MPEG4 4CH DVR MANUAL

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: 1251-1012-1035-1018-00-6C1B

Licensed Software AP: 0099

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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 entry-level system with all necessary functions.

1.2 Features

MPEG4 Network Transmission

· MPEG4 web transmitting for faster transmission and clearer images via network

VGA Output Support

- · Built-in VGA interface
- Output resolution support up to 1024 x 768

Simplex / Duplex Operation

· Simplex / Duplex selectable for live record, playback, backup and network operation

Free upgrade to advanced functions

· Allows you to upgrade DVR functions without any charges

Backup function

· Supports USB 2.0 flash drive & network remote backup

Remote surveillance

 Supports remote surveillance up to 20 users simultaneously via the licensed software "Video Viewer", Internet Explorer web browser, and QuickTime player

Intelligent Motion Trigger Recording

- Advanced motion detection feature (with four individually adjustable parameters for motion detection sensitivity)
- Supports pre-alarm recording (2MB)

Covert Recording

· Blank screen replaces live displays to achieve covert recording

Audio Support

· Supports 1 audio-in, 1 audio-out to record sounds

General

- · System auto recovery after power failure
- Supports auto video system detection (NTSC / PAL)
- Supports daylight saving function
- · Supports TCP/IP, PPPOE, DHCP and DDNS network connection

1.3 Package Contents

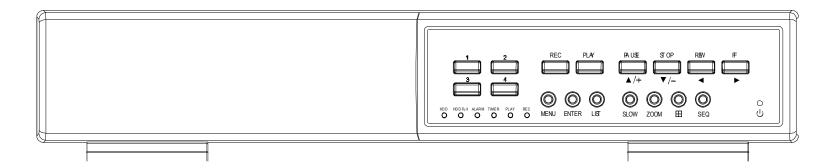
| ☐ Digital video recorder (DVR) | ☐ HDD bracket screws (spare parts) |
|--------------------------------|--|
| ☐ Adapter and power cord | ☐ AAA size battery * 2 |
| ☐ Quick start | $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $ |

1.4 Specifications

| MODEL | DR040 | DR040ASV |
|---|--|--|
| Video System | NTSC / PAL (auto detection) | |
| Video Compression Format | MPEG4 | |
| Video Input (Composite video signal 1 Vp-p 75Ω BNC) | 4 Channels | |
| Video Output (BNC) | Composite video sign | al 1 Vp-p 75Ω BNC |
| Video Output (VGA) | N/A | VGA interface built-in (Output resolution up to 1024 x 768) |
| Maximum Recording Rate (CIF) | Simplex Mode: 360×240 pixels with 120 IPS <ntsc> / 360×288 pixels with 100 IPS <pal> Duplex Mode: 360×240 pixels with 40 IPS <ntsc> / 360×288 pixels with 32 IPS <pal></pal></ntsc></pal></ntsc> | |
| Adjustable Recording Speed (CIF) | Simplex Mode: 120, 60, 30 IPS <n Duplex Mode: 40, 28, 20 IPS <n< td=""><td></td></n<></n | |
| Multilingual OSD | YE | S |
| Image Quality Setting | Best / High / No | ormal / Basic |
| Hard Disk Storage (HDD optional) | Accommodate | es one HDD |
| SATA Interface | N/A | Built-in |
| HDD Quick Cleaning | Quick clean up the "index sy (1TB under 2 | |
| Recording Mode | Manual / Timer / N | Motion / Remote |
| Refresh Rate | 120 IPS for NTSC | / 100 IPS for PAL |
| Operation Modes | Simplex / Duplex selectable *Live / Record / Playback / Backup / Network | |
| Audio I/O | 1 audio input, 1 audio output (Mono) | |
| Motion Detection Area | 16 × 12 grids per camera for all channels | |
| Motion Detection Sensitivity | Four adjustable variables with precis | se calculation for motion detection |
| Backup Device | USB 2.0 flash drive | |
| USB Interface | Rear panel * 1 | |
| Web Transmitting Compression Format | MPEG4 | |
| Ethernet | 10/100 Base-T. Support remote control and live view via Ethernet | |
| Remote Operation Software | Licensed software "Video Viewer", Internet Explorer web browser, and QuickTime player *Operating System: Windows Vista, XP & 2000; Apple Mac | |
| Remote Alarm Notification | By Email or FTP | |
| Network Protocol | TCP/IP / PPPOE / DHCP / DDNS | |
| Key Lock | YE | s |
| Video Loss Detection | YE | S |
| 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 | |
| Daylight Saving | YES | |
| Power Source | DC 19V | |
| Power Consumption | <42 W | |
| Operating Temperature | 10°C ~40°C (50°F~104°F) | |
| Dimensions (mm) | 345(W) × 60(H) × 223(D) | |
| System Recovery | System auto recovery after power failure | |

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: Any motion detection is triggered.

TIMER: Timer recording is activated PLAY: DVR is under playback mode REC: DVR is under recording mode

U: Power is connected

Note: To turn off your DVR, please disconnect the power supply.

2) 1/2/3/4

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

3) <u>REC</u>

Press to activate manual recording.

4) <u>PLAY</u>

Press to play the latest recorded video.

5) PAUSE / STOP / REW / FF

Under the playback mode:

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

6) <u>▲+/▼-/◀/▶</u>

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:

▲ ▼: Make the selection / Change the settings

■ : Make the selection

7) MENU

Press 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.

8) ENTER

Confirm the password entering.

9) 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" 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.

10) <u>SLOW</u>

Under the playback mode, press this button to slowly playback the recorded file (by 1/4 speed or 1/8 speed).

11) <u>ZOOM</u>

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

12) (Quad Display)

Press to show the quad display mode on the monitor.

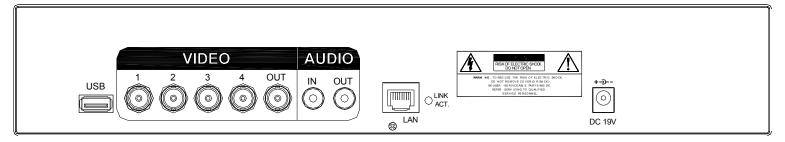
Note: If you want to make a video backup with audio, please connect audio camera to the CH1 which support the audio function

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

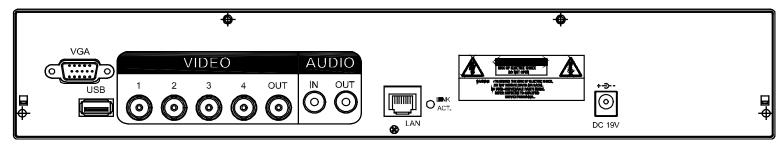
Press these two buttons at the same time to lock keys on the DVR front panel.

2.2 Rear Panel

DR040



DR040ASV



14) USB (USB port)

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.

15) <u>VIDEO INPUT (1 ~ 4CH)</u>

Connect to video sources, such as cameras.

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

16) VIDEO OUTPUT

Connect to a CRT monitor for video output.

17) AUDIO IN (1)

Connect to audio source, such as camera equipped with the audio function.

When users start recording, the audio input will also be recorded with corresponding video channel.

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

18) AUDIO OUT (1)

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

19) <u>LAN</u>

Connect to Internet by LAN cable.

20) LINK ACT.

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

21) DC 19V

Connect to the supplied adapter.

22) VGA (Selected Model Only)

Connect to a TFT monitor directly.

3. CONNECTIONS AND SETUP

3.1 HDD Installation

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.
- Step 2: Remove the HDD bracket.
- Step 3: If your DVR supports IDE HDD

Get a suitable brand HDD and set the HDD mode to "Master" mode.

If your DVR supports SATA HDD

Please skip Step3.

