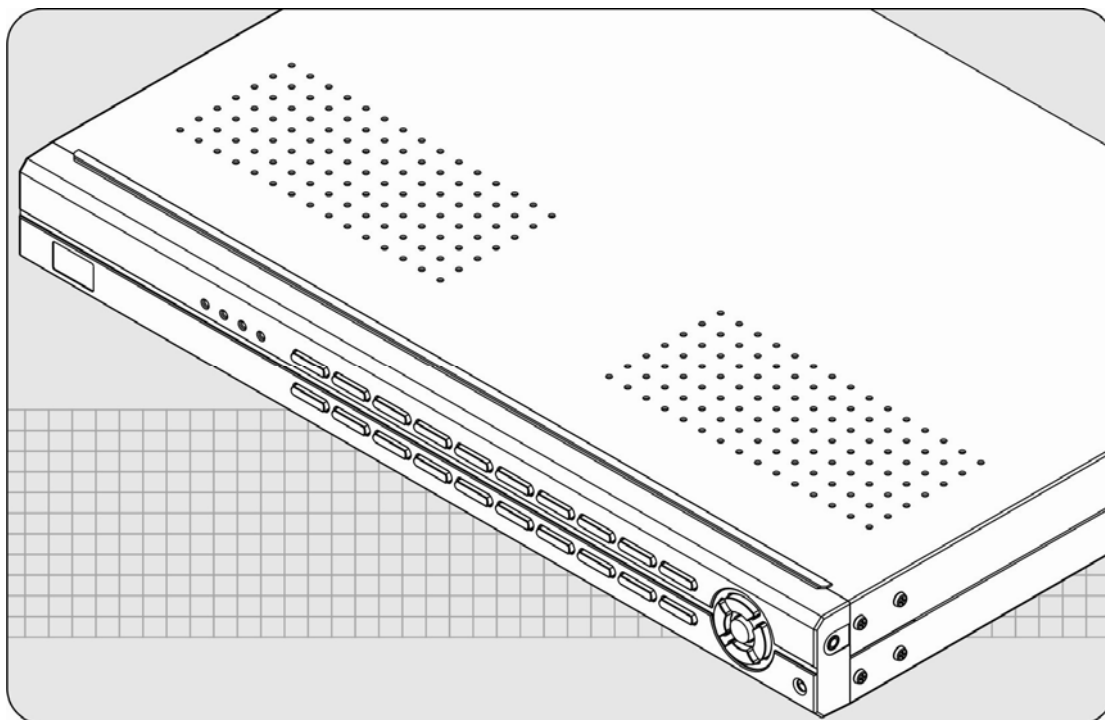


16CH H.264 Digital Video Recorder

User's Manual



STANDALONE DVR SYSTEM

2011 MAY V1.2





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.
- Do not open the covers or insert any object into DVR.



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 (100V/240V) is set to appropriate setting before plug in!	
--	--	--

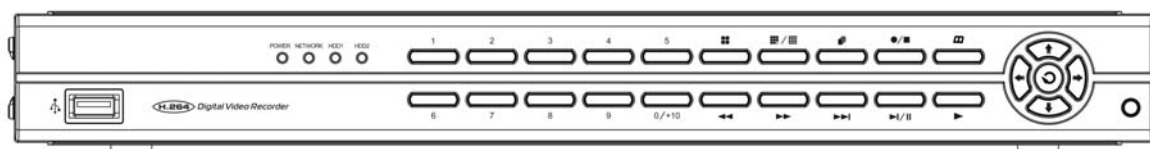
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1. Specification

