

User Guide 250GB H.264 Network DVR

with DVD-RW & 4 CCD Security Cameras Order Code: N05JJ





Warnings and Safety Precautions

FCC STATEMENT



This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This

equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

CE



This product is marked with the CE symbol and indicates compliance with all applicable directives.

WEEE DIRECTIVE & PRODUCT DISPOSAL



At the end of its serviceable life, this product should not be treated as household or general waste. It should be handed over to the applicable collection point for the recycling of electrical and electronic equipment, or returned to the supplier for disposal.

IMPORTANT GUIDELINES

- **User Manual** After unpacking this product, read the owner's manual carefully, and follow all the operating procedures and other instructions.
- Power Source This product should be operated only from the type of power source indicated on the label. If unsure of the type of power supply available in your home, office, or the area where you intend to use the product, consult product dealer or local power company.
- **Ventilation** Slots and openings in the cabinet are provided for ventilation. They ensure reliable operation of the product and protect it from overheating. These openings must not be blocked or covered. The product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the instructions have been adhered to.
- Heat The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products that produce heat. The general operating temperature should be 5°C ~45°C.
- Water and Moisture Do not use this product near water. Do not exceed the humidity specifications for the product as detailed in this manual.
- **Cleaning** Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth.
- **Power Cord Protection** Power-supply cords should not be routed so that they are likely to be walked on or pinched by items placed against them, paying particular attention to cords at plugs, receptacles, and the point where they exit the product.
- Overloading Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electrical shock.
- **Lightning** For added protection for this product during storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage to the product due to lightning and power line surges.
- Accessories Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may be irreparably damaged if it falls off and may cause serious personal injury.
- **Burden** Do not place a heavy object on top of or step on the product. The object may be irreparably damaged if it falls off and may cause serious personal injury.
- Damage Requiring Service Unplug the unit from the outlet and refer servicing to qualified service personnel under the following conditions:
 - » When the power-supply cord or plug is damaged.
 - » If liquid has been spilled, or objects have fallen into the unit.
 - » If the unit has been exposed to rain or water.
 - » If the unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the unit to its normal operation.
 - » If the unit has been dropped or the enclosure has been damaged.

- When the unit exhibits a distinct change in performance this indicates a need for service.
- **Servicing** Do not attempt to service this product. Opening or removing covers may expose the user to dangerous voltage or other hazards. Refer all servicing to qualified personnel.
- Safety Check Upon completion of any service or repairs to this unit, ask the service technician to perform safety checks to determine that the unit is in proper operating condition.

CAUTION



CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK.

DO NOT REMOVE COVER (OR BACK).

NO USER-SERVICEABLE PARTS INSIDE.

REFER SERVICING TO QUALIFIED SERVICE

PERSONNEL.

Explanation of Graphical Symbols



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of insinuated "dangerous voltage" within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral rhombus is intended to alert the user to the presence of important operating and maintenance (servicing) instruction in the literature accompanying the product.

USERS OF THE SYSTEM ARE RESPONSIBLE FOR CHECKING AND COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND STATUTES COIPCERNING THE MONITORING AND RECORDING OF VIDEO AND AUDIO SIGNALS. PANACOM SHALL NOT BE HELD RESPONSIBLE FOR THE USE OF THIS SYSTEM IN VIOLATION OF CURRENT LAWS AND STATUTES.

Package Contents

- DVR main unit (250GB HDD built-in) x 1
- Power adapter (5 in one) x 1
- AC power cord x 1
- Manual x 1
- Software CD x 1
- USB mouse X 1
- IR CCD color outdoor camera x 4
- BNC extension cord (12 Meters) x 4

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

1. IR Outdoor Camera set



Cap and screws for wall-mount installation

2. Wall-mount installation



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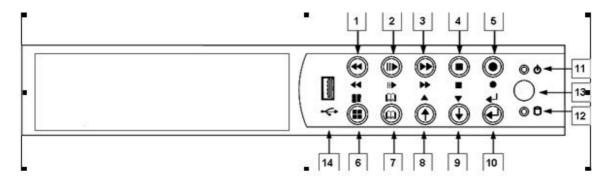
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Overview

1.1Front Panel



Controls:

No.	Name	Function
1	◀◀ REW	Backward search through a time-shifted or recorded video.
2	II/▶ PLAY/PAUSE	Start or pause video playback
3	▶▶ FF	Forward search through a time-shifted or recorded video.
4	■ STOP	Stop playback or backup.
5	● REC	Start or stop recording/backup.
6	MODE	Press to select 1/4 screen display.
7		Enter menu or back to previous menu list
8	↑/ ▲UP	Moves up through the list of menu. Also used to select menu options or change the DVR configuration values.
9	↓/▼ DOWN	Moves down through the list of menu. Also used to select menu options or change the DVR configuration values.
10	←SELECT/ENTER	Use this button to change values on main menu or sub menu setting.

Indicators:

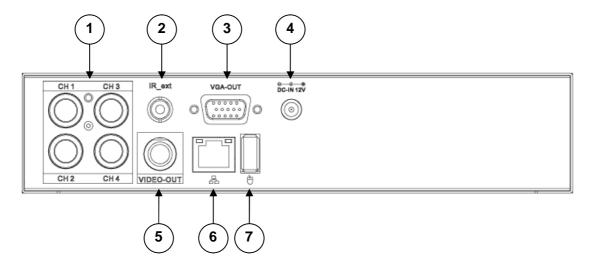
maioatoro:				
No.	Name	Function		
11	Power LED	The DVR unit is powered up and running. (Green color)		
12	Hard disk	LED indicator flashes at hard disk is acting (Red color)		
	Actived LED			

I/O:

., • .		
No. Name Function		Function
13	IR Receiver	IR Control receiver (optional function)
14	USB (2.0)	Connects PC for firmware upgrading/USB backup

1.2 Rear Panel Connector

The rear panel of the DVR contains virtually all of the connectors you will be using. The diagrams below outline the location and description of each connector:



No	Name / Labeled	Function	
1	CH1~CH4	The BNC connector for video input	
2	IR_ext	IR extender connector (optional)	
3	VGA-OUT	The VGA output (DB-9) port for the LCD monitor	
4	DC IN 12V	DC power port for the power adaptor	
5	VIDEO-OUT	Video output port for the security monitor	
6	LAN	The RJ45 port for the network cable	
7	MOUSE	The mouse port for USB mouse	

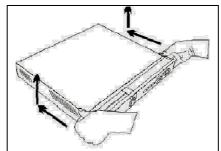
Chapter 2

Installation

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

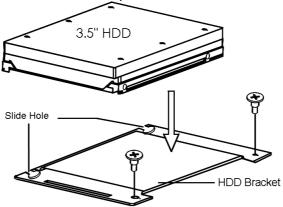
2.1 Hard Disk Installation

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

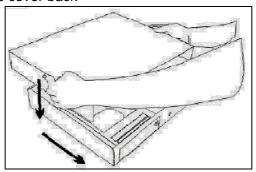


Step2: Unscrew two screws HDD bracket near to the front panel. Slide it forward to rear side to take the HDD bracket.

Setp3: un-Install 3.5" HDD drives on the top



Setp4: Put the chassis's cover back



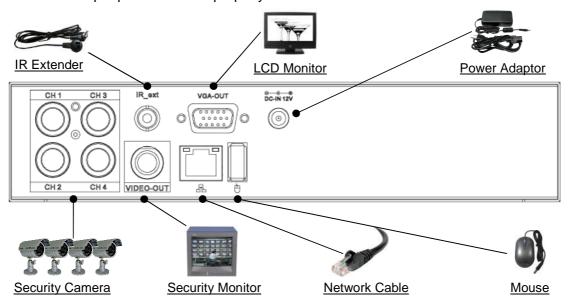
2.2 Video Format Detection

The DVR can automatically detect the video format (either NTSC or PAL) after the cameras have been properly installed and the DVR has been powered on.

Please refer the section "Hardware Setup" to setup the NTSC/PAL auto detection.

2.3 Connection Guide

Connect all peripheral devices properly before turn on the DVR.



Connect the Security Camera

Connect the security cameras to the video inputs labeled as "CH1" to "CH4" on the DVR. This connection provides the DVR with the surveillance video input.

Connect the Security Monitor

Connect the security monitor to the video output labeled as "VIDEO-OUT" on the DVR. The connection provides a video transmission path from the DVR to the security monitor.

Connect the Network Cable

Connect the network cable to the LAN port labeled as "器" on the DVR. This connects the DVR to the network.

Connect the USB mouse

Connect the USB mouse to the mouse port labeled as "D" on the DVR. This port only supports a USB mouse and not other devices.

Connect the IR Extender (Optional)

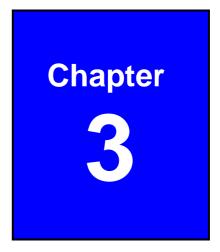
Connect the IR extender cable to the port labeled as "IR_ext" on the DVR. The cable is an optional device which serves as an IR controller extension.

Connect the LCD Monitor

Connect the LCD monitor to the VGA output labeled as "VGA-OUT" on the DVR. The DVR will transmit the video signal to the LCD monitor through this connection.

Connect the Power Adaptor

Connect the Power Adaptor to the DC jack labeled as "DC-IN 12V" on the DVR. Connect the power adaptor after all devices have been properly installed.



Getting Started

3.1 Turning on the DVR

The DVR is ready for running after all peripherals have been properly installed. Connect the power adaptor to turn the DVR on. The DVR may take a few second to startup.

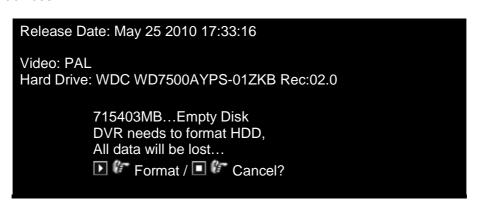
When the hard drive is detected by the system, it will ask whether or not you would like to format it. Refer to the conditions stated below to determine which course of action to take.

Format the hard drive when:

» It is the initial installation of the hard drive (1st time to install the HDD in the DVR).

Do not format the hard drive when:

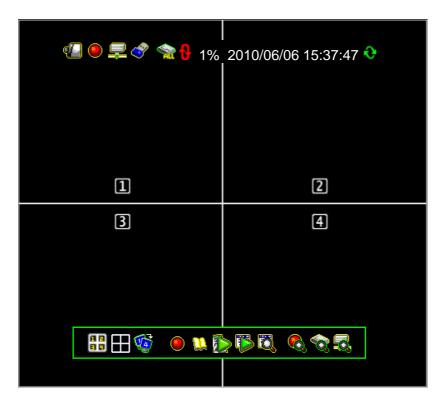
The hard drive has already been formatted by the DVR and not formatted by other devices.



