




# — 4CH DVR —



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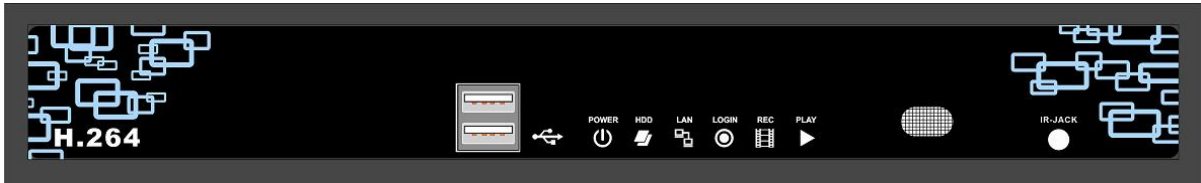
# Table of Contents

<b>CHAPTER 1 PACKING DETAIL AND INSTALLATION</b>	<b>5</b>
<b>1-1 PACKING</b>	<b>5</b>
<b>1-2 Hard Disk Installation</b>	<b>6</b>
<b>CHAPTER 2 PANEL LOCATION</b>	<b>8</b>
<b>2-1 FRONT PANEL CONTROLS</b>	<b>8</b>
<b>2-2 4CH REAR PANEL CONNECTORS</b>	<b>9</b>
<b>CHAPTER 3 LIVE, PLAYBACK AND PTZ OPERATIONS</b>	<b>10</b>
<b>3-1 LIVE Mode</b>	<b>10</b>
<b>3-2 PLAYBACK Mode</b>	<b>13</b>
<b>CHAPTER 4 MAIN MENU SETUP</b>	<b>15</b>
<b>4-1 RECORD SETUP</b>	<b>16</b>
<b>4-1.1 Quality &amp; Frame Rate Setup</b>	<b>17</b>
<b>4-2 EVENT SETUP</b>	<b>17</b>
<b>4-2.1 MOTION SETUP</b>	<b>18</b>
<b>4-2.1.1 MOTION AREA SETUP</b>	<b>18</b>
<b>4-3 SCHEDULE SETUP</b>	<b>19</b>
<b>4-3.1 Schedule Record Setup</b>	<b>20</b>
<b>4-3.2 Holiday Setup</b>	<b>20</b>
<b>4-4 CAMERA SETUP</b>	<b>21</b>
<b>4-5 ACCOUNT SETUP</b>	<b>22</b>
<b>4-5.1 Permission Setup</b>	<b>22</b>
<b>4-5.2 User Picture Setup</b>	<b>23</b>
<b>4-6 NETWORKING SETUP</b>	<b>23</b>
<b>4-6.1 NETWORKING SETUP</b>	<b>24</b>
<b>4-6.1.1 DHCP</b>	<b>24</b>
<b>4-6.1.2 LAN</b>	<b>24</b>
<b>4-6.1.3 ADSL</b>	<b>25</b>
<b>4-6.2 HTTP Setup</b>	<b>25</b>
<b>4-6.3 DDNS Setup</b>	<b>26</b>
<b>4-6.4 Mail Setup</b>	<b>26</b>
<b>4-6 SYSTEM SETUP</b>	<b>27</b>
<b>4-7.1 DISPLAY SETUP</b>	<b>28</b>
<b>4-7.2 DATE/TIME SETUP</b>	<b>28</b>
<b>4-7.2.1 CHANGE DATE &amp; TIME</b>	<b>29</b>
<b>4-7.2.2 TIME ZONE AND DAYLIGHT SAVING TIME SETUP</b>	<b>29</b>
<b>4-7.2.3 INTERNET TIME SETUP</b>	<b>30</b>
<b>4-7.3 DEVICE SETUP</b>	<b>30</b>
<b>4-8 UTILITY SETUP</b>	<b>31</b>
<b>4-9 DIAGNOSTIC</b>	<b>32</b>
<b>CHAPTER 5 BACKUP &amp; SEARCH</b>	<b>33</b>
<b>5-1 BACKUP SETUP</b>	<b>33</b>
<b>5-2 SEARCH SETUP</b>	<b>34</b>
<b>5-2.1 EVENT SEARCH</b>	<b>35</b>
<b>5-2.2 TIME SEARCH</b>	<b>36</b>
<b>CHAPTER 6 Rempte Software Installation and Setup</b>	<b>37</b>
<b>6-1 AP Software Installation and instruction</b>	<b>37</b>
<b>6-2 How to do remote monitoring through IE</b>	<b>39</b>
<b>6-3 AP Software Operation</b>	<b>40</b>

<b>CHAPTER 7 SPECIFICAITONS</b>	<b>41</b>
<b>CHAPTER 8 MOBILE APPLICATION INSTALLATION AND USAGE</b>	<b>43</b>
<b>8-1 Mobile Application Installation and Operation for Symbian System</b>	<b>43</b>
<b>8-1.1 Mobile Application Installation</b>	<b>43</b>
<b>8-1.2 Mobile Application Operation</b>	<b>44</b>
<b>8-1.2.1 Add New Login DVR</b>	<b>44</b>
<b>8-1.2.2 Logging Onto the DVR</b>	<b>44</b>
<b>8-1.2.3 Modify the Login Information of DVR</b>	<b>45</b>
<b>8-1.2.4 Delete the Login Information of DVR</b>	<b>45</b>
<b>8-1.3 Live Monitoring Operation</b>	<b>45</b>
<b>8-1.3.1 Scroll the Image</b>	<b>46</b>
<b>8-1.3.2 Image Quality Setup</b>	<b>46</b>
<b>8-1.3.3 Channel Display</b>	<b>46</b>
<b>8-1.3.4 Size of Image</b>	<b>47</b>
<b>8-1.3.5 Rotate the image</b>	<b>47</b>
<b>8-1.3.6 Alarm</b>	<b>47</b>
<b>8-2 Mobile Application Installation and Operation for Windows Mobile Sy stem</b>	<b>48</b>
<b>8-2.1 Mobile Application Installation</b>	<b>48</b>
<b>8-2.2 Mobile Application Operation</b>	<b>49</b>
<b>8-2.3 Operation under the LIVE monitoring.</b>	<b>50</b>
<b>CHAPTER 9 CMS INSTALLATION AND USAGE GUIDE</b>	<b>51</b>
<b>9-1 CMS Installation</b>	<b>51</b>
<b>9-2 CMS LOGIN AND ENVIRONMENT</b>	<b>54</b>
<b>9-3 DVRs, Groups &amp; Events</b>	<b>55</b>
<b>9-3.1 View DVR/Group List</b>	<b>55</b>
<b>9-3.2 View Event Logs</b>	<b>56</b>
<b>9-4 Local PC Information and Control</b>	<b>56</b>
<b>9-5 Main Display</b>	<b>57</b>
<b>9-5.1 Audio Control</b>	<b>57</b>
<b>9-5.2 eMAP Display</b>	<b>58</b>
<b>9-5.3 PTZ Control</b>	<b>59</b>
<b>9-6 Operation Bar</b>	<b>60</b>
<b>9-6.1 User administration</b>	<b>61</b>
<b>9-6.2 DVR Administration</b>	<b>61</b>
<b>9-6.3 Group Administration</b>	<b>62</b>
<b>9-6.4 eMap Administration</b>	<b>63</b>
<b>9-6.5 Remote Play</b>	<b>64</b>
<b>9-6.6 HDD Playback</b>	<b>65</b>
<b>9-6.7 File Playback</b>	<b>65</b>
<b>9-6.8 Event Playback</b>	<b>66</b>
<b>9-6.9 Snapshot Data</b>	<b>66</b>
<b>9-6.10 Recording Data</b>	<b>67</b>
<b>APPENDIX I I-DVR.NET REGISTRATION</b>	<b>68</b>
<b>APPENDIX II Remote Monitoring IE ActiveX Control Installation Instruction</b>	<b>70</b>

## CHAPTER 1 PACKING DETAIL AND INSTALLATION

### 1-1 PACKING



1. DVR



2. Quick Start



3. IR Remote Control



4. Batteries x2



5. CD



6. SATA Cord x1



7. Screws x4

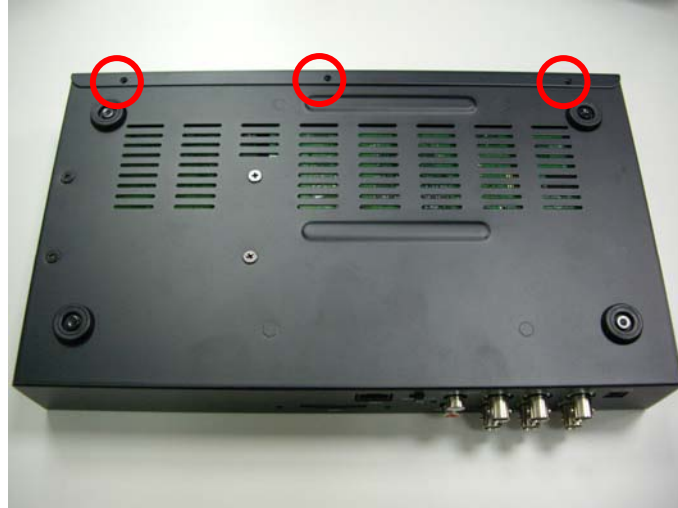


8. Power Adaptor

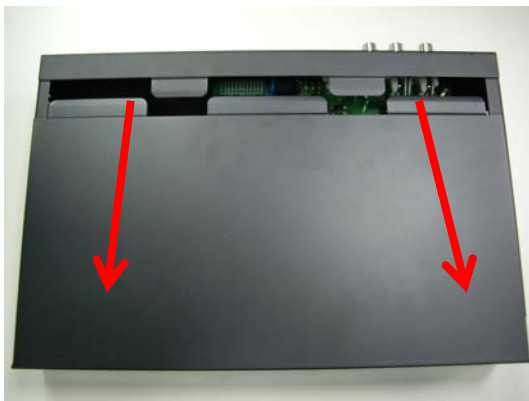
**Note: Standard shipping products do not include HDD**

## 1-2 Hard Disk Installation

Step 1: Take off the three screws from the bottom of the DVR as indicated in red circles in the picture below.



Step 2: Open the cover follow the way the arrows indicate.



Step 3: Fix the HDD to rack mount and connect SATA and the power cable as indicated.



**Step 4: Put DVR bottom up, screw to fix the HDD as indicated.**



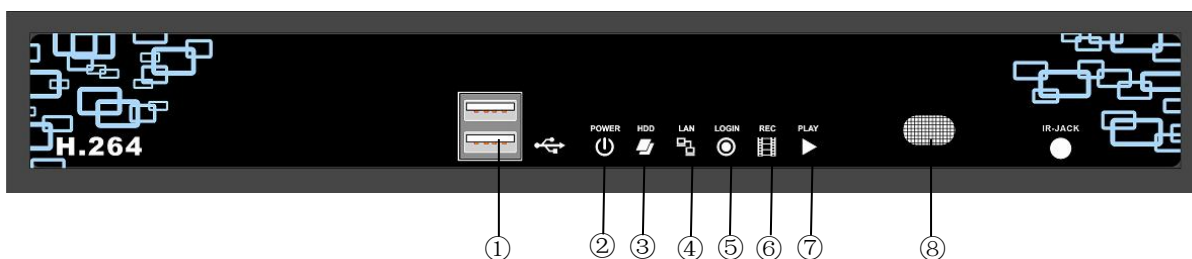
**Step 5: Put the cover back and put the three screws back to fix the cover in the bottom of the DVR.**



NOTE: The initialization of new-installed HDD is required before recording, please refer to manual "4-8UTILITY SETUP" for detail.

## CHAPTER 2 PANEL LOCATION

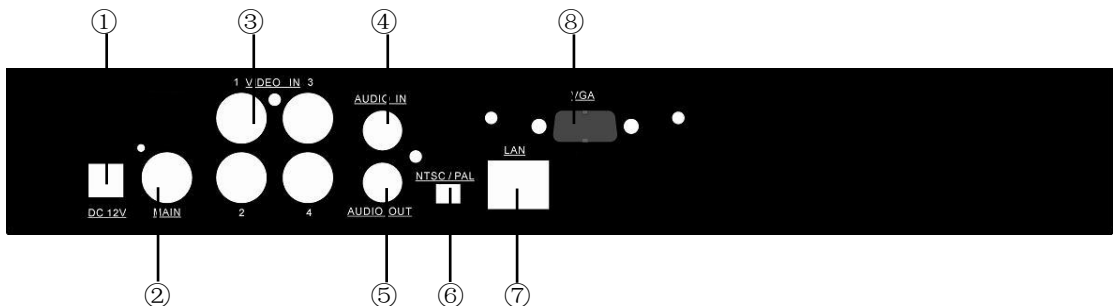
### 2-1 FRONT PANEL CONTROLS



① USB Port	Top(USB2.0) is used to plug the USB memory stick Bottom(USB1.1) is used to plug the mouse
② LED Display- Power	DVR Power is on.
③ LED Display - HDD	Hard disk is in use.
④ LED Display - LAN	Connected to the internet.
⑤ LED Display- LOGIN	Remote user logged in.
⑥ LED Display - REC	DVR Recording. (or Schedule Recording and recording are on)
⑦ LED Display - PLAY	DVR Playing back.
⑧ IR Sensor	Input sensor for the remote control.



## 2-2 4CH REAR PANEL CONNECTORS



① DC 12V	Socket for a DC 12V input.
② MAIN monitor	BNC port for the main monitor.
③ VIDEO IN	BNC input ports for cameras, 16 in total.
④ AUDIO IN	RCA input port for audio signal.
⑤ AUDIO OUT	RCA output for audio signal.
⑥ NTSC / PAL Switch	Switch between NTSC and PAL format.
⑦ LAN	Network port.
⑧ VGA	VGA port.


## CHAPTER 3 LIVE, PLAYBACK AND PTZ OPERATIONS

The IR remote control and mouse operate differently under each mode; this chapter describes the functions of them under three different modes: LIVE, PLAYBACK and PTZ.















### 3-1 LIVE Mode

You can monitor all the channels, listen to audio signal and have some related operations under LIVE mode. This paragraph describes the IR remote control, mouse operation and on screen graphical icons under LIVE mode.













**Table 3-1.1** Functions of remote control under LIVE mode

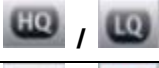





Button	Description
REC	Start/Stop recording.
PLAY	Start playing back the most recently recorded segment.
LOCK	Enable/Disable the Keypad function
1,2,3,4	Select the channel to monitor in full screen
FREEZE	Turn on/off screen freeze function.
	Switch to quad display.
ENTER/MODE	Switch to full screen, quad display.
MENU/	Enable/ Disable setup Menu.
BK-UP/ESC	Enable/ Disable backup menu.
SRH	Enable/ Disable search menu.
MUTE	Switch channel 1 output audio / turn off LIVE audio
STATUS	Enable/ Disable Status.
OSD	Turn on/off the screen display
Zoom/Zoom -	Enable/ Disable double screen size display. You can click on the channel name for choosing a specific channel.
PIP/Zoom +	Turn on picture-in-picture format. Click on the channel name can switch to other channels.
AUTO	In AUTO mode, all available channels will be cycled through in full screen.

**Table 3-1.2** Graphical icons that will display after right-clicking your mouse under LIVE mode.

Icon	Description
	Resting the cursor on this icon will bring up the following three menu icons.
	Main menu.
	Search menu.
	Backup menu.
	Turn on/off recording.
	Playback.
	Resting the cursor on this icon will bring up the following five display icons.
	FREEZE.
	PIP, picture in picture
	ZOOM, double the screen size
	AUTO-sequence
	LOCK, activate the key lock.
	Full screen display.
	Quad display.

