

User Guide

INFORMATION MAY CHANGE WITHOUT NOTICE.

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Caution

- For your safety, unplugging the power before moving the DVR, installing, or replacing any parts or hard drive.
- Make sure all the power cable and wires are properly set up before using the DVR.
- To avoid a short circuit, don't leave any unnecessary parts inside the DVR.
- Please avoid dramatic changes of the environment, such as dust, temperature, and humidity. Keep the DVR in a temperature ranging from 5°C~40°C.
- Keep the DVR in a well-ventilated place and away from any heat-generating objects.
- Do not block the DVR's fan and vent.
- Do not expose this unit to the sun directly.
- If you are not sure of the installation and setup, please consult the technicians.
- Don't fix it yourself if there's any damage to this unit or the power supply, Consult the technician or the distributor.

Package Contents

- DVR Main unit x 1
- Power Adapter x 1
- AC Power Cord x 1
- CD x1 (including of Manual, PC Viewer / DirectX Software)
- Mouse x 1
- IR Remote Controller x 1 (Optional)

If there is any damage, shortage or inappropriate item in the package, please contact with your local dealer.

Introduction

1. Product Overview

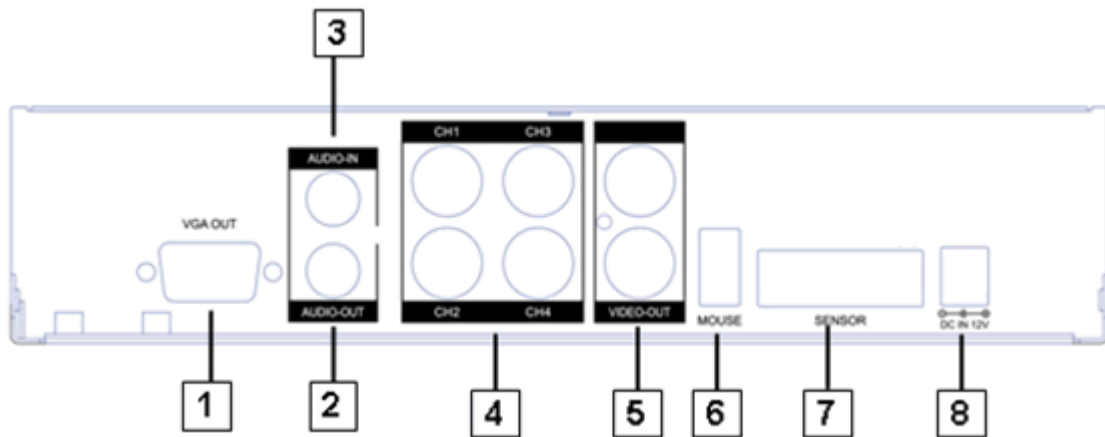
- ◆ 4ch MJPEG DVR with superior compact size.
- ◆ Duplex operation with half D1 recording
- ◆ Ready to take SATA HDD.
- ◆ Friendly GUI with mouse control
- ◆ Multiple functions: display, monitor, playback, file backup and recording.
 - Motion detection with adjustable sensitivity and area
 - Alarm / Sensor (Optional)
- ◆ Multiple and flexible operation control by mouse and IR remote controller(Optional)
- ◆ Support Direct VGA outputx1 (Optional)
- ◆ Support Video out x2, Audio Inx1, Audio Outx1
- ◆ Password Protection
- ◆ Easy Backup via USB device
- ◆ S/W upgradeable via USB device
- ◆ PC Viewer for Data Viewer on PC

2. Front Panel



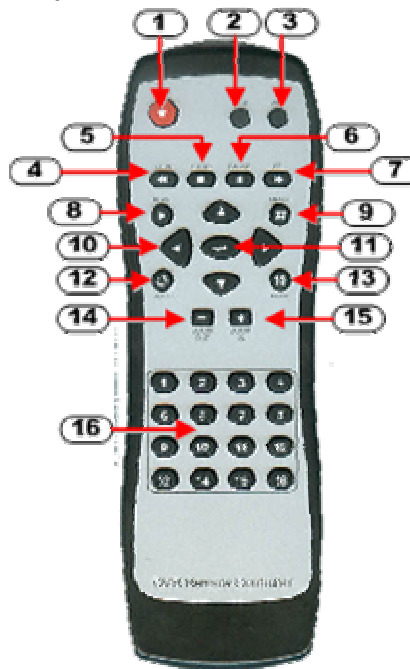
NO	Name	Function
1	● POWER	The DVR unit is powered up and running. (Green color)
2	● HDD ACTIVE	LED indicator flashes at hard disk is acting (Red color)
3	USB	Connects PC for firmware upgrading/USB backup
4	● IR Receiver	IR Control receiver (Refer to IR Remote Controller)

3. Rear Panel



No.	Function
1	VGA Display Connector (DB-9) (Optional)
2	AUDIO-OUT
3	AUDIO-IN
4	VIDEO IN (BNC)
5	VIDEO OUT (Monitor)
6	MOUSE (dedicated Only for Mouse Connection, must connect at the beginning of Power On)
7	General Purpose I/O for SENSOR/ALARM
8	DC-IN (12V)

4. IR Remote Controller (Optional)



No	Button / Name	Function
1	● REC	Start or stop recording / manual recording
2	● DVR	N/A
3	● PTZ	N/A
4	◀◀ REW	Backward search
5	■ STOP	Stop playback
6	⏸ PAUSE	Pause playback.
7	▶▶ FF	Forward search
8	▶ PLAY	Enter 『Time Search』 for video playback
9	☰ MENU	Enter menu or exit.
10	▲(UP)/ ▼(DOWN)/ ◀(LEFT)/ ▶(RIGHT)	Moves up/down/left/right through the list of menus. UP—event search, LEFT-N/A, DOWN-auto, RIGHT-N/A
11	↵ (Enter/Select)	Use this button to change or confirm values on main menu or sub menu setting.
12	↻ AUTO	Press AUTO button to start screen auto sequence.
13	■ MODE	Display 4 split screen
14	— ZOOM OUT	CH in sequence 4,3,2,1,
15	+ ZOOM IN	CH in sequence 1,2,3,4,
16	1,2,3,4 (Channels)	Channels Selector (CH1~CH4 on DVR)

Installation

⚡ Be sure there is no power connection before starting installation!

1. Install the disk drives

Step1: Unscrew three screws on DVR's rear panel. Then slide backward the chassis's top cover and move it upward.

Step2: Fix screws. Connect the Signal cable (SATA) & Power cable

- Make sure that HDD Jumper setting as "Master"



Before installing hard drive, set jumper as "Master" (The master jumper setting varies depending on the hard drive manufactures. Refer to manufacture's

2. USB connector on rear panel

USB connector on rear panel is dedicated for USB mouse (PS/2 interface) using. Do not connect to any other USB device except the mouse.

3. Monitor connection

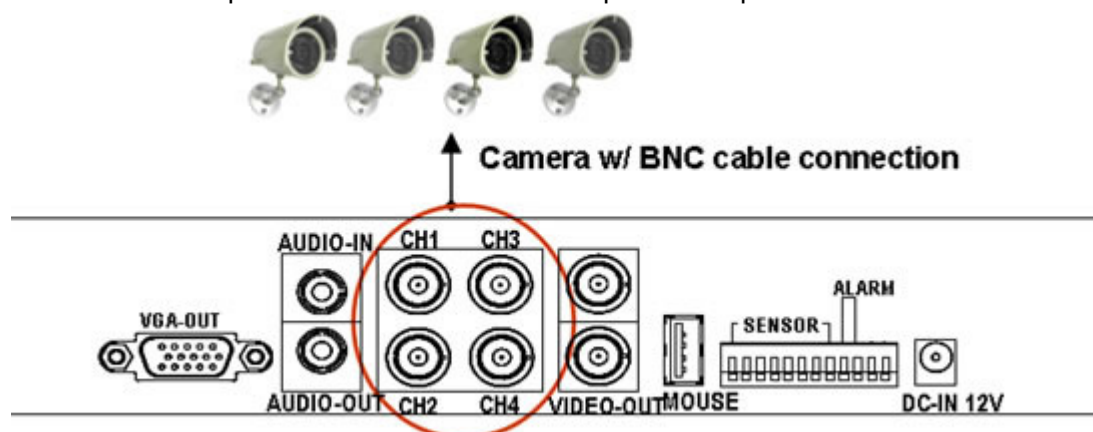
To display video image from cameras on the monitor, the DVR's video output signal should be transferred to your TV set or monitor

Connect "VIDEO IN" of the monitor to "VIDEO OUT" of the DVR.

