

Ultra-light 4CH H.264 Digital Video Recorder



TYPE1: VGA Output

TYPE2: VGA / BNC Output

TYPE3: VGA / BNC / LCD Output

USER MANUAL

2013 MAR V1.1



* In the first phase of installation or default value, the image will be shown on VGA,
if users need another display, please switch by manual way. (TYPE2)



WARNING

- Do not expose the DVR under the sunlight, heat or wet environment while installation. As it could decrease the performance of DVR and damage the machine.
- Do not touch the power plug or case with wet hands as this could result electric shock.
- Do not forcedly bend or put heavy object on power cable as this could result in injury to personal or equipment.
- Do not operate with damaged power cord or loose electrical outlet as this could result in electric shock or accident.
- Please use individual power instead of share electrical outlets with other electrical equipment as this could result in damage or accident.
- Do not attempt to service this DVR by yourself as it may expose you to dangerous voltage or other hazards. Please refer all service to the qualified servicing distributor.
- Please do not remove the machine housing during operation.
It may cause electric shock or accidental injury.



CAUTION

- Do not place the machine on an uneven surface or it would decrease the DVR efficiency or malfunction.
- Avoid any shock or bumping of the DVR while recording. Improper handling could damage the system.

	CAUTION	
	Make sure the voltage selector switch is set to appropriate setting before plug in!	

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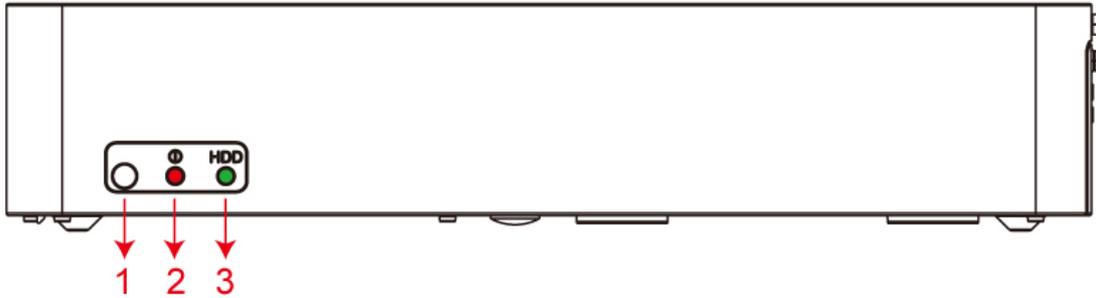
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1. Specification

TYPE		TYPE1	TYPE2	TYPE3
Video Format		NTSC / PAL		
Video Input		4 CH Input / BNC		
XGA Output		800x600, 1024x768, 1280x1024, 1440x900		
BNC Output		—	1CH Output / BNC	1CH Output / BNC
Real Time Video Output		—	—	LCD 3 inch 4:3 monitor
Display Mode		Full Screen, 4CH Split Screen, Auto Switch, Picture in Picture		
Display Resolution		720 x 480 / 720 x 576		
Recording Resolution	Highest	720 x 480 / 720 x 576		
	High	720 x 240 / 720 x 288		
	Normal	360 x 240 / 360 x 288		
Recording Frame		Max. 120 FPS / 100 FPS		
Compression Algorithm		H.264		
Operating System		Embedded Linux		
Pentaplex		Live / Record / Playback / Network / Mobile Phone		
Recording Mode		Manual, Schedule, Event		
Schedule Recording		Full Recording, Motion, Manual Recording		
Status Indicator		Power, HDD		
Event Mode		Motion Trigger, Video Loss		
		Recording Duration: 10~60 sec.		
Playback Mode		Normal Speed: x1		
		Fast Forward: x2 / x4 / x8 / x16 /x32multiple speed		
		Slow Forward: 1/2, 1/4, 1/8 multiple speed		
		Fast Rewind: x2 / x4 / x8 / x16 /x32		
		Frame by Frame Playback: Forward		
		Search Function: Time / Event		
Network Protocol		TCP/IP / PPPoE / DHCP / SMTP / DDNS / 3G		
HDD Type		SATA 2.5" HDD x 1 (No HDD Included)		
HDD Management		Automatic Format System		
Backup Device		USB 2.0 Flash Memory Stick		
Firmware Update		Host USB		
Multi-Language		English / Chinese / Others		
Control Mode		Remote Control / USB Mouse(GUI) / Internet		
Network Control		IE Browser		
Network Function		Live Display / Playback / System Setup		
Power Supply		DC 5V / 2A(AC100V~240V 50/60HZ)		
Unit Dimension		216mm x 97mm x 43mm		
Weight		500g(HDD Included)		

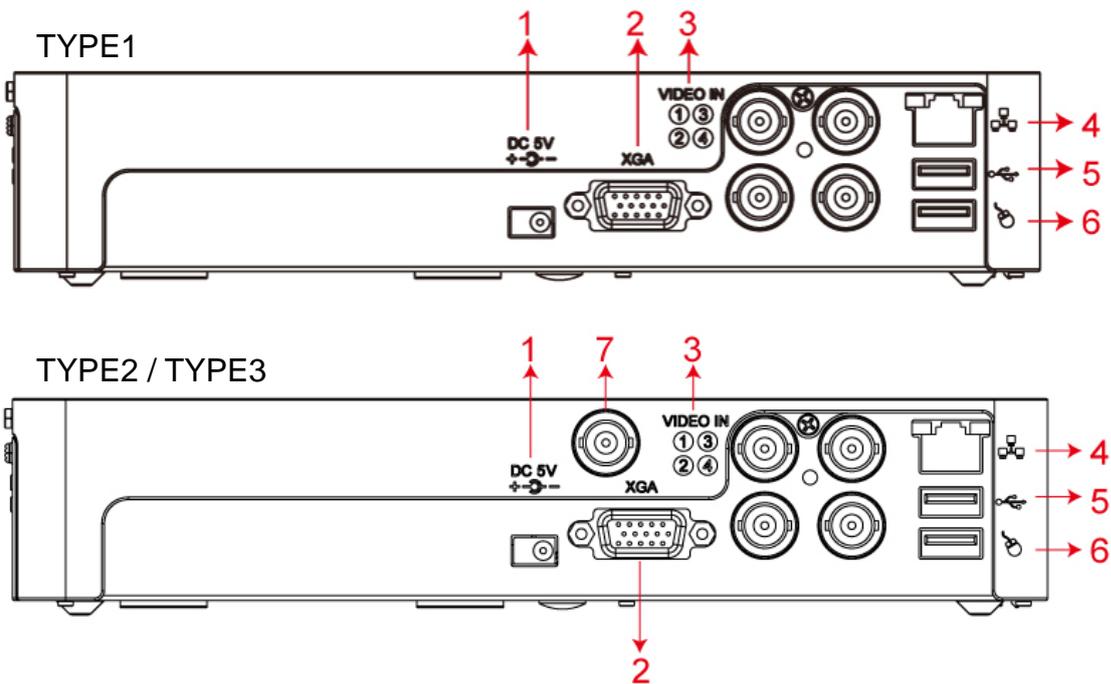
2. Structure of Product

■ Front Panel



1. IR Remote Controller.
2. Power Indicator.
3. HDD Indicator.

■ Installation



1. Power Input: DC 5V
2. XGA: PC Monitor Output
3. VIDEO IN: 1~4CH Video Input
4. LAN: RJ-45 Network Connection
5. 2.0 USB Port
6. 2.0 USB Mouse Port
7. VIDEO OUT: 1CH Video Output

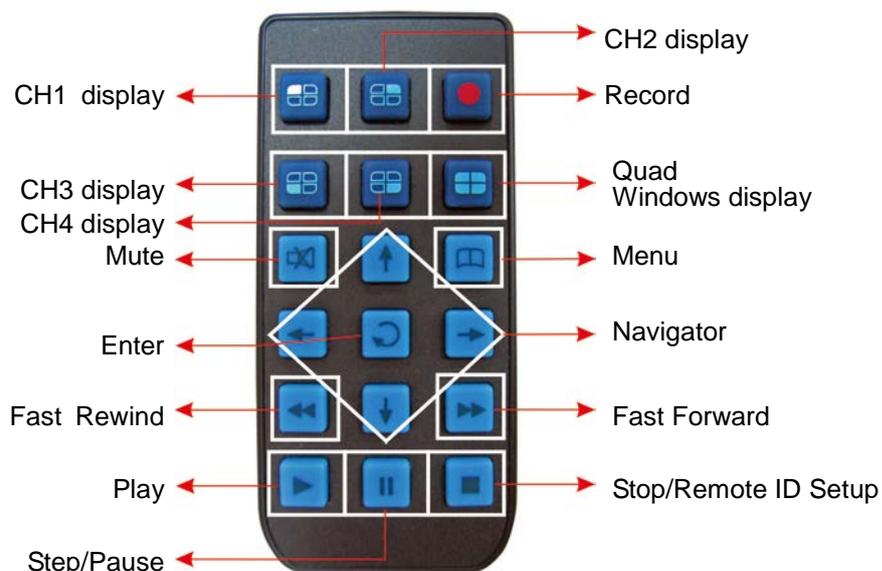
3. DVR Installation

- Connect the camera video output to the DVR video input port with BNC connectors.
The camera install coaxial cable is suggested cat 6 or above.
- DVR Network installation
Please connect DVR to HUB or router by using RJ-45 network cable and make sure the DVR network indicator LED is on.
(Please refer to Network Setup for further network setting information of using static IP, PPPoE or DHCP).
- Power Installation
Please use the provided power cable and adaptor to connect the DVR DC 5V / 2A (AC100V~240V 50/60HZ). Please refer to Installation for connecting position. The DVR system will enter into live viewing mode when power is connected. Please refer to Display Setup - Live Viewing Mode for more information.

4. System Operation

There are 2 kinds of DVR control method: remote control and USB mouse.

- USB Mouse Operation
 1. Quick Menu: Right click the mouse button under the live viewing mode to go for enter into Quick Menu.
 2. Left click the mouse button under the main menu to go to the sub-select menu.
 3. Left click the mouse button under the select menu to go to the sub-menu.
 4. Use the mouse to change the setting.
- Remote Control Operation



★Under the LIVE screen, press fast forward button twice within 1 second, can switch GUI interface.

■ Virtual Keyboard Operation

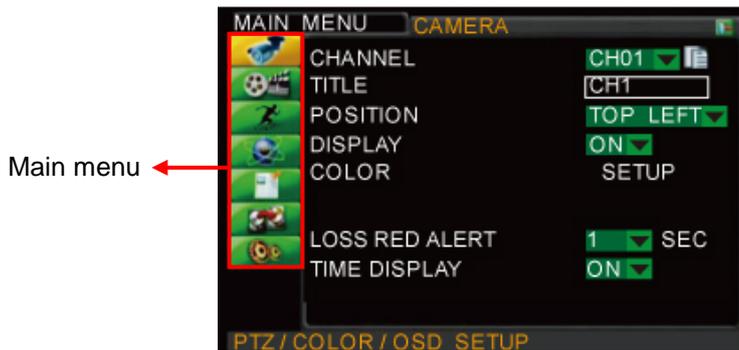
The text input of the virtual keyboard is as below:



Menu Operation	Remote Control Operation	Mouse Operation
Select character from virtual keyboard	[Up/Down/Left/Right]	[Move Cursor]
Keyin the select character	[Enter]	[Left Click]
Exit the virtual keyboard	[MENU]	[Left Click]out of selection area

Key Description of Virtual Keyboard	
←	Delete the previous character
123	Switch to text input
↵	Enter key. Save and exit the virtual keyboard
Other Keys	Character Key in

■ Main Menu Operation



Setup Operation	Remote Control	USB Mouse
Select	[Up/Down/Left/Right]	[Moving Cursor]
Enter Select Menu	[Enter]	[Left Click]

■ Setup Operation



Setup Operation	Remote Control	USB Mouse
Select	[Up/Down/Left/Right]	[Moving Cursor]
Confirm Select Setting	[Enter]	[Left Click]
Change the Select Setting	[Left/Right]	[Left Click]

5. Display Setup

There are kinds of screen display mode: Live and Auto Switching.

■ Live Viewing Mode

The DVR will go to the live viewing mode after boot up. There are 4 different status icon:



- : Record
- M: Motion Triggered
- L: Video Loss
- : Sound on/off

Setup Operation	Remote Control	USB Mouse
Channel 1~4 Single Channel Display	[CH1~4]	Select one of channel [Double click left button]
4 Channel Split Display	[4 CH Split]	Under single channel [Double click left button]
Quick Menu	[MENU]	[Right]
Playback Mode	[Play]	[Right] QuickMenu
Start/Stop the Manual Record	[Record]	[Right] QuickMenu
Start/Stop the Auto Switching	[Auto Switch]	[Right] QuickMenu
Start/Stop Mute	[Mute]	[Left] Left Click 

■ Quick Menu



Setup Operation	Remote Control	USB Mouse
Select Item	[Left/Right]	[Moving Cursor]
Enter the Select Item	[Up/Down]	[Moving Cursor]
Confirm the Select Item	[Enter]	[Left Click]
Exit	[MENU]	[Left Click] out of selection area

■ Playback Operation



Setup Operation	Remote Control	USB Mouse
Fast Rewind	[Fast Rewind]	
Fast Forward	[Fast Forward]	
Step Forward	[Step Forward]	
Step/Pause	[Step/Pause]	
Play 1x	[Play]	
Stop	[Stop]	
Digital Zoon	None	Drag by Left Click
Derived Image	None	[Left click]
1~4 Single Channel Display	[1~4 Channel]	Select Channel [Double left click]
4 split Display	[4 split]	Under single channel [Double left click]

■ Auto Switching

1. Auto switch starts from order CH1~CH, 4 split channel.
2. Press the button again to stop the function.

6. Search

In Live mode, use Play button in the remote controller or right clicking the mouse to switch to the Search function.



Setup Operation	Remote Controller	USB Mouse
Search	[Enter]	[Left Click]
Select Channel	[Up/Down]	[Moving Cursor]
Select Dates	[Up/Down/Left/Right]	[Moving Cursor]
Playback	[Enter]	[Left Click]
Return to Upper Menu	[MENU]	[Right click] or [Left click 

- No data: no color, data of alarm trigger: red color, normal record data: green color.
- Select the first half of hour frame under the date, the playback will start from 00 mins: 00 sec. Select the second half of hour frame under the date, the playback will start from 30mins:00sec. If there is no data on the date, please try to search from record list.
- Select any of 4channels to playback.



■ Record List



Setup Operation	Remote Controller	USB Mouse
Enter Select Item	[Enter]	[Left Click]
Select Item	[Up/Down/Left/Right]	[Moving Cursor]
Return to Upper Menu	[MENU]	[Right click] or [Left click 
First Page		
Previous Page		
Next Page		
Last Page		
Mark all the events in this page		
BackUp		

- ◆ List all of recording data and click on one of record data to playback.
- ◆ Backup
Please click “BACKUP” to backup the selecting file to USB memory stick.

7. Main Menu

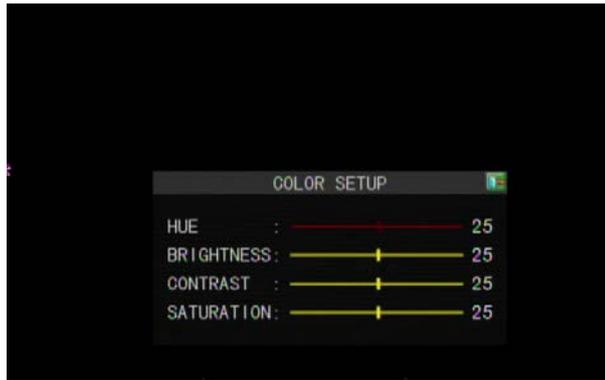


Setup Operation	Remote Controller	USB Mouse
Select Item	[Up/Down/Left/Right]	[Moving Cursor]
Enter Select Item	[Enter]	[Left Click]
Exit Main Menu	[MENU]	[Right click] or [Left click 

8.1 Camera Setup



- Channel
Select one channel to set. Use Copy Button to copy present settings to other channels.
- Camera Title
Set the title of camera. Key in by using virtual keyboard.
- Title Position
Set the title position. Set: Top Left, Top Right, Bottom Left, Bottom Right and Off.
- Display
Display the channel, set: On/Off
- Camera Color Setup



- ◆ Hue: 0~50
- ◆ Brightness: 0~50
- ◆ Contrast: 0~50
- ◆ Saturation: 0~50

- Lose Red Alert
When there is video loss, a red warning light signal will appear in the screen.
- Time Display
Display the time in LIVE mode. Values: ON/OFF.

8.2 Record Setup



- Record Enable Setup
On/Off the channel.
Watermark: Insert the words of watermark.



- Resolution Setup
NTSC Recording Resolution: 720x480 / 720x240 / 360x240.
PAL Recording Resolution: 720x576 / 720x288 / 360x288.



- **Frame Rate Setup**

Setting of Frame Rate: NTSC: 0-30 frames/sec; PAL: 0-25 frames/sec.



- **Quality Setup**

Setting of recording quality: Values 1-5. The bigger value, the better quality.



- **Pre Record setting**

Pre Recording time when motion. Values: 0-10 seconds.

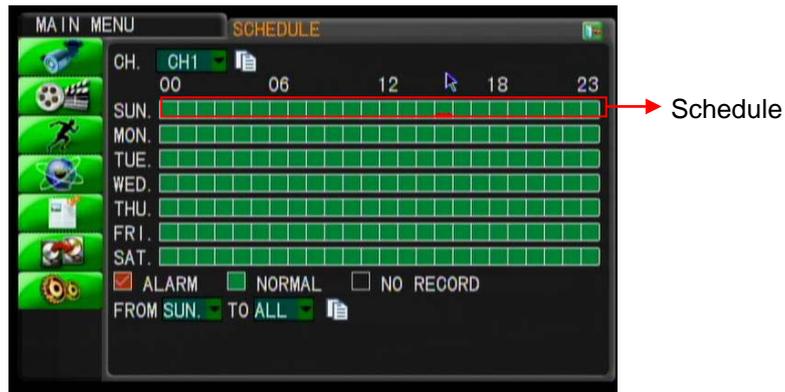
- **Encode Mode**

Encoding of channel. Values: VBR or CBR.

- **Record schedule setup**

Always and Schedule Record.