**Table 3-1.3** Description of on screen graphical icons in LIVE mode

Icon	Description
	Recording is on
	Schedule Recording is on
	Live Audio is on
	Live Audio is off
	Motion detected on the channel
	Sensor triggered on the channel
	Video loss detected on the channel
	USB device detected
	DVD burner is detected
	Connected to the LAN cable.
	AUTO-seq is on
2X	2X zoom in is on
	Freeze is on, screen is frozen
	LOCK is on
	Shows the current hard disk space has been used (99% mean used 99%, remain 1%)
	Lower right of each CH will show the current time

Icon	Description
	Image quality (High/Low)
	Full screen
	Record
	Snap shot (Photo time in accordance with computer-based)
	Record and snap shot file saving path setup
	Enable/Disable shortcut toolbar

### 3-2 PLAYBACK Mode


Switch to PLAYBACK mode by pressing "PLAY" 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.












Table 3-2.1 Remote control functions under the PLAYBACK mode

Button	Description
<b>ENTER / MODE</b>	Switch to full screen, quad.
<b>MENU / ■■</b>	Turn on/off PAUSE.
<b>PLAY</b>	Play back at normal speed.
<b>▲ / SLOW</b>	Play back at slower speed. The speed will be slowed to 1/2, 1/4, 1/8, 1/16 by each pressing of the button till the slowest limitation of 1/16 of the normal speed. Current playback speed is shown in the upper center of the screen.
<b>◀◀ / ◀</b>	Fast rewind. Each press increases the speed to the next level. There are six speeds: 2x, 4X, 8X, 16x, 32X and 64X.
<b>▶▶ / ▶</b>	Fast forward. Each press increases the speed to the next level. There are six speeds: 2x, 4X, 8X, 16x, 32X and 64X.
<b>▼ / ■</b>	Stop playback.



**Table 3-2.2** The mouse operation under the PLAYBACK mode.







Icon	Description
	「 ◀◀ / ◀ 」 Fast rewind
	「 ▶▶ / ▶ 」 Fast forward
	Play/pause
	「 ▲ / SLOW 」, slow playback
	「 ▼ / ■ 」 stop playback
	Playback channel by channel with snap shot display
	Full screen display
	Quad display
	Zoom-in display

## CHAPTER 4 MAIN MENU SETUP

To enter the main menu and set up DVR, log-in account and user password are required. The default password of the administrator is "123456". Please check the "Account Setup" for related setup of other log-in users.



**Table 4-0.1** Some definition of virtual keyboard.

Item	Description
	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 set up menu, If the password is verified.
	Space key



**Table 4-0.2** The operation of remote control under the setting menu

Item	Description
◀ ▶	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 menu without saving
ENTER	Enter the menu, or display virtual keyboard

*PS. The initialization of new-installed HD is required before recording, please refer to “4-8 UTILITY SETUP” for detail.*

#### 4-1 RECORD SETUP



Item	Description
<b>HDD FULL</b>	Select STOP to stop recording or OVERWRITE to reuse the HDD when HDD is full 「 <b>Stop</b> 」: Stop Recording 「 <b>Overwrite</b> 」: Start to overwrite that begin from the oldest data of HDD, and continue to record.
<b>OSD position X</b>	Setup OSD X axis
<b>OSD position Y</b>	Set up OSD y axis
<b>OSD position setup</b>	Set up OSD axis
<b>Video Preservation</b>	Setup the video preservation period. Recorded video will be deleted automatically after expiry of preservation period.
<b>Quality &amp; Frame Rate Setup</b>	Setup the quality and frame rate for each channel under normal recording and event recording type.



#### 4-1.1 Quality & Frame Rate Setup



**Note : 4CH DVR will display 4 channels and 8CH DVR will display 8 channels.**

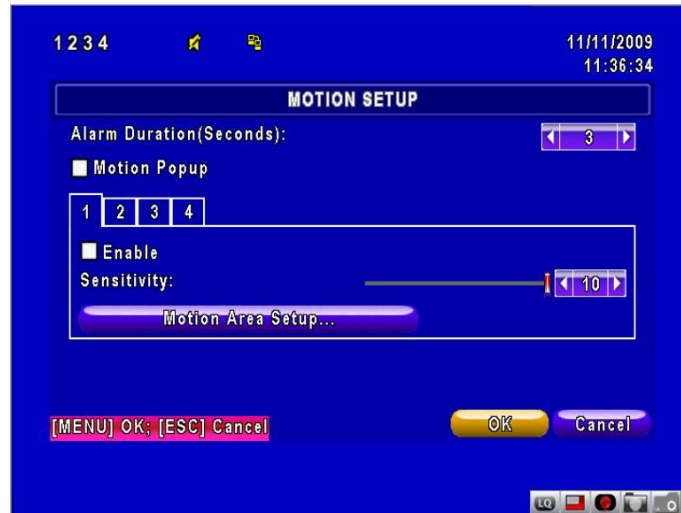
Item	Description
<b>View Normal / View Event</b>	Select recording mode
<b>No.</b>	Check/uncheck the box enable/disable selected channel recording
<b>Resolution</b>	Select recording resolution: NTSC:360x240, 720x240, 720x480 PAL:352X288,704X288,704X576
<b>Quality</b>	Select quality: Lowest/ Low/ Normal/ High/ Highest
<b>FPS</b>	You can setup FPS separately for each channel.
<b>Auto</b>	Assign each channel with its maxima accessible fps

#### 4-2 EVENT SETUP



Item	Description
<b>Motion Setup</b>	Enter to set up motion detection

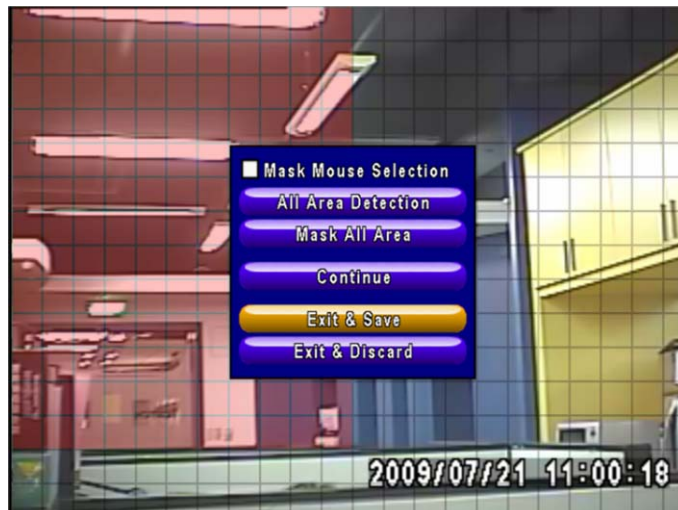
## 4-2.1 MOTION SETUP



Item	Description
<b>Alarm Duration(Seconds)</b>	When motion detect , the number of seconds continuous alarm
<b>Motion Popup</b>	Check the box to Enable/Disable popup screen function for all channels. When motion is detected in LIVE mode, the detected channel image will pop up in full screen display.
<b>1~4</b>	You can setup independently for each channel.
<b>Enable</b>	Check the box to Enable/Disable motion detection for each channel.
<b>Sensitivity</b>	Drag the white bar or press ◀ ▶ to set up Sensitivity from value 1 to 10 for each channel. The lower value you set the higher sensitivity it will be
<b>Motion Area Setup</b>	Enter to setup motion detection area

### 4-2.1.1 MOTION AREA SETUP

The motion detection has been divided into 16x12 grids. The default detection area is full screen as it marked in transparent for local DVR and purple for remote access. Areas deselected for motion detection are marked in red for both local and remote site.



Item	Description
<b>Mask Mouse Selection</b>	Switch between “select” and “deselect” for cursor-dragging function
<b>All Area Detection</b>	Select entire screen as detection area.
<b>Mask All Area</b>	Deselect entire detection area.
<b>Continue</b>	Continue setup
<b>Exit &amp; Save</b>	Save setup and leave
<b>Exit &amp; Discard</b>	Cancel setup and leave

### 4-3 SCHEDULE SETUP

Except from starting recording manually, you can also setup the recording time by weeks and schedule including normal, motion detect, and sensor detect recording type.



Item	Description
<b>Page</b>	Each page provides 10 schedules for setup. 5 pages in total.
<b>Holiday Setup</b>	Enter to setup holiday, up to 50 days, other than weekends,.
<b>View Event/ Motion Setup</b>	View Normal/ Motion Setup

### 4-3.1 Schedule Record Setup

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



### 4-3.2 Holiday Setup

Since holidays are different by different country and region, you can setup the holiday of your location accordingly.



## 4-4 CAMERA SETUP



Item	Description
1~4	You can setup independently for each channel.
Mask	Check the box to Enable/Disable mask function for LIVE mode
Sharpness	Drag the bar or press ◀ ▶ to adjust Sharpness of your camera from value 1 to 255. The default value is 1.
Brightness	Drag the bar or press ◀ ▶ to adjust Brightness of your camera from value 1 to 255. The default value is 128.
Contrast	Drag the bar or press ◀ ▶ to adjust Contrast of your camera from value 1 to 255. The default value is 100.
Chroma(U)/(V)	Drag the bar or press ◀ ▶ to adjust Chroma of your camera from value 1 to 255. The default value is 128.
Hue	Drag the bar or press ◀ ▶ to adjust Hue of your camera from value 1 to 255. The default value is 128. ( <b>This function doesn't support at PAL system</b> )
Name	Set up name of each channel
Volume	Audio volume for CH1 under LIVE mode and recording mode can be adjusted.

## 4-5 ACCOUNT SETUP

The Account Setup menu is used to provide role-based permission independently setting for each user (maximum of 2 users) to access DVR over network. The default admin account and password is “admin” and “123456” The default password remains the same after firmware upgrade, however, it requires 8-digits for password length when you setup a new one



Item	Description
<b>No.</b>	Check to activate the user's account.
<b>Username</b>	Set up username
<b>Password</b>	Set up password for each user. Password is 8-digits required and can be mixed by letters and numbers with case-sensitive. Letters can be mixed with capitals or lowercases.
<b>Permissions</b>	Set up Permissions for each user
<b>Change Admin Password</b>	Change administrator's password
<b>Change</b>	Change user's picture

### 4-5.1 Permission Setup

The Account Setup is set to provide individual user (maximum of 2 users) role-based permissions, including access to Setup menu, Network operation, PTZ function, Playback, Utility, Backup, Password expiry date and Mask on specific channels while playing back.



## 4-5.2 User Picture Setup

User can select picture wished to be changed to from hard drive.



## 4-6 NETWORKING SETUP



Item	Description
Connect type	Setup mode for network connection: (DHCP 、 LAN 、 ADSL).
HTTP Setup	Enter to set up HTTP
DDNS Setup	Enter to set up DDNS
Mail Setup	Enter to set up mail



## 4-6.1 NETWORKING SETUP

There are three ways to connect to the network as followed.

### 4-6.1.1 DHCP

When DHCP is selected, IP address will be assigned by DHCP server automatically.



### 4-6.1.2 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. <b>(Note: The correct DNS address must be entered for DDNS function).</b>



### 4-6.1.3 ADSL

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



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

### 4-6.2 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 65000. The default value is 80.
Auto	Assign each channel with its maxima accessible fps
No.	Chanel number
Quality	Set up record quality. There are below basic, basic, normal, high, highest
FPS	Set up record FPS

### 4-6.3 DDNS Setup

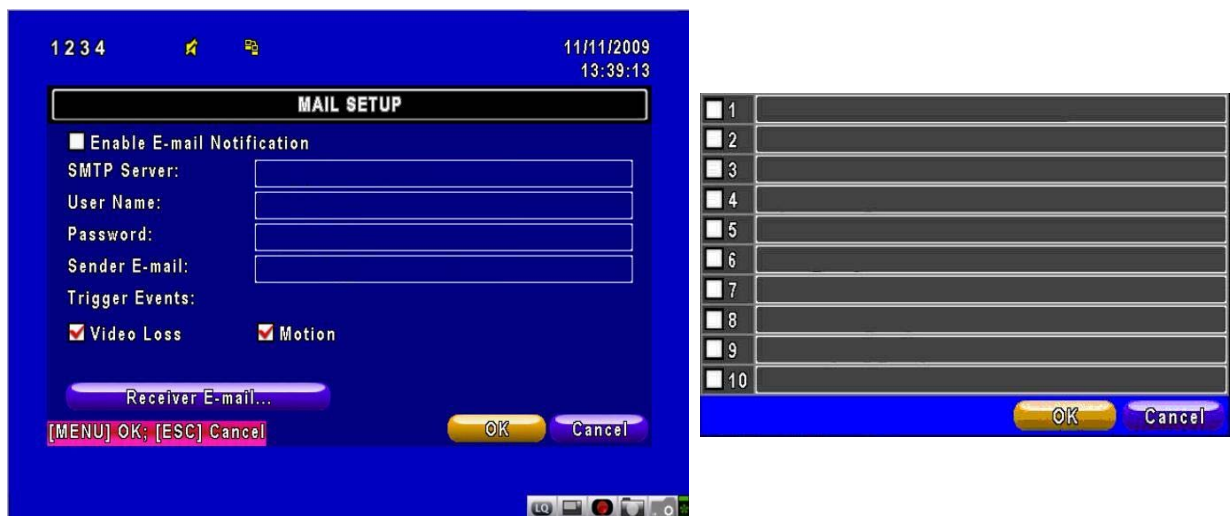


Item	Description
<b>Enable DDNS</b>	Enable/disable DDNS function.
<b>DDNS Server</b>	Enter the registered SMTP Server: <b>ez-dns · I-DVR.NET * · DYNDNS.ORG · NO-IP.ORG · 3322.ORG</b>
<b>SMTP Server</b>	Enter the completed registered SMTP Server. (Including username + Server) If the user name is h.264 and you choose i-dvr as your server, you should enter: <b>h.264.i-dvr.net</b>
<b>User Name</b>	Enter user name.
<b>Password</b>	Enter password.

\* For more detailed I-DVR.NET operation instruction, please refer to appendix I.

### 4-6.4 Mail Setup

When event occurs (VLOSS, MOTION), email will be sent to the receiver account automatically.



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

#### 4-6 SYSTEM SETUP



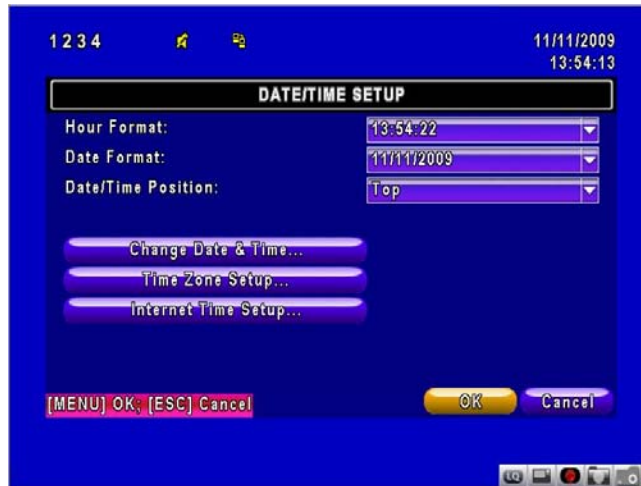
Item	Description
<b>DVR Name</b>	The name of DVR will be shown when users login from remote access.
<b>DVR Location</b>	The location of DVR will be shown when users login from remote access
<b>Language</b>	Click or press ▼ to select OSD language
<b>Remote ID</b>	Default ID is 0. When more than one DVRs are purchased, the DVRs can't be numbered from 1 to 4. For instance, standard remote control can't operate DVR numbered 3. It only responds when use "1 to 4 remote control"(optional).
<b>Display Setup</b>	Enter to set up Display
<b>Date/Time Setup</b>	Enter to set up Date/Time
<b>Device Setup</b>	Enter to set up Buzzer

#### 4-7.1 DISPLAY SETUP



Item	Description
<b>Auto-Seq Interval</b>	Set up duration time in seconds for the interval between channels under Auto-Seq mode.
<b>Show OSD</b>	Turn On / Off OSD display
<b>Show DVR Status</b>	Turn On / Off DVR illustration and record status display
<b>Show Date/Time</b>	Turn On / Off date and time display
<b>Show Channel Name</b>	Turn On / Off channel name display
<b>CRT</b>	Deflicker(only for CRT monitor)
<b>Border Color</b>	Set up the color of border in LIVE , PLAYBACK mode. ( Red, Green, Blue )

#### 4-7.2 DATE/TIME SETUP



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

#### 4-7.2.1 CHANGE DATE & TIME

Setup date and time of DVR manually according to user's local time.