The Home Screen is shown after the system is ready.

3.2 Home Screen

The Home Screen is the starting point for many functions and applications. It allows you to setup, access, and control the surveillance video data. You may think of this screen as a vantage point to give you instant access to video information and DVR functions.



3.2.1 State Bar Information

The State Bar displays the status and notification icons of the surveillance system.



Icon	Function	Icon	Function
4	Camera is working	X	No signal from camera
	Recording	\otimes	Stop recording
	Network connected		Network disconnected
ℰ	USB disk connected	€	Hard drive status
8	Hard drive overwrite enabled Channel display rotatio		Channel display rotation enabled
XX%	Percentage of hard drive already used		
2010/06/03	Current date		
15:37:47	Current time		

3.2.2 Control Bar Information

The Control Bar may be used to switch displays, open and setup channels and their related applications.



Icon	Function	Icon	Function
11 E	Load default channel display location		4-channel split view
	Auto channel rotation	(a)	Start recording
	Enter main menu	\otimes	Stop recording
D	Calengar Menu		Playback menu
	Event search		Recording information
1	Hard drive information		Network information

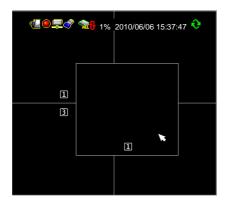
3.2.3 Drag and Drop Channel Swap

The Drag and Drop Channel Swap is an innovative and timesaving feature that makes swapping the channel displays highly convenient. Conventionally, channel displays can only be swapped by interchanging BNC connectors. With Drag and Drop Channel Swap, you can switch channel display positions using your mouse.

Drag and Drop Channel Reposition



» Move the cursor onto the channelsquare you would like to shift.



» Press left-button of the mouse and drag the channel-square to the new position.



- » Release the mouse button to drop the channel-square into new position.
- » System will keep the new channel display arrangement even if you reboot the DVR system.

Load Default Location

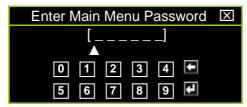
Press the icon "" to reset channel displays to their default locations.

3.3 Main Menu

Logging In for the First Time

Press like then enter the password to get into the main menu.

Default password is "123456".



Press **1** to exit the password dialog.

Main Menu Guideline



Icon	Name	Function
	DVR Power Supply	To reboot or shutdown the DVR system
	Channel Setup	Set the channel display, record, channel name and video color adjustment.
	Record Setup	Set the record schedule, video performance and quality
	Detector Setup	Set the motion and alarm mode.
	Authentication Setup	Set the login account, password and the authentication.
	System Setup	Set the status icons display, languages, date/time, rotation time, button beep tone, input device speed, and other relevant system features.
	Hardware Setup	Configures error message checks, hard drive information, overwrite settings, network settings and screen settings.
	Utility/Tools	These are used to format USB devices, to update firmware, and to restore system settings.
	Exit Main Menu	Exit the main menu.

3.4 Channel Setup

Press \square to enter the "Channel Setup". The screen will display the menu shown in the following illustration.



Press the icon to expand the menu.

Press the icon to collapse the menu.

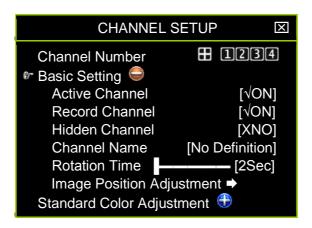
3.4.1 Channel Number

The Channel Number is used to designate to which channel or channels the settings will apply.

Press the icon ". The icon will turn orange and the settings will be applied to all channels.

Press the icons "11", "21", "14" to individually set each channel. The channel icon will turn green when selected and will turn to white when not selected.

3.4.2 Basic Settings



3.4.2.1 Active Channel

To set each channel or all channels are to record and to be displayed on the screen.

"ON" – Enables recording and on-screen display. The channel number icon turns to orange.

"OFF"- Disables recording and on-screen display. The channel number icon turns to gray.

3.4.2.2 Record Channel

To set one or all channels are record or not. The channel will be displayed on screen even when it is not recording.

"ON" - Record.

"OFF" - Not Record.

3.4.2.3 Hidden Channel

To set whether or not to display one or all channels on screen. The channel will continue to record regardless of it being hidden or not.

"ON" – Hide the channel on screen. The channel square turns to black and channel number icon turns to white.

"OFF"- Unhide the channel or channel is visible.

3.4.2.4 Channel Name

Designate a name for each channel. The channel name is limited to 24 characters.

Press the icon [Default Name] to select a channel name from the list defined by the system: Room, Hall, Door, Lift, Area, Floor, Entry, and Point.

Press the icon "1" to switch to big letters.

Press the icon "L" to enter the channel name. The channel name will appear on the channel square.

Or you can define the name by using buttons on IR remote:

 \wedge / \vee (\uparrow / \downarrow) – move up / down

(4/)): move left / right to the character would like to select and press " \downarrow " to select it.



3.4.2.5 Rotation Time

Sets the period (with a range of 2 to 30sec) of full screen display for each channel.

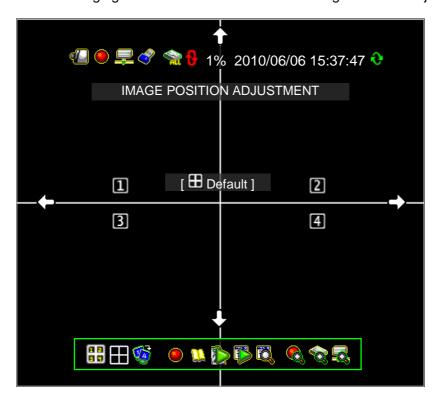
3.4.2.6 Image Position Adjustment

Adjusts the position of display on the monitor.

Select the icon "" to adjust the display position of all channels in the 4-split view at once.

Select the icon "1", "2", "3", "4" to individually set the image position of each channel.

The following figure will show when enter the "Image Position Adjustment":

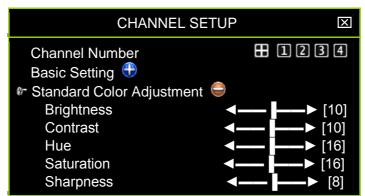


Adjust the image position by mouse left-click follow the direction change of cursor icon up/ down/ right/ left.

Press Default] to load or to restore to the default location.

3.4.3 Standard Color Adjustment

Adjusts the video color parameters for each channel or simultaneously for all channels.



- ✓ Brightness: Default is 10.
 - Press the button "◀ / ▶" to adjust the brightness from 1 to 20.
- ✓ Contrast: Default is 10.
 - Press the button "◀ / ▶" to adjust the contract from 1 to 20.
- ✓ Hue: Default is 16
 - Press the button "◀ / ▶" to adjust the hue from 1 to 32.
- ✓ **Saturation:** Default is 16.
 - Press the button "◀ / ▶" to adjust the saturation from 1 to 32.
- ✓ Sharpness: Default is 8.
 - Press the button "◀ / ▶" to adjust the sharpness from 1 to 16.

3.5 Record Setup

Press u to enter the "Record Setup".



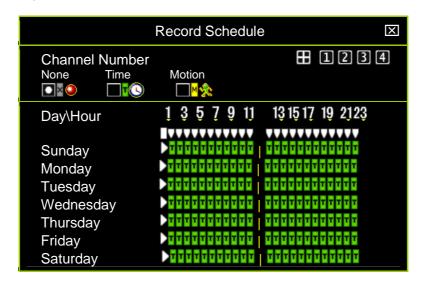
3.5.1 Auto Record

Auto Record is utilized to set the period (OFF, 10Sec, 20Sec, 30Sec, 40Sec, 50Sec or 60Sec) within which the DVR will automatically start recording. Default value is "30Sec". This feature is particularly useful in automatically re-starting your DVR recording in case of an abnormal shut down.

The DVR will not re-start recording when set this function "OFF".

3.5.2 Record Schedule

Record Schedule is a menu charting the recording schedule of a particular channel or all channels for the whole day (24 hours) and the entire week (7 days). Default setting is "Time Record".



3.5.2.1 Channel Number

Select the icon "••" to set the recording schedule for all channels. Select the icon "••", "••", "••", "••" to individually set the recording schedule of each channel.

3.5.2.2 Recording Mode Select

"

⟨ ⟨ ⟨ ⟨ ⟨ ⟩ ⟩): to move left and right

""

To select the mode

There are three recording mode for your choice:

None: Indicates that the channel is set to not record during this duration

Time: Indicates that the channel is set to continuously record during this duration

Motion: Indicates that the channel is set to motion-triggered recording during this duration

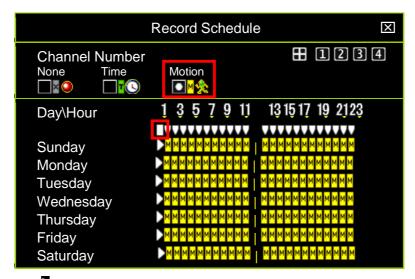
NOTE

When "Motion Mode" is set for the recording schedule. Remember to complete the "Motion Setup" at the main menu of "Detector Setup" - otherwise it will not be able to record during the period set on "Motion Mode".

Press the icon "\overline{\Pi}" to set the whole week (7 days) and the whole day (24 hours) to the same mode

The following example shows that the entire week (all 7 days) and the whole day (all 24 hours) are set to the "**Motion**" recording mode.

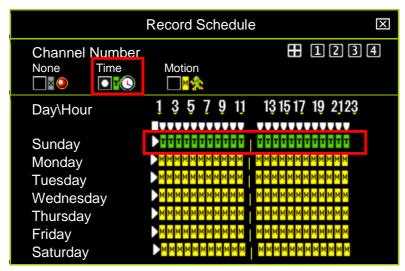
Select "Motion" recording mode, press the icon "\overline{\sigma}" and press ""\vert_".



Press the icon "2" (located after the name of each day) to set every hour of an entire day to operate in the same mode.

The following example shows that on Sunday, the whole day is set to the "**Time**" recording mode.

Select "Time" recording mode, press the icon "□" and press ""¬".

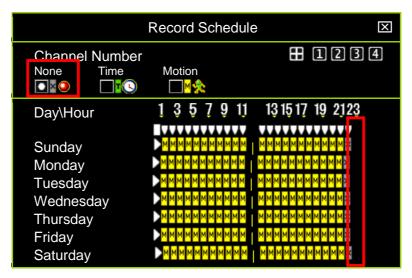


Press the icon "\overline{1}" to set the same mode for a specified time every day.