◆ Record Schedule

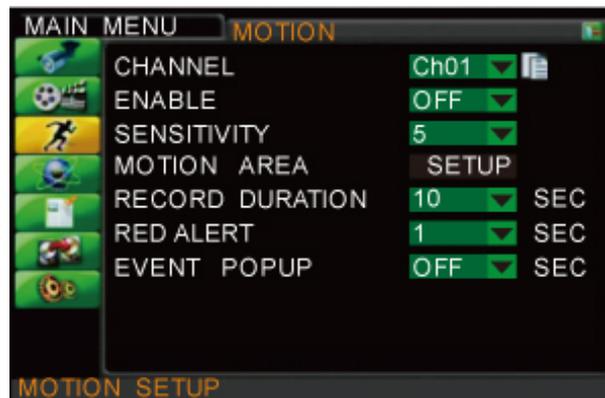


Setup Operation	Remote Controller	USB Mouse
Enter Select Item	[Enter]	[Left Click]
Select Channel	[Up/Down]	[Moving mouse wheel]
Select Time&Date	[Up/Down/Left/Right]	[Click/Drag-draw]
Return to Upper Menu	[MENU]	[Right Click] or [Left Click 

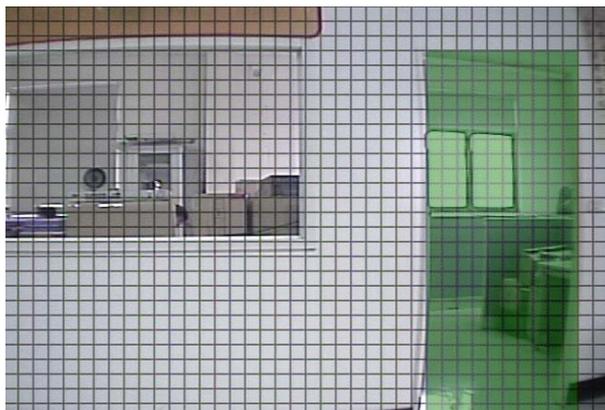
◆ Copy

- (1) Select source
- (2) Select target
- (3) Press COPY icon to copy.

8.3 Motion Detection



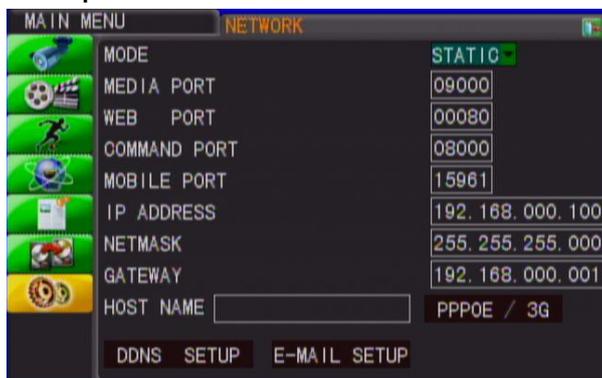
- Channel
Select the channel to set. COPY icon can copy the present setting to other channels.
- Enable
Enable/disable motion detection for each camera. Set: On/Off
- Sensitivity
Sensitivity level of motion detection. Set: 1~10. Higher value equal more sensitive.
- Motion Area Setup
Setup by each small square.



Setup Operation	Remote Controller	USB Mouse
Area Selection	[Up/Down/Left/Right]	[Moving Cursor]
Set Detection Area: must set on none detection area(Transparent Area)	(1)Move to the area (2)Press Enter to set the area	[Drag by Left Click]
Clear Detection Area: clear the set detection area: must set on detection area(Green Area)	(1)Move to the area (2)Press Enter to set the area	[Drag by Left Click]
Return to Upper Menu	[MENU]	[Right Click]

- **Record Duration**
The duration of the recording after triggered: 10, 20... 60 sec. or off.
- **Red Alert**
The time duration of red motion trigger warning light on the channel. 1, 5, 10, 15, 20, 30 sec.
- **Event Popup**
The Duration of single channel display after being triggered: 1, 5, 10, 15, 20 sec or off.

8.4 Network Setup



- **Mode**
Set the connection method. Set: Static IP, DHCP, PPPoE.

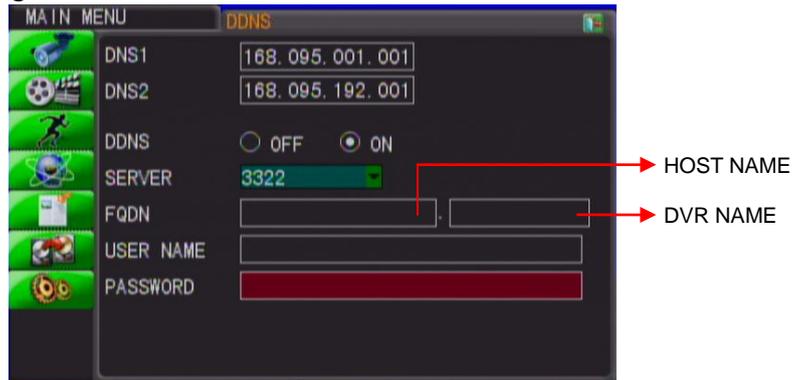
- Media Port
Port used for stream media. Default is port 9000.
- WEB Port
Port used for web access. Default is port 80.
- Command Port
Port used for settings. Default is port 8000.
- Mobile Port
Mobile phone port (factory default): 15961.
- IP Address
Assigned IP address.
- Netmask
Assigned net mask
- Gateway
Assigned gateway
- HOST Name
Set the HOST Name of DVR.
- PPPOE/3G
 - ◆ PPPOE: Need account and password for PPPOE.



- ◆ 3G: Need account, password, APN and dial number for 3G.

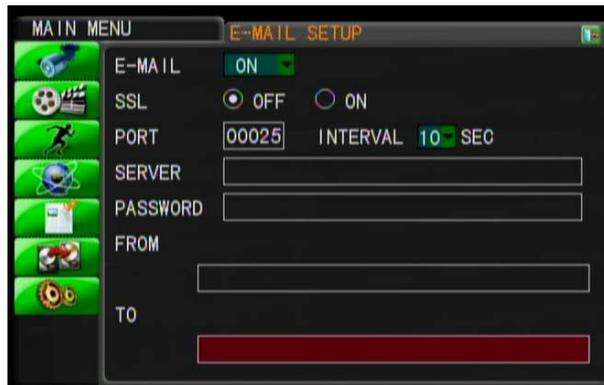


■ DDNS setting



- ◆ DNS1 First Domain Name Server, Default : 168.95.1.1
- ◆ DNS2 Second Domain Name Server, Default :168.95.192.1
- ◆ DDNS
Enable/disable Dynamic Domain Name server. Values: On, Off.
- ◆ DDNS Server
- ◆ DDNS Server, Values: 3322, dyndns, cctvdvr.
- ◆ When using DDNS server, HOST name, server name and account/password are required.

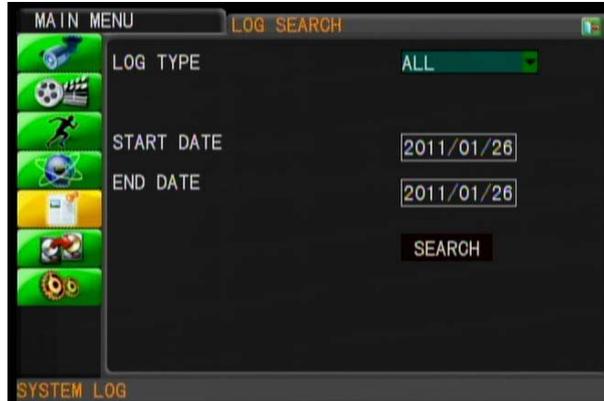
■ E-Mail Setting



- ◆ E-MAIL
Forward E-mail after alarm triggered. Enable: On/Off
- ◆ SSL
Enable the SSL encryption. Recommend to set on if it is using gmail.
- ◆ Port
SMTP port number key in. For example, gmail port 465.
- ◆ Server
SMTP server key in. For example, gmail: smtp.gmail.com
- ◆ Password
Sender E-mail account password
- ◆ From
Sender E-mail address key in. For example, gmail: mail1@gmail.com
- ◆ To
Receiver E-mail address key in. For example, gmail: mail2@gmail.com

- ◆ Interval
When alarm keeps going, the time span to send E-mail. Values: 10, 30, 60 seconds.

8.5 Log Search



- Log type
Set conditions for searching: type and time range. Log type can be ALL, Alarm, Operation, Motion Detection, and Video Loss.
- Start/End time
Set the search range (Year/Month/Day). Press [SEARCH] to search.



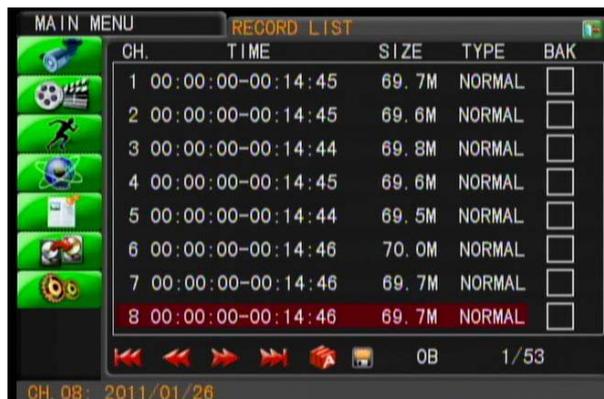
Setup Operation	Remote Controller	USB Mouse
Enter Select Item	[Enter]	[Left Click]
Select Item	[Up/Down/Left/Right]	[Moving Cursor]
Return to Upper Menu	[MENU]	[Right click] or [Left click 
First Page		
Previous Page		
Next Page		
Last Page		
Backup to USB disk		

- ★ When Trigger Recording is marked, click to playback.

8.6 Backup



- Channel
Backup all channels or single channel 1-4.
- Record Type
Select all, normal or alarm.
- Start/End time
Select the backup range of time. Press Search to start searching. The record list will be shown if available and follow [Record list] to backup.

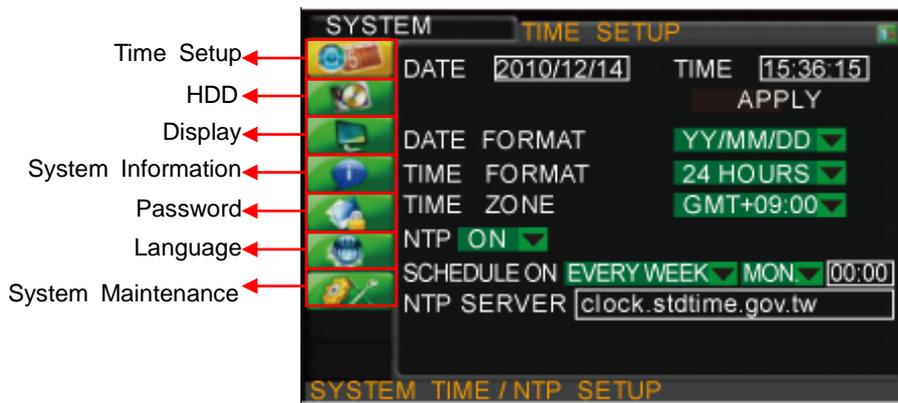


Storage Device Choose

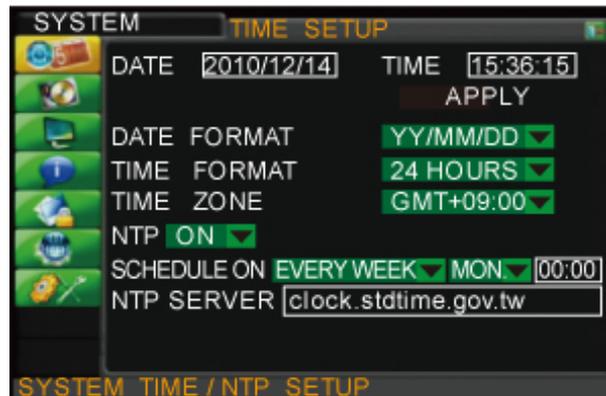




8.7 System



8.7.1 Time Setting



- ◆ Date/Time
Select by using virtual keyboard.
- ◆ Date Format Setup
Set: YY/MM/DD, MM/DD/YY.
- ◆ Time Format Setup
Set: 24Hours, 12Hours.
- ◆ Time Zone Setup
Time Zone setting of DVR.
- ◆ NTP Setting (Network Time Protocol)
NTP: On or Off
Schedule Time: Using virtual keyboard
NTP server: Using virtual keyboard

8.7.2 HDD Setup



- ◆ **Format**
Format the selected HDD
Format HDD



- ◆ **Overwrite**
Enable/Disable Overwrite, Values: On/Off.
If Overwrite is enabled, the period can be set as 6, 12, 24, 36, 48, 72 hours and 7, 15, 30, 60 days.
- ◆ **Pack Time**
Set the required packing time frame to allow the system to pack each saving file under continue recording mode. Pack time setting: 5 min, 10min, 15min, 20min, 30min, and 60min.
- ◆ **HDD Error RED ALERF**
ON/OFF switch for not enough hard drive space or error message (Quad channel splitter blinks multiple times in red).

◆ USB Disk Info



Format USB Memory Stick



8.7.3 Display Setting

TYPE1



TYPE2



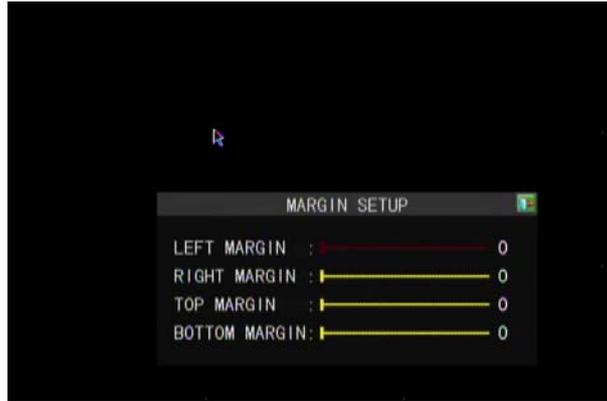
TYPE3



- ◆ GUI Display
GUI display mode can be VIDEO or VGA.
- ◆ Panel Timeout
Set the length of time that the device waits before turning off the panel display.
Values: Off, 1 minute, 2 minutes, 5 minutes, 10 minutes, 30 minutes.
- ◆ Video Switching Time
Set the switching time when switching channels in video mode.
Values: 1-99 seconds. (0 sec is Off)
- ◆ VGA Switching Time
Set the switching time when switching channels in VGA mode.
Values: 1-99 seconds. (0 sec is Off)
- ◆ Switching Sequence
Set the switching sequence of channels.



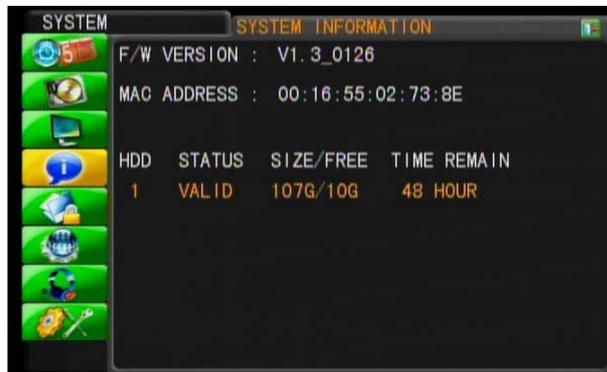
- ◆ VGA Margin
Set the display margins of the screen. They are Left, Right, Top and Bottom with range between 0 - 36.



- ◆ XGA Resolution
XGA Resolution: 800x600, 1024x768, 1280x1024, 1440x900.

8.7.4 System Information

Provide the firmware version, MAC address, HDD status....



8.7.5 User Password

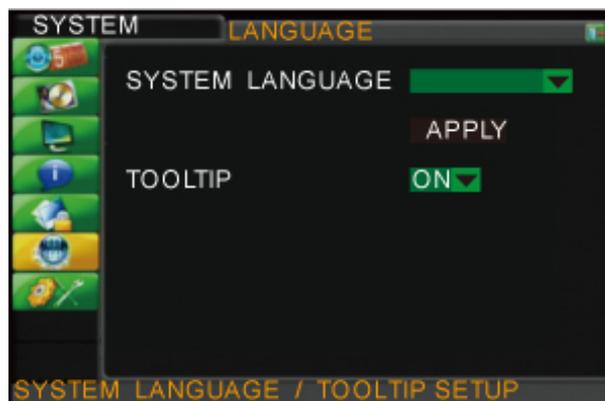


- ◆ Password Setup
Enable/Disable password checking. Values: On/Off (Default)
Administrator account/password cannot be blank. And at least 4 characters for the password.
- ◆ Administrator account/password
Administrator account allows user to access all of functions.
- ◆ User account/password
Access rights can be assigned by setting.

- ◆ Remote ID Setup
Can adjust remote control ID to control multiple DVR.

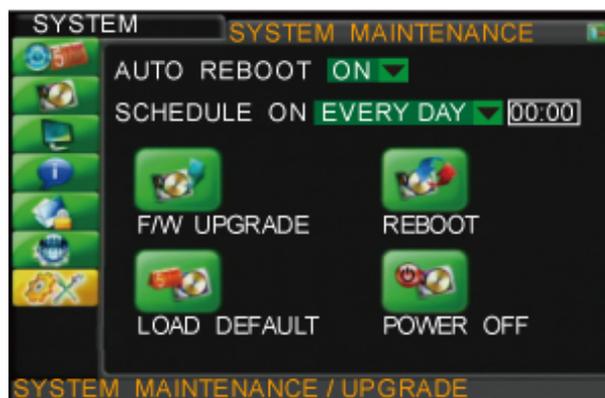


8.7.6 System Language

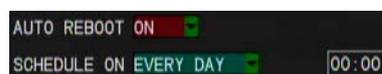


- ◆ Language
Values: Traditional Chinese and English. Auto rebooting after change.
- ◆ Function Tip
Show function tips below the menu items.
Value: On/Off (Default).

8.7.7 System Maintenance



- ◆ Auto maintenance: Set time for auto rebooting. Value: On/Off.
Auto rebooting setting



◆ F/W update

Please plug the USB memory stick into the USB port on the DVR rear panel after download the new firmware to the USB memory stick.

Note: the firmware only can be upgraded by using the USB port. Please don't operate the system, remove the USB memory stick or remove the power while it is in upgrade progressing in order to prevent any serious system error. The system will automatic reboot after upgrade.

◆ Load Setup Default

Load factor default. Refer to [Default Setting].



Backup: For copying the saved setting from one specific DVR to other DVR use.

Restore: For restoring the saved setting in one specific DVR from other DVR use.

Remark: For backup or restore, please plug the USB flash memory drive into the USB socket of DVR. Please also do not change the saved setting file name to avoid the serious system error. After Finishing backup and restore, please restart DVR.

◆ Reboot the DVR

Reboot the DVR.

◆ ShutDown

System will close the recording file. Please remove the power line manually.

