

# User's Manual



4-CH H.264 Digital Video Recorder

**DVR-462** 



#### **Opyright**

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#### **FCC**

This equipment has been tested and found to comply with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference
- (2) This device must accept any interference received. Including interference that may cause undesired operation.

#### CE

This equipment is in compliance with the requirements of the following regulations: EN 55022: CLASS B

### WEEE regulation



To avoid the potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment, end users of electrical and electronic equipment should understand the meaning of the crossed-out wheeled bin symbol. Do not dispose of WEEE as unsorted municipal waste and have to collect such WEEE separately.

#### **Energy Saving Note of the Device**

This power required device does not support Stand by mode operation.

For energy saving, please remove the DC-plug or push the hardware Power Switch to OFF

position to disconnect the device from the power circuit.

Without remove the DC-plug or switch off the device, the device will still consuming power from the power circuit. In the view of Saving the Energy and reduce the unnecessary power consuming, it is strongly suggested to switch off or remove the DC-plug for the device if this device is not intended to be active.

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#### Revision

User's Manual for PLANET 4-Ch H.264 Digital Video Recorder

Model: DVR-462

Rev: 2.0 (June, 2011) Part No. EM-DVR462





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.

#### 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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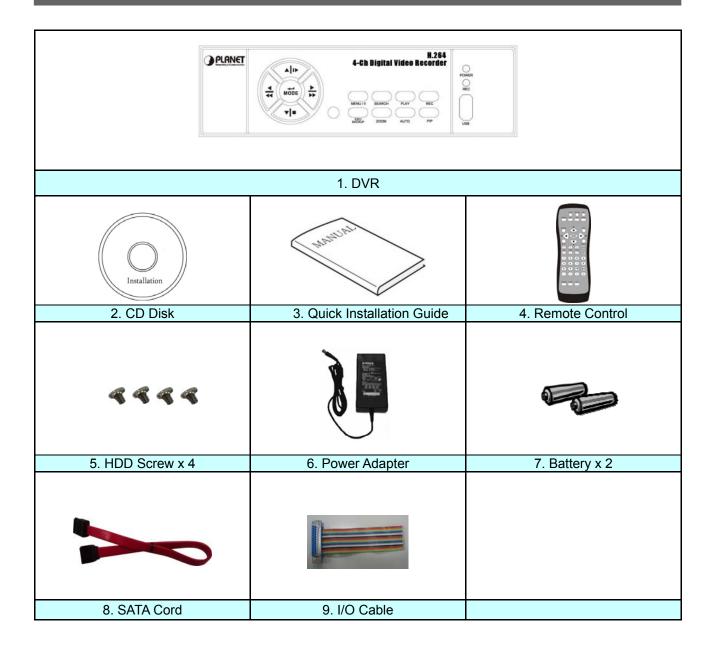
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# **Chapter 1 FEATURES**

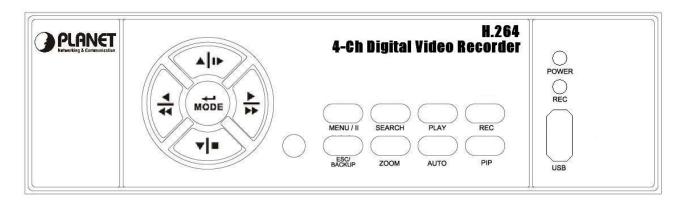
- Two USB ports (for mouse usage and backup).
- Dual streaming enhances the speed of network transmission
- Built-in VGA up to 1280x1024 resolution
- Individual setup of resolution, frame rate and video quality for each channel
- Still image snapshot
- AVI converter with time stamp
- H.264 compression 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 and DVD-RW
- 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 monitorin

# **Chapter 2 PACKING DETAIL**



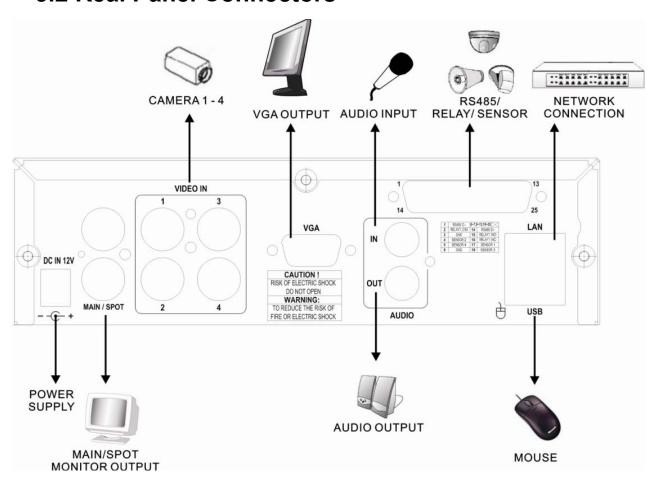
# **Chapter 3 LOCATION AND CONTROL**

## 3.1 Front Panel Controls



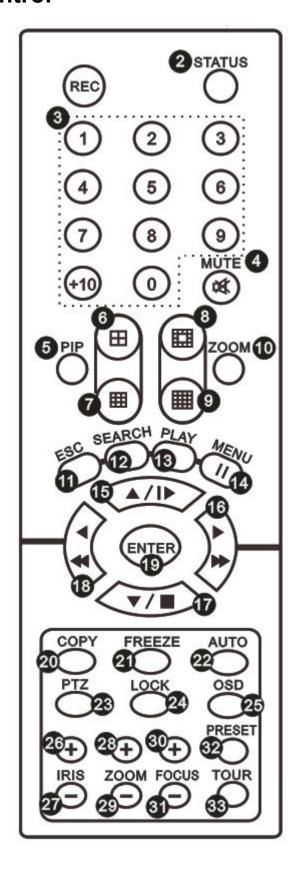
	Item	Description
1	ESC/ BACKUP	Exit various functions and menu screen Enter backup selection menu
2	SEARCH	Enter search menu screen, use Up/ Down button to navigate Press ENTER to access selected item
3	PIP	Turn on picture-in-picture format, use Up/ Down button to navigate Press ENTER to access selected 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, mouse and USB storage device.
9	REC	Start/ Stop recording.
10	PLAY	Start playing back.
11	MENU/ PAUSE	Enter menu mode, use Up/ Down button to navigate menu screen.
11	( MENU/ ■■)	Press to pause playback
12	IR SENSOR	Input sensor for the remote control.
13	RIGHT DIRECTIONAL	Right Directional Button.
13	BUTTON/ FAST (►►/►)	Fast Forward Playback, Speed: 2x, 4x, 8x, 16x, 32x, 64x.
14	UP DIRECTIONAL	Up Directional Button.
14	BUTTON/ SLOW (▲ / I►)	Slow Forward Playback, Speed: 1/2x, 1/4x, 1/8x, 1/16x.
15	DOWN DIRECTIONAL	Down Directional Button.
15	BUTTON/ STOP (▼ / ■ )	Stop Playback.
16	LEFT DIRECTIONAL	Left Directional Button.
10	BUTTON/ REWIND (◀ /◀◀ )	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