4. Camera connections

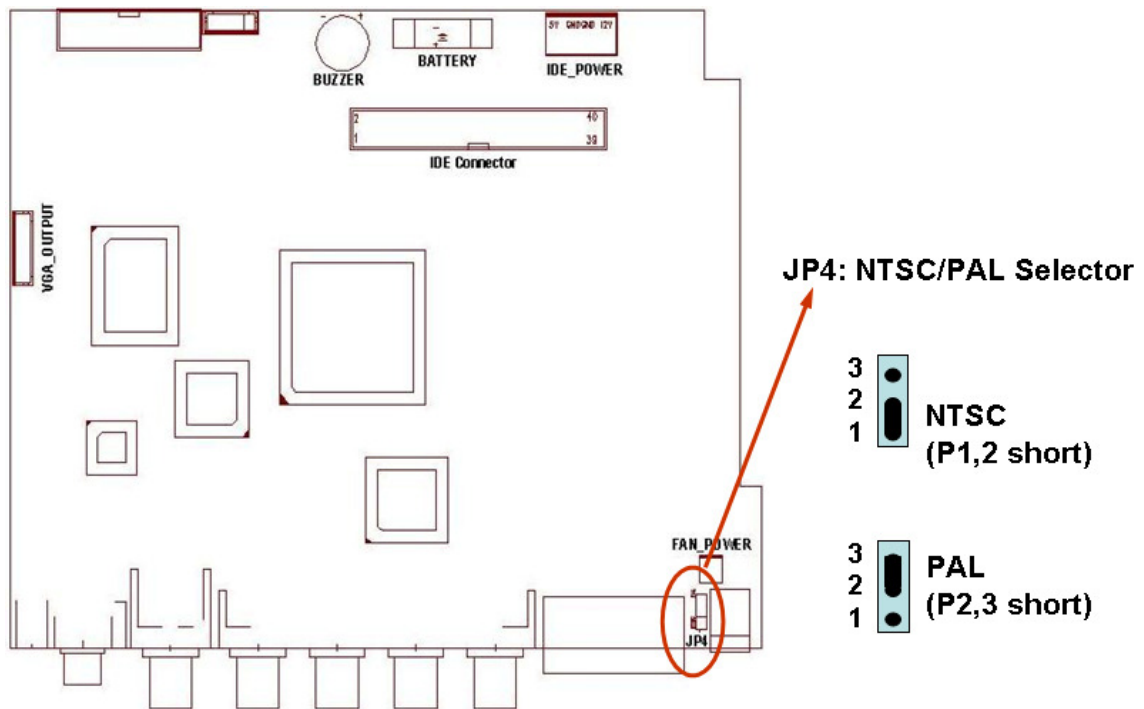
There are four channels for cameras' connections named CH1, CH2, CH3 and CH4.

Connect the BNC cable to DVR's "VIDEO-IN" connector on rear panel for video signals and connect the power cable to the camera's power adapter.



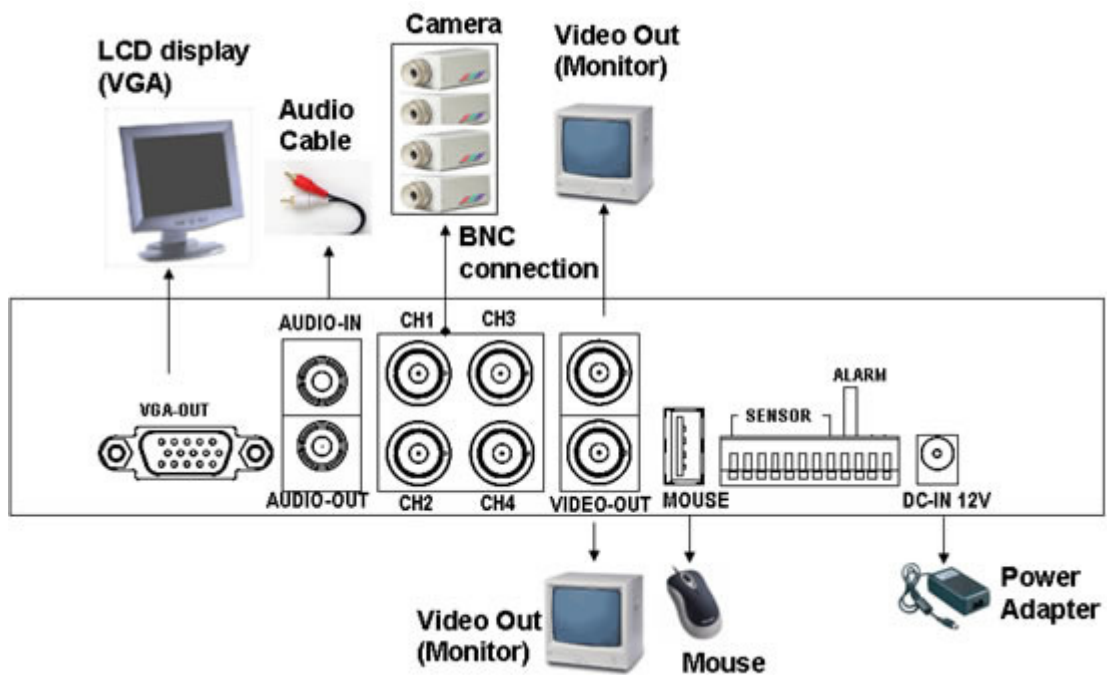
5. Video Format Selection

The DVR accepts two video formats: NTSC and PAL. It can be select by setting the jumper on the main control board.



6. Cablings

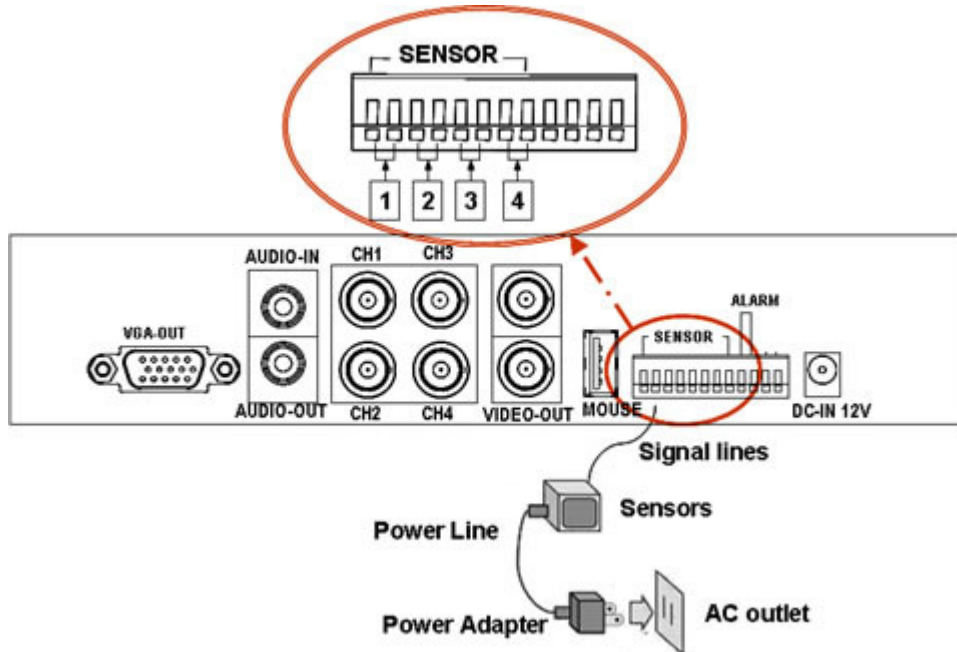
Before starting to use, you have to connect all the peripherals like LCD display, cameras ... as following figure:



7. Sensor Installation (Optional)

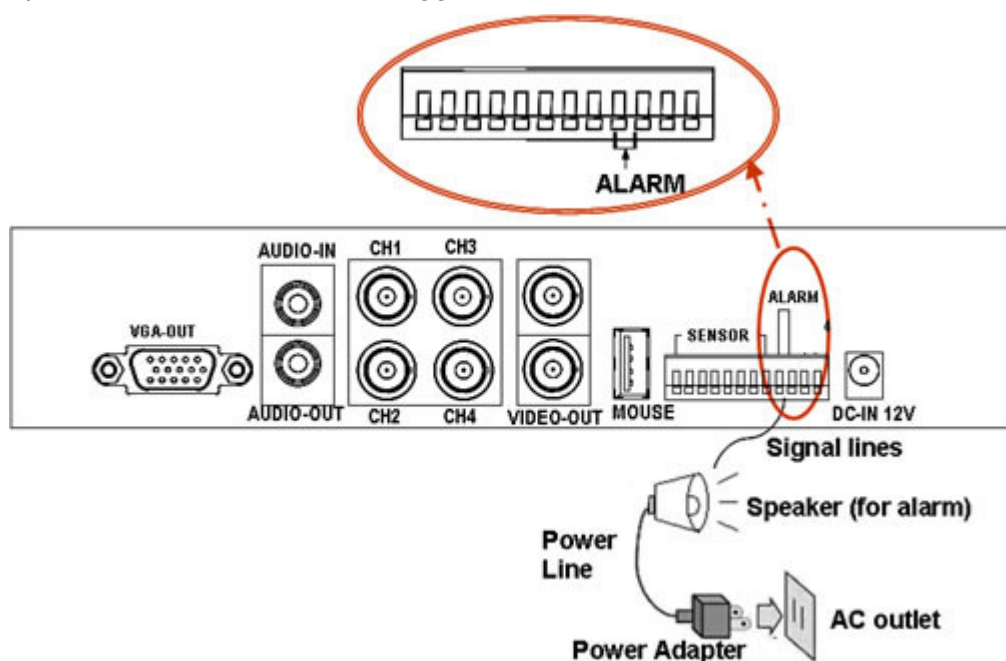
The DVR unit can be connected up to 4 sensor inputs as following figure.

Each set of sensor has two lines: signal and ground in order to sense the sensor's status. In general, there are three different types of sensors available in the home electrics store, where you can buy them. (1) Normal-Close (2) Normal-Open (3) Normal-Close & Open. Each mode and a sensor trips, only the corresponding camera will record



8. Alarm Installation

The DVR unit provides one alarm (speaker) signal. Please connect the alarm system as following figure. DVR has an internal switch for sounding alarm. The switch is normally open, but when the sensor is triggered, the alarm is activated as well.



Start up the DVR System

After the unit is properly installed, the DVR unit is ready to record and play. Then apply power by turn on the power switch.

After the unit is powered on, the unit will check HDD for several seconds, and then the unit will enter into real-time display mode shown as the following screen:



1. Commands

1.1. Operating Buttons

 : Press it to enter the main menu or and exit the menu.