- Step 4: With the PCB side facing up, connect the HDD to the power connector and the DATA BUS connector.
- Step 5: Slide and fasten the HDD to the HDD bracket, two screws for each side.
- Step 6: Replace the HDD bracket back to the DVR base.
- Step 7: 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.

Connect the camera with the indicated power supply, and connect the camera video output to the DVR video input port with a coaxial cable or RCA lines with BNC connectors.

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

3.3 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 "U" will be on as green. It takes approximately 10 to 15 seconds to boot the system.

Note: To ensure that your DVR works constantly and properly, it's recommended to use an UPS, Uninterruptible Power Supply, for continuously operation. (Optional)

3.4 Date and Time Setting

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

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

Note: Please DO NOT change the date or time of your DVR after the recording function is activated. Otherwise, the recorded data will be disordered and you will not be able to find the recorded file to backup by time search. If users change the date or time accidentally when the recording function is activated, it's recommended to clear all HDD data, and start recording again.

Note: If the time and date settings return o their default values after the DVR is rebooted, please charge the DVR for at least 24-48 straight hours. Please contact your local retailer if the situation still occurs.

3.5 Password Setting

Press "MENU" and enter the password to go to the menu list. Then, move to "ADVANCE" to enter the advanced setting menu.

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

| ADVANCE |
|-----------|
| CAMERA |
| DETECTION |
| DISPLAY |
| ALERT |
| SYSTEM |
| NETWORK |
| BACKUP |
| HDD INFO |

| SYSTEM | | |
|---------------|---------------------|--|
| PASSWORD | XXXX | |
| RESET DEFAULT | RESET | |
| CLEAR HDD | HDD-MASTER-1 | |
| UPGRADE | START | |
| AUTO KEYLOCK | NEVER | |
| LANGUAGE | ENGLISH | |
| VIDEO FORMAT | NTSC | |
| VERSION | 1167-1012-1022-1017 | |

4. BASIC OPERATION

4.1 Live Page

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

| Icon | Function | Icon | Function | lcon | Function |
|----------|-----------------|------|-------------------|------|-------------------------|
| | Key lock | | Key unlock | | Live audio |
| Q | Playback audio | ⊕″ | Digital zoom mode | ⊕″ | Digital zoom unselected |
| | Timer recording | € | Motion | | Recording |

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 detection is activated, once any motion happens, you will see the icon " • " (motion) on the monitor.

3) Timer Recording Icon

When the timer record is activated, you will see the icon "O" (timer) on the monitor

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

Note: A new log will be added in the system log when the HDD data is overwritten, or the recording starts after DVR reboots.

4.3 Playback

Press "PLAY" 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 205 seconds (8192 images / 40 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" to pause the playback.

In the pause mode:

Press "▶" once to get one frame forward.

Press "◀" once to get one frame rewind.

3) <u>Stop</u>

Press "STOP" under playback mode, and the screen of this device will return to live monitoring mode.

4) Slow Playback

Press "SLOW" to get 1/4X speed playback and press twice to get 1/8X speed playback.

4.4 Key Lock and Unlock

1) Key Lock On:

Press "MENU" + "ENTER" 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 20.

2) Key Lock Off:

Enter the DVR password to exit "Key Lock" mode.

Note: For the password setting, please refer to the section "3.5 Password Setting" at page 7.

4.5 Upgrade

Firmware / Multilanguage OSD Upgrade

- 1) <u>Use USB to upgrade firmware or OSD:</u>
 - Step 1. Format the USB memory device as FAT 32 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. Insert your USB flash drive into the USB port. Wait till the DVR detects your USB flash drive.
 - Step 4. Press "MENU", and move to "ADVANCE" → "SYSTEM". Move to "UPGRADE" → "START", and press "ENTER".
 - Step 5. Select "YES", and press "ENTER" to confirm the upgrade.
- 2) <u>Use AP software to remotely upgrade firmware or OSD:</u>
 - Step 1. Save the upgrade files at your PC (do not change the file name), and log into the Video Viewer.
 - Step 2. Click " (Miscellaneous Control) to show the miscellaneous control panel. In the miscellaneous control panel, click " (Tools) on the miscellaneous control panel to enter the upgrade window.
 - Step 3. Enter the user name, password, IP address and port number of the DVR.
 - Step 4. Click "Firmware" or "Language" tab as needed, and click "Add" to select the firmware or OSD files to upgrade.
 - Step 5. Click "Update Firmware" or "Update Language" button to start the upgrade.

Note: For remote upgrade details, please see "Tools" at page 42.

4.6 Search

1) Search by List

Press "LIST" 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" to start playback.

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 "MENU", and select "QUICK SEARCH" 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

Click " (Miscellaneous Control) to show the miscellaneous control panel. In the miscellaneous control panel, click " (Status List) to enter the "Status List" page. In this page, you can see the list of four different types of recording (User / Motion / Alarm / R.E.T.R.) and click "Play" to directly playback the file.

5. MENU CONFIGURATION

| | QUICK SEARCH | DATE |
|--------------------|--------------|----------------------------------|
| | QUICK SEARCH | SEARCH HDD |
| | RECORD | IMAGE SIZE |
| | | QUALITY |
| | | MANUAL RECORD ENABLE |
| | | EVENT REOCRD ENABLE |
| | | TIMER RECORD ENABLE |
| | | MULTIPLEX MODE |
| MAIN MENU | | REMOTE VIEW |
| III tilt ill Litto | | MANUAL RECORD IPS |
| | | EVENT RECORD IPS |
| | | TIMER RECORD IPS |
| | TIMER | RECORD TIMER |
| | THVICIX | DETECTION TIMER |
| | | DATE |
| | DATE | FORMAT |
| | | DAYLIGHT SAVING |
| | ADVANCE | |
| | | TITLE |
| | | BRIG |
| | CAMERA | CONT |
| | | SATU |
| | | HUE COV. |
| | | TITLE |
| | | DET |
| | | AREA |
| | DETECTION | LS |
| | DETECTION | SS |
| | | TS |
| | | RE |
| | DISPLAY | FULL SCREEN DWELL DURATION (SEC) |
| | | CHANNEL TITLE |
| | | EVENT STATUS |
| | | INT. BUZZER |
| | ALERT | KEY BUZZER |
| | | VLOSS BUZZER |
| | | MOTION BUZZER |
| | | ALARM DURATION (SEC) |
| ASDVANCED MENU | | PASSWORD |
| , 100 MAINOLD MENO | | RESET DEFAULT |
| | | CLEAR HDD |
| | SYSTEM | UPGRADE |
| | STSTEM | AUTO KEYLOCK (SEC) |
| | | LANGUAGE |
| | | VIDEO FORMAT |
| | | VERSION |
| | | NETWORK TYPE |
| | NETWORK | IP CATEMAN |
| | | GATEWAY |
| | | NETMASK DDIMABY DNS |
| | | PRIMARY DNS |
| | | SECONDARY DNS PORT |
| | BACKUP | START TIME |
| | | END TIME |
| | | AVAILABLE SIZE |
| | | HDD NUM |
| | HDD INFO | HDD SIZE (GB) |
| | | EVENT |
| | EVENT LOG | TIME |
| | | COMMENT |
| | | |

6. QUICK START MENU

Press "MENU" 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 20.

| 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 to this item and press "ENTER" to go the next page. | |
| ← BACK | Move to this item and press "ENTER" 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 to "QUICK SEARCH", and press "ENTER".

You will see a similar screen as the following:

| MENU |
|---------|
| SEARCH |
| RECORD |
| TIMER |
| DATE |
| ADVANCE |

| | TIME SEARCH | |
|---------------------|-------------------------|----------|
| DATE | 2007 / OCT / 10 | 21:30:00 |
| SEARCH HDD | | ALL HDD |
| START | | |
| | | |
| | | |
| | | |
| PLEASE CONSULT YOUR | INSTALLER FOR ADVANCE S | 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 one HDD in your DVR.