#### 4-7.2.2 TIME ZONE AND DAYLIGHT SAVING TIME SETUP

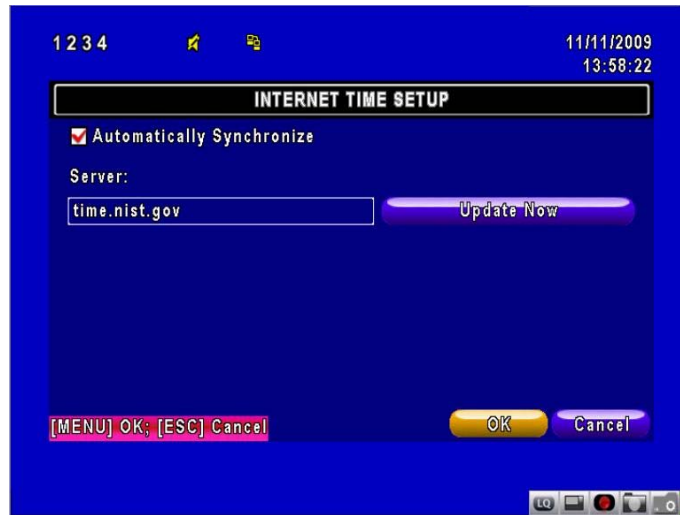
Set up time zone and activate Daylight Saving Time function according to user's DVR location.



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

### 4-7.2.3 INTERNET TIME SETUP

Synchronize your DVR time with internet time server.



Item	Description
<b>Automatic Synchronization</b>	Check to enable DVR automatic synchronization function. Effective by this option selected, DVR will automatically synchronize the time upon rebooting or by every 24 hours after booting.
<b>Update Now</b>	Effectively, Date and Time show on DVR will immediately correspond with those in internet server.

### 4-7.3 DEVICE SETUP



Item	Description
<b>Key Tone</b>	Enable/Disable keystrokes.
<b>Buzzer</b>	Enable/Disable buzzer operation when the alarm is triggered for HDD Error, Video Loss and Motion.

## 4-8 UTILITY SETUP



Item	Description
<b>HDD Initialization</b>	Select to enter hard disk initialization menu. <b>Please stop recording before entering this menu.</b> Enter the menu, system will show all the data (model ,volume ) of HDD that installed in DVR. Check the HDD you'd like to initialize then press "Start". HDD initialization is successful when the status shows "Succeed"
<b>USB Initialization</b>	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's showed "Succeed".
<b>System Recovery</b>	Restore system default values
<b>Reset System Events</b>	Reset all the recording events in DVR.
<b>Copy Setup to USB</b>	Copy configuration to a USB device. There will be a file named 「sdvr_conf.dat」 on your USB.
<b>Download Setup from USB</b>	Download configuration from a USB device into DVR.
<b>Upgrade</b>	Upgrade DVR through USB. Please stop recording and backup setup configuration before upgrading. <b>System will reboot automatically when the upgrade is completed.</b>

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

## 4-9 DIAGNOSTIC



Item		Description
<b>Version</b>		The current firmware version of DVR
<b>IP</b>		The connected IP address of DVR. If disconnected from network, the screen will display" NETWORK DISCONNECT".
<b>MAC</b>		MAC Address of DVR
<b>HDD Status</b>	<b>No.</b>	HDD number
	<b>Volume</b>	HDD Capacity
	<b>Used Rate</b>	Percentage of space used on HDD.
	<b>Status</b>	Shows HDD status. <b>USING</b> means the HDD is being used for recording now <b>GOOD/BAD</b> means the HDD has a known/unknown format for the DVR. (Note: Please initialize your newly-installed HDD before using it.)
	<b>Format Time</b>	The latest format time of HDD



## CHAPTER 5 BACKUP & SEARCH

### 5-1 BACKUP SETUP

User can backup any segment of recorded data in a specified time frame. To do so, either a CD R/W or storage device, like USB, must be connected to the DVR. Recorded data can also backup into NB/PC through our remote access software: 「DVRRemoteDesktop.exe」 and be saved in your assigned path. The format of backup file is *IRF* file that can be played by both “DVRRemoteDesktop.exe” 、 “fileplay.exe” and “CMS”



Item	Description
From	The start time of backup file
To	The end time of backup file
Device	Select USB, PC as the backup device
Free Space	The available space in your backup device. (not available for PC backup)
Refresh	Recalculate the available space of backup device. (not available for PC backup)
Required Space	Show the size of the backup file
Calculate	Calculate the size of backup file
Start	Start backup operation. <b>Be sure to calculate the size of backup file BEFORE operating backup.</b>

**Note!** Do not unplug the USB device or turn off the DVR during the backup process to avoid unrecoverable error.


## 5-2 SEARCH SETUP



Item	Description
Event Search	Event search menu
Time Search	Enter time search menu

## 5-2.1 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  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.

**P.S. Event Records will still be generated even when hard disk is not installed or the record function is not activated. However, the record can't be viewed after selecting it.**

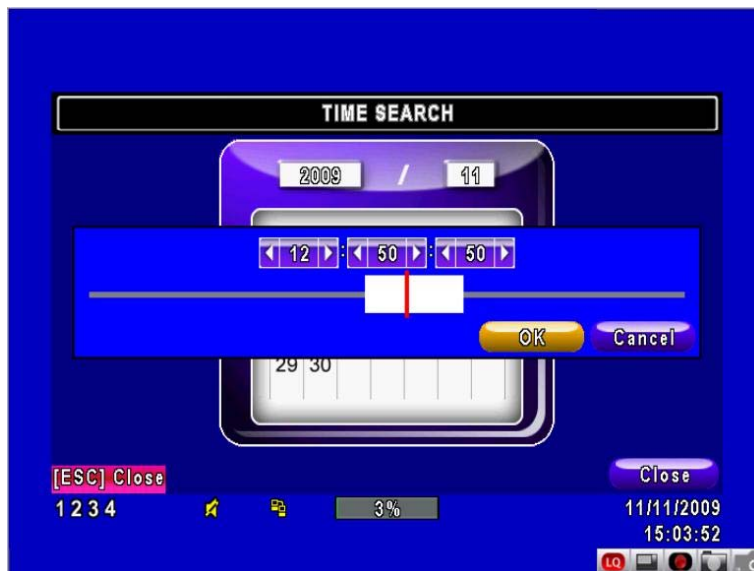
Item	Description	
<b>Page</b>	Switch between pages of events	
<b>Date/Time</b>	Date/time when event occurred.	
<b>Event Type</b>	Event type, defined as following	
	<b>MOTION</b>	Motion Detected
	<b>Video Loss</b>	Video Loss
	<b>Remote Login</b>	user log-in over the network
	<b>Remote Logout</b>	user log-out over the network
	<b>Power On</b>	DVR Power on
	<b>HDD Full</b>	HDD Space FULL
	<b>HDD Error</b>	Detect HDD error
<b>Reboot</b>	DVR Reboot	
<b>Info</b>	The channel where event occurs or login user	

## 5-2.2 TIME SEARCH

TIME SEARCH can search for the specific time of recording data to playback. Press “Enter” or left click on the desired date to playback. Note that dates with recording data are marked with a red square “” “System will start playing back according to the date you 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 “ok”. DVR will playback the selected recording data.



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

## CHAPTER 6 Rempte Software Installation and Setup

### 6-1 AP Software Installation and instruction

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

**p.s. Operation system currently supports Windows XP SP2 and above and Windows Vista, Windows 7**

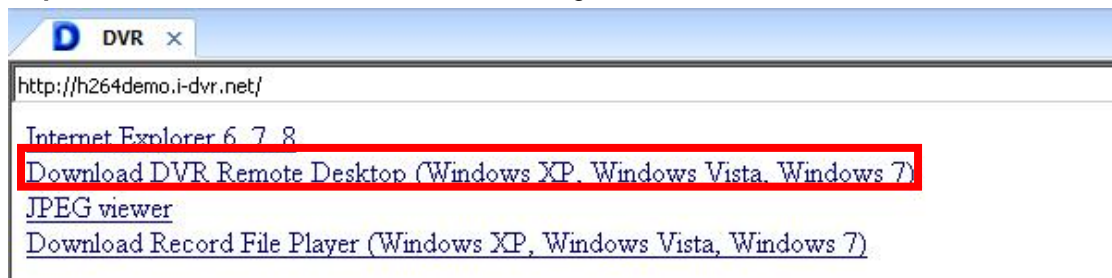
**Step One** : Enter the IP address of DVR in IE browser



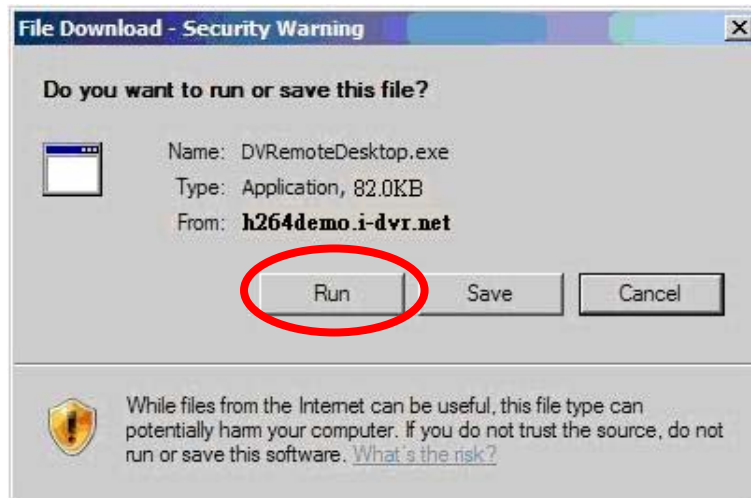
**Step Two**: Windows as below will show up. Please enter the user name and password. Default user name and password is **admin/123456**. Other related setup about user account and password, please check “**4-5 Account Setup**.”



**Step Three**: Click on the link to start downloading the AP software.



**Step Four:** Run or Save our AP software.



**Step Five:** If you choose to run the software, Start window will be shown up. Please enter information of login DVR: IP, Port, Username and Password, or choose "Play Recorded File" to open backup files in your PC.



**Step Six:** You've logged into the DVR



## 6-2 How to do remote monitoring through IE

**Step One** : Enter the IP address of DVR in IE browser. The address appeared in this image is only for demonstration. Actual address is depending on the setup of on-site DVR.

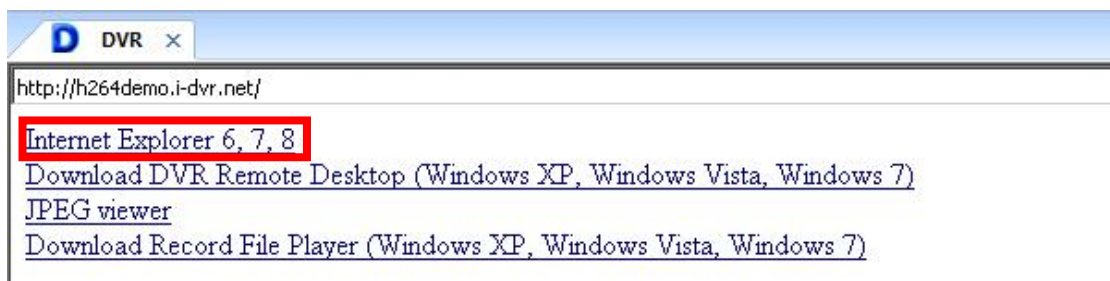


**Step Two**: Windows as below will show up. Please enter the user name and password. Default user name and password is **admin/123456**. Other related setup about user account and password, please check “4-5 Account Setup.” The user name and password appeared in this image is only for demonstration. Actual user name and password depend on the setup of on-site DVR.



**Step Three**: Click on “Internet Explorer 6, 7, and 8” to start downloading the AP software. ( The first option is for IE view, please refer to next chapter for more information)

**p.s. There will be IE connection security issue when clicking this link for the first time. Please refer to index II for Remote Monitoring IE ActiveX Control Installation Instruction.**



**Step Four:** DVR images appear.



### 6-3 AP Software Operation

Open the file “DVRRemoteDesktop.exe”; enter the information of DVR “IP address”, “Port” “Username” and “Password” and click “OK”. You should be able to login DVR successfully and start to use the software. The default username and password is 「 admin/ 123456 」

“DVRRemoteDesktop.exe” AP software provides some extra functions for remote users. Please check **Table 6-3.1** for minimum system requirements for “DVRRemoteDesktop.exe” operation.

**Table 6-3.1** System Requirements for AP software

CPU	Intel Pentium 4 above
OS	Microsoft Windows 7 · Windows Vista · Windows XP SP2 above
RAM	512M above
VGA Card	Needed to support DirectX9.0 (Above) <b>Note 1</b>
Others	DirectX 9.0 above

**Note 1:**

Known VGA card that support DirectX9.0 currently:

**NVIDIA:** Geforce FXseries, Geforce 6series, Geforce 7series, Geforce 8series, Geforce 9series, Geforce 200series, etc.

Or

visit:[http://en.wikipedia.org/wiki/Comparison\\_of\\_Nvidia\\_graphics\\_processing\\_units](http://en.wikipedia.org/wiki/Comparison_of_Nvidia_graphics_processing_units)

**ATI:** Radeon R300series, Radeon R400series, Radeon R500series, Radeon R600series, Radeon R700series, Radeon HD 3xxx IGPseries, Mobility Radeonseries (9500 above), Mobility Radeon Xseries, Mobility Radeon HDseries, or FireGL Vseries etc.

