup



There are 16x12 partitions in motion detection area. Under initializing status, motion detection area is in the entire screen. Transparent 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
Sensor Detection	Check the box to Enable/Disable sensor detection for all channels.
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. 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.

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.

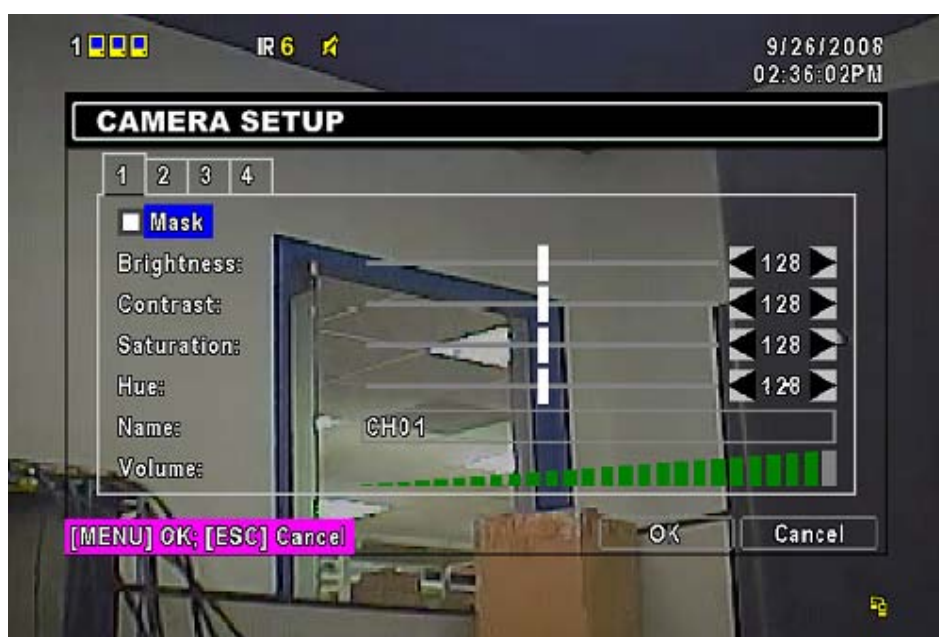
Item	Description
Enable Schedule Record	Enables schedule recording according to the time schedule (shown above).
Enable Schedule Motion Detect	Enables schedule motion detection recording according to the time schedule (shown above).
Enable Schedule Sensor Trigger	Enables schedule sensor trigger recording 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 5 6 7 8 9 10 11 12 13 14 15 16</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

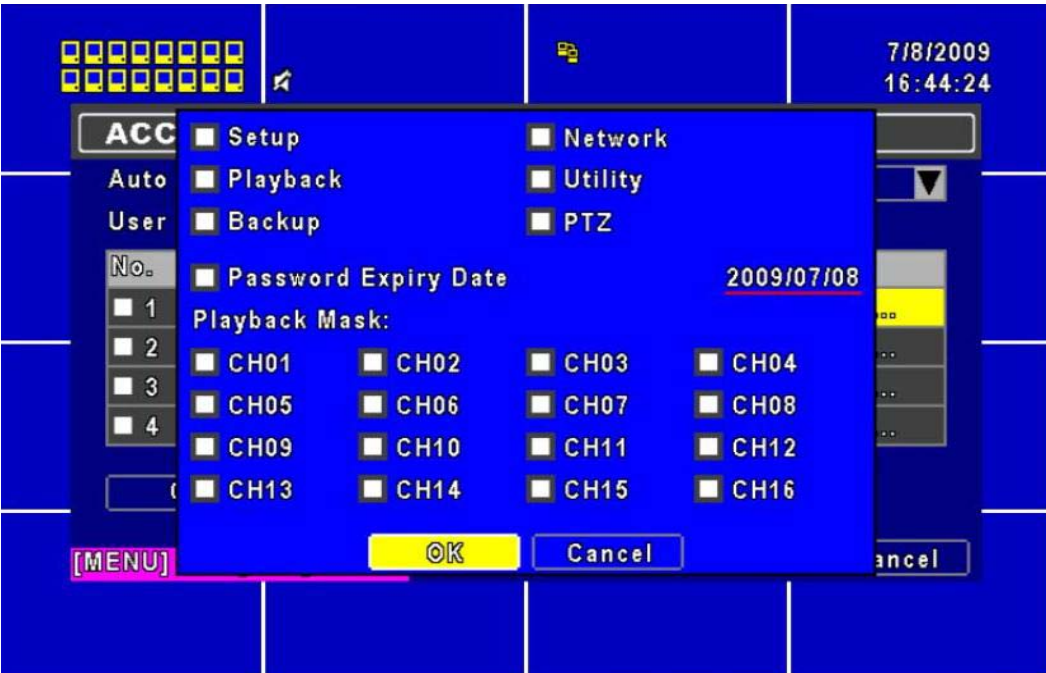


The Account Setup menu is used to provide role-based permission independently for each user (maximum of 4 users) to access the DVR over network. The default admin account is [admin] and password is "123456".

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.

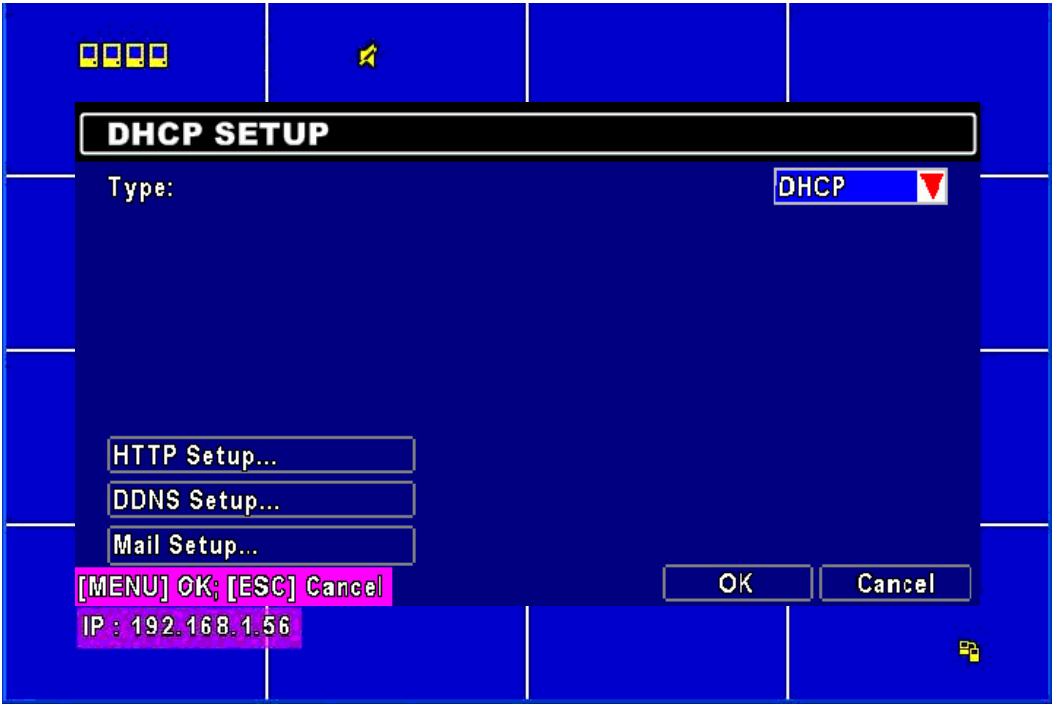
CAUTION: If you've forgotten the password, you have to send the dvr back to Lupus-Electronics in order to be resetted.