▲ / ▼ (↑ / ↓): Up / Down – To move up/down through the list of menu. Also used to select menu options or change the DVR configuration values.

◀ / ▶ (◀ / ▶): Left/Right – To move left/right through the list of menu.

↵: Select / Enter - To Enter menu list or select DVR configuration values

1.2. Mouse Operating





1.3. State Information



There are state informations on the upper of the screen to show the system status .

: Camera on line. : Camera signal loss

: Recoding : Stop Recording

: USB disk

: HDD Status : 1st Hard drive

: Overwrite the hard drive when Hard drive is full.

XX%: Recording Capacity of Hard drive (show by %)

2007/12/25: Date

18:25:31: Time

: Channel Rotation

1.4. Icons

There is a control bar with several icons will display by press “↵” (Select) or move the cursor down





: 4 Split View



: Auto channel rotation (from 1~4)



: Start recording



: Stop recording



: Enter Main menu



: Play menu(Playback), To play the recorded data.



: Archive Menu, To save the configuration



: Event search. To search the events



: Record Information

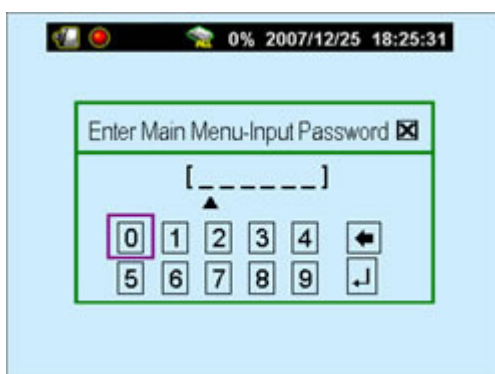


: Hard drive Information

2. Main Menu

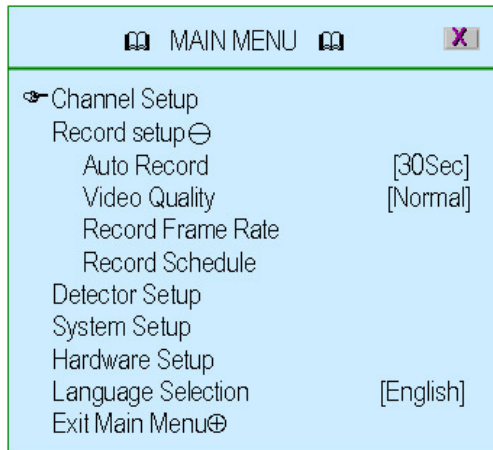
Press  to enter the “main menu”, it will show the password input inquiry as following.

Please enter six numbers by controls on front panel (by using $\leftarrow/\rightarrow$ { $\blacktriangleleft/\blacktriangleright$ } and $\downarrow$) or the buttons (number 1~16) on IR remote. Default password is “123456”.



ESC/Discard: To escape this menu by only using USB mouse

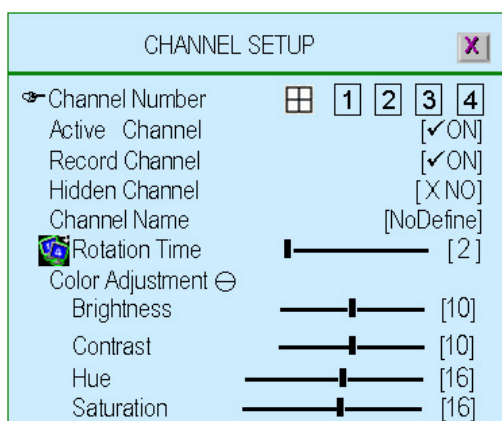
After enter the main menu password, it goes into the main menu for DVR setup



- ◆ **Channel Setup:** To select or specify the channel for display/record.
- ◆ **Record Setup:** To setup recording status of the channel which has been selected at “Channel Setup”.
- ◆ **Detector Setup:** To select the channel would like to be detected. Also to setup all the detection/sensor status.
- ◆ **System Setup:** To setup the DVR system configuration including of date/time, button beep, input device speedetc.
- ◆ **Hardware Setup:** To update the firmware and to setup the input/output device configuration such as disk drive, network, display and audio
- ◆ **Language Selection:** To select the language for operating
- ◆ **Exit Main Menu:** To exit the main menu

3. Channel Setup

Press to enter the “Channel setup” as following.



3.1. Channel Number

To select or specify the channel for displaying/ recording.

" (default) (Full screen mode): you can view / record all channels on the screen of full-screen.

"1,2,3,4": you can view / record each channel be selected on the screen.

3.2. Active Channel

To set the channel been selected at "Channel Number" to both display on screen and record or not.

"ON" – Display on screen, Channel Number color turns to red

"OFF"- No display on screen. Channel Number color turns to white

It can be setup each channel separately by choosing the dedicated channel at

"Channel Number". Or to choose " for all channels

3.3. Record Channel

To set the channel been selected at "Channel Number" to be recorded or not.

"ON" – recording, "OFF"- No recording.

It can be setup each channel separately by choosing the dedicated channel at

"Channel Number". Or to choose " for all channels.

3.4. Hidden Channel

Set the channel been selected at "Channel Number" to display on screen or not.

But it does not matter with recording mode.

"ON" – Hidden the channel on screen you choose, Channel Number color turns to grey. The recording function is acting.

"OFF"- Not hidden

It can be setup each channel separately by choosing the dedicated channel at

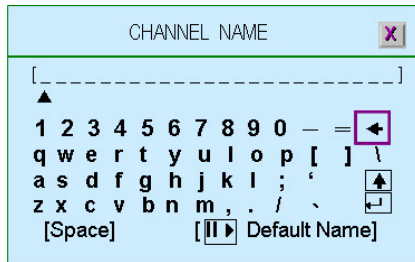
"Channel Number". Or to choose " for all channels

3.5. Channel Name

To specify the channel name with 24 characters (max.)

Press "II ►" (Play) :There are several channel name: "Room", "Hall", "Door", "Lift", "Area", "Floor", "Entry", "Point" for use.

Or you can define the name by using keyboard, controls on front panel or buttons on IR remote: ▲ / ▼ (↑ / ↓) – move up / move down, ◀ / ▶ (◀ / ▶): move left / move right to the character would like to be selected and press "↵" to select as shown at following figure. The channel name will show on the top of each channel



3.6. Rotation Time

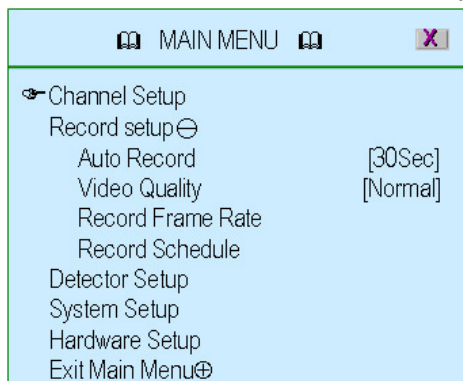
To setup how long to display each channel on full screen from 2~30sec.

3.7. Color Adjustment

- ◆ **Brightness:** Press “↵” button to change (1~20). Default is 10
- ◆ **Contrast:** Press “↵” button to change (1~20). Default is 10
- ◆ **Hue:** Press “↵” button to change (1~32). Default is 16
- ◆ **Saturation:** Press “↵” button to change (1~32). Default is 16

4. Record Setup

Press to enter the “Record setup” as following.



4.1. Auto Record

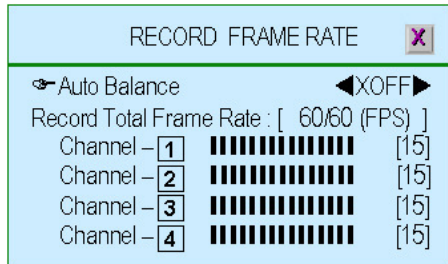
To setup the recording time period by 0sec(OFF), 10sec, 20sec, 30sec, 40sec, 50sec or 60sec. Auto record will help you to re-start the recording automatically in case of abnormal shut down.

4.2. Video Quality

There are three different image video quality settings: NORMAL, LOW, HIGH. Default is NORMAL. Higher the video quality is the clearer images the unit plays. But occupy larger recording size on HDD.

4.3. Record Frame Rate

Setup the recording frame rate for each channel.



4.3.1. Auto Balance

To setup all channel recording frame rate and keep each channel's frame rate in balance, Default is "OFF".

When Trigger mode is ON, the active channel has been detected will occupy all record frame rate if Auto Balance set as "ON".

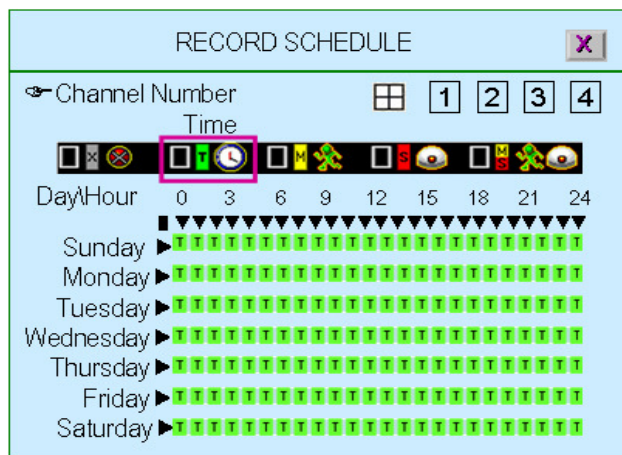
4.3.2. Record Total Frame Rate

To setup each channel's recording frame rate in separately.