	Item	Description
1	DC 12V	Socket for a DC 12V power input.
2	MAIN / SPOT MONITOR	BNC port for the main monitor connected and display full screen image of all
	2 IMAIN / SPUT MUNITUR	installed cameras in sequence.
3	VIDEO IN	BNC input ports for cameras, 4 in total.
4		Connect your PC monitor to this connector. If the MAIN port is connected,
	VGA	VGA port will lost function. You have to choose the VGA or MAIN for
		monitoring.
5	AUDIO IN	RCA input port for an audio signal.
6	AUDIO OUT	RCA output port for an audio signal.
7	EXTERNAL I/O	EXTERNAL I/O port
8	LAN	Network port. Connect to your switch or PC directly.
9	USB	Connect your USB mouse to control this DVR.

## 3.3 Remote Control



Remote Controller –	Button Definition
① REC	Start/ Stop Recording.
② STATUS	Display Status.
③ CAMERA BUTTONS	Camera Select / Numeric Button.
(3) CAMILITA BOTTONS	Press [+10] button to select channels.
4 MUTE	Switch to 1-CH Audio Out/ Turn Off Live Audio.
	Enable/ Disable On Picture-In-Picture Format.
⑤ PIP	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.
	Enable/ Disable double screen size display.
① ZOOM	Use Directional button to navigate the screen display, and press Enter button to
	switch channels.
① ESC	Exit Button.
	Enter the SEARCH menu.
① SEARCH	Use Up/ Down Directional Button to navigate the menu item, press Enter button
	to enter menu item.
① 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.
ENTER/ MODE	Switch to Single Screen/ Quad Screen Display.
② COPY	Enter the COPY menu.
②1) FREEZE	Tum On/ Off Live Display FREZZE Function. Tum 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.
②S OSD	Turn On/ Off the Screen Display.
26 IRIS +	PTZ Iris-Open.

② IRIS -	PTZ Iris-Close.
②8 ZOOM +	PTZ Zoom-In.
② ZOOM -	PTZ Zoom-Out.
30 FOCUS +	PTZ Focus-In.
③1) FOCUS -	PTZ Focus-Out.
③ 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.
③ 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-Channel Display	Double left click

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

Mouse – Graphic Icons	
	Resting the cursor on this icon will bring up the four (Main Menu/ Search/
	Backup/ PTZ) menu icons.
~	MAIN MENU
	SEARCH SETUP.
	BACKUP.
	▶ PTZ CONTROL.
<u>a</u>	Turn On/Off recording.
<b>→</b>	PLAYBACK
	Resting the cursor on this icon will bring up five (PAUSE/ PIP/ ZOOM/
	AUTO SEQ/ LOCK) display icons.
	PAUSE, to pause LIVE image
	PIP, picture in picture
	ZOOM, double the screen size
	AUTO-sequence
	LOCK, activate the key lock.

	Full screen display, multiple clicking to switch channels
#	Quad display.

Mouse – GUI Hints and Tips	
	Recording is on
< 1	Number represents the current selected LIVE audio channel (available to
-\ 1	8/ 16CH DVR and option to 4CH DVR).
₹1	Live Audio is off
-\$E	Motion detected on the channel
	Sensor triggered on the channel
▣	Video loss detected on the channel
<del>• €</del> •	USB device detected
4	DVR has been connected onto the Internet.
Ð	AUTO-SEQ is on
**	FREEZE is on, screen is frozen
ĉ	LOCK is on
ଟି	PTZ control is on
99%	Shows the current hard disk space used-up (99% means that the HDD space has been used up 99%, and the remaining HDD space is 1%)
2009/12/24 15:42:33	Current time which is used when providing the conversion of AVI files is shown on the bottom lower right of each DVR screen.

# 3.5 Playback Mode

Playback – Quick Function	n Icon
44	Press 「◀◀ / ◀ 」 button to Fast Rewind
•	Speed: 2x, 4x, 8x, 16x, 32x, 64x
	Press 「►► / ► 」 button to Fast Forward
11	Speed: 2x, 4x, 8x, 16x, 32x, 64x
<b>&gt;</b> / <b>II</b>	Press 「 <b>PLAY</b> 」/ 「■■ 」 button to Play/ Pause Playback
165	「▲ / SLOW 」 slow playback
1	Speed : 1/2x, 1/4x, 1/8x
	「▼ /∎ 」stop playback
II>	Playback channel by channel with snap shot display
	Full screen display
	Quad display
	Zoom in video image
	Snap shot image

## 3.6 PTZ Mode

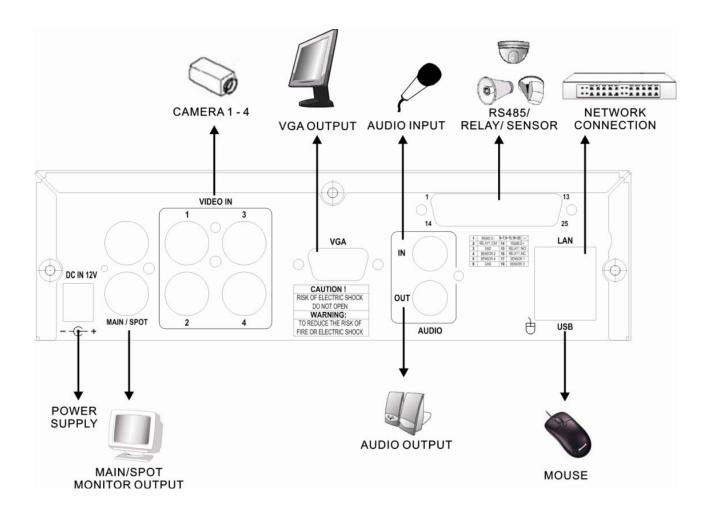
PTZ – Remote Controller Control	
▲ / SLOW	Move PTZ up.
▼ / ■	Move PTZ down.
44/4	Move PTZ to the left.
▶ / ▶	Move PTZ to the right.
ZOOM +	PTZ zoom-in.
ZOOM -	PTZ zoom-out.
FOCUS +	PTZ focus-in.
FOCUS -	PTZ focus-out.
IRIS +	PTZ iris-open.
IRIS -	PTZ iris-close.
TOUR	Activate PTZ pre-set tour. *
PRESET + 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
PLAT + NUMBER	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. *

<sup>\*:</sup> Different brands of PTZ protocol sometimes may not be 100% compatible with each other. Therefore, these functions may not be applicable.