The following example shows that from 23:00 to 24:00 (11:00pm to 12:00mn) everyday there is no recording (set to "**None**" recording mode).

Select "None" recording mode, press the icon "□" and press ""

"."

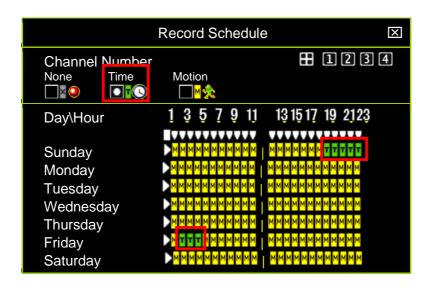


You can also specifically set the recording mode for a particular time and day.

The following example shows that on Sunday, from 19:00 to 24:00 (7:00pm to 12:00mn), and on Friday, from 2:00 to 4:00 (2:00am to 4:00am), are set to the "**Time**" recording mode.

Select the recording mode first. Move the cursor and click the icon "a", "t", "to change mode on the timetable.

Select "**Time**" recording mode, move the cursor and click the period of icons "" change to "not and press ""...".



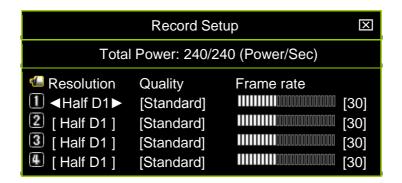
3.5.3 Total Power

Total Power: 240/240 (Power / Sec)

It shows the number of recording power that has been allocated and the total number of recording power.



To distribute the recording power into four channels by click the total power (as upper red border).



Video Resolution, Quality and Frame Rate Setting for each Channel

Resolution:

Press the button "◀ / ▶" to adjust the resolution from CIF, Half D1 and D1 for individual channel.

Quality:

Press the button "◀ / ▶" to adjust the resolution from Lowest, Low, Standard, High and Highest for individual channel.

Frame rate:

Press the button "◀ / ▶" to adjust the frame rate from 0 to 30 for individual channel. There is equal to not recording when setup the frame rate to 0.

3.5.4 Auto Settings Adjustment

This function can automatically allocate the recording power under the selected record resolution.

When all the channels are set at the same resolution, the "Auto Settings Adjustment" can automatically allocate the frame rate to every channel.

When the setting applies to a specific channel or to specific channels with a particular resolution, video quality or frame rate the "**Auto Settings Adjustment**" feature automatically allocates the remaining frame rate among the other channels.

3.5.5 Channel Recording Setup

The Channel Recording Setup is used to adjust the resolution, quality, frame rate and performance gains of recording.

3.5.5.1 Channel Number

Select the icon "I" to adjust the settings of all channels at one time. Select the icon "I", "I", "I", "I" to adjust the setting of each channel.

3.5.5.2 Recording Resolution

Select the recording resolution for each or all channels as:

- » D1: 704*480 / 60fps (NTSC); 704*576 / 50fps (PAL)
- » Half D1: 704*240 / 120fps (NTSC); 704*288 (PAL) (Default)
- » CIF: 352*240 / 120fps (NTSC); 352*288 (PAL)

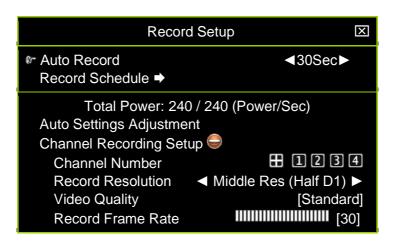
3.5.5.3 Video Quality

Video image quality settings can be Highest, High, Standard, Low, and Lowest. Default is Standard.

Higher video quality provides a much clearer image for playback but can utilize a much larger hard drive space with a larger file size.

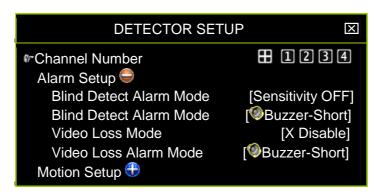
3.5.5.4 Record Frame Rate

The recording frame rate for each or all channels may be set from 0~30 fps. If the frame rate is set to 0 it means that it will not be recording.



3.6 Detector Setup

Detector Setup configures the alarm and motion mode for each or all channels.



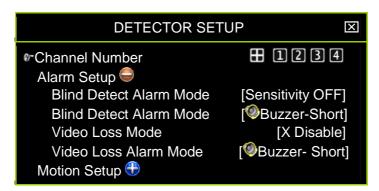
3.6.1 Channel Number

To sets the detection mode by each or all channels.

Select the icon "1" to setup the alarm and motion mode of all channels at one time. Select the icon "1", "2", "1", "4" to setup for the each channel.

3.6.2 Alarm Setup

Alarm Setup is accessed to configure the alarm mode of each channel, individually, or for all channels, simultaneously.



3.6.2.1 Blind Detect Mode

The Blind Detect Mode detects any abnormal video input when the security camera is situated in covered or shady areas or in areas with direct exposure to intense light.

Choose any of the following settings to adjust the sensitivity of blind detection:

"Sensitivity OFF": No sensitivity "Sensitivity Low": Low sensitive level

- "Sensitivity Normal": Normal sensitive level
- "Sensitivity High": High sensitivity level
- "Sensitivity Highest": Highest sensitive level

3.6.2.2 Blind Detect Alarm Mode

Select the alarm mode when the Blind Detect Mode is triggered.

"Mute": No beep whatever loss of light or not.

" Buzzer-Short": Beep shortly by buzzer on main board.

" Buzzer-Long": Beep long by buzzer on main board.

3.6.2.3 Video Loss Mode

The Video Loss Mode is for detecting the loss of the camera video input.

3.6.2.4 Video Loss Alarm Mode

Select the alarm mode when the Video Loss Mode is triggered.

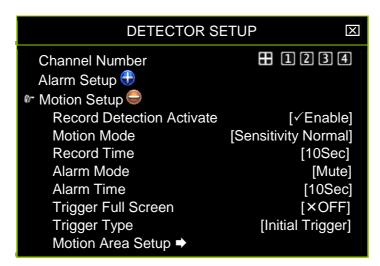
"Mute": No beep whatever video loss or not.

" Buzzer-Short": Beep shortly by buzzer on main board.

" Buzzer-Long": Beep long by buzzer on main board.

3.6.3 Motion Setup

Motion Setup is accessed to configure the motion mode for each channel.



NOTE

Remember to setup the motion mode period on "Record Schedule" at the main menu of "Record Setup" after completing "Motion Setup". Otherwise, the system will be recording in the default schedule recording mode.

3.6.3.1 Record Detection Activate

This feature makes the whole setting of motion setup is efficacious even the DVR under the "Time Recording" mode.

✓ Enable: Activates record detection for motion (default) × Disable: Deactivates record detection for motion

NOTE

Remember to specify the area you would like monitor using the "Motion Area Setup" screen. Click on a particular channel you would like to set and then click on Motion Area Setup to define the particular area you would like to monitor.

3.6.3.2 Motion Mode

Choose any of the following settings to adjust the motion sensitivity parameter:

- "Sensitive OFF": No sensitivity
- "Sensitive Low": Low sensitive level
- "Sensitive Normal": Normal sensitive level
- "Sensitive High": High sensitive level
- "Sensitive Highest": The highest sensitive level

3.6.3.3 Record Time

Set the recording time when the Motion Mode is triggered.

The recording time as 5sec, 10sec, 15sec, 20sec, 25sec, 30sec, 45sec, 60sec, 90sec, 120sec, 150sec or 180sec.

3.6.3.4 Alarm Mode

Select the alarm mode when Motion Mode is triggered.

- "Mute": No beep whatever motion is detected or not.
- "Buzzer-Short": Beep shortly by buzzer on main board.
- " Buzzer-Long": Beep long by buzzer on main board.

3.6.3.5 Alarm Time

The Alarm Time is the duration of the beep and may be set to: "Nonstop" (no stop), 5sec, 10sec, 15sec, 20sec, 25sec, 30sec, 35sec, 40sec, 45sec, 50sec, 55sec or 60sec.

3.6.3.6 Trigger Full Screen

Trigger Full Screen is the duration of the of full-screen display when a channel is triggered. This may be set to a period between 1 to 30 seconds.

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

3.6.3.7 Trigger Type

There are two trigger types: Initial Trigger and Continuous Trigger.

Initial Trigger

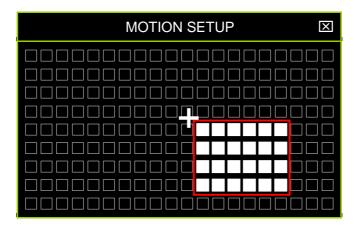
When channel has been triggered, the triggering event will be displayed on full screen for the duration of the setting period. During that period, this channel will ignore any other triggering events.

Continuous Trigger:

When channel has been triggered, the triggering event will be displayed on full screen for the duration of the setting period. The channel is, however, still actively monitoring during that period. Should there be a new triggering event, this channel will display the more recent event and restart the display period.

3.6.3.8 Motion Area Setup

The Motion Setup allows the user to block multi areas on screen for every single channel as motion detection area. Use the mouse or the $\blacktriangle(\uparrow)$, $\blacktriangledown(\downarrow)$, $\blacktriangleleft(\blacktriangleleft)$, $\blacktriangleright\blacktriangleright(\blacktriangleright)$ buttons to move the area. After positioning, press " \square " or click right button of the mouse to save it.



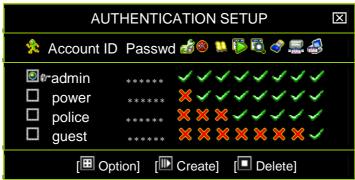
CAUTION

There will be no response in Motion Mode when the Motion Area Setup has not been completed.

3.7 Authentication Setup

Authentication Setup manages the authorization for accounts, passwords, and permissions.

Click the following icons for authority management



"" Indicates an active account "M" Disables access to function

Click the icons for setting:

"Indicates a disabled account

" Permits access to function

"D" Creates a new account

"Deletes an account Account ID: Enter characters as the account ID

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

Click " Option] for authority management of expire date setup



Click the icons for setting:

"X" Never Expire

" Sets the expire date

Click "[Option] for authority management of channel monitoring setup



Click the icons for setting:

"I": Enable the account to monitor all channels. The icon turns orange when enabled.

"1" "2" "1": Enable the account to monitor the specific channels. The icon turns green when enabled.

Disabled accounts are indicated by white icons "" "" "" "". "".

NOTE

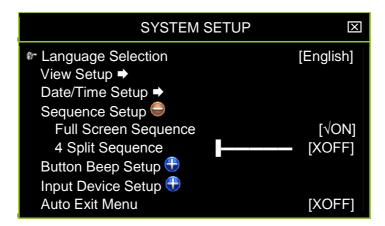
Disable all accounts means that access is available to all users without a password.