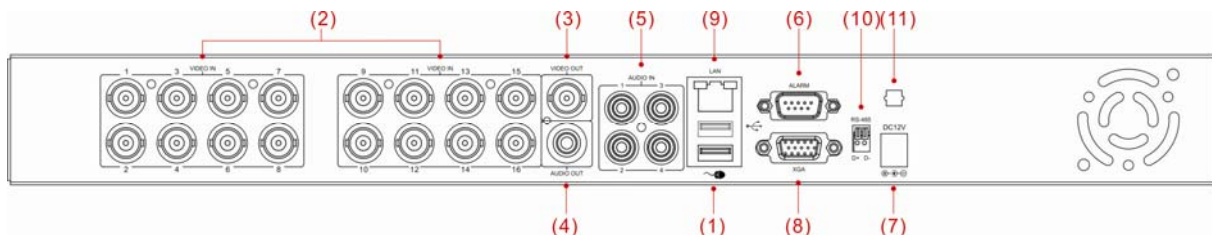
Video Format		NTSC	PAL
Video Input		16 CH Input / BNC	
Audio Input		4 x RCA (CH4 Two-way Audio)	
Video Output		1 CH Output / BNC	
Audio Output		1 CH Output / RCA	
XGA Output		800x600 、 1024x768 、 1280x1024	
Alarm Input		4CH Alarm In	
Alarm Output		Buzzer 、 2 x Relay Out (N.O 、 N.C)	
Display Mode		Full Screen, 4/9/13/16 CH Split Screen, Auto Switch	
Display Resolution		720 x 480	720 x 576
Recording Resolution	CIF	360 x 240	360 x 288
Recording Frame		Max. 480 FPS	Max. 400 FPS
Compression Algorithm		H.264	
Operating System		Embedded Linux	
Pentaplex		Record / Playback / Network / Mobile Phone / Back up	
Recording Mode		Manual, Schedule, Event	
Schedule Recording		Full Recording, Motion, Alarm, Manual Recording	
Status Indicator		Power, Network, HDD1, HDD2	
Event Mode		Alarm Trigger, Motion Trigger, Video Loss	
		Recording Duration: 1~60 sec.	
System Log		Up to 2000 recording list displayed	
Playback Mode		Normal Speed: x1	
		Fast Forward: x2 / x4 / x8 / x16 multiple speed	
		Slow Forward: 1/2 、 1/4 、 1/8 multiple speed	
		Fast Rewind: x2 / x4 / x8 / x16 multiple speed	
		Frame by Frame Playback: Forward	
		Search Function: Time / Event	
Network Protocol		TCP/IP / PPPoE / DHCP / SMTP / DDNS	
Inter-communication		Yes	
HDD Type		SATA 3.5"HDD x 2 (No HDD Included)	
PTZ Control		Communication Protocol (PELCO P, PELCO D, MIKAMI) (RS-485)	
Backup Device		USB 2.0 Flash Memory Stick	
Firmware Update		Host USB 、 LAN / WAN	
Multi-Language		English/ Traditional Chinese / Germany /Russian/ French / Spanish / Italian / Portuguese / Turkish/ Japanese / Korean/ Simple Chinese / Czech Republic / Poland	
Control Mode		Front Panel / Remote Control / USB Mouse / Internet	
Network Control		IE Browser / Multiwindow(CMS) Remote Control	
Network Function		Live Display / Playback / PTZ Control / System Setup	
IR Extension		YES (Optional)	
Power Supply		DC 12V / 4A(AC100V~240V 50/60HZ)	
Unit Dimension		430mm (W) x 314mm (D) x 53mm (H)	
Weight		3kg (HDD and Power Adapter Not Included)	
Operating Temperature		0℃ ~ 46℃	

