

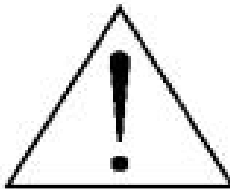
4CH MPEG4 DVR

USER MANUAL

Please read instructions thoroughly before operation and retain it for future reference.

The image shown above may differ from the actual product appearance.

IMPORTANT SAFEGUARD

	CAUTION RISK OF ELECTRIC SHOCK	
CAUTION: To reduce the risk of electric shock, do not expose this apparatus to rain or moisture. Only operate this apparatus from the type of power source indicated on the label. The company shall not be liable for any damages arising out of any improper use, even if we have been advised of the possibility of such damages.		

Graphic Symbol Explanation

	The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.
	This exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.
	All lead-free products offered by the company comply with the requirements of the European law on the Restriction of Hazardous Substances (RoHS) directive, which means our manufacture processes and products are strictly “lead-free” and without the hazardous substances cited in the directive.
	The crossed-out wheeled bin mark symbolizes that within the European Union the product must be collected separately at the product end-of-life. This applies to your product and any peripherals marked with this symbol. Do not dispose of these products as unsorted municipal waste. Contact your local dealer for procedures for recycling this equipment.
	This apparatus is manufactured to comply with the radio interference requirements.

Disclaimer

We reserve the right to revise or remove any content in this manual at any time. We do not warrant or assume any legal liability or responsibility for the accuracy, completeness, or usefulness of this manual. The content of this manual is subject to change without notice.

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Version

Firmware: 1145-1011-1021-1013
Licensed Software AP: 0075

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1. OVERVIEW

1.1 Product Description

This MPEG4 multiplex network DVR series combines remote surveillance, burglar prevention, and evidentiary recording features and is designed to become a simple DVR system with all necessary functions.

1.2 Features

● MPEG4 Technology

- MPEG4 compression format providing crystal clear images with real time performance
- MPEG4 web transmitting for faster transmission and clearer images via network

● Multiplex Operation

- Allows live display, record, playback, backup, and network operations at the same time

● Free Upgrade to Advanced Functions

- Allows you to upgrade DVR functions without any charges

● Backup Device

- Network (for all models)
- USB flash drive (Model 3 & 4)

● Remote Surveillance

- Supports remote surveillance up to 20 users simultaneously with licensed software AP, IE browser & Mozilla Firefox browser

● Intelligent Motion Trigger Recording

- With the advanced functions of motion detection, scheduled motion detection recording (4 different adjustable factors for motion detection sensitivity) and quick search, customized security environments are achieved
- Alarm trigger recording will send alerts with images to designated e-mails and the FTP address
- Supports pre-alarm recording (2MB)

● Covert Recording

- Blank screen replaces live displays to achieve covert recording

● A/V Support

- Supports 1 audio-in, 1 audio-out to record sounds
- Supports VGA output to monitor

● General

- Supports multi-language OSD
- System auto recovery after power failure
- Supports PTZ camera operations through RS485 signals
- Supports manual / timer / motion / alarm / network remote recording
- Supports TCP/IP, PPPoE, DHCP and DDNS network connection
- Supports IR remote control (for Model 3 & 4 only)
- Supports SATA HDD (except for Model 1)

1.3 Specifications

MODEL	MODEL 1	MODEL 2	MODEL 3	MODEL 4
Video System	NTSC / PAL (switchable)			
Video Compression Format	MPEG4			
Video Input (Composite video signal 1 Vp-p 75Ω BNC)	4 Channels			
Video Loop Out (Composite video signal 1 Vp-p 75Ω BNC)	4 Channels			
Video Output (Composite video signal 1 Vp-p 75Ω BNC)	Main Monitor Output / Call Monitor Output			
Maximum Recording Rate	Frame: 720×480 pixels with 30 IPS <NTSC> / 720×576 pixels with 25 IPS <PAL> CIF: 352×240 pixels with 120 IPS <NTSC> / 352×288 pixels with 100 IPS <PAL>			
Adjustable Recording Speed	Frame: 30, 15, 7, 3 IPS <NTSC> / 25, 12, 6, 3 IPS <PAL> CIF: 120, 60, 30, 15 IPS <NTSC> / 100, 50, 25, 12 IPS <PAL>			
Image Quality Setting	Best, High, Normal and Basic			
Hard Disk Storage (Supports over 1000GB HDD capacity, and HDDs are optional)	Supports HDD * 1	Supports SATA HDD * 1		
HDD Quick Cleaning	Quick clean up the “index system” of the recorded files. 1000GB under 2 seconds			
Recording Mode	Manual / Timer / Motion / Alarm / Remote			
Refresh Rate	120 IPS for NTSC / 100 IPS for PAL			
Audio I/O	1 audio input, 1 audio output (Mono)			
VGA Interface	NO			YES
USB Interface	NO		Rear Panel x 1	
SATA Interface	NO	YES		
Motion Detection Area	16 × 12 grids per camera for all channels			
Motion Detection Sensitivity	4 adjustable variables with precise calculation for motion detection			
Pre-alarm Recording	Yes (8MB)			
Backup Device	Network		Network / USB flash drive	
Web Transmitting Compression Format	MPEG4			
Ethernet	10/100 Base-T. Support remote control and live view via Ethernet.			
Web Interface	Support licensed software AP, IE browser & Mozilla Firefox browser			
Remote Alarm Notification	E-mail images, and upload images to FTP site’s specific account			
Network Protocol	Support TCP/IP, PPPoE, DHCP and DDNS function			
PTZ control	Supports PELCO-D protocol			
IR Remote Control	NO		YES	
Dwell Time (Sequential Channel Switch)	Programmable with adjustable dwell time			
Alarm I/O	4 inputs, 1 output			
Digital Zoom	2X digital zoom (live mode)			
Key Lock	Yes			
Video Loss Detection	Yes			
Camera Title	Support up to 6 letters			
Video Adjustable	Hue / Color / Contrast / Brightness			
Date Display Format	YY/MM/DD, DD/MM/YY, MM/DD/YY, and Off			
Power Source	DC 19V			
Power Consumption	< 42 W			
Operating Temperature	10℃ ~ 40℃ (50°F~104°F)			
Dimensions (mm)	343(W) × 59(H) × 223(D)		345(W) x 68.3(H) x 225(D)	
System Recovery	System auto recovery after power failure			
Optional Peripherals	Keyboard Controller			

* The specifications are subject to change without notice.

2. FRONT AND REAR PANELS

2.1 Front Panel

1) LED Indication

The following LEDs will be on when:

HDD: HDD is reading or recording

HDD Full: HDD is full.

ALARM: Once the alarm is triggered

TIMER: When timer recording is turned on

PLAY: Under playing status

REC: Under recording status

2) MENU

Press this button to enter / exit the DVR menu mode.

In the sub-layer of the DVR menu, press this button to confirm the settings and go back to the upper layer.

3) ENTER

Confirm the password entering.

4) REC

Press this button to activate manual recording.

5) LIST (Event List Search)

To quick search the recorded files by event list, press this button to show all types of the event lists.

Select one of the event list and press "ENTER" button to playback the selected file.

MANUAL: List the information of the manual-recorded files. The DVR will save one recorded file once any recording setting is changed

SYSTEM: List the information of the system-recorded files. The DVR system will save one recorded file every one hour.

MOTION: List the information of the motion-trigger-recorded files.

TIMER: List the information of the timer-recorded files.

6) SLOW

Under the playback mode,

Press "SLOW" button to get 1/2X speed playback.

7) Zoom

In the live mode of the DVR, press this button to enlarge the image of the selected channel.

8) 4 / -

Press "4" button to show the 4 channel display modes.

Press "-" button to change the setting in the menu.

9) SEQ / +

Press "SEQ" button to activate the call monitor function, and press again to quit.

Press "+" button to change the setting in the menu.

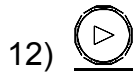
10) Power

Press this button long enough to turn on/off your DVR.

Note: Under the recording mode, please stop recording before turning off your DVR.

11) 1 / 2 / 3 / 4

Press one of these buttons to show the channel display of CH1 ~ CH4 on the monitor.



Press this button to play the recorded video.

13) Pause / Stop / Rew / FF

Under the playback mode:

Press one of these button to pause / stop / rewind / fast-forward the playback file.

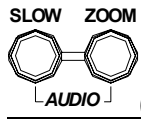
14) Up / Down / Left / Right

Press one of these direction buttons to move the cursor up/down/left/right.

Under the DVR menu mode, these direction buttons can use for the following operation:

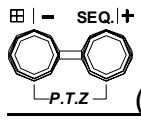
Up / Down: Make the selection / Change the settings

Left / Right: Make the selection



15) (Audio)

Press these two buttons at the same time to select live or playback sounds of the audio channels.



16) (PTZ)

Press these two buttons at the same time to enter / exit the PTZ control mode.

In the PTZ control mode → Zoom in: Press "+" button ; Zoom out: Press "-" button

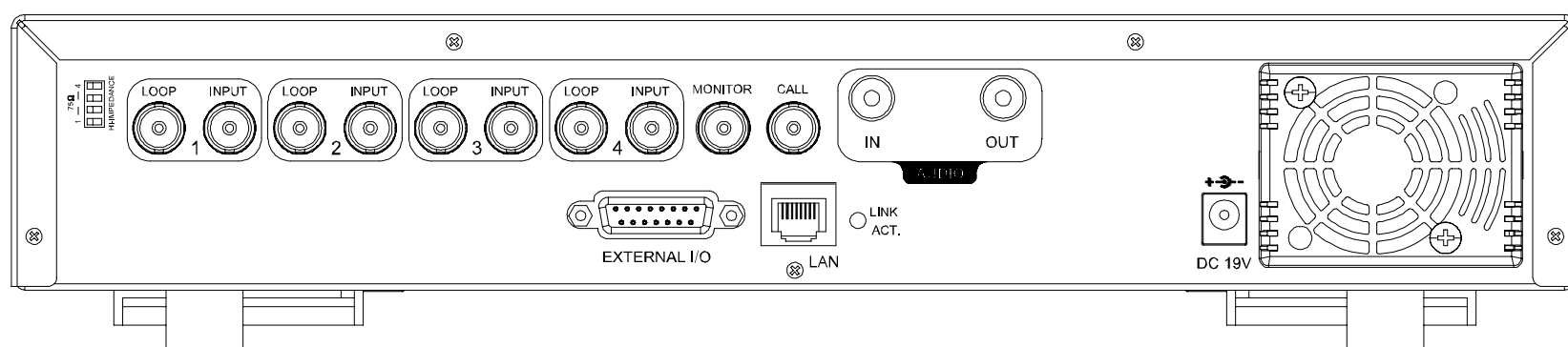
Adjust PTZ angle: Press direction buttons to turn up/down/left/right

17) "MENU" + "ENTER" (Key lock)

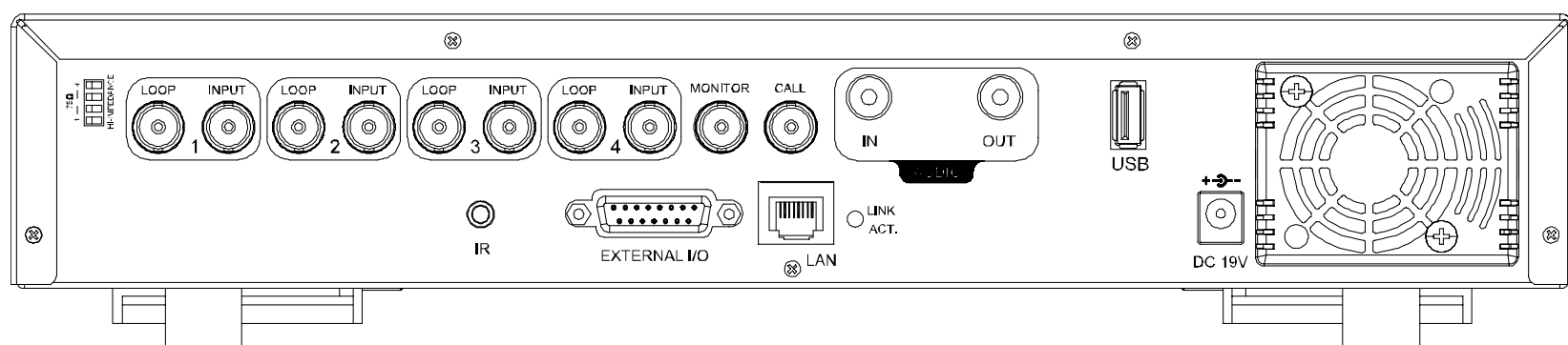
Press these two buttons at the same time to lock keys on the DVR front panel.

2.2 Rear Panel

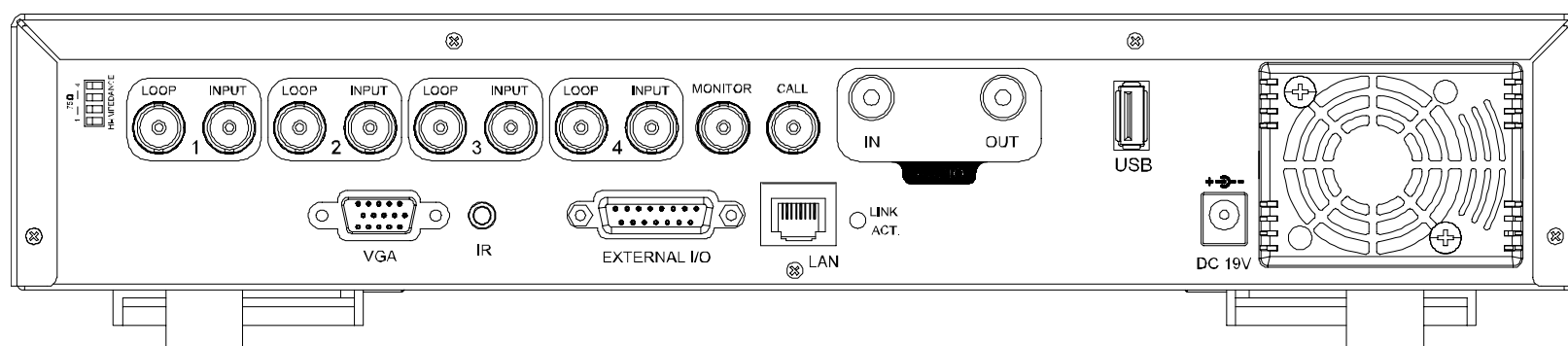
- Model 1 & 2



- Model 3



- Model 4



- 1) 75Ω / HI-IMPEDANCE

When using LOOP function, please switch to HI-IMPEDANCE. Otherwise, please switch to 75Ω.

- 2) LOOP / INPUT (For channel 1~4)

LOOP: Video output connector.

INPUT: Connect to video sources, such as cameras.

Note: If you want to playback the video with audio, please connect an audio camera to INPUT 1 on the DVR rear panel.

- 3) MONITOR

Connect to MAIN monitor.

- 4) CALL

Connect to CALL monitor to show the channel display one by one.

When any alarm is triggered, CALL monitor will show the image of the triggered channel for a period of time.

- 5) AUDIO IN

Connect to audio sources, such as cameras equipped with the audio function.

When users start recording, the audio input will also be recorded.

6) AUDIO OUT

Connect to a monitor or speaker with 1 mono audio output.

7) USB (Model 3 & 4 only)

To quickly backup or upgrade firmware/OSD, you can insert a compatible USB flash drive into this USB port.
Before using the USB flash drive, please use your PC to format the USB flash drive as "FAT32" first.

Note: For the list of compatible USB flash drives, please refer to "APPENDIX 2 COMPATIBLE USB FLASH DRIVE BRAND" at page 60.

8) IR (Model 3 & 4 only)

Connect the IR receiver for remote control.

9) EXTERNAL I/O

Insert the supplied 15PIN DSUB to this port for connecting external devices (external alarm, PTZ camera, etc).

For detailed I/O port PIN configuration, please refer to "APPENDIX 1 PIN CONFIGURATION" at page 59.

10) VGA (Model 4 only)

Connect to a LCD monitor directly.

11) LAN

Connect to Internet by LAN cable.

12) LINK ACT.

When your DVR is connected to the Internet, this LED will be on.

13) DC 19V

Connect to the supplied adapter.

3. CONNECTIONS AND SETUP

3.1 HDD Installation (Take Model 1 as an example)

The HDD must be installed before the DVR is turned on.

Step 1: Loose the screws on the upper cover and open the upper cover of the DVR.



STEP1-1: Remove Screws



STEP1-2: Remove DVR Upper Cover

Step 2: Remove the HDD bracket.



STEP 2: Remove HDD Bracket

Step 3: Get a compatible SATA HDD, and connect it to the power connector and data bus connector (make sure to align the HDD precisely for pin connection).



STEP3: Connect to power connector & data bus connector

Step 4: Put the HDD to the DVR, and replace the HDD bracket back to the DVR base.



STEP4: Put the HDD and replace the bracket back

Step 5: Close the upper cover of the DVR, and fasten all the screws you loosened in Step 1.

3.2 Camera Connection

The cameras must be connected and power-supplied **BEFORE** the DVR is turned on. The DVR will automatically detect the video system of the connected camera(s) (NTSC / PAL), and switch itself to the correct system.

Note: For detailed DVR video input / output ports, please refer to "2.2 Rear Panel" at page 5.
For detailed camera operation, please refer to its own manual.

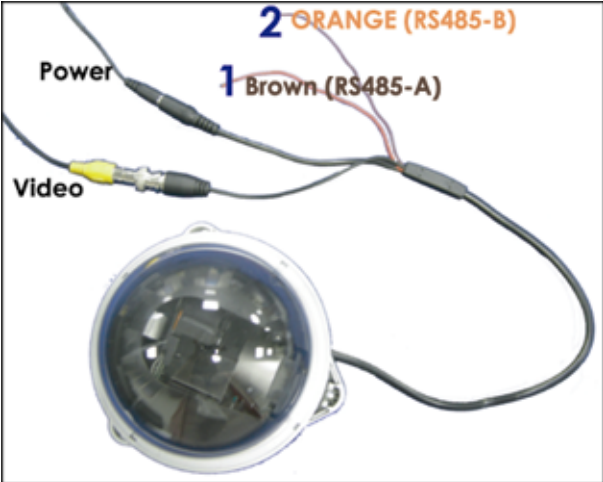
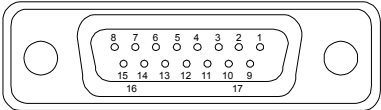
Note: If you want to make a video backup with audio, please connect audio camera to the CH1 which support the audio function

3.2.1 Normal Camera Connection

- 14) Power connection:
Connect the camera with indicated power supply.
- 15) Video cable connection:
Connect the camera video output to the DVR video input port with a coaxial cable or RCA line with BNC connector.
- 16) Camera Setup:
For detailed camera title, ID, protocol and baud rate setup, please refer to "7.3 REMOTE" at page 23.

3.2.2 PTZ Camera Connection

- 1) Power connection:
Connect the PTZ camera with indicated power supply.
- 2) Video cable connection:
Connect the PTZ camera video output to the DVR video input with a coaxial cable / RCA line and BNC connector.
- 3) RS485-A & RS485-B wires connection:
Solder the RS485-A (brown) and RS485-B (orange) wires of the PTZ camera to the corresponding pins on the solder side of the 15 PIN D-Sub connector (see the figure below). To protect the naked wires, use the insulation tape to cover on the twisted wires.

PTZ Camera – RS485-A and RS485-B wires of the PTZ camera	For 4CH DVR – 15 PIN D-Sub Connector
RS485-A: Brown wire	RS485-A: PIN 11
RS485-B: Orange wire	RS485-B: PIN 10
	Solder Side of 15-pin D-Sub connector RS485-A: PIN11; RS485-B: PIN10 

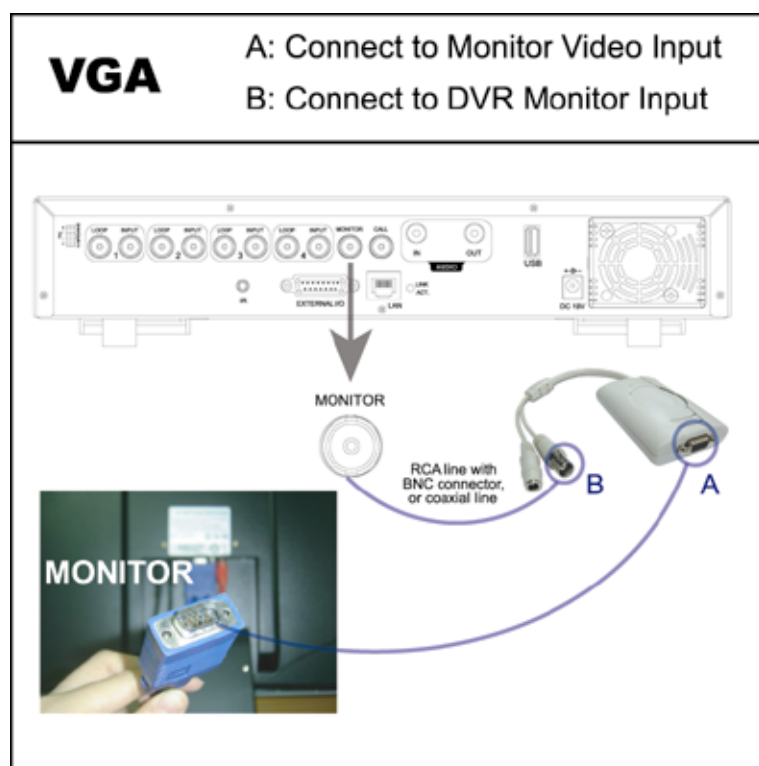
- 4) Camera Setup:
For detailed camera title, ID, protocol and baud rate setup, please refer to "7.3 REMOTE" at page 23.

Note: For connect the PTZ camera to the DVR with a keyboard controller, please refer to "3.3.3 Connect PTZ Camera and DVR with Keyboard Controller" at page 9.

3.3 External Device Connections

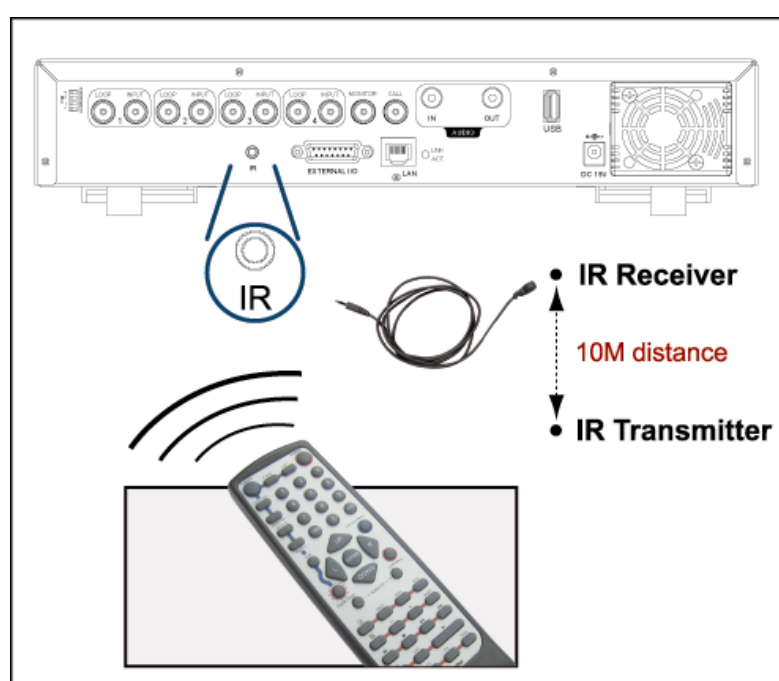
3.3.1 VGA Converter Connection (Model 1, 2, 3 & 4 only)

This **optional** peripheral allows your DVR to have VGA output function. For the connection method, please refer to the following figure as an example (do not use gender changer). For detailed connection, please refer to your VGA converter manual.