For 4ch DVR, Total frame rate is 60/60FPS (Frame Per Second), each channel is 15fps in balance as default.

4.4. Record Schedule

To setup the recording schedule during one week from Sunday to Saturday
Each day is 24-hour.



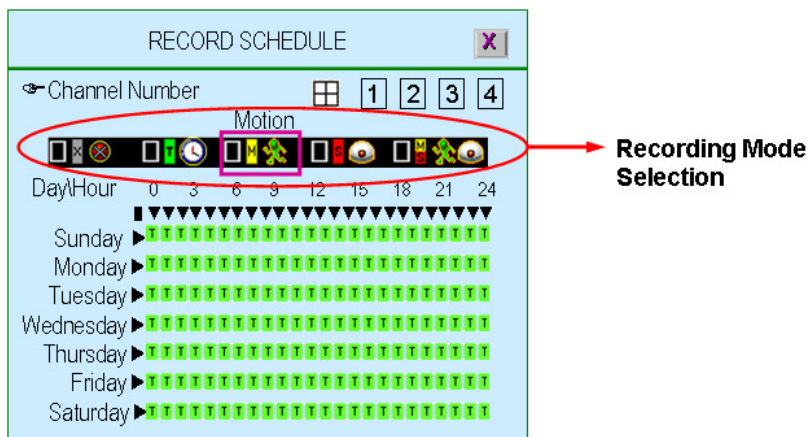
◆ Channel Number

To setup the channel recording schedule.

" ": All channels will be set at the same recording schedule.

"1,2,3,4": To setup each channel recording schedule.

◆ Recording Mode Select



There are five recording modes for selection: None, Time, Motion, Sensor and Motion&Sensor.

“◀/▶(◀/▶)” : To move left or right,

“←” :To select the mode.



None : Recording is off during this duration.

Time : Indicates to record by time schedule

Sensor : Indicates to record by sensor trigger. It means the unit starts recording as the attached sensors being triggered during this period.

Motion : Indicates to record by motion detection.

Motion & Sensor : Indicates to record by both motion detection and sensor trigger..

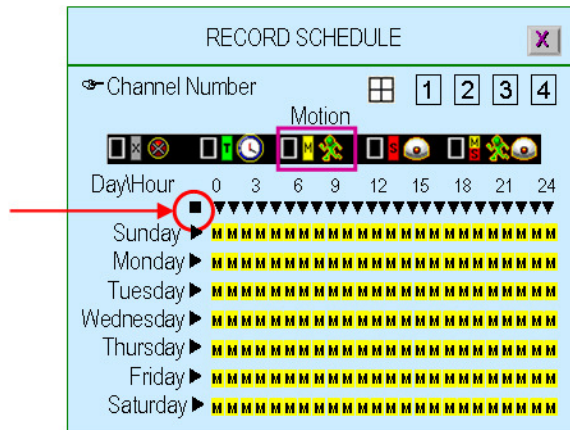
◆ Recording Schedule

“◀/▶(◀/▶)” : To move left or right. “←” :To select the mode.

“▲ ▼(↑/↓)” : To move up or down.

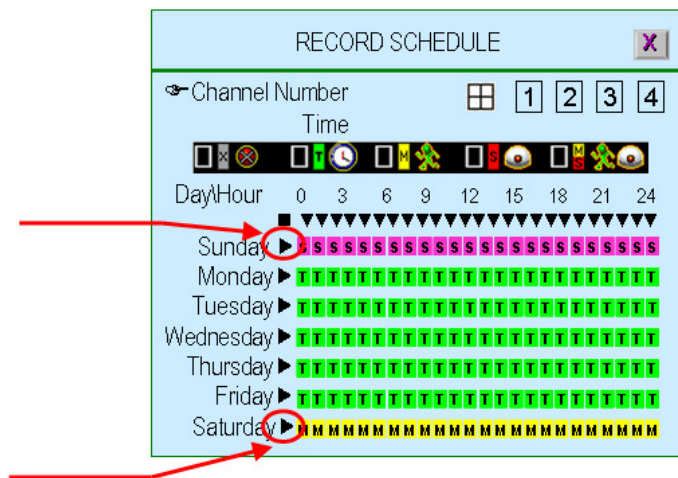
To set all 7-days /24hours at the same configuration by select “■”

For example, choose “Motion” mode for all 7-days by move to “■” and press“←”:



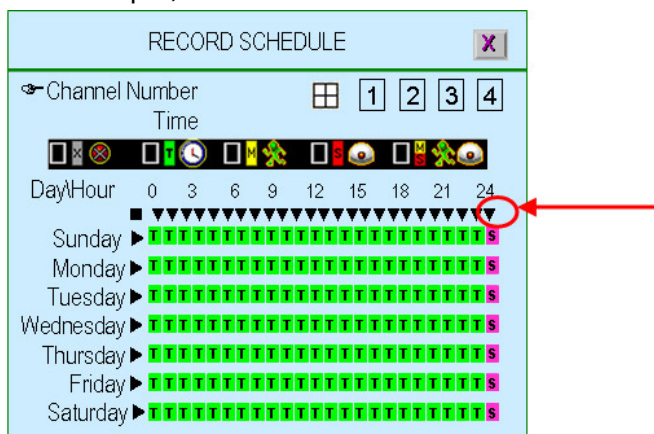
To set one whole day at the same configuration by select “►”

For example, Sunday is set to “Sensor” mode and Saturday to “Motion mode”



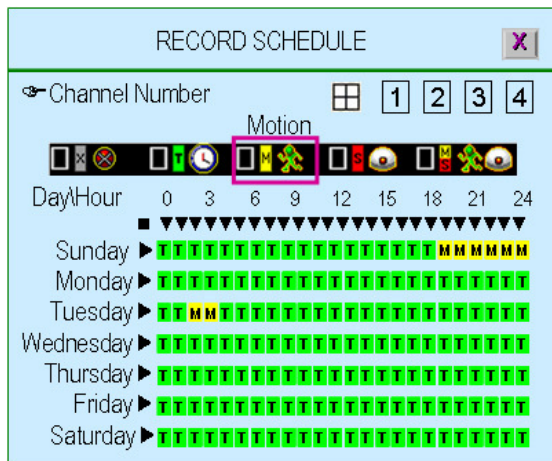
To set the specified time for each day at the same configuration by select “▼”

For example, the time frame 23:00-24:00 is set to “Sensor” mode for whole week.



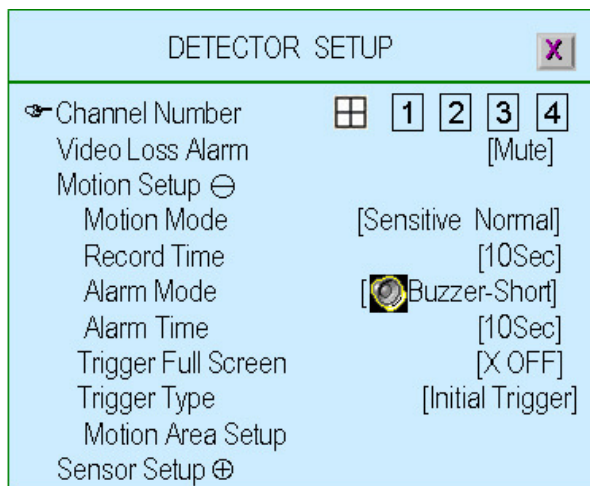
To set any time (by hour) for each day, just move to the desired daytime and select after setting the desired recording mode

For example, “Motion” mode at Sunday 19:00~24:00 and Tuesday 2:00~4:00 as following



5. Detector Setup

This menu is to adjust the motion detection sensitivity of each channel



5.1. Channel Number

To select or specify the channel for detection.

“” (default) (Full screen mode): you can detect all channels on the screen of full-screen

“1,2,3,4”: you can detect each channel (4/8/16) be selected on the screen

5.2. Video Loss Alarm

To select or specify the channel for detection.

“Mute”: No beep whatever video loss or not.

“ Buzzer-Short”: Beep shortly by buzzer on main board when video loss.

“ Buzzer-Long”: Beep long by buzzer on main board when video loss.

-  **Alarm-Short**: Beep shortly by speaker of system when video loss.
-  **Alarm-Long**: Beep long by speaker of system when video loss.

5.3. Motion Setup

5.3.1. Motion Mode

To select the motion sensitivity scale as “Sensitive OFF”, “Sensitive Low”, “Sensitive Normal”, “Sensitive High” or “Sensitive Highest”.

“Sensitive OFF”: No sensitivity

“Sensitive Low”: Low sensitive level

“Sensitive Normal”: Normal sensitive level

“Sensitive High”: High sensitive level

“Sensitive Highest”: The highest sensitive level

5.3.2. Record Time

To set the motion’s record time as 5sec, 10sec, 15sec, 20sec, 25sec, 30sec, 45sec, 60sec, 90sec, 120sec, 150sec or 180sec

5.3.3. Alarm Mode

“Mute”: No beep whatever detecting.

 **Buzzer-Short**: Beep shortly by buzzer on main board when detection is active

 **Buzzer-Long**: Beep long by buzzer on main board when detection is active

 **Alarm-Short**: Beep shortly by speaker of system when detection is active

 **Alarm-Long**: Beep long by speaker of system when detection is active

5.3.4. Alarm Time

To Setup the time period of beep by “Nonstop”(no stop), 5sec, 10sec, 15sec, 20sec, 25sec, 30sec, 35sec, 40sec, 45sec, 50sec, 55sec or 60sec

5.3.5. Trigger Full Screen

To display the trigger channel on full screen when it act as 1sec, 2sec ... or 30sec.