3) START

Move to "START" and press "ENTER" to search and directly playback the recorded files.

6.2 RECORD

In this menu list, you can set record settings. Press "MENU" 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 to "RECORD", and press "ENTER". The screen will show the following options:

| MENU |
|--------------|
| QUICK SEARCH |
| RECORD |
| TIMER |
| DATE |
| ADVANCE |

| RECORD | |
|--|-----------|
| IMAGE SIZE | CIF |
| QUALITY | BEST |
| MANUAL RECORD ENABLE | ON |
| EVENT RECORD ENABLE | ON |
| TIMER RECORD ENABLE | ON |
| MULTIPLEX MODE | OFF |
| REMOTE VIEW | ON |
| MANUAL RECORD IPS | 100 |
| EVENT RECORD IPS | 100 |
| TIMER RECORD IPS | 100 |
| | |
| PLEASE CONSULT YOUR INSTALLER FOR ADVANC | E SETTING |
| ↑ SELECT ← BACK → NEXT ← ENTER | |

The submenu items are described below:

1) IMAGE SIZE

You can only select CIF.

2) QUALITY

Select one of the 4 quality options: BEST, HIGH, NORMAL and BASIC.

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.

5) <u>TIMER RECORD ENABLE</u>

Start / stop the timer recording function.

6) MULTIPLEX MODE

Select to activate the duplex mode (ON) or activate the simplex mode (OFF) for live record, playback, backup and network operation.

NOTE: The HDD data needs to be removed when you switch between the duplex mode and simplex mode. The DVR will prompt you to confirm the data deletion.

7) REMOVE VIEW

Allow the remote surveillance or not (ON / OFF)

8) MANUAL RECORD IPS

Select the images per second for MANUAL RECORD.

9) EVENT RECORD IPS

Select the images per second for EVENT RECORD (Recording that is triggered by alarm or motion).

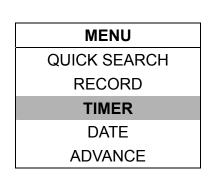
10) TIMER RECORD IPS

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 | |
|---------|------|-------------|-----|-------------|
| Simplex | CIF | 120, 60, 30 | CIF | 100, 50, 25 |
| Duplex | CIF | 40, 28, 20 | CIF | 32, 24, 16 |

6.3 TIMER

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



| TIMER | |
|--|------|
| RECORD TIMER | OFF |
| DETECTION TIMER | OFF |
| | |
| | |
| | |
| PLEASE CONSULT YOUR INSTALLER FOR ADVANCE SET ↑↓ SELECT ← BACK → NEXT ← ENTER | TING |

6.3 DATE

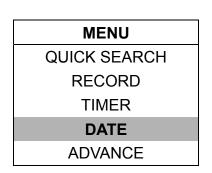
In this menu list, you can set up the system date and time for this device.

Note: Please DO NOT change the date or time of your DVR after the recording function is activated. Otherwise, the recorded data will be disordered and you will not be able to find the recorded file to backup by time search. If users change the date or time accidentally when the recording function is activated, it's recommended to clear all HDD data, and start recording again.

Note: If the time and date settings return o their default values after the DVR is rebooted, please charge the DVR for at least 24-48 straight hours. Please contact your local retailer if the situation still occurs.

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

The submenu items are described below:



| | | DAT | E |
|----------------|-------|-----|---------------------------------------|
| DATE FORMAT | | | 2008 / FEB / 15 19 : 15 : 27 Y/M/D |
| DAYLIGHT S | AVING | | OFF |
| PLEASE CONS | | | ER FOR ADVANCE SETTING ← 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

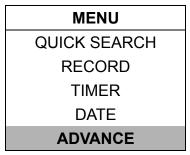
Specify whether to use daylight-saving time (ON / OFF). If it's set to ON, press "ENTER" to go to its submenu for further settings. You will see a similar screen as following.

| 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" on the front panel to enter the main menu list. Move to "ADVANCE", and press "ENTER". The screen will show the following options.



| ADVANCE |
|------------------|
| CAMERA |
| DETECTION |
| DISPLAY |
| 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 to "CAMERA", and press "ENTER". You will see a similar screen as the following:

| ADVANCE |
|-----------|
| CAMERA |
| DETECTION |
| DISPLAY |
| ALERT |
| SYSTEM |
| NETWORK |
| BACKUP |
| HDD INFO |
| EVENT LOG |

| | | CA | MERA | | |
|---|------|------|------|-----|-----|
| TITLE | BRIG | CONT | SATU | HUE | COV |
| 01 | 110 | 120 | 128 | 128 | NO |
| 02 | 110 | 120 | 128 | 128 | NO |
| 03 | 110 | 120 | 128 | 128 | NO |
| 04 | 110 | 120 | 128 | 128 | NO |
| 04 110 120 128 128 NO PLEASE CONSULT YOUR INSTALLER FOR ADVANCE SETTING ↑↓ SELECT ← BACK → NEXT ← ENTER | | | | | |

The submenu items are described below:

1) TITLE

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

Move 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 values are 128. The value is adjustable from 0 to 255.

3) <u>COV</u>

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.

7.2 DETECTION

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

| ADVANCE |
|-----------|
| CAMERA |
| DETECTION |
| DISPLAY |
| ALERT |
| SYSTEM |
| NETWORK |
| BACKUP |
| HDD INFO |
| EVENT LOG |

| DETECTION | |
|-----------------|--|
| DETECTION SETUP | |
| DETECTION TIMER | |

(1) DETECTION SETUP

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

| DETECTION |
|-----------------|
| DETECTION SETUP |
| DETECTION TIMER |

| • | | | | | | _ | |
|---|-----|-------|----|----|----|----|--|
| DETECTION | | | | | | | |
| TITLE | DET | AREA | LS | SS | TS | RE | |
| 01 | ON | SETUP | 07 | 03 | 02 | 10 | |
| 02 | OFF | SETUP | 07 | 03 | 02 | 10 | |
| 03 | OFF | SETUP | 07 | 03 | 02 | 10 | |
| 04 | OFF | SETUP | 07 | 03 | 02 | 10 | |
| PLEASE CONSULT YOUR INSTALLER FOR ADVANCE SETTING | | | | | | | |

PLEASE CONSULT YOUR INSTALLER FOR ADVANCE SETTING

↑↓ SELECT ← BACK → NEXT ← ENTER

The submenu items are described below:

1) TITLE

Show the camera title of each channel set in "CAMERA".

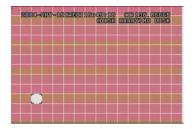
2) <u>DET</u>

Select if you want to activate the motion detection function for the selected channel (ON/OFF).

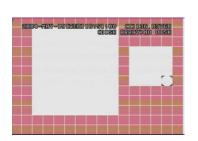
3) AREA

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

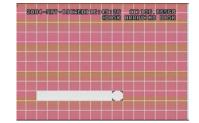
Pink blocks represent the area that is not being detected while the transparent blocks are the area under detection.



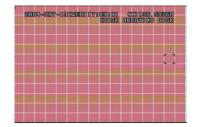
Press "ENTER" to confirm the start area.



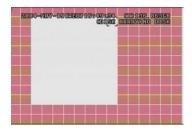
You can also up set up multi-detection areas.



Press ◀ or ▶ to choose the width of the area



Press "—" to set the whole area under detection



Press ▲ or ▼ to choose the height of the area, and press "ENTER" again to confirm.



Press "+" to set the whole area undetected

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.