Or visit: [http://en.wikipedia.org/wiki/Comparison\\_of\\_ATI\\_graphics\\_processing\\_units](http://en.wikipedia.org/wiki/Comparison_of_ATI_graphics_processing_units)

**SiS:** SiS 67Xseries, or SiS 77Xseries etc.

Or visit: [http://www.sis.com/support/support\\_compare.htm](http://www.sis.com/support/support_compare.htm)

**Intel:** 91Xseries, 94Xseries, 96Xseries, G3Xseries, or G4Xseries, etc.

Or visit: [http://en.wikipedia.org/wiki/Intel\\_GMA](http://en.wikipedia.org/wiki/Intel_GMA)



## CHAPTER 7 SPECIFICAITONS

<b>1. VIDEO</b>		
Input Level		1.0 Vp-p±10% Composite, 75Ω Balanced
Display Speed	NTSC	120fps
	PAL	100fps
Display Resolution	NTSC	720(H) X 480(V)
	PAL	704(H) X 576(V)
Monitor Output		2Vp-p Composite, 75Ω Balanced
<b>2. RECORDING</b>		
Compression Method		H.264
Recording Speed		Refer to table 7-1
Recording Resolution	NTSC	720 X 480, 720 X 240, 360 X 240
	PAL	704 X 576, 704 X 288, 352 X 288
Quality	Independent for each channel	Below Basic/ Basic/ Normal/ High/ Highest
Schedule		Setup by “minute” as unit
Mode		Manual / Event (Motion) / Schedule
Method		By resolution, fps and quality Setup fps and quality separately for normal and event recording
<b>3. SATA DEVICE</b>		
Capacity	Internal Storage	1 HDD
Type		SATA / SATA II compatible
<b>4. CONNECTIONS</b>		
Video Input		4 ports
Video Output		BNC 1 port, VGA 1 port (max.1920 X 1080)
Audio Input		RCA 1 CH
Audio Output		RCA 1 CH
USB 2.0		USB memory stick, USB Touch Panel
USB 1.1		USB Mouse
Remote		Remote control
External I/O		N/A
Ethernet		1 RJ45 connector, 10/100 Mbps
<b>5. ELECTRICAL</b>		
Power Source		DC 12V / 3A
<b>6. ENVIRONMENTAL</b>		
Operation Temperature		5°C ~ + 40°C
Humidity		Less than 90%
<b>7. PHYSICAL</b>		
Dimension		300(W) x 175(D) x 46(H) mm
Weight		1.3 KG ( not including HD )

8. BACKUP		
BACKUP	USB Stick	Video Data, Audio
	Network	Video Data, Audio
9. SEARCHING & PLAYBACK		
Searching Type		Event/ Time
Playback speed		120 FPS
10. MULTI-REMOTE SURVEILLANCE		
Monitoring Environment		Web/AP/CMS
Max. client		Supporting multi-client (3 clients accessible)
11. OTHERS		
OS		Embedded Linux
Multi Task	Pentaplex	Live · Record · Playback · Network · Backup
Control Device		Remote Control / Virtual Keyboard / Mouse / AP Software
PC Viewer		Direct monitoring of DVR's HDD on PC
Numbers of event list		10000

**Table 7-1**

Recording Speed (Independent setting for each channel)	NTSC	360 x 240	120 FPS
		720 x 240	60 FPS
		720 x 480	30 FPS
	PAL	352 x 288	100 FPS
		704 x 288	50 FPS
		704 x 576	25 FPS
Compression Method		H.264	

## CHAPTER 8 MOBILE APPLICATION INSTALLATION AND USAGE

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

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

### **8-1 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

**\*Please download both “DVRH264.jar” and “DVRH264.jad” to operate the function.  
Note that users with Sony Ericsson will only need to download “DVRH264.jar.”**

#### **8-1.1 Mobile Application Installation**

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

Step 1: The mobile application called “**DVRH264.jar**” 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 packed with DVR through Bluetooth or USB cable.

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



## 8-1.2 Mobile Application Operation

After the installation, enter the Program Files menu in your mobile device to run a file called "DVRH264".

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

### 8-1.2.1 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.



ABC

**Edit Data**

IP:  
60.250.134.116

PORT:  
80

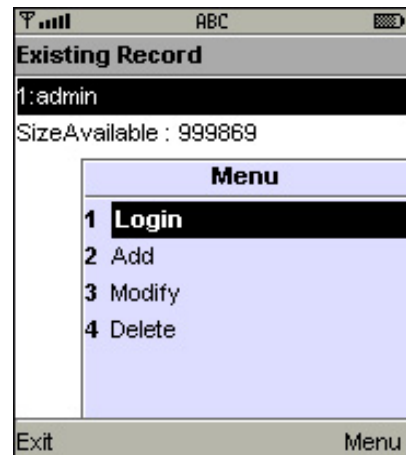
ACCOUNT:  
admin

PASSWORD:  
\*\*\*\*\*

Back ↓ OK

### 8-1.2.2 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.



ABC

**Existing Record**

1:admin

SizeAvailable : 999869

**Menu**

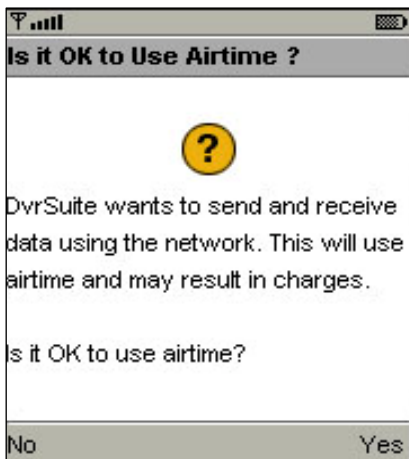
1 Login

2 Add

3 Modify

4 Delete

Exit Menu



ABC

**Is it OK to Use Airtime ?**

?

DvrSuite wants to send and receive data using the network. This will use airtime and may result in charges.

Is it OK to use airtime?

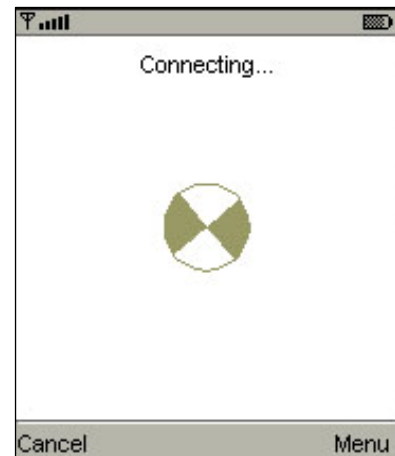
No Yes

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

Network connectivity will take some time. It'll be affected by networking environment and bandwidth flow.

Live image will show up after a successful connection.

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



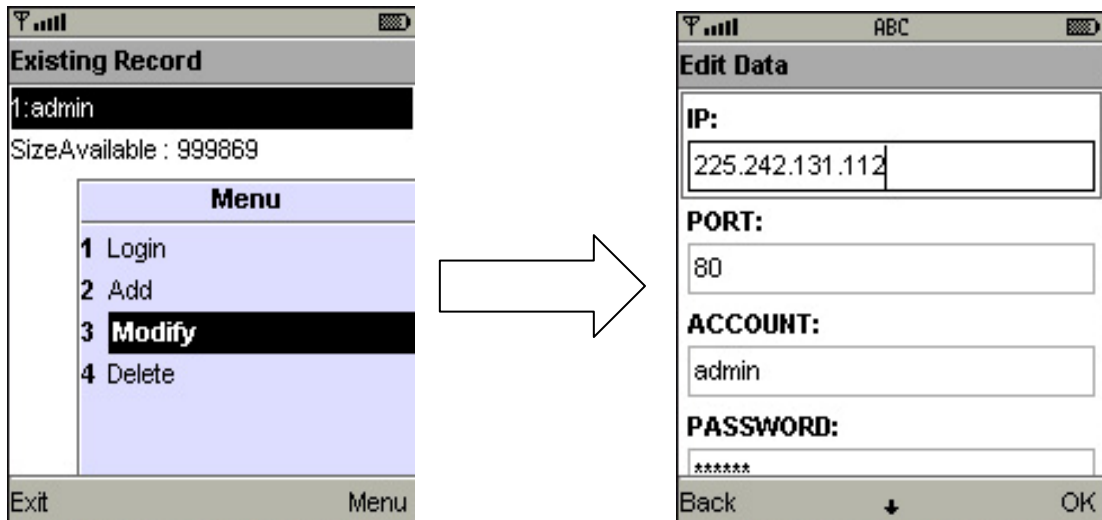
ABC

Connecting...

Cancel Menu

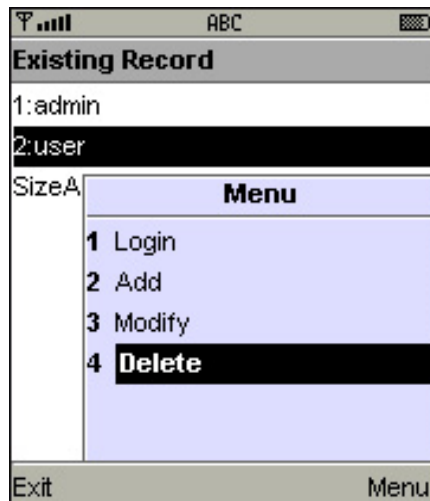
### 8-1.2.3 Modify the Login Information of DVR

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



### 8-1.2.4 Delete the Login Information of DVR

**“Delete”** command can be used to remove the DVR information if it is no longer useful. Select the DVR on the name list then choose **“Delete”**



### 8-1.3 Live Monitoring Operation

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

### 8-1.3.1 Scroll the Image

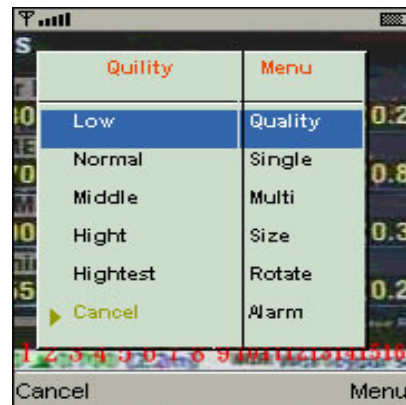
You can use the keypad on your mobile device to scroll the image if it's oversized.

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

### 8-1.3.2 Image Quality Setup

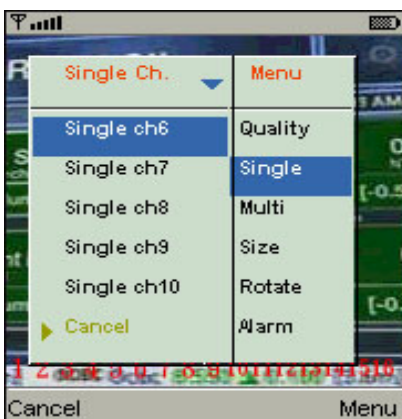


Select "Quality" under the "Menu"



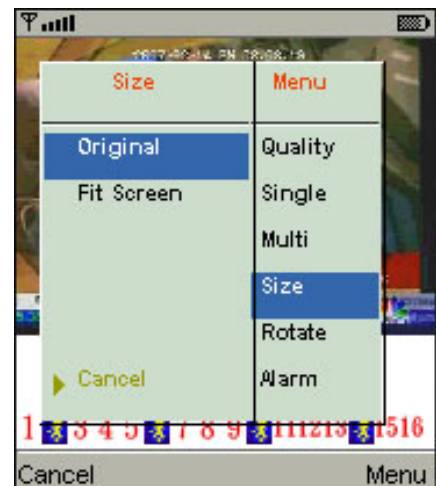
There will be 5 levels for your to choose: **Low** 、  
**Normal** 、**Middle** 、**High** and **Highest**.

### 8-1.3.3 Channel Display



Select "Single" under the "Menu", there will be all channels of your DVR in list for you to choose.

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



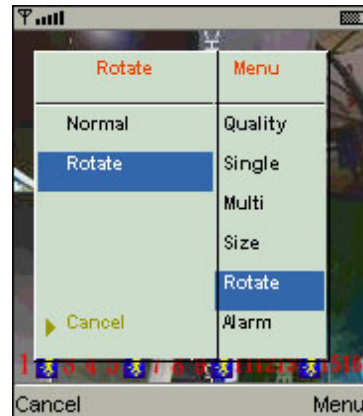
### 8-1.3.4 Size of Image

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.

### 8-1.3.5 Rotate the image

The Live image can be displayed in normal or rotate to 90 degrees. Select “**Rotate**” under the “Menu” for this operation.



### 8-1.3.6 Alarm

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

Graphical icons below will be shown on the status:



: Motion detected



: Sensor triggered



: Video loss

Select the “**Alarm**” under the “Menu” to switch this function on or off.



## 8-2 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 above.

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

### 8-2.1 Mobile Application Installation

Please follow the steps cited 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 packed with DVR through Bluetooth or USB cable.



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.





## 8-2.2 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 DVR. Press "OK" to bring up the operation menu, see below chart to 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"> <li>• Choose the DVR that you'd like to log on , then press "OK"</li> <li>• <b>PS. The Live can not be displayed in your mobile when the recoding is off.</b></li> <li>• <b>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.</b></li> </ul>
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.

### 8-2.3 Operation under the LIVE monitoring.

After successful logon 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



Item	Function	Description								
Channel 1~16	Display for CH 1~16	Choose from CH1~16 to display. (Show only supports a single partition)								
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 “ <b>Status Bar</b> ” to inactivate this function. <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Icon</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td></td> <td>Motion Detect</td> </tr> <tr> <td></td> <td>Sensor Trigger</td> </tr> <tr> <td></td> <td>V-Loss</td> </tr> </tbody> </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 “ <b>Alarm</b> ” under the “View” to inactivate this function.								
Sound	Sound	If the channel video with sound input, turn this option to hear the real sound .								
Full Screen	Full screen display	You can choose one channel to display in full screen by check this function.								

## CHAPTER 9 CMS INSTALLATION AND USAGE GUIDE

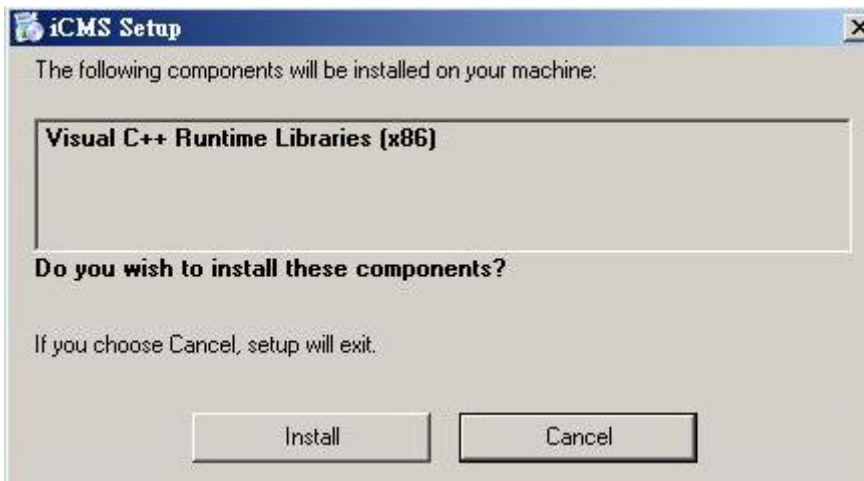
### 9-1 CMS Installation

#### System Requirement:

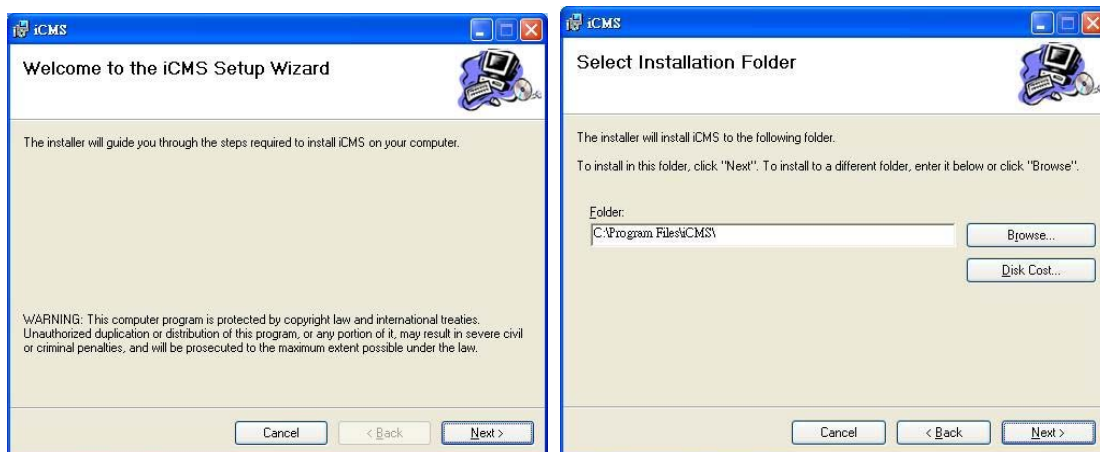
- \* Intel Pentium 4 processor or equivalent.
- \* Microsoft Windows Vista 、 Windows XP 、 Windows 2003 Server.
- \* Besides OS and other required APs, there will be 512MB remaining memory needed or above.
- \* 512MB memory above.(500M requested for group DVR connection and 180M for single DVR)
- \* 20MB HD space. Recording and image capturing require extra space for storage.
- \* VGA Card needs to support DirectX9 and function well while running it. Please refer to p40 Note 1.