PTZ – Quick Function Icon	
	ZOOM - FOCUS - IRIS -
×	Exit PTZ Mode and back to the LIVE mode
11 ►	Preset number N. (1~64)
	Go to preset number N.
	Set current PTZ location at preset number N.
Ú	[TOUR] icon, click to activate preset tour
=	Same as [PIP]. Set current PTZ location as the starting point of the line-scan.
44	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°
+ ZOOM -	PTZ zoom in or PTZ zoom out.
+ FOCUS -	PTZ focus in or PTZ focus out.
+ IRIS -	PTZ IRIS open or PTZ IRIS closes.

# **Chapter 4 INSTALLATION**

# 4.1 System Configuration



## 4.2 Hard Disk Installation

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



Step 2: Follow the direction to remove the upper case.





Step 3:Insert the SATA cable and power cable onto the SATA HDD



Step 4: Place the HDD on the HDD plate of the removed case and connect the power and the SATA cable.

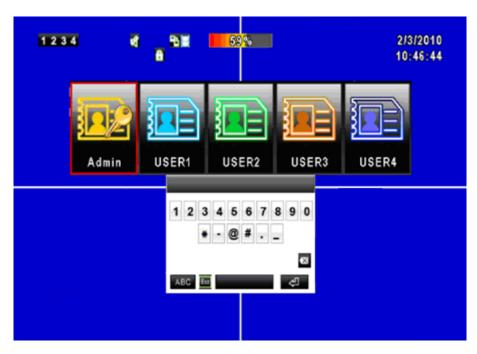


Step 5: Put back the upper case and tight the three screws.



# 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.
.?123 <sub>/</sub> ABC	Switch between numbers and letters.
Esc	Press to cancel the setup, and re-choose the login account.
€	Delete the last character.
47	Enter to identify the password. It will enter the setup menu if the password is verified.
	Space key



Main Menu – Remote Controller and Front Pannel Control (Click MENU button to enter Quick Setup Menu )	
<b>∢</b> ▶	Switch to different options under one item
▲ ▼	Switch to different items
MENU	Press to confirm setup (OK)
ESC	Press to cancel setup (CANCEL)
ENTER	Enter the menu, or display virtual keyboard

# 5.2 Record Setup



Item	Description
	Select STOP to stop recording or OVERWRITE to reuse the HDD when
	HDD is full.
HDD 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 the quality and frame rate for each channel under normal
Setup	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.

<sup>\*</sup>Number of "Auto" means the DVR processing ability. Recording data depends on "FPS".

Ex: If channel 1 to channel 8 set to 15 FPS, the sum will be 120 FPS.  $(8 \times 15 = 120)$ 

# 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
motion i opup	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 lower the sensitivity it will be
Motion Area Setup	Enter to setup motion detection area
Apply to All	Set all the channels to the same setting.

### 5.3.1.1 Motion Area Setup



There are partitions in motion detection area (22x15 blocks). Under initializing status, motion detection area is in the entire screen. Red colored area is undetected; yet the detected area is transparent.

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 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.
	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.

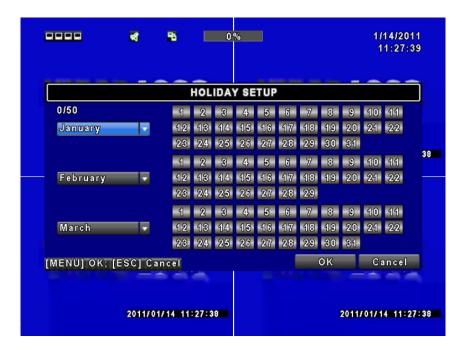
### 5.4.1 Schedule Record Setup



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
Mask	Check the box to Enable/ Disable mask function for LIVE mode
Sharpness	Drag the white bar or press ◀► to adjust Sharpness of your camera from value 0 to 15. The default value is 1.
Brightness	Drag the white bar or press ◀▶ to adjust Brightness of your camera from value 0 to 255. The default value is 128.
Contrast	Drag the white bar or press ◀ ► to adjust Contrast of your camera from value 0 to 255. The default value is 0.
Saturation	Drag the white bar or press ◀ ► to adjust Saturation of your camera from value 0 to 255. The default value is 128.
Hue	Drag the white bar or press ◀ ▶ to adjust Hue of your camera from value 0 to 255. The default value is 150. ( <b>This function is ineffective in PAL system</b> ).
Name	Set up name of each channel.
Volume	Select to adjust audio volume under LIVE mode and recording mode.

#### NOTE!

Mask function can not turn the network live image function off. Please use the Playback Mask under master account to turn it off.

## 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 Admin Password	Enter to change administrator's password.

#### 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, and 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: <b>DHCP · LAN · ADSL</b> .
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.

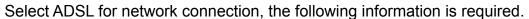
#### 5.7.1.2 LAN



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





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

#### 5.7.2 HTTP Setup



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
Host 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.
Port	Default is 80. Maximum number of port is 65535.
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 sender.
Trigger Event	Enter to select events to send out E-mail notifications when below

	circumstances happen: Motion, Sensor and Vloss (Video Loss).
Receiver E-mail	Enter to set up e-mail addresses for up to 10 receivers individually.

# 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	
RS-485 Baud Rate	Reserved.
Keyboard	

# 5.9 System Setup



Item		Description	
DVR Name	The name of DVR will	be shown when users logic	n from remote access.
DVR Location	The location of DVR w	vill be shown when users lo	gin from remote access
Language	Click or press ▼ to se	lect OSD language.	
Remote ID	Setting remote conti resrepectively to partic	roller ID to match the coular DVR.	remote code definition
Auto Lock	automatically. Auto lock of Button automatically Aut	ut any action, the DVR wan function differently accord to Lock: The front panel function panel function the pase of the pase o	ling to the setting below.  ction keys are ineffective ssword again.
Auto Lock	Setting	Auto Logout	Key Lock
	Key lock	0	0
	Key unlock	0	×
	Disable	×	×
Display Setup	Enter to set up Display	/	
Date/Time Setup	Enter to set up Date/T	ime	
Buzzer & Relay Setup	Enter to set up Buzzei	· & 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
Video System	Auto / NTSC / PAL video system setting (available to DVR-462)
CRT	Make the display more suitable for CRT monitor. (available to 16CH
	DVR)
Border Color	Set up the color of border in LIVE , PLAYBACK mode. ( black, dark grey,
	light grey, and white )

<sup>\*</sup>Time tolerance of Auto-Seq Interval is ±2 seconds.