 **OFF**: It will not display on full screen when the channel has been triggered. Also, the trigger area will turn to “red-color”

5.3.6. Trigger Type

There are two trigger types: “Initial Trigger” and “Continuous Trigger” for selection.

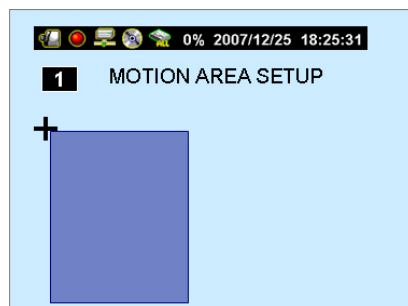
Initial Trigger: When channel has been triggered, it will display on full screen as the setting time period. In that time period, this channel will ignore any other trigger.

Continuous Trigger: When channel has been triggered, it will display on full screen as the setting time period. In that time period, this channel is still watching out. If another trigger act, the channel will display on full screen and count all over again by the setting time period.

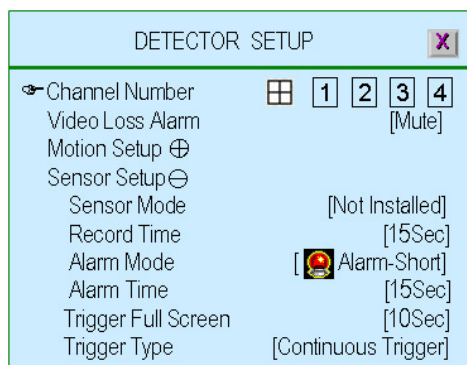
5.3.7. Motion Area Setup

Block one area on screen for each channel as motion detection area.

It can be done by mouse or by using ▲(↑), ▼(↓), ◀(◀), ▶(▶) buttons to move the area. After positioning, press “” and save it



5.4. Sensor Setup (Optional)



5.4.1. Sensor Mode

Set the sensor mode as “Not Installed”, “Normal-Open” or “Normal-Close”.

5.4.2. Record Time

To set the sensor's record time as 5sec, 10sec, 15sec, 20sec, 25sec, 30sec, 45sec, 60sec, 90sec, 120sec, 150sec or 180sec.

5.4.3. Alarm Mode

To set the motion detector alarm mode.

“**Mute**”: No beep whatever detecting.

“ **Buzzer-Short**”: Beep shortly by buzzer on main board when detection is active

“ **Buzzer-Long**”: Beep long by buzzer on main board when detection is active

“ **Alarm-Short**”: Beep shortly by speaker of system when detection is active

“ **Alarm-Long**”: Beep long by speaker of system when detection is active

5.4.4. Alarm Time

To Setup the time period of beep by “Nonstop”(no stop), 5sec, 10sec, 15sec, 20sec, 25sec, 30sec, 35sec, 40sec, 45sec, 50sec, 55sec or 60sec

5.4.5. Trigger Full Screen

Display the trigger channel on full screen when it act as 1, 2sec ... 30sec.

“ **OFF**”: It will not display on full screen when the channel has been triggered.

5.4.6. Trigger Type

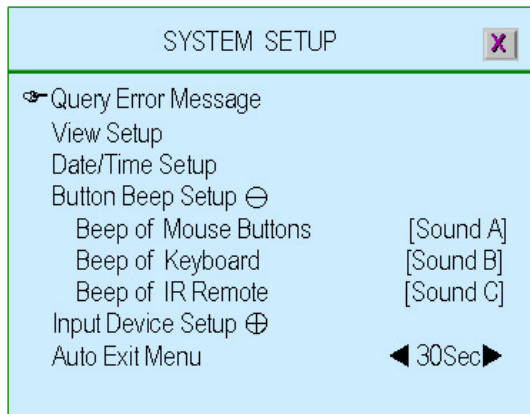
There are two trigger types: “Initial Trigger” and “Continuous Trigger” for selection.

Initial Trigger: When channel has been triggered, it will display on full screen as the setting time period. In that time period, this channel will ignore any other trigger.

Continuous Trigger: When channel has been triggered, it will display on full screen as the setting time period. In that time period, this channel is still watching out. If another trigger act, the channel will display on full screen and count all over again by the setting time period.

6. System Setup

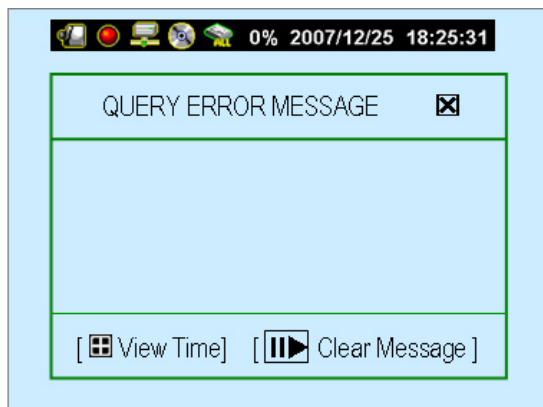
To set up the Password, time, date and button beep...etc.



6.1. Query Error Message

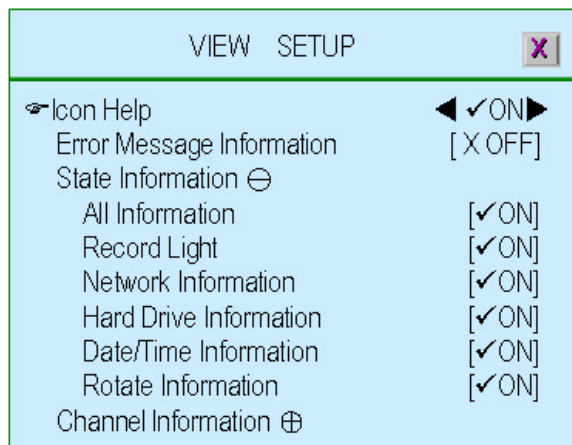
The listing of DVR error message.

“” : Show error message with time. “” : Clear all error messages.



6.2. View Setup

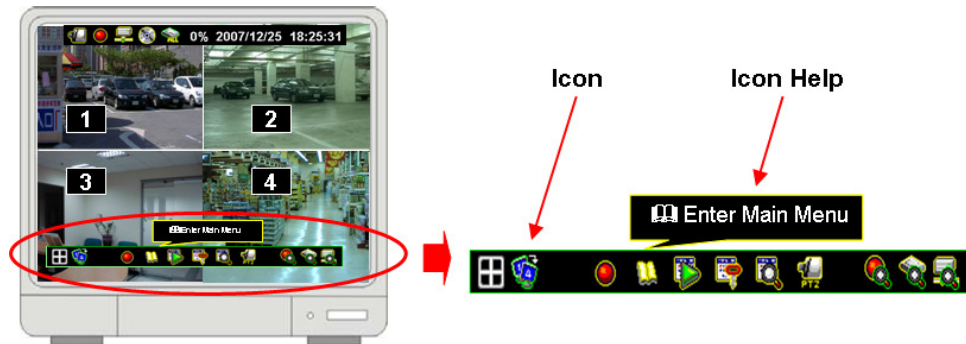
To setup the illustration and DVR information will be displayed or not.



6.2.1. Icon Help

“**ON**” - Icon help will be shown, “**OFF**” –Icon help will not be shown

Please refer to 1.5 Icons for more detail information



6.2.2. Error Message Information

“✓ON” - Save/display the error message

“XOFF” – Without save/Display the error message

6.2.3. State Information

System status information, it includes record light, network information, hard drive information, date/time information and rotate information. All information can be set separately to be seen or not.

Please refer to 1.4 State Information for more details.



6.2.4. Channel Information

Channel information includes channel number, channel name, record light, video loss, record mode, detector mode and alarm view. All information can be set separately to be seen or not.



1 2 3 4 : Channel Number

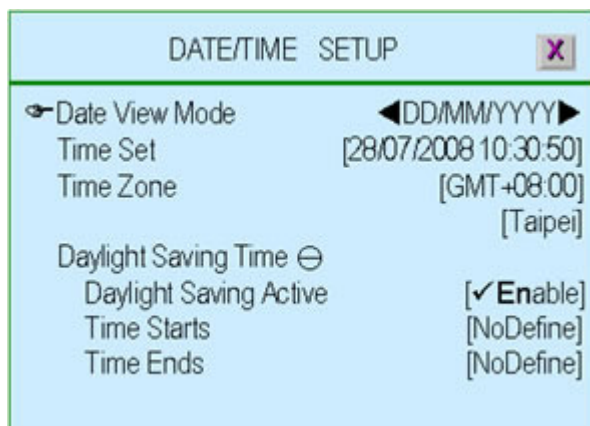
: Recording status : Video Signal Status

: Detection mode and status (Flash if sensor has been triggered)

: Alarm Active : Buzzer active

6.3. Date/Time Setup

To setup the date and time



6.3.1. Date View Mode

To display the date/time format on state information by DD/MM/YYYY, MM/DD/YYYY or YYYY/MM/DD. (YYYY-Year, MM-Month, DD-Day)

6.3.2. Time Set

To setup the day / time.



▲ / ▼ (↑ / ↓): Up / Down – Change the number

◀ / ▶ (◀ / ▶): Move left/right to the character that need to change

📖 : Exit after confirmed setting

6.3.3. Time Zone

Set the time zone where you are located.

6.3.4. Daylight Saving Time

Set daylight saving time period by specify the Month, Week, Day and Hour

Time Ends		Time Starts	
Month	October	Month	March
Week	[First Week]	Week	[First Week]
Day	[Sunday]	Day	[Sunday]
Hour	[0]	Hour	[0]

6.4. Button Beep Setup

To setup the beep type when press the button of mouse, keypad or IR remote.