#### Installation:

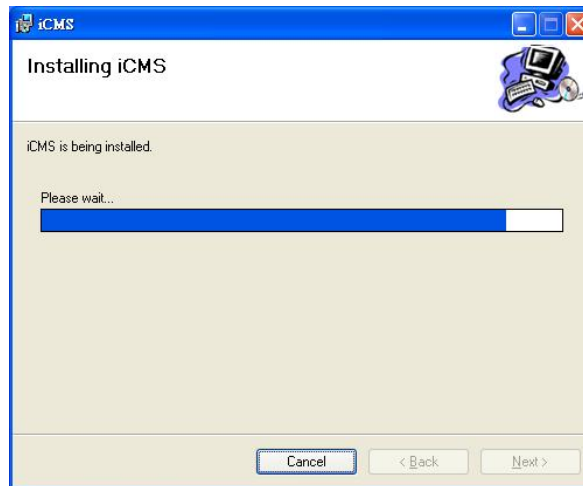
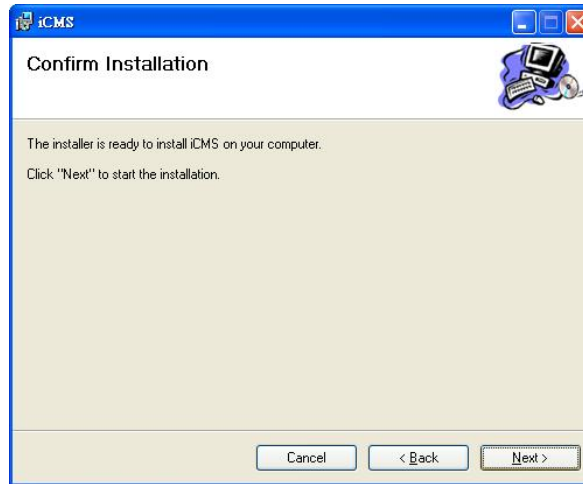
1. Connect to the manufacturer's website and download the CMS software.
2. Decompress and execute "**setup.exe**".
3. If "Visual C++ Runtime Libraries" has not been installed before in the operating PC, the following sign will suggest an installation automatically.



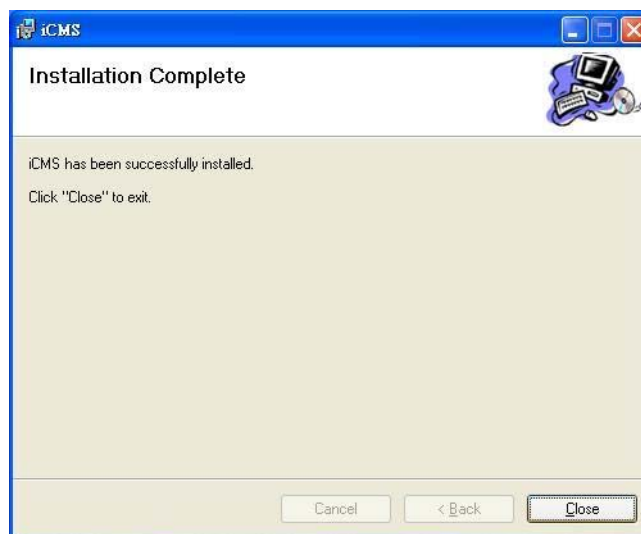
4. Select "**Next**", and then select "**Browse**" to change installation path if needed. To check available space on hard disk, please select "**Disk Cost**" then please select "**Next**" to the next step.



5. "Confirm Installation" window shows. Select 'Next' then the installation starts.

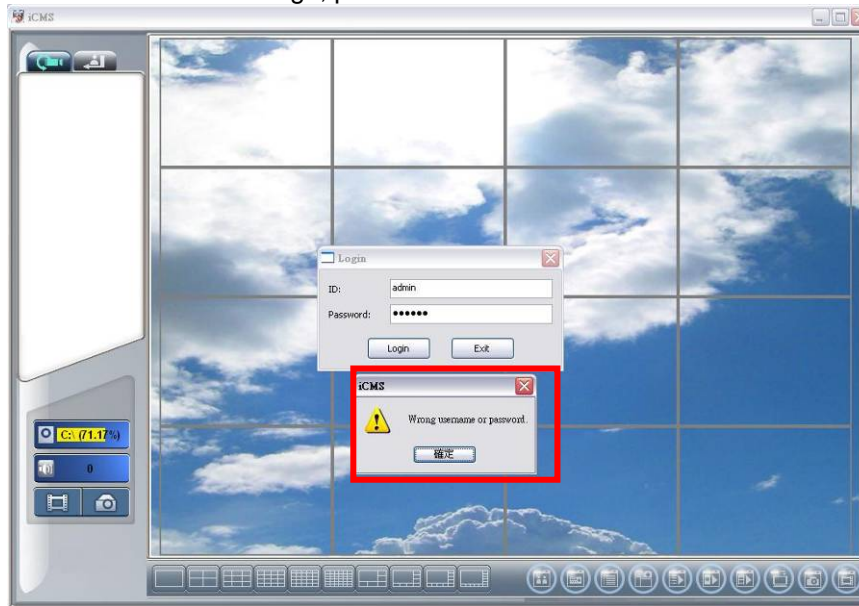


6. Select 'Close' to finish installation when the "Installation Complete" window shows.



## Instruction for Log-in Failure to CMS After Upgrade

Log in to CMS with the default account and password after CMS upgrade. If an error message occurs as shown in the image, please follow the instruction to solve the error.



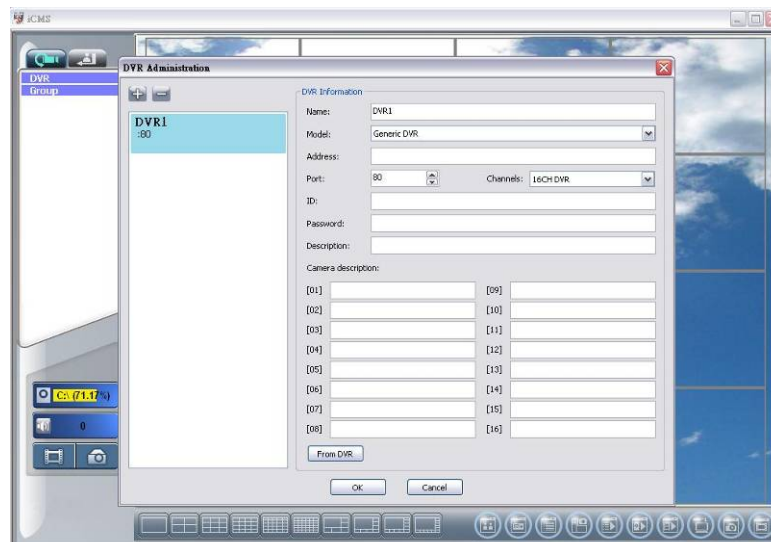
Step 1: Please enter file manager to enter folder, "Windows" and then folder "System32" (ex:C:\Windows\System32)



Step 2: Locate file, "iCMS.dat" and delete it.



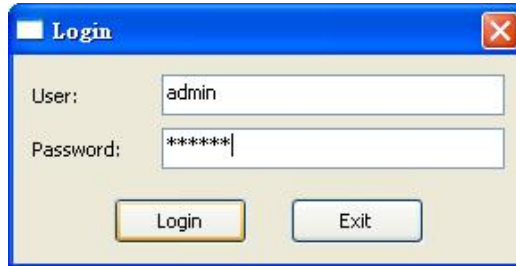
Step 3: Restart CMS. Log-in successfully.



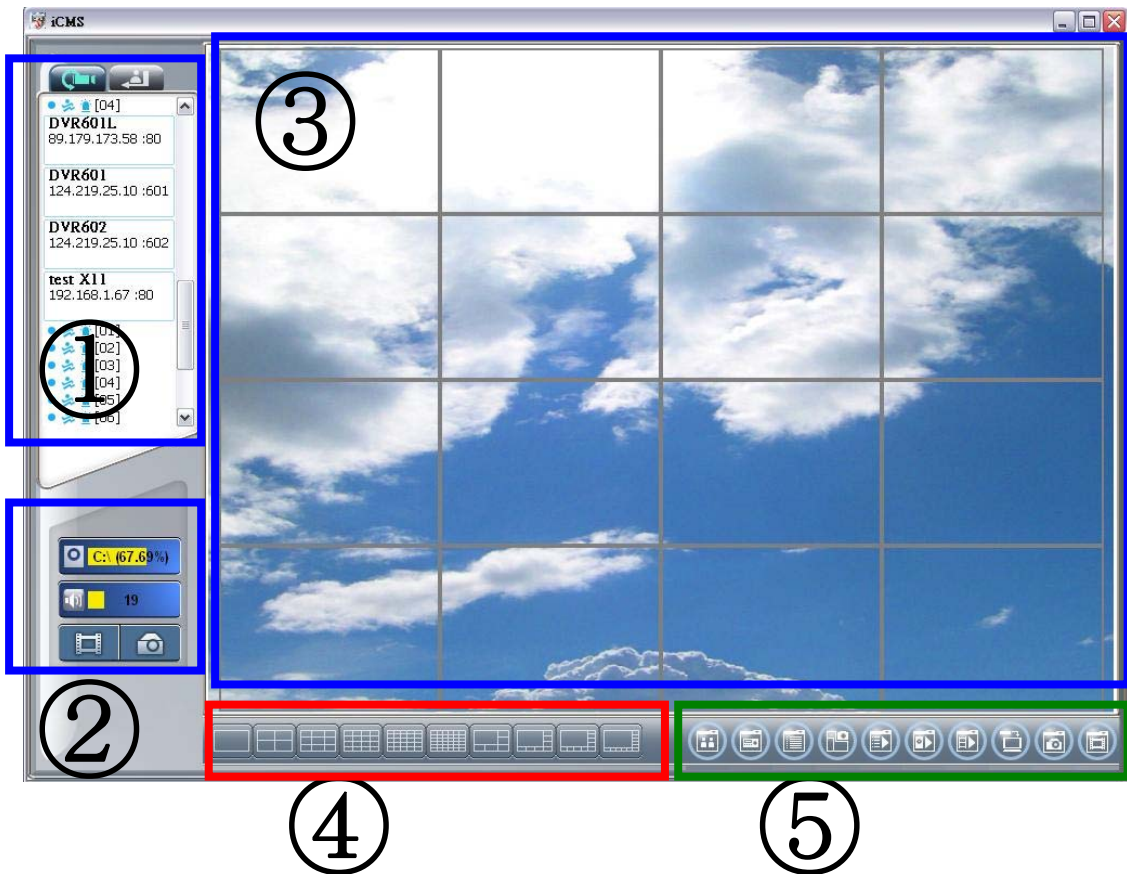


## 9-2 CMS LOGIN AND ENVIRONMENT

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





After successful login, the following image shows on your screen:



① <b>DVRs, Groups &amp; Events</b>	Information about DVRs, groups and events. See "9-3 Information List" for more detail.
② <b>PC information and control</b>	Information about local PC's hard disk, volume, recording...etc. See "9-4 PC Information and Control" for more detail.
③ <b>Main Display</b>	Live image display area. See "9-5 Main Display" for detail.
④ <b>Display Modes</b>	Several choices of display modes supported by CMS.
⑤ <b>Operation Bar</b>	A set of 10 operations are provided by CMS. See "9-6 Operation Bar" for detail.

### 9-3 DVRs, Groups & Events

Icon	Description
	View list of logged in DVR / Group.
	View Logs: list all the event information of DVR

#### 9-3.1 View DVR / Group List




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

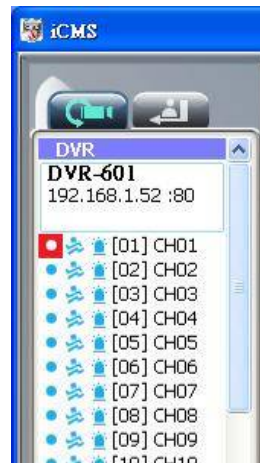
On the DVR list, **double left click on a connected DVR will show its image in main display.** See "9-6.2 DVR Administration" for further information.

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 "9-6.3 for Group Administration" for further information.



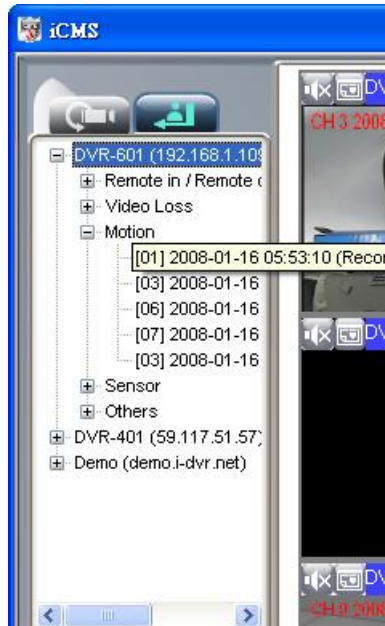
Left-clicking on a connected DVR will expand/collapse status of its all channels as below:

Icon	Description
	Video Loss
	Motion Detected
	Sensor Triggered



### 9-3.2 View Event Logs

Under this page, all the events of a DVR can be expanded/collapsed in the order of Remote in/Remote out, Video Loss, Motion, Sensor, Others (Power Reset, Key Lock, Key Unlock, HD Full).



### 9-4 Local PC Information and Control

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

Icon	Function	Description
	<b>HDD info</b>	Shows the ratio of available space / HDD capacity of C:\ drive (where CMS is installed).
	<b>Recording Directory</b>	Setting Recording Directory. (Default is C:\Program files\iCMS)
	<b>Recording Cycle</b>	Set the capacity size of the Recording space. (minimum is 10MB)
	<b>Volume</b>	PC volume or playback volume control bar.
	<b>Recording</b>	Record live image to local PC storage. To view locally stored data, use "Record" under the operation bar. Also see "9-6.6 recording data" for detail.
	<b>Snapshot</b>	Take snapshot to save in local PC storage. To view all the snapshots you've taken, please go to "Snapshot" under the operation bar. See "9-6.5 Snapshot data" for detail.





## 9-5 Main Display

The main display area is where the live image of DVR is shown. You can drag to change the location of screen for each channel and turn on/off audio signal with mouse-click.