2.Front Panel



	MENU	Under the live viewing mode, press MENU to enter the main menu. Under the menu mode, press MENU to go to the upper menu.
	Stop Manual Record	To stop the operation or go to the upper menu under the playback mode. Press the Manual Record button to start recording under the live mode.
	Pause Step Forward	To pause the playback under the playback mode. To playback frame by frame in each time under the pause mode during the playback.
	Play	Under the live viewing mode, press the Play button to enter the playback mode.
	Fast Rewind	Rewind speed: x2 / x4 / x8 /x16
	Fast Forward	Forward speed: x2 / x4 / x8 / x16
	Slow Forward	Slow forward speed: 1/2 、 1/4 、 1/8
	Up Down	To move up or down of the selection setting in the menu. Under the live mode of Single/Quad/9 display, use the button to control video display.
	Left Right	To move left or right of the selection setting in the menu. Change to Single/Quad/9/13/16 division display under the living mode.
	Enter	Press the Enter button to confirm the setup or go into sub-menu.
	Power Indicator LED	The LED will light on when power on.
	Network Indicator LED	The LED will light on when network connected.
	HDD 1 Indicator LED	The LED will light on when the HDD 1 is written.
	HDD 2 Indicator LED	The LED will light on when the HDD 2 is written.
0(+10)-9	Channel 1~16	Under the live viewing mode or playback mode, press channel 1~16 button to display the individual channel screen.
	9 / 16 CH Split	9 / 16 channel split screen display.
	Quad	Quad screen display. Select start / end time, when setting the MD area. Keyboard switch to number, English Capital or symbol.
	Auto Switching	Under the live viewing mode, press the button to start/stop the auto switching function.
	USB2.0 Slot	For USB 2.0 Flash Memory Stick to Backup and Firmware Update. (There are a front and a back USB that can be used one at a time.)

3.Rear Panel



1	USB Mouse Port	1.0 USB Mouse
2	VIDEO IN	1~16 CH Video Input (BNC)
3	VIDEO OUT	Video Output (BNC)
4	AUDIO OUT	Audio Output (RCA)
5	AUDIO IN	1~4 CH Audio Input (CH.4 is for external input)
6	ALARM	Includes 4 DI AND 2 DO (Default N.O.)
7	DC12V	Power Input
8	XGA	LCD Monitor Output
9	LAN	RJ45 Network Connection
10	RS-485	RS-485 Connection, For Speed Dome Use
11	HOOK	Cable Hook

● Alarm I/O Instruction

	Instruction
	Pin 1. CH 1 SENSOR INPUT
	Pin 2. CH 2 SENSOR INPUT
	Pin 3. CH 3 SENSOR INPUT
	Pin 4. CH 4 SENSOR INPUT
	Pin 5. Ground
	Pin 6. 1 ST RELAY : COM
	Pin 7. 1 ST RELAY : N.O (Default)
	Pin 8. 2 ND RELAY : COM
	Pin 9. 2 ND RELAY : N.O (Default)

4.DVR Installation

- Connect the camera video output to the DVR video input port with BNC connectors.
The camera install coaxial cable is suggested RG-59 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 **7.2.7 Network** for further network setting information of using static IP, PPPoE or DHCP.)
- Alarm Installation
Please refer to **3. Rear Panel** for external alarm I/O installation.
(Please refer to **7.2.4 Alarm in & 7.2.5 Alarm out.**)
- Speed Dome Installation

This product can be installed protocol (Pelco D, Pelco P, MIKAMI, LILIN, Samsung)

➤ **Power Installation**

Please use the provided power cable and adaptor to connect the DVR (AC100V~AC240V).

Please refer to **3. Rear Panel** for connecting position.

The DVR system will enter into live viewing mode when power is connected.

Please refer to **6. Display Mode** for more information.