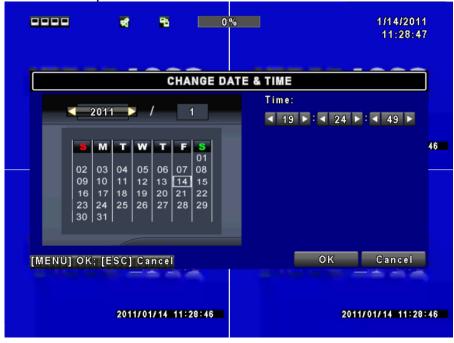
### 5.9.2 Date/ Time Setup



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.



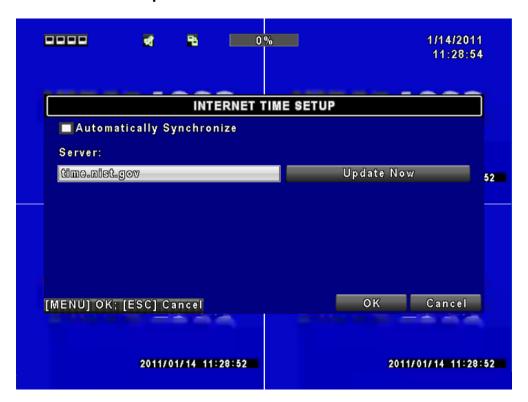
#### 5.9.2.2 Time Zone Setup



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

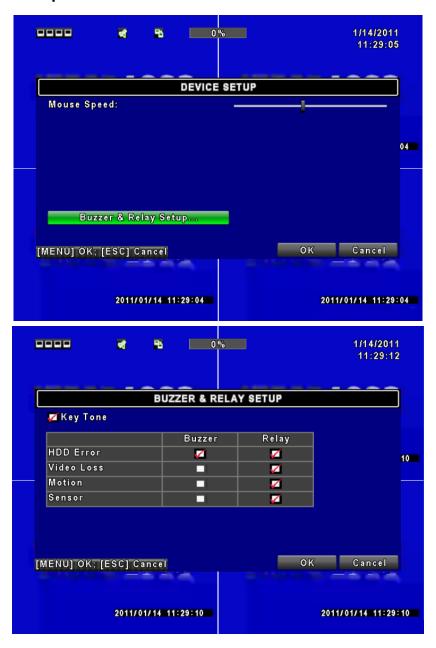
### 5.9.2.3 Internet Time Setup



Synchronize your DVR time with internet time server.

Item	Description
	Check to enable DVR automatic synchronization function. Select this
Automatic Synchronization	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	
Auto-Seq. Interval	The duration interval time between channels is in seconds under SPOT	
(Seconds)	mode (1~999 seconds).	
Enable Spot	When setting "Enable Spot", the "MAIN/SPOT" BNC terminal will be	
	confined/restricted to Spot output port only.	
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, and 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.		
	Shows HDD status.		
	<b>USING</b> means the HDD is now used for recording.		
HDD Status	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 e	vents
Date/Time	Date/ time when the	e event occurred.
	Event type, defined	as following:
	Motion	Motion Detected
	Sensor	Sensor Detected
	Video Loss	Video Loss
Event Type	Remote Login	User log-in over the network
	Remote Logout	User log-out over the network
	Power On	System Rebooting
	HDD Full	HDD is FULL
	HDD Error	HDD is error
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  $\square$  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 "DVRemoteDesktop.exe" or "iCMS".



Item	Description
From	Backup file starting time
То	Backup file ending time
Dovice	Select USB, CD, or DVD-R/RW as the backup device (From remote site, the device
Device	will be PC.)
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.

# **Chapter 7 iCMS Installation and Usage**

DVR-462 has provided a simple use and powerful utility called – iCMS. When this utility installed to Windows platform, user can get more functions than on the web browser. When you want to fully control your DVR-462, you may install the iCMS into your PC and refer to instructions below to know and manage theose functions in the iCMS.

### 7.1 iCMS Installation

#### **System Requirement:**

- Intel Pentium 4 processor or equivalent.
- Microsoft Windows Vista · Windows XP · Windows 2003 Server.
- ◆ 512MB memory above.
- 20MB HD space. Recording and image capturing require extra space for storage.

#### **Installation Guide:**

- **Step 1**: Install the CD that is packed with the DVR and into your CD-ROM drive.
- **Step 2**: You will see a welcome web page. Please click the iCMS utility hyper-link. If the welcome web page doesn't appear, you can find the program in E:\Utility\Setup.exe. Suppose "E" is your CD-ROM drive.
- **Step 3**: If the PC doesn't install Visual C++ plug-in, you will see this screen below, please select "Install" to install this plug-in.
- Step 4: Please click "Next".

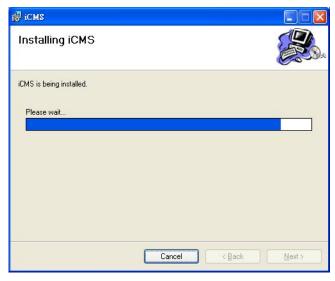


**Step 5**: Select "**Browse**" to change installation path if needed. To check available space on hard disk, please select "**Disk Cost**" then please select "**Next**" to the next step.

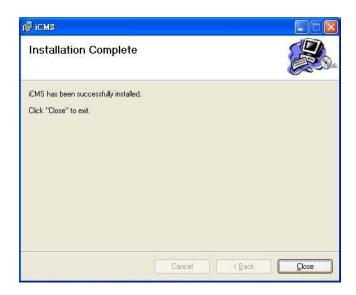


Step 6:"Confirm Installation" window shows. Select 'Next' then the installation starts.