8. H264 Player Operation

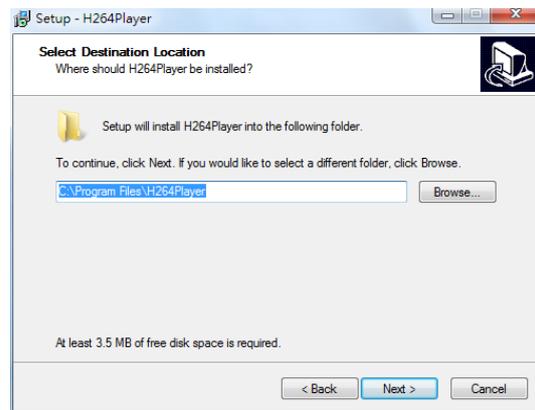
- Preface
H264 Player software allows to playback the backup saving file from the DVR.
- System Requirement
Operating System: Windows 2000, XP, Vista, Windows 7.
- Program obtainment and installation
While user start to backup the file from DVR, the system will automatically copy the H264Player.exe file and recorded data to the backup device for example, an USB flash memory stick.

- ◆ Execute the installation file 

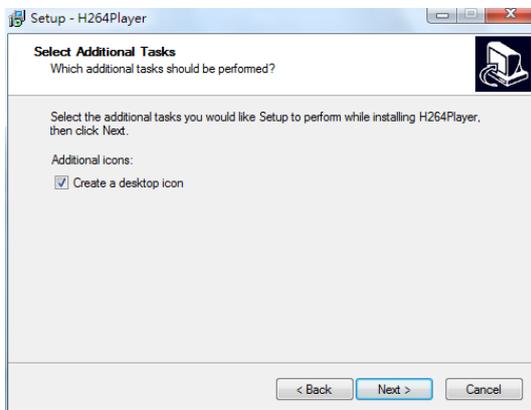
Step 1: Ask for the Installation



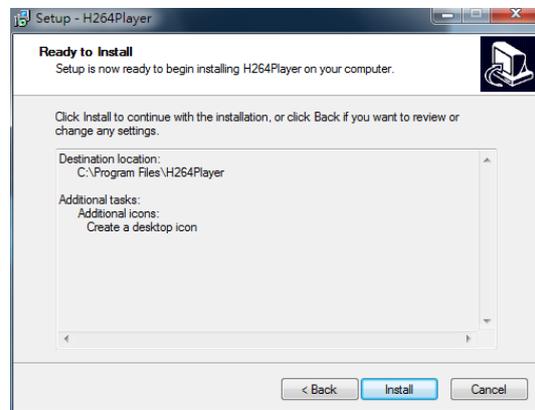
Step 2: Select the Install Location



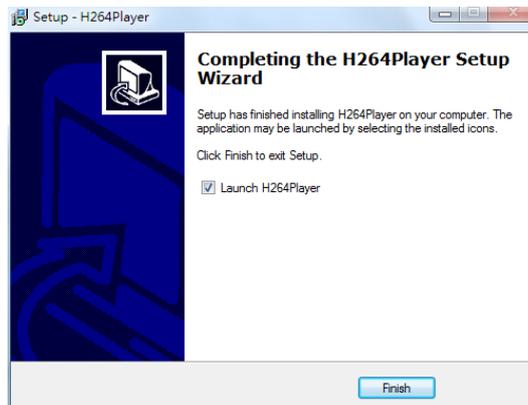
Step 3: Select Additional Tasks



Step 4: Install Confirmation



Step 5: Installation Complete



◆ User Interface



Open File	Click 
Pause	Click 
Stop	Click 
Play 1x	Click 
Fast Forward	Click 
Slow Forward	Click 
Capture the image (snap shot) to the host computer	Click 
Volume Control	Drag 
Rewind	Click 
Step Forward	Click 
Mark start time	Click 
Mark end time	Click 
Backup	Click 
Pop-up Menu	Right click the mouse to open the pop-up menu including Setting, Language, About H264Player, Exit <div data-bbox="1117 1444 1316 1579" style="border: 1px solid black; padding: 5px; display: inline-block; margin-left: 20px;"> <ul style="list-style-type: none"> To AVI Setting Language ▶ About H264Player Exit </div>

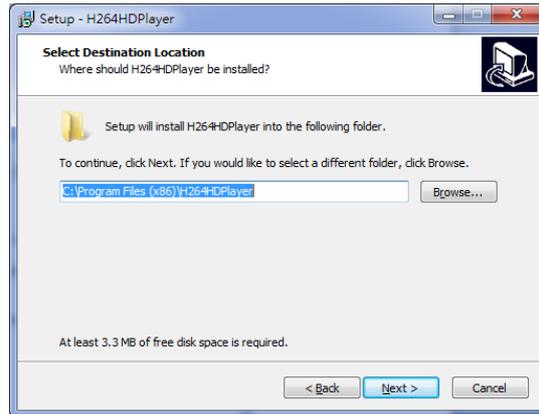
9. H264 HDPlayer Operation

- Preface
H264 HD Player supports direct HDD playback through USB connection. It also supports to playback the individual recorded video files.
- System Requirement
Operating System: Windows 2000, XP, Vista, Windows 7.
- Execute the installation file

Step 1: Ask for the Installation



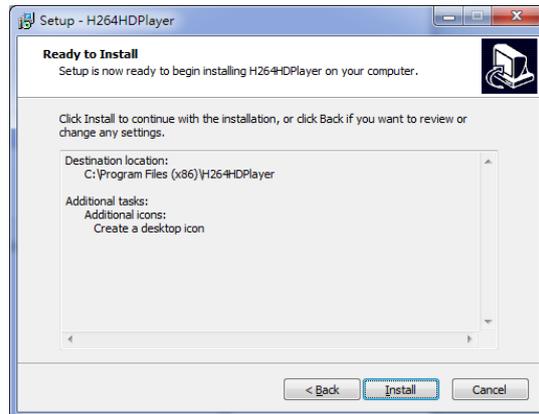
Step 2: Select the Install Location



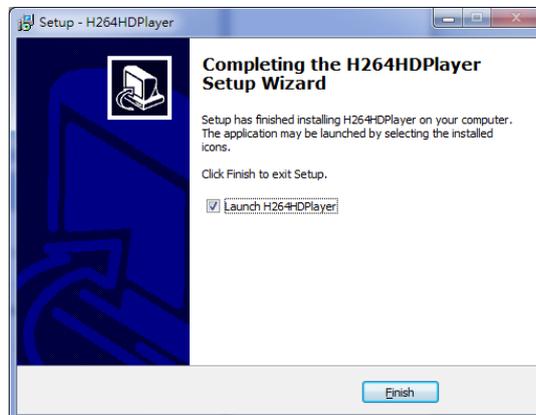
Step 3: Select Additional Tasks



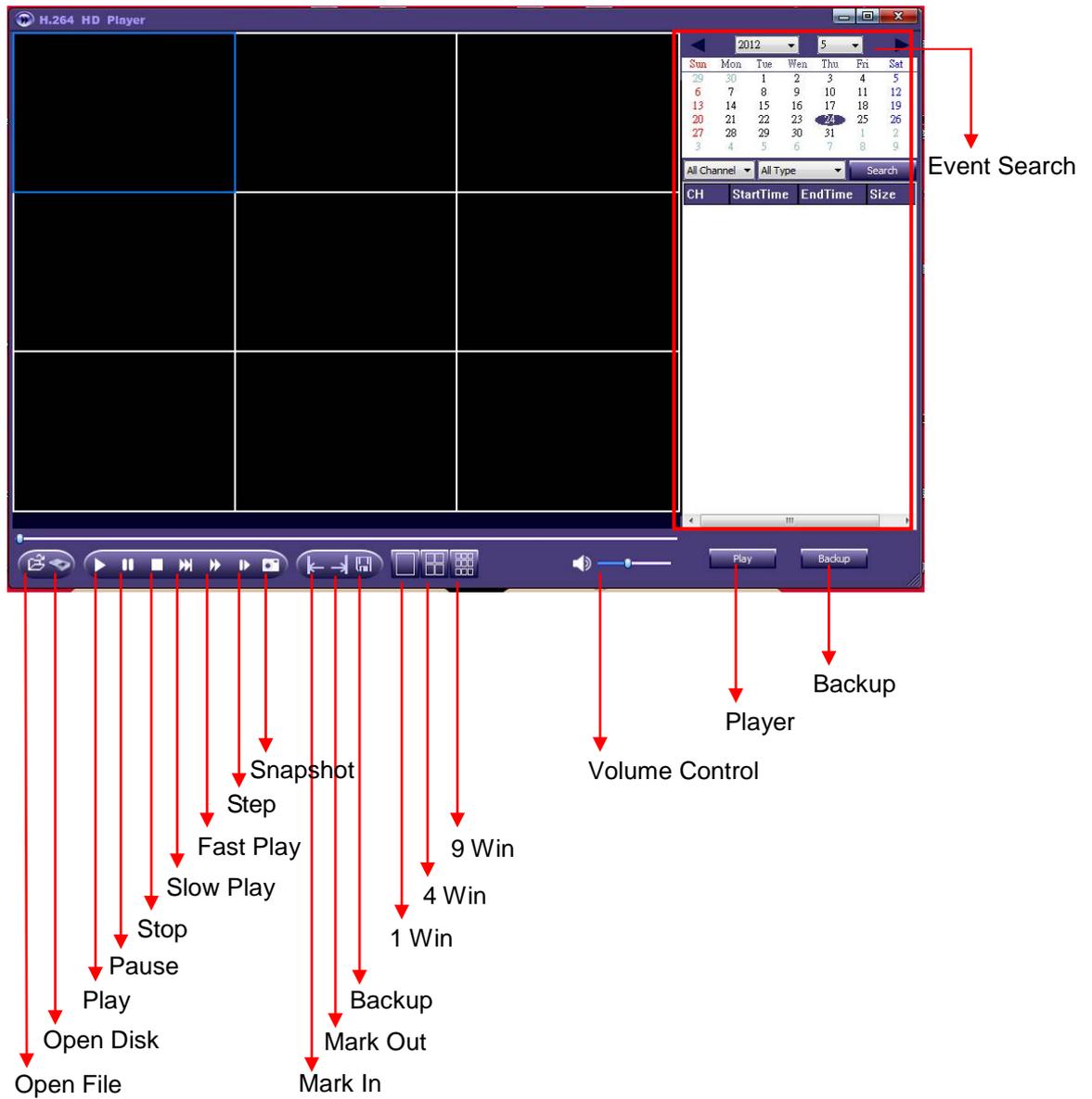
Step 4: Install Confirmation



Step 5: Installation Complete



■ User Interface



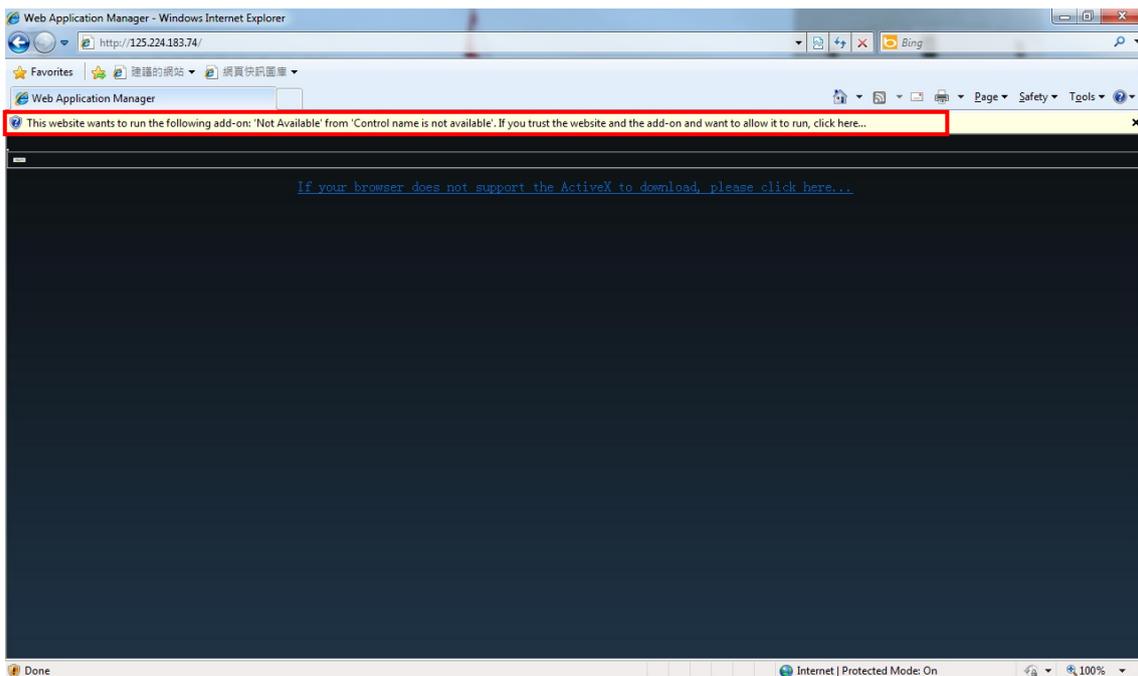
■ Pop-up Menu



Right click the mouse to open the pop-up menu including Setting

10. Web Operation

- Preface
The Web Application Manager allows the user to remotely monitoring, playback, and backup through the DVR.
- System Requirement
Operating System: Windows 2000, XP, Vista, Windows 7
Web Browser: Internet Explorer
- Add-on Installation
Please use the IE browser to login the IP address of DVR setting. If the user is the first time to login the page, the system will ask the user to download and install the add-on as you can see the page below. Please click the request to install the ActiveX add-on.



- User Interface
 - ◆ Login Page

A screenshot of a "USER LOGIN" form. The form has a dark blue background with white text and input fields. It contains four fields: "USER NAME" with a text input, "PASSWORD:" with a text input, "NETWORK:" with a dropdown menu showing "INTERNET", and "LANGUAGE" with a dropdown menu showing "ENGLISH". At the bottom, there are two buttons: "LOGIN" and "RESET".

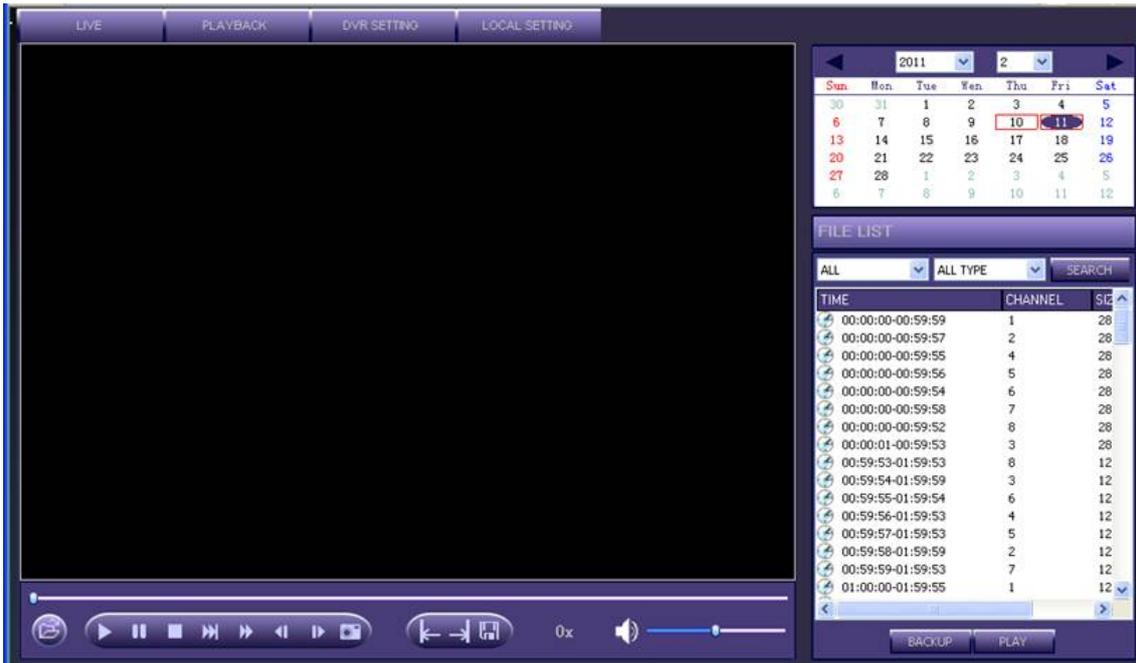
Please login user name and password from the setting of DVR end.