5. System Operation

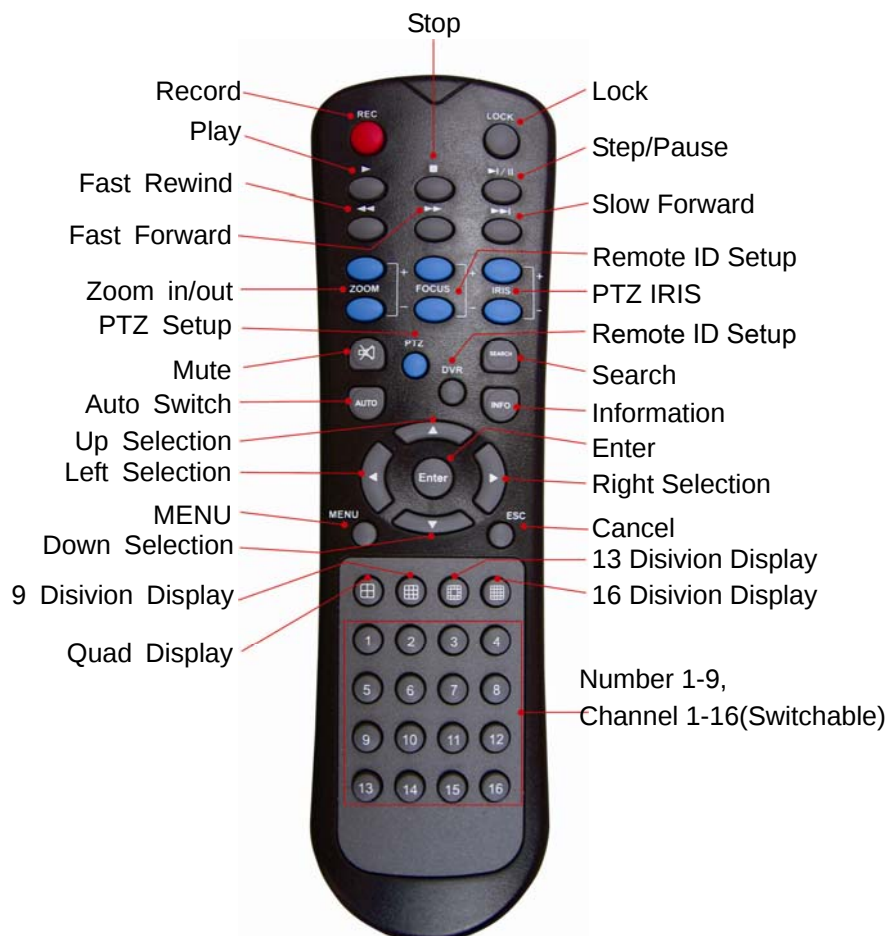
There are 3 kinds of DVR control method: front panel, remote control and USB mouse. Please refer to **2. Front panel**.

● **Mouse Operation**

- Right click the mouse button under the live viewing mode for enter into Quick Menu.
- Left click the mouse button under the main menu to go to menu selection.
- Left click the mouse button under the select menu to go to the sub-select menu.
- Right click the mouse button under menu selection to EXIT.
- Use the mouse or Virtual Keyboard to change the setting

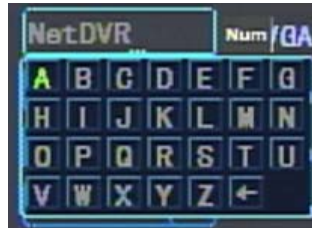
● **Remote control operation**

- Please refer to **2. Front panel** and the reference table of the button as below.



● Virtual Keyboard Operation

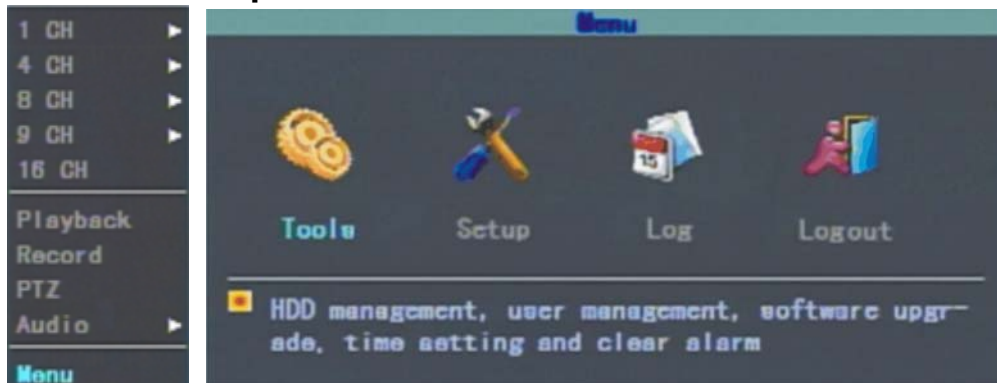
The text input of the virtual keyboard is as below:



※To key in data, press “Quad” button to switch to number, English Capital or symbol by using front panel or remote control.