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

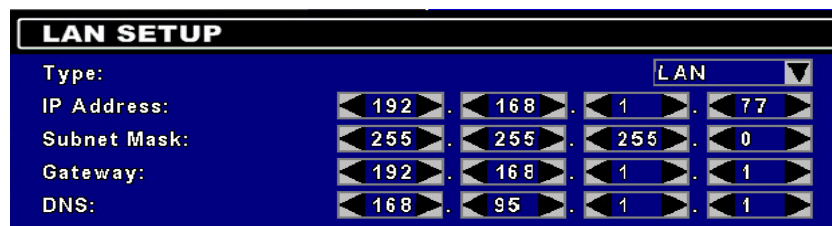
The DVR supports DHCP, LAN and ADSL access for network connection.

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.

ADSL SETUP

Applications Setup...

Type:ADSL

User Name:

Password:

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

5.7.2 HTTP Setup

1 9/26/2008 03:08:02PM

IR 6

HTTP SETUP

☒ Enable HTTP Server

Port:80

(MENU) OK [ESC] Cancel

OK Cancel

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).
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.	

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

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. The supported protocol are PELCO-P , PELCO-D , and KND
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

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	○	✕
	Disable	✕	✕
Display Setup	Enter to set up Display		
Date/Time Setup	Enter to set up Date/Time		
Buzzer & Relay Setup	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

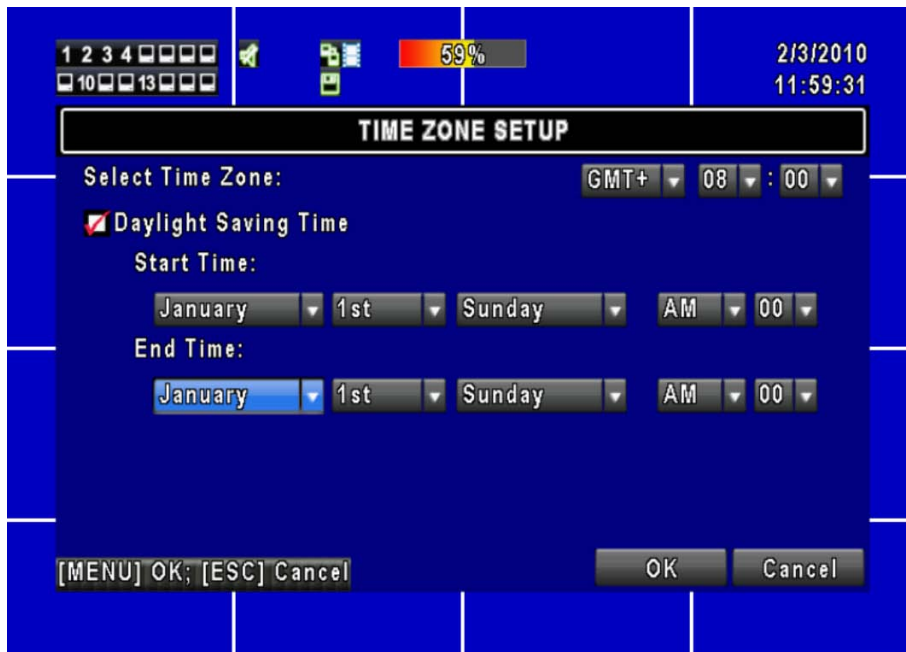


Item	Description
Hour Format	12HOURS/ 24HOURS
Date Format	MM-DD-YY/DD-MM-YY/YY-MM-DD
Date/Time Position	Choose the position of Time and Date display
Change Date & Time	Setup time and date of DVR
Time Zone Setup	Set up GMT and Daylight Saving Time.
Internet Time Setup	Setup automatic synchronization with internet server

5.9.2.1 Change Date & Time

Users are allowed to setup date and time of the DVR.