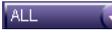
◆ Live mode



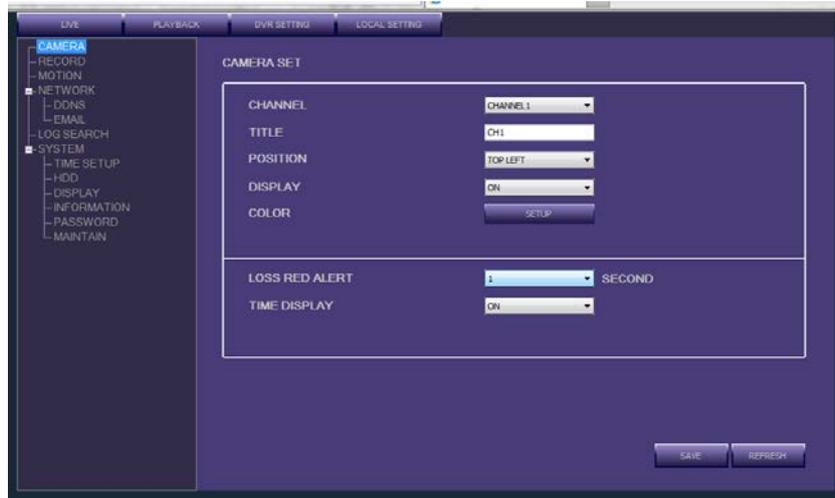
Start/Stop the Live Monitoring	Click 
Record the Footage to Computer	Click  Start recording or  Stop recording (saving path: Setup/Information)
Snapshot the Image	Click  to snap shot the image (saving path: Setup/Information)
Enable/Disable Audio	Click  under the live viewing mode to enable the audio, and click  to disable
Volume Control	Click 
Switch Channel Display	Double click the channel to enter single channel display, double click again to return.
Single/4 Display	Click 

◆ Playback

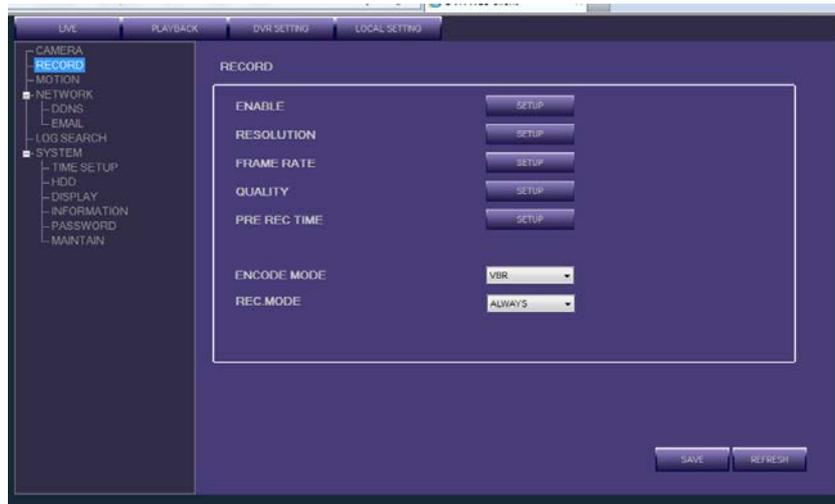


Event Search	(1) Select Date (2) Click  or  (3) Click 
Playback	Click on pop up file list
Fast Forward	Click "Fast Forward" (Speed: 2X, 4X, 8X, 16X)
Rewind	Click "Rewind" (Speed: 1/2, 1/ 4X, 1/ 8X, 1/ 16X)
Step Forward	Click "Previous" or "Step"
Snapshot	Click  to capture.
Mark start time	Click 
Mark end time	Click 
Backup	Click 
Backup	Click "Backup", backup path: Setup → System Setting → Backup Location

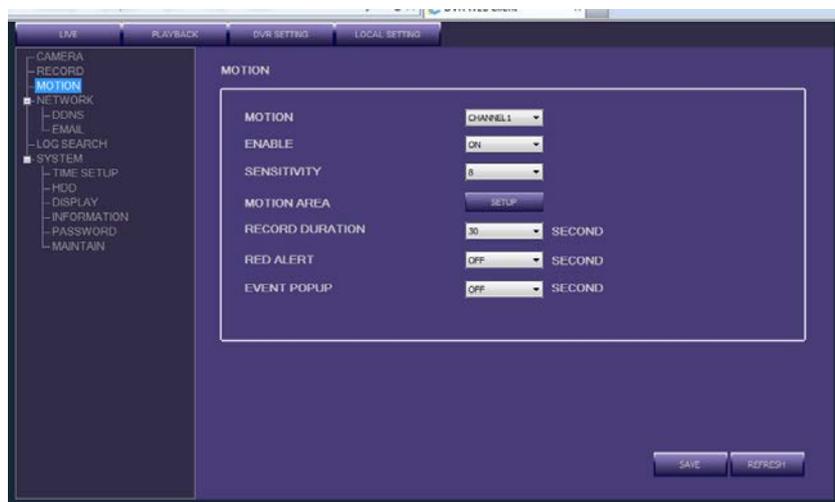
◆ DVR Setting
▶ Cameras



Please refer "Camera Setup" for more information
▶ Record



Please refer "Record Setup" for more information.
▶ Motion Detection

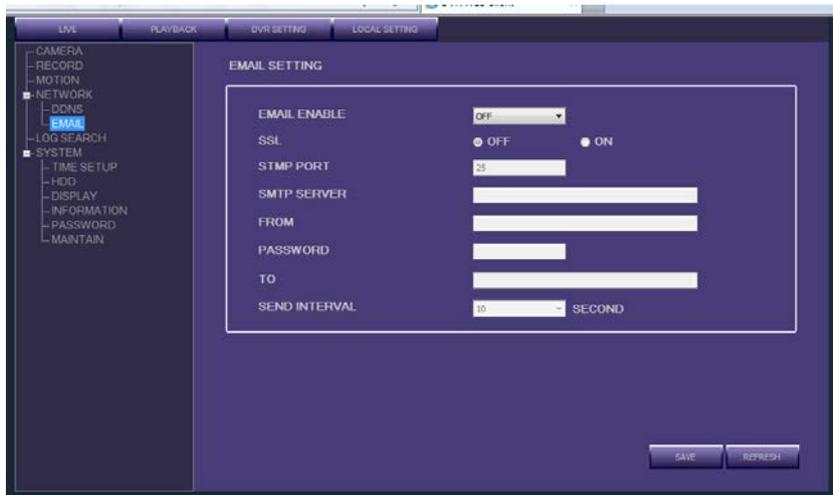


Please refer "Motion Detection" for more information.

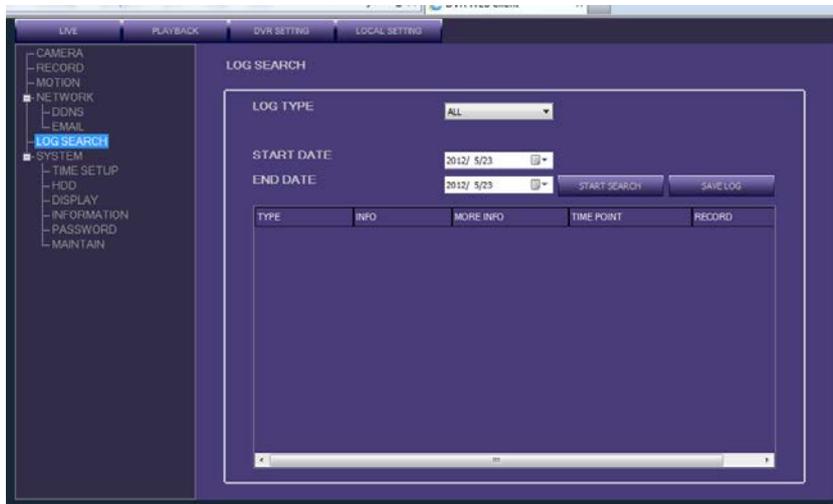
► Network setting



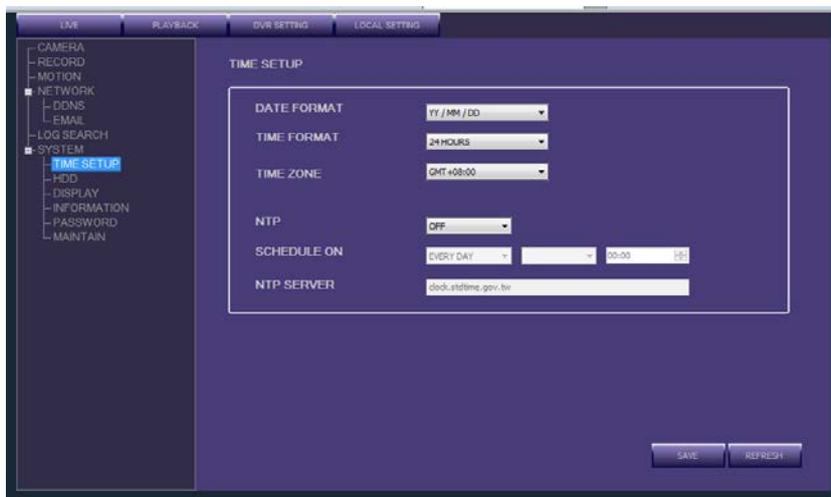
E-MAIL



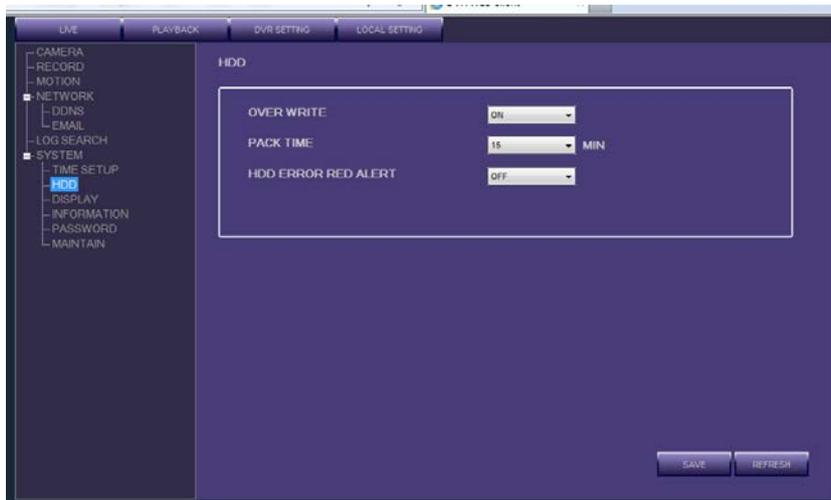
► Log search



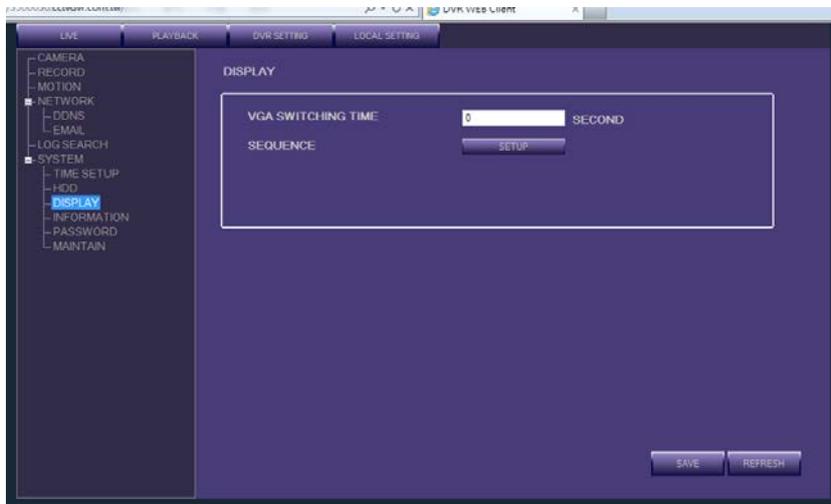
◆ System Setting
▶ Date/Time Setting



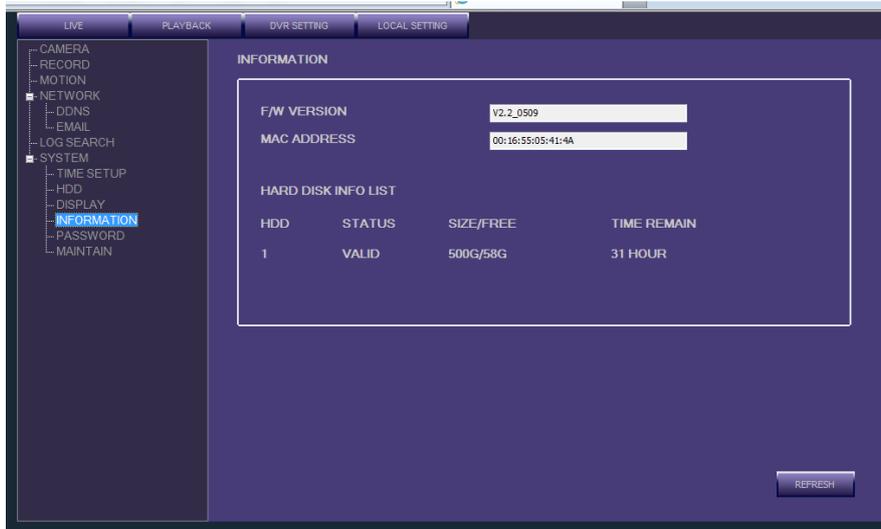
▶ HDD Management



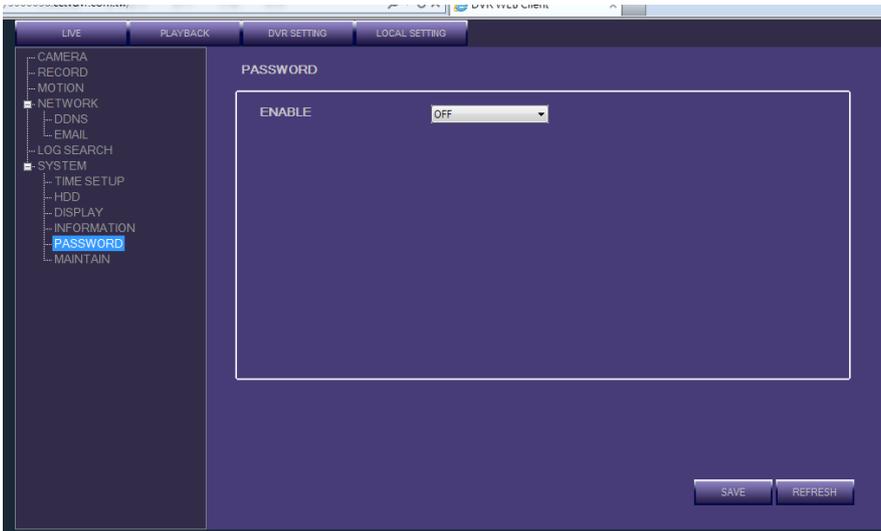
▶ Display



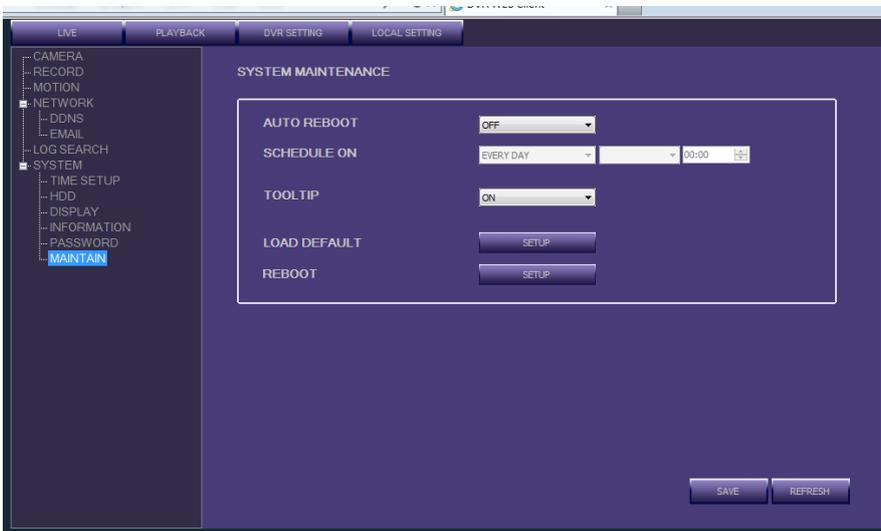
▶ System Information



▶ Account / password



▶ System Maintenance



◆ Host setting

The screenshot shows the 'LOCAL SETTING' tab in a software interface. The settings are as follows:

Setting Name	Value
RECORD SAVE PATH	c:\DVR\Record\
CAPTURE SAVE PATH	c:\DVR\Capture\
FILE SAVE PATH	c:\DVR\Download\
OCX VERSION	1.0.0.97
OCX PATH	C:\Windows\System64\FuDvrOcx.ocx
FILE SAVE TYPE	264 FILE
WATERMARK	OFF

Additional interface elements include buttons for 'TO AVI', 'DOWNLOAD MANUAL', 'DOWNLOAD DVR/OCX', 'DOWNLOAD PLAYER', 'Download Mobile Viewer', 'DEFAULT', and 'SAVE'.

11. Appendix

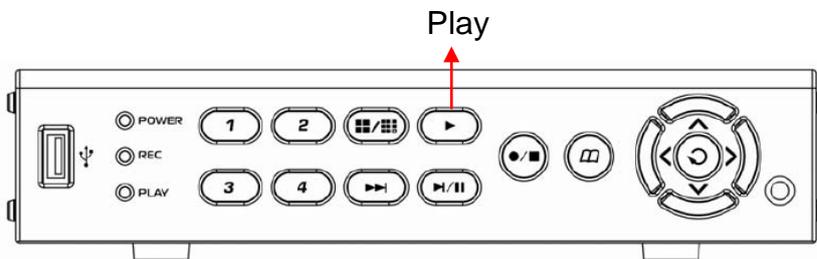
This appendix will show you how to do the basic operation step-by-step on search, playback, backup, network setup, email setup, and DDNS setup.

12.1 How to search and playback the footage step-by-step?

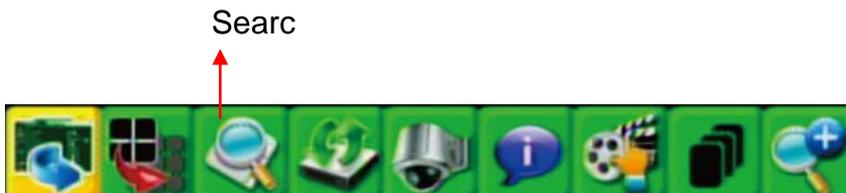
Step 1. Press the SEARCH button

There are two ways to enter the search menu.

Option 1: If you are using the front panel or remote control, please press the “Play” button to enter the search menu.

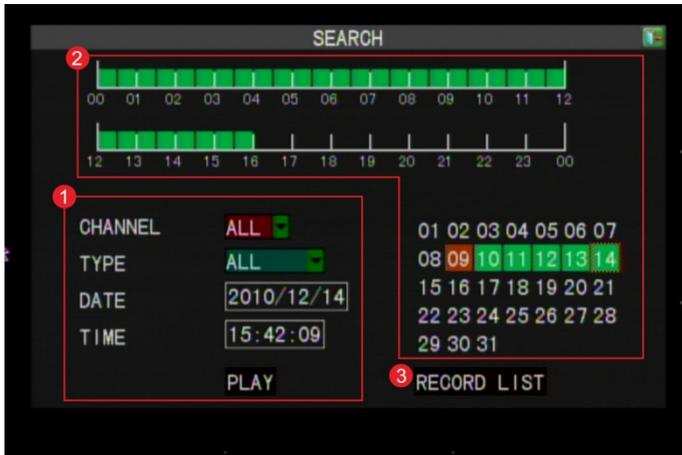


Option 2: If you are using USB Mouse, please click right button of the mouse to open the quick menu bar, and press the “Search” option from the quick menu bar to enter the search menu.

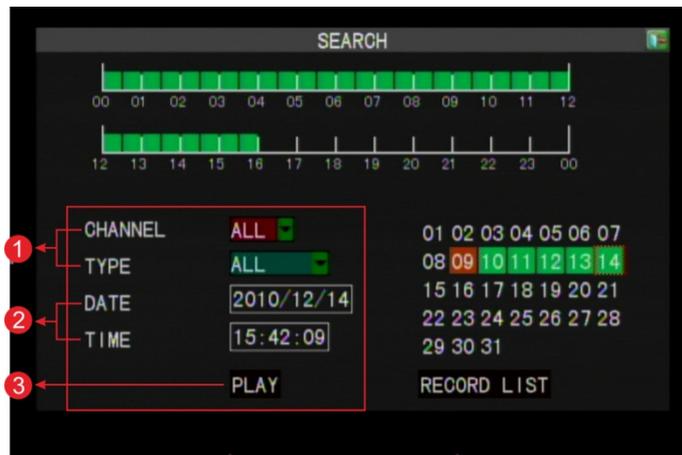


Step 2. Select the date & time to playback the footage.