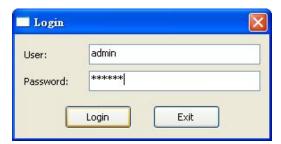


**Step 7**: Select 'Close' to finish installation when the "Installation Complete" window shows.

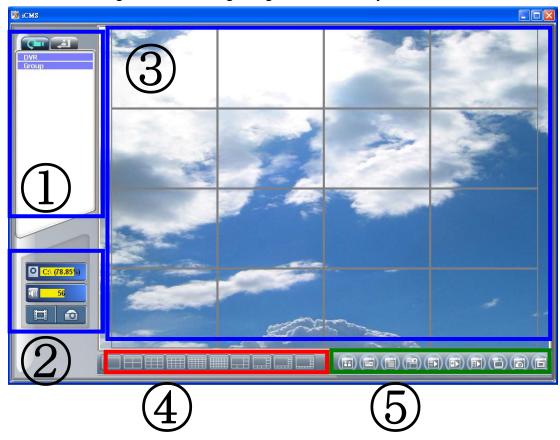


# 7.2 iCMS Login and Environment

To enter iCMS, the administrator's user name and password are required. The defaults are 'admin' and '123456'.



After successful login, the following image is shown on your screen:



DVRs, Groups &	Information about DVRs, groups and events. See "7.3	
Events	Groups & Events" for more details.	
PC information and	Information about local PC's hard disk, volume,	
	recordingetc. See "7.6 Local PC Information and Control"	
control	for more details.	
Main Display	Live image display area. See "7.7 Main Display" for more	
	details.	
Display Modes Several choices of display modes supported by iCMS		
Operation Bar	A set of 10 operations are provided by iCMS. See "7.11	
	Operation Bar" for more details.	

## 7.3 Groups & Events

lcon	Description
	View list of logged in DVR / Group.
	View Logs: DVR event information list.

## 7.4 View DVR/ Group List

Single left click on 'DVR' or 'Group' will expand/ shrink the entire DVRs and groups list.

On the DVR list, double left click on a connected DVR will show its image in the main display. See "7.13 User Administration" for further information.

On the Group list, double left click on a group will show live image from the channels of the group in the main display. See "7.14 Group Administration" for further information.

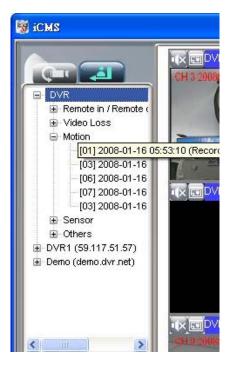


Icon	Description
•	Video Loss
*	Motion
<u> </u>	Sensor



### 7.5 Event View

This window lists all the events recorded on the DVR. Each DVR has a list of different categories of events. According to Remote in/ Remote out, Video Loss, Motion, Sensor, and Other (Power Reset, Key lock, Key unlock, HD Full).



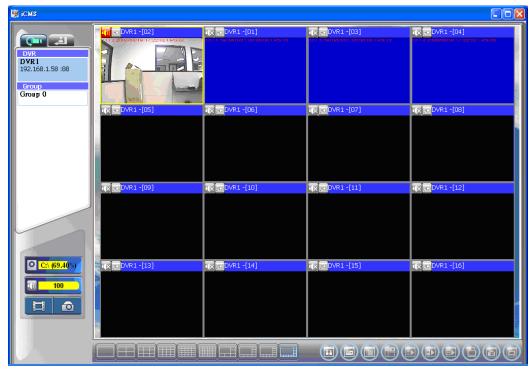
### 7.6 Local PC Information and Control

Located on the left lower corner of the screen, please see the chart below:

Icon	Function	Description
O C:\ (79.56%)	HDD info	Shows the ratio of available space / HDD capacity
C.1 (19.30 m)		of C:\ drive (where iCMS is installed).
35	Volume	PC volume or playback volume control bar.
		Record live image to local PC storage. To view
	Recording	locally stored data, use "Record" under the
		operation bar. Also see "7.21Recording data" for
		detail.
		Take snapshot to save in local PC storage. To view
	Snapshot	all the snapshots you've taken; please go to
		"Snapshot" under the operation bar. See
		"7.20Snapshot data" for detail.

### 7.7 Main Display

The main display area is where the live image of DVR is shown. You can drag to change the location of the screen for each channel and turn On/Off audio signal by clicking the mouse.

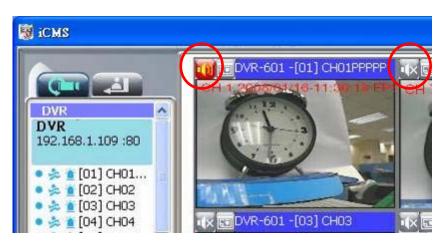


### 7.8 Audio Control

In live mode, you can turn On/ Off the audio signal of Ch1~Ch4 (DVR-462 supports only 1Channel audio recording):

- Audio signal is On
- Audio signal is Off

Turn On/Off by clicking on the graphical icon, please note that each time only one audio signal channel is allow turned on.



# 7.9 eMaps

In LIVE view, press <code>[ioi]</code> \_ to show eMap window. If a channel has e-Map settings added, a drop-down menu will appear showing the related e-Map names added in this channel. The channel that has not been added with any e-Map settings will have "No eMaps" shown on the screen.

For more information about e-Map setup, please refer to "7.15 eMap Setup".



# 7.10 PTZ Control

Right mouse click on the screen, PTZ control icon will appear, as shown below:

Icon	Description
8 Directional Button	PTZ Movement
<b>Q</b>	ZOOM+ : Zoom In
Q	ZOOM-: Zoom Out
	Preserved Function
Φ.	FOCUS+ : Focus Near
•	FOCUS-: Focus Far
	Preserved Function
Set PTZ Preset	16 PTZ Preset Points
Goto PTZ Preset	16 PTZ Goto Preset Points
Auto Tour	Activate Auto Tour
PTZ Sensitivity	PTZ Sensitivity Setup
	Set the start and the end point
	of Cruise function
Cruise	Activate Cruise Mode
Custom	Preserved Function
AUX 1~8(Customize)	AUTO+1 - AUTO+8



# 7.11 Operation Bar



### 10 Operations listed as below:

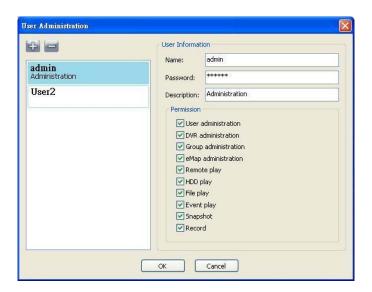
Icon	Description
	User Administration. Please see 「7.12 User administration」
	DVR Administration. Please see 「7.13 DVR Administration」
	Group Administration. Please see 「7.14 Group Administration」
	eMap Administration. Please see 「7.15 eMap Setup」
	Remote Playback. Please see 「7.16 Remote-Site Playback」
	HDD Playback. Please see 「7.17 HDD Playback」
	File Playback. Please see「7.18 File Playback」
	Event Playback. Please see 「7.19 Event Playback」
	Snapshot Data. Please see 「7.20 Snapshot Data」
	Recording Data. Please see 「7.21 Recording Data」

### 7.12 User administration

Before the iCMS can be used on a PC, user accounts should be added with proper authority. Each user should be assigned with a password and optionally a description. If a user does not have certain authority assigned, he/ she will not be able to operate the corresponding function on the Operation Bar. The default is none of the authority assigned. The administrator should assign proper authority to each user. These user accounts can be deleted or edited later on.