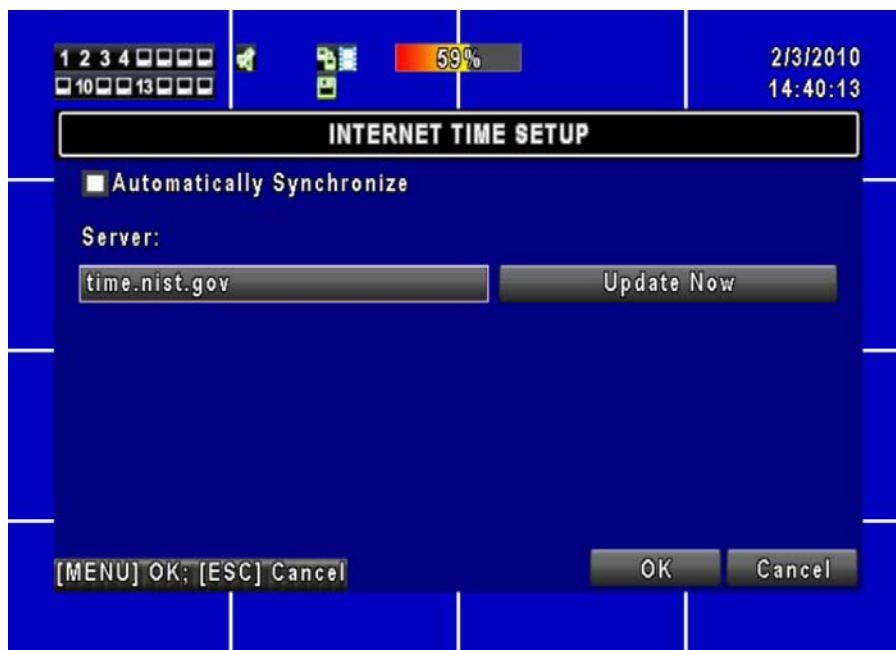
5.9.2.2 Time Zone Setup



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

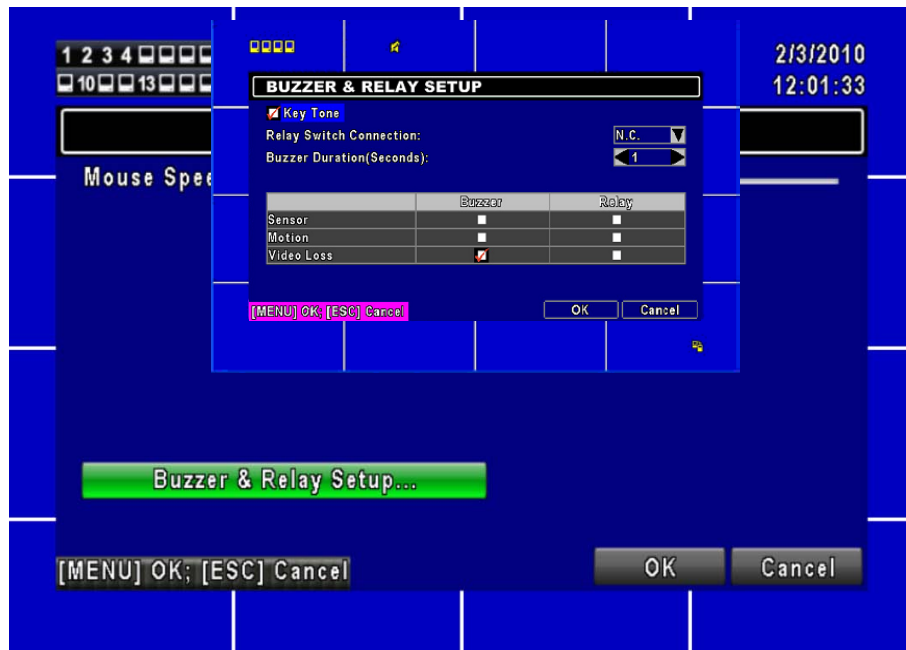
5.9.2.3 Internet Time Setup



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 Buzzer & Relay 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
Auto-Seq. Interval (Seconds)	The duration interval time between channels is in seconds under SPOT mode (1~999 seconds).
Skip Video Loss Channel	Whether to skip channels without video signal.
Channels	Select which channels will be displayed in the sequence.

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. USING 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: VLOSS : Video Loss MOTION : Motion Detected SENSOR : Sensor Detected REMOTE IN : User log-in over the network REMOTE OUT : User log-out over the network POWER ON : System Rebooting KEY LOCK : System key is locked KEY UNLOCK : System key is unlocked HDD FULL : HDD is FULL
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

6.2.1 USB Flash Drive

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 “DVRemoteDesktop.exe” or “CMS”.

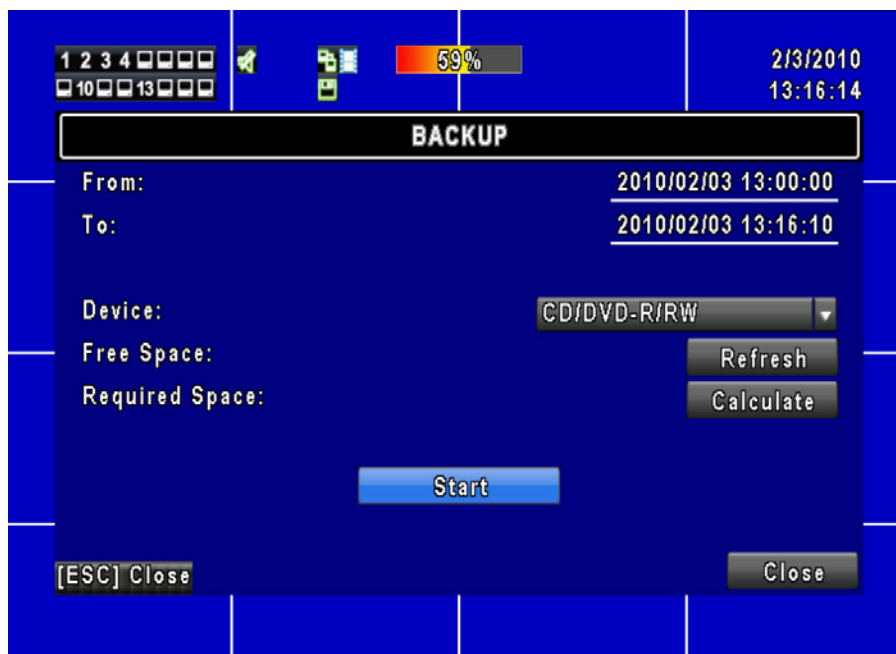


Item	Description
From	Backup file starting time
To	Backup file ending time
Device	Select USB as the backup device
Free Space	The available space in your backup device
Refresh	Recalculate the available space of backup device
Required Space	Calculate the required size of backup file
Calculate	Calculate 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.

6.2.2 CD/DVD-R/RW

User can back-up any segment of recorded data in a specified time frame using USB, CD, or DVD-R/RW. To do so, for example using an USB, connect a USB flash driver to the DVR. The format of backup file is *IRF* file and a file player is also saved in the USB driver.



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 CD/DVD-R/RW
Refresh	Recalculate the available space of backup device
Required Space	Calculate the required size of backup file
Calculate	Calculate the size of backup file
Start	Start backup operation. Be sure to calculate the size of backup file BEFORE operating backup.

Chapter 7 SPECIFICATION

VIDEO	VIDEO SYSTEM		NTSC / PAL Selectable
	INPUT		16CH/ 8CH, BNC
	LOOP		N/A
	VIDEO OUTPUT		1CH, BNC
	SOPT OUTPUT		1CH, BNC
	VGA OUTPUT		Optional
AUDIO	INPUT		4CH, RCA
	OUTPUT		1CH, RCA
TERMINAL	SENSOR		16 or 8 Inputs / 1 Outputs
	RS-485 INTERFACE		Pan / Tilt / Zoom camera
CONTROL	MOUSE		USB Mouse
	IR CONTROLLER		YES
STORAGE	DEVICE		Support 2 internal SATA and 1 external SATA
	DVD WRITER		YES
DISPLAY	DIVISION		1,4, 9, 16
	ZOOM		2X
	OSD		Graphic OSD
RECORDING	COMPRESSION		H.264
	RESOLUTION		720x480, 720x240, 360x240 (NTSC) 720x576, 720x288, 360x288 (PAL)
	FRAMERATE	NTSC	120, 240, 400 FPS (LE816) / 60, 120, 240 FPS (LE808)
		PAL	100, 200, 400FPS / 50, 100, 200FPS (LE808)
	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
			22X15 (sensitivity 0~10)
	PRE-ALARM		16 MB
	POST-ALARM		16 MB
PLAYBACK	SEARCH MODE		Time, Event
	SPEED		Normal, REW&FF [2x/4x/8x/16x/32x/64x], Picture to Picture, Pause
	INTERNAL		HDD

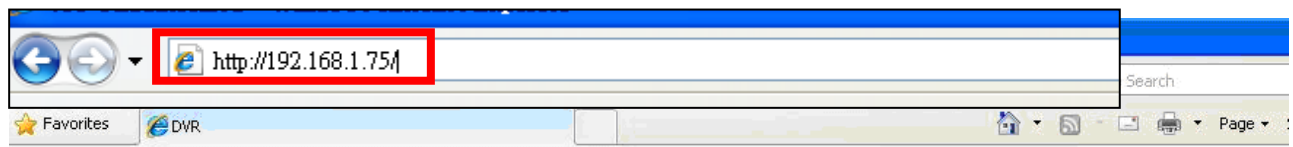
NETWORK	COMPRESSION	H.264
	INTERFACE	Internet Explorer / CMS / 3G Mobile Phone
	SERVICE	TCP/IP, SMTP, HTTP, DHCP, DDNS, PPPoE
BACKUP	INTERNAL	DVD writer optional
	EXTERNAL	2 x USB 2.0: USB Flash Driver
	NETWORK	YES
	BACKUP FILE	H.264 compression
SYSTEM LOG	MODE	Network Connection , Power On, Key Lock, Key Unlock, HDD full
MONITORING		Software Watchdog
RECOVERY		Auto-Reboot By Watchdog
FIRMWARE UPGRADE		USB 2.0 Port
MULTI-LANGUAGE		English / Chinese / Greek / Italian / Japanese / Portuguese / Spanish / German /French / Russian
DIMENSION		430mm (W) x 70mm (H) x 360mm (D)
POWER SOURCE		DC 12V