Once you enter the search menu, you can have 3 optional selections to playback the footage as the picture below.



1. Date and Time Search

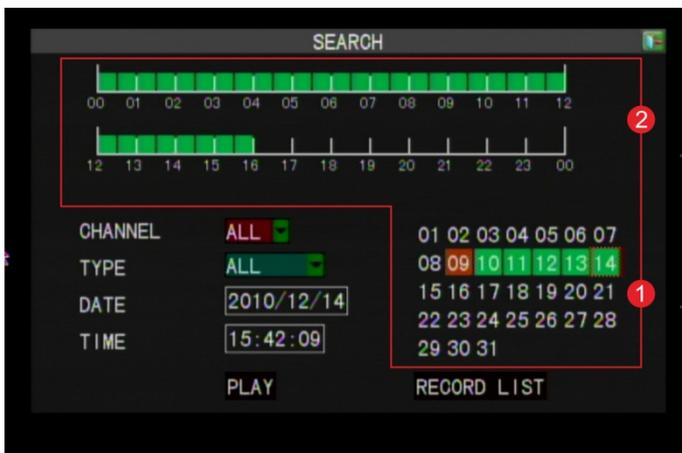


1.1 Select the channel and type of event that you wish to playback.

1.2 Enter the date & time that you wish to search.

1.3 Click PLAY button to playback.

2. Calendar Search



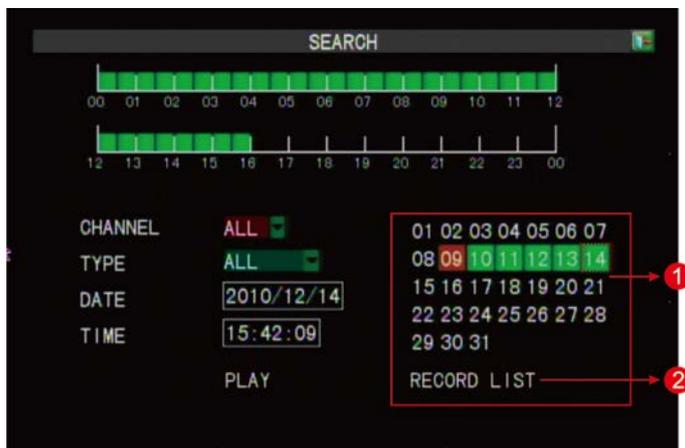
- 2.1 Select the specified date from the calendar selection,
- 2.2 Select the specified time from the 24hours time bar selection.

Note:

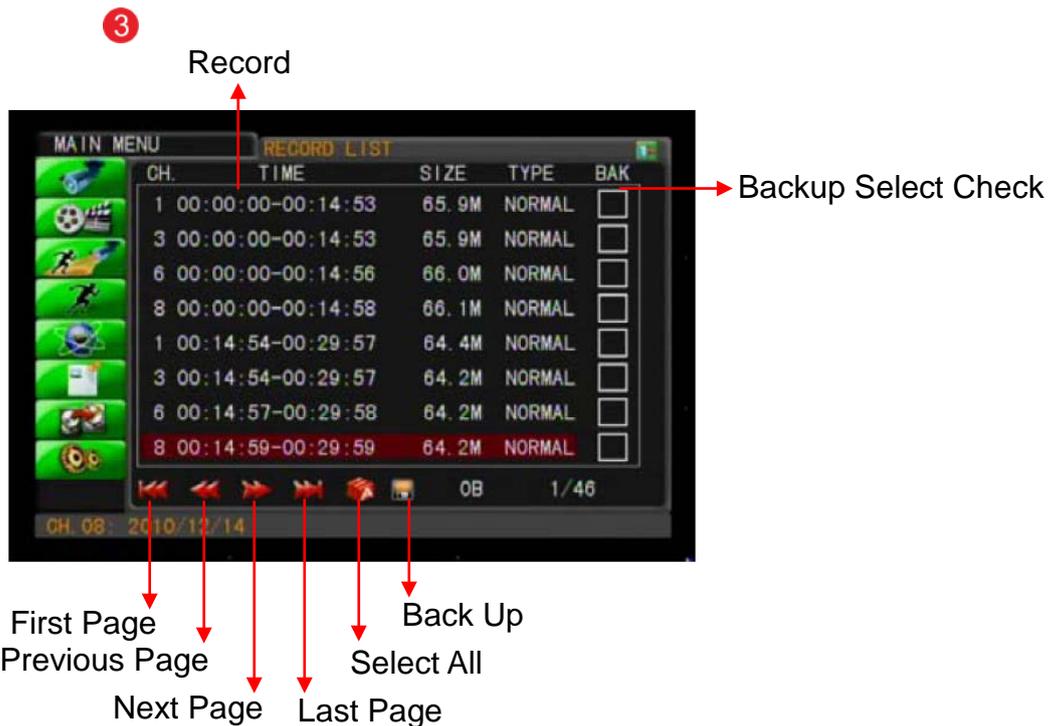
- No data: NO color; data of alarm trigger: **Red color**; normal record data: **Green color**
- Each hour is divided into 2 time frames, 1st and 2nd half of the hour, 00min:00sec to 30min:00sec and 30min:00sec to 60min:00sec respectively.
- Select the first half of the time frame of the date, the playback will start from 00 mins: 00 sec. Select the second half of hour frame under the date, the playback will start from 30mins:00sec. if there is no data on the date, please try to search from the record list.

2.3 Once you select the specified date and time, click PLAY to playback

3. Record List Search



- 3.1 Select the date you wish to search.
- 3.2 Click RECORD LIST to enter record list selection menu.
- 3.3 Double click the event from the list to playback.



Step 3. Channel Selection.

Check on the channels you wish to playback, and then click PLAY.

8CH DVR

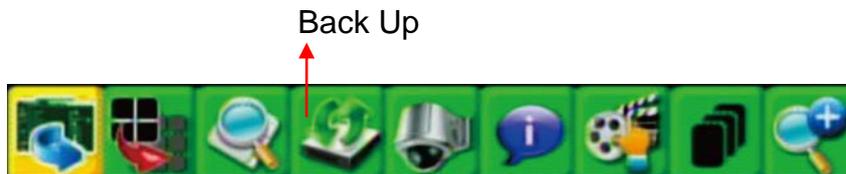


12.2 How to backup the footage step-by-step?

Step 1. Click the BACKUP button

There are two ways to enter the BACKUP menu.

Option 1: Click the right button of the mouse to open the quick menu bar, and press the “BACKUP” option to enter the search menu.



Option 2: Click the right button of the mouse to open the quick menu bar and select MAIN MENU. Press the “Backup” option from the main menu.



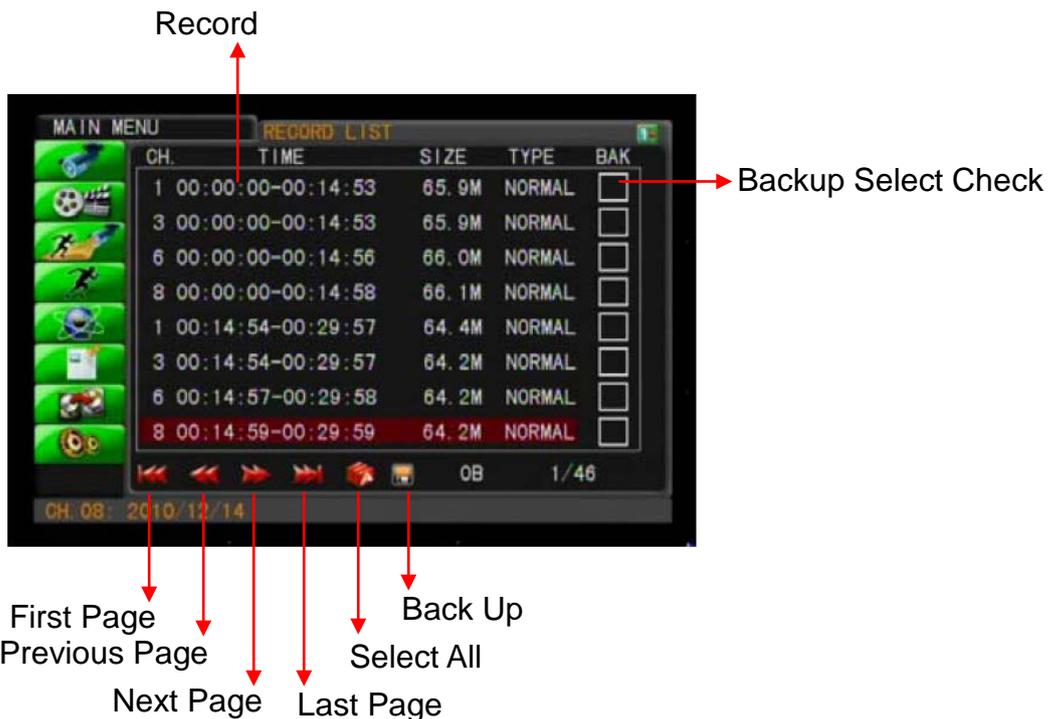
Step 2. Specify the desired channels, type, start date and time, and end date and time, then press SEARCH.



Step 3. Select channels to backup.

- 3.1 Double click the event to preview the footage before backup.
- 3.2 Select the events you wish to backup by marking on “BAK” check box.

3.4 Click the backup button  to storage device page.



Step 4. Choose the storage device.

- 4.1 Plug in the USB flash memory stick into the USB port of DVR.
- 4.2 Once the DVR detects the USB flash memory stick, it will show the data size and free space on the screen.
- 4.3 If there is lack of free space, you may try to format the USB flash memory stick first by clicking on FORMAT USB DISK
- 4.4 Once everything is ready, click on BACKUP to proceed.

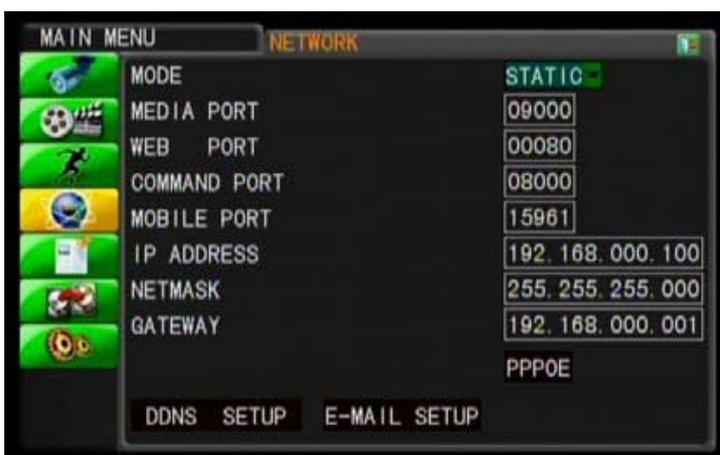


Step 5. Start Backup the file.

Once you click the “BACKUP” button, the DVR will start to backup. When the processing bar reaches to 100%, the backup process is completed.



12.3 How to setup the Network step by step?



Decide your network environment

In Network setting, you can choose the connection type from Static, DHCP, or PPPoE(which allow you to dial up by ADSL modem or 3G dongle). Below is an explanation of how you can configure your DVR to fit your network environment.

12.3.1 Static

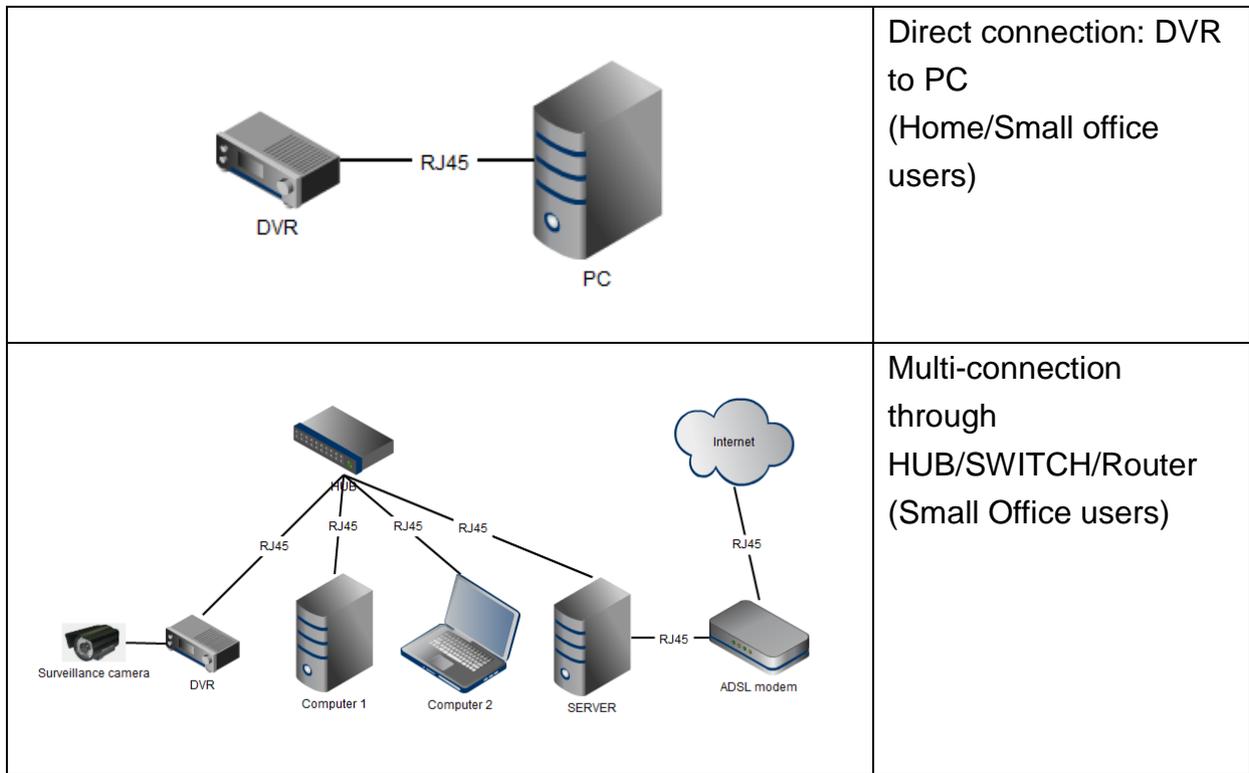
Each network device has its own IP address. An IP address is like a doorplate of the device, helping data to be delivered to the correct destination. An IPv4 address contains 32 bits, which are divided into four parts, each part separated by a dot, such as 255.255.255.0.

The following three blocks of the IP address space are reserved for private Internets (local networks):

- 10.0.0.0~10.255.255.255
- 172.16.0.0~172.31.255.255
- 192.168.0.0~192.168.255.255

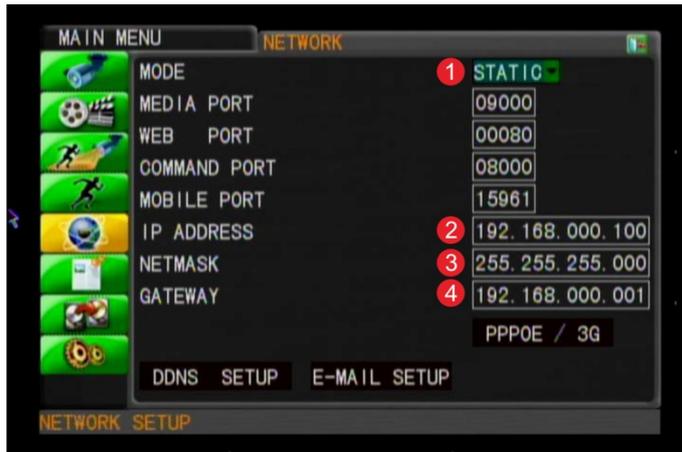
In Static mode, you have to assign the IP address for each device (e.g. your DVR and PC)

Reference Network environment for Static IP situation



Here is an example of how to set up connection between the DVR and your PC.