NOTE

Disable all users to access the specific function means that all users can access only specific functions.

3.8 System Setup

System Setup sets the Language, Viewing, Date/Time, Sequence, Button Beep, Input Device, and other relevant parameters.

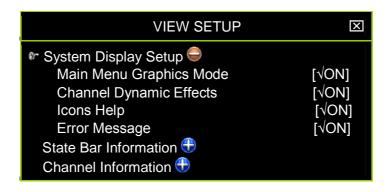


3.8.1 Language Selection

Language Selection is used to select the language for the on-screen display (OSD) Menu.

3.8.2 View Setup

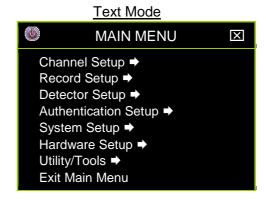
View Setup is for choosing whether to display certain illustrations and DVR information or not.



3.8.2.1 Main Menu Graphics Mode

Sets the main menu displayed by graphic icons or text mode.





3.8.2.2 Channel Dynamic Effects

Enables or disables the channel moving effects during channel dynamic drag and drop.

3.8.2.3 Icon Help

Enables or disables the help icon text description to appear when the mouse hovers over the icons.

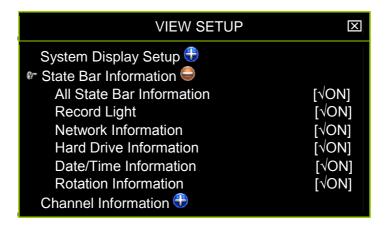


3.8.2.4 Error Message

Enables or disables system to show the log when an error occurs.

3.8.2.5 State Bar Information

Determines how system status information is set and shown.





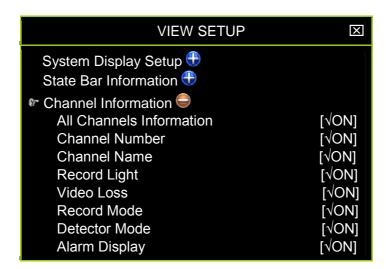
Recording LightHard Drive InformationRotation Information

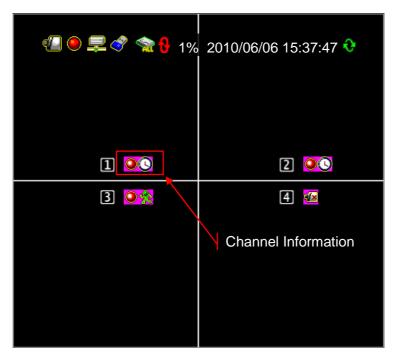
Network Information

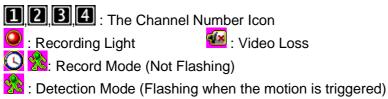
2010/06/06 15:37:47: Date/Time Information

3.8.2.6 Channel Information

Determines how channel information is set and shown.

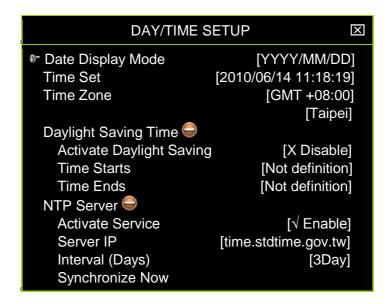






3.8.3 Date/Time Setup

Date/Time Setup Menu sets relevant information on date and time.



3.8.3.1 Date Display Mode

Date Display Mode is used to choose a date format for the state information. The allowable formats are YYYY/MM/DD, DD/MM/YYYY, and MM/DD/YYYY.

3.8.3.2 Time Set

"Time Set" is for adjusting the date and time.



A / Y (↑ / ↓): Up / Down – Change the number
 4/ > (⁴ / ▶): Move left/right to the character that needs to be changed
 □ : Exit after confirmed setting

3.8.3.3 Time Zone

"Time Zone" is for adjusting time zone and location.

3.8.3.4 Daylight Saving Time

"Daylight Saving Time" is for adjusting the DST settings (for countries where it is applicable).

3.8.3.4.1 Activate Daylight Saving

"Activate Daylight Saving" enables or disables the daylight saving mode.

3.8.3.4.2 Time Starts

"Time Starts" indicates the start date of daylight saving time. The user can set the month, week number, day, and hour.



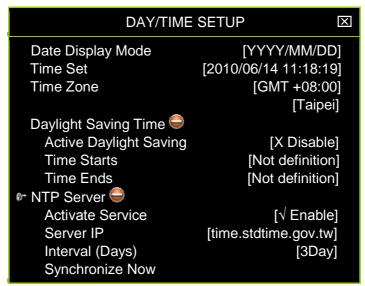
3.8.3.4.3 Time Ends

"Time Ends" indicates the end date of daylight saving time. The user can set the month, week number, day, and hour.



3.8.3.5 NTP Server

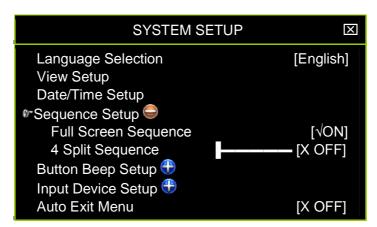
NTP Server allows for the synchronization of the day/ time settings with the NTP server through internet.



- ✓ Activate Service:
 - "✓ Enable"- Enable Synchronization
 - " X Disable"- Disable Synchronization
- ✓ **Server IP:** The IP address of NTP server (Maximum in 24 characters)
- ✓ Interval (Days): The frequency (number of days) of when the server is synchronized.
- ✓ Synchronize Now: Start synchronizing with NTP server now

3.8.4 Sequence Setup

The Sequence Setup Menu is for setting the channel rotation sequence period.



Full Screen Sequence

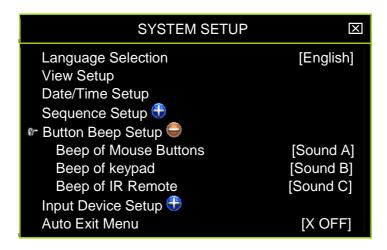
Full Screen Sequence enables or disables the full screen rotation period.

4 Split Sequence

4 Split Sequence enables or disables the 4 split display rotation period.

3.8.5 Button Beep Setup

The Button Beep Setup configures the system button beep for the mouse, keypad, and IR remote by the sound type of either "Mute", "Type A", "Type B", "Type C".

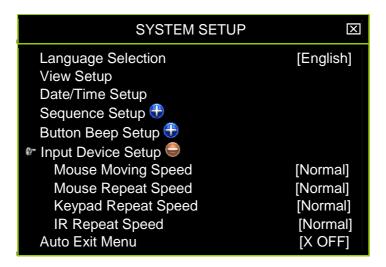


NOTE

Keypad Beep is available for models equipped with keypad.

3.8.6 Input Device Setup

Input Device Setup is used to set the speed of the following input devices: mouse, keypad and IR Remote.



NOTE

Keypad repeat speed is available for models equipped with keypad.

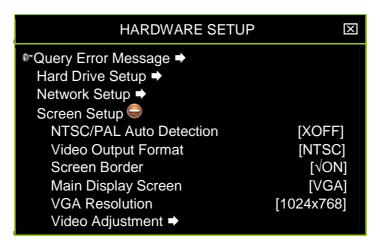
3.8.7 Auto Exit Menu

The Auto Exit Menu configures the menu to automatically exit after a specified period.

Set Auto Exit Menu to "OFF" for manual exit. Otherwise, the menu will exit after 10, 20, 30, 40, 50 or 60 seconds, depending on the set time.

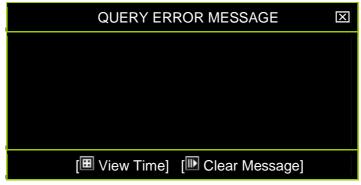
3.9 Hardware Setup

Hardware Setup is the menu for configuring hardware parameters including error message, hard drive, network and screen display.



3.9.1 Query Error Message

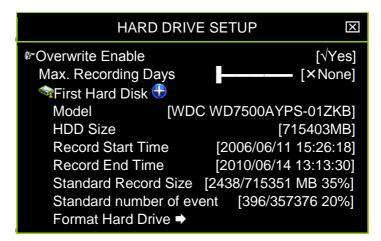
The Query Error Message window shows the all error messages.



- [View Time]: Sort error messages by time of occurrence.
- [Clear Message]: Clear all error logs.

3.9.2 Hard Drive Setup

The Hard Drive Setup menu displays hard disk information and allows the user to enable the HDD overwriting.



3.9.2.1 Overwrite enable

"YES": The hard drive automatically writes over the oldest video on the hard drive when it runs out of space for recording.

"X NO": Recording will stop when the hard drive is full.

3.9.2.2 Max. Recording Days

This function enables to specify the days of recording data which is retained in the hard drive. It will be required to format the hard drive once you change the limited days. Those expired recording data will be not found during event search.

You can set the maximum recording days as from 1 to 30 or "None" not to limit.

NOTE

Please remember to check the original recording data is needed or not before format the hard drive.

3.9.2.3 First Hard Disk

- Model: Automatically displays the hard drive model number
- **HDD Size:** Automatically displays the hard drive size
- Max. Days Size: Displays the days of recording data will be retain in the hard drive
- Record Start Time: Displays the day and time when the hard drive starts storing recorded data
- Record End Time: Displays the day and time of the last recording on the hard drive
- **Standard Record Size:** The total hard drive capacity in megabyte (MB) and the ratio of using space.
- **Standard Number of event**: Total number of record events / total capacity of events and the ratio of using space.

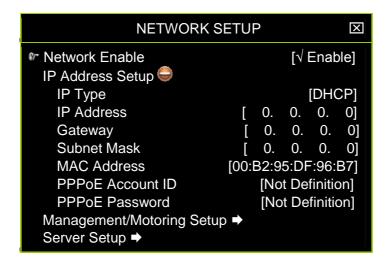
3.9.2.4 Format Hard Drive

You cannot format the hard drive when the system is running in recording mode. When you attempt to do so, the following warning message will appear on the screen.

System is Recording
Hard Disk Format is Prohibited.

3.9.3 Network Setup

Network Setup is for adjusting network configurations.



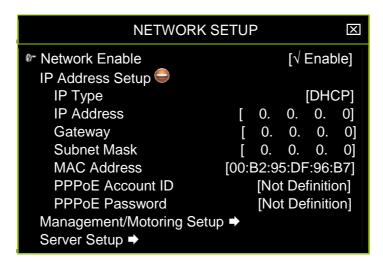
3.9.3.1 Network Enable

"✓ Enable": Network may be used

"X Disable": Network may not be used

3.9.3.2 IP Address Setup

The IP address acts as a locator or an identification number to enable a device on a TCP/IP network to locate other devices and interact with them. Certain parameters need to be set through IP Address Setup to ensure proper network communication.