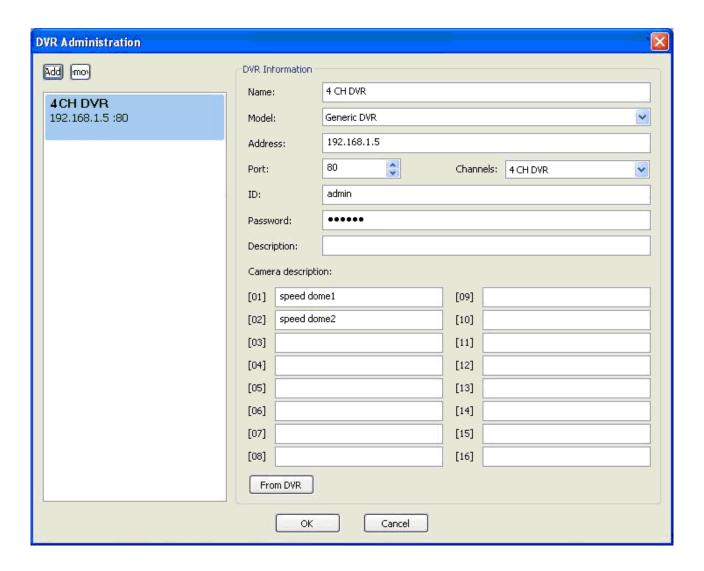
Select "OK" to save the setup.

Icon	Description
+	Add a user account. The default authority has none permission.
	Delete a user account.



### 7.13 DVR Connection Information Setup

You can add or delete the DVR connection, information and description editing, also enter names of the channels (Please select Generic DVR for DVR Model). After setup, please click "OK" to store setup.

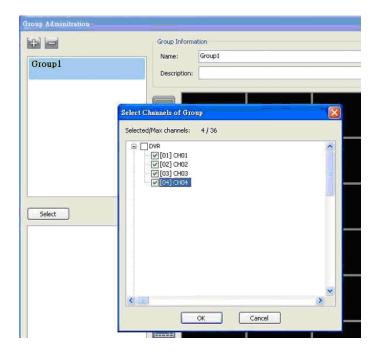


### 7.14 Group Administration

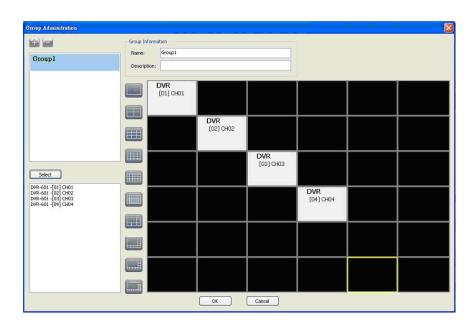
A 'Group' means a set of video channels from one or many DVRs, which means, user can organize channels from different DVRs to be set in a group. This function allows you to monitor and manage channels from multiple DVRs easily and flexibly.

#### Steps:

- **Step 1**: Add a new group and set its name and description.
- Step 2: Click 'Select' which will bring up a new window.
- **Step 3**: Check the specific channels that you'd like them to be included in the group. To include all channels of a DVR, just uses □ icon to check the DVR.



- Step 4: Click "OK" to return to the previous window.
- **Step 5:** Select a display mode, system will auto select.
- **Step 6:** Drag a channel from the lower left panel into the main display to a preferred location. Or, change the channel location in the main display by mouse dragging.
- **Step 7:** You can 'Select' again to add other channels, but the un-saved channel locations will be lost.
- Step 8: Click "OK" to save the setup.

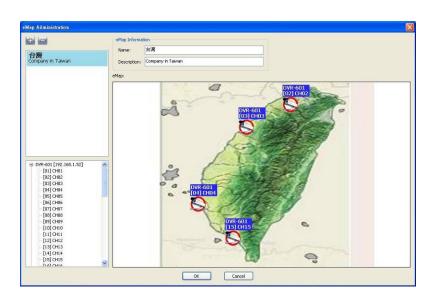


### 7.15 eMap Setup

If the DVR has the sub-region, or would like to have a picture on the background to monitor the channel, you can use the eMap.

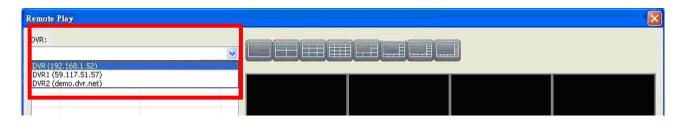
#### Steps:

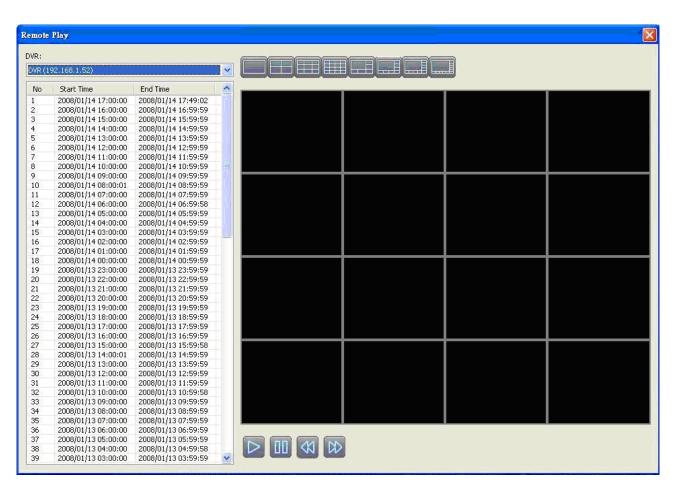
- 1. Click [ icon to select a path of the window picture.
- 2. Click [OK] button after selecting a picture, a window will show on the right picture content.
- 3. Use left mouse button to drag to any location.
- 4. To delete a channel, please right-mouse click on the channel icon (CH1-CH4), and select item option "Remove".
- 5. Click [OK] button after setup has been completed to store setup.