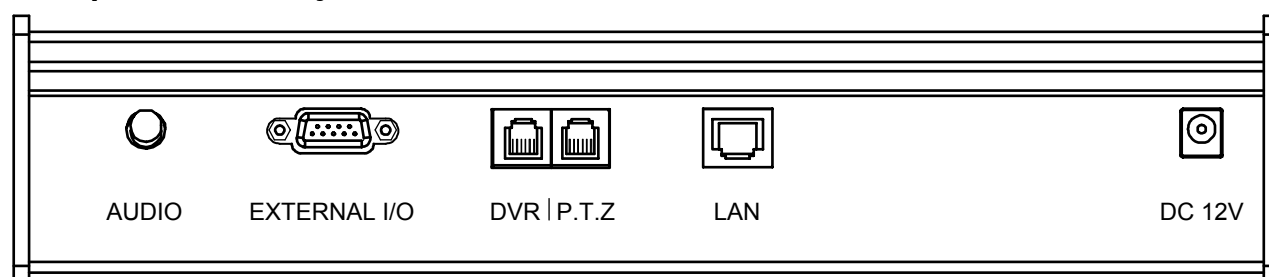
3.3.2 IR Transmitter (Model 3 & 4 only)

Please connect the IR receiver line to the IR port on the DVR rear panel. And make sure the IR function is activated in the DVR menu (The default setting is on). Please refer to the following figure as an example.

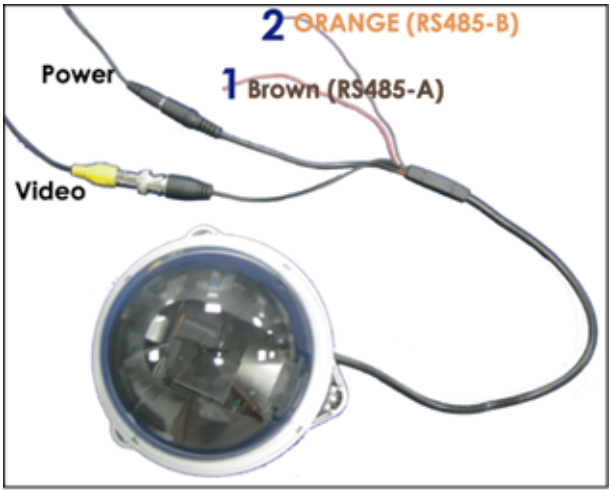


3.3.3 Connect PTZ Camera and DVR with Keyboard Controller

This **optional** peripheral (keyboard controller) allows your DVR to have accurate control of the pan / tilt / zoom movement for a PTZ camera with the convenient 3D joystick and functional keypad design. The following connection illustration is an example. For detailed connection and operation, please refer to your keyboard controller manual.

Rear panel of the keyboard controller:

● **Connect PTZ Camera to Keyboard controller with RJ11 line:**

RJ11 Line	RS485-A and RS485-B wires of the PTZ camera
RS485-A: Red wire	RS485-A: Brown wire
RS485-B: Green wire	RS485-B: Orange wire
	
<i>The RJ11 line is not supplied in the sales package.</i>	<i>Example of RS485-A and RS485-B wires of the PTZ camera.</i>

- 1) Get a **RJ11 line** with the proper length to your connection.
Different RJ11 connector may have different line layout, so the connection might be different. If you cannot control the PTZ camera after connection, please reverse the RJ11 line connection with the PTZ camera.
- 2) **Remove one end of the insulating coating of the RJ11 line** to find the RS485-A and the RS485-B wires, and remove the insulating coating to reveal the naked wires for further connection.
- 3) **Twist the RS485-A (red) and RS485-B (green) wires of the RJ11 line to the RS485-A (brown) and RS485-B (orange) wires of the PTZ camera (see the figure above).** To protect the naked wires, use the insulation tape to cover on the twisted wires.
- 4) Connect the **RJ11 connector** to the “**PTZ**” port on the rear panel of the keyboard controller.
- 5) Press “**F1**” key on the keyboard controller, and go to “System” and “Camera” menu to make related settings.

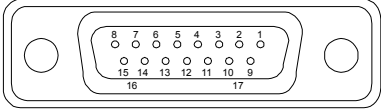
• **System**

MODE	: To select the mode, press “F1” key on the keyboard controller. Go to “System” → “MODE” and select M-1 (For the case of one DVR and one camera connection).
NET IP	: Check if this product is under the same domain as the connected PTZ camera.

• **Camera**

RATE	: Check and select the baud rate the same as the connected PTZ camera is used.
MODE	: Choose the proper camera protocol depending on the camera type, AVP321 / AVP311 / PELCO (PELCO-D).
ID	: Assign an exclusive ID number. This ID is important for the keyboard controller to identity the camera you want to control.

● **Connect DVR to Keyboard controller with RJ11 line and D-Sub connector or RS-485 Port:**

RJ11 Line	For 4CH DVR – 15 PIN D-Sub Connector
RS485-A: Red wire	RS485-A: PIN 11
RS485-B: Green wire	RS485-B: PIN 10
	Solder Side of 15-pin D-Sub connector RS485-A: PIN11; RS485-B: PIN10 
The RJ11 line is not supplied in the sales package.	D-Sub connector is supplied with the DVR package.

- 1) Get a **RJ11 line** with the proper length to your connection.
- Different RJ11 connector may have different line layout, so the connection might be different. If you cannot control the DVR after connection, please reverse the RJ11 line connection with the DVR.
- 2) **Remove one end of the insulating coating of the RJ11 line** to find the RS485-A and the RS485-B wires, and remove the insulating coating to reveal the naked wires for further connection.
- 3) **Solder the RS485-A (red) and RS485-B (green) wires of the RJ11 line to the corresponding pins on the solder side of the 15 PIN D-Sub connector (see the figure above).** To protect the naked wires, use the insulation tape to cover on the twisted wires.
- 4) Insert the **D-Sub connector** to the **DVR’s external I/O port**. And connect the **RJ11 connector** to the **“DVR” port on the rear panel of the keyboard controller**.

Press “F1” key on the keyboard controller, and go to “System” and “DVR” menu to make related settings.

• **System**

MODE	: To select the mode, press “F1” key on the keyboard controller. Go to “System” → “MODE” and select M-1 (For the case of one DVR and one camera connection).
NET IP	: Check if this product is under the same domain as the DVR.

• **DVR**

RATE	: Check and select the baud rate the same as the DVR is used.
MODE	: Choose the proper DVR protocol depending on the DVR type, DVR-16 (16CH) / DVR-8 (8CH) / DVR-4 (4CH).
ID	: Assign an exclusive ID number. This ID is important for the keyboard controller to identity the DVR you want to control.

3.4 Power Setup

This device should be operated only with the type of power source indicated on the manufacturer’s label. Connect the indicated AC power cord to the power adapter, and plug into an electrical outlet. The power LED “” will be on as green. It takes approximately 10 to 15 seconds to boot the system.

3.5 Date and Time Setting

Before operating your DVR, please set the date and time on your DVR first.

Press the “MENU” button and enter the password to go to the menu list. The default admin password is 0000. Move the cursor to “DATE” and you can set the date / time / daylight saving in the “DATE” menu list.

3.6 Password Setting

Press the “MENU” button and enter the password to go to the menu list. Then, move the cursor to “ADVANCE” to enter the advanced setting menu.

In the “ADVANCE” menu, move the cursor to “SYSTEM”. Select “PASSWORD” and press the “ENTER” button to enter the submenu to set the password (four digits). The default admin password is 0000.

ADVANCE	SYSTEM	
CAMERA	SERIAL TYPE	RS485
DETECTION	BAUDRATE	2400
REMOTE	HOST ID	0
DISPLAY	PASSWORD	XXXX
ALERT	RESET DEFAULT	RESET
SYSTEM	CLEAR HDD	HDD-MASTER-1
NETWORK	UPGRADE	START
BACKUP	AUTO KEYLOCK	NEVER
HDD INFO	LANGUAGE	ENGLISH
	VIDEO FORMAT	NTSC
	VERSION	1160-1012-1021-1014-M3-6C1B

4. BASIC OPERATION

4.1 Live Page

In this live page of the DVR, you can see the following icons:

Icon	Function	Icon	Function	Icon	Function
	Key lock		Digital zoom mode		Alarm
	Key unlock		Digital zoom unselected		Recording
	Live audio channel		Timer recording		Motion
	Playback audio channel		PTZ control mode		
	Audio channel unselected		Full screen sequence mode		

4.2 Recording

When the recording and the pre-alarm function are activated, this device will overwrite 8GB data from the oldest for continuous recording without notice.

1) Continuous Recording Icon

When the DVR is properly connected with camera, you can see the icon “” (recording) on the monitor.

2) Motion Recording Icon

When the motion / alarm detection is activated, once motion or external alarm happens, you will see the icon “” (motion) and “” (alarm) on the monitor.

3) Timer Recording Icon

When the timer record is activated, you will see the icon “” (timer) on the monitor

Note: The audio source connected to the “Audio 1” will be recorded with the video of the “CH1”.

4.3 Playback

Press the “PLAY” button on the DVR control panel, and the device will playback the latest recorded video.

Note: There must be at least 8192 images of recorded data for playback to work properly. If not, the device will stop playback. For example, if the IPS is set to 30, the recording time should be at least 273 seconds (8192 images / 30 IPS) for the playback to work properly.

1) Fast Forward / Fast Rewind

You can increase the speed for fast forward and rewind on this device. In the playback mode:

Press “FF” once to get 4X speed forward and press twice to get 8X speed, etc. And the maximum speed is 32X.

Press “REW” once to get 4X speed rewind and press twice to get 8X speed, etc. And the maximum speed is 32X.

Note: During playback, the image size of the recording (CIF) will be shown on the screen.

2) Pause / Image Jog

Press “PAUSE” button to pause the playback.

In the pause mode:

Press “▶” button once to get one frame forward.

Press “◀” button once to get one frame rewind.

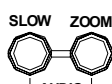
3) Stop

Pressing “STOP” button under playback mode, the screen of this device will return to live monitoring mode.

4) Slow Playback

Press “SLOW” button to get 1/4X speed playback and press twice to get 1/8X speed playback.

5) Audio Playback

Use these two buttons  to select the live or playback sound of the audio channels.



Live audio of the 1st audio channel



Playback audio of the 1st audio channel

Note: If you want to make a video backup with audio, please connect your camera which supports the audio function to CH1 first.

4.4 Key Lock and Unlock

1) Key Lock On:

Press “MENU” + “ENTER” buttons at the same time on the DVR control panel to lock keys.

Or set the time-out after which the key lock function is activated (Never / 10 SEC / 30 SEC / 60 SEC). Please refer to “7.5 SYSTEM” at page 25.

2) Key Lock Off:

Enter the DVR password to exit “Key Lock” mode.

Note: For the password setting, please refer to the section “3.6 Password Setting” at page 12.

4.5 Upgrade

• Firmware / Multilanguage OSD Upgrade

1) Use USB flash drive to upgrade firmware or OSD:

Step 1. Format the USB memory device as FAT32 format first.

Step 2. Get the upgrade files from your distributor and save the upgrade files in your USB flash device (do not change the file name).

Step 3. In the “SYSTEM” menu, move the cursor to “UPGRADE”, and press “ENTER” button.

Step 4. Select “YES”, and press “ENTER” button again to confirm upgrade.

2) Use the supplied software AP to remotely upgrade firmware or OSD:

Step 1. Save the upgrade files at your PC (do not change the file name) and then login to the AP software.

Step 2. Press “” (Miscellaneous Control) button to show the miscellaneous control panel. In the miscellaneous control panel, press “” (Tools) button on the miscellaneous control panel to enter the AP upgrade window.

Step 3. Enter the user name, password, IP address and port number of the DVR.

Step 4. Press “Firmware” or “Language” tab as needed, and press “Add” to select the firmware or OSD files to upgrade.

Step 5. Press “Update Firmware” or “Update Language” button to start the upgrade.

Note: For remote upgrade details, please see “Tools” at page 51.

4.6 Search

1) Search by List

Press “LIST” button on the DVR control panel to show the list for all types of the recorded files. Choose the list you want to view and press “ENTER” button to start playback.

ALARM	List the information of the alarm-trigger-recorded files.
MANUAL	List the information of the manual-recorded files. The DVR will save one recorded file once any recording setting is changed.
MOTION	List the information of the motion-trigger-recorded files.
SYSTEM	List the information of the system-recorded files. The DVR system will save one recorded file every one hour.
TIMER	List the information of the timer-recorded files.

2) Quick Search by Time

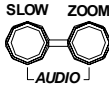
Press the “MENU” button to enter the menu list, move the cursor to “QUICK SEARCH”, and press “ENTER” button to enter the quick time search menu. You can search any specific events by time (Year / Month / Day / Hour / Min) and directly play the file you find.

3) Search the Record Event by Log on the AP Software

Press “” (Miscellaneous Control) button to show the miscellaneous control panel. In the miscellaneous control panel, press “” (Status List) button to enter the “Status List” page. In this page, you can see the list of three different types of recording (User / Motion / Alarm) and press “Play” button to directly playback the file.

4.7 Audio Backup and Playback

For audio backup, you need to connect your camera(s) which supports the audio function to CH1 first. For local backup instructions, please refer to “7.7 BACKUP (Model 3 & 4 Only)” at page 28. For remote backup instructions, please refer to “Network Backup” at page 34.

To select live or playback sounds of the audio channels, press these two buttons  on the DVR front panel at the same time. For detailed playback instructions, please refer to “4.3 Playback” at page 13. For detailed playback instructions at the remote side, please refer to “Playback” at page 33.

5. MENU CONFIGURATION

MAIN MENU	QUICK SEARCH	DATE
		SEARCH HDD
	RECORD	IMAGE SIZE
		QUALITY
		MANUAL RECORD ENABLE
		EVENT REOCDR ENABLE
		TIMER RECORD ENABLE
		MULTIPLEX MODE
		MANUAL RECORD IPS
		EVENT RECORD IPS
		TIMER RECORD IPS
	TIMER	RECORD TIMER
		DETECTION TIMER
	DATE	DATE
		FORMAT
		DAYLIGHT SAVING
	ADVANCE	
ADVANCED MENU	CAMERA	TITLE
		BRIG
		CONT
		SATU
		HUE
		COV.
	DETECTION	TITLE
		DET
		AREA
		LS
		SS
		TS
		RE
		ALARM
	REMOTE	TITLE
		DEVICE
		ID
		PROTOCOL
		RATE
	DISPLAY	DE-INTERLACE
		FULL SCREEN DWELL DURATION (SEC)
		CHANNEL TITLE
		EVENT STATUS
		DATE DISPLAY
	ALERT	EXT. ALERT
		INT. BUZZER
		KEY BUZZER
		VLOSS BUZZER
		MOTION BUZZER
		ALARM BUZZER
		ALARM DURATION (SEC)
	SYSTEM	SERIAL TYPE
		BAUDRATE
		HOST ID
		PASSWORD
		RESET DEFAULT
		CLEAR HDD
		UPGRADE
		AUTO KEYLOCK (SEC)
		LANGUAGE
		VIDEO FORMAT
		VERSION

	NETWORK	NETWORK TYPE
		IP
		GATEWAY
		NETMASK
		PRIMARY DNS
		SECONDARY DNS
		PORT
	BACKUP	START TIME
		END TIME
		AVAILABLE SIZE
	HDD INFO	HDD NUM
		HDD SIZE (GB)
	EVENT LOG	EVENT
		TIME
		COMMENT

6. QUICK START MENU

Press the “MENU” button and enter the password to go to the quick-start menu list. The default admin password is 0000. Users can change the password later. Please refer to “SYSTEM” at page 25.

ITEM	FUNCTION
MENU	Enter / exit the quick start menu Under the sub-layer of the advanced setting menu, use this button to confirm the settings and go back to the upper layer.
▲ ▼	Make the selection / Change the setting
◀ ▶	Go to the upper layer or sub-layer / Make the selection
ENTER	Confirm the password entering Go to the sub-layer of the advanced menu
→ NEXT	Move the cursor to this item and press the “ENTER” button to go the next page.
← BACK	Move the cursor to this item and press “ENTER” button to go the previous page.

6.1 QUICK SEARCH

In this menu list, you can search any specific events by time and directly play the file you find.

Move the cursor to “QUICK SEARCH”, and press “ENTER” button.

You will see a similar screen as the following:

MENU	TIME SEARCH
QUICK SEARCH	DATE 2007 / OCT / 10 21 : 30 : 00
RECORD	SEARCH HDD ALL HDD
TIMER	START
DATE	
ADVANCE	
	PLEASE CONSULT YOUR INSTALLER FOR ADVANCE SETTING
	↑↓ SELECT ← BACK → NEXT ↵ ENTER

The submenu items are described below:

1) DATE

Select the specific time period (YEAR / MONTH / DAY / HOUR / MIN) that you want to search.

2) SEARCH HDD

Change to the HDD you want if there are more than 1 HDD in your DVR.

3) START

Move the cursor to “START” and press “ENTER” button to search and directly playback the recorded files.

6.2 RECORD

In this menu list, you can set record settings. Press “MENU” button on the front panel to enter the main menu list. The default admin password is **0000**. Enter the default password, and press “ENTER”. Users can change the password later.

Move the cursor to “RECORD”, and press “ENTER”. The screen will show the following options:

MENU
QUICK SEARCH
RECORD
TIMER
DATE
ADVANCE

RECORD	
IMAGE SIZE	FRAME
QUALITY	BEST
MANUAL RECORD ENABLE	ON
EVENT RECORD ENABLE	ON
TIMER RECORD ENABLE	ON
MANUAL RECORD IPS	30
EVENT RECORD IPS	30
TIMER RECORD IPS	30
PLEASE CONSULT YOUR INSTALLER FOR ADVANCE SETTING	
↑↓ SELECT ← BACK → NEXT ↵ ENTER	

The submenu items are described below:

- 1) IMAGE SIZE
select FRAME or CIF.
- 2) QUALITY
Select one of the 4 quality options: BEST, HIGH, NORMAL and BASIC.
- 3) MANUAL RECORD ENABLE
Start / stop the manual recording function.
- 4) EVENT RECORD ENABLE
Start / stop the event recording function. When this function is enabled, the recording will be triggered by any motion or external alarm.
- 5) TIMER RECORD ENABLE
Start / stop the timer recording function.
- 6) MANUAL RECORD IPS
Select the images per second for MANUAL RECORD.
- 7) EVENT RECORD IPS
Select the images per second for EVENT RECORD (Recording that is triggered by alarm or motion).
- 8) TIMER RECORD IPS
Select the images per second for TIMER RECORD (Recording that is activated according to the scheduled time.).
The IPS options are as following:

NTSC		PAL	
FRAME	30 / 15 / 7 / 3	FRAME	25 / 12 / 6 / 3
CIF	120 / 60 / 30 / 15	CIF	100 / 50 / 25 / 17

6.2 TIMER

Press “MENU” button on the front panel to enter the main menu list. Move the cursor to “TIMER”, and press “ENTER”. Select to enable (ON) or disable (OFF) the recorder timer and / or detection timer functions.

MENU
QUICK SEARCH
RECORD
TIMER
DATE
ADVANCE

TIMER	
RECORD TIMER	OFF
DETECTION TIMER	OFF
PLEASE CONSULT YOUR INSTALLER FOR ADVANCE SETTING	
↑↓ SELECT ← BACK → NEXT ↵ ENTER	

6.3 DATE

In this menu list, you can set up the system date and time for this device.

Note: When the recording function is activated, please **DO NOT** change the date or time on your DVR.

Press “MENU” button on the front panel to enter the main menu list. Move the cursor to “DATE”, and press “ENTER”. The screen will show the following options.

The submenu items are described below:

MENU
QUICK SEARCH
RECORD
TIMER
DATE
ADVANCE

DATE	
DATE	2008 / FEB / 15 19 : 15 : 27
FORMAT	Y/M/D
DAYLIGHT SAVING	OFF
PLEASE CONSULT YOUR INSTALLER FOR ADVANCE SETTING	
↑↓ SELECT ← BACK → NEXT ↵ ENTER	

1) DATE:

Set the current date and time. The default order is “YEAR – MONTH – DATE HOUR : MIN : SEC”.

2) FORMAT

Select one date format from the following 3 options: Y-M-D, M-D-Y, D-M-Y.

3) DAYLIGHT SAVING

Specify whether to use daylight-saving time (ON / OFF). If it's set to ON, press “ENTER” to go to its submenu for further settings. You will see a similar screen as following.

DAYLIGHT SAVING		
START TIME	1ST - SUN - MAR	24 : 00 : 00
END TIME	LAST - SUN - OCT	24 : 00 : 00
ADJUST		01 : 00
PLEASE CONSULT YOUR INSTALLER FOR ADVANCE SETTING		
↑↓ SELECT ← BACK → NEXT ↵ ENTER		

Set the start time and end time, and adjust the daylight saving time in hour. The above example means during the daylight-saving time period (starting from the 4th Sunday of March and ending on the 4th Sunday of October), the system time will plus one hour.

7. ADVANCED MENU

Press “MENU” button on the front panel to enter the main menu list. Move the cursor to “ADVANCE”, and press “ENTER”. The screen will show the following options.

MENU	ADVANCE
QUICK SEARCH	CAMERA
RECORD	DETECTION
TIMER	REMOTE
DATE	DISPLAY
ADVANCE	ALERT
	SYSTEM
	NETWORK
	BACKUP
	HDD INFO
	EVENT LOG

7.1 CAMERA

In this submenu, you can make advanced camera settings, such as changing the camera title, or adjust the brightness. Move the cursor to “CAMERA”, and press “ENTER”. You will see a similar screen as the following:

ADVANCE	CAMERA						
CAMERA	TITLE	BRIG	CONT	SATU	HUE	COV	REC
DETECTION	CH1	110	120	128	128	NO	ON
DISPLAY	CH2	110	120	128	128	NO	ON
REMOTE	CH3	110	120	128	128	NO	OFF
ALERT	CH4	110	120	128	128	NO	OFF
SYSTEM	PLEASE CONSULT YOUR INSTALLER FOR ADVANCE SETTING						
NETWORK	↑↓ SELECT ← BACK → NEXT ↵ ENTER						
BACKUP							
HDD INFO							
EVENT LOG							

The submenu items are described below:

1) TITLE

You can change the default camera naming here. The default title is the channel number.

Move the cursor to the camera title you want to change, and press “ENTER” to access the character selection screen. Assign a new name to the camera up to six characters (letters or symbols).

2) BRIG/CONT/SATU/HUE

You can adjust the brightness/contrast/saturation/hue of each channel here. The default value of BRIG is 110, and others are 128. The value is adjustable from 0 to 255.

3) COV.

Select if you want to mask the selected channel under recording (YES/NO). When this function is activated, the wording “COV.” will be shown on the screen.

4) REC

Select if you want to enable recording for the selected channel (YES/NO). When this function is activated, the symbol “” will be shown on the channel screen.

7.2 DETECTION

In this submenu, you can set up detection-related functions: DETECTION SETUP and DETECTION TIMER. Move the cursor to "DETECTION", and press "ENTER". The screen will show the following options.