IP Type

There are two options for IP type: Static IP address and Dynamic IP address (DHCP and PPPoE).

- Static IP Address: User must manually define a static IP address. Contact the network administrator for this information.
- **DHCP:** System gets the IP address from the router or DHCP server. Contact the network administrator for this information.
- PPPoE: The Point-to-Point Protocol over Ethernet (PPPoE) is used mainly with DSL services where individual users connect to the DSL modem over Ethernet and in plain Metro Ethernet networks.

 Please input the PPPoE Account ID and Password provided by the ISP.

 (Note: Account ID maximum in 24 characters: Password maximum in 16).
 - (Note: Account ID maximum in 24 characters; Password maximum in 16 characters)
- GATEWAY: Define gateway IP address. Contact the network administrator for this information.
- SUBNET MASK: A sub network, or subnet, is a logically visible, distinctly addressed part of a single Internet Protocol network. Contact the network administrator for this information.
- MAC Address: MAC address is a unique identifier assigned to most network adapters or network interface cards (NICs) by the manufacturer for identification. It has been set at dedicated address even reset the DVR.

NOTE

You must plan on the network structure if the MIS or Network Administrator manages the network.

Consult with the MIS or Network Administrator for the IP address segment and port-forwarding rule for the DVR network setup.

3.9.3.3 Management / Monitoring Setup

The Management/Monitoring Setup menu addresses the management and monitoring service for remote DVR control and viewing from the internet (i.e. Internet Explorer) browser and PC Viewer.



Management Service

 Activate Service: Enables or disables the management service for allowing remote control from IE or PC Viewer.

Monitoring Service

- Activate Service: Enables or disables the monitoring service for allowing remote viewing from IE or PC Viewer.
- Port: The default port number is "8000" for DVR video and audio transmission.
- **Video Transmission Quality:** Select the remote video transmission quality from Lowest, Low, Standard, High, and Highest.

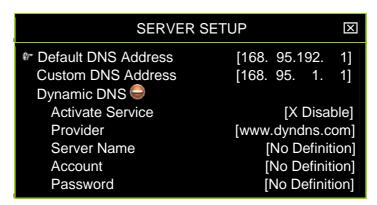
NOTE

You must plan on the network structure if the MIS or Network Administrator manages the network.

You should consult with the MIS or Network Administrator for the IP address segment and port-forwarding rule for the DVR network setup.

3.9.3.4 Server Setup

Configure the DNS server.



Default DNS Address

The Domain Name System (DNS) translates hostnames to IP addresses (default setting). If there is no DNS address setting or fail, DVR will go for Default DNS Address.

Custom DNS Address

The Domain Name system (DNS) translate hostnames to IP addresses (customer setting).

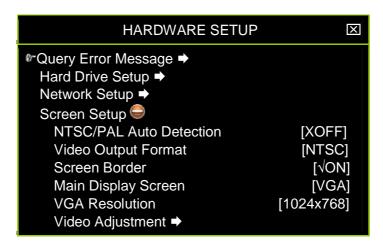
Dynamic DNS

Dynamic DNS is a system that allows the domain name data held in a name server to be updated in real time.

- "Service Active": Enable the Dynamic DNS service.
- "Provider": The web site / IP Address of Dynamic DNS provider
- "Server Name": Define a name of Dynamic DNS (Maximum in 24 characters)
- "Account": The account name of Dynamic DNS (Maximum in 20 characters)
- "Password": Password for Dynamic DNS Please refer to DYNDNS Service (Maximum in 12 characters)

3.9.4 Screen Setup

Adjusts the video format and resolution of the display device.



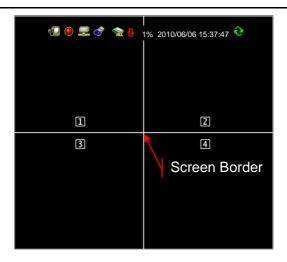
NTSC/PAL Auto Detection

The system will automatically detect the video format NTSC/PAL from the video source, i.e. security cameras.

Video Output Format

The selection of video output format NTSC or PAL is available while the "NTSC/PAL Auto Detection" function is disabled.

Screen Border



"✓ON": To show the border

"X OFF": Not to show the screen border.

Main Display Screen

Provides options to connect the main display screen to either a BNC or VGA port (Labeled as "VIDEO-OUT").

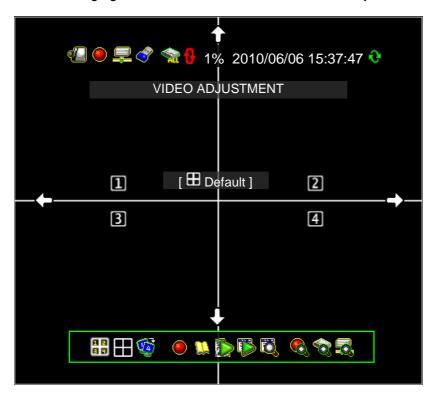
VGA Resolution

Sets the resolution as 640x480, 800x600, 1024x768 or 1280x1024.

Video Adjustment

Adjusts the position of main display on the monitor when connect the main display screen to BNC port (Labeled as "VIDEO-OUT").

The following figure will show when enter the "Video Adjustment":

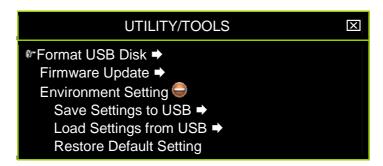


Adjust the image position by using the mouse right-click button to follow the direction change of cursor icon ♠ up / ♣ down / ➡ right/ ♠ left.

Press ➡ Default] to load the default location.

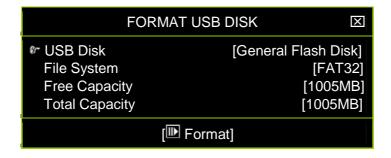
3.10 Utility/Tools

These tools help you to format the USB dongle, to update firmware, to export event logs and to load or restore the environment configuration.



3.10.1 Format USB Disk

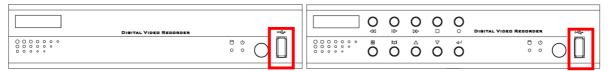
The system supports USB pen drives and USB card readers with the FAT32 device file format. Please format the drive (using the file format function) if it is not in FAT32 otherwise an error will occur during backup. The file format function helps you format USB device to improve its compatibility with the DVR for storing video data into your USB device.



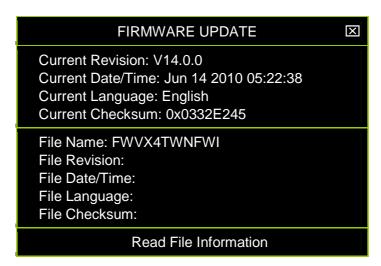
3.10.2 Firmware Update

The firmware is updated by using a USB pen drive that contains the latest firmware file. Attach the external USB disk into the USB port on DVR front panel.



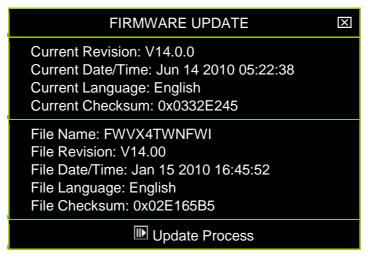


After the USB disk is attached to the port, the message "Read file Information" will appear on the bottom line.

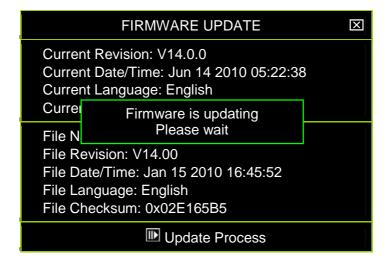


If there is a mistake or missing file on the pen drive, it will show: <u>File not found or Disk Error</u> on the bottom line. Please check USB disk or file. Re-attach disk to the port.

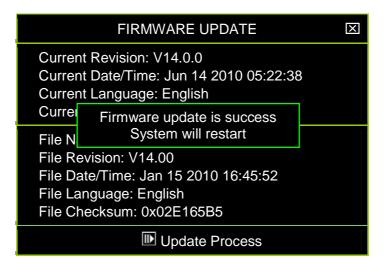
After reading the firmware is displayed. Click this button on begin the upgrade.



When DVR is updating the firmware, it shows "Firmware is updating, please wait".

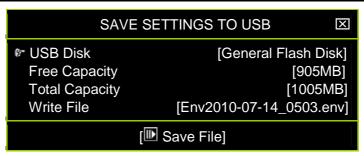


After firmware update is completed, <u>Firmware update is success</u>, <u>System will</u> <u>restart ----</u>" is displayed, and then the system restarts.



3.10.3 Environmental Setting

Save Settings to USB

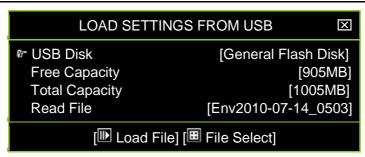


This tool can help you duplicate the system environment configuration and store it on the USB device. You can use this to swiftly deploy your other DVR systems which will be using the same configuration.

It will show the following message after file is duplicated successfully.



Load Settings from USB



This tool can help you load the system environment configuration from the USB device.

Click [File select] to select the file you would like to load.



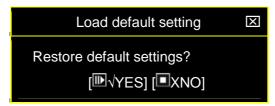
Click [Load File] to load the selected file from USB device. It will show the following message:



Restore Default Setting

This command resets the system to its default settings.





Select "YES" to load the default setting. After which, the system will reboot.

Reset completed,
System will restart...

3.11 Exit Main Menu

Provides options to save or discard changes before exiting.



3.11.1 Exit & Save Changes

All changes are saved before exiting from the menu.

Data Saving
Please Wait...

3.11.2 Exit & Discard Changes

All changes are ignored (The changes will not be saved and will take no effect.) before exiting from the menu. Confirm with "Yes" or go back to the menu by choosing "No".





Playback and Data Backup

4.1 Calendar Menu

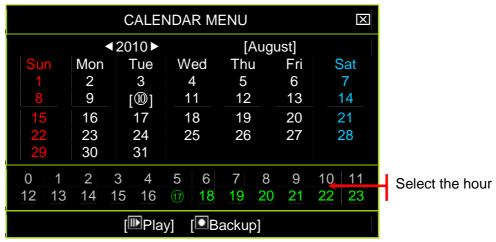
Press "
→ " and "
→" buttons or click the icon "
→" to enter "Calendar Menu".