# 7.16 Remote-Site Playback

You can playback recorded images of the DVR on the remote-site. First select a DVR, DVR recording information list appears below, double-click to playback selected video time period, a video information screen will appear on the right. There are different split-screen options to select from, as shown below.

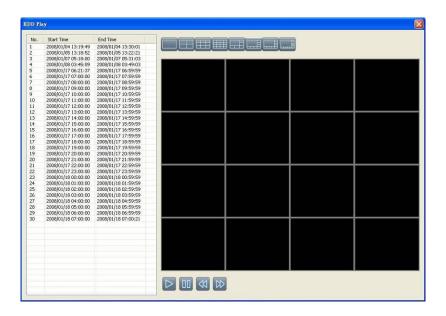




Icon	Description
	Start Playback
	Pause
	Stop playback
(A)	Fast forward
(B)	Fast rewind

# 7.17 HDD Playback

You can directly play the recording data in the HDD that's uninstalled from DVR by iCMS. See the picture below, the left part of the screen shows the recording data in a list form that's separated by hour and the right part is the main display. You can change the display modes and play files fast forward or rewind.



# 7.18 File Playback

You can play the recorded \*.irf files by "File Play" in iCMS. It allows you to change the display mode, forward or rewind the file and drag the time bar.



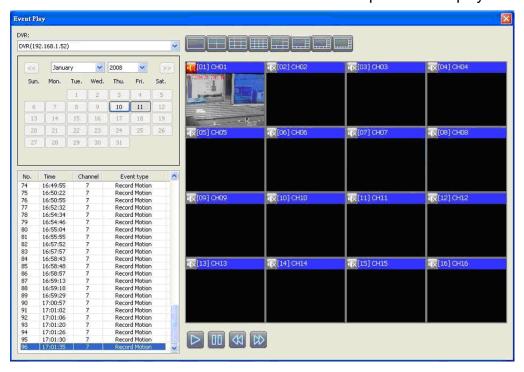
Icon	Description
	Start Playback
	Pause
	Stop playback
বিষ	Fast forward
	Fast rewind

## 7.19 Event Playback

You can play the event recorded by the DVR.

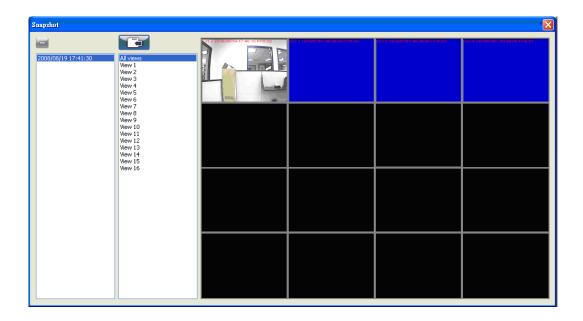
#### Steps:

- 1. Select DVR.
- 2. Select date.
- 3. Double-click on the selected "Event type" (table on the left hand side, bottom row), video will be shown on the right side of the screen.
- 4. Select split-screen.
- 5. Use the 4 icon functions on the bottom of the screen to operate video playback.



### 7.20 Snapshot Data

It can display all the snapshots you've taken, into "Snapshot Data". You can review, delete or save as other files.

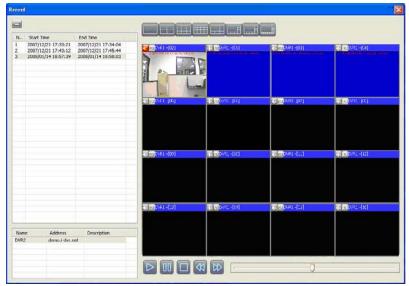


### 7.21 Recording Data

It can play all the recording files you've recorded, into "Recording Data". You can play or delete them.

#### Steps:

- **Step 1**: Choose the recording time at upper left corner, it will be played on the main display.
- Step 2: You can choose the display mode.
- **Step 3**: Time bar will be shown on the right lower corner, please drag the time bar to specify the recording time you'd like to play.



# **Chapter 8 NETWORK SURVEILLANCE**

### 8.1 AP Software Installation and Setup

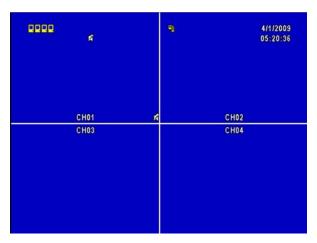
**Step 1**: Enter the IP address of the DVR in the IE browser.



**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**".

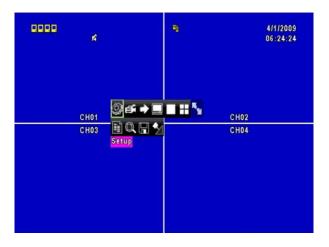


Step 3: You've logged into the DVR



## **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



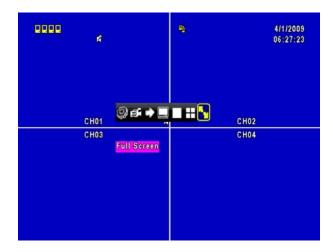
Click Record icon to select between 3 recording options (Record On/ Off, Record to Local..., Screen Snapshot [F2]). Record switch can activate DVR client to record, record to local client can be backed up onto the PC, may also use snapshot to capture video image onto the PC.

#### 8.2.2 Lock



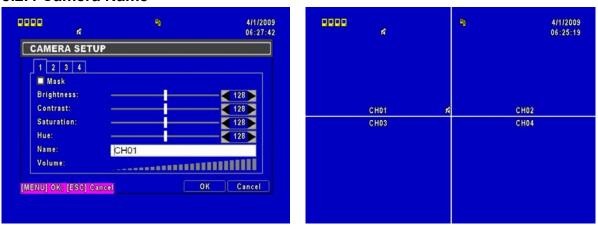
Click Lock icon to lock remote-site function and to unlock, account and password must be entered all over again.

#### 8.2.3 Full Screen



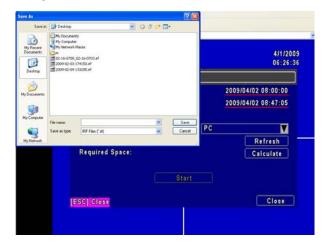
Click Full Screen icon to enlarge the screen to full screen display.

#### 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 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  $\rightarrow$  Network Setup  $\rightarrow$  HTTP Setup  $\rightarrow$  Check the "Enable HTTP Server".

### 9.1 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.

#### 9.1.1 Mobile Application Installation

Please follow the steps shown below to perform the mobile device surveillance function.