There are four modes: mute, sound A, sound B, sound C

SYSTEM SETUP	
Query Error Message	
View Setup	
Date/Time Setup	
Button Beep Setup ⊖	
Beep of Mouse Buttons	[Sound A]
Beep of Keyboard	[Sound B]
Beep of IR Remote	[Sound C]
Input Device Setup ⊕	
Auto Exit Menu	◀ 30Sec ▶

6.5. Input Device Setup

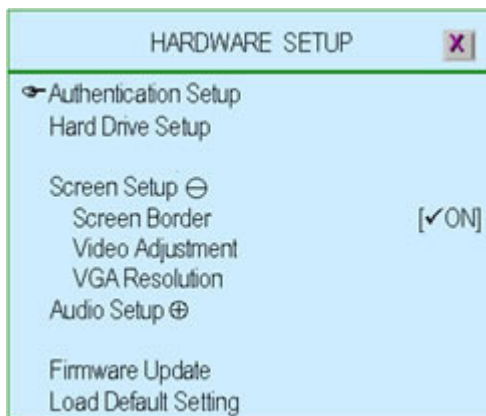
To setup the speed of input device: mouse, mouse repeat, keypad and IR remote as Slow, normal or fast

SYSTEM SETUP	
Query Error Message	
View Setup	
Date/Time Setup	
Button Beep Setup ⊕	
Input Device Setup ⊖	
Mouse Moving Speed	[Slow]
Mouse Repeat Speed	[Normal]
Keypad Repeat Speed	[Normal]
IR Repeat Speed	[Normal]
Auto Exit Menu	◀ 30Sec ▶

6.6. Auto Exit Menu

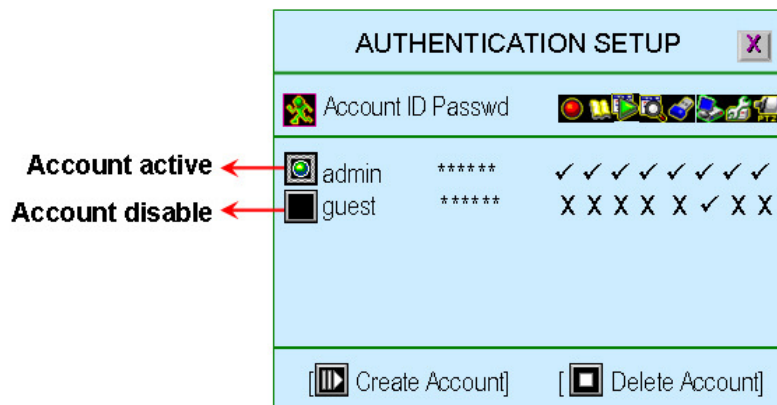
To setup the time period to exit menu automatically by choose “OFF” (not exit unless pressing “”), 10sec, 20sec, 30sec, 40sec, 50sec or 60sec.

7. Hardware Setup



7.1. Authentication Setup

Specify the limits of authority of user and set its own password.



“”: To create a new account. “”: To delete account.

“◀ (◀), ▶ (▶)” Set account within certain limits by set it as “✓” as permitted or no permitted as “X”

(Account Active): The account is active

(Account Disable): The account is not active

Account ID (account name): Enter characters as account ID

Passwd (Password): By entering six characters or numbers as password.

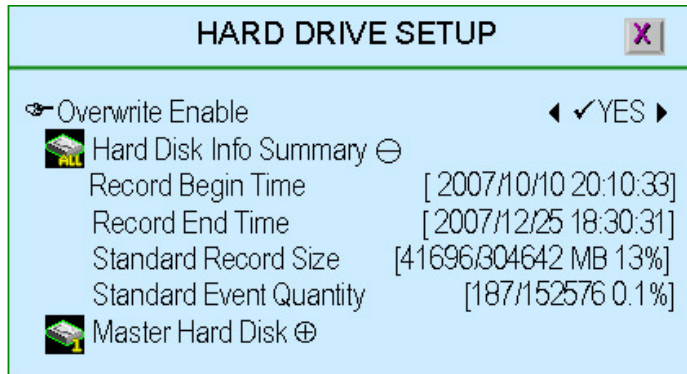
The password will replace by “*****” when any user login from network.

Remark:

- ◆ If all accounts are disabled or no account has been created, there is no authority issue for the DVR system
- ◆ If one function has been disabled for all users. It means that function does not need password for setting.

7.2. Hard Drive Setup

To set up the hard drive information and overwriting function



7.2.1. Overwrite enable

“✓YES”: Enable to overwrite hard drive when capacity is full

“X NO”: Not permit to overwrite hard drive when capacity is full.

7.2.2. Hard Disk Info Summary

All hard drive Information in summary

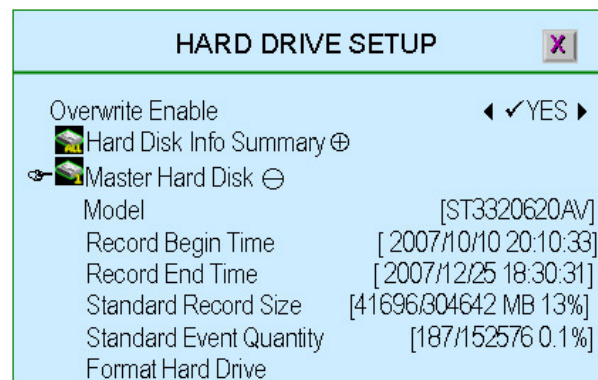
• **Record Begin Time:** The starting day/time of hard drive recording

• **Record End Time:** The latest day/time of hard drive recording

• **Standard Record Size:** The recorded Capacity / Total hard drive capacity by Mega-byte. Also show up the % of how much capacity has been used.

• **Standard Event Quantity:** The capacity has been record of event / Total capacity for event.

7.2.3. Master Hard Disk



The Mater hard drive Information in summary

• **Model:** Model of master hard drive.

• **Record Begin Time:** The starting day/time of hard drive recording

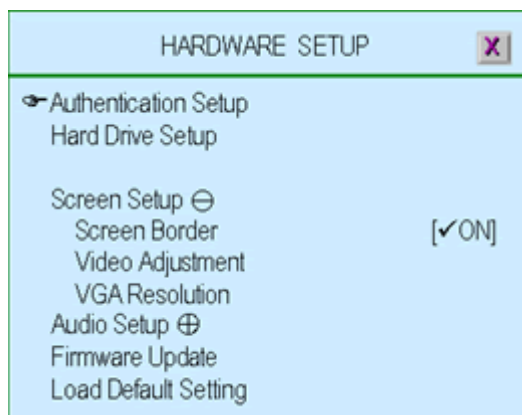
• **Record End Time:** The latest day/time of hard drive recording

• **Standard Record Size:** The recorded Capacity / Total hard drive capacity by Mega-byte. Also show up the % of how much capacity has been used.

- **Standard Event Quantity:** The quantity has been record of event / Total quantity for event.
- **Format Hard Drive:** To format the hard drive. If the system is running at recording mode, it is not permitted to format the hard drive and show a warning ...

**System is Recording
Hard Disk Fromat is Prohibited**

7.3. Screen Setup



7.3.1. Screen Border



“✓ON” : To enable the border, “X OFF”: To disable the screen border.

7.3.2. Video Adjustment

Adjust the whole picture to right/left or up/down by press ◀/▶ (◀ / ▶) or ▲ / ▼ (↑ / ↓). “” : Set it as default location

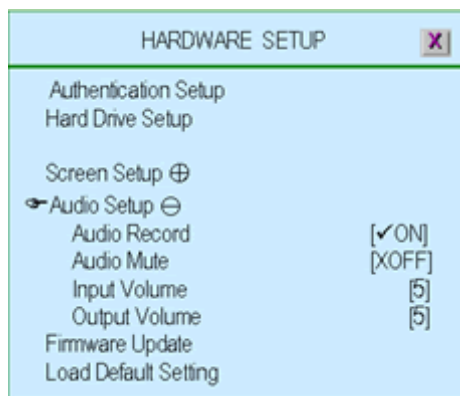


7.3.3. VGA Resolution

To choose the resolution of VGA as 640x480, 800x600, 1024x768 or 1280x1024.

7.4. Audio Setup

To setup the audio status including of audio record, audio mute, input volume and output volume.



7.4.1. Audio Record

“✓ON”: Enable audio recording. “X OFF”: Disable audio recording

7.4.2. Audio Mute

“✓ON”: Switch on the audio function

“X OFF”: Switch off the audio function

7.4.3. Input Volume

“X OFF”: Turn off the audio input volume

“1,2,3,4.....10”: Adjust audio input volume from small to aloud.

7.4.4. Output Volume

“X OFF”: Turn off the audio output volume

“1,2,3,4,10”: Adjust audio output volume from small to aloud.

7.5.Firmware Update

To update or upgrade the DVR firmware by USB disk..