ADVANCE	DETECTION							
CAMERA	TITLE	DET	AREA	LS	SS	TS	RE	ALARM
DETECTION	CH1	ON	SETUP	07	03	02	10	OFF
REMOTE	CH2	OFF	SETUP	07	03	02	10	N.C.
DISPLAY	CH3	OFF	SETUP	07	03	02	10	N.O.
ALERT	CH4	OFF	SETUP	07	03	02	10	OFF
SYSTEM	PLEASE CONSULT YOUR INSTALLER FOR ADVANCE SETTING							
NETWORK	↑↓ SELECT ← BACK → NEXT ↵ ENTER							
BACKUP								
HDD INFO								
EVENT LOG								

The submenu items are described below:

- 1) **TITLE:** Show the camera title of each channel set in "CAMERA".
- 2) **DET:** Select if you want to activate the motion detection function for the selected channel (ON/OFF).
- 3) **AREA**

Press "ENTER" button to set the detection area. You will see similar screens as the following:

Pink blocks represent the area that is not being detected while the transparent blocks are the area under detection.

Note: If the connected video output device is LCD monitor, but the "MONITOR OUT" setting in "DISPLAY" menu is "MAIN", the motion detection area setting will be disabled.



Transparent blocks are the area under detection.



Press "ENTER" button to confirm the start area.



Press "LEFT" / "RIGHT" button to choose the width of the detection area.



Press "UP" / "DOWN" button to choose the height of the area.



You can also set up multi-detection area.



When any movement is detected, you will see the grids are flashing.

4) LS (Level of Sensitivity)

“LS” is to set the sensitivity of comparing two different images. The smaller the value is, the higher sensitivity for motion detection. The highest sensitivity setting is 00, and the lowest sensitivity setting is 15. The default value is 07.

5) SS (Spatial Sensitivity)

“SS” is to set the sensitivity for detecting the size of one object (the number of the grids) on the screen. The smaller the value is, the higher sensitivity for motion detection.

The highest sensitivity setting is 00, and the lowest sensitivity setting is 15. The default setting is 03.

Note: The default setting of SS is 03, which means once an object is detected more than 3 grids, the system will get triggered. So the value of SS must be less than the number of grids that you set up for the motion detection area.

6) TS (Time of Sensitivity)

“TS” is to set the sensitivity regarding how long one object stays in the detection area and triggers the recording. The smaller the value is, the higher sensitivity for motion detection.

The highest sensitivity setting is 00, and the lowest sensitivity setting is 15. The default setting is 02.

7) RE (Reference)

“RE” is to set a reference for detection. The default value is 10, which means the DVR will compare 10 continuous images at one time according to the sensitivity of LS, SS, TS simultaneously.

The bigger the value is, the higher sensitivity for motion detection. The highest sensitivity is 61.

8) ALARM

Select N.C. (Normally Closed) / N.O. (Normally open) / OFF for the alarm polarity. The default alarm value is OFF.

7.3 REMOTE

In this menu list, you can set up remote devices to work properly.

Move the cursor to “REMOTE”, and press “ENTER”. You will see a similar screen as the following:

ADVANCE	REMOTE				
CAMERA	TITLE	DEVICE	ID	PROTOCOL	RATE
DETECTION	CH1	PTZ	000	P-D	2400
REMOTE	CH2	CAMERA	000	NORMAL	2400
DISPLAY	CH3	CAMERA	000	NORMAL	2400
ALERT	CH4	CAMERA	000	NORMAL	2400
SYSTEM	PLEASE CONSULT YOUR INSTALLER FOR ADVANCE SETTING				
NETWORK	↑↓ SELECT ← BACK → NEXT ↵ ENTER				
BACKUP					
HDD INFO					
EVENT LOG					

The submenu items are described below:

1) TITLE

Show the camera title of each channel set in “CAMERA”.

2) DEVICE

Select the device type (CAMERA / PTZ) according to the connected camera for each channel.

3) ID

Set the ID number (0 ~ 255) for a PTZ camera.

After connecting to a PTZ camera correctly, the default ID of the PTZ camera will be shown on the screen.

4) PROTOCOL

Select NORMAL (our protocol) or P-D (PELCO-D) protocol.

5) RATE

Set the baud rate of each channel (2400 / 4800 / 9600 / 19200 / 57600). For the connected cameras, such as PTZ and speed dome cameras, etc., please make sure their baud rate setting is the same as the setting here.

7.4 DISPLAY

In this menu list, you can check and change some display settings.

Move the cursor to "DISPLAY", and press "ENTER". You will see a similar screen as the following:

ADVANCE	DISPLAY
CAMERA	DE-INTERLACE ON
DETECTION	FULL SCREEN DWELL DURATION (SEC) 03
REMOTE	CHANNEL TITLE ON
DISPLAY	EVENT STATUS ON
ALERT	DATE DISPLAY ON
SYSTEM	
NETWORK	PLEASE CONSULT YOUR INSTALLER FOR ADVANCE SETTING
BACKUP	↑↓ SELECT ← BACK → NEXT ↵ ENTER
HDD INFO	
EVENT LOG	

The submenu items are described below:

1) DE-INTERLACE

Select to enable or disable "DE-INTERLACE" function (ON / OFF).

2) FULL SCREEN DWELL DURATION (SEC)

Set the full screen dwell duration time (3 / 5 / 10 / 15 seconds).

3) CHANNEL TITLE

Select to display the channel title or not (ON / OFF).

4) EVENT STATUS

Select to display the symbols of the event or not (ON / OFF).

5) DATE DISPLAY

Select to display the date or not (ON / OFF).

7.4 ALERT

In this menu list, you can set alerts for different kinds of situations, such as when HDD is full.

Move the cursor to "ALERT", and press "ENTER". You will see a similar screen as the following:

ADVANCE	ALERT
CAMERA	EXT. ALERT ON
DETECTION	INT. BUZZER ON
REMOTE	KEY BUZZER ON
DISPLAY	VLOSS BUZZER ON
ALERT	MOTION BUZZER ON
SYSTEM	ALARM BUZZER ON
NETWORK	ALARM DURATION (SEC) 05
BACKUP	
HDD INFO	PLEASE CONSULT YOUR INSTALLER FOR ADVANCE SETTING
EVENT LOG	↑↓ SELECT ← BACK → NEXT ↵ ENTER

The submenu items are described below:

1) EXT. ALERT

Select to enable or disable the sound when any external alarm is triggered (ON / OFF).

2) INT. BUZZER

Select to enable or disable the sound (ON / OFF) for all the internal buzzers: KEY BUZZER, VLOSS BUZZER, MOTION BUZZER, ALARM BUZZER, and HDD BUZZER.

Note: When this item is set to OFF, item 3) to item 7) will be disabled even though they are set to ON.

3) KEY BUZZER

Select to enable or disable the sound when pressing the buttons on the front panel (ON / OFF).

4) VLOSS BUZZER

Select to enable or disable the sound when video loss happened (ON / OFF).

5) MOTION BUZZER

Select to enable or disable the sound when any motion alarm is triggered (ON / OFF).

6) ALARM BUZZER

Select to enable or disable the sound when any internal alarm is triggered (ON / OFF).

7) ALARM DURATION (SEC)

Press "ENTER" or "+" / "-" button to set the duration time of alarm recording in second (5 / 10 / 20 / 40).

7.5 SYSTEM

In this menu list, you can check or change some system settings.

Move the cursor to "SYSTEM", and press "ENTER". You will see a similar screen as the following:

ADVANCE	SYSTEM	
CAMERA	SERIAL TYPE	RS485
DETECTION	BAUDRATE	2400
REMOTE	HOST ID	0
DISPLAY	PASSWORD	XXXX
ALERT	RESET DEFAULT	RESET
SYSTEM	CLEAR HDD	HDD-MASTER-1
NETWORK	UPGRADE	START
BACKUP	AUTO KEYLOCK	NEVER
HDD INFO	LANGUAGE	ENGLISH
EVENT LOG	VIDEO FORMAT	NTSC
	VERSION	1160-1012-1021-1014-M3-6C1B
	PLEASE CONSULT YOUR INSTALLER FOR ADVANCE SETTING	
	↑↓ SELECT ← BACK → NEXT ↵ ENTER	

The submenu items are described below:

1) SERIAL TYPE

Press "UP" / "DOWN" button to set the serial type of the DVR (RS485 / RS232).

2) BAUDRATE

Press "UP" / "DOWN" button to set the baud rate of the DVR (2400 / 9600 / 19200 / 57600).

3) HOST ID

Press "UP" / "DOWN" button to set the ID of the DVR (0 ~ 255).

4) PASSWORD

Press "ENTER" to reset the password for accessing the DVR system (ADMIN PASSWORD or GUEST PASSWORD). You can set the password up to 4 digits.

Press "ENTER" to reset all settings as default, and select "YES" to confirm or "NO" to cancel.

Press "ENTER", and select "YES" to confirm to clear HDD or "NO" to cancel.

Press "ENTER", and select "YES" to confirm upgrade or "NO" to cancel.

Note: To use this function, you need to have the upgrade file saved in a compatible USB flash drive, and insert it into the USB port at the front or rear panel.

Note: Do not disconnect the power of your DVR while the upgrade process is in progress, or the DVR functions may not work normally or be unable to use.

Set the time-out in second after which the key lock function is activated (Never / 10 / 30 / 60).

Press “ENTER” to select the language of the OSD.

Here shows the information of the DVR video format (NTSC / PAL).

Here shows the firmware version information.

In this menu list, you can set up the network.

Move the cursor to “NETWORK”, and press “ENTER”. You will see a similar screen as the following:

ADVANCE	NETWORK
CAMERA	NETWORK TYPE STATIC
DETECTION	IP 192 . 168 . 001 . 012
REMOTE	GATEWAY 192 . 168 . 001 . 254
DISPLAY	NETMASK 255 . 255 . 252 . 000
ALERT	PRIMARY DNS 168 . 095 . 001 . 001
SYSTEM	SECONDARY DNS 139 . 175 . 055 . 244
NETWORK	PORT 0080
BACKUP	PLEASE CONSULT YOUR INSTALLER FOR ADVANCE SETTING
HDD INFO	↑↓ SELECT ← BACK → NEXT ↵ ENTER
EVENT LOG	

The submenu items are described below:

Select the network type as **STATIC** and set all the information needed in the DVR.

Key in all the network information obtained from your ISP (Internet Service Provider).

3) DNS (PRIMARY DNS / SECONDARY DNS)

Key in the IP address of the domain name server obtained from your ISP (Internet Service Provider).

4) PORT

The valid number ranges from 1 to 9999. The default value is 80. Typically, the TCP port used by HTTP is 80. However in some cases, it is better to change this port number for added flexibility or security.

See the example below:

STATIC	
NETWORK TYPE	STATIC
IP	192 . 168 . 001 . 012
GATEWAY	192 . 168 . 001 . 254
NETMASK	255 . 255 . 252 . 000
PRIMARY DNS	168 . 095 . 001 . 001
SECONDARY DNS	139 . 175 . 055 . 244
PORT	0080
PLEASE CONSULT YOUR INSTALLER FOR ADVANCE SETTING	
↑↓ SELECT ← BACK → NEXT ↵ ENTER	

• **PPPOE**1) NETWORK TYPE

Select the network type as PPPOE.

2) USER NAME / PASSWORD

Set the “username” and “password” subscribed from your ISP supplier

3) DNS (PRIMARY DNS / SECONDARY DNS)

Key in the IP address of the domain name server obtained from your ISP (Internet Service Provider).

4) PORT

The valid number ranges from 1 to 9999. The default value is 80. Typically, the TCP port used by HTTP is 80. However in some cases, it is better to change this port number for added flexibility or security.

See the example below:

PPPOE	
NETWORK TYPE	PPPOE
USER NAME	EMPTY
PASSWORD	EMPTY
IP	000 . 000 . 000 . 000
GATEWAY	000 . 000 . 000 . 000
NETMASK	000 . 000 . 000 . 000
PRIMARY DNS	168 . 095 . 001 . 001
SECONDARY DNS	139 . 175 . 055 . 244
PORT	0080
PLEASE CONSULT YOUR INSTALLER FOR ADVANCE SETTING	
↑↓ SELECT ← BACK → NEXT ↵ ENTER	

Note: The PPPOE function needs to have one “username” and one “password” subscribed from one ISP supplier, and a “DDNS account” to correspond the dynamic IP address to a specific “Hostname”.

• DHCP

1) NETWORK TYPE

Select the network type as DHCP.

2) DNS (PRIMARY DNS / SECONDARY DNS)

Key in the IP address of the domain name server obtained from your ISP (Internet Service Provider).

3) PORT

The valid number ranges from 1 to 9999. The default value is 80. Typically, the TCP port used by HTTP is 80.

However in some cases, it is better to change this port number for added flexibility or security.

See the example below:

DHCP		
NETWORK TYPE		DHCP
IP	000 . 000 . 000 . 000	
GATEWAY	000 . 000 . 000 . 000	
NETMASK	000 . 000 . 000 . 000	
PRIMARY DNS	168 . 095 . 001 . 001	
SECONDARY DNS	139 . 175 . 055 . 244	
PORT		0080
PLEASE CONSULT YOUR INSTALLER FOR ADVANCE SETTING		
↑↓ SELECT ← BACK → NEXT ↵ ENTER		

Note: This DHCP function needs to be supported by a router or a cable modem network with DHCP services, and a “DDNS account” to correspond the dynamic IP address to a specific “Hostname”, for this function to work properly.

7.7 BACKUP (Model 3 & 4 Only)

The backup file can be played directly in your PC via the supplied licensed **software AP**, or via other **media players** (ex: Windows Media Player or RealPlayer) after the file is converted to “**AVI**” format.

Note: Before making a video backup with audio, you need to check whether there’s any audio camera connected to the channel which supports audio recording, and there’s any recorded data for the channel.

Before making USB backup, please check if:

- The USB flash drive is supported by your DVR. If not, the message “USB ERROR” will be shown on the screen.
For the list of the compatible USB flash drives, please refer to “APPENDIX 2 COMPATIBLE USB FLASH DRIVE BRAND” at page 60.
- The format of your USB flash drive is "FAT 32". If no, please format it to “FAT 32” in your PC.
- There is no data in the USB flash drive. If yes, it’s recommended to clear all data in the USB flash drive before starting the backup.

Move the cursor to “BACKUP”, and press “ENTER”. You will see the following options:

ADVANCE	USB BACKUP
CAMERA	START TIME 2006 – 12 – 01 21 : 35 : 00
DETECTION	END TIME 2006 – 12 – 01 21 : 45 : 00
REMOTE	AVAILABLE SIZE 1.460 GB
DISPLAY	CHANNEL ☐ 01 ☒ 02 ☐ 03 ☐ 04
ALERT	HDD NUM HDD-MASTER-1
SYSTEM	START
NETWORK	
BACKUP	PLEASE CONSULT YOUR INSTALLER FOR ADVANCE SETTING
HDD INFO	↑↓ SELECT ← BACK → NEXT ↵ ENTER
EVENT LOG	

The submenu items are described below:

- START TIME

Select the start time of the backup.

- END TIME

Select the end time of the backup.

- AVAILABLE SIZE

Display the available capacity in the inserted USB flash drive.

- CHANNEL

Select channels by pressing “ENTER” button to change the symbol in front of the channel number.

Symbol “ ☒ ” means that this channel is selected to backup.

Symbol “ ☐ ” means that this channel is not selected to backup.

- HDD NUM

Press “Up” or “Down” to select the HDD containing the data you need.

7.8 HDD INFO

In this menu list, you can view the remaining capacity of all the connected HDDs in this device.

Move the cursor to “HDD INFO”, and press “ENTER”. You will see a similar screen as the following:

ADVANCE	HDD INFO
CAMERA	HDD NUM HDD SIZE (GB) HDD NUM HDD SIZE (GB)
DETECTION	HDD-MASTER-1 368 HDD-SLAVE-1 NO HDD
REMOTE	
DISPLAY	
ALERT	PLEASE CONSULT YOUR INSTALLER FOR ADVANCE SETTING
SYSTEM	↑↓ SELECT ← BACK → NEXT ↵ ENTER
NETWORK	
BACKUP	
HDD INFO	
EVENT LOG	

7.9 EVENT LOG

In this menu list, you can view all the event information (event type, time and channel) or clear all log records.

Move the cursor to "EVENT LOG", and press "ENTER". You will see the following options:

ADVANCE	EVENT LOG			
CAMERA	EVENT	TIME		COMMENT
DETECTION	POWER ON	2007 / OCT / 10	20:27:49	16
REMOTE	VLOSS	2007 / OCT / 10	20:05:05	06
DISPLAY	VLOSS	2007 / OCT / 10	20:00:11	09
ALERT	VLOSS	2007 / OCT / 10	16:00:08	14
REMOTE	VLOSS	2007 / OCT / 10	15:09:32	13
SYSTEM	VLOSS	2007 / OCT / 10	11:00:08	12
NETWORK	VLOSS	2007 / OCT / 10	10:27:33	11
BACKUP	VLOSS	2007 / OCT / 10	08:05:55	10
HDD INFO	RESET TO DEFAULT	2007 / OCT / 10	08:05:26	09
EVENT LOG	POWER ON	2007 / OCT / 10	08:00:22	08
	PREV	NEXT	CLEAN	
	PLEASE CONSULT YOUR INSTALLER FOR ADVANCE SETTINGS			
	↑↓ SELECT ← BACK → NEXT ↵ ENTER			

8. REMOTE OPERATION

You can also control the DVR remotely via the supplied licensed software AP (hereafter called the “AP”), IE web browser, and Apple’s QuickTime player.

8.1 Supplied Licensed Software AP

8.1.1 Installation & Network Connection

1) Install the software

Place the supplied CD-ROM into your DVD- / CD-ROM drive. The installation process will automatically start. Follow the on-screen instructions to install the application programs.

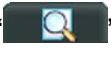
After installation, a shortcut icon  will be shown on your PC desktop.

2) Network Connection

➤ Local Connection (via LAN)

- a) Connect the DVR to your PC via a RJ-45 network line. The default DVR IP address is “192.168.1.10”, and the default user name and password are both “admin”.
- b) Set the PC’s IP address as “**192.168.1.XXX**” (1~255, except 10) in order to make the PC and DVR under the same domain.
- c) Double-click  icon on your PC desktop to enter the AP control panel. By defaults, the “Address Book” () panel will be displayed on the right side of the AP control panel.
- d) Click  (Address Book) →  (Add) button to key in the default IP address, user name, password, and port number of the DVR you intend to connect.

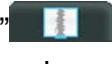
OR

Click  (Search) →  (Refresh) to search the available IP address(es) of other DVR(s) under the same domain as your PC’s IP address. The found address(es) will be listed, and can be added into the address book by clicking  (Add into address book).

For details, please see  (Search) at page 37.

- e) Double-click the IP address you just added into the address book to log in. When you’re logged in, the “Event” panel will be shown by defaults.

➤ Remote Connection (via Internet)

- a) Double-click  icon on your PC desktop to enter the AP control panel. By defaults, the “Address Book” panel will be displayed on the right side of the AP control panel.
- b) Click  (Address Book) →  (Add) button to key in the IP address, user name, password, and port number of the DVR you intend to connect.

The default DVR values are as follows:

Item	Default Value
IP address	192.168.1.10
User name	admin
Password	admin
Port	80

OR

Click " (Search) → " (Refresh) to search the available IP address(es) of other DVR(s) under the same domain as your PC's IP address. The found address(es) will be listed, and can be added into the address book by clicking " (Add into address book).

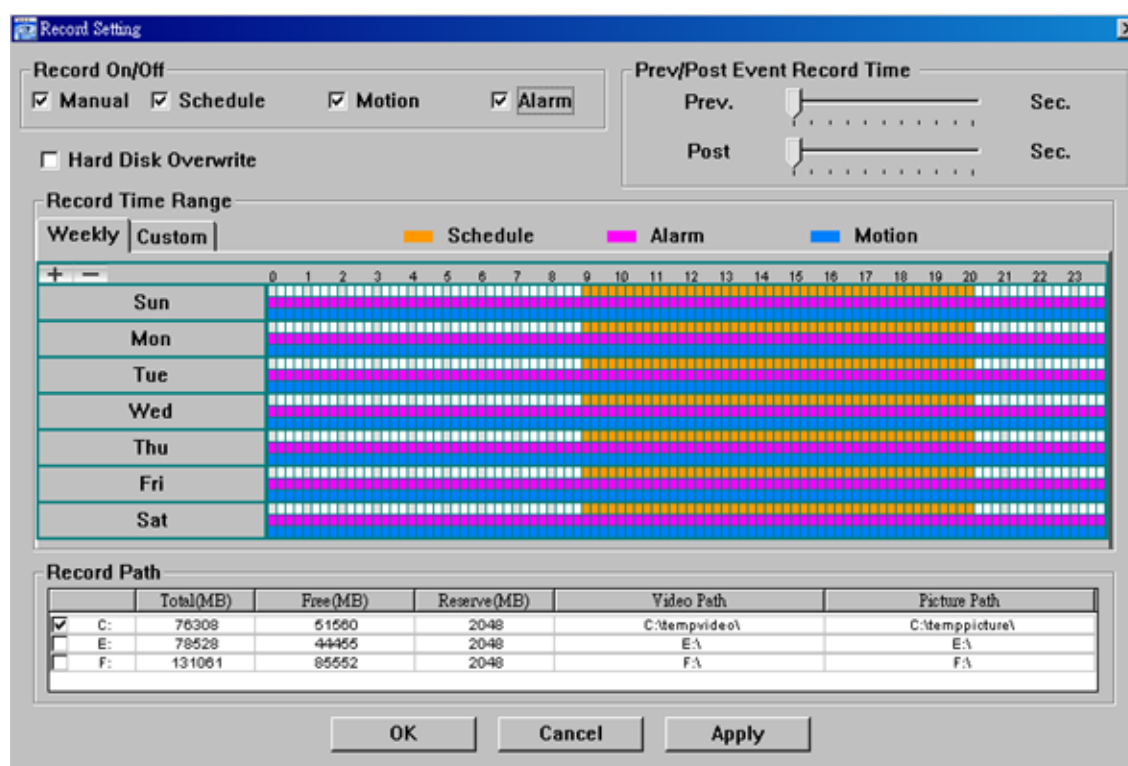
For details, please see " (Search) at page 37.

- c) Double-click the IP address you just added into the address book to log in. When you're logged in, the "Event" panel will be shown by defaults.

8.1.2 General AP Operation

Record

To record remotely at the same time when any event alarm is triggered at the DVR side, click " (Miscellaneous Control) → " (Record Setting) to go to the "Record Setting" page.



In the "Record Setting" page, you can set the following items:

- Record type
- Hard disk overwriting
- Pre- / post-alarm record time
- Record time setting
- Record path

If “Manual” is checked, click “” (Record) on the main control panel to start the manual recording immediately, and the recordings will be saved in the specified location. The red text indication “REC” will be shown at the top left corner of the image display view.

If “Motion” and / or “Alarm” are checked, the recording function will also be enabled at the remote side when any event is triggered at the DVR side, and the recordings will be saved in the specified location.