Menu Operation	Front Panel & Remote Control Operation	Mouse Operation
Select character from virtual keyboard	[Up/Down/Left/Right]	[Move Cursor]
Key in the select character	[Enter]	[Left Click]
Exit the virtual keyboard	[MENU]	[Right Click]
Key Description of Virtual Keyboard		
Num	Capital letter shift	
123	Number	
abc	lowercase letter shift	
,	Symbol	

● Main Menu Operation



Setup Operation	Front Panel & Remote Control	USB Mouse
Select Item	[Up/Down/Left/Right]	[Move Cursor]
Enter Select Item	[Enter]	[Left Click]
Exit Main Menu	[MENU & ESC]	[Right Click]

6.Display Mode

There are 3 kinds of screen display mode: Live, Auto Switching and PTZ.

● Live Viewing Mode

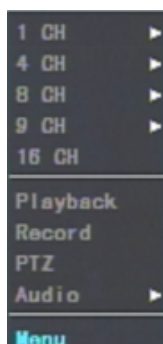
The DVR will go to the live viewing mode after boot up. There are 5 different status icons:

1. ● : Record
2. 🚶 : Motion Triggered
3. 🔔 : Alarm Triggered
4. 🕒 : Schedule Record
5. 🖱️ : Manual Record



Setup Operation	Front Panel & Remote Control	USB Mouse
CH. 1~16 SINGLE DISPLAY	[Channel 0(+10)~9 and 1~16]	Left click upon selected channel
4/9/13/16 channel Split Display	[4/9/13/16 Split]	Left click upon UI Menu
Quick Menu	[MENU]	[Right Click]
Playback Mode	[Play / Search]	Left click upon Recording data of UI Menu to operate
Start/Stop the Manual Record	[record] and select option in Manual Recording of UI Menu	Left click upon Manual Recording of UI Menu to select option
Start/Stop the Auto Switching	[Auto Switching]	Set Up in UI Menu
Start/Stop the PTZ Auto Tracking	Set Up in UI Menu	Set Up in UI Menu
Start/Stop Mute	[Mute]	Set Up in UI Menu

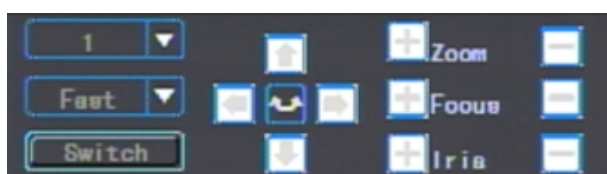
● Quick Menu



Setup Operation	Front Panel & Remote Control	USB Mouse
Select Item	[up / down 、 right / left]	[Moving Cursor]
Enter the Select Item	[enter]	[Left Click]
Exit	[MENU / ESC]	[Right Click]

● PTZ

Please set the speed dome properly before control PTZ. Please refer to **7.2.8 PTZ** for setup.



Setup Operation	Front Panel & Remote Control	USB Mouse
Select Item	[up / down 、 right / left]	[Moving Cursor]
Enter Select Item	[enter]	[Left Click]
Select PTZ Channel	[up / down]	[Left Click]
Zoom +,-	[ZOOM] [+] [-]	
Focus, +-	[Focus] [+] [-]	
Iris, +-	[IRIS] [+] [-]	
Adjust Movement Speed	[Fast] 、 [Normal] 、 [Slow]	
PTZ Upward	[Up Arrow]	
PTZ Downward	[Down Arrow]	
PTZ Left	[Left Arrow]	
PTZ Right	[Right Arrow]	
Start/Stop Auto Tracking	[Auto Tracking Icon] [Stop Icon]	
Exit	[MENU]	[Right Click]

● Auto Switching

Auto switch starts from orderly CH1 to CH16, or split display orderly (exclude 13 and 16 split display).