The calendar menu helps you to playback by specific hour.

First, select the year and month by press "◄" or "▶" buttons or onscreen icons.

Second, select the date and hour when the number turns to around with circle "0".

Then, press [Play] to playback the recording video.



You will see the control bar during video playback as following figure:



This bar allows playback control by following operation method:

PIP View	Displays real-time video and playback video simultaneously in PIP (picture in picture) view.
4 Split View	Displays playback video in 4-split view.
■ Previous Segment	Plays back the recorded video by one hour
Rewind	Plays backward faster
■ Stop	Stops the video playback
Pause	Pauses the video playback
Play	Starts the video playback
Fast Forward	Plays forward faster

Next Segment	Plays forward the recorded video by one hour
Calendar Menu	Goes back to Calendar Menu
Play Menu	Goes back to Play Menu
Event Search	Goes to Search Menu
Play Bar	Shifts the bar to select the playback time from the recorded video data you would like to review.

4.2 Play Menu

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



- Channel Number: select the channel to playback
- Play Begin Time: specify the beginning of the playback
- Play End Time: specify the end time of the playback

The information below it shows the available recorded events.

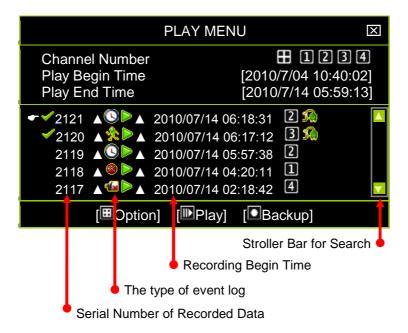
To click [Option] to switching the window as follows:



[Play]: Start playing the recorded data. After the data has been played, it will show

[Dackup]: To back-up the recorded data. Please refer to the "Backup" section

Commands and Recorded Data status:



- S/N of Recorded Data: Series Number of recorded data provide by system
- Recording Configuration
 - o ☐/☐: Scrolls up/down one page of recorded data in the list window.
 - o Shows the recording mode
 - The data can be played. (This icon doesn't show if no video recording is available.)
- Recording Time: The date / time of recorded data.
- Status
 - ✓: The recorded video data has been played.
 - In the second of the second of
- **Searching:** The vertical scroll bar for search the recorded data by mouse.

4.3 Event Search

Press "♠" (or "♠") button or icon to enter Event Search Menu.



- Channel Number: Specifies the channels to search
- **Filter Type:** Filters events by type "General Event", "Record Event", "Hardware Event", "Warning Event", and "All Events"
- Filter Time Setup:



- Active Filter Time: Enables/disables filter time of event
- Filter Begin Time: Specifies the beginning time of event filter
- Filter End Time: Specifies the end time of event filter
- Time Reset Range: Resets the event search time period according to all effective events as recorded



- [**Doption**]: The top frame of the search menu switches to event content display
- [Play]: Starts to play the event that has been selected
- [Dackup]: Creates a backup file for the event that has been selected



- Event Type: Shows the name of the selected event
- Triggered Channel: Shows the triggered channel
- Record End Time: Shows the recording end time.

4.4 Data Backup

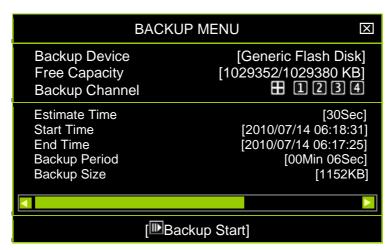
The DVR supports data backup by USB 2.0 device (Support the pen drive and card reader) on the front panel and CDRW/DVDRW



Press the "▶" (or "II▶") button to enter the "Play Menu".



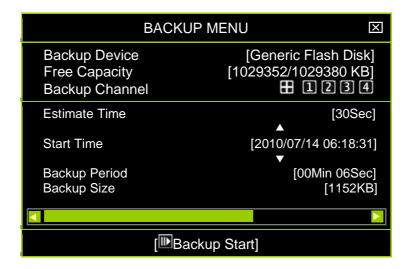
Use the " $\wedge \vee (\uparrow / \lor)$ " buttons to select which data to backup. Press [LBackup Start] to enter the "Backup Menu".

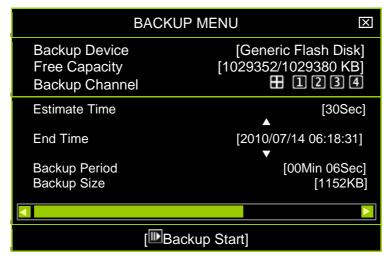


Disk information is shown on the top portion of the screen and recorded data information is shown in the bottom portion.

- Backup Device: shows the backup device where data will be stored for backup.
- Free Capacity: shows the amount of free space on the backup device.
- Backup channel: selects single or multi channels you would like to backup.

You can change the period of recorded data for backup by setting the "Start Time" and "End Time".





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

The "Start Time" and "End Time" of the selected video record data will be shown. Press [Backup Start], it starts to backup data into USB 2.0 device.

There is a PVF video file "2010-08-11_1754.pvf" stored into the USB device. You can playback this video file on the software "PC Viewer".

Please reference to the chapter of "PC Viewer and Web Browser Viewer".

CDRW/DVDRW backup



The DVR support the data backup by DVDRW.

You can change the time period of recorded data for backup by setting the "Start Time" and "End Time" and select one specified channel, then please press [DEject] to put the DVD into DVDRW.

All the time setting is the same as USB backup.

Chapter 5

System Information

5.1 Record Information

Displays the current states of the DVR system.



Click " to show record information as following window:



The items for record information

" Channel Number

"Recording Resolution

"Necording Mode

" Latest Recording Frame Rate

" Video Loss

"M" Recording Mode

"

Buzzer Alarm

The information icon

"1234" Channel Number

"CIF Recording Resolution

"D1 Recording Resolution

"Notion Record Mode

"10" Record Time Count Down

" Buzzer Alarm Mode

"W" Video Loss

"Half D1 Recording Resolution

"Ime Record Mode

"
Not Recording / Recording

"30" Frame Rate in Use

5.2 Hard Drive Information

The Hard Drive Setup menu displays the hard drive status.



- Model: Displays the hard drive model number.
- HDD Size: Displays the hard drive size.
- Max. Recording Days: Displays the days of recording data will be retain in the hard drive.
- Record Start Time: Displays the day and time when the hard drive starts storing recorded data
- Record End Time: Displays the day and time of the last recording on the hard drive
- **Standard Record Size:** Displays the total hard drive capacity in megabyte (MB) and the ratio of using space.
- **Standard Number of event**: Displays the number of record events / total capacity of events and the ratio of using space.

5.3 Network Information

Displays the current state of network connection.

```
NETWORK SETUP
                                           X
                                   [DHCP]
IP Type
IP Address
                          [192.168. 11.198]
IP Status
                             [Connected]
Login Status
 See Login Count
                                        [0]
Network Service
 Management Service
                                 [√ Enable]
                                 [√ Enable]
 Monitoring Service
 Dynamic DNS
                                 [X Disable]
```

Network Information

- » "IP Type" shows the network connection type.
- » "IP Address" shows the current IP address.
- » "IP Status" shows the network is connected or not connected.
- » "Login Count" shows how many connections from remote site.
- » "Management Service" shows enable or disable the management service for allowing remote control from IE or PC Viewer
- » "Monitoring Service" shows enable or disable the management service for allowing remote viewing from IE or PC Viewer
- » "Dynamic DNS" shows enable or disable the Dynamic DNS service.

Chapter 6

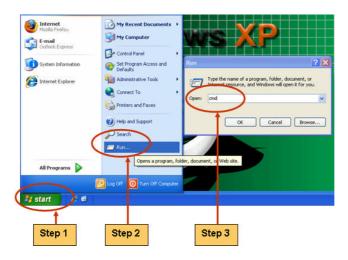
LAN & Online Viewing Setup

6.1 PC Connection through Local Area Network

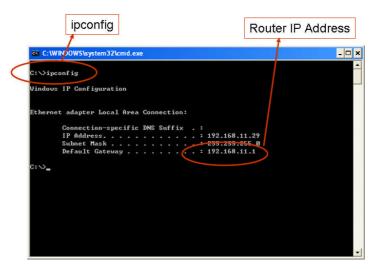
Here is an example that shows how to find the basic network information from the local area network (hub).

Search Router IP Address

Please click "Start" and then "Run" option under Windows. Please enter "CMD" and then "OK"



Please enter "ipconfig" on DOS prompt, and then record the Address Number of <u>Default Gateway</u> as shown: It is the Router's IP Address.



Find out your DVR IP address

Now we known the Router IP address is 192.168.11.1.

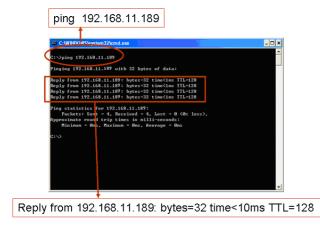
Generally the usable IP Address is from 192.168.11.2~192.168.11.253.

The suggested IP Address available for assigned to other network devices is from 192.168.11.160 to 192.168.11.199.

Find out the available IP address

Please enter "ping 192.168.11.189" on DOS prompt (as shown in the following figure).

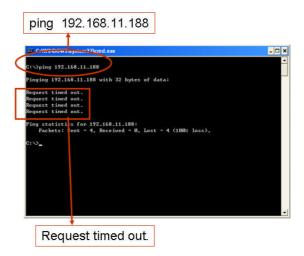
When "Reply from 192.168.11.189: bytes=32 time<10ms TTL=128" appears, as in the following illustration, that means this IP Address "192.168.11.189" is occupied by another network device.



Please try to find another available IP address.

Enter "ping 192.168.11.188" on DOS prompt.

If "Request timed out" appears, it means this IP address is not being used now and can be used for the DVR.



Setup DVR IP Address

When you find a usable IP address, go back to DVR menu: "Network Setup" to enter IP address.

IP ADDRESS: Enter the DVR's address [192.168.011.188]

GATEWAY: Enter Router IP Address[192.168.011.001]

Subnet MASK: 255.255.255.0

NOTE

You must plan on the network structure if the MIS or Network Administrator manages the network.

You should consult with the MIS or Network Administrator for the IP address segment and port-forwarding rule for the DVR network setup.

6.2 DynDNS Service Overview

For DVR you can only set a static IP address. It does not support the dynamic IP. If you have to or prefer to use dynamic IP, then it is recommend to use a DYNDNS service.

DYNDNS is a service the maps internet domain names to IP address and works with dynamic IP address (assigned by ISP server).