Chapter 8 NETWORK SURVEILLANCE

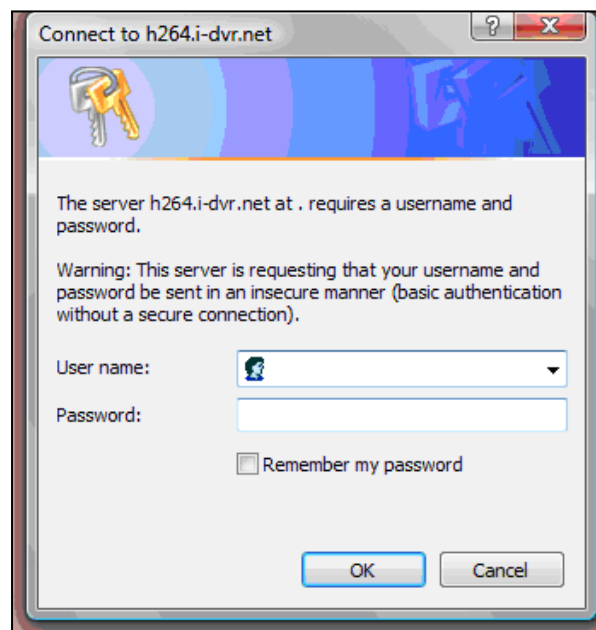
AP software: 「DVR Remote Desktop」 can allow you to remotely access and control the DVR from the PC.

8.1 AP Software Installation and Setup

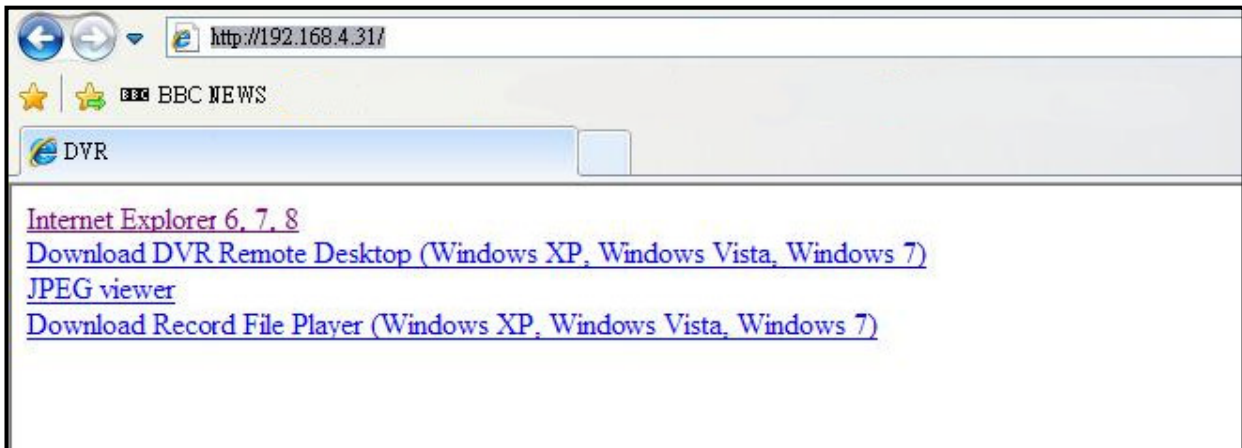
Step 1 : Enter the IP address of the DVR in the IE browser.



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 section on “**Account Setup**”.



Step 3: Remote connection option appears.



Internet Explorer 6, 7, 8:

Precede connection using Microsoft Internet Explorer.

Download DVR Remote Desktop (Windows XP, Windows Vista, Windows 7):

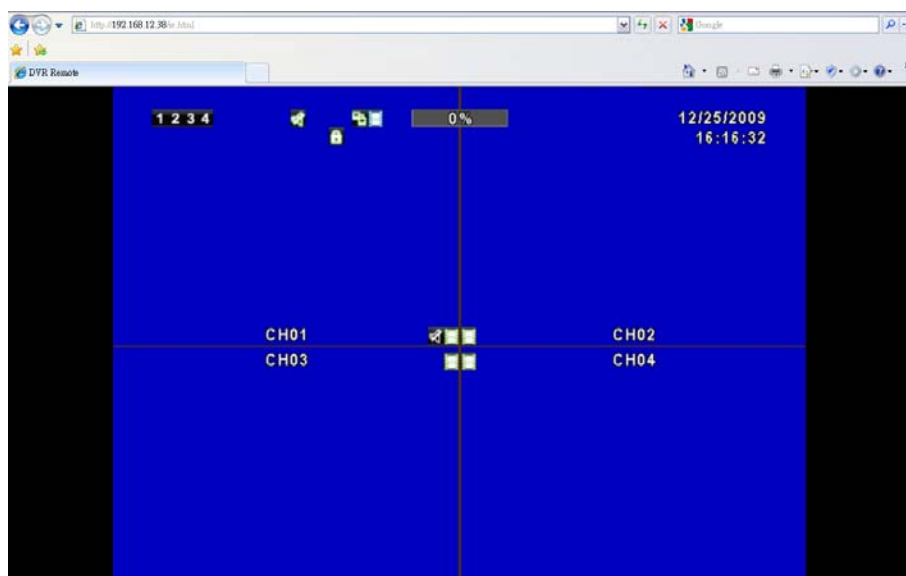
Continue connection operation by downloading the software and install it to the PC.

JPEG viewer: Applies only to LIVE connection monitoring.

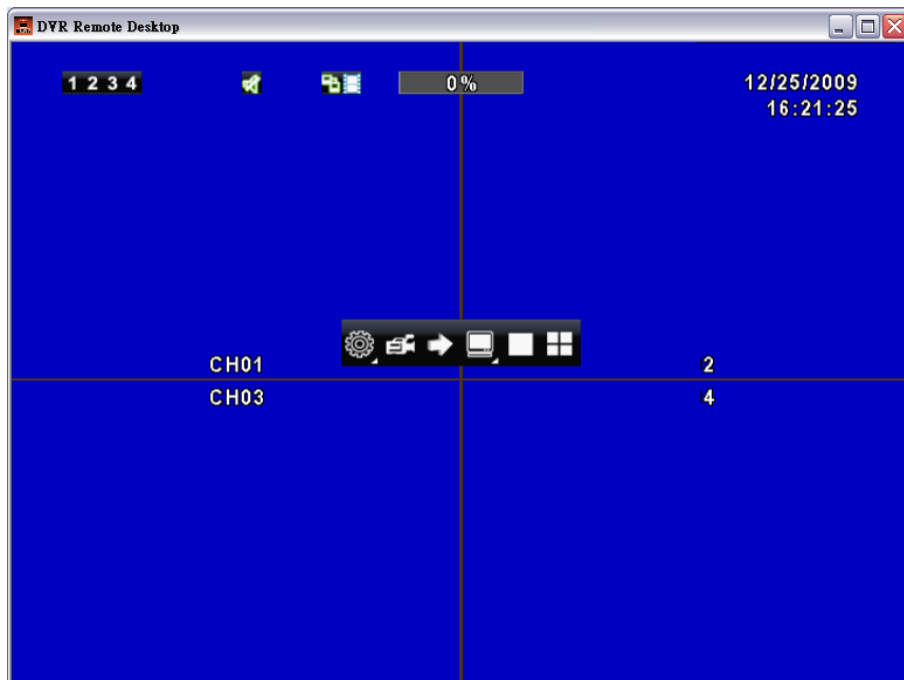
Download Record File Player (Windows XP, Windows Vista, Windows 7):

Download software to backup playback files.