**Step 1**: You need to install the mobile application called "**DVRH264.jar**" into your mobile device. The application can be downloaded from the CD that packed with DVR through Bluetooth or USB cable. You can find it in e:\utility\mobile\. For example, e is your CD-ROM drive.

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



#### 9.1.2 Mobile Application Operation

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

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

#### 9.1.2.1 Add New Login DVR

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

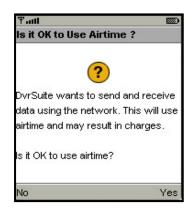


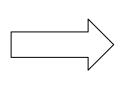
#### 9.1.2.2 Logging onto the DVR

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

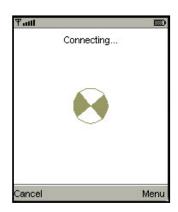
A confirmation message might show up for a network charge before connection. The fee rate will depend on the telecom company and package fee that you go with.

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





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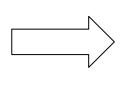


Note: Live images can not be displayed in your mobile when the recoding is set to off on local DVR.

#### 9.1.2.3 Modify the Login Information of the DVR

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







#### 9.1.2.4 Delete the Login Information of the DVR

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



#### 9.1.3 Live Monitoring Operation

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

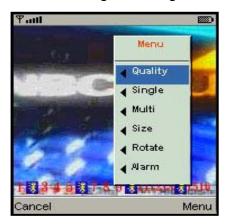
#### 9.1.3.1 Scroll the Image

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

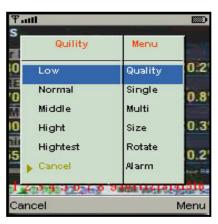
Key	Action
2	Scroll Up
4	Scroll Left
6	Scroll Right
8	Scroll Down

#### 9.1.3.2 Image Quality Setup

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

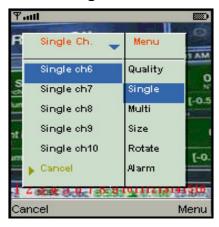






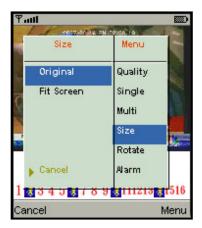
#### 9.1.3.3 Channel Display

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



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

#### 9.1.3.4 Size of Image



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

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

#### 9.1.3.5 Rotate the image



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

#### 9.1.3.6 Alarm



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

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

Item	Description
**	Motion detected
4	Sensor triggered
2	Video loss

### 9.2 For Windows Mobile System

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

#### **System Requirement:**

Mobile device OS: Windows mobile system 5.0 and above.

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

#### 9.2.1 Mobile Application Installation

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

Step 1: The mobile application called "Jrviewer.CAB" and "H264Pocket.CAB" need to be installed in your mobile device. The application can be downloaded directly from the manufacturer's website to your mobile or; alternatively, it can be transferred to your mobile device from the CD that is packed with DVR through Bluetooth or USB cable. You can find it in e:\utility\mobile\. For example, e is your CD-ROM drive

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









#### 9.2.2 Mobile Application Operation

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

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

Item	Function	Description
Add to sign DVD	Enter DVR's name, IP address, Port, Account user, Password	
Add	Add Add login DVR	then press " <b>OK</b> "
	Login Logon DVR	• Choose the DVR that you'd like to logon , then press " <b>OK</b> "
		• PS. Live image can not be displayed in your mobile when
		the recoding is off.
Login		• 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 " <b>Modify</b> ", and press" <b>OK</b> " to save change.
Delete	Delete Login DVR	Choose DVR and press"Delete" to delete the DVR info.

#### The operation of Jrviewer



#### The operation of H264 Pocket



#### 9.2.3 Operation under the LIVE monitoring

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

### 9.2.3.1 jrviewer Operation under the LIVE monitoring





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

### 9.2.3.2 Operation under the LIVE monitoring for H264 Pocket





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

# **Appendix A: Product Specification**

	I/O
Video System	NTSC / PAL Auto Detect
Video Input	4CH BNC
Video Input Level	1.0 Vp-p Composite, 75 Ohm Balanced
Video Output	1CH BNC (MAIN / SPOT)
SPOT Output	1CH BNC (MAIN / SPOT)
VGA Output	1280x1024
Audio Input	1CH RCA
Audio Input Level	0.5~1.4 Vp-p @ 20K Ohm
Audio Output	1CH RCA
Audio Backup	YES
Sensor	4 input / 1 output
RS-485	Pan / Tilt / Zoom camera
USB Port	2 ports
Mouse	USB mouse
IR Remote Controller	YES
	STORAGE
HDD Support	SATA HDD x1 (Max. 2TB)
	OSD
Display Division	1,4
GUI	YES
Title	14 characters
PIP	YES
Digital Zoom	2X ~ 8X
	RECORDING
Video Compression	H.264
Audio Compression	ADPCM
Pacalution	720x480, 720x240, 360x240 (NTSC)
Resolution	720x576, 720x288, 360x288 (PAL)
Frame Rate	120, 120, 120 (NTSC)
	100, 100, 100 (PAL)
Quality	Highest, High, Normal, Basic, Below Basic
Record Mode	Manual, Schedule, Event(motion detection/sensor)
Pre-Alarm Recording	16MB (10 sec)
Post-Alarm	1-60 sec

Recording		
Motion Detection	22X15 (sensitivity 0~10)	
	PLAYBACK	
Search Mode	Time, Event	
	fast forward/backward 2X/4X/8X/16X/32X/64X	
Playback Speed	slow forward/backward 1/2X,1/4X,1/8X,1/16X	
	play/pause	
Backup Mode	USB flash driver / Network	
	NETWORK	
Network	H.264	
Compression	11.204	
Software	YES	
Internet Explorer	YES	
СМЅ	YES	
3G Mobile Phone	Support	
Network Users	5	
Remote Notification	Email message	
Service	TCP/IP, SMTP, DHCP, DDNS, PPPoE	
	OTHER	
Daylight Saving	YES	
	5 users including 1 administrator	
Password	user authority selectable	
Event List	10000	
Key Lock	YES	
Firmware Update	USB device	
Dimension	188mm (W) x 54mm (H) x 209mm (D)	
Power Source	DC12V	
	DOTZV	
Operating Environment	30 ~ 80% RH, 5 $^{\circ}$ C ~ 40 $^{\circ}$ C (41 $^{\circ}$ F ~ 104 $^{\circ}$ F)	
Environment		