(2) <u>DETECTION TIMER</u>

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

| DETECTION | |
|-----------------|--|
| DETECTION SETUP | |
| DETECTION TIMER | |

| DETECTION TIMER | | |
|-----------------|---------|---------|
| DATE | START | END |
| OFF | 00 : 00 | - 00:00 |
| DAILY | 08 : 00 | - 18:00 |
| SUN | 06 : 00 | - 23:00 |
| MON-FRI | 18 : 00 | - 23:00 |
| OFF | 00 : 00 | - 00:00 |
| OFF | 00 : 00 | - 00:00 |
| OFF | 00 : 00 | - 00:00 |

Set the date, start time and end time for the detection function. The setting method is similar to "TIMER".

7.3 DISPLAY

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

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

| ADVANCE |
|-----------|
| CAMERA |
| DETECTION |
| DISPLAY |
| ALERT |
| SYSTEM |
| NETWORK |
| BACKUP |
| HDD INFO |
| EVENT LOG |

| DISPLAY | |
|--|--|
| FULL SCREEN DWELL DURATION (SEC) 03 | |
| CHANNEL TITLE ON | |
| EVENT STATUS ON | |
| PLEASE CONSULT YOUR INSTALLER FOR ADVANCE SETTING ↑↓ SELECT ← BACK → NEXT ← ENTER | |
| | |

The submenu items are described below:

11) FULL SCREEN DWELL DURATION (SEC)

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

12) CHANNEL TITLE

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

13) EVENT STATUS

Select to display the symbols of the event 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 to "ALERT", and press "ENTER". You will see a similar screen as the following:

| ADVANCE |
|------------------|
| CAMERA |
| DETECTION |
| DISPLAY |
| ALERT |
| SYSTEM |
| NETWORK |
| BACKUP |
| HDD INFO |
| EVENT LOG |

| ALERT | |
|---|-------------|
| INT. BUZZER | ON |
| KEY BUZZER | ON |
| VLOSS BUZZER | ON |
| MOTION BUZZER | ON |
| ALARM DURATION (SEC) | 05 |
| PLEASE CONSULT YOUR INSTALLER FOR ADVA ↑↓ SELECT ← BACK → NEXT ← ENTER | NCE SETTING |

The submenu items are described below:

1) INT. BUZZER

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

Note: When this item is set to OFF, item 2) to item 4) will be disabled even though they are set to ON.

2) KEY BUZZER

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

3) VLOSS BUZZER

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

4) MOTION BUZZER

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

5) ALARM DURATION (SEC)

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

7.5 SYSTEM

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

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

| ADVANCE |
|-----------|
| CAMERA |
| DETECTION |
| DISPLAY |
| ALERT |
| SYSTEM |
| NETWORK |
| BACKUP |
| HDD INFO |
| EVENT LOG |

| SYSTEM | |
|--|-----------------------------|
| PASSWORD | XXXX |
| RESET DEFAULT | RESET |
| CLEAR HDD | HDD-MASTER-1 |
| UPGRADE | START |
| AUTO KEYLOCK | NEVER |
| LANGUAGE | ENGLISH |
| VIDEO FORMAT | NTSC |
| VERSION | 1251-1012-1035-1018-00-6C1B |
| PLEASE CONSULT YOUR INSTALLER FOR ADVANCE SETTING ↑↓ SELECT ← BACK → NEXT ← ENTER | |

The submenu items are described below:

1) PASSWORD

Press "ENTER" to reset the password for accessing the DVR system (ADMIN PASSWORD or GUEST PASSWORD).

Note: Users who use guest password to access the DVR will be only allowed to view the live streaming video and sequence display, shift the channel display, and lock keys.

2) RESET DEFAULT

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

3) CLEAR HDD

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

4) UPGRADE

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.

5) AUTO KEYLOCK

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

6) <u>LANGUAGE (Support multi-language)</u>

Press ▲ or ▼ to select the language of the OSD.

7) VIDEO FORMAT

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

8) VERSION

Here shows the firmware version information.

7.6 NETWORK

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

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

| ADVANCE | |
|-----------|--|
| CAMERA | |
| DETECTION | |
| DISPLAY | |
| ALERT | |
| SYSTEM | |
| NETWORK | |
| BACKUP | |
| HDD INFO | |
| EVENT LOG | |
| | |

| NETWORK | (|
|-------------------------------|-----------------------|
| 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 ← | ¹ ENTER |
| | |

The submenu items are described below:

· STATIC

1) NETWORK TYPE

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

2) NETWORK INFORMATION (IP / GATEWAY / NETMASK)

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 | 0800 |
| | |
| 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 | ac123456 |
| PASSWORD | tech123456 |
| 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 INSTALLE ↑↓ SELECT ← BACK → NEXT | |

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) <u>PORT</u>

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 ← E | 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

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.

Move to "BACKUP", and press "ENTER". You will see the following options:

| ADVANCE | |
|-----------|--|
| CAMERA | |
| DETECTION | |
| DISPLAY | |
| ALERT | |
| SYSTEM | |
| NETWORK | |
| BACKUP | |
| HDD INFO | |
| EVENT LOG | |

| BACKUP | |
|------------|--|
| USB BACKUP | |

7.7.1 USB BACKUP

Before making USB backup, please check if:

- a) 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 1 COMPATIBLE USB FLASH DRIVE BRAND" at page 49.
- b) The format of your USB flash drive is "FAT 32". If no, please format it to "FAT 32" in your PC.
- c) 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.

Note: The maximum total size for video backup via a USB flash drive is 2GB.

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

| BACKUP |
|------------|
| USB BACKUP |

| USB BACKUP | | |
|----------------|-----------------------------|--|
| START TIME | 2006 – 12 – 01 21 : 35 : 00 | |
| END TIME | 2006 – 12 – 01 21 : 45 : 00 | |
| AVAILABLE SIZE | 1.460 GB | |
| HDD NUM | HDD-MASTER-1 | |
| BACKUP TO USB | START | |

The submenu items are described below:

1) START TIME

Select the start time of the backup.

2) END TIME

Select the end time of the backup.

3) AVAILABLE SIZE

Display the available capacity in the inserted USB flash drive.

4) HDD NUM

Press ▲ or ▼ to select the HDD containing the data you need.

5) BACKUP TO USB

Move to "START", and press "ENTER" to start the video backup.

7.8 HDD INFO

In this menu list, you can view the remaining capacity of all the connected HDDs in this device. Move to "HDD INFO", and press "ENTER". You will see a similar screen as the following:

| ADVANCE |
|-----------|
| CAMERA |
| DETECTION |
| DISPLAY |
| ALERT |
| SYSTEM |
| NETWORK |
| BACKUP |
| HDD INFO |
| EVENT LOG |

| HDD INFO | | | |
|--------------|----------------------------------|-------------|---------------|
| HDD NUM | HDD SIZE (GB) | HDD NUM | HDD SIZE (GB) |
| HDD-MASTER-1 | 368 | HDD-SLAVE-1 | NO HDD |
| | Γ YOUR INSTALLER ACK → NEXT ← | | TTING |