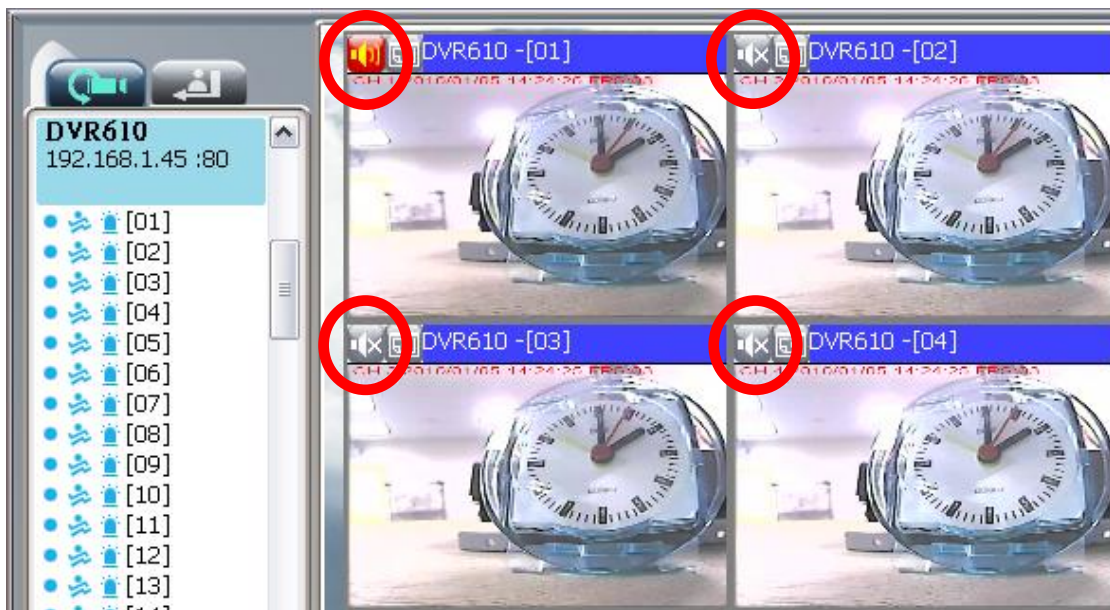


### 9-5.1 Audio Control


In live mode, you can turn on/off the audio signal of Ch1~Ch4:

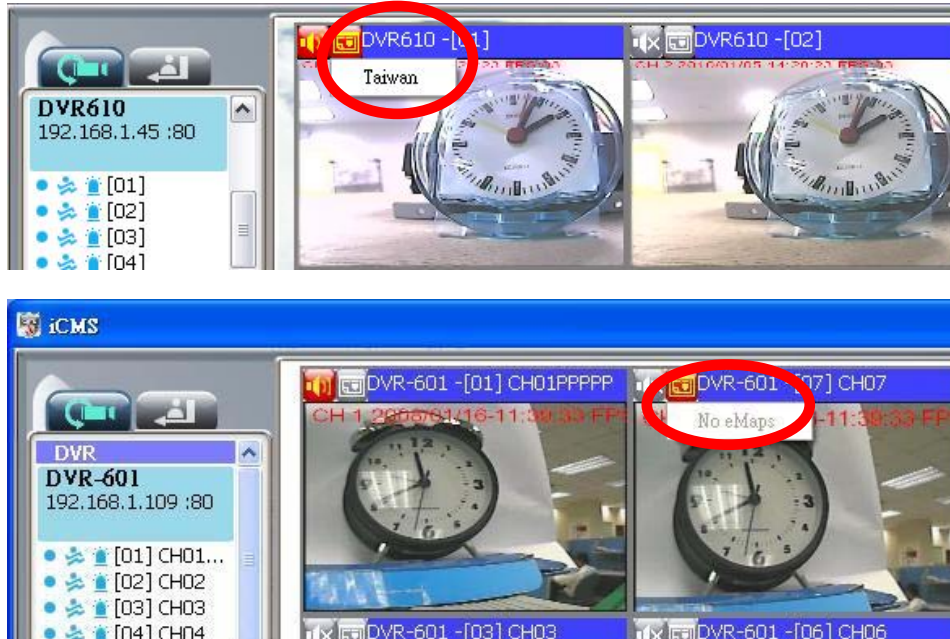
-  Audio signal is On
-  Audio signal is Off

Turn on/off by clicking on the graphical icon, please note there can allow only one channel's audio signal to be on at one time.



## 9-5.2 eMAP Display

In Live mode, pressing  will bring the e-MAP drag-down menu. If the channel has been set up to use e-MAP, the menu will show all the e-MAP titles that have been entitled to this channel; otherwise, "No eMaps" will be shown. Please check "9-6.4 eMAP administration" for setup information.



### 9-5.3 PTZ Control

In the main display, right click on the channel will bring up PTZ control panel as below.



Icon	Description
8 direction key	Rotate the PTZ
	ZOOM+ : Zoom in
	ZOOM : Zoom out
	Setup the PTZ spot as pre-set N.
	FOCUS+ : Focus in
	FOCUS- : Focus out
	Move to pre-set N.
Set PTZ Preset	Setup 16 pre-set N.
Goto PTZ Preset	Move to specific pre-set N.
	Activate auto pre-set tour*
PTZ Sensitivity	Setup PTZ sensitivity*
	Setup the "start" and "end" of liner scan.*
	Activate the liner scan cruise.*
B	Adjust the Brightness (Down is +)
C	Adjust the Contrast (Down is +)
S	Adjust the Sharpness (Down is +)











\*PTZ communication protocols from different brands aren't compatible 100% sometimes. Therefore, some of these functions may be unavailable.

## 9-6 Operation Bar

10 Operations to be listed as below:





**Table 9-6.1** description of 10 operations:

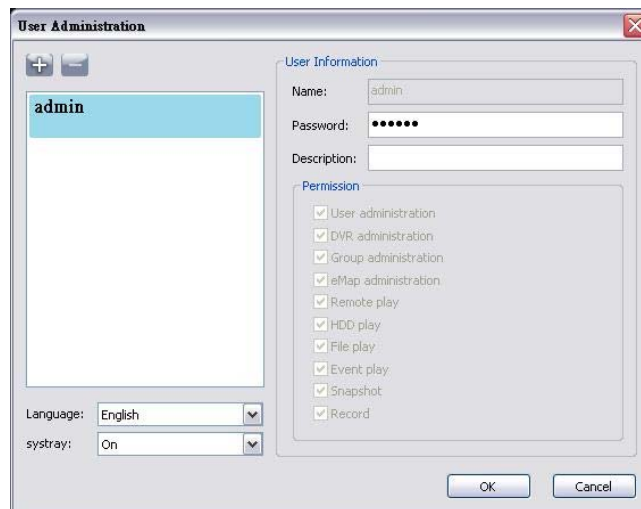
Icon	Description
	User Administration. Please see "9-6.1 User administration"
	DVR Administration. Please see "9-6.2 DVR Administration"
	Group Administration. Please see "9-6.3 Group Administration"
	eMap Administration. Please see "9-6.4 eMap Administration".
	Remote Playback. Please see "9-6.5 Remote Play".
	HDD Playback. Please see "9-6.6 HDD Play"
	File Playback. Please see "9-6.7 File Play"
	Event Playback. Please see "9-6.8 Event Play"
	Snapshot Data. Please see "9-6.9 Snapshot"
	Recording Data. Please see "9-6.10 Recording"

### 9-6.1 User administration

Before the CMS can be used on a PC, user accounts should be added with proper authority. Each user should also be assigned 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 is assigned. The administrator should assign proper authority to each user. These user accounts can be deleted or edited later on.

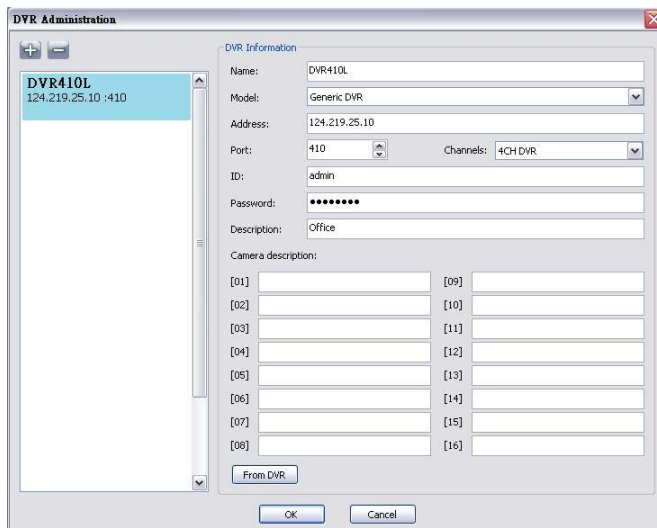
Select "OK" to save the setup.

Icon	Description
	Add a user account. The default authority is with none permission.
	Delete a user account.
Language	Switch display language
systray	If the turn on this feature, when the program reduced, it will be based in the system tray icon. (This feature is switched on / off, the need to re-open the CMS until after the program in force)



### 9-6.2 DVR Administration

DVR connections can be added to or deleted from the CMS and their information can be edited. DVR's channel names can be entered here or downloaded from the DVR by pressing 'From DVR'. Select "OK" to save the information.



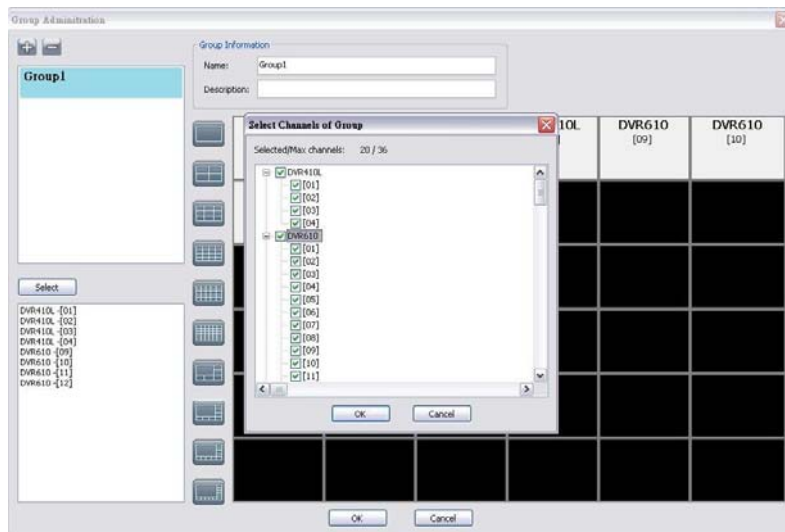
- Name:** DVR Name(Unrepeatable)
- Model:** DVR Model
- Generic:** For General Models
- Generic MainStream:** For DualStream Model
- DUAL SDVR:** For MPEG4 2U Models
- Address:** DVR IP Address
- Port:** DVR Network Port
- Channel:** DVR Camera Number
- ID:** DVR Login Account
- Password:** DVR Login Password
- Description:** Other Description
- Camera Description:** Carera Description
- From DVR:** Load Camera name from DVR

### 9-6.3 Group Administration

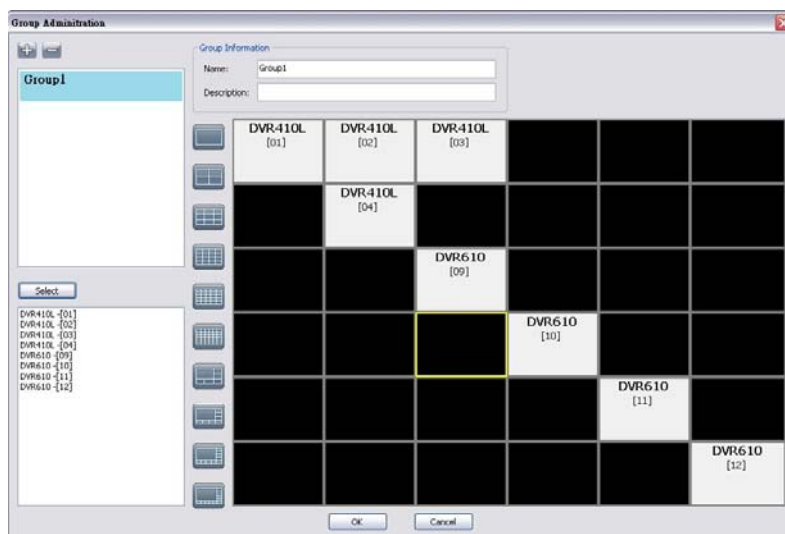
A 'Group' means a set of video channels from one or many DVRs, which means, user can organize channels from different DVRs to be set in a group. This function allows you to monitor and manager channels from multiple DVRs easily and flexible.

#### Steps:

1. Add a new group and set its name and description.
2. Click '**Select**' which will bring up a new window.
3. Check the specific channels that you'd like them to be included in the group. To include all channels of a DVR, just check the DVR.(1 Group up to select 36 camera)



4. Click "**OK**" to return to the previous window.
5. Select a display mode.
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.
7. You can '**Select**' again to add other channels, but the un-saved channel locations will be lost.
8. Click "**OK**" to save the setup.




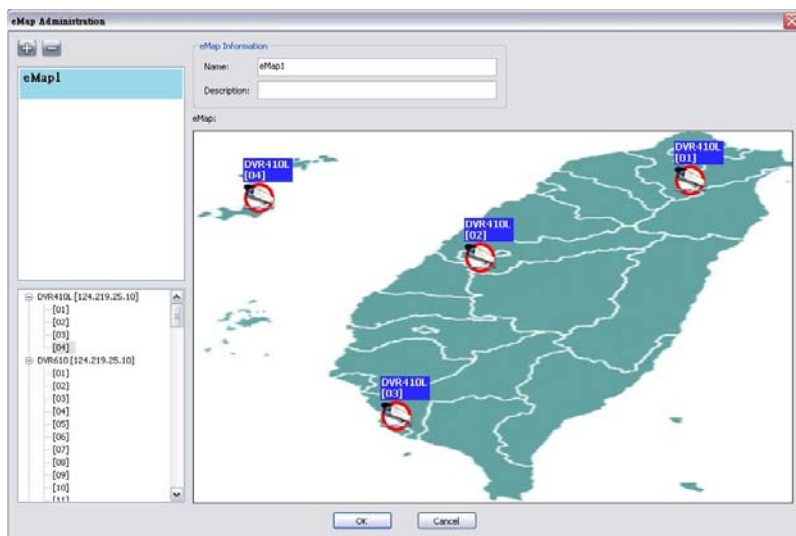


## 9-6.4 eMap Administration

If geographical locations are relevant, or if it is desired to use a picture as the background, eMap can be used for the purpose. With eMap, the background picture can be picked by the user and channels from multiple DVRs can be placed and dragged around on the picture.