Step 3: You've logged into the DVR



Internet Explorer



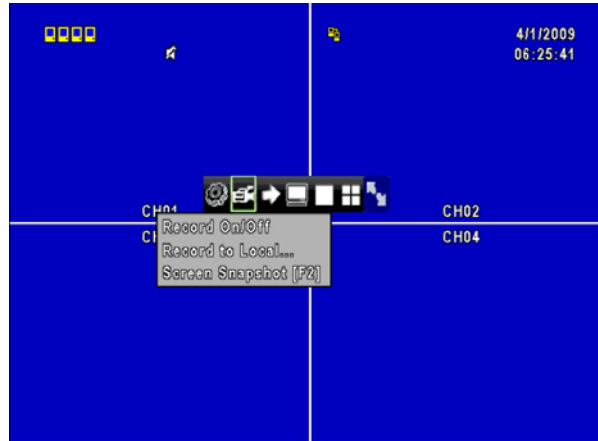
Software Application

8.2 AP Software Operation

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

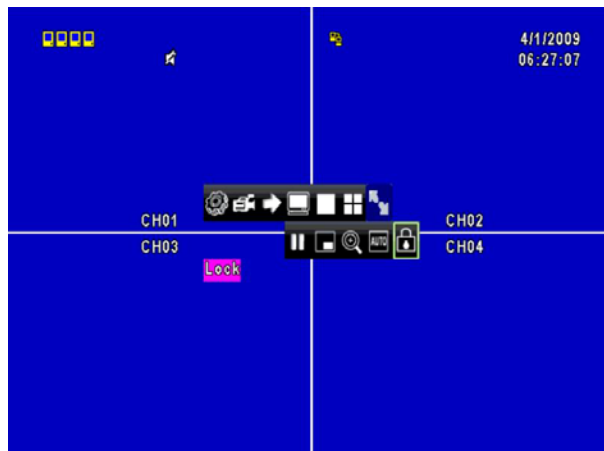


8.2.1 Remote Record



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



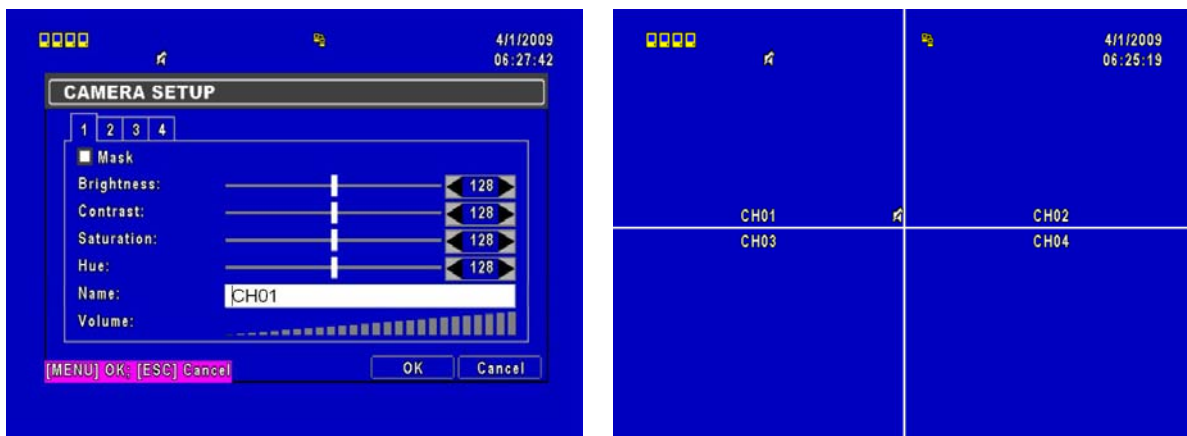
Click Lock icon to lock remote-site function and to unlock, account and password must be entered all over again.

8.2.3 Full Screen



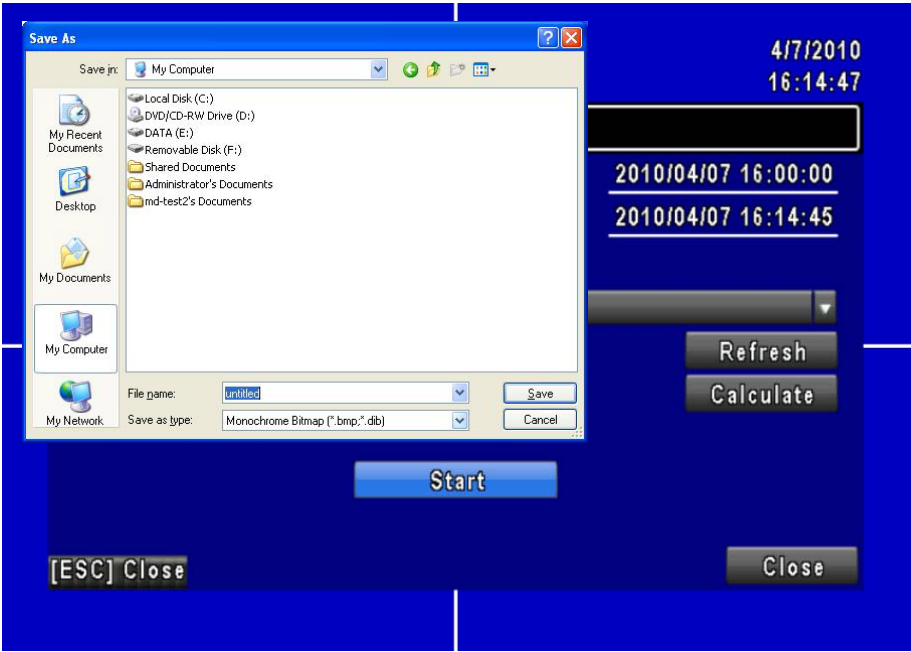
Click Full Screen icon to enlarge the screen to full screen display.

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



You need to select a folder location on the PC for remote backup purposes.

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.

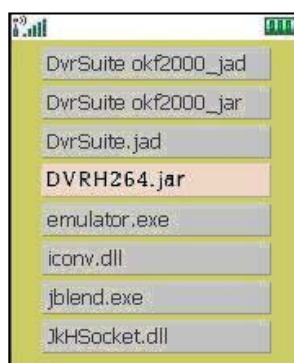
Mobile device that supports GPRS/ 3G protocol and Java cldc1.0/midp 2.0 environment.

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/800/>.

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.