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

| ADVANCE |
|-----------|
| CAMERA |
| DETECTION |
| DISPLAY |
| ALERT |
| REMOTE |
| SYSTEM |
| NETWORK |
| BACKUP |
| HDD INFO |
| EVENT LOG |

| EVENT LOG | | |
|---|-----------------|----------|
| EVENT | TIME | COMMENT |
| | | |
| POWER ON | 2007 / OCT / 10 | 20:27:49 |
| VLOSS | 2007 / OCT / 10 | 20:05:05 |
| VLOSS | 2007 / OCT / 10 | 20:00:11 |
| VLOSS | 2007 / OCT / 10 | 16:00:08 |
| VLOSS | 2007 / OCT / 10 | 15:09:32 |
| VLOSS | 2007 / OCT / 10 | 11:00:08 |
| VLOSS | 2007 / OCT / 10 | 10:27:33 |
| VLOSS | 2007 / OCT / 10 | 08:05:55 |
| RESET TO DEFAULT | 2007 / OCT / 10 | 08:05:26 |
| POWER ON | 2007 / OCT / 10 | 08:00:22 |
| PREV | NEXT | CLEAN |
| PLEASE CONSULT YOUR INSTALLER FOR ADVANCE SETTINGS ↑↓ SELECT ← BACK → NEXT ← ENTER | | |

8. REMOTE OPERATION

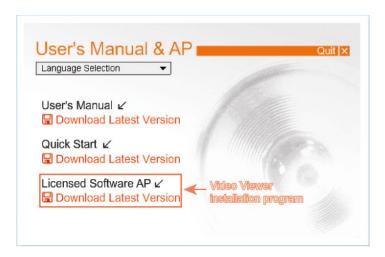
You can also control the DVR remotely via the supplied licensed software AP (hereafter called the "AP"), Internet Explorer web browser, and Apple's QuickTime player.

8.1 Supplied Licensed Software AP

8.1.1 Installation & Network Connection

1) Install the software

Step1: Place the supplied CD into your CD-ROM or DVD-ROM drive. The program will be automatically run.



Step2: Click "Licensed Software AP" to install Video Viewer, or click "Download Latest Version" under "Licensed Software AP" to download the latest version of Video Viewer from the Internet.

Step3: follow the on-screen instructions to finish the installation. When the installation is completed, a shortcut icon "" will be placed 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 "Par" icon on your PC desktop to enter the control panel. By defaults, the "Address Book" () panel will be displayed on the right side of the 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 31.

e) Double-click the IP address you just added into the address book to log in.

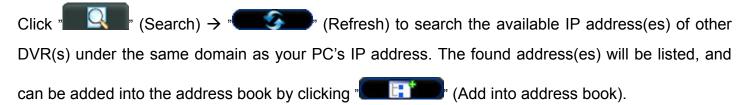
The default DVR values are as follows:

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

Remote Connection (via Internet)

- a) Double-click "Per icon on your PC desktop to enter the control panel. By defaults, the "Address Book" panel will be displayed on the right side of the 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.

OR



For details, please see " (Search) at page 31.

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.

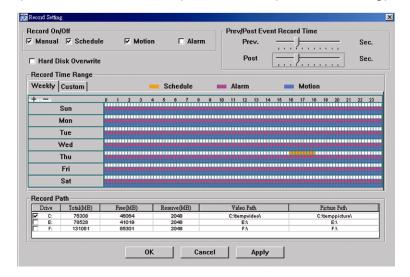
8.1.2 General AP Operation

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 33.

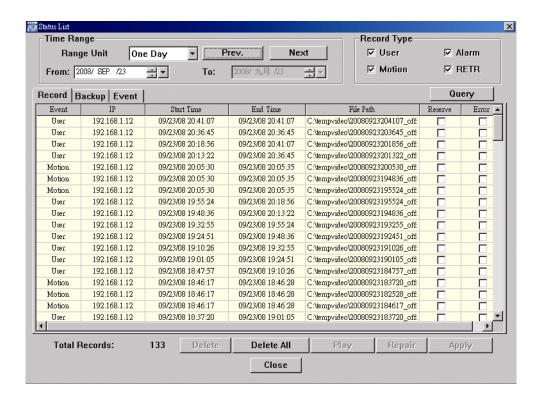
Playback

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 44.

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



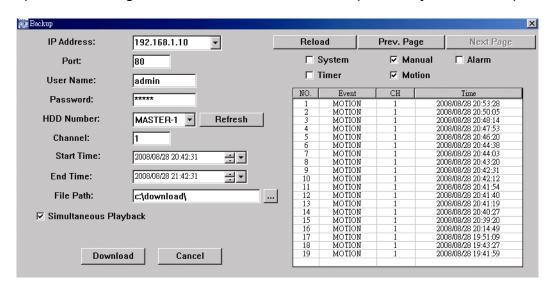
To immediately play a recording, select a log from the list, and click "Play", or double-click the selected log. Then, the playback control panel will be shown at the bottom of the main control panel similar to the following.



For the playback control panel details, please see "Playback Screen" at page 45.

Network Backup

Click " (Miscellaneous Control) → " (Backup) to go into the "Backup" 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 32.



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:

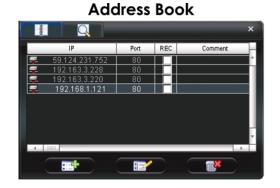


| Button | Function | Description |
|-------------------------|---|---|
| N/A | Image Display | The place where the images are displayed. For details, please see "8.1.4 AP Functions" at page 31. |
| -handes | Address Book | Click to show the predefined IP address(es). You can add, remove or search the 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 31. |
| | 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 32. |
| (*) / (| Record | Click to start / stop the manual recording. |
| | 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 33 for details. |
| Ø | Information | Click to show the current network connection details. For details, please see "Information" at page 46. |
| | DVR Control | Click to go to the DVR control panel to operate the DVR remotely. For details, please see "DVR Control" at page 46. |
| Live1 Play1 Dowr | Live / Playback / Download Display Switch | If you want to switch among the live view, playback view and download view, click the blue tab "Live1", "Play1" or "Download" to make a switch. Live1: When you are logged in, this tab with the live view is displayed by defaults. Play1: When a video clip is selected in "Status List" and played, this tab with the palyback view is displayed. Download: When the downloaded video clip is selected in "Status List" and played, this tab with the downloaded video clip is displayed. |
| 라 | Original Size | Click to return to original size of the monitoring view. |
| | 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 / 6-cut / 9-cut / 13-cut / 16-cut) which best suits your needs. The selected view will be indicated with a red frame around it. |
| X | Close | Click to close the current image display view. |
| ₫ | Close All | Click to close all the image display views. |

8.1.4 AP Functions

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:







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.

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

| Button | Function | Description |
|--------|----------|---|
| mit. | Add | Click to directly add one IP address for login. Key in the DVR access information needed, and click "Apply" and "Close". |
| | Edit | Select one current IP address from the address list, and click this button to modify the DVR access information as needed. |
| × | Remove | Select one IP address from the address list, and click this button to delete it. |
| N/A | REC | When the video viewer is connected to more than one 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.

| Button | Function | Description |
|--------|-----------------------|---|
| | Add into address book | Select from the available IP address list, and click this button to add the selected address to the address book. |
| | Setting | Select from the available IP address list, and click this button to edit the setting. |
| • | Refresh | Click to update the available IP address list. |

Miscellaneous Control [1]

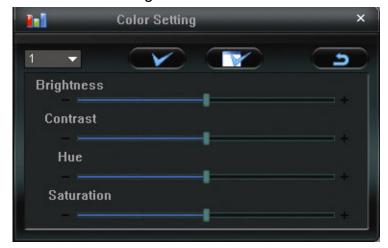
Click " [1]" (Miscellaneous Control) on the AP control panel, and 7 functions are available as follows:



| Button | Function | Description |
|------------|----------------|--|
| ini . | 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 32. |
| 43 | 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 29. |
| 600 | Record Setting | Click to go to the detailed record setting. Please refer to "Record Setting" at page 33 for details. |
| -0 | Server Setting | Click to go into the detailed DVR setting. Please refer to "Server Setting" at page 33 for details. |
| * | Tools | Click to update the firmware version, multilingual OSD and boot display of your DVR remotely. Please refer to "Tools" at page 42 for details. |
| • | 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 44. |

> 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.