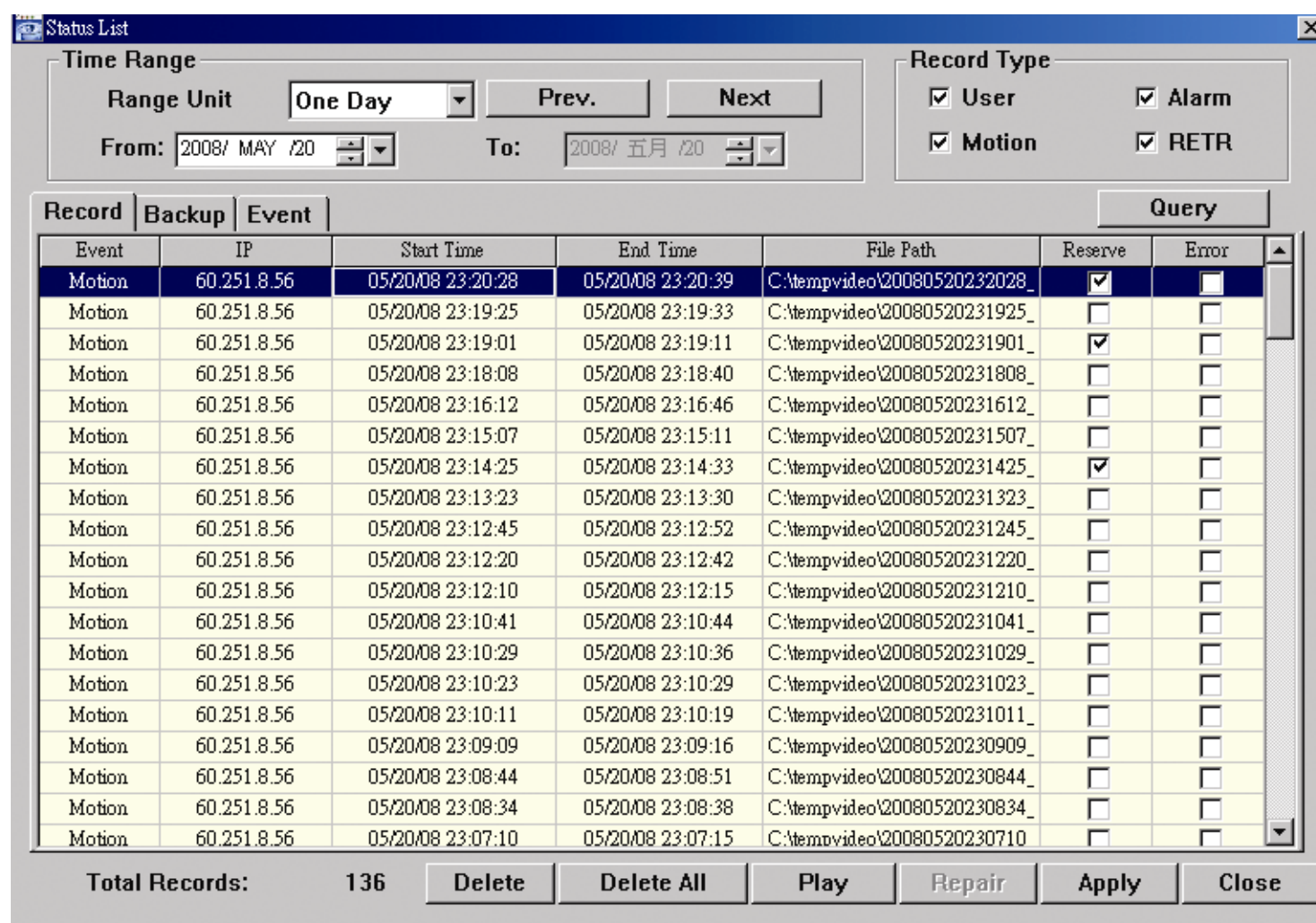
For details, please see “Record Setting” at page 40.

Playback

To play a recording, click “” (Miscellaneous Control) → “” (Status List), and select the “Record” tab or “Backup” tab. A list of all the recordings will be shown by defaults, and you can also sort out the logs you want to speed up the search time.

For details, please see “Status List” at page 54.

NOTE: You can't select a single channel for video playback. During the playback mode, you can only see the quad view.



Status List

Time Range: Range Unit: **One Day** Prev. Next

From: 2008/ MAY /20 To: 2008/ 五月 /20

Record Type: ☒ User ☒ Alarm ☒ Motion ☒ RETR

Record Backup Event Query

Event	IP	Start Time	End Time	File Path	Reserve	Error
Motion	60.251.8.56	05/20/08 23:20:28	05/20/08 23:20:39	C:\tempvideo\20080520232028_	☒	☐
Motion	60.251.8.56	05/20/08 23:19:25	05/20/08 23:19:33	C:\tempvideo\20080520231925_	☐	☐
Motion	60.251.8.56	05/20/08 23:19:01	05/20/08 23:19:11	C:\tempvideo\20080520231901_	☒	☐
Motion	60.251.8.56	05/20/08 23:18:08	05/20/08 23:18:40	C:\tempvideo\20080520231808_	☐	☐
Motion	60.251.8.56	05/20/08 23:16:12	05/20/08 23:16:46	C:\tempvideo\20080520231612_	☐	☐
Motion	60.251.8.56	05/20/08 23:15:07	05/20/08 23:15:11	C:\tempvideo\20080520231507_	☐	☐
Motion	60.251.8.56	05/20/08 23:14:25	05/20/08 23:14:33	C:\tempvideo\20080520231425_	☒	☐
Motion	60.251.8.56	05/20/08 23:13:23	05/20/08 23:13:30	C:\tempvideo\20080520231323_	☐	☐
Motion	60.251.8.56	05/20/08 23:12:45	05/20/08 23:12:52	C:\tempvideo\20080520231245_	☐	☐
Motion	60.251.8.56	05/20/08 23:12:20	05/20/08 23:12:42	C:\tempvideo\20080520231220_	☐	☐
Motion	60.251.8.56	05/20/08 23:12:10	05/20/08 23:12:15	C:\tempvideo\20080520231210_	☐	☐
Motion	60.251.8.56	05/20/08 23:10:41	05/20/08 23:10:44	C:\tempvideo\20080520231041_	☐	☐
Motion	60.251.8.56	05/20/08 23:10:29	05/20/08 23:10:36	C:\tempvideo\20080520231029_	☐	☐
Motion	60.251.8.56	05/20/08 23:10:23	05/20/08 23:10:29	C:\tempvideo\20080520231023_	☐	☐
Motion	60.251.8.56	05/20/08 23:10:11	05/20/08 23:10:19	C:\tempvideo\20080520231011_	☐	☐
Motion	60.251.8.56	05/20/08 23:09:09	05/20/08 23:09:16	C:\tempvideo\20080520230909_	☐	☐
Motion	60.251.8.56	05/20/08 23:08:44	05/20/08 23:08:51	C:\tempvideo\20080520230844_	☐	☐
Motion	60.251.8.56	05/20/08 23:08:34	05/20/08 23:08:38	C:\tempvideo\20080520230834_	☐	☐
Motion	60.251.8.56	05/20/08 23:07:10	05/20/08 23:07:15	C:\tempvideo\20080520230710_	☐	☐

Total Records: 136 Delete Delete All Play Repair Apply Close

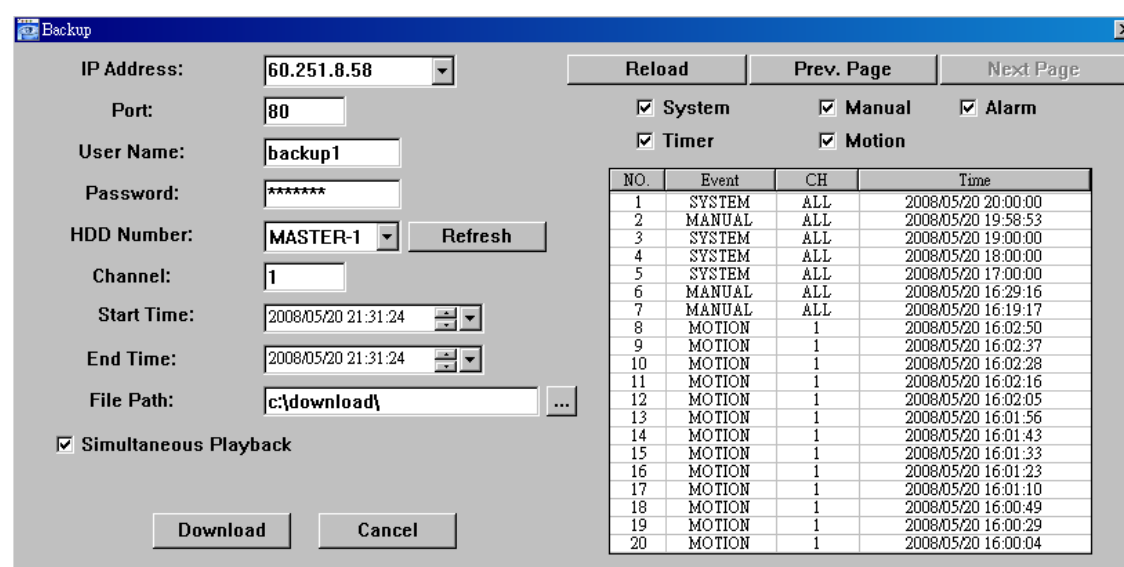
To immediately play a recording, select a log from the list, and click “Play” button, or double-click the selected log. Then, the playback control panel will be shown at the bottom of the main control panel similar to the following.



For the playback control panel details, please see “Playback Screen” at page 54.

Network Backup

Click “” (Miscellaneous Control) → “” (Backup) to go into the “Download” page as follows, and you can select a specific time range or event to make a video backup remotely. For details, please see “Backup” at page 39.



8.1.3 AP Control Panel

After setting up the network information, login user name and password, double-click “” on the PC desktop to open and log into the AP control panel. You will see a screen similar to the following with 7 major sections:



NO.	Button	Function	Description
①	N/A	Image Display	The place where the images are displayed. For details, please see “8.1.4 AP Functions” at page 36.
②		Address Book	Click to show the predefined IP address(es). You can add, remove or search the IP address to log in the DVR remotely. Two sub-functions are available for this button: Address Book and Search. For details, please see “Address Book ” at page 36.
③		Miscellaneous Control	Click to show the main operation functions: audio volume control, color setting, backup, DVR setting, upgrade, and find event logs. For details, please see “Miscellaneous Control  ” at page 38.
④	 / 	Record	Click to start / stop the manual recording.
⑤		Snapshot	Click to take a snapshot of the current view. The snapshot will be saved in the path you specified in “Record Setting”. Please refer to “Record Setting” at page 40 for details.
⑥		Information	Click to show the current network connection details. For details, please see “Information  ” at page 55.
⑦		DVR Control	Click to go to the DVR control panel to operate the DVR remotely. For details, please see “DVR Control  ” at page 55.

8.1.4 AP Functions

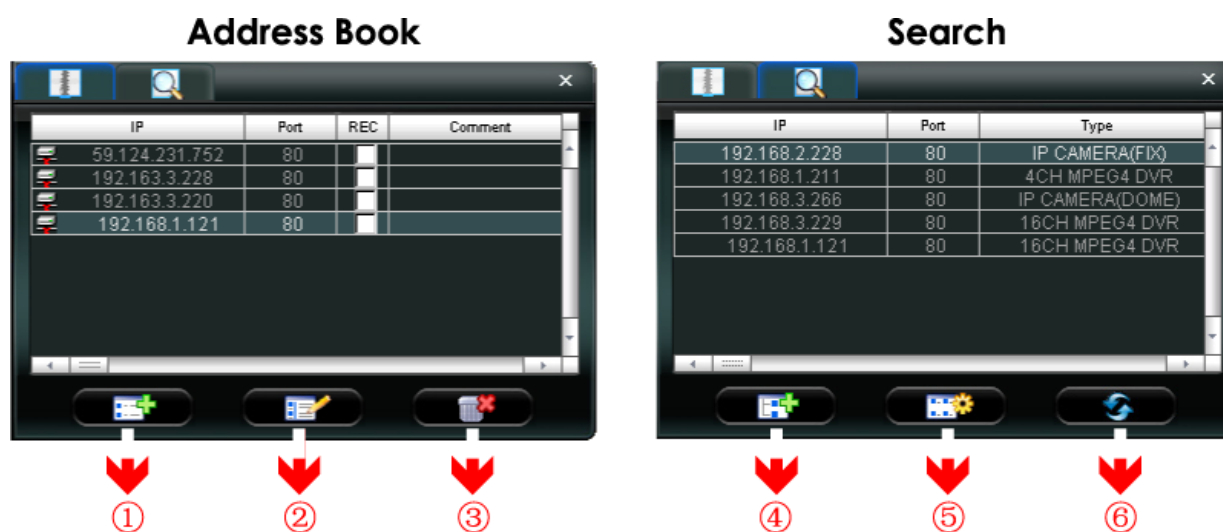
Image Display



NO.	Button	Function	Description
①		Image View Tab	Click the tab to select the view you want..
②		Expand All Views	To see all views in the image display area if you have many views and do not want to switch each view by clicking the blue tab described above, click to choose a proper split view (1-cut / 4-cut / 9-cut / 16-cut) which best suits your needs. The selected view will be indicated with a red frame around it.
③		Full Screen	Click to view the images in the full screen mode. To exit the full screen mode, press “Esc” key on the keyboard.
④		Close	Click to close the current image display view. If the last image display view is closed, you will be logged out automatically.
⑤		Close All Views	Click to close all the image display view and disconnect from the connected device(s).

Address Book

This view is displayed when the AP is activated for you to log in / out the DVR from the current address list, or search the available IP address as follows:



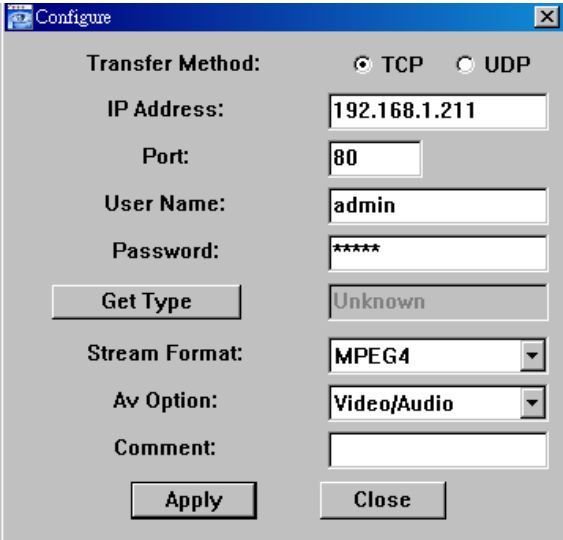
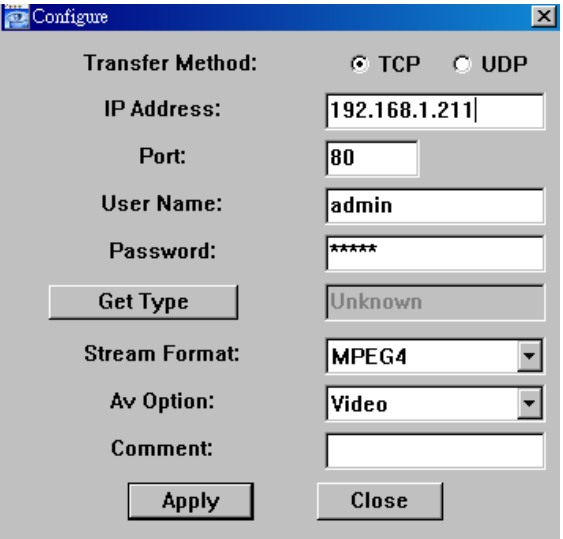
➤ (Address Book)

Click to view the pre-defined DVR access details.

To log in, choose one IP address from the address list, and click the address twice; to log out, click the connected IP address twice.

Tip: You can also click " " or " " in the image display section to log out (see "Image Display" at page 36).

You can also create new IP address information, or modify or remove the current IP address information.

NO.	Button	Function	Description
1		Add	Click to directly add one IP address for login. Key in the DVR access information needed, and click "Apply" and "Close". 
2		Edit	Select one current IP address from the address list, and click this button to modify the DVR access information as needed. 
3		Remove	Select one IP address from the address list, and click this button to delete it.

REC

When the AP is connected to more than 1 device, and not all devices are necessary to enable the manual record function, check "REC" for the connected device(s), and its manual record function will be on.

Note: When the AP is connected to more than 1 device, click " " will record the live views for all the connected devices. To enable the manual record function for the specific device(s), please set from this view.

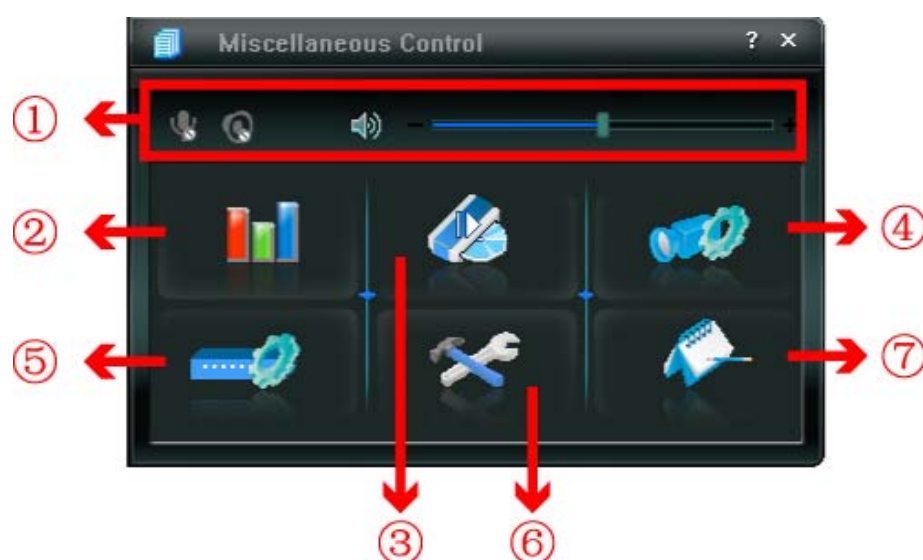


Click to search and view the available IP address(es) for the DVR connection. You can choose one address to add into the address book, edit the details, or update the address list.

NO.	Button	Function	Description
4		Add into address book	Select from the available IP address list, and click this button to add the selected address to the address book.
5		Setting	Select from the available IP address list, and click this button to edit the setting.
6		Refresh	Click to update the available IP address list.

Miscellaneous Control

Click " (Miscellaneous Control)" on the AP control panel, and 7 functions are available as follows:



NO.	Button	Function	Description
①		Audio Volume Control	To adjust the volume of the audio channel, press and drag the volume slider.
②		Color Setting	Click this button to adjust the brightness / contrast / hue / saturation for a single channel or the whole channels. For details, please see "Color Setting" at page 38.
③		Backup	To make a video backup remotely, click this button, and you will go to the download setting page. For details, please see "Network Backup" at page 34.
④		Record Setting	Click to go to the detailed record setting. Please refer to "Record Setting" at page 40 for details.
⑤		Server Setting	Click to go into the detailed DVR setting. Please refer to "Server Setting" at page 40 for details.
⑥		Tools	Click to update the firmware version, multilingual OSD and boot display of your DVR remotely. Please refer to "Tools" at page 51 for details.
⑦		Status List	Click to view all event and recording logs, search the desired log(s) by date, or playback the recording of the selected log. For details, please refer to "Status List" at page 54 .

➤ Color Setting

Click "" to go into the "Color Setting" page, and you can adjust the brightness / contrast / hue / saturation for a single channel or all channels.



Choose the desired channel from the drop-down list, and click and drag the slider to make adjustment. Click “” to apply the change to the selected channel, or “” to apply to all channels.

To return to the default values, click “” (Default), and click “” to apply the change to the selected channel, or “” to apply to all channels.

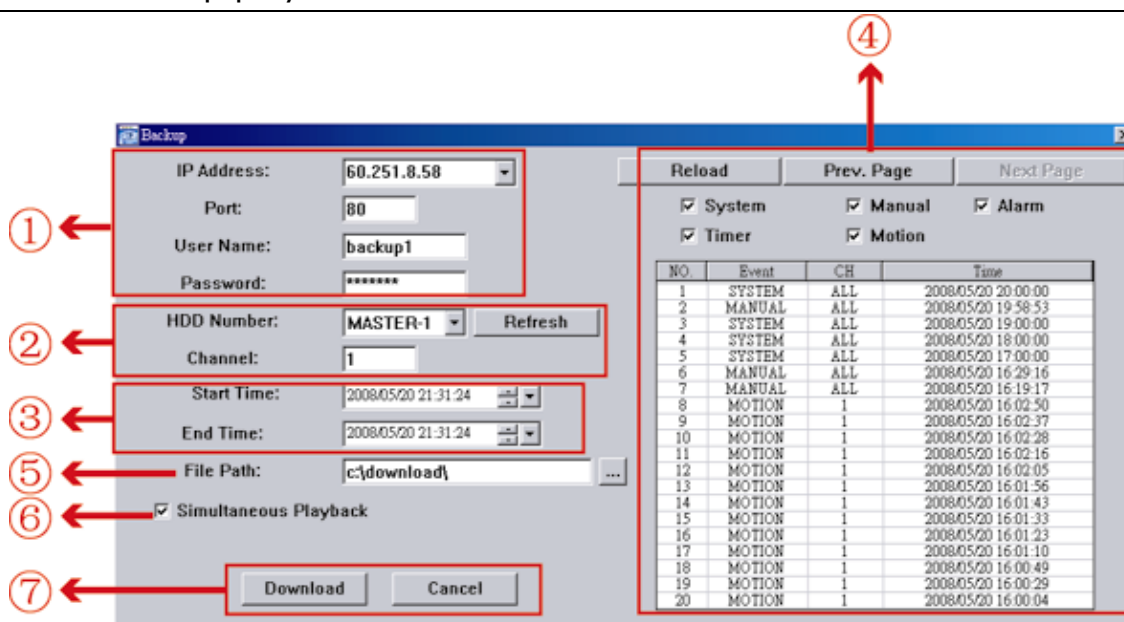
Note: You need to be a supervisor to operate this function. For details, please see “Account” at page 43.

➤ Backup

Click “” (Backup) to go into the “Download” page, and you can select a specific time range or event to make a video backup remotely.

Note: You need to be a supervisor to operate this function. For details, please see “Account” at page 43.

Note: Before enabling the network backup function, make sure the DVR is not in the playback mode, or the DVR will stop playback.