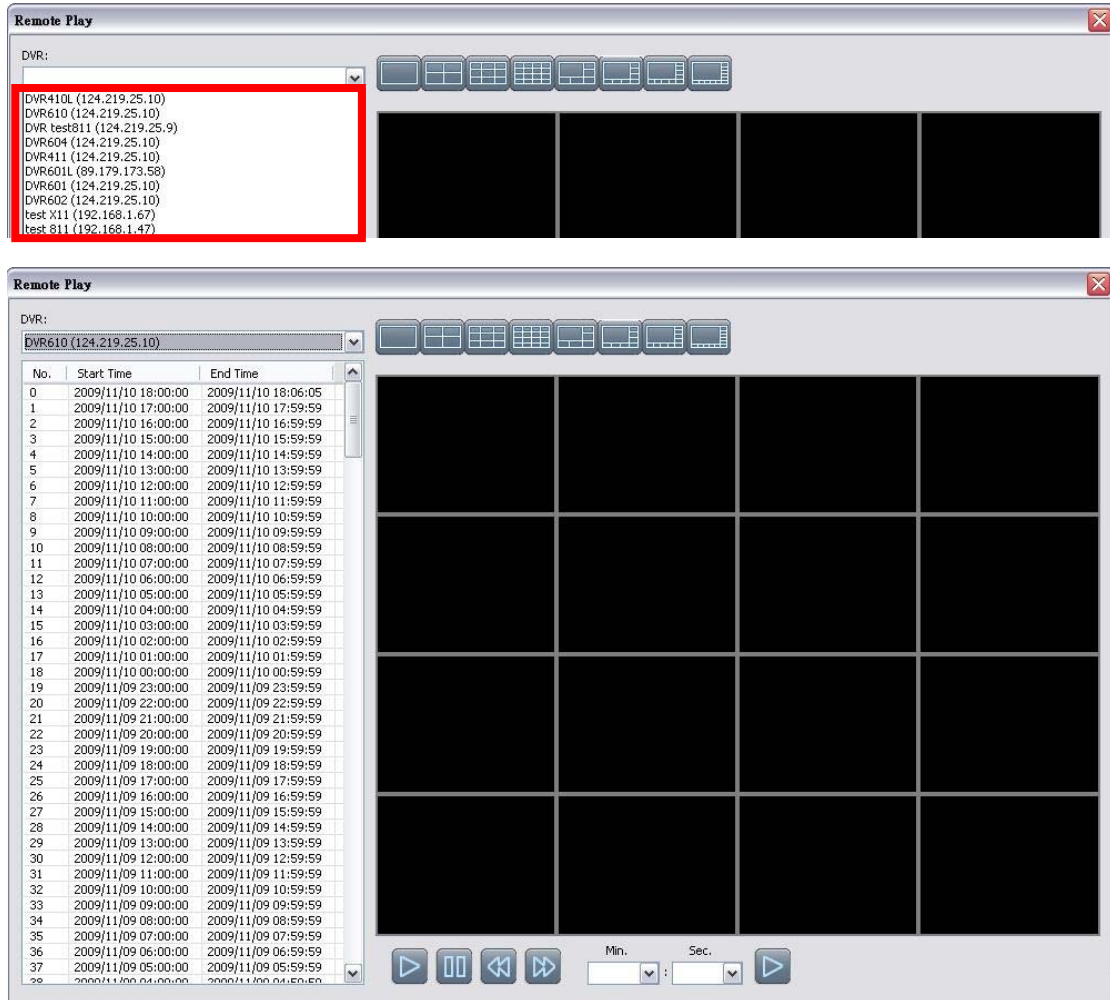
Steps to follow:







1. Click  and a path for the picture will be prompted.
2. Select a picture, click OK and the picture will show in the right panel.
3. Drag channels in the left lower corner onto the picture to any position.
4. To delete a channel already on the picture, right click the channel and click 'Remove'.
5. Click OK to save.



## 9-6.5 Remote Play

Video images recorded on a DVR can be displayed on a remote CMS. With Remote Play function, select a DVR and a display mode on top of the screen. After the recorded segments are listed below, double click on one to show its image on the right.

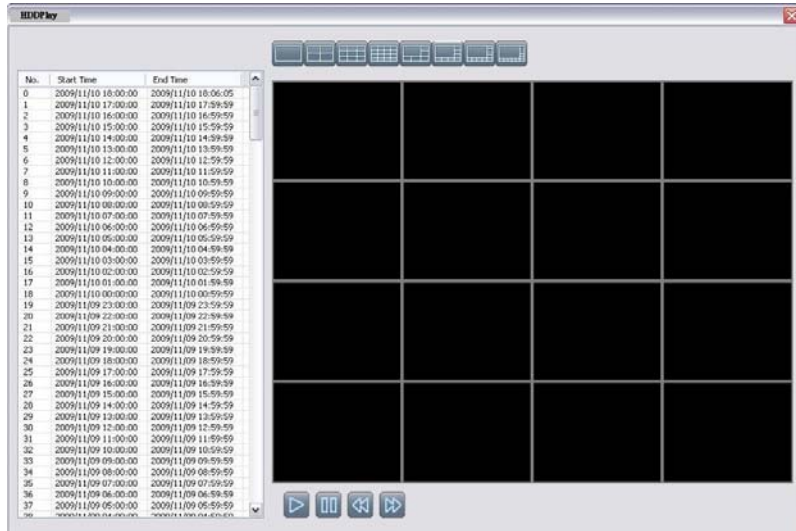


Icon	Description
	Start playing.
	Pause.
	Fast forward.
	Fast rewind.
	Select the clip you want to watch the number of minutes and seconds, Press the right button  is set to start playing



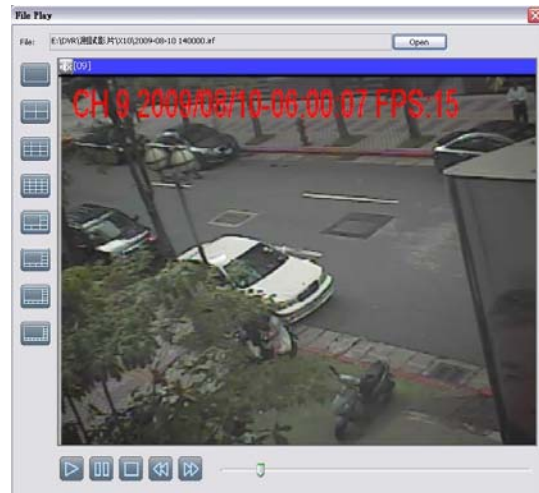
### 9-6.6 HDD Playback






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



### 9-6.7 File Playback

You can play the recorded .irf files by "File Play" in CMS. 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.
	Fast forward.
	Fast rewind.

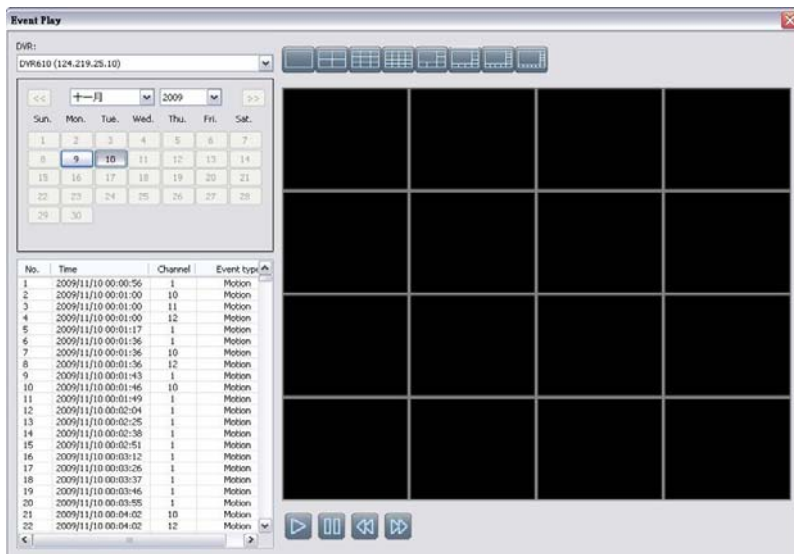
## 9-6.8 Event Playback

Event recordings on the DVR can be played back in CMS.

Steps to follow:

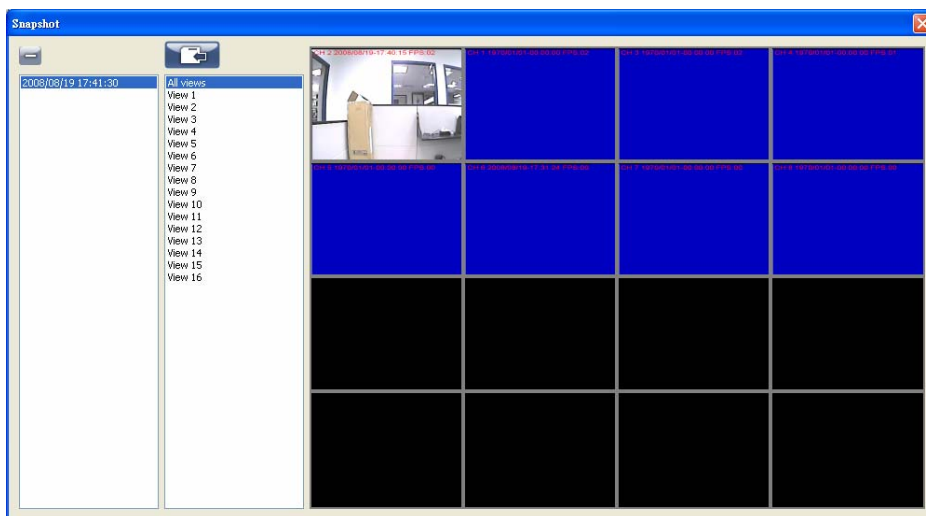
1. Select a DVR and a display mode.
2. Select a date.
3. Double click an event and play back the images on the right.

Use buttons at the bottom to control the playback.



## 9-6.9 Snapshot Data

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



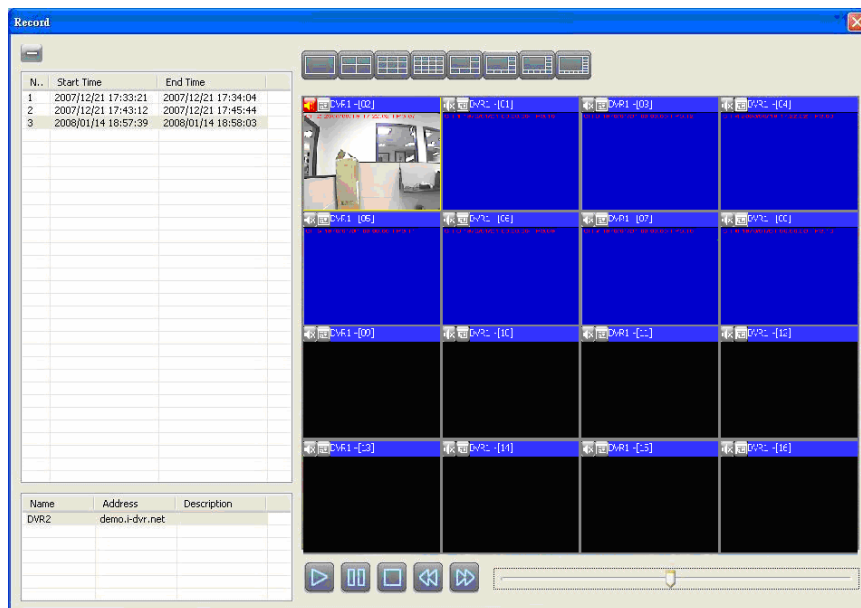
\*Capture images of the date and time will follow the PC-time display

### 9-6.10 Recording Data

It can play all the recording files you've recorded in line in "Recording Data". You can play or delete them here.

Steps to follow:

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



## APPENDIX I I-DVR.NET REGISTRATION

### DDNS Registration on I-DVR.NET

In the package of each DVR, you will find a sticker shows account information including username and password that allows users to login I-DVR.NET for registration.

To register DDNS on I-DVR.NET, please follow the steps as shown.

**Step 1.** Please open IE browser and then enter “ <http://i-DVR.NET/logon.asp> ” in IE browser bar. Next, “Control Panel Logo” dialog will appear. Enter the username and password provided by the sticker and then press, “Logon.”



**Step 2.** After login successfully, enter name at “host” in “Add New Record” dialog. For example, “icatchddns” is the host name, and then the address will be “icatchddns.idvr.net.” Select “Standard” type and enter an IP address of the DVR. Input known IP address if any, or press the “Add New” button if none.

Please enter any name by your choice at Column, “host.domain”  
For example, “hostname”  
Therefore, IE address will be “hostname.i-dvr.net”

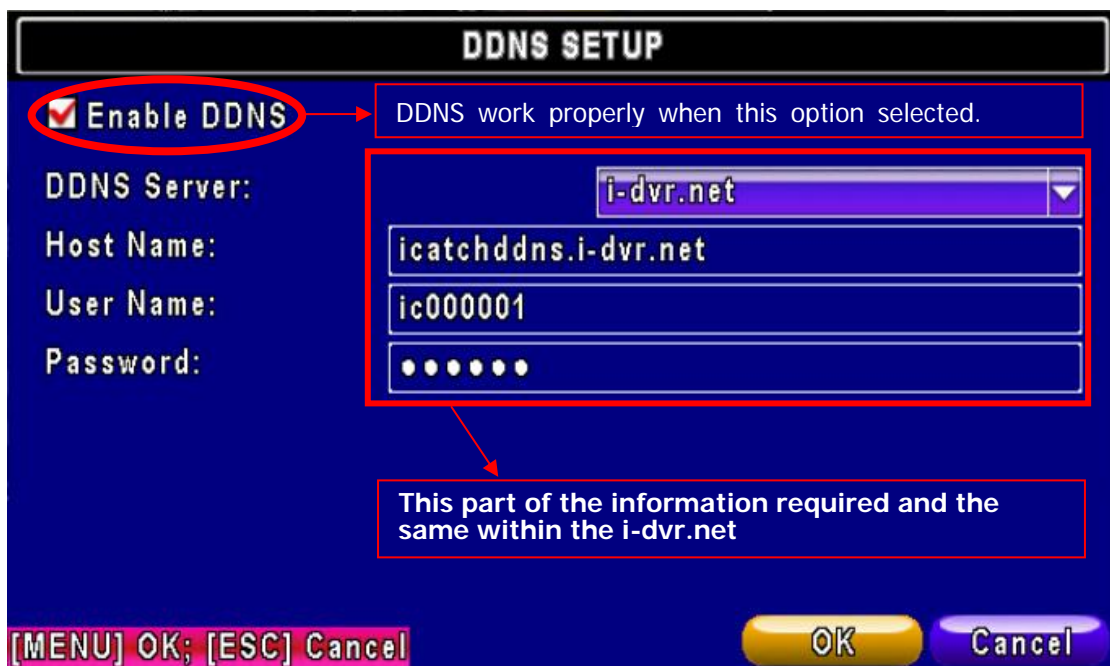
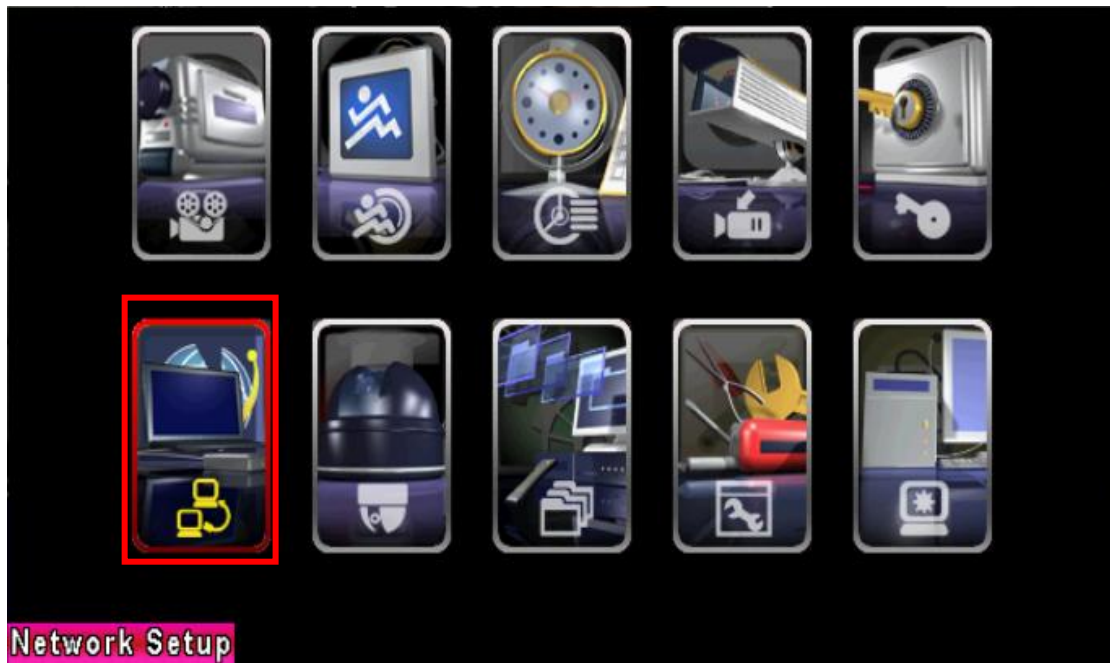
System will automatically show the current computer IP.  
If the DVR IP is known, you can type it in the column.  
If not, you can press “insert” button.