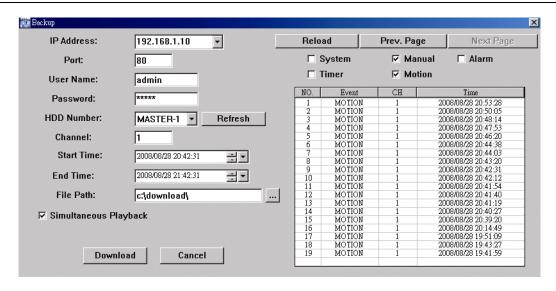
Note: You need to be a supervisor to operate this function. For details, please see "Account" at page 36.

> Backup

Click "(Backup) to go into the "Backup" 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 36.

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

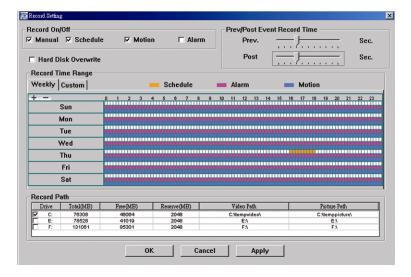


| Function | Description |
|--|--|
| IP Address / Port / User Name / Password | Check if the network connection information of the DVR within which contains the video data you need is correct. |
| HDD Number / Channel | Specify the hard disk (HDD Number) and channel number (Channel) within which have the video data you need. |
| Download by Time | Specify the time range within which has the video data you want in the "Start Time" and "End Time" columns. |
| 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" / "Timer" / "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". |
| File Path | Assign the location where the backup files are saved. |
| Simultaneously Playback | To view the backup images simultaneously when the download process is in progress, select the checkbox "Simultaneously 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 |
| | "Simultaneously Playback". You will only see a message box indicating the total time needed, the current status and the saving location. |
| 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

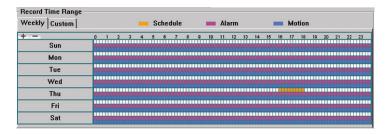
Select the pre-/post-alarm recording time from 0 sec. to 60 sec.

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 \sim Sun) and hours (0 \sim 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 -- Manual 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.



How to add a new time setting:

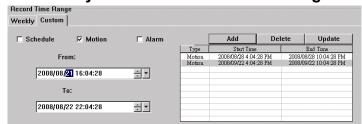
- i. Check the record type you want to schedule the recording.
- ii. Set the start time (From) and end time (To).

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:



- 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.

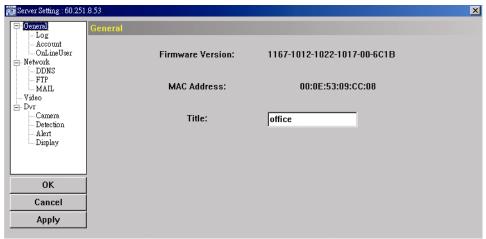
Server Setting

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 36.

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.



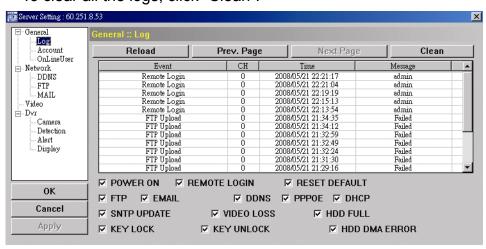
In "General", you will see the following items:

| Item | Description | |
|------------------|---|--|
| Firmware Version | Display the current firmware version of your DVR. | |
| MAC Address | Display the MAC address. | |
| Title | Provide a title for this DVR. Only 15 characters are allowed. | |

◆ Log

In "General" \rightarrow "Log", you can see all the logs for the network camera, such as "Power On", "Reset Default", "Net Login" and "SNTP Update" ... etc.

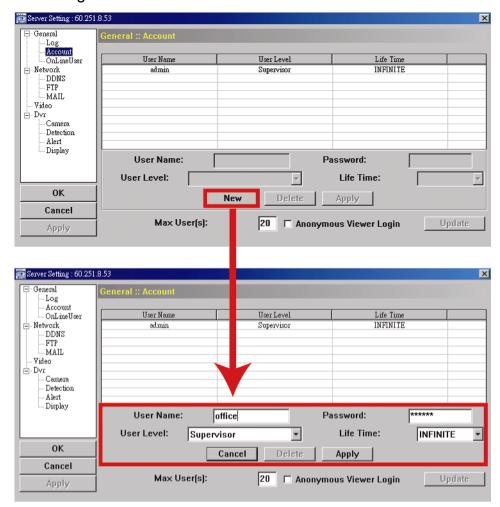
- To refresh the logs, click "Reload".
- To view the earlier or later logs that are not shown in the current page, click "Prev. Page" or "Next Page".
- To clear all the logs, click "Clean".



Account

In "General" \rightarrow "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.

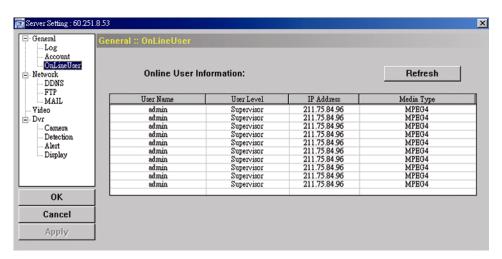


| Column | Description | | | | |
|------------|--|---------------------|---------------------|-------------------|-------|
| User Name | Set a user name that will be used for remote login. The user name allows up to 10 characters. | | | | |
| Password | Set the password that will be used for remote login. 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. | | | | |
| | For the functions each lev | el is allowed to us | e, please see the i | nformation below: | |
| | | Supervisor | Power User | Normal User | Guest |
| | Address Book | • | • | • | • |
| | Miscellaneous Control | | | | |
| | Color Setting | • | X | X | X |
| | Backup | • | X | X | X |
| | Record Setting | • | • | • | • |
| | Server Setting | • | X | X | X |
| | Tools | • | X | X | X |
| | Status List | • | • | • | • |
| | Record | • | • | • | • |
| | Snapshot | • | • | • | • |
| | Information | • | • | • | • |
| | Dvr Control | • | • | • | X |

- · 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".

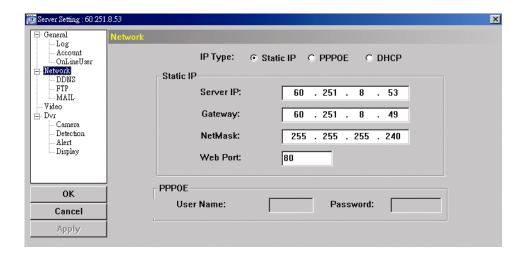
♦ OnLineUser

In "General" \rightarrow "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.



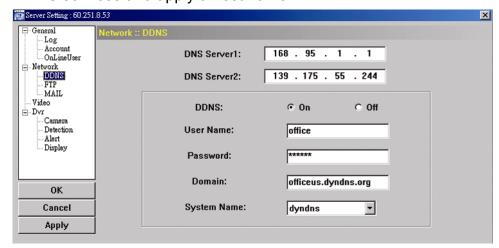
Select the network type you will be using for DVR connection. There are 3 network connection types: Static IP, PPPOE and DHCP.