Remark: A router is needed as the interface between PC and DVR when DVR is under internal network environment.

6.2.1 Register with DynDNS

There are three suggestions for DYNDNS:

www.no-ip.com, www.changeip.com and www.dyndns.com

The following will use DYNDNS website: http://www.dyndns.com as example.

If you have no account, create one when you access DynDNS (DYNDNS service) website.

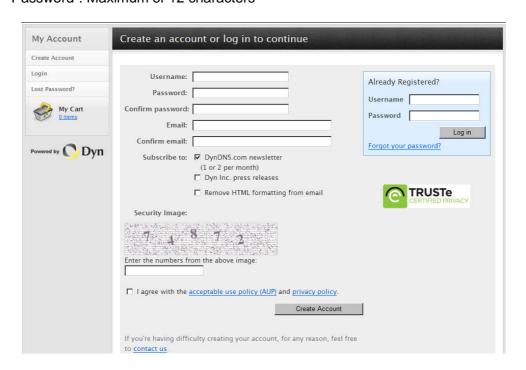


6.2.2 Create DynDNS Account

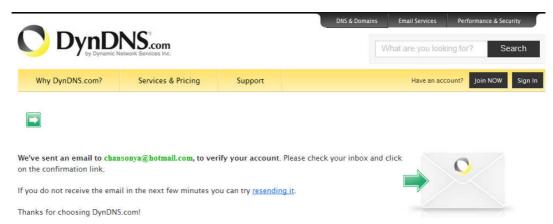
Click the <u>Create Account</u>, and then start to create your own DynDNS Account and fill out all the blanks for account's application as following:

Please refer below for the maximum number of characters acceptable for the DVR:

"Server Name": Maximum of 24 characters "Account": Maximum of 20 characters "Password": Maximum of 12 characters



After you click "Create Account", it shows the message for verifying the account.



DynDNS will create a new account for you and send you an e-mail to the address you provided. It needs to confirm your account within 48 hours after receiving the e-mail or it will automatically delete your account.

Your DynDNS.com Account 'chansonya' has been created. You need to visit the confirmation address below within 48 hours to complete the account creation process:

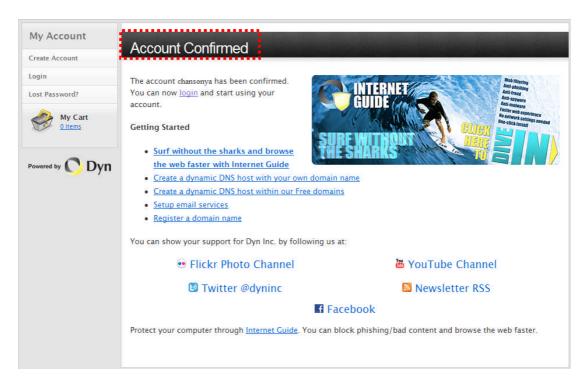
https://www.dyndns.com/account/confirm/FpCllzZRMo60VWMSx4keXQ

Our basic service offerings are free, but they are supported by our paid services. See http://www.dyndns.com/services/ for a full listing of all of our available services.

If you did not sign up for this account, this will be the only communication you will receive. All non-confirmed accounts are automatically deleted after 48 hours, and no addresses are kept on file. We apologize for any inconvenience this correspondence may have caused, and we assure you that it was only sent at the request of someone visiting our site requesting an account.

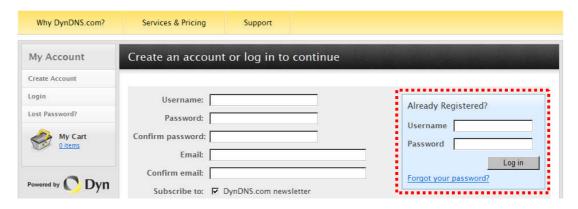
Sincerely, The DynDNS.com Team Dynamic Network Services Inc.

Just click the first link to confirm the account.

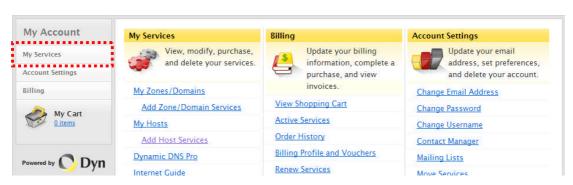


6.2.3 Login and Host Service

Login by entering the Username and Password of your account.



Then, go to "My Service" to get a host name



Double click "Add New Hostname" as following:

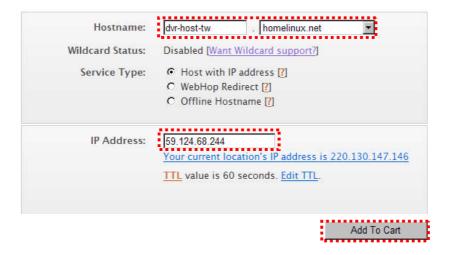


Specify the Hostname for DYNDNS IP which will be applied to the DVR's DYNDNS setting.

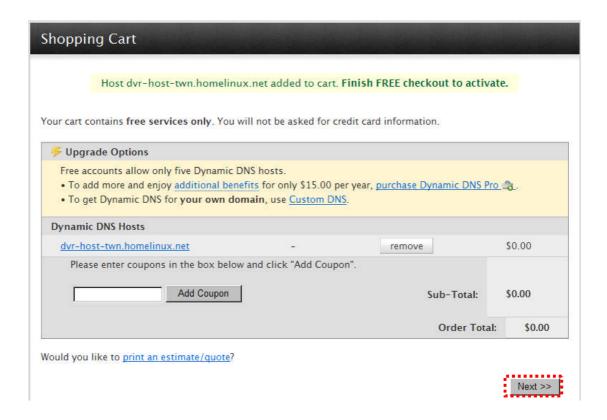
We take dvr-host-tw.homelinux.net as an example, and click "Add to Cart"



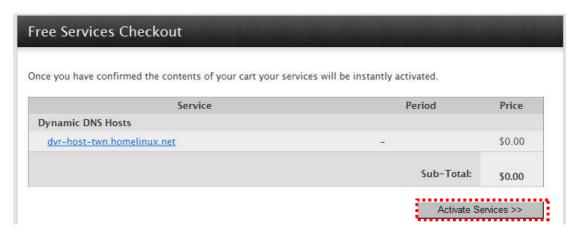
Note: You currently don't have any active <u>Dynamic DNS Pro</u> in your account. You cannot use some of our Host Service features. Paying for an Dynamic DNS Pro will make this form fully functional and will add several other features.



The Dynamic DNS Hosts service is sufficient and is provided for free. Press "Next"



Press "Activate Services"



Now, the DYNDNS service is completed.



Take note of the User name, Password and Hostname.

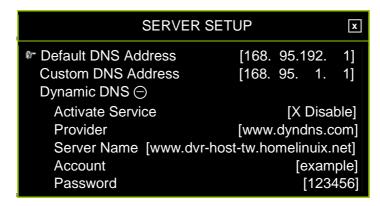
6.2.4 Setup Router

Most of the settings for the router is identical, here is the suggestion:

- Specify DYNDNS service provider: DnyDNS.org (dynamic)
- Specify DYNDNS IP by DYNDNS account (user name / password)
- Specify DVR IP as private IP setting
- Specify one pair of connection port (control port / streaming port), like"80"

6.2.5 Setup DynDNS Setting on DVR

After completing, the DYNDNS account application, go to the DVR server setup menu and input the DYNDNS information for network connection.



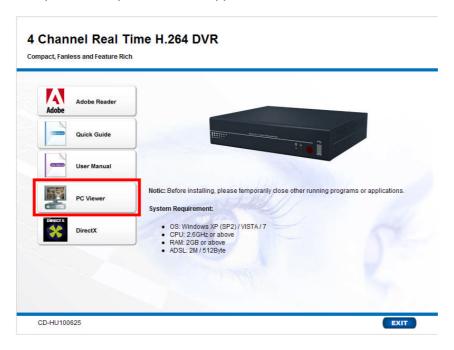


PC Viewer & Web Browser Viewer

7.1 PC Viewer Installation

PC Viewer will help you to play the video data on the Windows platform computer, please refer to the attached CD, then run "PC Viewer" to playback the DVR video data.

Windows OS platform requires that the application be run as the administrator user.

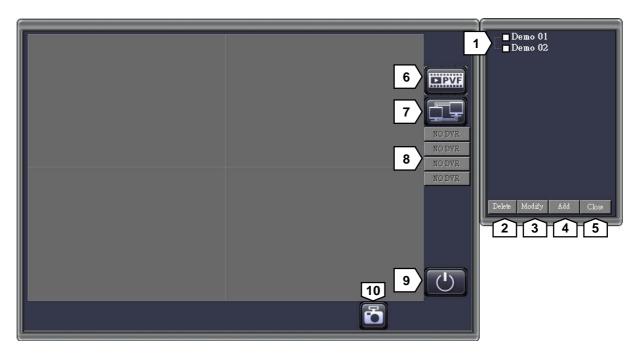


NOTE

It is suggested that you install the DirectX software. It provides a smoother display of the PC Viewer video on the computer.

7.1.1 Overview

Click on the PC desktop icon "PCViewer" to execute the PC Viewer at the Windows platform computer. The PC Viewer support remote viewing and control for maximum 4 DVR connections.



No.	Function	
1	DVR connection window	
2	Delete the DVR connection	
3	Modify the DVR connection	
4	Add new DVR connection	
5	Close the connection window	
6	Playback the video backup PVF file	
7	Open the DVR connection window	
8	DVR connection status and switch button	
9	Exit the PC viewer	
10	Capture the still images	

7.1.2 Connect PC Client to DVR

This section describes how to manage the DVR connection window.

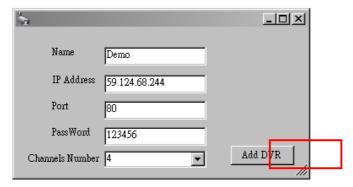
- 1. Click the button to open the DVR connection window.
- 2. Click the button to add, modify, delete the DVR connection or close the DVR connection window.



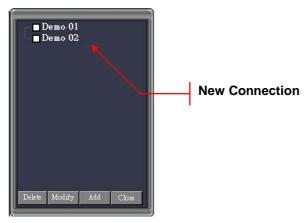
3. Let us add a new DVR connection: Press the "Add' button to create a DVR connection.



4. Input or modify the DVR name, DVR IP address, Port No (Default port number is 80 or 8000), Password and number of DVR channels at the pop-up windows.



5. The DVR list will show the new DVR connections after setup.



6. Select the DVRs you would like to connect, viewing and control from the list of available DVRs. A check mark will indicate your choices.



7.1.3 Switching the Channel Displays

This section briefly illustrates how to switch channel display.