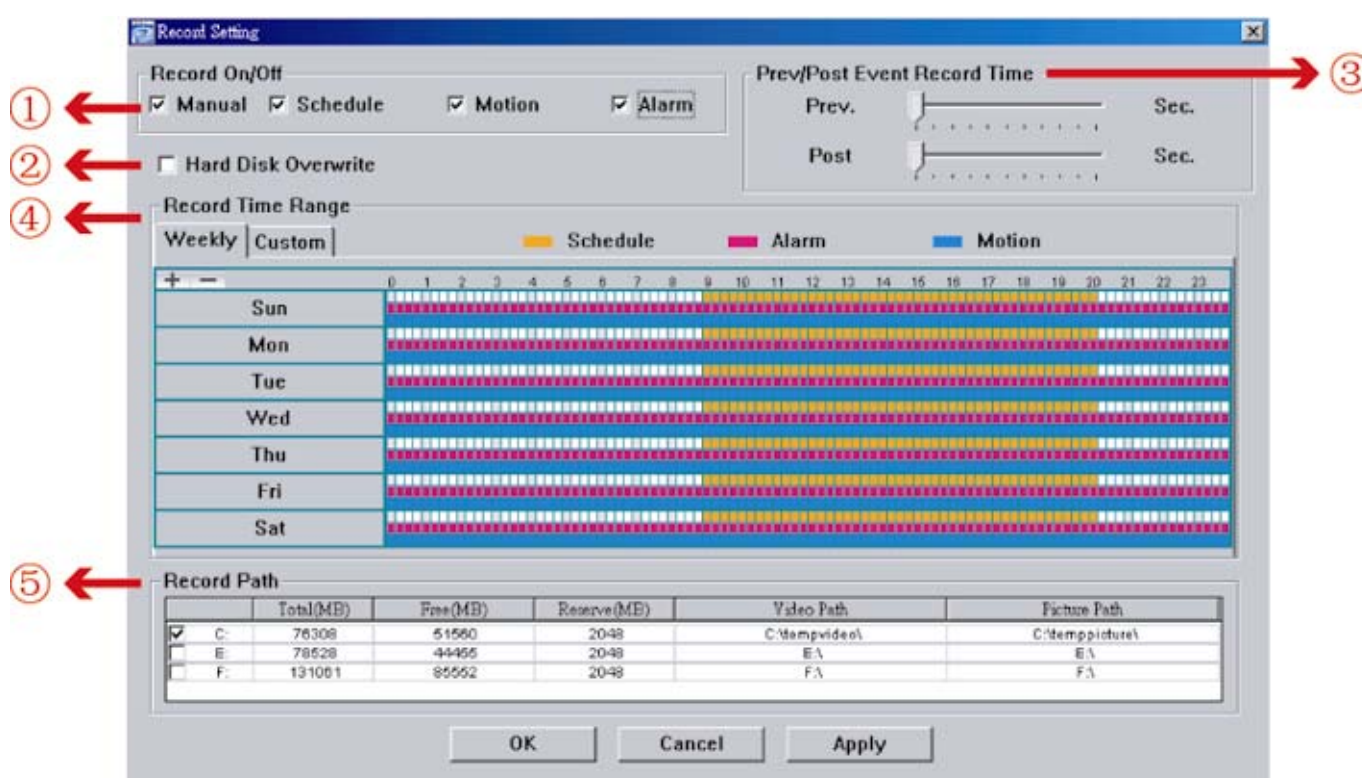
NO.	Function	Description
①	IP Address / Port / User Name / Password	Check if the network connection information of the DVR within which contains the video data you need is correct.
②	HDD Number / Channel	Specify the hard disk (HDD Number) and channel number (Channel) within which have the video data you need.
③	Download by Time	Specify the time range within which has the video data you want in the “Start Time” and “End Time” columns.
④	Download by Event	Select an event log from the event list. This list shows all logs in the specified DVR from the latest to the earliest. - To quickly find the events you need, check or uncheck the event type “System” / “Manual” / “Alarm” / “Motion”, and select the log you want. - To view the earlier or later logs that are not shown in the current page, click “Prev. Page” or “Next Page”. - To refresh the event list, click “Reload”.

NO.	Function	Description
⑤	File Path	Assign the location where the backup files are saved.
⑥	Simultaneous Playback	To view the backup images simultaneously when the download process is in progress, select the checkbox "Simultaneous Playback". You will see the backup images while the images are being downloaded to the PC or notebook. To simply backup images without previewing, deselect the checkbox "Simultaneous Playback". You will only see a message box indicating the total time needed, the current status and the saving location.
⑦	Download / Cancel	Click "Download" to start or "Cancel" to discard the video backup.

➤ Record Setting

Press " " to go into the "Record Setting" page, and you can set the following items:

- Record type
- Hard disk overwriting
- Pre- / post-alarm record time
- Record time setting
- Record path



Record type

In this section, you can select which type of the recording will be enabled. There are 4 options: Manual / Schedule / Motion / Alarm.

Hard disk overwriting

To overwrite the recorded data from the earliest to the latest when the hard disk is full, check "Hard Disk Overwrite" checkbox.

Pre- / post-alarm record time

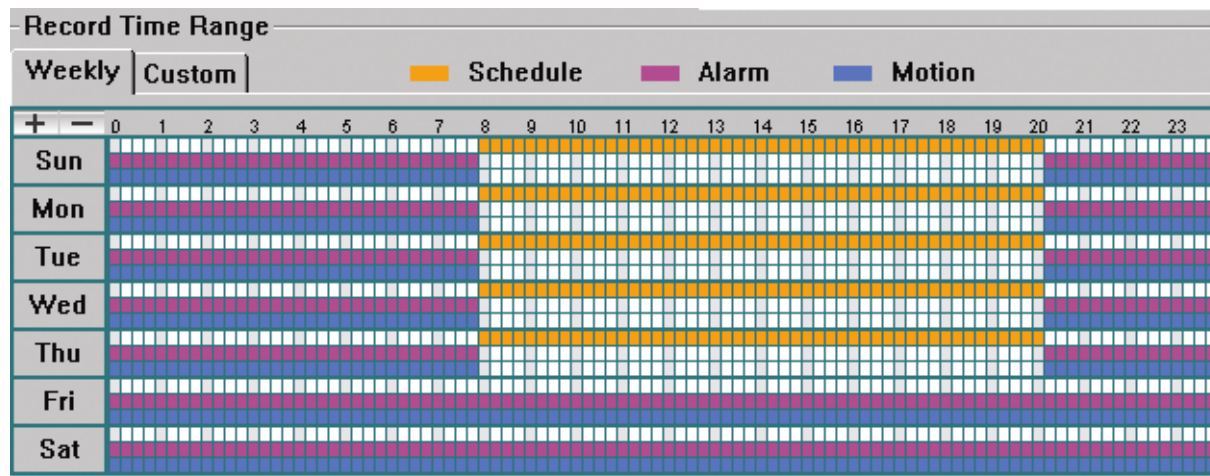
Select the pre-/post-alarm recording time from 0 sec. to 60 sec.

Record time setting

There are two ways to set the record time: Weekly and Custom.

◆ Weekly

Click “Weekly” tab, and you will see a weekly time table indicating the week days (Mon ~ Sun) and hours (0 ~ 24), similar to the figure below:



X axis: 0 ~ 24 hours. Each time interval within a square is 15 minutes.

Y axis: Monday ~ Sunday.

Operation: You can set the record schedule for 3 record types as needed in this time table:

- 1st timeline -- Schedule record, indicated in yellow,
- 2nd timeline -- Alarm record, indicated in magenta, and
- 3rd timeline -- Motion record, indicated in cyan.

Click and hold the start time point, and drag to the end time point to set the record time range.

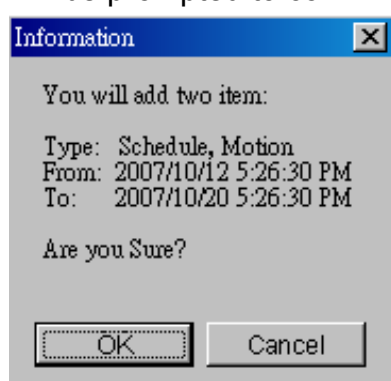
◆ Custom

Click “Custom” tab, and you can set a more specific record time range for the 3 record types: Schedule, Motion, and Alarm.

Type	Start Time	End Time

How to add a new time setting:

- i. Check the record type you want to schedule the recording.
- ii. Set the start time (From) and end time (To).
- iii. Click “Add” to add the time range you just set into the schedule table. Before adding the time range, you will be prompted to confirm as follow:



- iv. Check if the information shown is correct. Click “OK” if the information is correct. Click “Cancel” if the information is wrong.

How to modify / delete a current time setting:

Record Time Range

Weekly **Custom**

☒ **Schedule** ☐ **Motion** ☐ **Alarm**

From:
 2007/ Oct. /12 17:26:30

To:
 2007/ Oct. /26 17:26:30

Add	Delete	Update
Type	Start Time	End Time
Schedule	2007/10/12 5:26:30 PM	2007/10/20 5:26:30 PM
Alarm	2007/10/12 5:26:30 PM	2007/10/20 5:26:30 PM

1. Select the schedule setting you want to modify from the schedule table. The setting will be displayed in the left setting panel.
2. Modify the setting in the left setting panel, and click "Update".
3. You will be prompted to confirm the setting. Click "OK" if the information is correct. Click "Cancel" if the information is wrong.
4. To delete one schedule setting, select it, and click "Delete".

Record Path

Select and view the location for saving the recorded video and snapshot pictures.

To change the saving path for the recorded video clips or snapshots, check the drive you want, click the cell of "Video Path" or "Picture Path" twice, and select a new path for saving the video clips or snapshots.

➤ Server Setting

Click  to view, set or modify the DVR setting. All the changes you make here will be applied to the connected DVR.

Note: You need to be a supervisor to operate this function. For details, please see "Account" at page 43.

General

In "General" and its sub-menus, "Log", "Account" and "OnLineUser", you can view and set some common settings, such as the turbo step, make account setting, check the information for all current on-line users, and search the server logs.

Server Setting : 60.251.8.56

General

Firmware Version: 1160-1012-1021-1014-M3-6C1B

MAC Address: 00:0E:33:44:55:66

Title: office

Turbo Step: 2

OK
Cancel
Apply

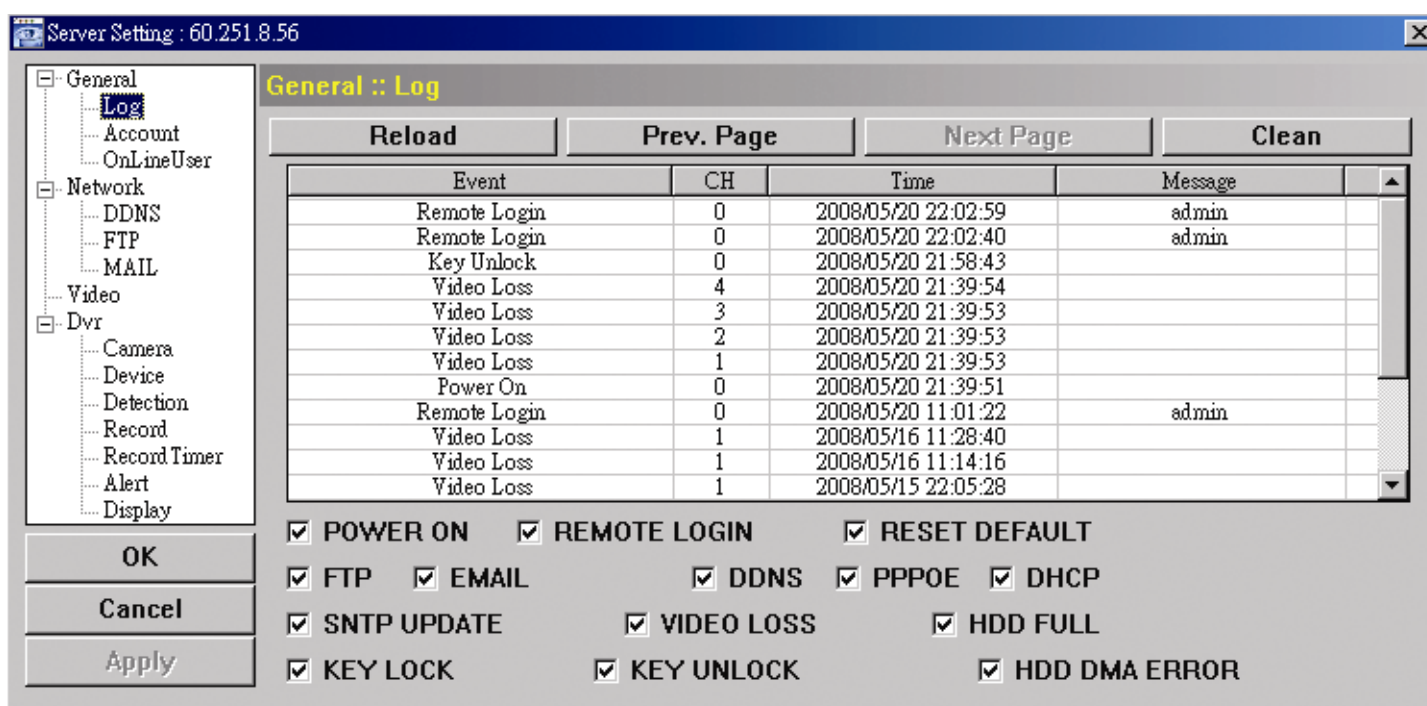
In “General”, you will see the following items:

Item	Description
Firmware Version	Display the current firmware version of your DVR.
MAC Address	Display the MAC address.
Turbo Step	Speed up the menu selection under the AP from 1 to 10. Ex: If the value of the turbo step is set to 5, one mouse-click will function as 5 mouse-clicks when you click one of the buttons  in the DVR control panel.
Title	Provide a title for this DVR. Only 15 characters are allowed.

◆ Logs

Click “” (Miscellaneous Control) → “” (Server Setting) → “General” → “Log” to go into the “Log” page. In the “Log” page, you can see all the logs for the network camera, such as “Power On”, “Reset Default”, “Net Login” and “SNTP Update” ... etc.

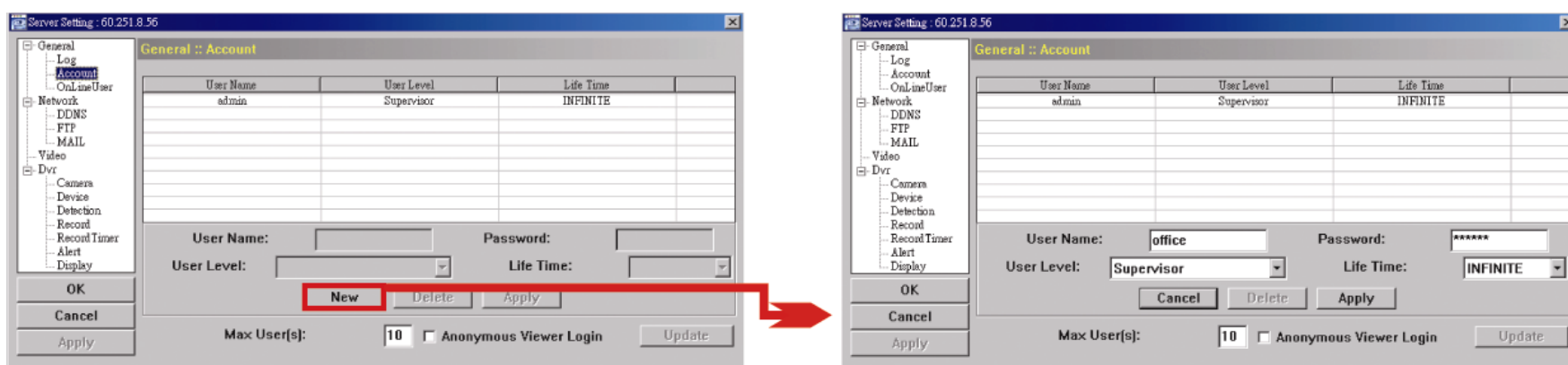
- To refresh the logs, click “Reload”.
- To view the earlier or later logs that are not shown in the current page, click “Prev. Page” or “Next Page”.
- To clear all the logs, click “Clean”.



◆ Account

In “General” → “Account”, you can create a new account for login, or delete or modify the existing account setting.

- To add an account, click “New”, and fill in the following columns. Then, click “Apply” to save your setting and create a new account.



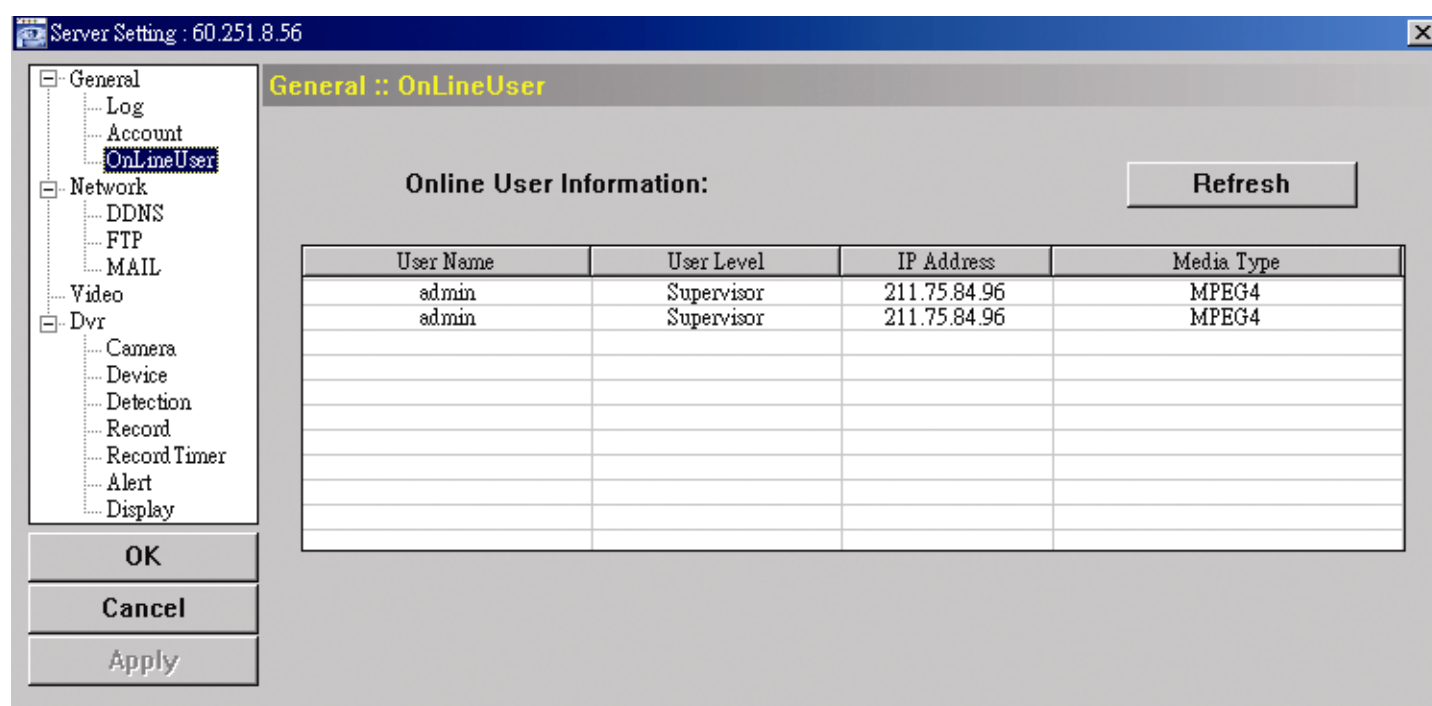
Column	Description
User Name	Set a user name that will be used for remote login. The user name allows up to 10 characters.

Column	Description
Password	Set the password that will be used for remote login. The password allows up to 8 characters.
User Level	Set the security level of an account to give the permission to control different AP functions. There are 4 user levels: Supervisor, Power User, Normal User and Guest.
Life Time	Select how long this account is allowed to stay online (1 MIN / 5 MIN / 10 MIN / 1 HOUR / 1 DAY / INFINITE)

- To modify an existing account, select the account you want, change the setting, and click “Apply”.
- To remove an existing account, select the account you want, and click “Delete”.
- To save your changes, click “Apply”.
- To define the maximum account creation number, key in the number in “Max User(s)” column from 1 to 20, and click “Update”.

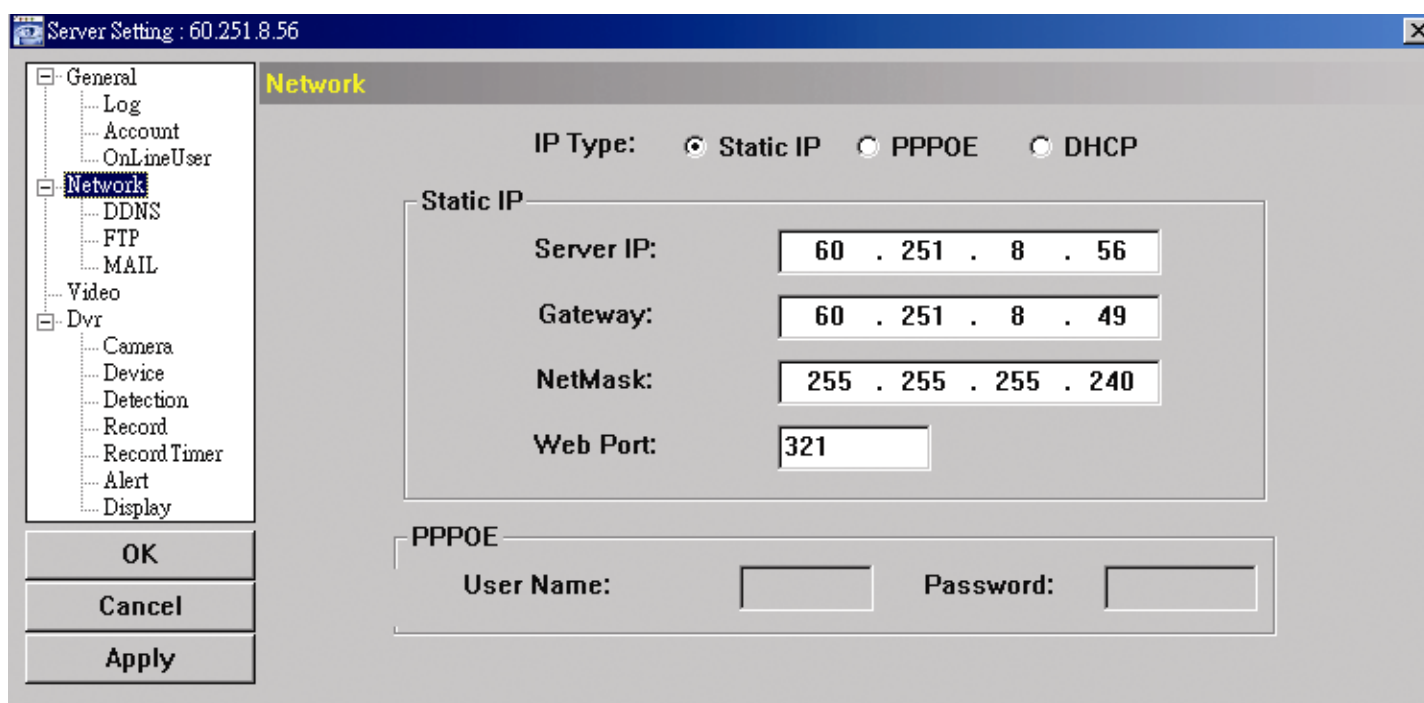
◆ OnLineUser

In “General” → “OnLineUser”, you can check all the online user information. To update the user information, click “Refresh”.



Network

In “Network” and its sub-menu, “DDNS”, you can set the DVR network configuration. The network configuration allows the DVR to connect to the LAN or Internet.



Select the network type you will be using for DVR connection. There are 3 network connection types: Static IP, PPPOE and DHCP.

Note: PPPOE and DHCP network connection types are required to apply the DDNS service to get a “Hostname” to correspond to a dynamic IP address. Please refer to “DDNS” at page 45 for details.