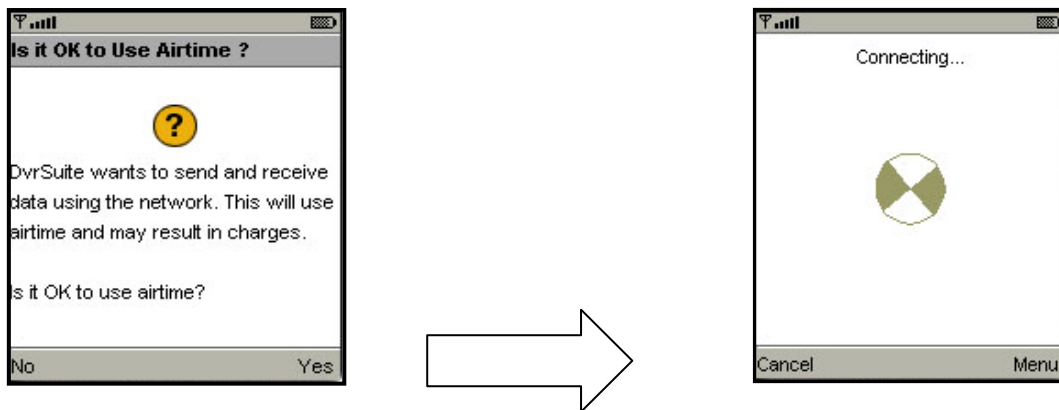


1.2.2 Logging onto the DVR

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.

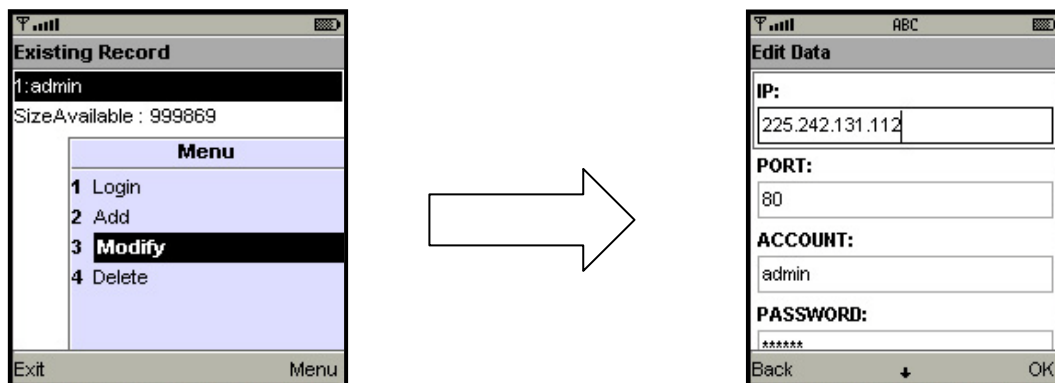
Network connectivity will take some time. It will be affected by networking environment and bandwidth flow. Live image will show up after a successful connection.



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

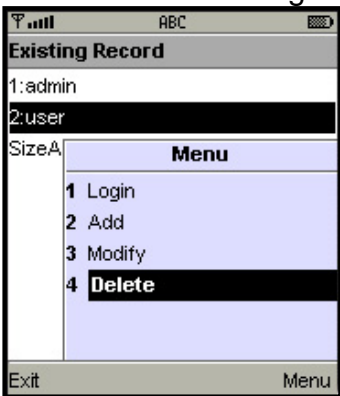
1.2.3 Modify the Login Information of the DVR

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.

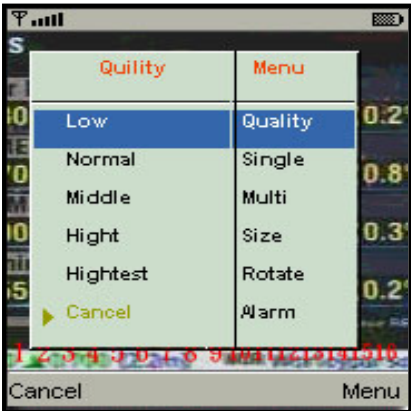
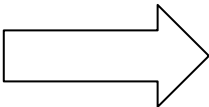
1.3.1 Scroll the Image

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

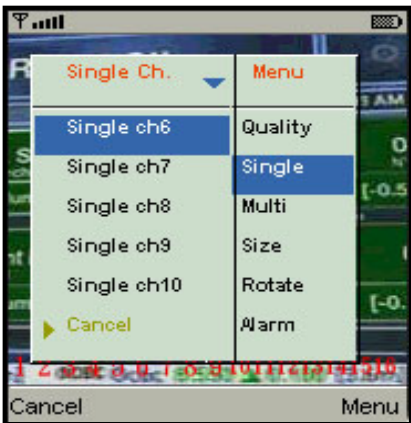
1.3.2 Image Quality Setup

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



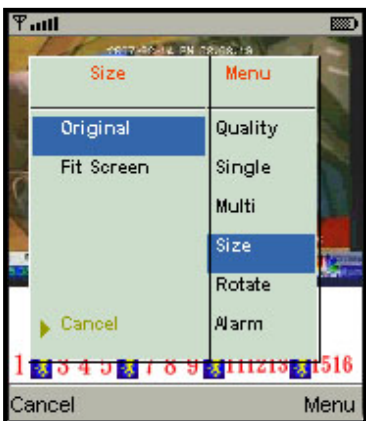
1.3.3 Channel Display

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.*

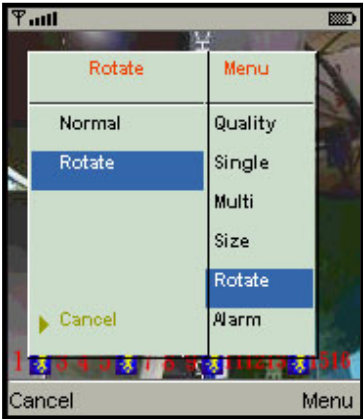
1.3.4 Size of Image



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.

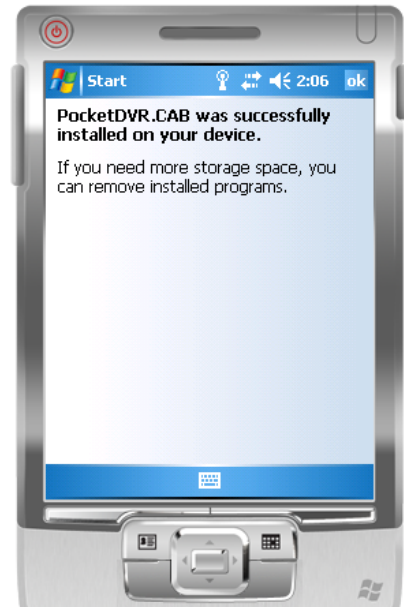
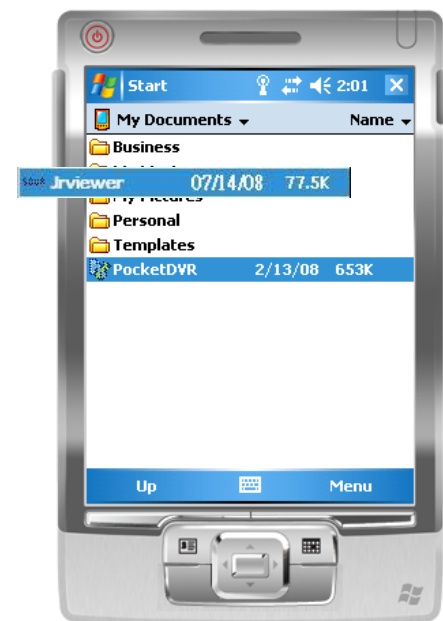
Mobile device need to support internet: GPRS / 3G / Wifi... etc.