Display a single channel on one quadrant

Double click on the channel you would like to display on one quadrant.

The screen will appear as follows:



Display 4 channels viewing on one quadrant

Double click the single channel viewing to switch the display.

The screen will appear as follows:



Display a single DVR connection display in full view

Click the DVR connection switch button to display a single DVR connection in full view. The screen will appear as follows:



Display single channel in full view:

Double click the specific channel you would like to display in full view, or click the "\(\bigcirc\)" icon to switch the display.

The screen will appear as follows:



7.1.4 Pause the Viewing

Click on the "II" icon to pause the current viewing.



7.1.5 Capture Still Image

Click on the "icon to capture still image of the view that is currently displayed on the screen. Save the BMP image to the specific location in your computer.

For Web Browser Viewer, the still image will be stored at "C:\Viewer" in your computer.



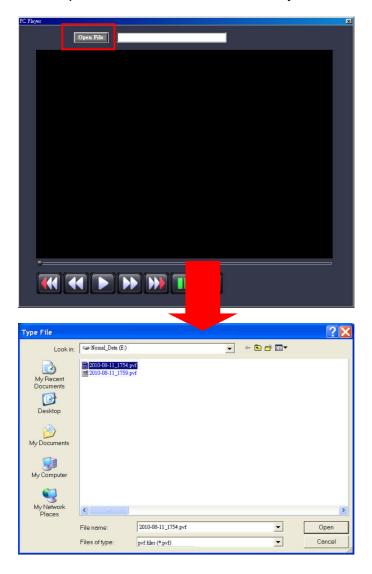
7.1.6 Playback the PVF File (Backup from DVR side)

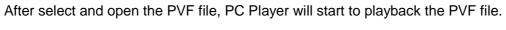
This interface enables to playback the PVF file which is backup from DVR side.

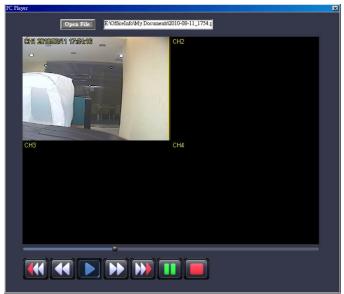
Plug the USB device into USB port on your personal computer then click the icon "to display the PC Player.



Click "Open File" to read the PVF file from your USB device.







7.1.7 Remote Playback

Click on the "Lea" icon to display the remote playback interface on your PC Viewer.





7.1.7.1 Preview of the Control Bar



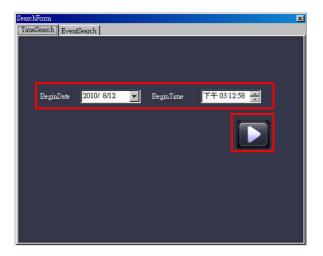
No.	Name	Function
1	Fast Backward 2x	Plays backward faster by twice the normal speed
2	Fast Backward 1x	Plays backward faster by 1x the normal speed
3	Playback	Starts the video playback
4	Fast Forward 1x	Plays forward faster by 1x the normal speed
5	Fast Forward 2x	Plays forward faster by twice the normal speed
6	Pause	Pauses the video playback
7	Stop	Stops the video playback
8	Time Bar	Adjust the playback time

7.1.7.2 Playback the Recording Video

The system supports playback the recording video by "Time Search" or "Event Search".

7.1.7.2.1 Playback by Time Search

"Time Search" interface offers user to playback recording video by specific time.



Select the "Begin Date" and "Begin Time" then click "D" button to playback the video by your specific time.



7.1.7.2.2 Playback by Event Search

"Event Search" interface offers user to playback recording video by specific event.



Selects the Event Begin Date and Time, Event End Date and Time and Event type, then press "\sum" to load the event list from DVR.

Double click the specific event for playback; you will see the video playback on the Main Window as following:

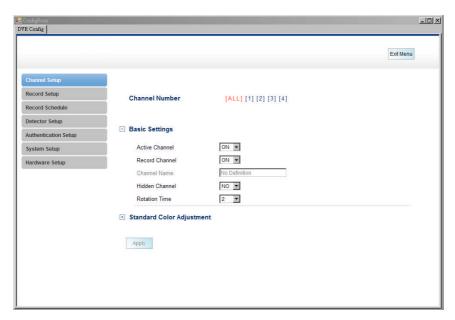


NOTE

The "Record" and "Normal" events incorporate with video data for playback. The "Hardware" and "Warning" event just present the occurred time.

7.1.8 Remote DVR Configuration

Click the icon to display the remote configuration interface on your PC Viewer.



You can change the DVR configuration on this interface.

The operation method of the remote configuration interface is consistent with the DVR interface. Please refer to the DVR operation sections on this manual.

7.2 Web Browser Viewer

This section introduces the remote viewing and control through Web Browser Viewer. This function is supported only in the IE browser. You may encounter abnormal operations if you use other browsers.

Install the Active-X directly from the webpage (For initial installation). Refer to the following example to enter the Web Browser Viewing:

1. Start up IE Explorer and enter the DVR IP address to IE address bar. (Please refer to DVR Network Information of DVR IP Address.)



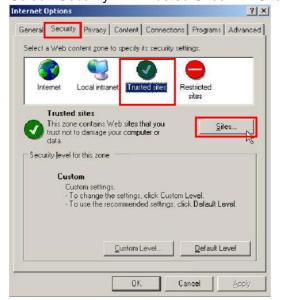
If the message "Your security settings do not allow web sites to use ActiveX controls installed on your computer." pops up when logging in, please follow following instruction.

Select the IE browser "Tools" on the tool bar and select "Internet Options"

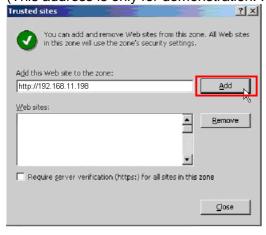


What's the Risk?
Information Bar Help

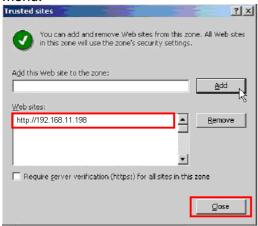
Select "Security" \rightarrow "Trusted Sites" \rightarrow "Sites"



Enter the DVR address into the blanks shown in picture, and click "add." (This address is only for demonstration. Please use the IP address linked to your on-site DVR.)



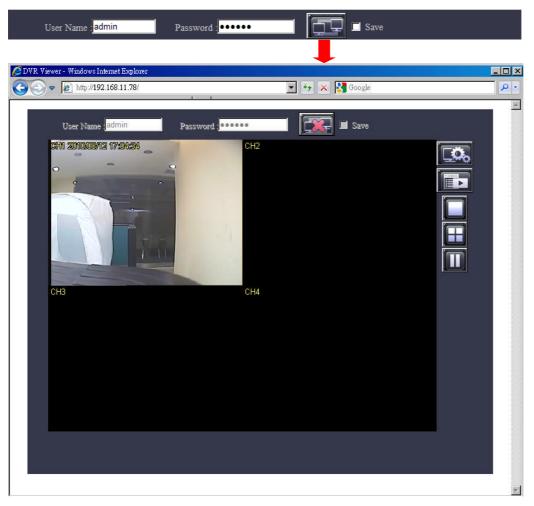
The newly added website will appear at the trusted web sites list. Press Close to leave the menu.



Go back to the internet browser (IE) window, press refresh button or F5. You will enter the Web Browser Viewer login page.

Enter the designated user name and password. (Enter the default user name "admin" and password "123456" if you did not change the DVR Authentication settings.)

Press the "
icon to connect to the DVR from the remote site.



7.2.1 Switching the Channel Displays

Display single channel in full view:

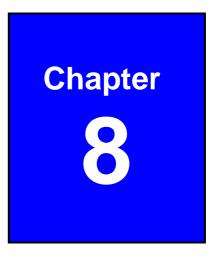
Double click the channel to display single channel in full view.

Display four channels in full view:

Double click the full view display to switch into four channels display.

7.2.2 Web Browser Viewer Operation

The Web Browser interface is consistent with PC Viewer. Please refer to the PC Viewer operation guide.



SecuViewer

8.1 iPhone Environment

Please setup your iPhone environment as following condition:

Upgrade the iPhone OS version up to iOS4.0 or above.

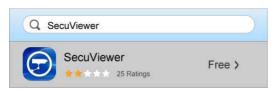
- i. Check the iOS version from iPhone [Settings] \rightarrow [General] \rightarrow [About] \rightarrow [Version]
- ii. If you need to upgrade the iOS, please update from iPhone [App Store] → [Update] to find out the update version.

8.2 Install SecuViewer

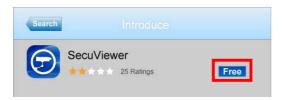
SecuViewer is the free software available for the DVR user to connect to the DVR for remote monitoring through the iPhone.



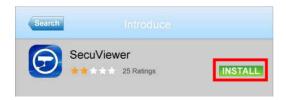
Please search the SecuViewer on iPhone "App Store".



Enter "SecuViewer" to search the SecuViewer software on the iPhone APP Store search page.



Touch the icon "Free" that the icon will change to "Install". You could install the software through one more touch.

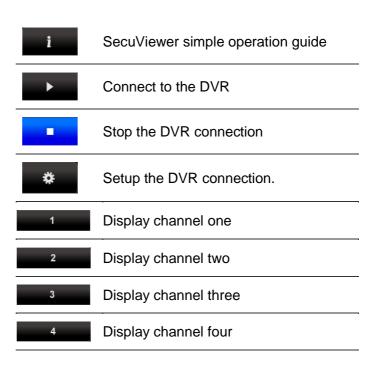




You can see the SecuViewer icon on the iPhone main screen.

8.3 SecuViewer Interface Overview





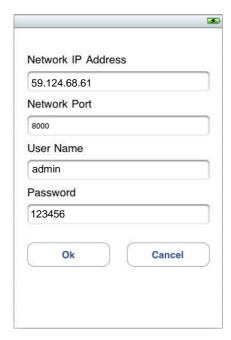
8.4 Connect to the DVR



Select the SecuViewer icon on iPhone main screen to start the remote monitoring.



Select the "Setup" icon to setup the DVR connection.



Please setup all information to connect to the DVR:

- » Network IP Address: Enter the DVR IP Address.
- » Network Port: Enter the network port (default is 8000).
- » User Name: Enter the user name (default is admin).
- » Password: Enter the password (default is 123456).

When you are done with the setup, click on the "Ok" icon.



Click on the "Play" icon to connect to the DVR.

SecuViewer can only display one channel on the iPhone screen. The default viewing channel is channel one.