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 38 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 p for added flexibility or security. The valid web port number ranges from 1 to 9999. | | |
| Static IP | 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 state 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 38. | |
| 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 38. | |

◆ 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:

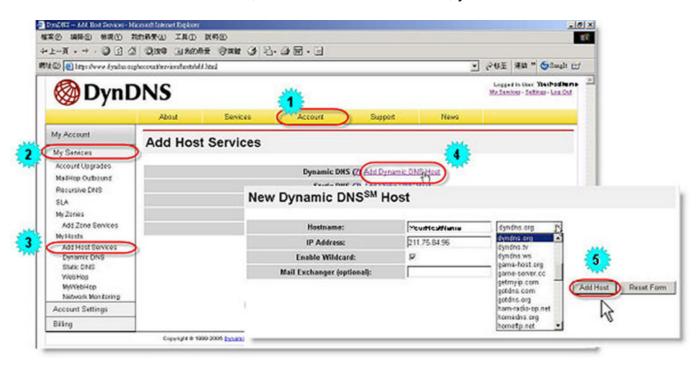
- a). Go to a website which provide the free DDNS service, for example, http://www.dyndns.org.
- b). Create an account in DynDNS.
- c). After creating one account, users will receive a confirmation E-mail within a few minutes. To complete the registration, please follow the instructions received.

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/).

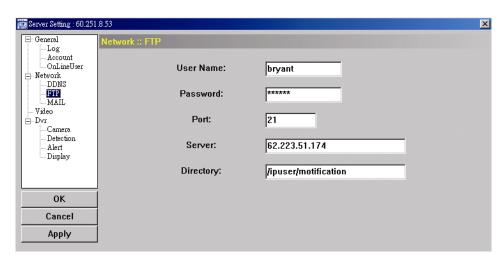
- d). Use the DDNS username and password to log into the DynDNS.
- e). Create a host name:

After login, click "Account" \rightarrow "My Service" \rightarrow "Add Host Services" \rightarrow "Add Dynamic DNS Host". Enter and choose a host name, and click "Add Host". Then, your DDNS host name is created.



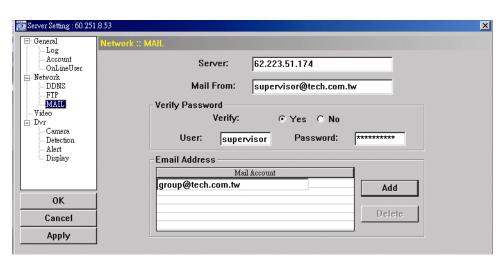
◆ FTP

In "Network" \rightarrow "FTP", 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

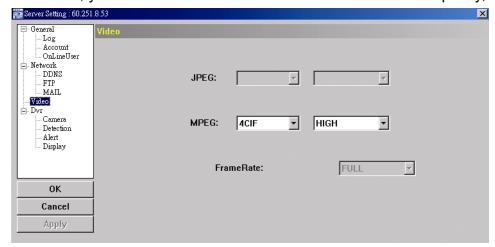
In "Network" \rightarrow "MAIL", enter the detailed E-mail information and press "Apply" to confirm. The information you set here will be applied when the function of E-mail notification is enabled in the "Alert" menu.



| 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). |

Video

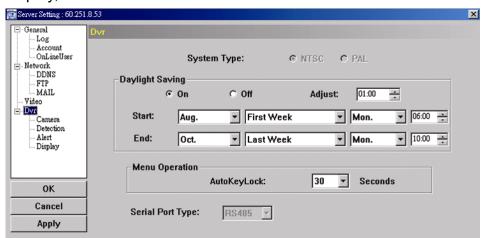
In "Video", you can set the video web transmission size and quality, and the frame rate for transmitting.



| Function | Description | |
|----------|---|--|
| MPEG | Choose the image size (4CIF / CIF) and picture quality (BEST / HIGH / NORMAL / BASIC) when the web transmission format is MPEG. | |

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.

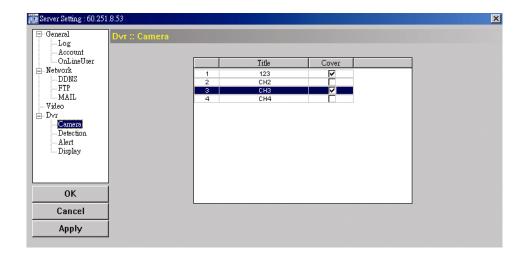


In "Dvr", you can see the following items:

| Function | Description | |
|-----------------|--|--|
| System Type | Display the current system type (NTSC / PAL). It's automatically detected. | |
| 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 Type | Display the serial type (RS485) used by this DVR. It's automatically detected. | |

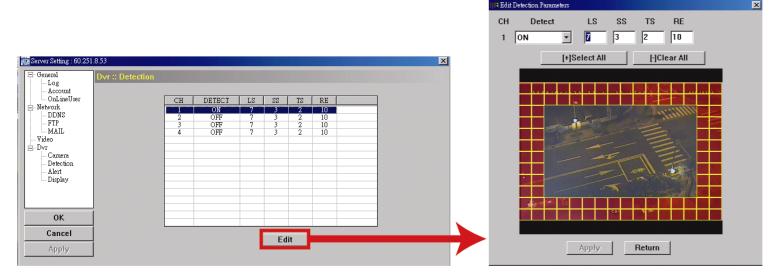
◆ Camera

In "Dvr" \rightarrow "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). For details, please refer to "DETECTION SETUP" at page 17. |
| 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. |

◆ Alert

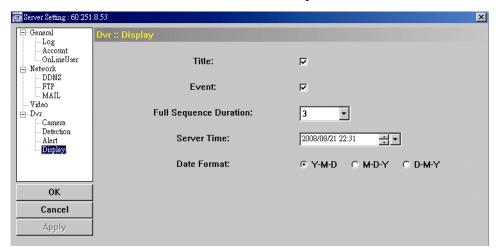
In "Alert", you can set the DVR to beep for notification when there's any alert happened. Check the buzzer option you want, and set how long the beep sound will be lasted.



| Function | Description |
|---|--|
| Buzzer Enabled | This option must be checked for "Motion Buzzer", "Video Loss Buzzer" and "Key Input Buzzer" to take effects. |
| Motion Buzzer / Video Loss Buzzer / Key Input Buzzer | Check one of these 3 options, and you will hear the beep sound when any movement is detected / 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. |
| Full 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). |
| 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), or change the UI language of the AP.

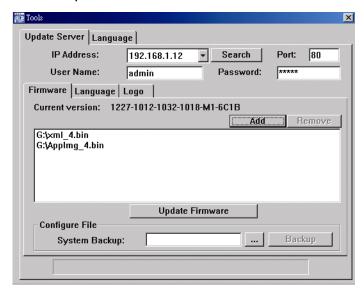
Note: You need to be a supervisor to operate this function. For details, please see "Account" at page 36.

♦ 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.



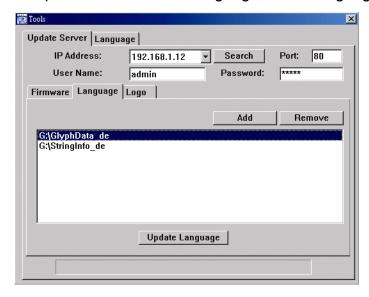
Firmware

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

- a). 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.
- b). 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.
- c). To start upgrading the DVR firmware, choose the file from the firmware list, and click "Update Firmware" to start the upgrade process.

· Language

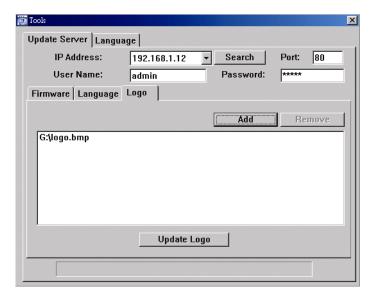
To update the DVR OSD language, click "Language" tab, and follow the steps below:



- a). Get the language files you want to update from your distributor.
- b) 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:



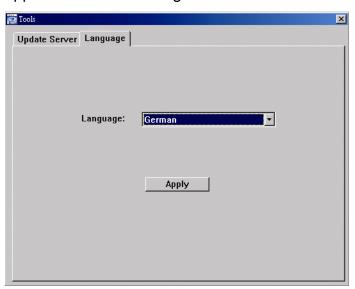
a). Prepare a graphic file in the "BMP" format for replacement.