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/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.



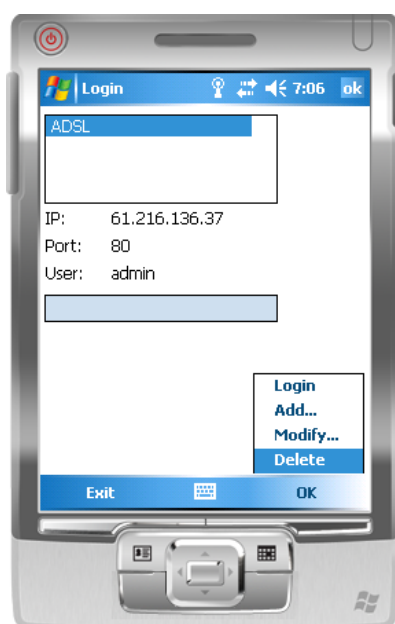
2.2 Mobile Application Operation

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	<ul style="list-style-type: none"> ·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:

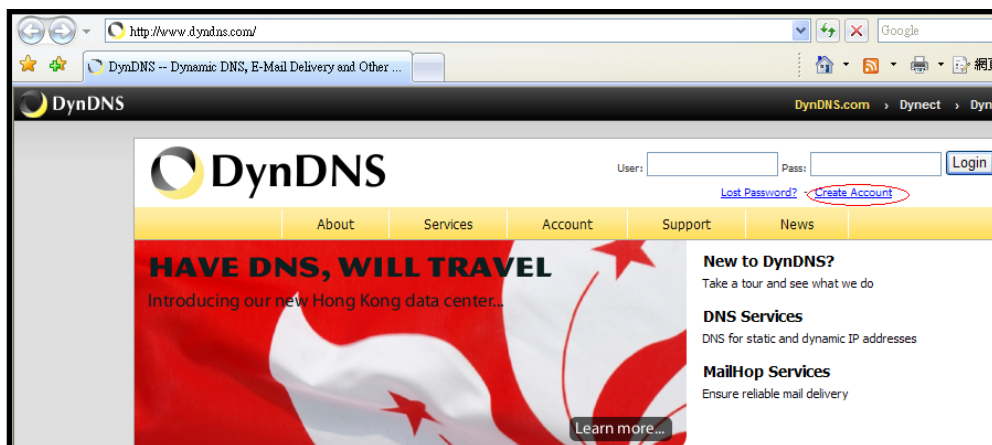
- a. Router and Rekorder have to be connected correctly
- b. Rekorder and camera are already accessible over the internal network connection
- c. Networkaddress-configuration is made via DHCP (if not, please change the settings within your router to DHCP)

If you want to connect to 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.

1. Open the configuration panel of your router
Often it ist he internal ip-adress: <http://192.168.2.1> which has to be entered in your 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 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

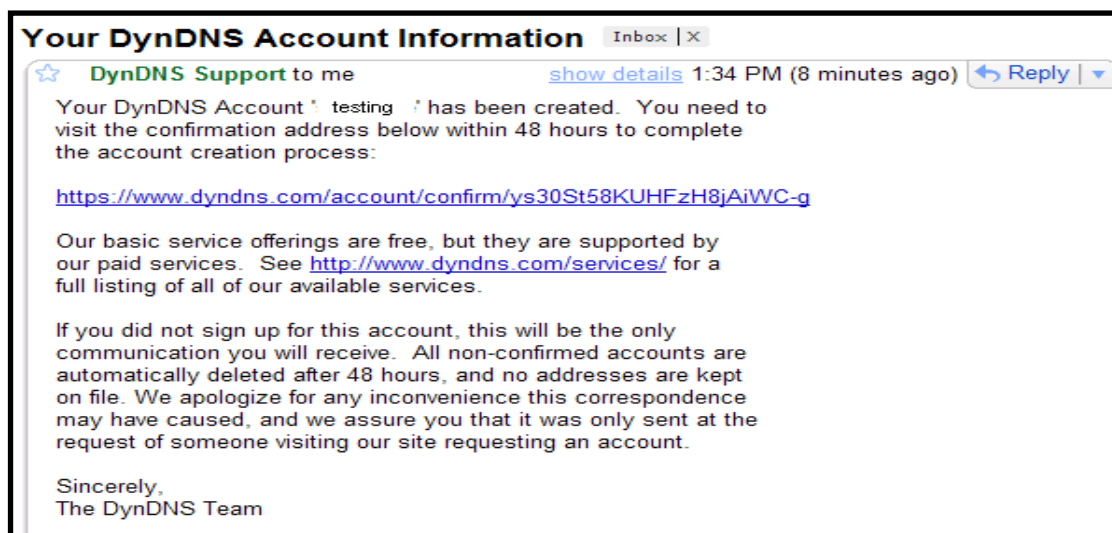
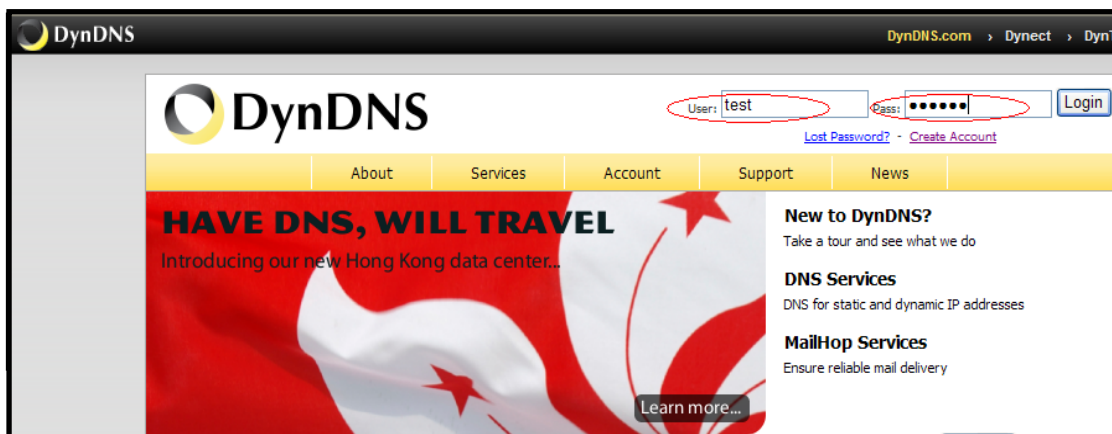
I agree to the AUP: ☐