Plug the USB disk into USB port on DVR front panel

FIRMWARE UPDATE 
Current Revision : 404T-10Key V14.0.0 Current Date/Time: Dec.31 2007 05:22:38 Current Language: English Current Checksum: 0x0332E245
File Name : FWVX4TWN.FWI File Revision: File Date/Time: File Language: File Checksum:
Plug USB Disk

Plug the USB disk into USB port on DVR front panel

After plug in USB disk, it shows” **Read file Information**” on the button line

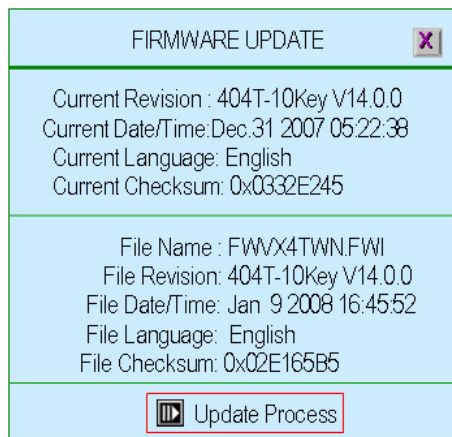
FIRMWARE UPDATE 
Current Revision : 404T-10Key V14.0.0 Current Date/Time: Dec.31 2007 05:22:38 Current Language: English Current Checksum: 0x0332E245
File Name : FWVX4TWN.FWI File Revision: File Date/Time: File Language: File Checksum:
Read file Information



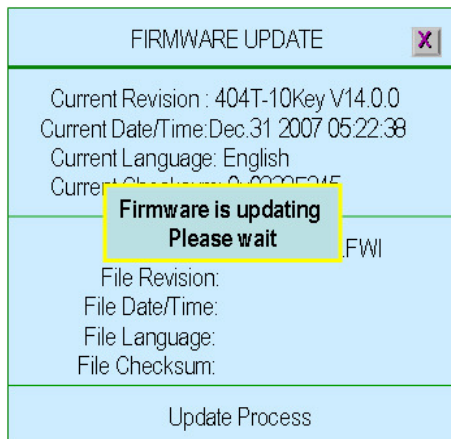
If something mistake for USB disk or file, it will show: **File not found or Disk Error** on the button line. Please check USB disk or file and plug in again.

After complete the firmware reading, it shows “ Update Process” and blanking on the button line as following. Also, the updated firmware information will be listed.

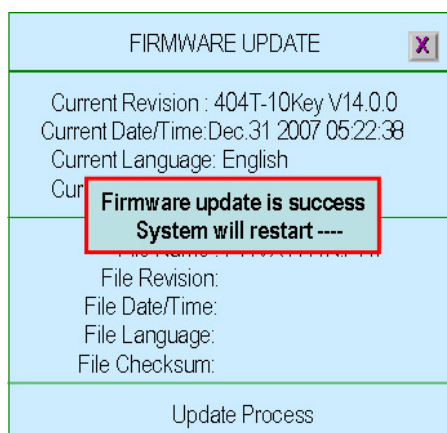
Press “” to start the procedure of firmware update



When DVR is updating the firmware, it shows “**Firmware is updating, Please wait**” as following figure:



After firmware update is completed, it will show: “**Firmware update is success, System will restart ----**” and restart DVR with the same configuration at previous version firmware does.

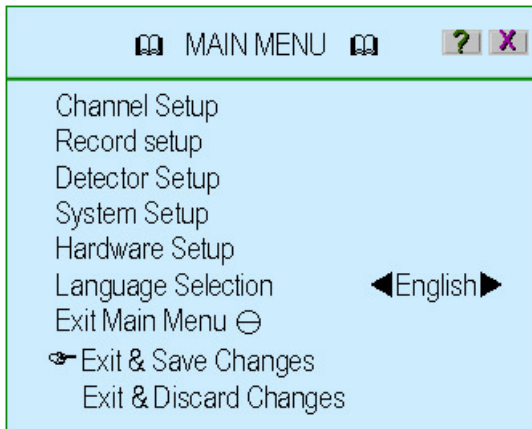


7.6.Load Default Setting

To reset all the DVR configuration as default setting.

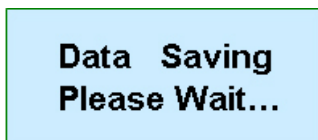
8. Exit Main Menu

To exit menu and save / discard the changes.



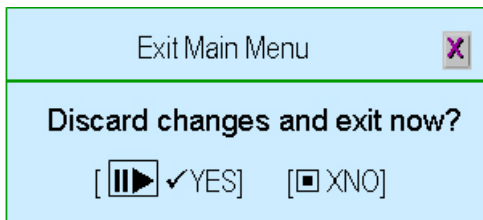
8.1. Exit & Save Changes

To Exit menu and save all configuration changes.



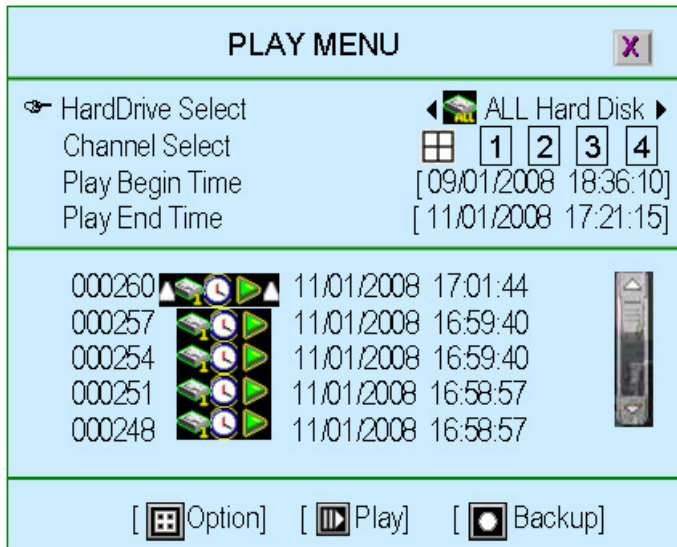
8.2. Exit & Discard Changes

To exit menu but without saving the configuration changes.



Playback

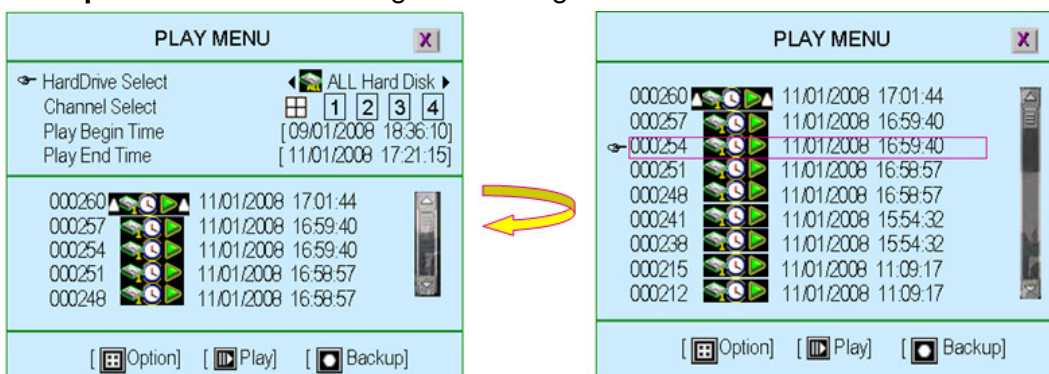
Press "▶" (or "⏮▶") button or icon  to enter Play menu



- ◆ **HardDrive Select:** To select or specify which hard drive's data will be playback.
- ◆ **Channel Select:** To setup or specify which channel's data will be playback
- ◆ **Play Begin Time:** To specify the beginning time to playback
- ◆ **Play End Time:** To specify the beginning time to playback.

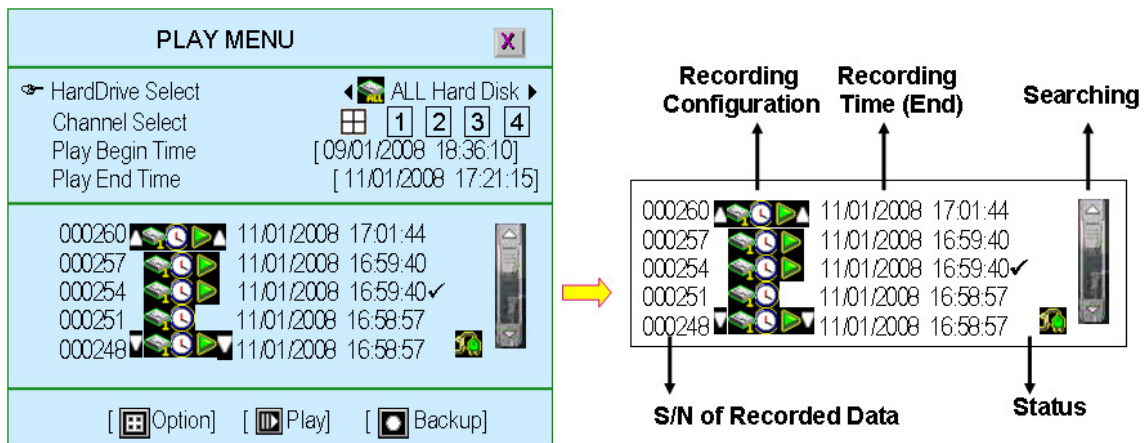
The other area shows the recorded data for choosing to play.

Option: Window switching as following



- Play:** Start to play the recorded data After the data has been played, it will show "✓"
- Backup:** To backup the recorded data. Please refer to "Backup" section

Commands and Recorded Data status:



◆ **S/N of Recorded Data:** Series Number of recorded data provide by system

◆ **Recording Configuration**

 /  : The beginning / end of recorded data.

 : The dedicated hard disk data

 : The recording mode

 : The data can be play.

If this icon does not show up, it means it is an event without video recording data.

◆ **Recording Time:** The date/time of recorded data

◆ **Status**

✓ : The recorded video data has been played.

 : Power-OFF event occur.

◆ **Searching:** A bar to search recorded data by mouse for more convenient.