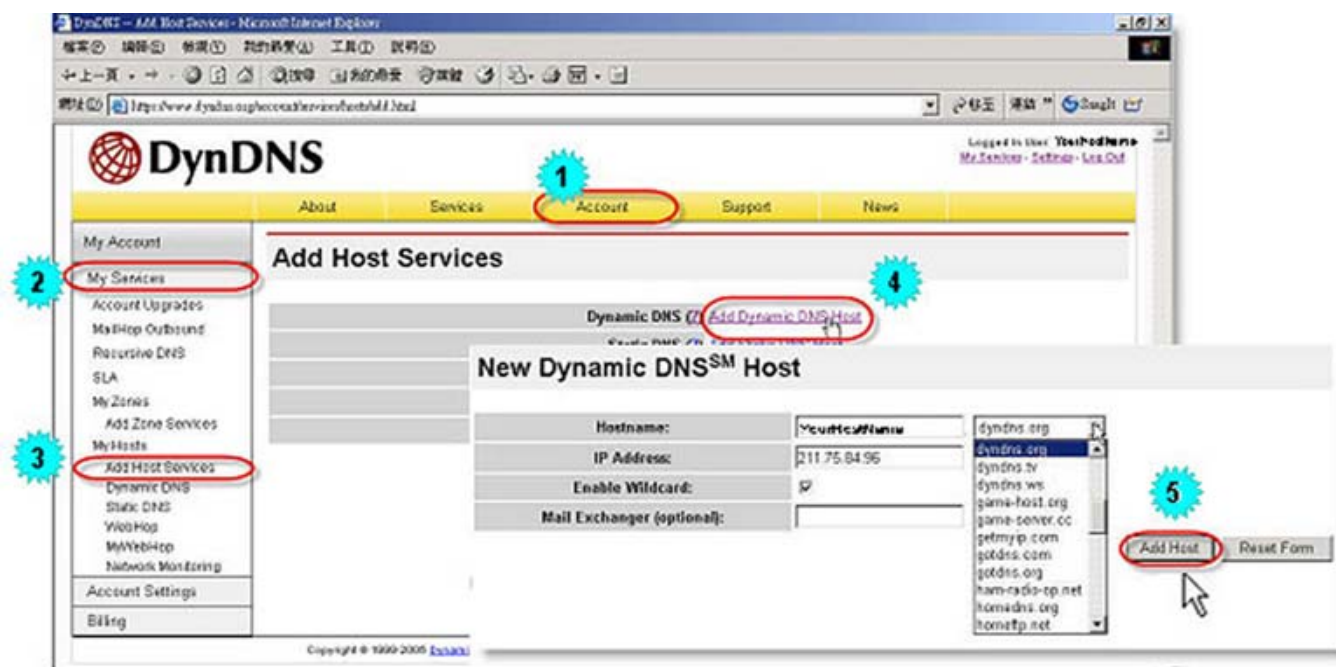
Function	Description
Web Port	Typically, the default TCP port used by HTTP is 80. However, in some cases, it is better to change this port number for added flexibility or security. The valid web port number ranges from 1 to 9999.
Static IP	Computers are communicated and recognized by their own unique IP addresses over the Internet. “Static IP” provided by your ISP (Internet Service Provider) means the IP address of the computer is fixed. Key in the server IP address, gateway and network information provided by your ISP provider to configure a static IP network connection.
PPPOE	PPPOE stands for Point-to-Point Protocol over Ethernet. Users can easily have the Internet service as long as they're ready for the following things: 1) Insert an Ethernet card into the PC. 2) Obtain the ADSL service via any ISP. 3) Obtain and install the PPPOE software CD. When everything is ready, choose the “PPPOE” IP type, and key in the user name and password provided by your ISP. Then, select “Network” → “DDNS” to set DDNS settings. For detailed DDNS settings, please refer to “DDNS” at page 45.
DHCP	This DHCP function needs to be supported by a router or cable modem network with the DHCP service. Choose the “DHCP” IP type, and select “Network” → “DDNS” to set DDNS settings. For detailed DDNS settings, please refer to “DDNS” at page 45.

◆ DDNS

You need to apply a DDNS account before setting PPPOE or DHCP connection. DDNS is a service for transforming the dynamic IP corresponding to a specific “host name”. Go to a website which provide free DDNS services and apply a host name.

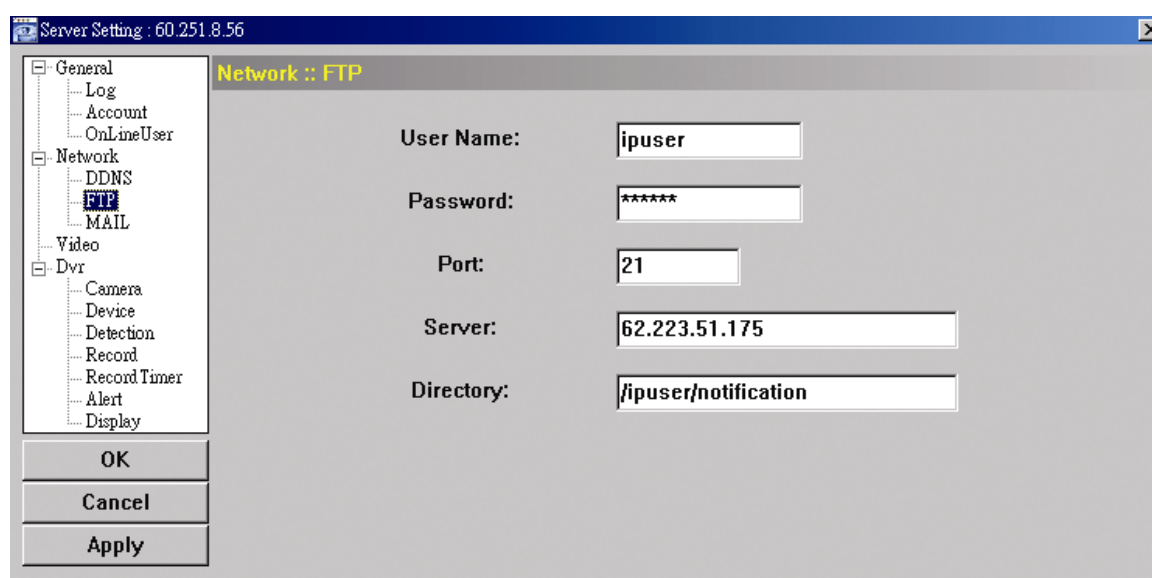
DDNS Apply:

- Go to a website which provide the free DDNS service, for example, <http://www.dyndns.org>.
- Create an account in DynDNS.
- After creating one account, users will receive a confirmation E-mail within a few minutes. To complete the registration, please follow the instructions received.
Users must complete these steps within 48 hours to complete the registration. If the confirmation E-mail was not received within an hour, request “password reset” (<http://www.dyndns.org/account/resetpass/>).
- Use the DDNS username and password to log into the DynDNS.
- Create a host name:
After login, click “Account” → “My Service” → “Add Host Services” → “Add Dynamic DNS Host”. Enter and choose a host name, and click “Add Host”. Then, your DDNS host name is created.



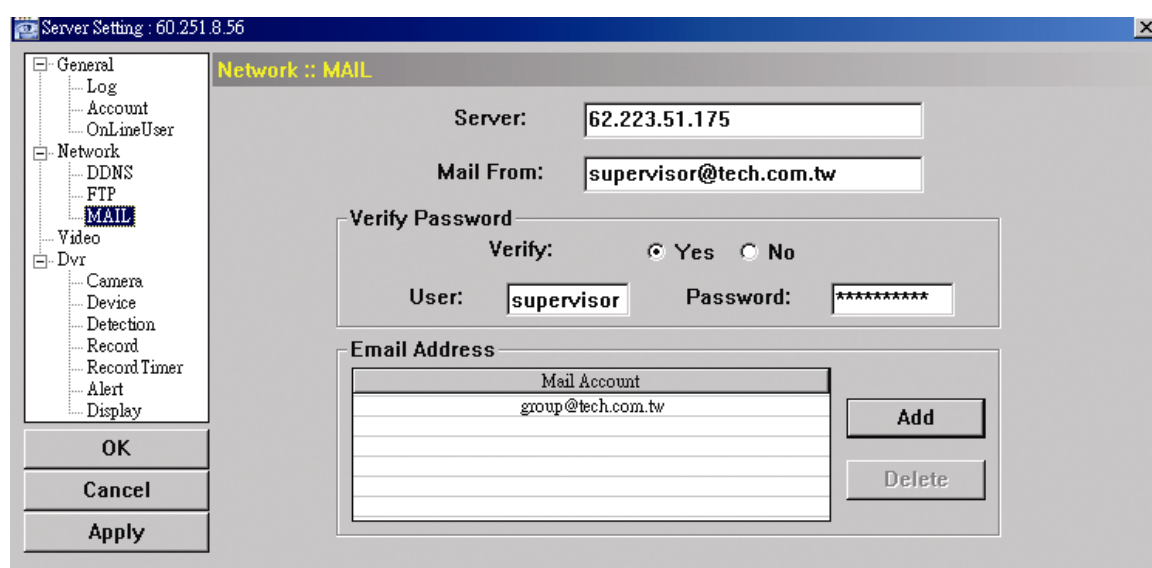
◆ FTP

Click “” (Miscellaneous Control) → “” (Server Setting) → “Network” → “FTP” to go into the “FTP” page. Enter the detailed FTP information and press “Apply” to confirm. The information you set here will be applied when the function of FTP notification is enabled in the “Alert” menu.



◆ MAIL

Click “” (Miscellaneous Control) → “” (Server Setting) → “Network” → “MAIL” to go into the “MAIL” page. Enter the detailed E-mail information and press “Apply” to confirm. The information you set here will be applied when the function of E-mail notification is enabled in the “Alert” menu.

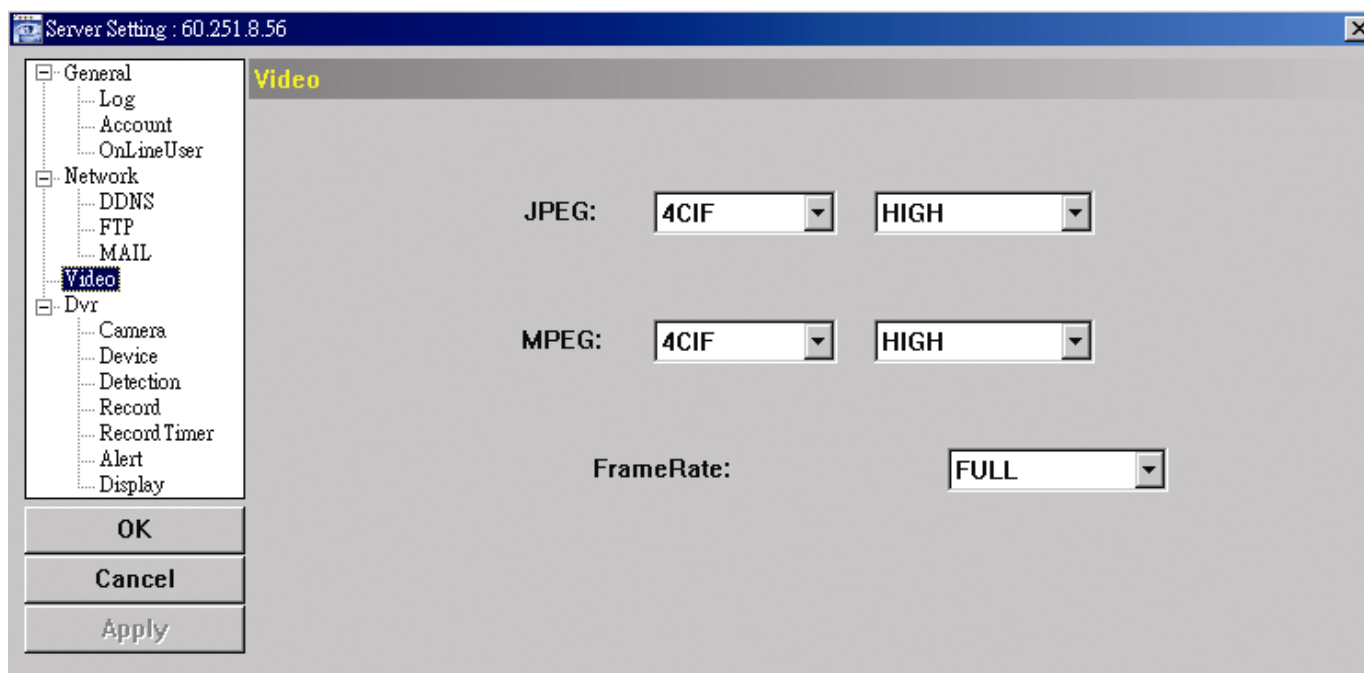


Function	Description
Server	Enter the SMTP server address provided from your e-mail system supplier.
Mail From	Enter the entire mail address to ensure E-mails will not be blocked by SMTP.
Verify Password	Some mail servers are required to verify the password. Please enter the "user name" and "password".
Email Address	Add the E-mail address(s) of the assigned recipient(s).

Note: Users can assign up to 4 mail accounts for E-mail notification.

Video

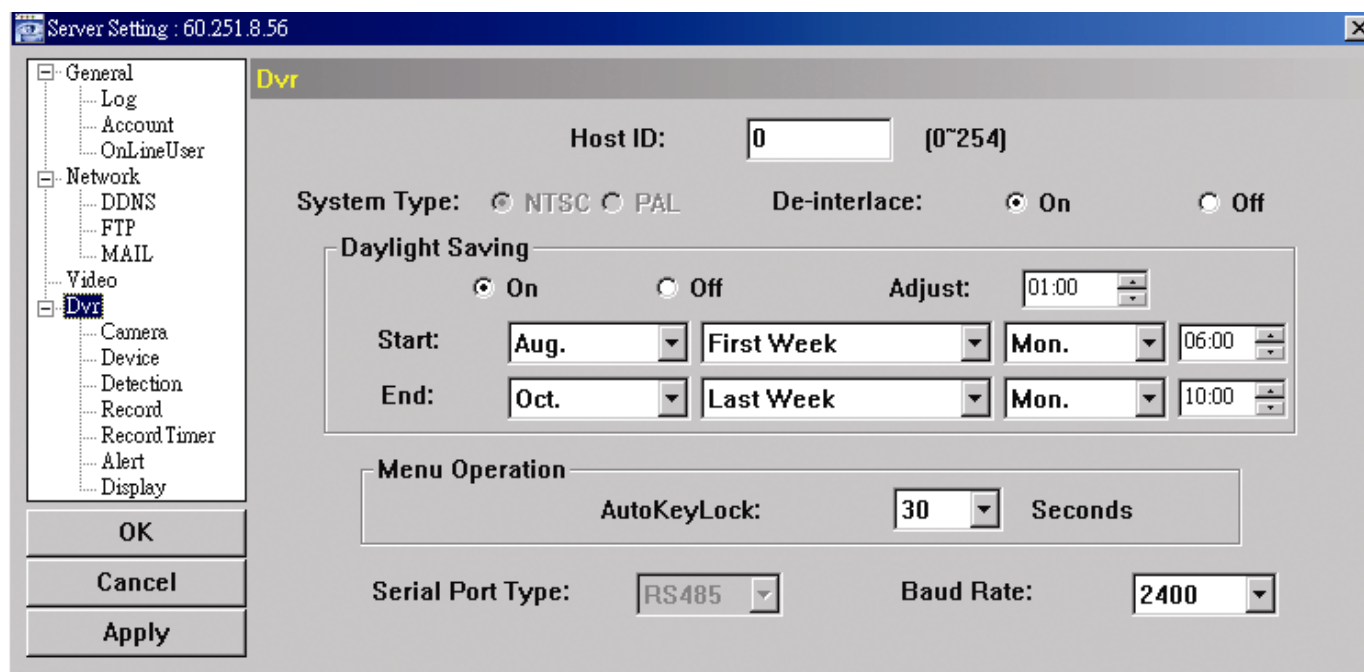
In "Video", you can set the video web transmission size and quality, and the frame rate for transmitting.



Function	Description
JPEG	Choose the image size (4CIF / CIF) and picture quality (BEST / HIGH / NORMAL / BASIC) when the web transmission format is JPEG.
MPEG	Choose the image size (4CIF / CIF) and picture quality (BEST / HIGH / NORMAL / BASIC) when the web transmission format is MPEG.
FrameRate	Choose the frame rate for transmitting (FULL / HALF / ONE THIRD / QUARTER / FIFTH).

Dvr

In "Dvr" and its sub-menus, "Camera", "Detection", "Record", "Record Timer", "Alert" and "Display," you can set DVR general functions, such as the host ID, the record schedule, alerts, motion detection, and text or icon display, etc.

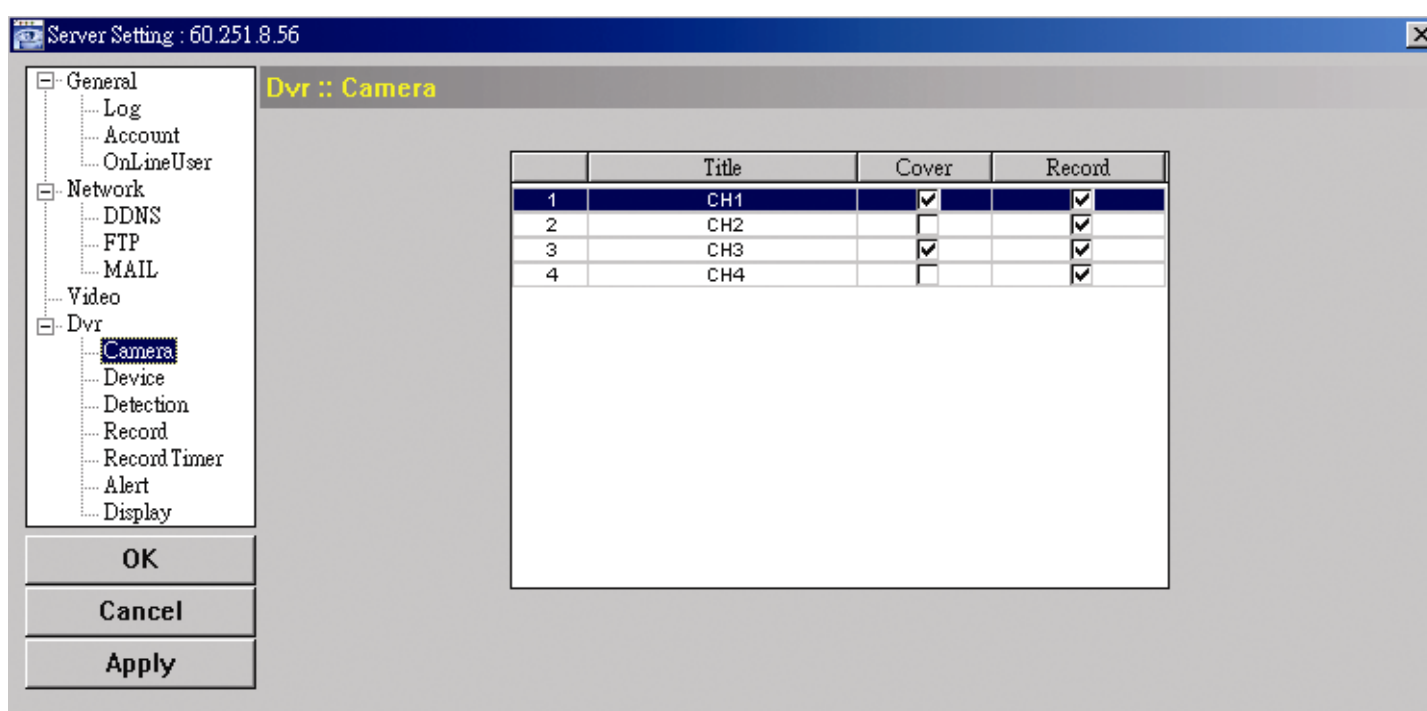


In “Dvr”, you can see the following items:

Function	Description
System Type	Display the current system type (NTSC / PAL). It's automatically detected.
De-interlace	Select to enable or disable the de-interlace function (ON / OFF).
Daylight Saving	Specify whether to use daylight saving time (ON / OFF). If this function is enabled, set the time period (START / END), and adjust the daylight saving time in hours (ADJUST).
Menu Operation	Select the time-out in seconds after which the DVR keys will be automatically locked when no one is operating the DVR for a period of time (0 / 30 / 60 / 120). The default value is 30.
Serial Port Type	Display the serial type (RS485) used by this DVR. It's automatically detected.
Baud Rate	Set the baud rate of the DVR (2400 / 9600 / 19200 / 38400 / 57600).

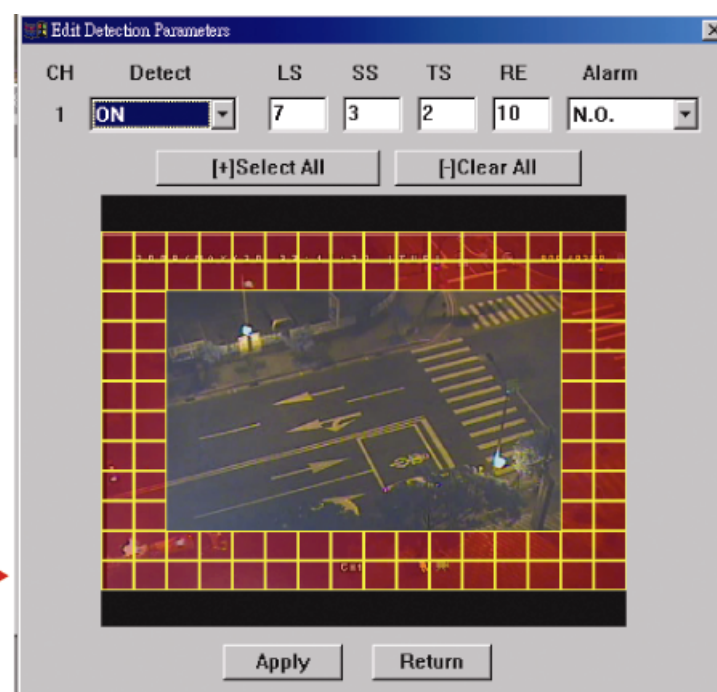
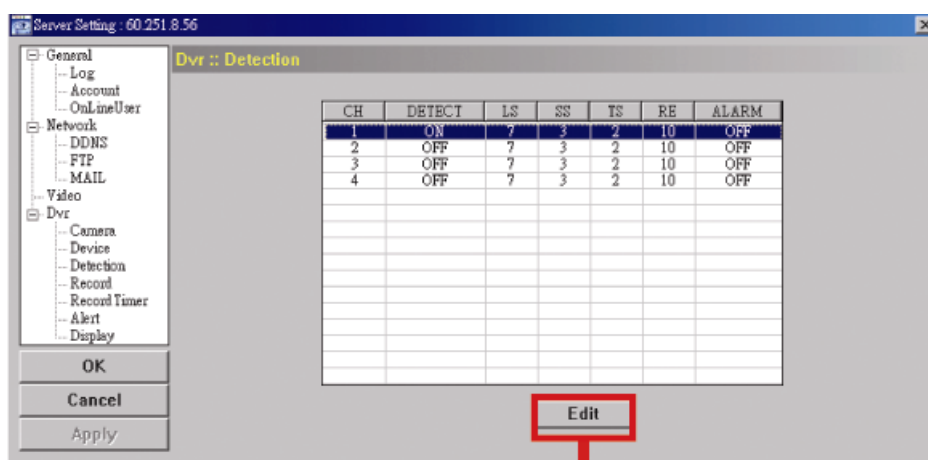
◆ Camera

In “Dvr” → “Camera”, you can specify a channel to enable the recording function by selecting the check box “Record”, choose to activate the “Covert Recording” function by selecting the check box “Cover”, and rename the channel title which will be displayed in the live view screen by double-clicking the channel title.



◆ Detection

Select the desired channel, and click “Edit” to enter the motion detection sensitivity and area-setting page.