**Step 3.** The “Host Manager” dialog will show “insert succeed” when user setup successfully. The “host.domain” column will show up the setup just entered. Next, enter the DVR the same time setting the DDNS client machine information. If DDNS set up at DVR side successfully, the website will update the IP information in one minute. The IP column will be renewed to the corresponding IP address by pressing “F5: refresh” button.

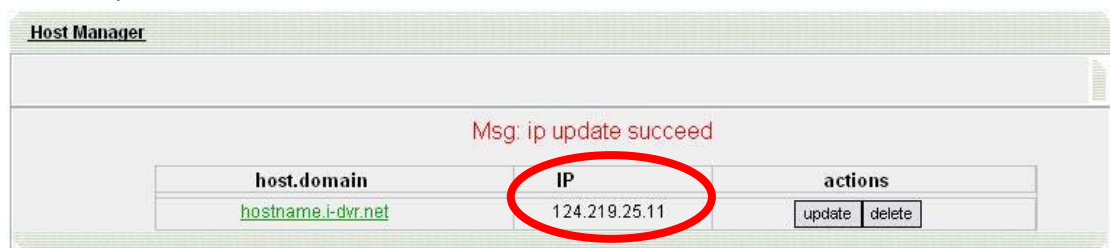
“host.domain” is named by your choice.  
“icatchddns.idvr.net” is what the main server generates

If DVR IP has any changes, there are updates  
Here at the same time. Press, “F5: Refresh”  
And then IP column will update automatically  
to it’s real IP Address.

**Step 4.** Enter DVR → Main Menu → Network Setup → DDNS. Activate DDNS functions and input related information.



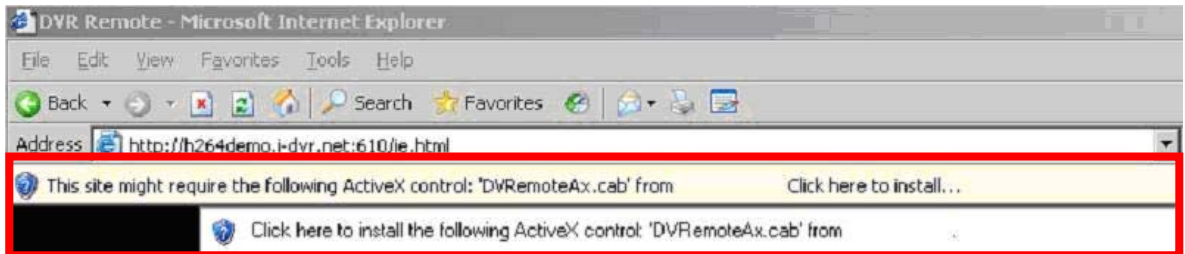
**Step 5.** Back to the i-dvr.net, on this page by pressing "F5: Refresh", IP will be automatically updated into the DVR of the real IP location.



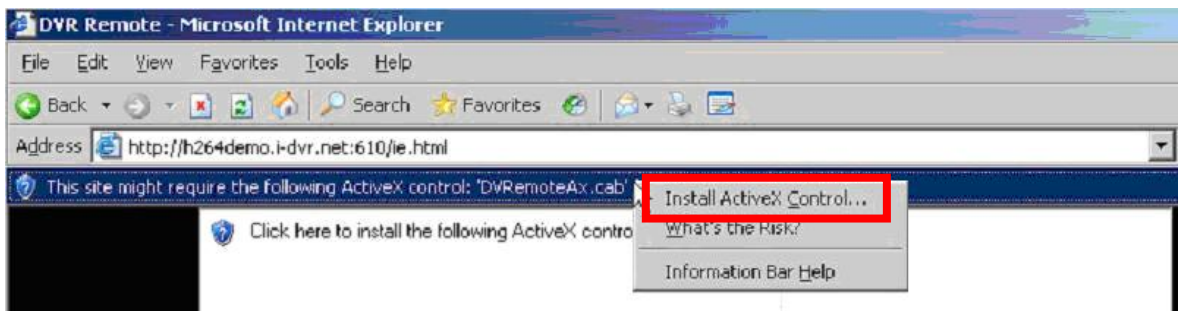
## APPENDIX II Remote Monitoring IE ActiveX Control Installation Instruction

When using IE for remote monitoring for the first time, IE ActiveX Control is needed to be downloaded.

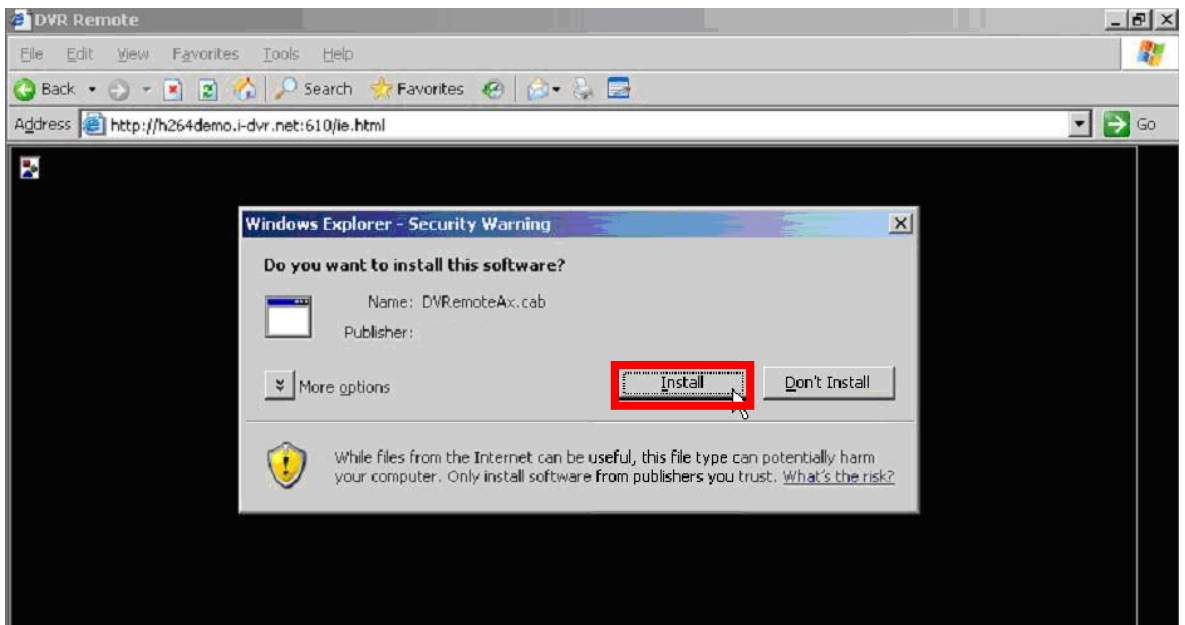
1. When remote monitoring on IE for the first time, an alert message occurs “Install ActiveX control” on the tool bar.



2. Click at this alert message and select “Install ActiveX Control”



3. “Do you want to install this software” alert pops up. Select “Install”

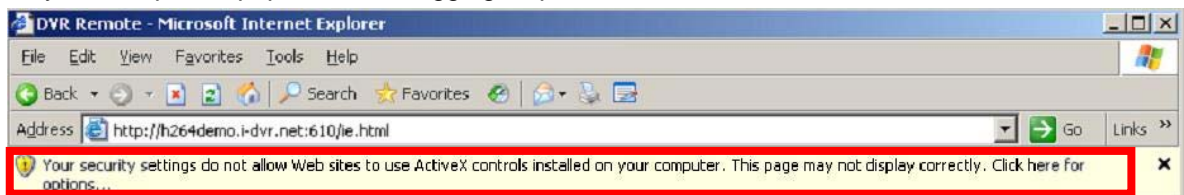




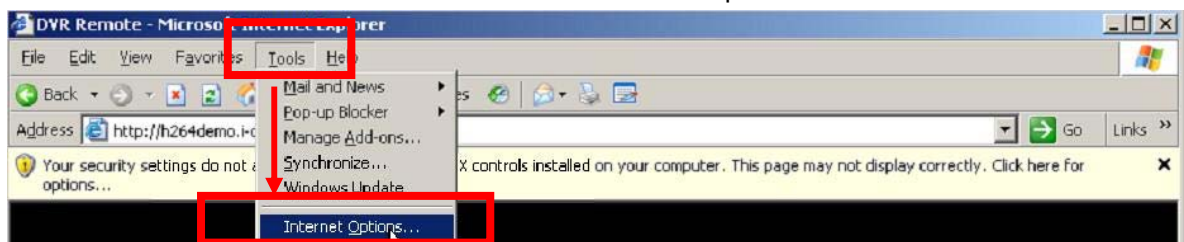
4. After installation, IE remote monitoring image appears.



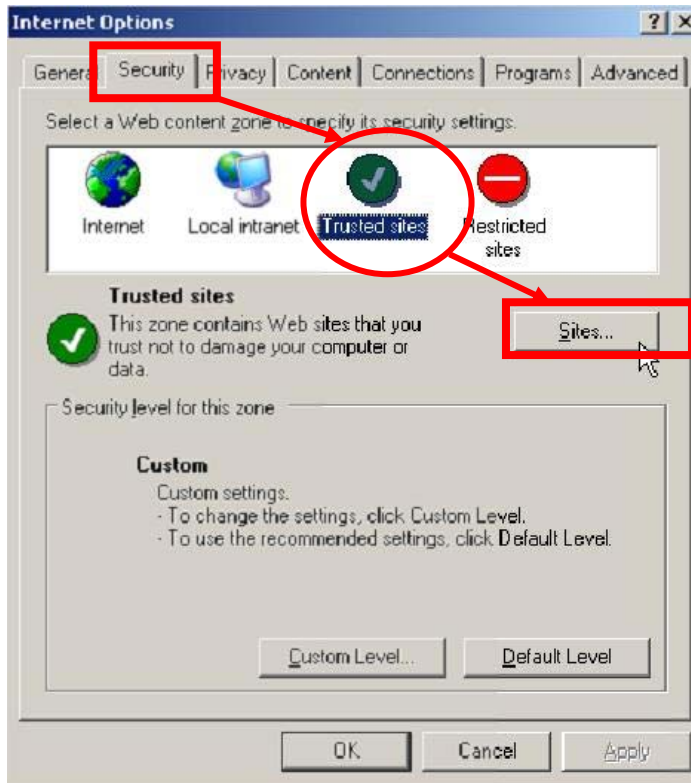
5. If message, "Your security Settings do not allow web sites to use ActiveX controls installed on your computer." pops on when logging in, please follow the next instruction.



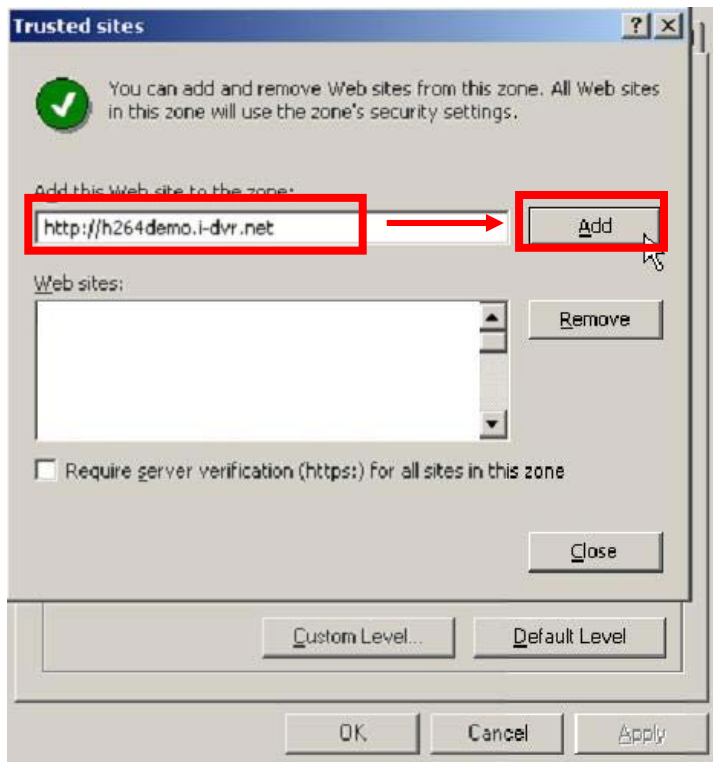
6. First select "Tools" on the tool bar and then select "Internet Options"



7. Select Security → Trusted Sites → Sites

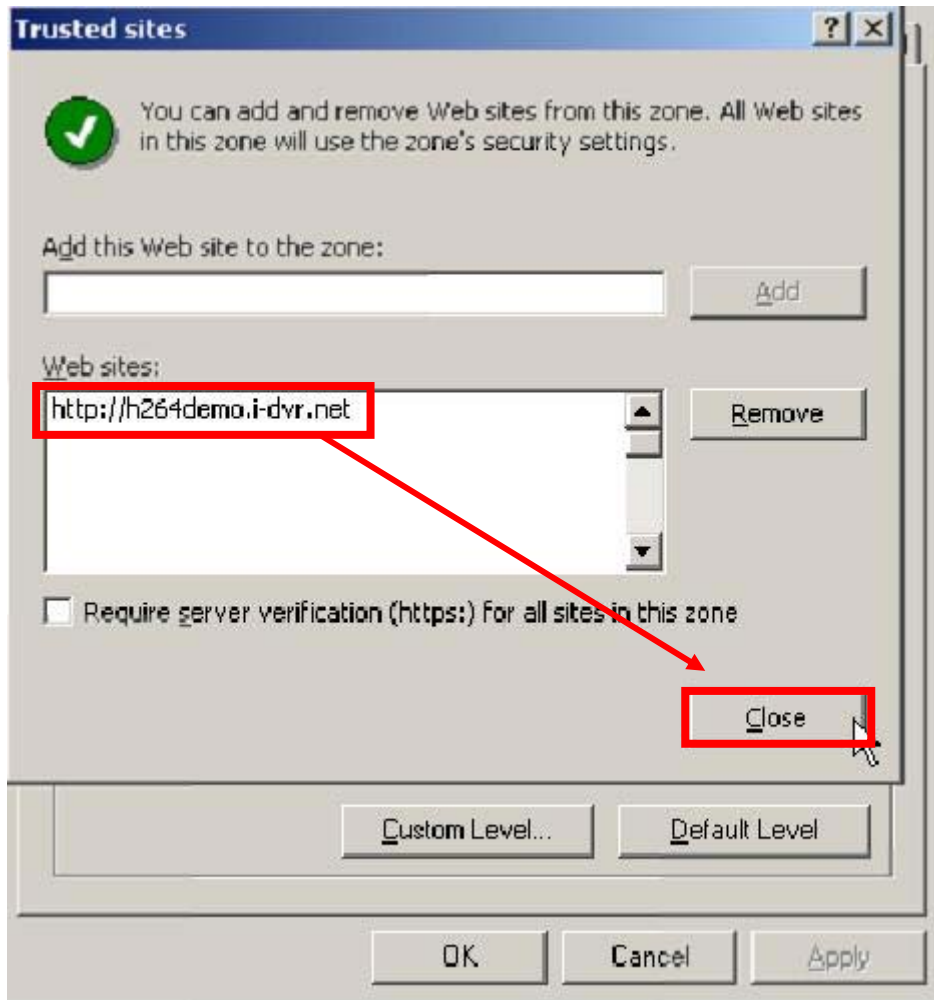


8. Enter DVR address (This address is only for demonstration. Please use the address depends on the setup of on-site DVR.) into the blanks shown in picture, and then press “add.”





9. Newly added website will appear at the trusted web sites list. Press close.



10. Go back to IE window, press refresh button or F5.