Next Step

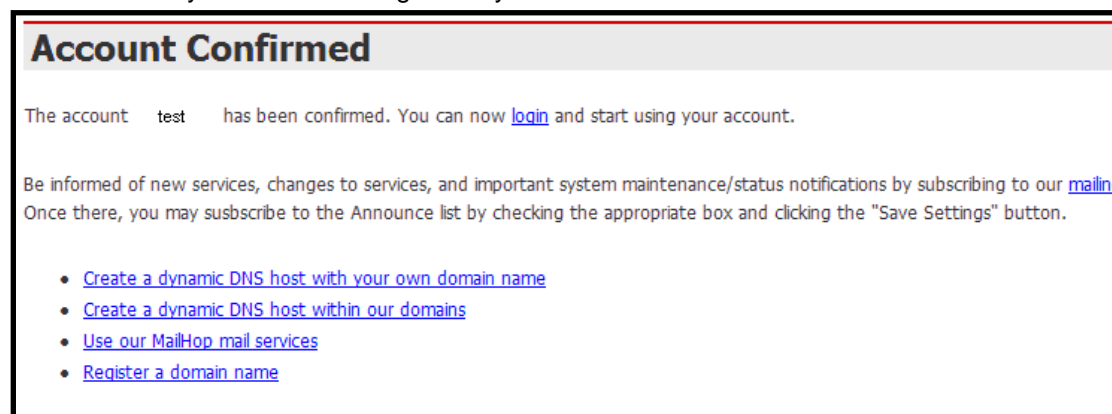
After you click "Create Account", we will create your account and send you an e-mail to the address you provided. Please follow the instructions in that e-mail to confirm your account. You will need to confirm your account within 48 hours or we will automatically delete your account. (This helps prevent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

13. Please click “Dynamic DNS” icon.

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 "New Dynamic Host" form. The form includes fields for Hostname, Service Type, IP Address, and Mail Routing. The "Get Started" button is highlighted with a red circle.

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:** Three radio buttons are present: "Host with IP address" (selected), "WebHop Redirect", and "Offline Hostname".
- IP Address:** A text input field contains "219.87.138.195" (circled in red). Below the field, there is a link "Use auto detected IP address 219.87.138.195." and a note "TTL value is 60 seconds. [Edit TTL.](#)"
- Mail Routing:** A checkbox labeled "Yes, let me configure Email routing." is present.

At the bottom right of the form, there is a "Create Host" button (circled in red).

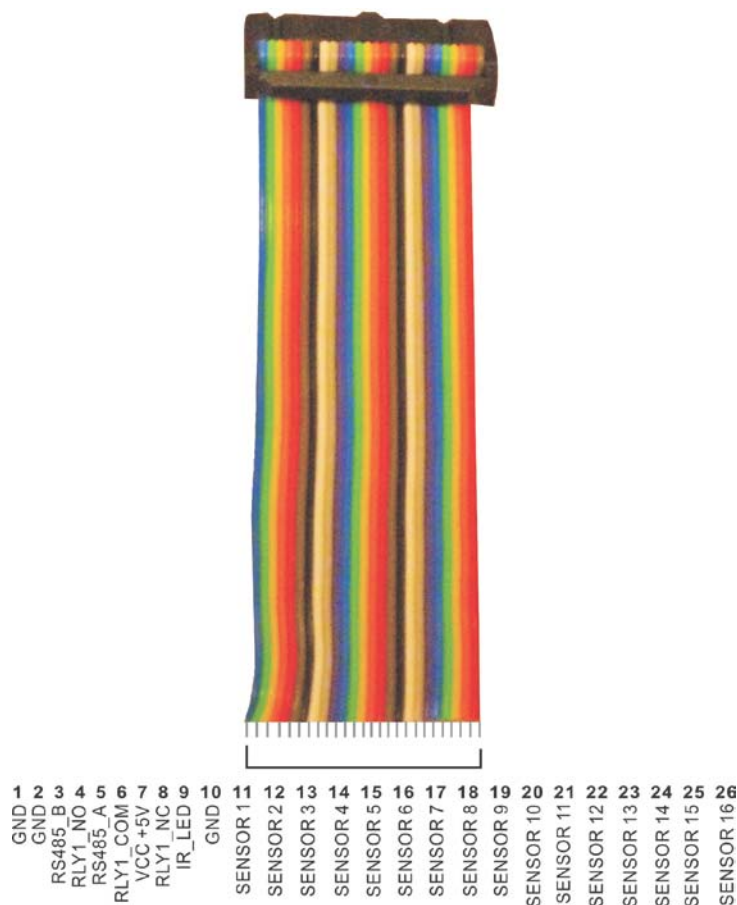
16. Below shows that you have created the host name. You will be connected to the corresponding IP address whenever you enter this host name.

☐ 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>

APPENDIX I - DB 26 DIFINITION



NUM.	WIRE	COLOR	NUM.	WIRE	COLOR
1.	GND	BLUE	14.	SENSOR 4	ORANGE
2.	GND	GREEN	15.	SENSOR 5	RED
3.	RS 485_B	YELLOW	16.	SENSOR 6	BROWN
4.	RLY1_NO	ORANGE	17.	SENSOR 7	BLACK
5.	RS485_A	RED	18.	SENSOR 8	WHITE
6.	RLY1_COM	BROWN	19.	SENSOR 9	GRAY
7.	VCC +5V	BLACK	20.	SENSOR 10	AMETHYST
8.	RLY1_NC	WHITE	21.	SENSOR 11	BLUE
9.	IR_LED	GRAY	22.	SENSOR 12	GREEN
10.	GND	AMETHYST	23.	SENSOR 13	YELLOW
11.	SENSOR 1	BLUE	24.	SENSOR 14	ORANGE
12.	SENSOR 2	GREEN	25.	SENSOR 15	RED
13.	SENSOR 3	YELLOW	26.	SENSOR 16	BROWN

- Note: 1. Function Pin Num.9 allows extending IR receiver wire.**
2. Function Pin Num. 19~26 is inapplicable to 8CH DVR.

APPENDIX II - COMPATIBILITY LIST

1. System Requirement for Network Surveillance

CPU: Intel Pentium 4 and above.

O/S: Microsoft Windows Vista, Windows XP, Windows 2003 Server.

RAM: 512MB memory and above.

Display Card: (others are not guaranteed).

BRAND	CHIPS
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
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2. Mobile Brand Supported

OPERATION SYSTEM	SYSTEM REQUIREMENT	BRAND
Windows Mobile	Your mobile service provider must support GPRS or 3G. Mobile phone must support Windows Mobile 5.0 above.	HP iPAQ 612C GSmart MS800 Dopod 585 Dopod CHT9100 Dell X50V ASUS
Symbian	Your mobile service provider must support GPRS or 3G. Mobile phone must support GPRS or 3G and Java cldc 1.0/midp 2.0 environment.	Nokia N9X Nokia N73 Sony Ericsson K618i Sony Ericsson K750i Sony Ericsson S700 Sony Ericsson W810i Samsung S5230
Blackberry	Your mobile service provider must support GPRS or 3G	Blackberry
iPhone		3G, 3Gs, 4G

<Note> Brand names listed above implies tested and suggested priority use, other brand unlisted does not mean it won't work.

3. Compatible USB Flash Drive

Adata C801 2G/ 4G/ 8G
 Apacer 2G (black)
 KINGMAX DataTraveler 4G
 KINGSTON DTI 512M (white)
 KINGSTON DTI 1G、4G (white)
 PNY 4G
 Pqi U230 512M (white)
 Pqi 8G (white)
 PRETEC 4G (silver)
 SanDisk U3 1G (red)
 Silicon Power 4G
 Sony 2G/ 4G
 Sony MicroVault4G (black)
 Transcend V20 2G
 Transcend V10 1G/ 4G
 Transcend V30 16G
 TOSHIBA 4G (U3)

<Note> Brand names listed above implies tested and suggested priority use, other brand unlisted does not mean that it is incompatible.

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