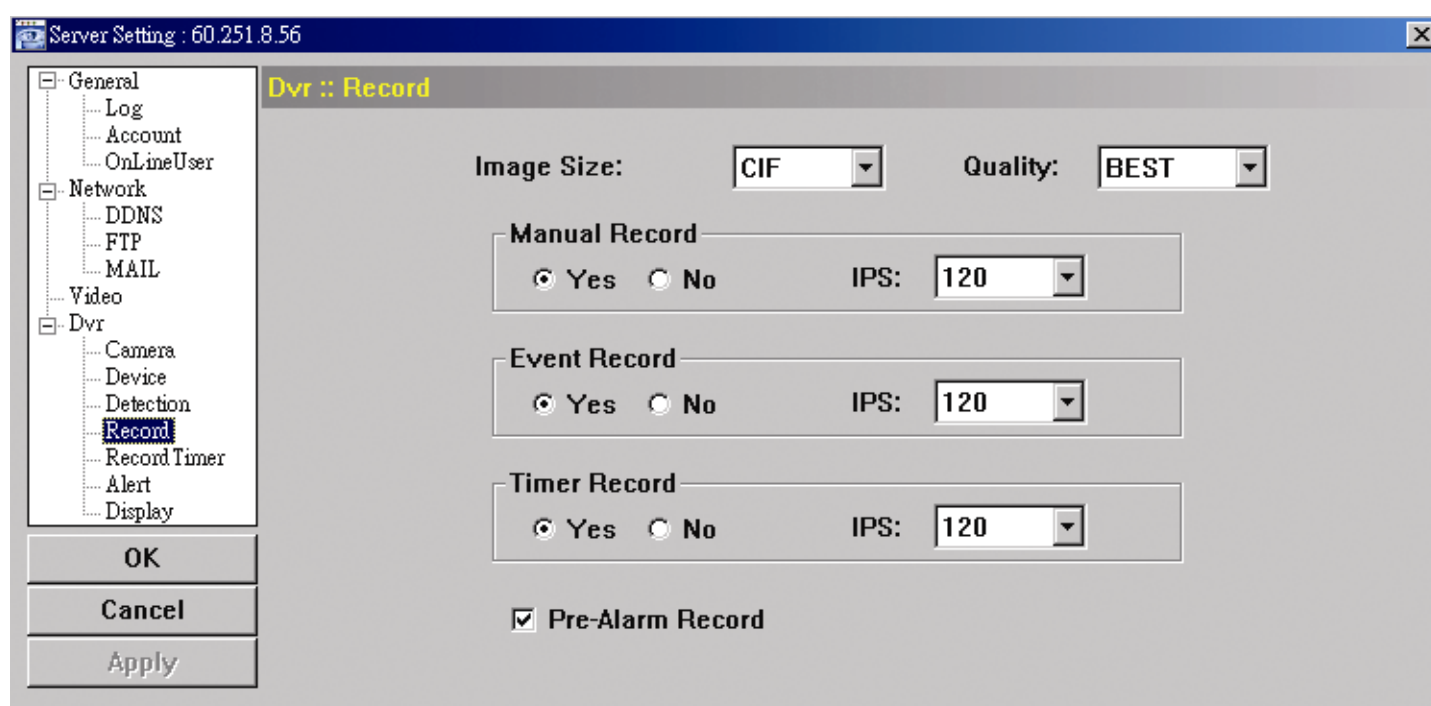


Please see the description below for each function:

Function	Description
DETECT	Enable (ON) or disable (OFF) the function of “Motion Detection”. If this function is enabled, you might need to set the motion detection sensitivity or simply keep the default values. For details, please see the description below.
Motion Detection Sensitivity (LS / SS / TS / RE)	Set the detection sensitivity in 4 different adjustable factors (LS / SS / TS / RE). LS “Level of Sensitivity”, is to set the sensitivity of comparing two different images. The smaller the value is, the higher sensitivity for motion detection. The highest sensitivity setting is 0, and the lowest sensitivity setting is 15. The default value is 7. SS “Spatial Sensitivity”, is to set the sensitivity for detecting the size of one object (the number of the grids) on the screen. The smaller the value is, the higher sensitivity for motion detection. The highest sensitivity setting is 0, and the lowest sensitivity setting is 15. The default setting is 3. TS “Time of Sensitivity”, is to set the sensitivity regarding how long one object stays in the detection area and triggers the recording. The smaller the value is, the higher sensitivity for motion detection. The highest sensitivity setting is 0, and the lowest sensitivity setting is 15. The default setting is 2. RE “Reference”, is to set a reference for detection. The default value is 10, which means the DVR will compare 10 continuous images at one time according to the sensitivity of LS, SS, TS simultaneously. The bigger the value is, the higher sensitivity for motion detection. The highest sensitivity is 61.
Alarm	Select N.C. (normal closed) / N.O. (normal opened) / OFF for the alarm polarity. For N.C. / N.O. contact details, please refer to “APPENDIX 2”.
Motion Detection Setting Area	Set the motion detection area by selecting the area grids with your mouse. Pink grids represent the area that is not being detected while the transparent grids are the area under detection. You can set multiple areas under detection. Click “—” (Clear All) to set the whole area undetected. Click “+” (Select All) to set the whole area under detection.
Apply / Return	To save the setting, click “Apply” and return to “Server Setting” window. To discard the setting, click “Return” to directly return to “Server Setting” window without saving.

◆ Record

In “Dvr” → “Record”, you will see the following items for DVR record settings.

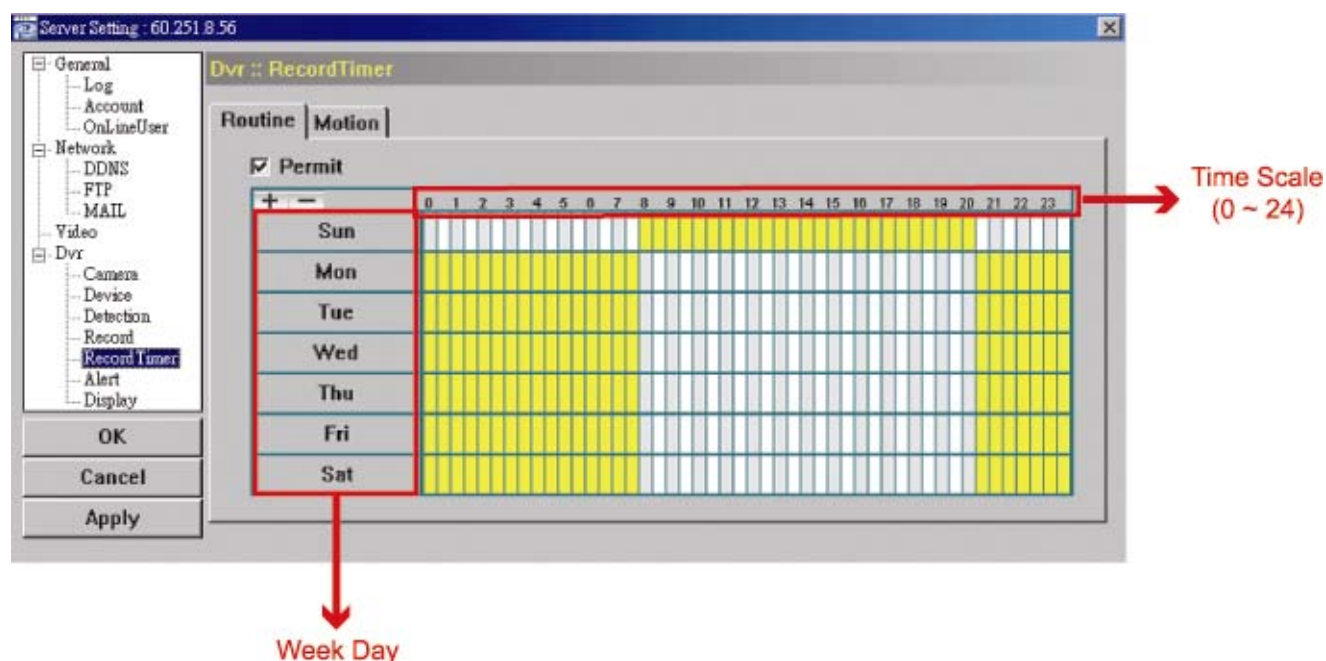


Function	Description
Image Size / Quality	Choose the image size (FRAME / FIELD / CIF) and quality (BEST / HIGH / NORMAL / BASIC).
Manual Record / Event Record / Timer Record	Select the record type that the DVR will take recording (Yes / No), and select the IPS setting (120 / 60 / 30 / 15) for the selected record type.

Function	Description
Pre-Alarm Record	Check this option if you want to enable the pre-alarm recording function. When any alarm is triggered, the DVR will record 8MB video data before the alarm event is actually happened.

◆ Record Timer

In this menu list, you can set the record schedule for normal recording or motion recording.



- Routine / Motion

Click “Routine” tab to select the time range for continuous recording, or “Motion” tab to select the time range within which the recording will be on when any movement is detected.

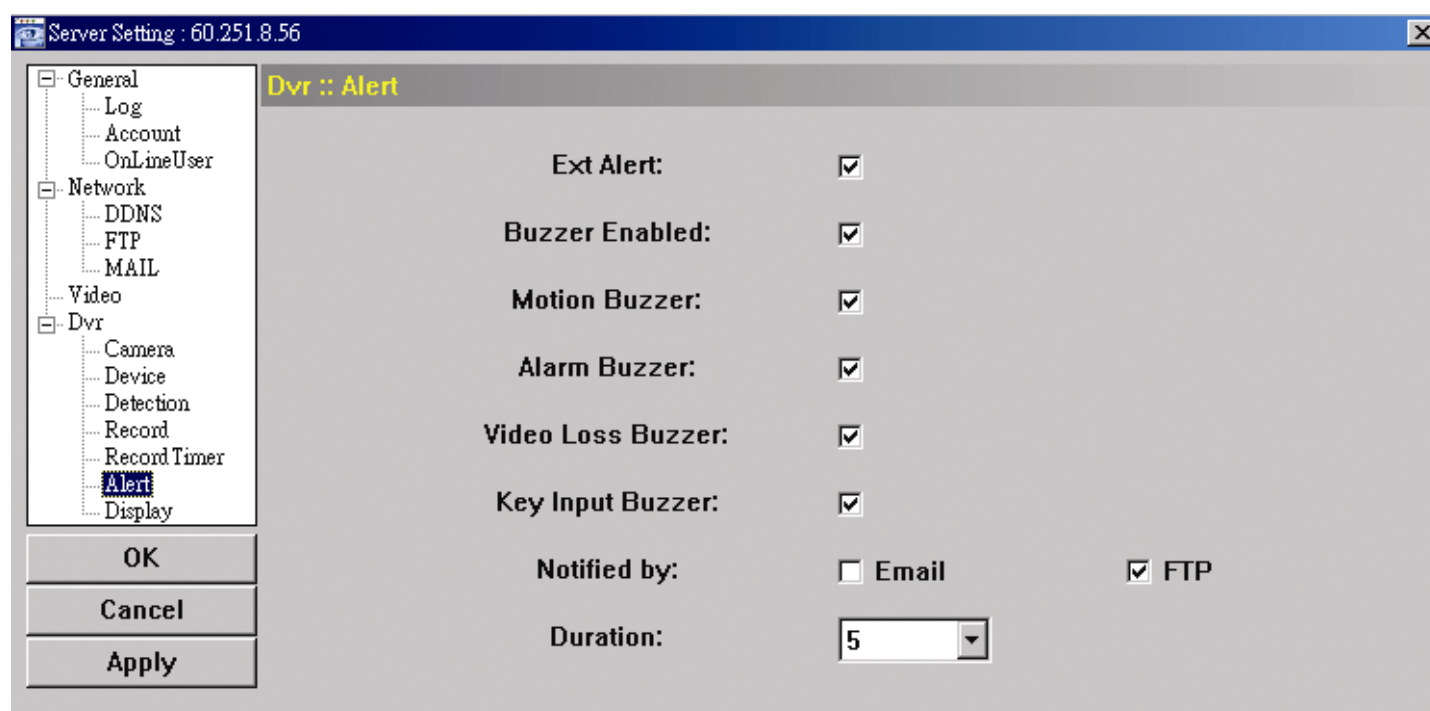
- Time Table

Find the day and time you want to enable the recording. Then, click to select the time interval(s). Each interval represents 30 minutes.

To enable the recording all the time, click “+”; to clear the record timer setting, click “—”.

◆ Alert

In “Alert”, you can set the DVR to beep for notification when there’s any alert happened. Check the buzzer option you want, and set how long the beep sound will be lasted.

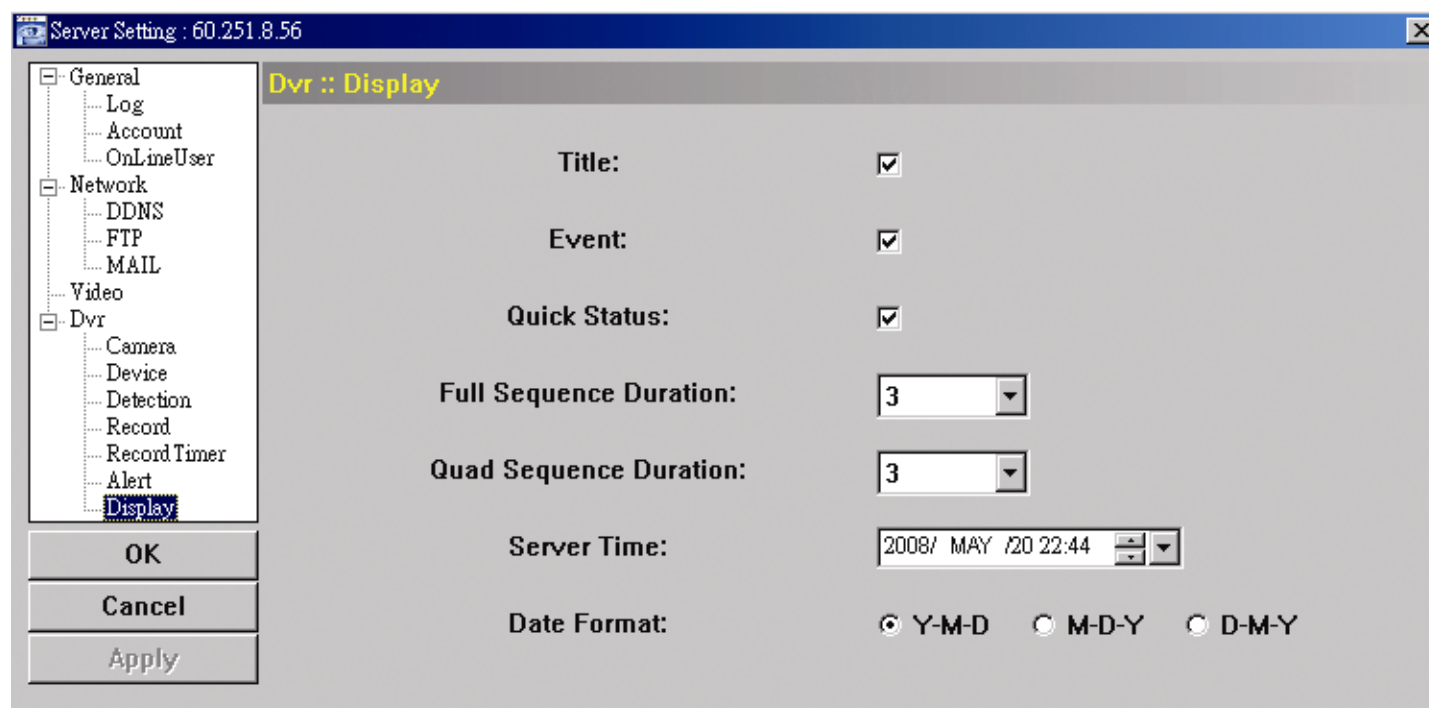


Function	Description
Ext Alert	Check this option to enable the external alert.
Buzzer Enabled	This option must be checked for “Motion Buzzer”, “Alarm Buzzer” and “Video Loss Buzzer” to take effects.

Function	Description
Motion Buzzer / Alarm Buzzer / Video Loss Buzzer / Key Input Buzzer	Check one of these 4 options, and you will hear the beep sound when any movement is detected / the alarm is triggered / video loss occurs / any DVR key is pressed.
Notified by	Select the notification method when any event occurs: Email or FTP.
Duration	Set the alert and buzzers to beep for 5 / 10 / 20 / 40 seconds.

◆ Display

In “Display”, you can choose whether to display some text indication or icons, set the channel display switch time-out, set the DVR time remotely, and select the date format (Y-M-D / M-D-Y / D-M-Y).



Function	Description
Title	Select to display the channel title in the live view.
Event	Select to display the event symbol in the live view.
Quick Status	Select to display the quick status in the live view.
Full Sequence Duration / Quad Sequence Duration	Set the time-out in seconds (3 / 5 / 10 / 15) after which the channel display will be switched by one channel (Full Sequence Duration) / by 4 channels (Quad Sequence Duration)..
Server Time	Set the DVR time remotely.
Date Format	Choose the date display format appropriate to your location (Y-M-D, M-D-Y and D-M-Y).

➤ Tools

Click  to upgrade the firmware version, multilingual OSD and boot display of your DVR (Update Server).

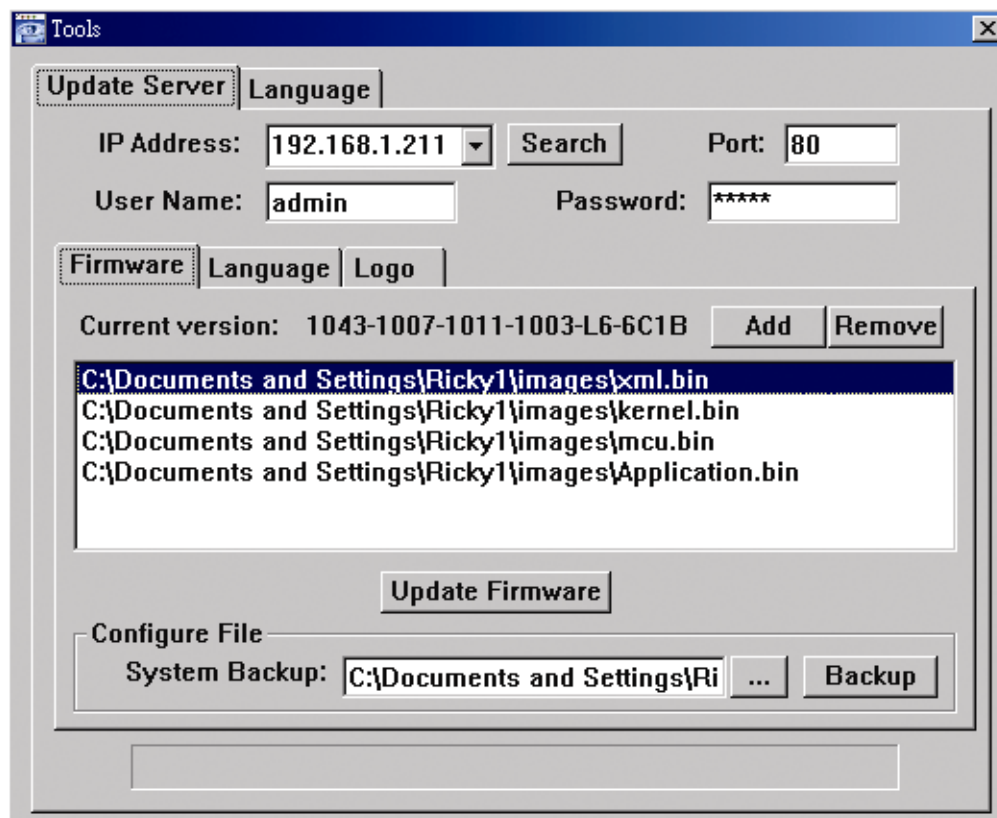
Note: You need to be a supervisor to operate this function. For details, please see “Account” at page 43.

◆ Update Server

3 update options are available for this function: Firmware, Language and Logo.

Before performing any update, finish the following settings first:

- 1) Choose the IP address of the DVR whose firmware needs to be updated from the drop-down list, or click “Search” to find.
- 2) Key in the user name, password and port number used to access your DVR remotely.
- 3) Select the update option (Firmware / Language / Logo) you want. For details, please see the description below.



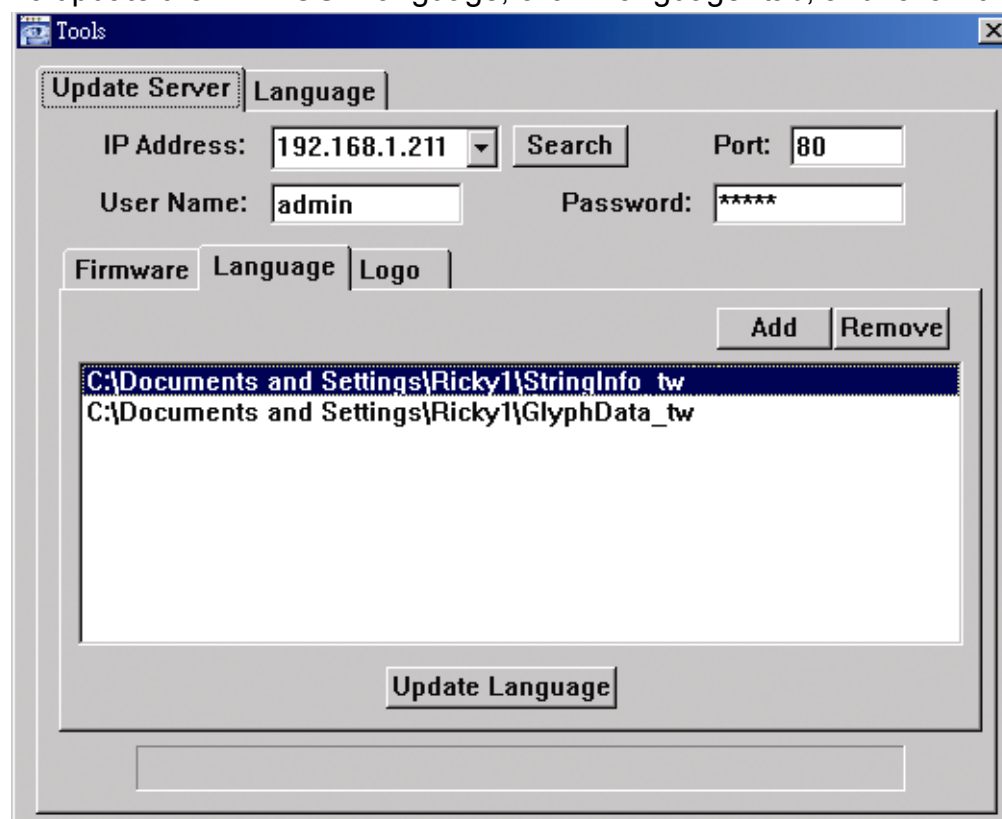
• Firmware

To upgrade your DVR firmware remotely, click “Firmware” tab, and follow the steps below:

- In the “Firmware” section, you will see the current firmware version. To upgrade the firmware version of your DVR, click “Add” to locate and select the firmware file. The file will be shown in the firmware list.
- If you want to backup your system before upgrading the firmware version of your DVR, select “System Backup” in the “Configure File” section, click “...” to specify the location for saving system backup, and click “Backup” to start the backup process.
- To start upgrading the DVR firmware, choose the file from the firmware list, and click “Update Firmware” to start the upgrade process.