Step 1: Set your DVR network mode to static mode



1. Change the connection type to “STATIC” in DVR’s network setting
2. Assign the IP address to the DVR

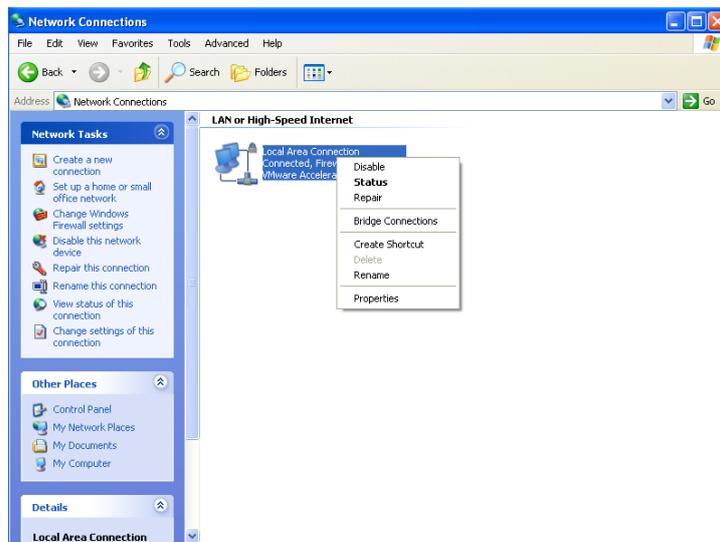
Note: Be sure not to set up a duplicated IP address for the DVR. For example, if you assign 192.168.0.100 to the PC, please change the IP address of the DVR to 192.168.0.101

3. Set the Netmask of the DVR: ***The address must be the same as the PC’s setting.***
4. Set the Gateway of the DVR: ***The address must be the same as the PC’s setting.***

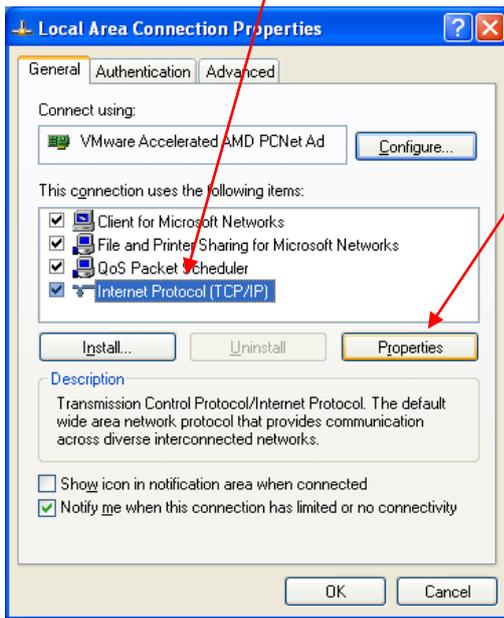
Step 2: Modify your PC’s network setting to correspond to the DVR

For WINDOWS XP:

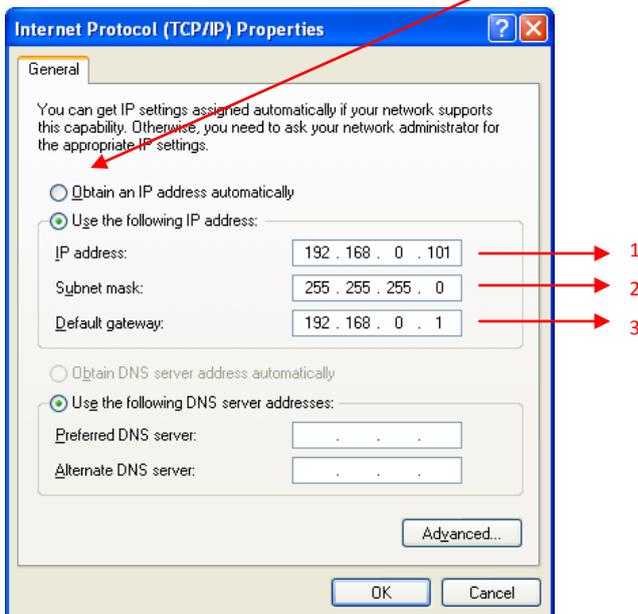
Start→Control Panel→ Network and Internet Connections→Network Connections
Find your network adaptor and click the right button and choose “Properties”



Find “Internet Protocol (TCP/IP)” and click the “Properties” to enter the setting menu



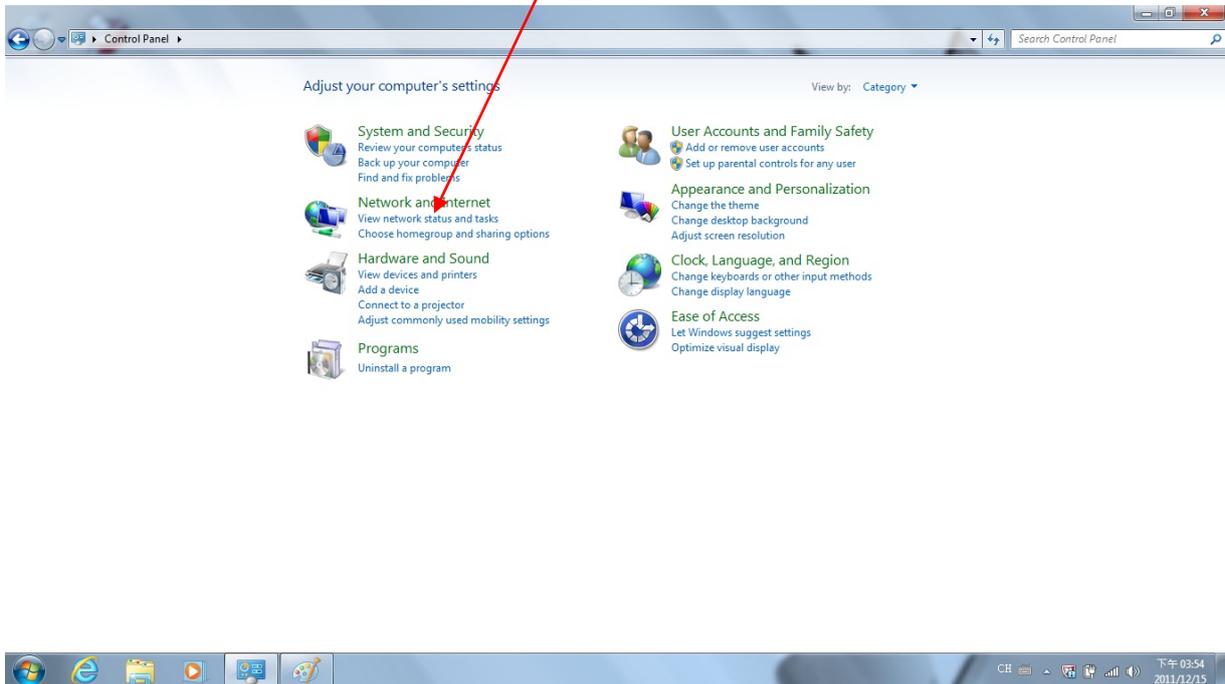
In the following menu, choose “Use the following IP address” to set up IP address manually



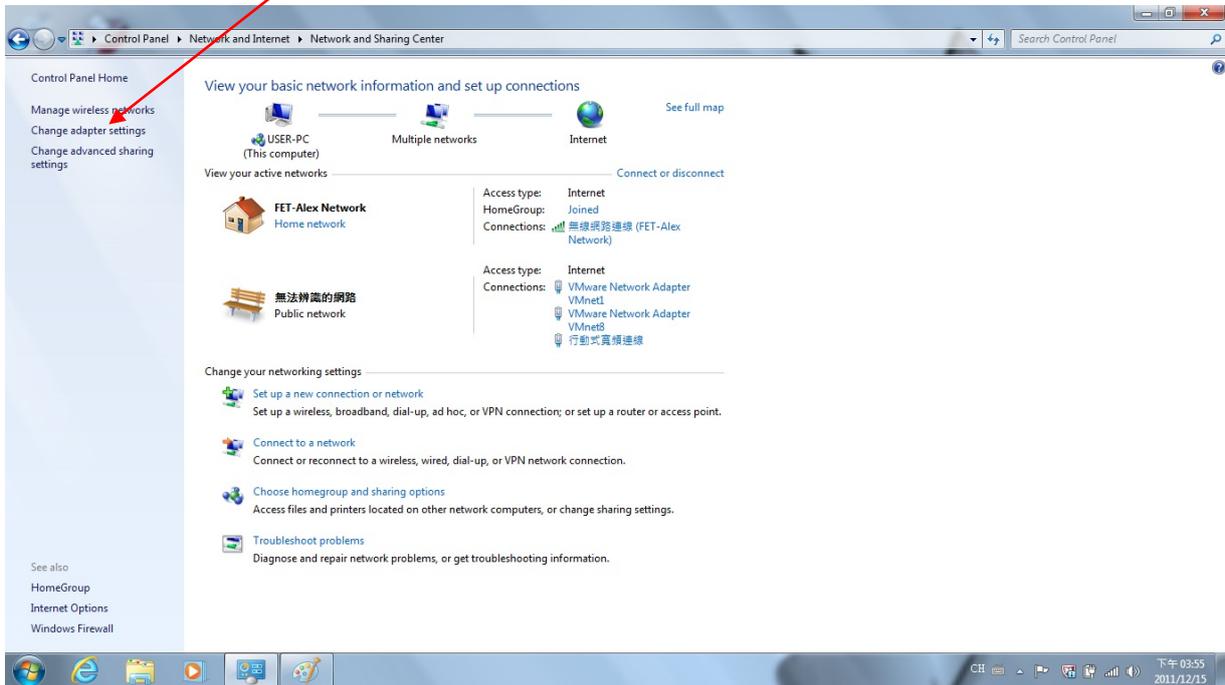
- 1) Enter the IP address for your PC. Be sure not to set up a duplicated IP address with any other network devices.
- 2) Enter Subnet mask address. This address should correspond to the Netmask address of your DVR.
- 3) Enter Default gateway address. This address should correspond to the Gateway address of your DVR.

For WINDOW 7

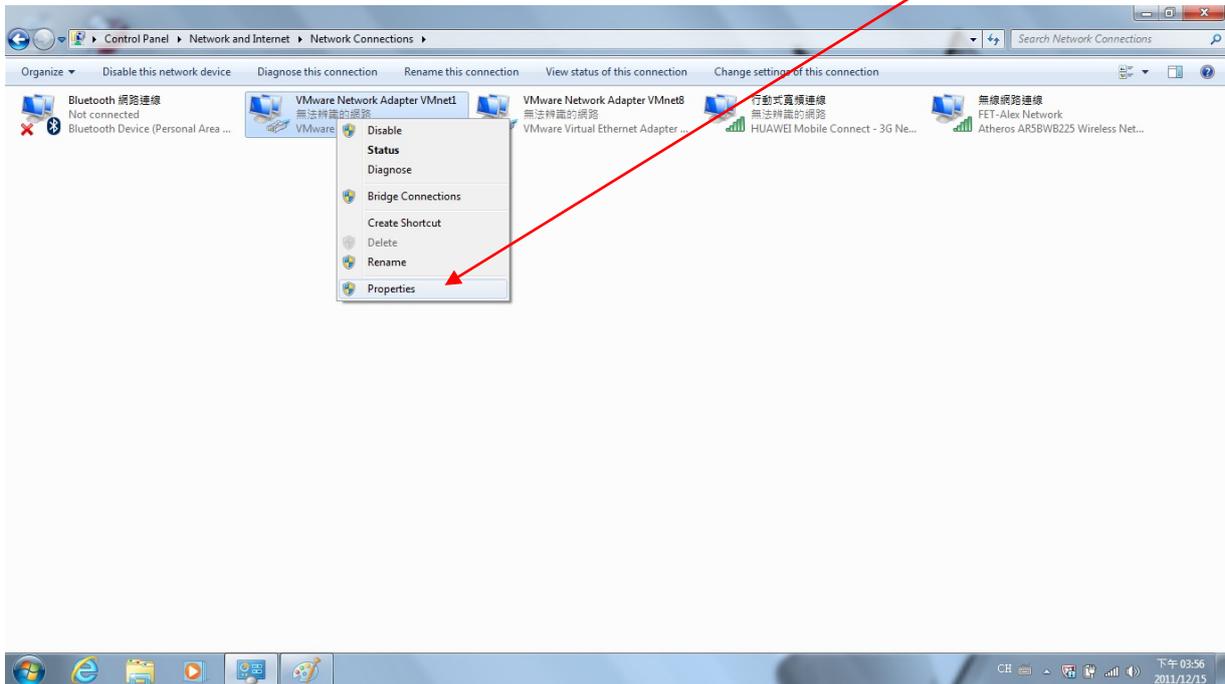
Start→Control Panel→View network status and tasks→click and enter the next menu



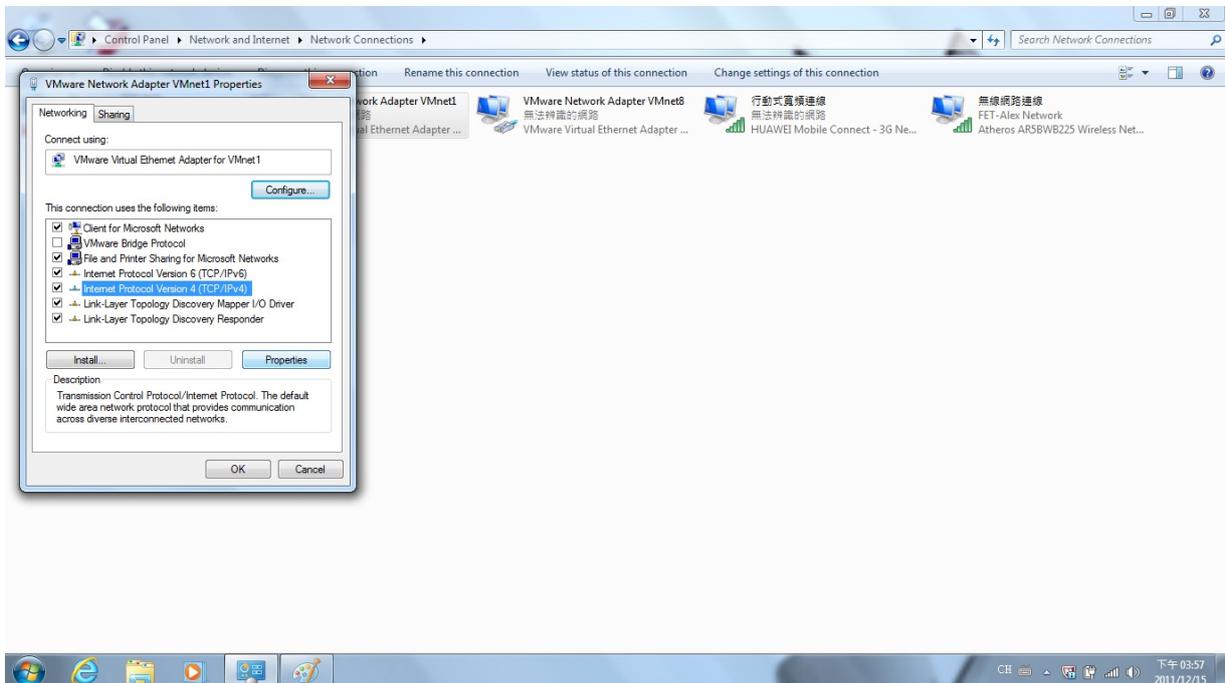
Click "Change adapter settings" at the left column



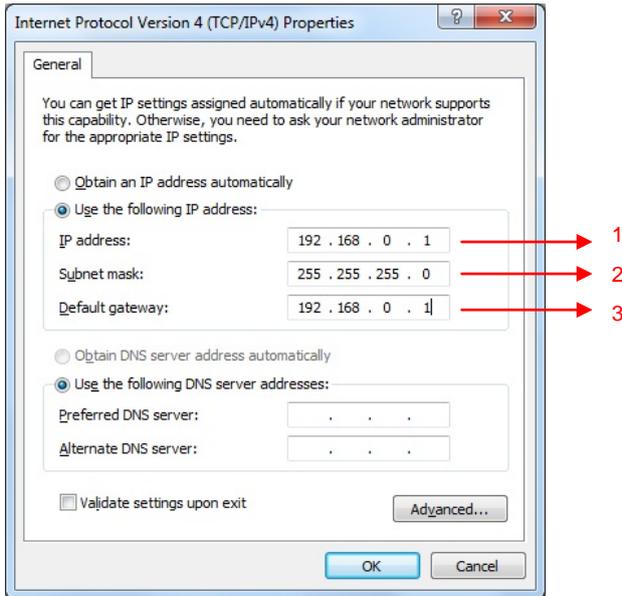
Find the network adapter and right click the mouse button and click the “Properties” to enter the setting menu



Find Internet Protocol Version 4(TCP/IPv4) and click “Properties”



In the following menu, choose “Use the following IP address” to set up IP address manually

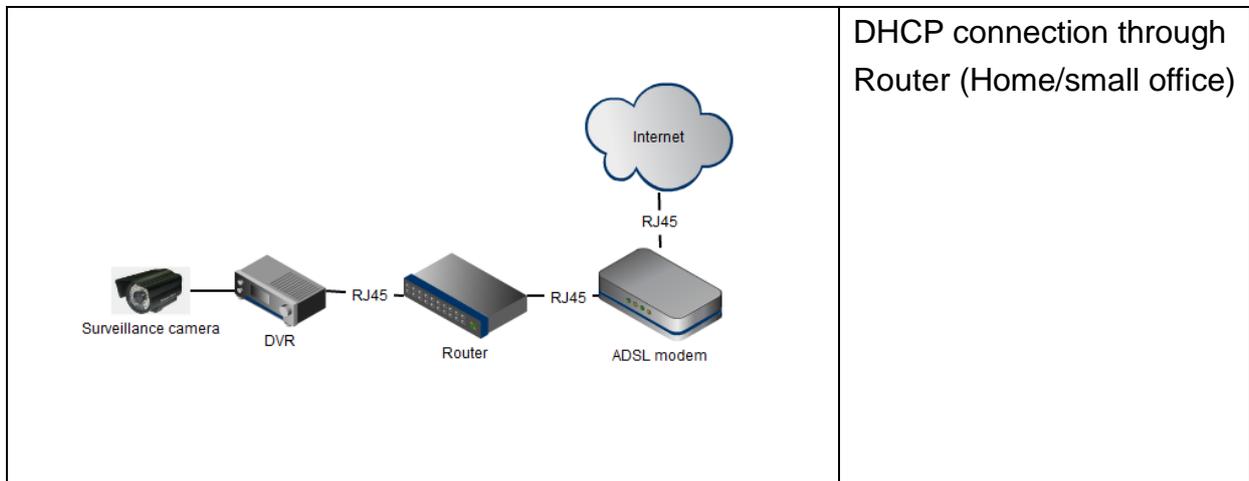


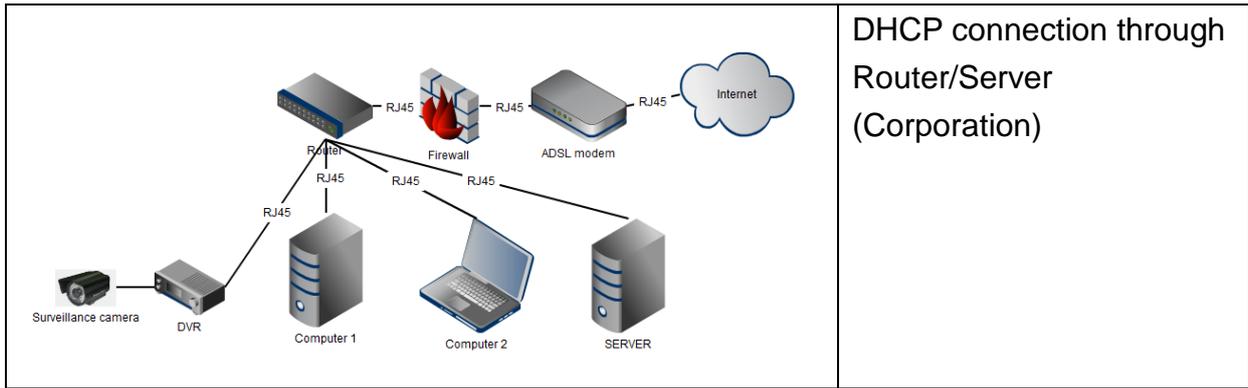
- 1) Enter the IP address for your PC. Be sure not to set up a duplicated IP address with any other network devices.
- 2) Enter Subnet mask address. This address should correspond to the Netmask address of your DVR.
- 3) Enter Default gateway address. This address should correspond to the Gateway address of your DVR.

12.3.2 DHCP

DHCP (Dynamic Host Configuration Protocol) automatically assigns a valid IP address to a network device on the Internet. Allocating a fixed IP address for each device will result in idle IP addresses when the devices are not in operation. Therefore, DHCP can make more efficient use of the IP addresses. To use this feature, you have to have a PC or router to be set as DHCP server to provide the service.