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.

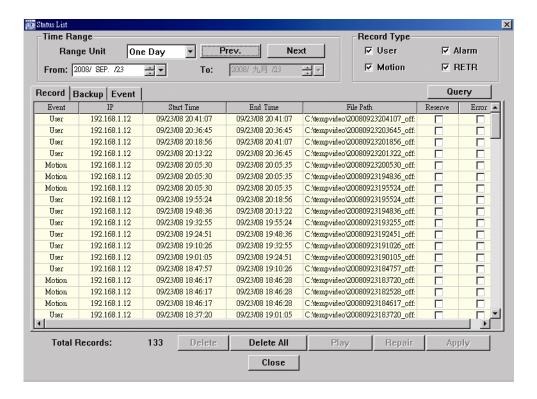


> Status List

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

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.

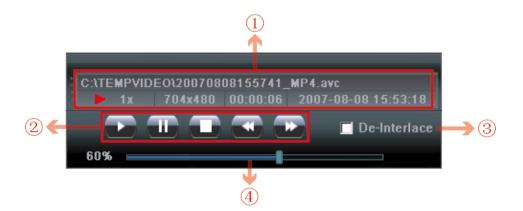
For detailed playback operation, please refer to "Playback" at page 45.



| 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 45. |
| 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 "Packup" → "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 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 |

| NO. | Function | Description | |
|-----|--|--|--|
| | | four times to get 16X the highest. | |
| 3 | De-Interlace | Click to reduce the vibration of the paused picture. | |
| 4 | Playback Progress Bar This area shows the playback progress and the progress percentage. | | |

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.



| Function | Description | |
|---------------------|---|--|
| Channel Selection | Click the channel No. (CH1 ~ CH4) to see the live view of the selected channel. | |
| 4-Cut Image Display | ut Image Display Click to display 4-cut channel display. | |

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 | Channel Selection Select to view a single channel (Channel 1 / Channel 2 / Channel 3 / Channel 4), or a 4-cut view (4 Cut). Web Transmission Format |
| | | 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 37. |
| 3 | DVR | View and set the DVR color, motion detection and alert. For details, please refer to "Color Setting" at page 32, "Detection" at page 41, and "Alert" at page 41. |
| 4 | General | View and set the DVR language & accounts, check the server logs, and upgrade the DVR firmware. For details, please refer to "Log" at page 36, and "Tools" at page 42. |

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 you operation system first, and you can access the DVR to see the live view.

If you have installed QuickTime, please skip Step 1.

Note: The latest version of QuickTime is V6.4 at the time this manual goes to press, and the supported operation systems are Windows Vista / XP / 2000, and Apple Mac.

- Step 1: Go to Apple's official website to download QuickTime. The website address is as follows: http://www.apple.com/quicktime/win.html
 - a). Click "Free Download" to go into the download page, and select to download the free player.
 - b). Leave your Email address, and press "Free Download Now" to download the latest QuickTime player.
 - c). 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 in New Player...", 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 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 "FAT 32".

Note: The maximum total size for video backup via a USB flash drive is 2GB.

| MANUFACTURER | MODEL | CAPACITY |
|--------------|------------------|----------|
| Apacer | AH320 | 2G |
| | AH320A | 8G |
| | AH220 | 1G |
| | AH320 | 4G |
| A-data | RB-18 | 1G |
| Transcend | JFV35 | 4G |
| | JFV30 | 8G |
| Sony | Micro Vault Tiny | 1G |
| Sandisk | Cruzer Micro | 2G |
| | Cruzer Micro | 4G |
| | Cruzer4-pk | 2G |
| MSI | F200 | 4G |
| PQI | U172P | 4G |
| Netac | U208 | 1G |

APPENDIX 2 COMPATIBLE HDD BRAND

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

For IDE HDD

| MANUFACTURER | MODEL | CAPACITY | ROTATION |
|-----------------|-----------------------------------|----------|----------|
| | Deskstar 7K250, HDS722516VLAT20 | 160GB | 7200 rpm |
| | HDS722516VLAT80 | 160GB | 7200 rpm |
| HITACHI | HDS722516DLAT80 | 160GB | 7200 rpm |
| | Deskstar 7K250, HDS722525VLAT80 | 250GB | 7200 rpm |
| | Deskstar 511DHT0021 | 500GB | 7200 rpm |
| | DiamondMax Plus 9, Model#6Y160L0 | 160GB | 7200 rpm |
| | DiamondMax 10 6L160R0 | 160GB | 7200 rpm |
| | DiamondMax 10 6L200R0 | 200GB | 7200 rpm |
| Maxtor | DiamondMax 10 6L200PO | 200GB | 7200 rpm |
| | MaxLine Plus Ⅱ, Model#7Y250P0 | 250GB | 7200 rpm |
| | DiamondMax 10 6L250R0-3 | 250GB | 7200 rpm |
| | DiamondMax 10 HDMA6L300RO-3 | 300GB | 7200 rpm |
| | Barracuda 7200.7 Plus, ST3160023A | 160GB | 7200 rpm |
| | Barracuda 7200.8 ST3200826A | 200GB | 7200 rpm |
| | Barracuda 7200.8 ST3250826A | 250GB | 7200 rpm |
| Coogata | Barracuda 7200.8 ST3300831A/P | 300GB | 7200 rpm |
| Seagate | Barracuda 7200.8 ST3400832A/P | 400GB | 7200 rpm |
| | 7200.9 ST3200827A/P | 200GB | 7200 rpm |
| | 7200.10 ST3250620A/P | 250GB | 7200 rpm |
| | 7200.10 ST3320620A/P | 320GB | 7200 rpm |
| | Caviar SE WD1600JB | 160GB | 7200 rpm |
| Wootorn Digital | Caviar WD2000BB-00DWA0 | 200GB | 7200 rpm |
| Western Digital | Caviar SE WD2500JB | 250GB | 7200 rpm |
| | Cavir RE WD2500SB-01KBC0 | 250GB | 7200 rpm |

· For SATA HDD

| MANUFACTURER | MODEL | CAPACITY | ROTATION |
|-----------------|-----------------|----------|----------|
| | HDS721680PLA380 | 80GB | 7200 rpm |
| HITACHI | HDT725032VLA360 | 320GB | 7200 rpm |
| | HDS721010KLA330 | 1000GB | 7200 rpm |
| Maxtor | STM3500320AS | 500GB | 7200 rpm |
| IVIAXIOI | STM3750330AS | 750GB | 7200 rpm |
| Sociato | ST31000340AS | 1000GB | 7200 rpm |
| Seagate | ST31000340SV | 1000GB | 7200 rpm |
| | WD5000AACS | 500GB | 7200 rpm |
| Western Digital | WD5000KS | 500GB | 7200 rpm |
| Western Digital | WD7500AAKS | 750GB | 7200 rpm |
| | WD10EACS | 1000GB | 7200 rpm |

APPENDIX 3 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 camera is connected to the DVR channel which supports the |
| | audio function (CH1). |
| Can't view the DVR images over the network | Check the DVR firmware version. |
| with IE web browser | Please choose to allow the web browser ActiveX or applet in the pop-out message. |
| Failed to backup the recorded files of the DVR | You need to be a supervisor to operate this function. For details, please see |
| from remote PC side. | "Account" at page 36. |
| (For details, please see "Network Backup" at | Check if the network connection information is correct (IP Address / Port / User |
| page 29.) | 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. |

APPENDIX 4 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 |
| 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 |