• Language

To update the DVR OSD language, click “Language” tab, and follow the steps below:

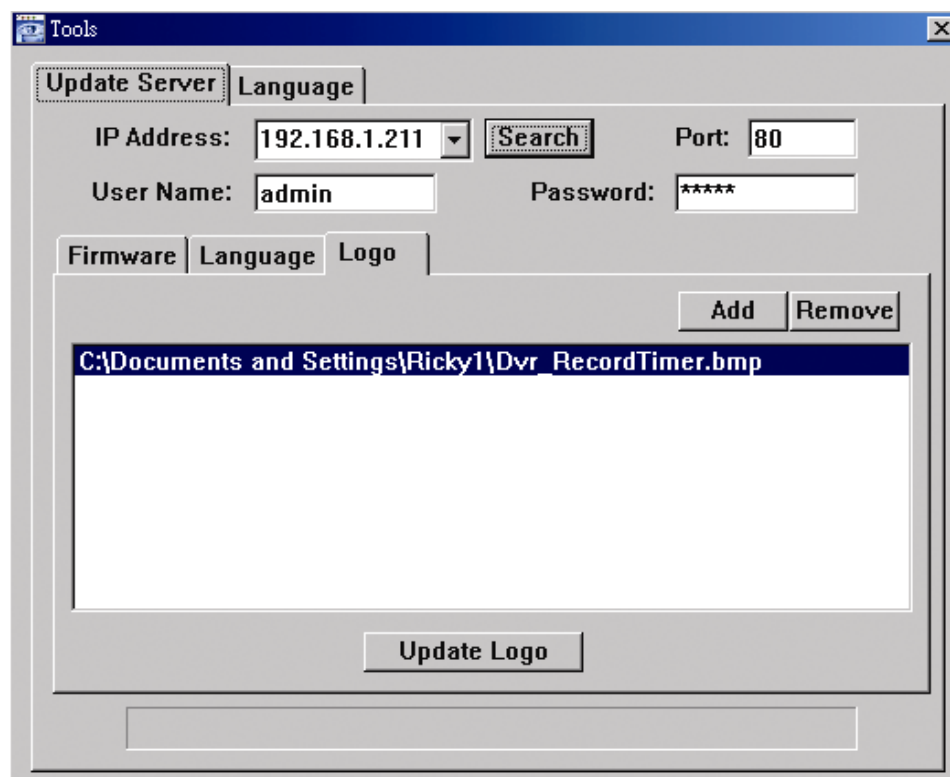


- Get the language files you want to update from your distributor.
- Click “Add” to locate and select the files needed. The files will be shown in the list. If you add the wrong file, select it and click “Remove”.

- c). To start updating the OSD language, choose the files from the list, and click “Update Language” to start the upgrade process.

• Logo

To replace the logo shown in the DVR boot display, click “Logo” tab, and follow the steps below:



- a). Prepare a graphic file in the “BMP” format for replacement.

Note: Use the image software to set the image size to 320 * 240, and save the image as an 8-bit (64-color) image in the "BMP" format.

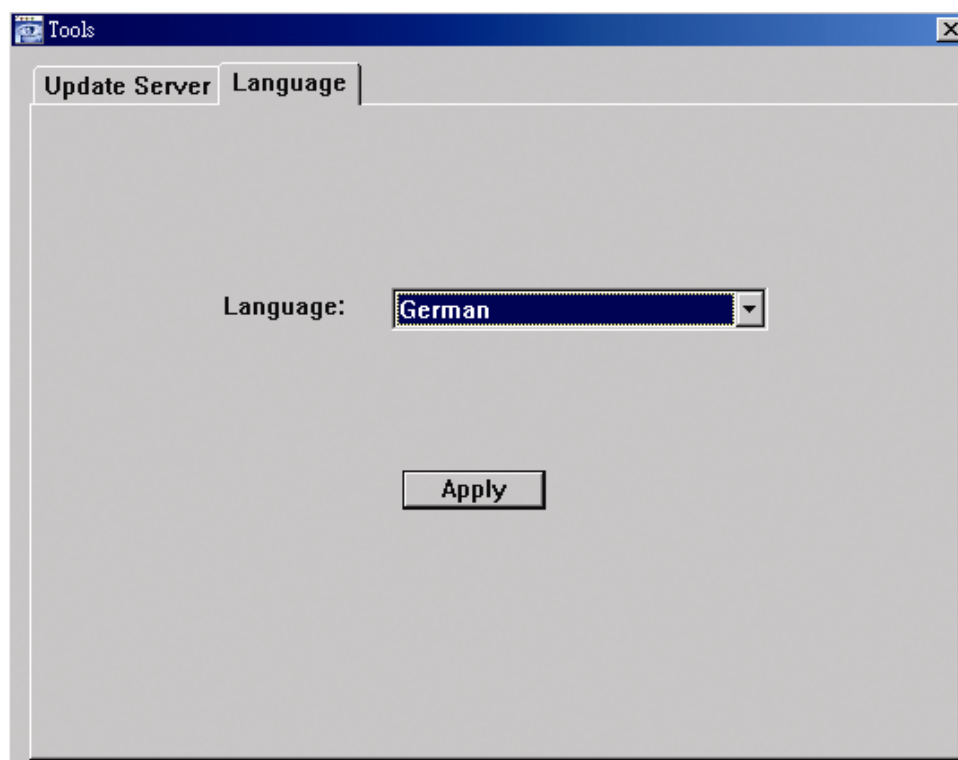
- b) Click “Add” to locate and select the graphic file. The file will be shown in the list. If you add the wrong file, select it and click “Remove”.
- c). To start updating the logo, choose the file from the list, and click “Update Logo” to start the upgrade process.

◆ Language

This software is available in English / Chinese / French / German / Portuguese / Spanish / Japanese.

Select a language from the drop-down list, and press “Apply”. You will be prompted to restart the application for this change to take effect.

Note: The default language is English.



➤ Status List

Click  to view all the event and record logs (All), or search for the specific log(s) by date or by record type (Condition).

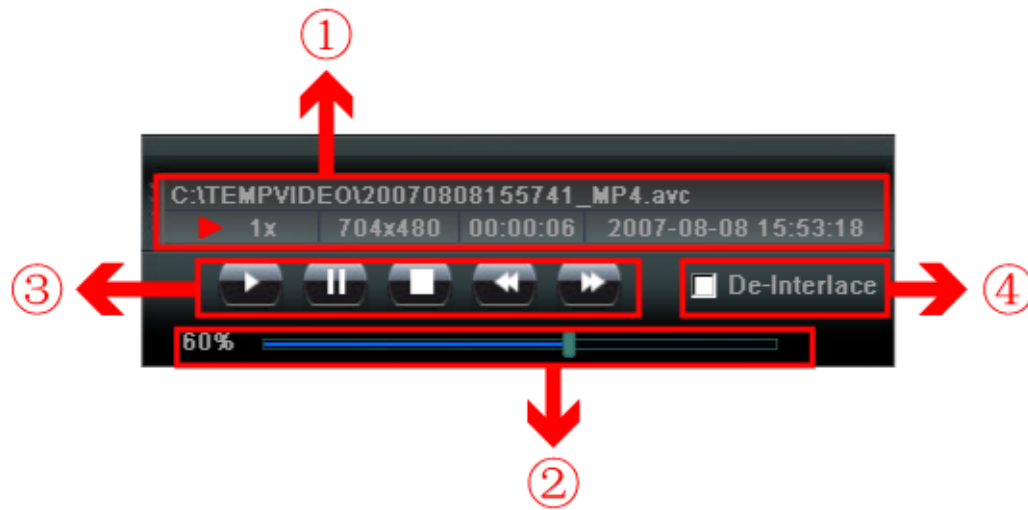
There are three types of logs: Record, Backup and Event. To playback the recorded data for a specific record or backup log, select the log, and double-click to start the video playback.

For detailed playback operation, please refer to “Playback” at page 54.

Button	Description
Time Range	To find the specific logs, set the time range (From / To), and the range unit here.
Record Type	Select the record type you want to search (User / Alarm / Motion / RETR).
Query	Click to start sorting the logs specified.
Delete / Delete All	Click “Delete” to remove the selected log(s), or click “Delete All” to clear the current log list. Tip: To select more logs all at once, press and hold the “Ctrl” key on your keyboard, and click to select the logs you want to remove.
Play	Click to play the selected record log. The playback panel will be shown for your further operation. For playback details, please see “Playback Screen” at page 54.
Repair	Click to fix the log with errors.
Close	Click “Close” to quit this window.

◆ Playback Screen

When you select and play the recorded data for a specific log in  (Log) → “Record” or “Backup”, you will immediately go into the playback mode, and the following playback panel appears. For the function of each part on the panel, please refer to the following description.



NO.	Function	Description
①	Playback / Download Info Display	This area shows the detailed playback / download information, such as the file name, record date and time, and the speed, etc.
②	Playback Progress Bar	This area shows the playback progress and the progress percentage.
③	Playback Operation	This area is enabled only when the playback is started. ⏮ (Rewind) / ⏭ (Forward) / ⏹ (Stop) / ⏸ (Pause) / ⏪ (Play) Rewind / Forward Click once to get 2X fast rewind / forward, twice to get 4X, three times to get 8X, and four times to get 16X the highest.
④	De-Interlace	Click to reduce the vibration of the paused picture.

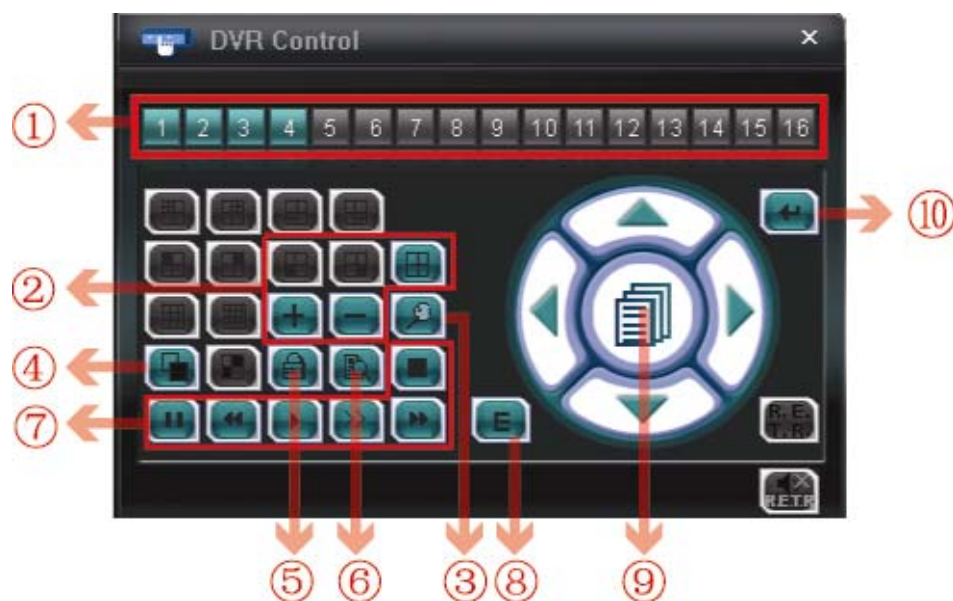
Information

To view the current network connection details, click this button.



DVR Control

When the AP is connected to the DVR, this DVR control panel will be enabled, and you can control the DVR remotely. For the function of each button, please refer to the following description.



NO.	Function	Description
1	Channel Selection	Click the channel No. (CH1 ~ CH16) to see the live view of the selected channel.
2		Click the view mode you want to see. There are 10 modes for your choice: Select to display the quad view. You can also click “” or “” to go to the previous / next channel of the selected channel.
3	Digital Zoom	Click to zoom in / out the selected channel image.
4	Full Sequence	Full Sequence Click to display each channel one by one, starting from CH1. When CH4 is displayed, it will start from CH1 again. To exit from this display mode, click any other channel display button.
5	Key Lock	Click to enable the DVR key lock function. To unlock the DVR, key in your password, and click .
6	Search	Click “” to enter the DVR full search menu. You can check all the logs here, and select one of them to playback.
7	Playback	(Stop) / (Pause) / (Rewind) / (Play) / (Slow Playback) / (Forward) Rewind / Forward Click once to get 4X fast rewind / forward, twice to get 8X, three times to get 16X, and four times to get 32X the highest. Slow Playback Click once to get 4X slow playback and twice to get 8X slow playback.
8	Event	Click “” to enter the DVR full search menu. You can check all the logs here, and select one of them to playback.
9	Menu and Arrow Keys	Click “” (Menu) to enter the menu / exit the menu mode. Click the arrow keys to move the cursor and make the selection: / : Move the cursor up / down to select the previous / next menu or sub-menu function, or change the setting. / : Move the cursor left / right to the previous / next sub-menu items.
10	Enter	Click “” to confirm the setting or enter your selection.

8.2 IE Web Browser

You can view the live images only via IE web browser.

Note: The supported PC operation systems are Windows 2000 and Windows XP.

Step 1: Key in the IP address used by your DVR in the URL address box, such as 60.121.46.236, and press Enter. You will be prompted to enter the user name and password to access the DVR.

If the port number your DVR used is NOT 80, you need to key in the port number additionally. The format is **ipaddress:portnum**. For example, for IP address 60.121.46.236 and port No. 888, please key in "http://60.121.46.236:888" into the URL address box, and press "Enter".

Step 2: Enter the user name and password, the same as the ones used at AP login, and press "OK". You will see a similar screen as the following when the login information is correct.



NO.	Function	Description
1	Main Menu	<u>Channel Selection</u> Select to view a single channel (Channel 1 / Channel 2 / Channel 3 / Channel 4), or a 4-cut view (4 Cut). <u>Web Transmission Format</u> Select the web transmission format: MPEG4 or Quick Time. QuickTime is Apple Inc.'s multimedia software. You need to have QuickTime installed in you operation system first. When "QuickTime" is selected, you will be promoted to enter the user name and password to access the server of the DVR.
2	Network	View and set the network configuration as described in "Network" at page 44.
3	DVR	View and set the DVR color, motion detection, time, record timer, and alert. For details, please refer to "Color Setting" at page 38, "Detection" at page 48, "Record" at page 49, "Record Timer" at page 50, and "Alert" at page 50.
4	General	View and set the DVR language & accounts, check the server logs, and upgrade the DVR firmware. For details, please refer to "Account" at page 43, "Logs" at page 43, and "Tools" at page 51.

8.3 QuickTime Player

You can also use the QuickTime player to remotely log into the DVR and check the live view only.

Note: QuickTime is Apple's multimedia software. You need to have QuickTime installed in your operation system first, and you can access the DVR to see the live view.

If you have installed QuickTime, please skip Step 1.

Step 1: Go to Apple's official website to download QuickTime. The website address is as follows:

<http://www.apple.com/quicktime/win.html>

- Click "Download" to go into the download page, and select to download the free player.
- Leave your Email address, and press "Free Download Now" to download the latest QuickTime player.
- When the download is completed, execute the "QuickTimeInstaller.exe" file, and follow the on-screen instructions to finish the installation procedure.

Step 2: Open your QuickTime player. Select "File" → "Open URL", and key in the URL address.

The URL format is "rtsp://**ipaddress**/live/mpeg4" (For example, "rtsp://**59.124.231.75**/live/mpeg4").

Click "OK" to continue.



Step 3: A pop-up window will appear and prompt you to enter the authentication information. Key in the user name and password for accessing your DVR. The user name and password are the same as the ones you use to log into the AP.

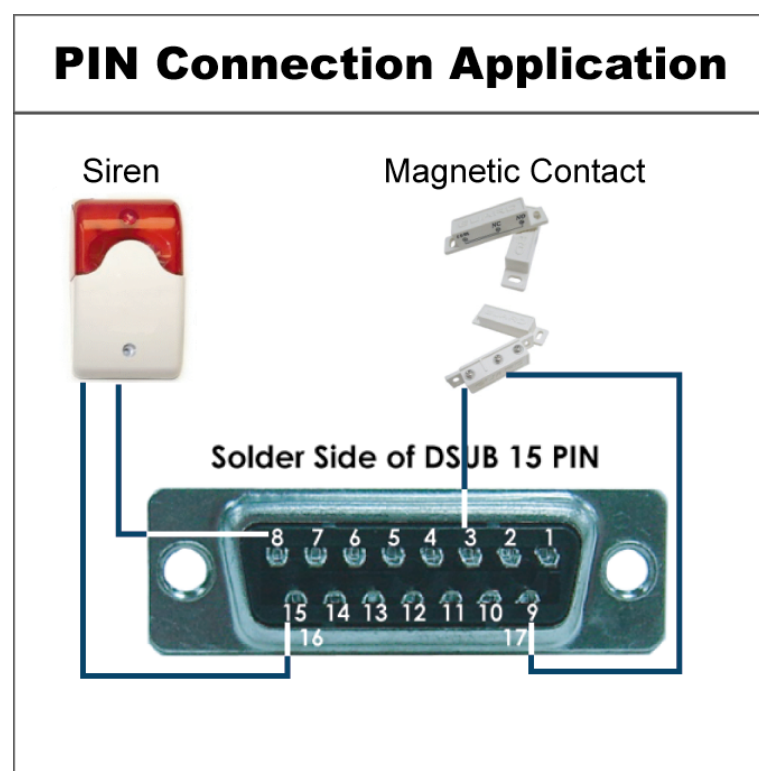
If the information is correct, press "OK" to go on. If not, press "Cancel" to quit the accessing.



Step 4: When the login is successful, you will see a similar screen as the following.



APPENDIX 1 PIN CONFIGURATION



Siren: When the DVR is triggered by alarm or motion, the COM connects with NO and the siren with strobe starts wailing and

Magnetic Contact: When the magnetic contact is opened, the alarm will be triggered and the recording is on.

PIN	FUNCTION	DESCRIPTION
1	PIN OFF	
2	PIN OFF	
3 ~ 6	ALARM INPUT	To connect the wire from ALARM INPUT (PIN 3 -- 6) to GND (PIN 9) connector, DVR will start recording and the buzzer will be on. *“MENU” -> “ADVANCE” -> “DETECTION” -> “DETECTION SETUP” -> “ALARM” is set to “N.C.”: When the alarm input signal is “N.C.”, the unit starts to record and buzzer. *“MENU” -> “ADVANCE” -> “DETECTION” -> “DETECTION SETUP” -> “ALARM” is set to “N.O.”: When the alarm input signal is “N.O.”, the unit starts to record and buzzer.
7	EXTERNAL ALARM NC	Under the normal operation, COM connects with NC and disconnects from NO. But when any alarm is triggered, COM disconnects with NC and connects with NO. Attention: The voltage restriction is under DC24V 1A.
8	EXTERNAL ALARM NO.	Under the normal operation, COM disconnects with NO. But when any alarm is triggered, COM connects with NO. Attention: The voltage restriction is under DC24V 1A.
9	GND	Signal GND
10	RS485-B	DVR can be controlled remotely by the keyboard of PC by using RS-485 serial communication signals.
11	RS485-A	DVR can be controlled remotely by the keyboard of PC by using RS-485 serial communication signals.
12 ~ 14	PIN OFF	
15	EXTERNAL ALARM COM	Under the normal operation, COM disconnects with NO. But when any alarm is triggered, COM connects with NO. Attention: The voltage restriction is under DC24V 1A.
16 ~ 17	GND	Earth GND

APPENDIX 2 COMPATIBLE USB FLASH DRIVE BRAND

Please upgrade the firmware of the DVR to the latest version to ensure the accuracy of the following table. If the USB flash drive is not supported by the DVR, the "USB ERROR" message will be shown on the screen.

Note: Please use your PC to format the USB flash drive as "FAT32".

MANUFACTURER	MODEL	CAPACITY
Transcend	JetFlash 110	256MB
		512MB
	JetFlash V30	1GB
	JetFlash 150	1GB
	JetFlash V20	1GB
	JFV10	4GB
Kingston	DataTraveler DTI KUSB DTI/256FE	256MB
		512MB
		2GB
PQI	Cool Drive (U339)	256MB
		512MB
Apacer	HANDY STENO HF202	256MB
		512MB
	USB2.0 Flash Drive HS120	1GB
	USB2.0 Flash Drive AH320	1GB
	AH221	2GB
Adata	USB2.0 Flash Disk-PD1	1GB
	USB2.0 Flash Disk-RB15	1GB
	USB2.0 Flash Disk-PD4	1GB
	PD10	2GB
Sandisk	Cruzer Micro	128MB
		256MB
		512MB
		1GB
		4GB

APPENDIX 3 COMPATIBLE HDD BRAND

Please upgrade the firmware of the DVR to the latest version to ensure the accuracy of the following table.

MANUFACTURER	MODEL	CAPACITY	ROTATION
Seagate	ST31000340AS/P	1TB	7200 rpm
	ST31000340AS/P	1TB	7200 rpm
	ST3750330AS/P	750GB	7200 rpm
	ST3750330AS/P	750GB	7200 rpm
Hitachi	HDS721010KLA330	1TB	7200 rpm
	HDS721075KLA330	750GB	7200 rpm
WD	WD10EACE-00ZJB0	1TB	7200 rpm
	WD75000AAKS-00RBA0	750GB	7200 rpm
	WD500KS-00MNB0	500GB	7200 rpm
Maxtor	9DP19G-326	320GB	7200 rpm

APPENDIX 4 TROUBLESHOOTING

Please refer to the table below for easy troubleshooting. The table describes some typical problems and also their solutions. Please check them before calling your DVR dealer.

• FAQ (Frequently ask question)

Questions	Solutions
No power	Check power cord connection.
	Confirm that there is power supplied from the outlet.
DVR is not working when pressing any button	You might be under “Key Lock” mode. Press any key and enter the password to exit this mode.
HDD detection failed	Replace with another HDD for testing.
	Replace with another HDD cable for testing.
	Make sure HDD “Master”, “Slave” mode is correctly set.
Can’t detect your USB flash drive	Replace with another USB flash drive for testing.
	Format the USB flash drive as FAT32 format and try again.
No live video	Confirm the camera is power supplied.
	Check the setting of the camera lens.
	Check the monitor’s video cable and connection.
	Check the camera’s video cable and connection.
No recorded video	Check if the HDD is installed and connected properly.
	Check the “MANUAL RECORD ENABLE” is set to “ON” , and the record function in the “CAMERA” menu is set to “ON” too.
Timer recording is not working	Check if “TIMER RECORD ENABLE” option is set to “ON” and the timer schedule has been arranged.
Motion detection recording is not working	Check if “EVENT RECORD ENABLE” option is set to “ON”.
	Check the detection function “DET” is set to “ON”.
	Check the detection area “AREA” has been setup.
Can’t play the recorded data on my DVR	There must be at least 8192 images of recorded data for playback to work properly. If not, your DVR will stop the playback. For example, if the IPS is set to 30, the recording time should be at least 273 seconds (8192 images / 30 IPS) for the playback to work properly.
Can’t backup the video with audio	Make sure the audio cameras are connected to the DVR channels which support the audio function (CH1, CH2, CH3 and CH4).
Can’t view the DVR images over the network with IE web browser	Check the DVR firmware version.
	Please choose to allow the web browser ActiveX or applet in the pop-out message.
Failed to backup the recorded files of the DVR from remote PC side. (For details, please see “Network Backup” at page 34.)	You need to be a supervisor to operate this function. For details, please see “Account” at page 43.
	Check if the network connection information is correct (IP Address / Port / User Name / Password).
	Specify the hard disk (HDD Number) and channel number (Channel) within which have the recorded data you need.
Failed to upgrade the firmware / OSD file	Check the USB flash drive is formatted to FAT32.
	Check the firmware / OSD file is correct.
Can’t use the IR remote control	Check whether if the batteries are installed or not.
	Aim at the IR receiving zone and try again.
	Check the lock button on the DVR front panel is switched to the right position.

APPENDIX 5 DEFAULT VALUE

• Default Value

Items	Default Value
• DVR Side:	
ADMIN Password	0000
Channel Title Display	ON
Event Status Display	ON
Image Size	CIF
Record Timer	OFF
Detection Timer	OFF
Date Format	Y/M/D
Daylight Saving	OFF
Camera – BRIG (Brightness)	128
Camera – CONT (Contrast)	098
Camera – SATU (Saturation)	128
Camera – HUE	128
Camera – COV (Covert Screen)	OFF
Camera – REC	ON
Detection	OFF
Detection - LS	07
Detection - SS	03
Detection - TS	02
Detection - RE	10
Detection - Alarm	OFF
Alert Buzzer Duration	5 seconds
Network - IP Address	192.168.1.10
Port	80
Full Screen Dwell Duration	3 seconds
Manual/ Event/ Timer Record	ON
Event Record IPS	120 (NTSC) / 100 (PAL)
Timer Record IPS	120 (NTSC) / 100 (PAL)
Auto Keylock (SEC)	30
Language	English (Multi-lingual OSD selectable)
• AP Side:	
User Name	admin
Password	admin
Port	80
IP Address	192.168.1.10