Reference Network environment for DHCP situation

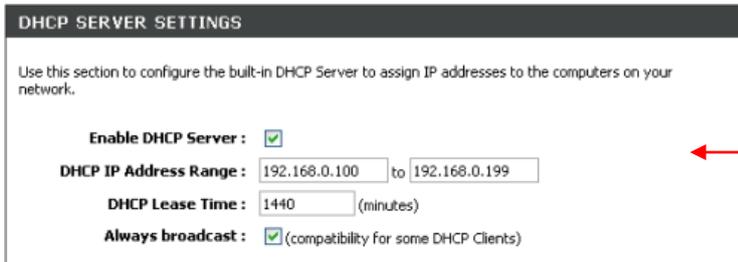




DHCP connection through Router/Server (Corporation)

Here is an example of how to set up connection between the DVR and your PC in DHCP mode

Step 1: Set up your router/DHCP server. For details, please consult your MIS staff or check the manual of the router.



← DHCP SERVER Setting in DIR-615 (D-Link)

Step 2: Set your DVR network mode to DHCP mode



①

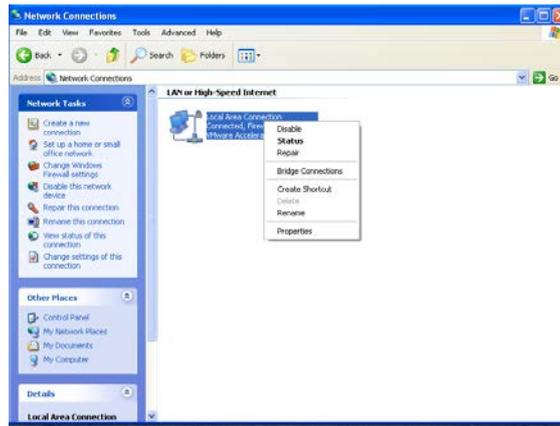
1. Change the connection type to "DHCP" in DVR's network setting
2. If the router is correctly set, the DVR should be able to get the IP address from the router automatically.

Step 3: Modify your PC's network setting to DHCP mode

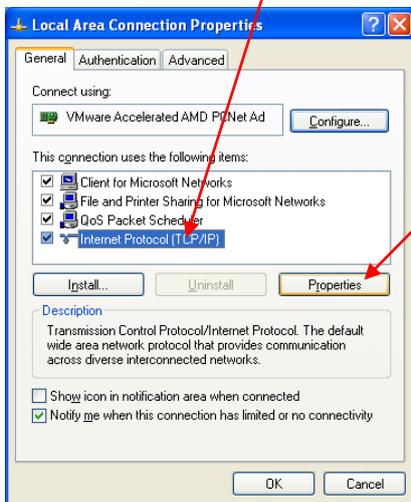
For WINDOWS XP:

Start→Control Panel→ Network and Internet Connections→Network Connections

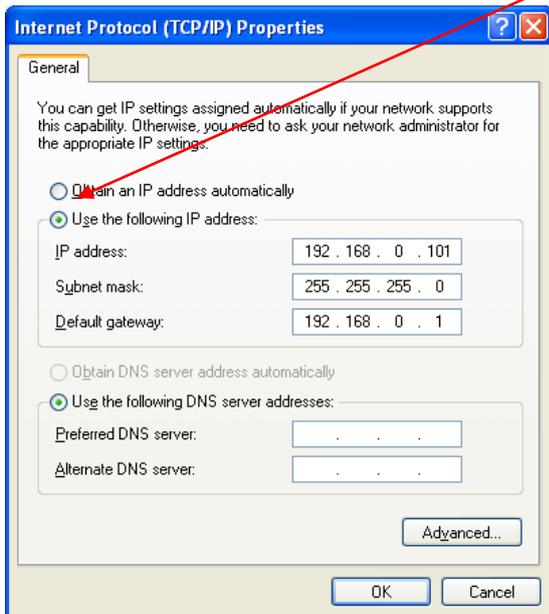
Find your network adaptor and click the right button and choose “Properties”



Find “Internet Protocol (TCP/IP)” and click the “Properties” to enter the setting menu

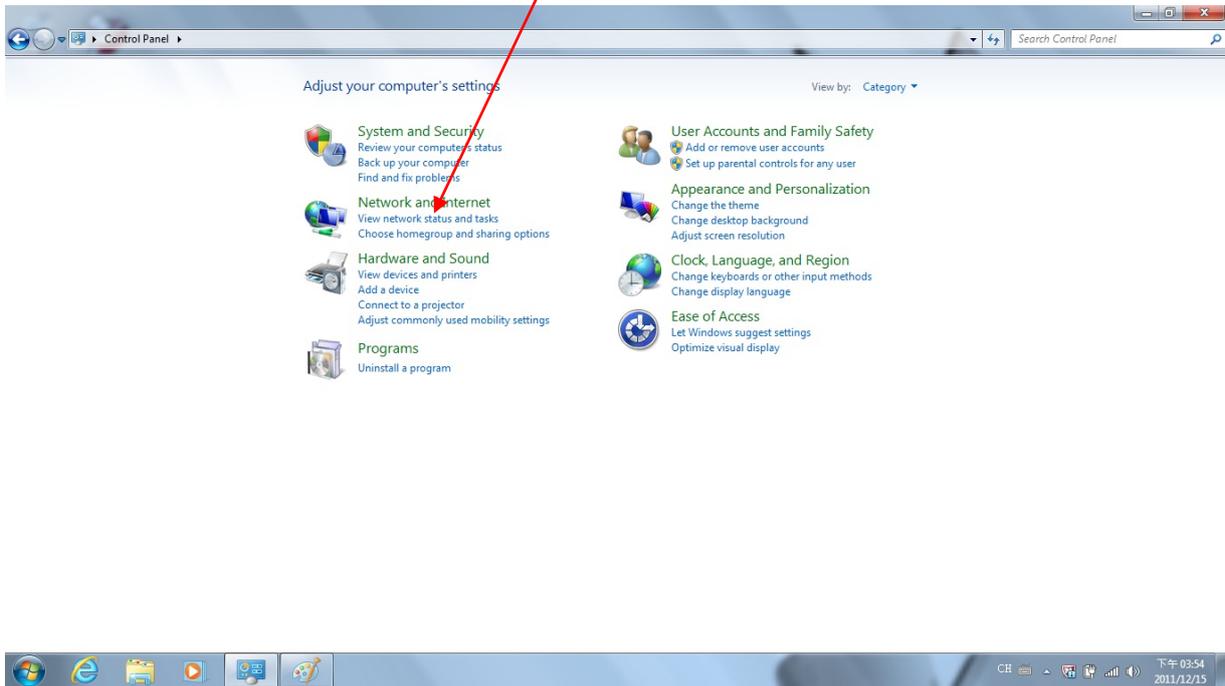


In the following menu, choose “Obtain an IP address automatically”

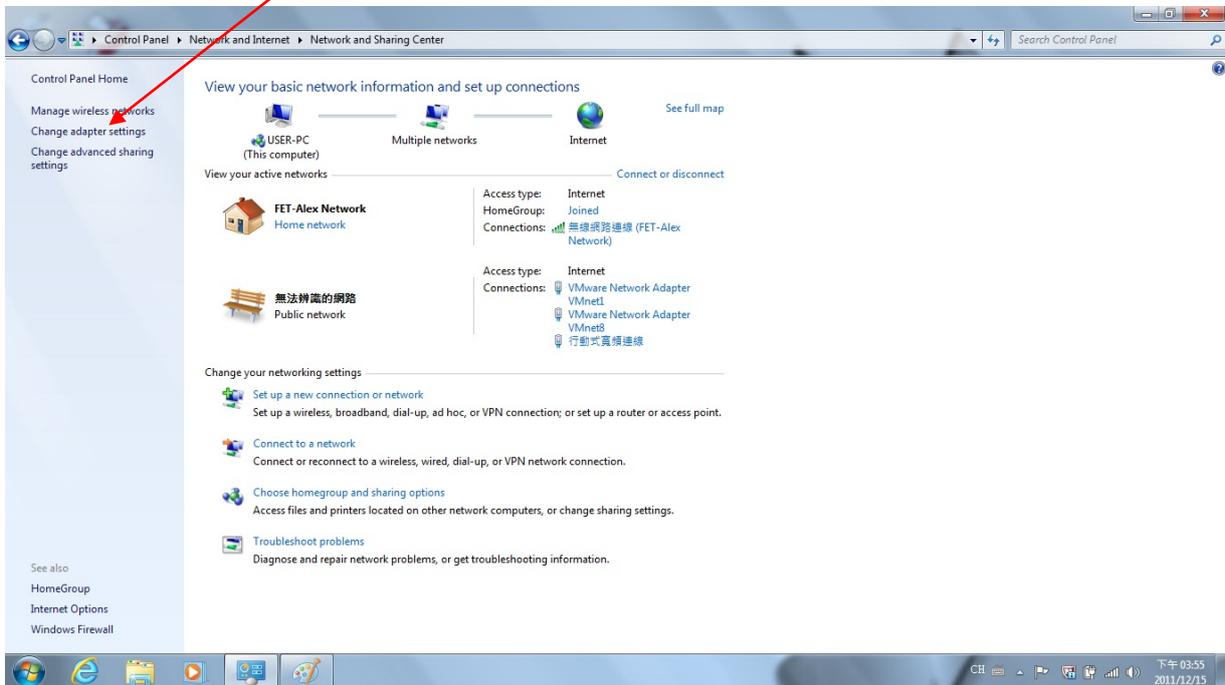


For WINDOW 7

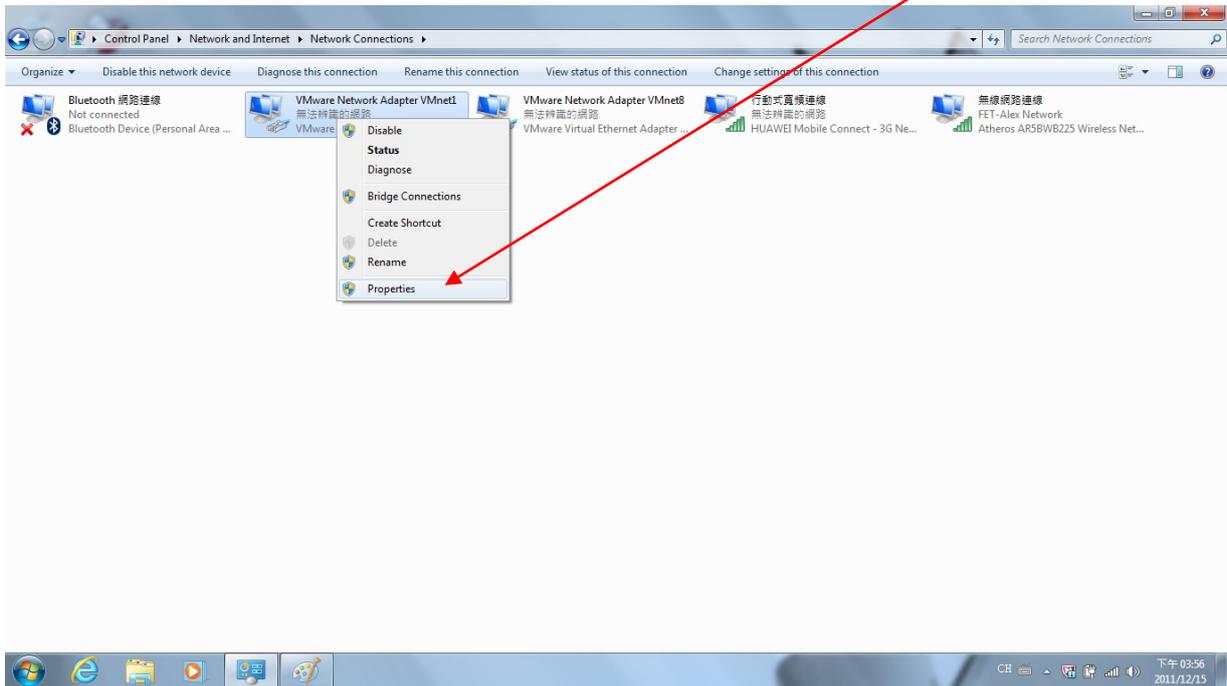
Start→Control Panel→View network status and tasks→click and enter the next menu



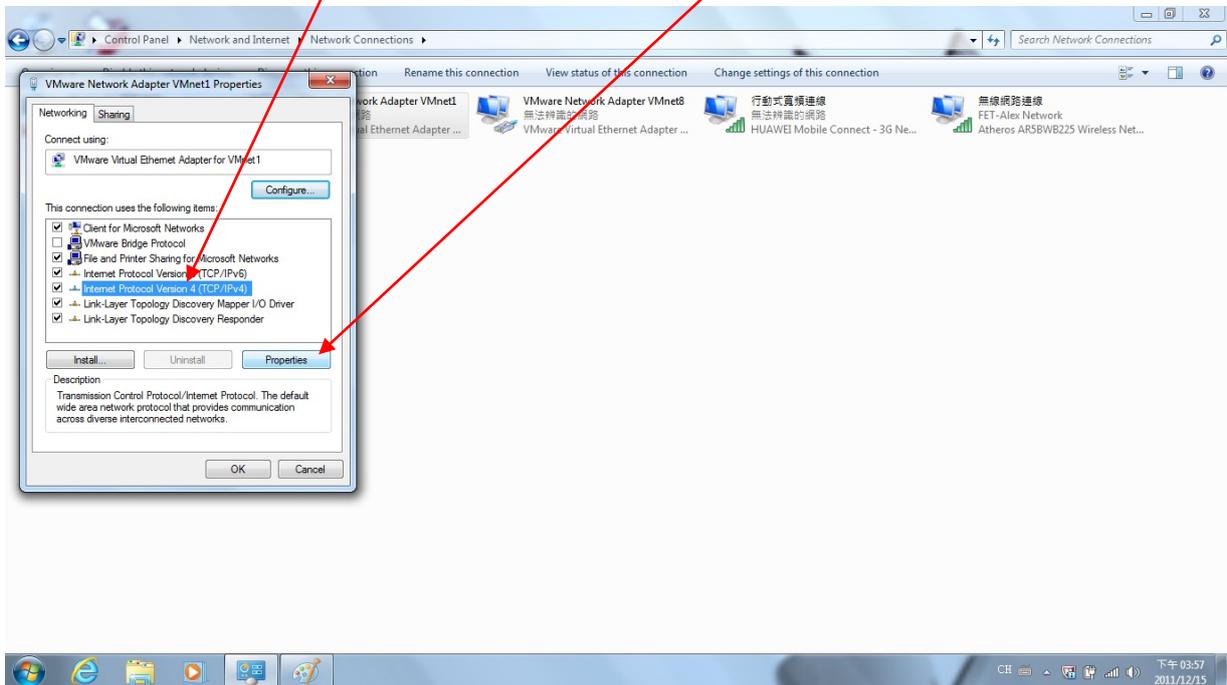
Click "Change adapter settings" at the left column



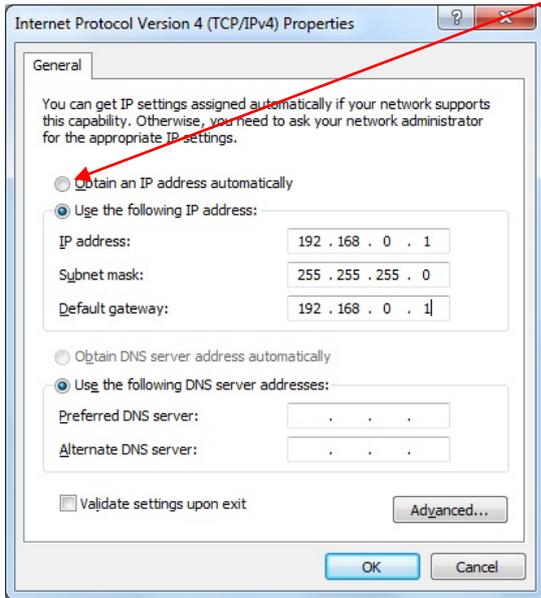
Find the network adapter and right click the mouse button and click the “Properties” to enter the setting menu



Find “Internet Protocol Version 4(TCP/IPv4)” and click “Properties”



In the following menu, choose “Obtain an IP address automatically”



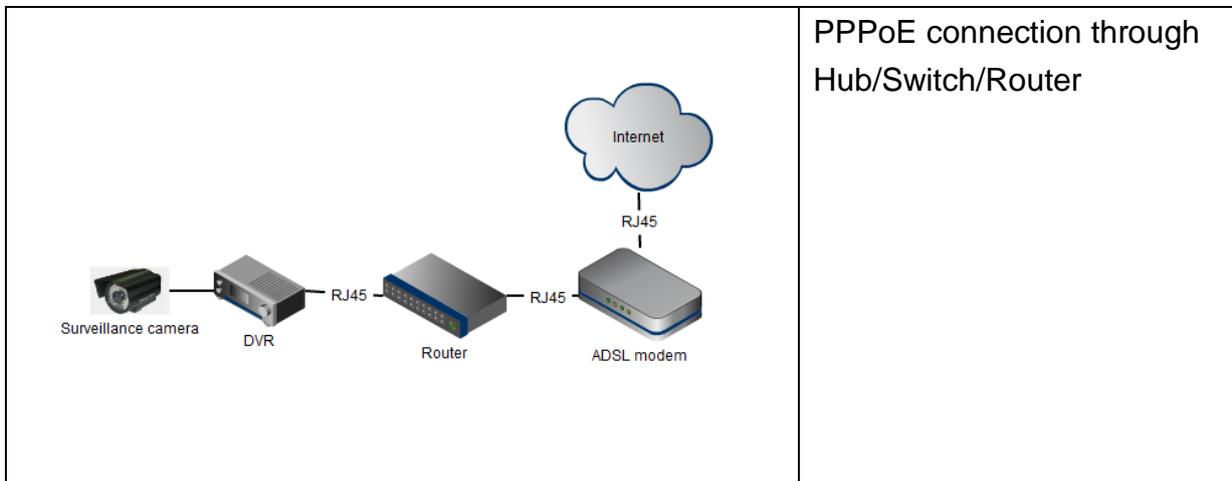
If the router/DHCP server is set correctly, you should be able to connect to DVR from your PC successfully.

Note: The IP address assigned to DVR would be varied when the router restarts or after a period of time. If you want to assign a fixed IP address to the DVR, please check with your MIS staff or the manual of the router.