Data Backup by USB

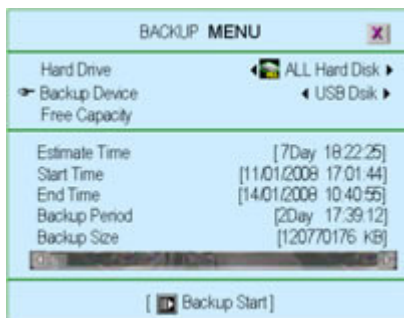
Press “▶” (or “⏮▶”) button to enter the Play menu.



◆ **HardDrive Select:** To select or specify which hard drive's data will be backup

Use “▲ ▼ (↑/↓)” button and move to the dedicated recorded data that you want to backup Press “⏮” to enter the “Backup Menu” as following.

It shows the backup menu with Disk information on the upper area and the recorded data that you have selected at “Play Menu” at the lower area.



◆ **Hard Drive:** It has been selected at “Play Menu” to specify which hard drive's data will be backup

Backup Device: USB Disk

◆ **Free Capacity:** System will count the free size of USB automatically after inserting the backup device.

1. Backup by USB

The DVR support the data backup by USB memory stick on the front panel.

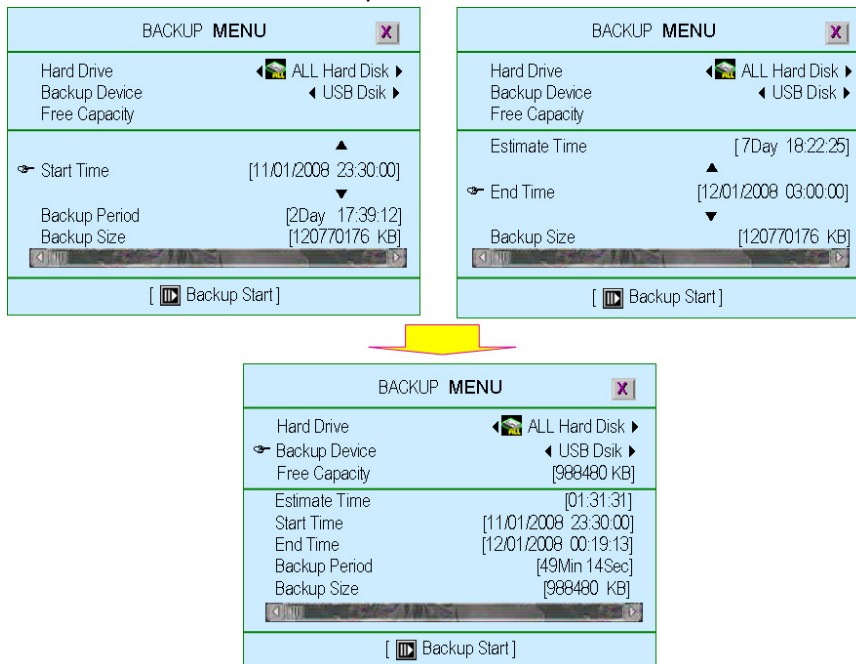
You can change the time period of recorded data for backup by setting the “Start Time” and “End Time” and plug in the USB disk.

The “Free Capacity”, “Estimate Time”, “Backup Period” and “Backup Size” will be changed automatically.

4CH Duplex DVR

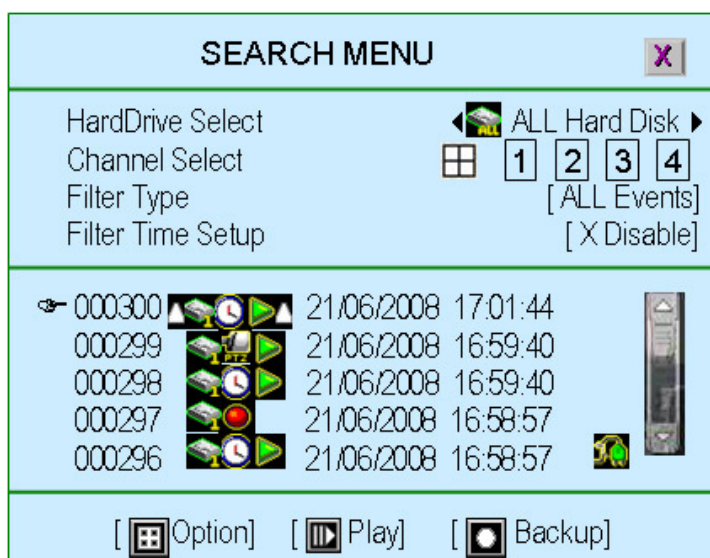
Also, it will correct the “Start Time” and “End Time” as the time period which has video recorded data.

Press “”, it start to backup data into USB disk.



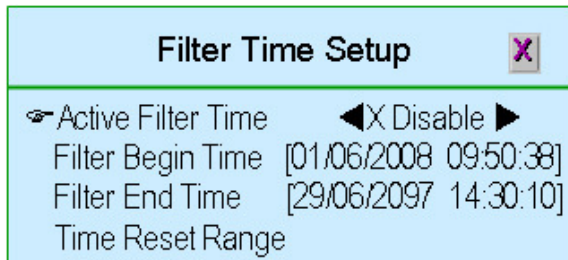
Event Search

Press “” (or “”) button or icon  to enter Event search menu



- ◆ **HardDrive Select:** To select or specify which hard drive’s event will be search.
- ◆ **Channel Select:** To setup or specify which channel’s event will be search.

- ◆ **Filter Type:** To specify the filter type as All Events, General Events, Record Events, Trigger Events, Hardware Events, Warning Events,
- ◆ **Filter Time Setup.**



- ◆ **Active Filter Time:** Enable/Disable Filter time of event
- ◆ **Filter Begin Time:** To specify the beginning time of event filter
- ◆ **Filter End Time:** To specify the beginning time of event filter
- ◆ **Time Reset Range:** To reset the event search time period according to all effective events as recorded. .



Option: Working window switching for setting/Event content display.



Play: Start to play the event which has been selected



Backup: Backup the event which has been selected

PC Viewer

PC Viewer is developed for viewing recorded video, taking snapshot and converting video to AVI format on PC which supports Windows2000/Windows XP/VISTA

1. DirectX

Before installing PC Client / PC viewer into your PC, please make sure DirectX 9.0 or above has already existed. You can refer to Microsoft Download Center:

<http://www.microsoft.com/downloads/> to choose "DirectX" and complete the installation.

2. PC Client/PC Viewer Program Installation

PC Viewer will help you to play the video data on PC (Windows Environment)

Please refer to the CD attached, then run "PC Viewer" to playback the DVR video data.

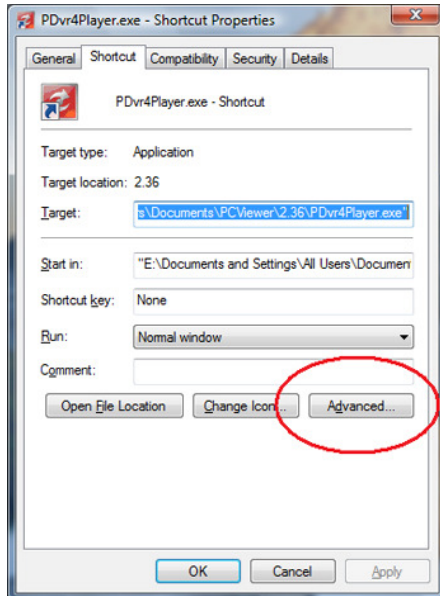
3. Open Disk Operating in VISTA

It must setup PC Viewer / PC Client properties at VISTA operating system when you want to open disk including of Hard drive and USB disk before start running.

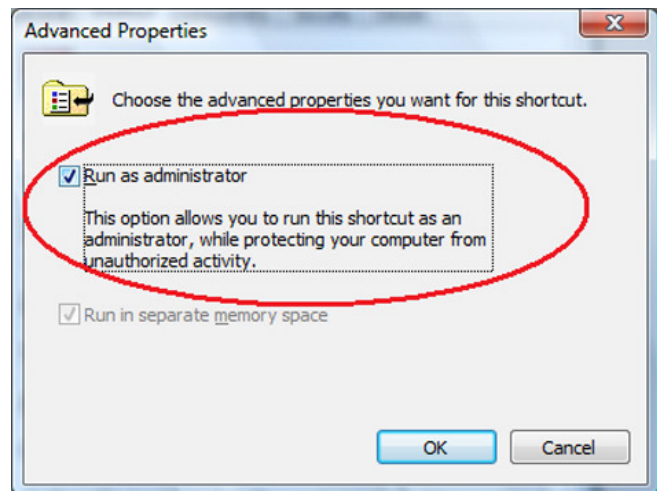
Step 1: Go to PC Viewer Properties setting...Choose **“Advanced”** at **Shortcut** setting.

Step 2: At Advanced Properties, enable **“Run as administrator”**,

Then, press OK to complete PC Client properties setting.



Step1



Step2

4. PC Viewer Operating Guide



Name	Function
Open	Open file. To retrieve the desired video data.
Fast Backward	Press to play backward faster.

 Reverse	Press to playback backward
 Previous frame	Button for one single frame backward
 Pause	Pause the video playback
 Next Frame	Button for advancing one single frame
 Playback	Start video playback
 Fast forward	Press to play the recorded stream faster.
 Still capture	click to snapshot the data as BMP file
 Mode (Full)	To display each channel on full-screen
 Mode (4ch)	To display 4channels on screen(4ch DVR)
 Speaker	Set Speaker On / OFF.
Speaker Volume	To adjust the speaker's volume
Video	Video Play.
Player	Press to act at PC Viewer environment
Client	Press to act at PC Client environment
AVI	Click to create a new file to save AVI file in PC and start to convert the data into AVI file and save.