12.3.3 PPPoE

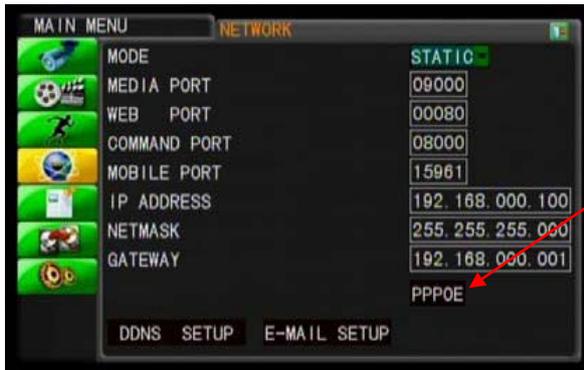
PPPoE (Point-to-Point Protocol over Ethernet) is a protocol that enables connections between a DSL modem and the Internet. This service is provided by ISP (Internet Service Provider).

Reference Network environment for PPPoE situation

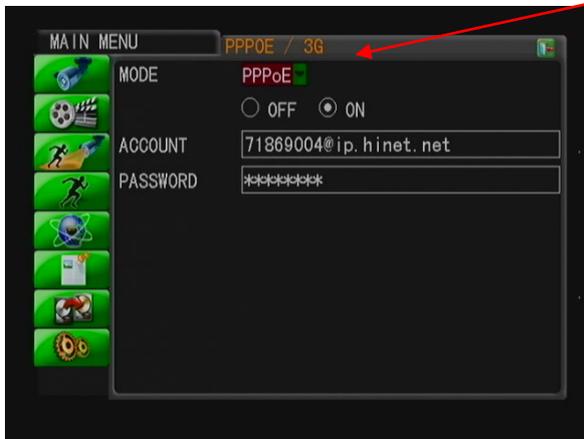


How to set up a PPPoE connection for your DVR?

Step 1: In Network setting menu, set the mode to “STATIC” and click the “PPPOE” to enter the setting menu.



Step 2: In PPPoE/3G setting menu, set the mode to “PPPoE” and choose “ON” to enable it.

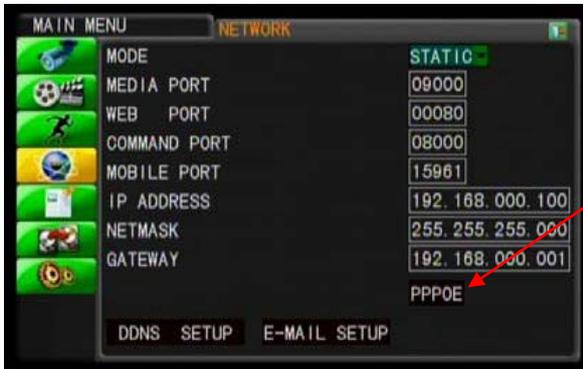


Note: for account and password information, please check with your internet service provider.

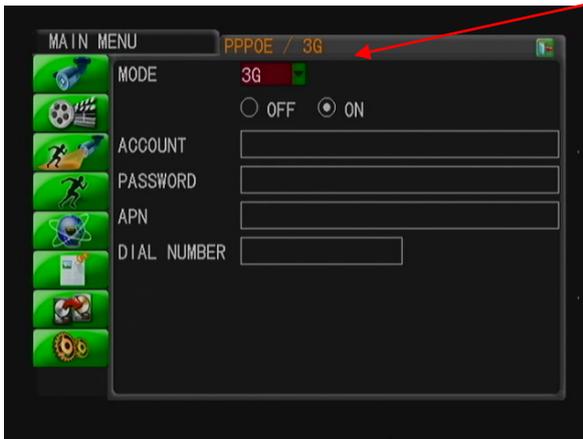
12.3.4 How to set up a 3G connection for your DVR?

(Note: for supported USB 3G dongle, please check with the manufacturer for latest information).

Step 1: In Network setting menu, set the mode to “STATIC” and click the “PPPOE” to enter the setting menu.



Step 2: In PPPoE/3G setting menu, set the mode to “3G” and choose “ON” to enable it.



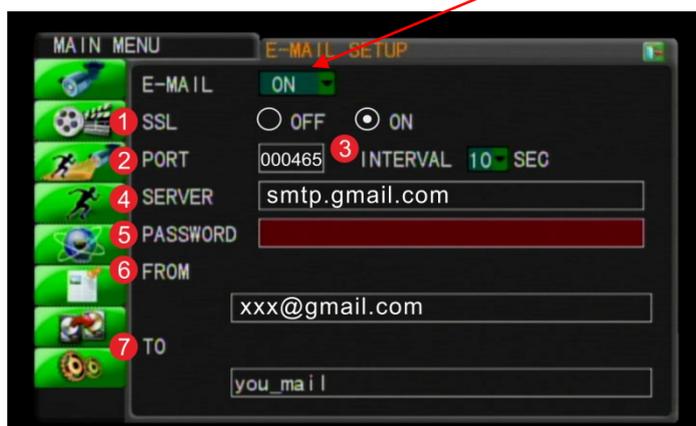
Note: for dial up information, please check with your telecom company for details.

12.4 Email Setup

In DVR, you can set up an email reminder for situations like motion, alarm, etc. In the following section, we will illustrate how to set it up by using Gmail.

Step 1: In Network setting menu, click on “E-MAIL SETUP” and enter the following menu

Step 2: Enable the email function by choosing “ON” in E-mail Tab



Step 3:

① SSL: (Secure Sockets Layer) This is used to secure the internet transmission.

For Gmail, you should turn this on. For other email settings, please consult your email service provider.

② Port: Default value is 25 and is commonly used for most email server. For Gmail, please set the value to 00465

③ Interval: The time interval between each email being sent

④ Server: your email server. Please noted that this must be your outgoing email server. For Gmail, use **smtp.gmail.com**

⑤ Password: your password for your email address

⑥ From: Your email address as the mail sender. In Gmail, it's like xxxx@gmail.com

⑦ To: The email recipient

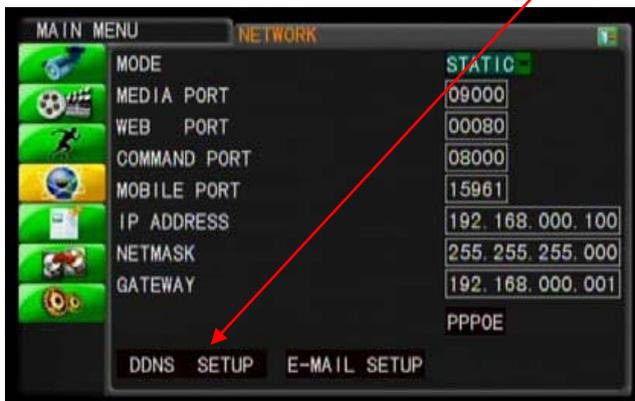
Note: Not every email server provide the service to relay the email to your email recipient. Please consult your email service provider for more details.

12.5 DDNS Setup

DDNS: (Dynamic DNS). It is an service to provide the updating in real time of Internet Domain Name System (DNS) name servers to keep up to date the active DNS configuration of their configured hostnames, addresses and other information.

In DVR, you can apply a DDNS service for a dynamic IP address. This will help you to use a fixed site address (such as name.idv) to find your DVR so you don't have to remember the floating IP address (such as 192.168.111.143)

To set up the DDNS service, click on "DDNS Setup" in Network setting menu



DDNS Setting menu



① DNS1&2: This is used for your DNS server. The default value is 168.095.192.001 and 168.095.001.001. If you don't your DNS server provider, just use the default values for them.

② DDNS: To enable the DDNS service. Please select "ON" to enable it.

③ DDNS SERVER: You can choose DDNS service provider from 3322, *dyndns*, or *cctvdvr*

④ The host name you applied in the DDNS service provider. For example, *xxxx.dyndns.org* or *xxxx.cctvdvr.com.tw*

⑤ Username: the username you used for DDNS service.

⑥ Password: password you used for DDNS service

Below we will explain how to apply a DDNS service through DynDNS

1. Go to <http://www.dyndns.com>
2. Click on DynDNS standard to apply a dyndns account

The screenshot shows the Dyn website's product page. At the top, there's a navigation bar with the Dyn logo, DNS, EMAIL, and LABS links, along with a search bar and social media icons. Below this is a dark banner with the text "Managed DNS | Outsourced DNS | Anycast DNS".

The main content area features a headline: "Our mantra of **Uptime Is The Bottom Line** exists for a reason. From enterprise DNS for major brands to getting yourname.dyndns.org with **DynDNS Pro** DNS has been part of our DNA for over 10 years."

Three service packages are highlighted in dark boxes with yellow "GET STARTED" buttons:

- Standard** (Dyn Standard DNS): as low as \$30/yr. Features include: Unicast Network with 5 global datacenters, Simple Web User Interface, Phone and email support, Up to 600k queries/mo, and Up to 75 DNS records per domain.
- Enterprise Lite** (DynECT Managed DNS Lite): as low as \$30/mo. Features include: Three different packages: 10, 25 and 50 Zones; IP Anycast DNS with 17 global datacenters; Advanced user interface; World-class, 24/7/365 support; API integration with SOAP and REST; DNSSEC and IPv6 support; and No hard limit on usernames.
- Enterprise** (DynECT Managed DNS): as low as \$195/mo. Features include: IP Anycast DNS with 17 global datacenters; Advanced user interface; World-class, 24/7/365 support; API integration with SOAP and REST; DNSSEC and IPv6 support; 90th percentile usage billing (decreases overages); Advanced reporting and statistic monitoring; Active Failover (Advanced); Round Robin Load Balancing (Advanced); GSLB Traffic Management (Advanced); Real Time Traffic Management (Advanced); CDN Manager (CDNME balancing) (Advanced); Reseller, white-label and sub-account support; and Unlimited zones/DNS records/user logins.

Below the packages are sections for "What is it for?", "Who uses it?", and "What can it do?".

A blue banner at the bottom asks "Looking for yourname.dyndns.org?" with a "GET DYNDNS PRO NOW" button.

A red box highlights the "Additional Products" section, which includes:

- DynDNS Free**: Track your dynamic IP address.
- DynDNS Pro**: Never worry about your account expiring!
- Secondary DNS**: Redundant name service for your domains that you manage.
- Domain Registration**: Register new domains or transfer existing ones.

The footer contains links for "About Dyn", "Get Help", "Connect with Us!", and "Dyn" contact information, along with a copyright notice: "© 1998-2011 Dyn — Legal Notices — Privacy Policy".

3. Press on "ORDER NOW" to start applying

The screenshot shows the Dyn Standard DNS website. At the top, there is a navigation bar with the Dyn logo, icons for DNS, EMAIL, and LABS, and links for Support, Cart, and Sign In. A search bar is also present. The main heading reads "Dyn Standard DNS Uptime excellence begins with this all-in-one managed DNS solution." Below this, a yellow "ORDER NOW" button is highlighted with a red border. A breadcrumb trail shows the path: Home » Managed DNS, Outsourced DNS & Anycast DNS » Dyn Standard DNS. On the left, a navigation menu lists various services, with "Dyn Standard DNS" selected. The main content area features a section titled "The path to ensuring your website's uptime starts here." which describes the benefits of the service, such as 75 DNS records per domain name and 600,000 queries per month. Below this, a dark banner displays "Dyn Standard DNS" with a price of "as low as \$29.95/yr" and another "ORDER NOW" button. Further down, there is a section for "Additional & Add-on Features" including "WebHop". The footer contains links for "About Dyn", "Get Help", "Connect with Us!", and "Dyn" contact information, along with a copyright notice for 1998-2011 Dyn.

4. Select your wanted Hostname for your DVR

The screenshot shows the 'Add Zone Services' page on the Dyn website. The page title is 'Add Zone Services' and it includes a '+ Zones' button. The main heading is 'To setup a domain name, please enter the name you want to use (domain.com) and choose your services.' There are four main sections: 'Name Registration', 'DNS Services', 'Email Routing', and a 'Continue' button at the bottom. Annotations include: a red box around the 'Domain Name' input field with the text 'Input your wanted hostname for your DVR'; a red box around the 'Dyn Standard DNS' radio button with the text 'Note: If you are using firewall or router to connect DVR, please set the DDNS setting in FW/router, then use port forwarding in order to connect'; and a red box around the 'Continue' button with a red arrow pointing to it from the text '5. When finished, press "Continue" to proceed.' The footer contains links for 'About Dyn', 'Get Help', 'Connect with Us!', and 'Dyn' contact information, along with a TRUSTe logo.

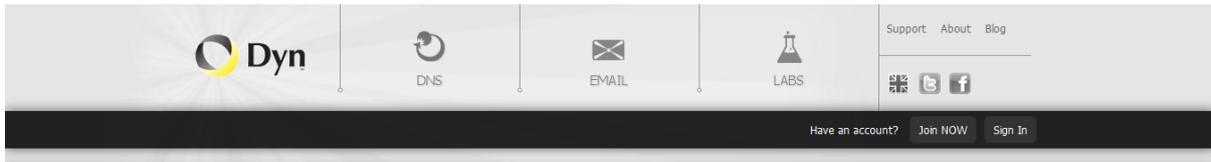
5. When finished, press "Continue" to proceed.

6. If you have never applied DynDNS service before, please create a new account first.

The screenshot shows the Dyn website's shopping cart interface. At the top, there is a navigation bar with the Dyn logo, icons for DNS, EMAIL, and LABS, and links for Support, About, and Blog. Below the navigation bar, the main content area is divided into two sections: 'My Account' on the left and 'Shopping Cart' on the right. The 'Shopping Cart' section displays a message: 'Host aetest.dynDNS.tv added to cart. Finish FREE checkout to activate.' Below this, there are 'Upgrade Options' and a table of 'Dynamic DNS Hosts' with one item: 'aetest.dynDNS.tv' for \$0.00. The 'Order Total' is \$0.00. A red box highlights the 'Create account or log in to continue checkout:' form, which includes fields for Username, Password, Confirm password, Email, Confirm Email, and a Security Image. There is also a checkbox for 'Subscribe to DynDNS.com newsletter' and a checkbox for 'I accept the terms of Dyn's Acceptable Use Policy, the Dyn Services Agreement, and Dyn's Privacy Policy.' A 'Create Account' button is located below the form. To the right of the form is a 'Log in' section with fields for Username and Password, and a 'Log in' button. A red arrow points from the 'Create Account' button to the footer of the page.

7. When finished, press “create account” to proceed.

- System will send you an email for confirmation. Please go to your email box and see if you have received it. There will be a link for you to confirm the application.

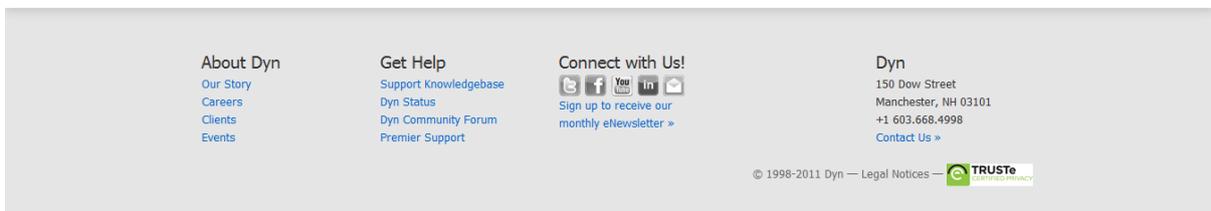


One more step to go...

We've sent an email to [REDACTED], to verify your account. Please check your inbox and click on the confirmation link.

If you do not receive the email in the next few minutes you can try [resending it](#).

Thanks for choosing DynDNS.com!



- Go to your DVR to set the DDNS setting. (I use IE for demonstration but in the DVR OSD, you can find the same setting there).

DDNS			
DDNS ENABLE	<input type="text" value="ON"/>		
SERVICE	<input type="text" value="dyndns"/>	HOST NAME	<input type="text" value="test.dyndns.org"/>
USER NAME	<input type="text" value="test"/>	PASSWORD	<input type="text" value="*****"/>

- Enable your DDNS service.
 - Choose the service to be “dyndns” (depending upon which DDNS provider you use)
 - Input the hostname for the DDNS. (e.g: test.dyndns.org)
 - Input the username for the DDNS. (e.g:test@gmail.com)
- NOTE: You might only need to input “test” instead of “test@gmail.com” depending upon which service provider you use.**
- Input the password for the DDNS

Then you can start using the DDNS service for your DVR

12. Default Setting

Item		Default Setting	Item		Default Setting
Record Setup	Channel	On	Network Setup	Mode	Static IP
	Resolution	Normal		Media Port	09000
	Frame Rate	Real-time		Web Port	00080
	Quality	Highest		IP Address	192.168.000.100
	Schedule	Always		Net Mask	255.255.255.0
				Gateway	192.168.000.001
Camera Setup	Channel 1	CH1	DDNS Setup	DNS	168.095.001.001
	Channel 2	CH2		DDNS	Off
	Channel 3	CH3	HDD Setup	Overwrite	Yes
	Channel 4	CH4		Pack Time	15 Mins
	Title Position	Top Left	Time Setup	Date Format	YY/MM/DD
	Display	On		Time Format	24 Hours
	Display Time	On		Time Zone	GMT+08:00
	Switching Time	1 sec.		Daylight Saving	Off
Camera Color Setup	Hue	25	E-MAIL Setup	E-MAIL	Off
	Brightness	25	System Maintenance	Maintenance Schedule Setup	Off
	Contrast	25			
	Saturation	25			
Motion Detection	Channel Status	Off			
	Sensitivity	5			

13. HDD Support List



2.5”HDD Caddy

Recommend use 2.5” 500GB capacity for HDD or below.

Suggest installing the Hard Driver listed below to make sure the compatibility.

Brand	Model Number	Capacity
SEAGATE	ST3250310CS	250G
	ST9500423AS	500GB
WD	WD5000BUCT	500GB
	WD5000LPVT	500GB
	WD5000BPKT	500GB
	WD5000LUCT	500GB
	WD10JUCT	1TB

14. 3G Data Rate

Brand	Model	Data Transfer Speed (bps)			Support	Verified
		WCDMA (3G) 2Mbps ~ 386kbps	HSDPA (WCDMA 3.5G)	HSUPA (WCDMA 3.75G)		
Huawei	E1550	-	3.6M	384k	Yes	Pass
	E160G	-	3.6M	384k	Yes	Pass
	E1750	-	7.2M	5.76M	Yes	Pass
	E220	-	3.6M	384k	Yes	Pass
	E156G	-	3.6M	384k	Yes	Pass
	E173	-	7.2M	5.76M	Yes	Pass
	E1820	-	21.6M	5.76M	Yes	Pass
ZTE	MF626	-	3.6M	384k	Yes	Pass
	MF627	-	3.6M	384k	Yes	Pass
	MF631	-	7.2M	5.76M	Yes	Pass
	MF637	-	7.2M	5.76M	Yes	Pass
	MF112	-	7.2M	2M	Yes	Pass
	MF180	-	3.6M	384k	Yes	Pass