● Manual Recording

Enable manual: here shows selected camera's status, setup and signal :

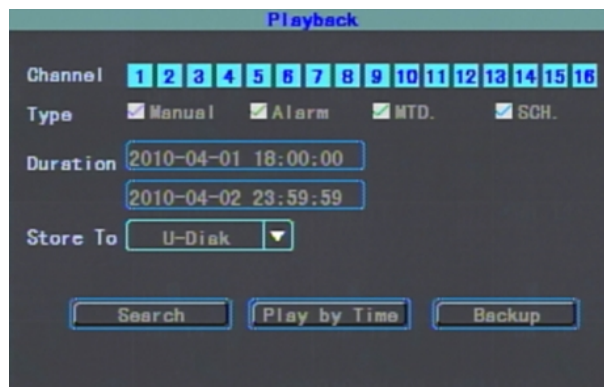
Setup Operation	Front Panel & Remote Control	USB Mouse
Select Item	[right / left]	[Moving Cursor]
Enter Select Item	[up / down] and [enter]	[Left Click]
Exit	[MENU] or [ESC]	[Right Click]

Signal Instruction

1.  : Not in recording.
2.  : In recording.
3.  : Not in recording yet in internet surveillance.
4.  : In recording and internet surveillance simultaneously.



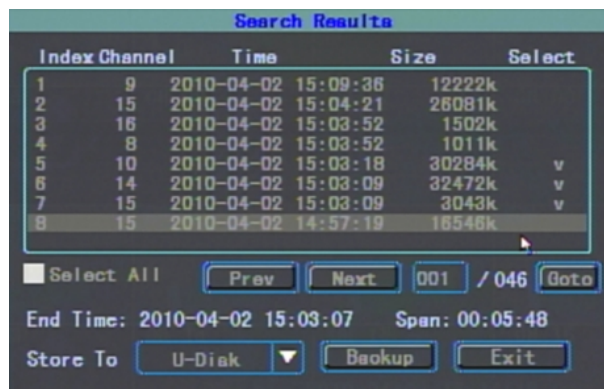
● Recording Data option : playback and back-up



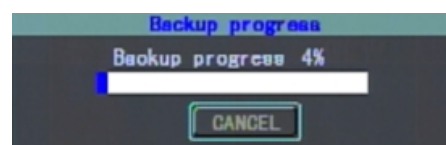
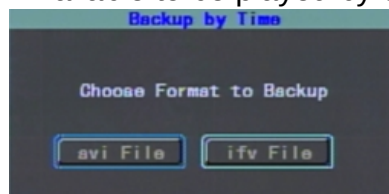
- a. Select channel (Selected item would be shown as light blue).
- b. Select recording mode: manual, alarm, motion and schedule.
- c. Enter Start and End time to search or playback.
- d. Select "search" and recording list be shown.
- e. Select from the list with mouse or remote controller to playback.



- f. Mouse right click to select (Multi-selection be available) from list for backup, for remote controller, with "INFO" to select or remove select (press Enter will playback the selected item directly), "Select all" to back-up all.
- g. Backup device : Select the backup path to device.



- h. Select backup file type: ifv or avi.
 Ifv: Needs to be played by Player.
 Avi: Available to be played by other media player.



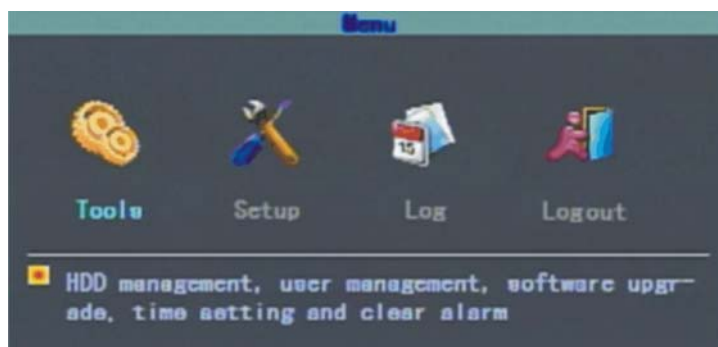
● Playback operation

- a. After set up a~c, press Playback to start the video like below picture; or continue d~f to select file to backup or playback.
 b. Instruction of Playback:



Setup Operation	Front Panel & Remote Control	USB Mouse
Fast Rewind	[Fast Rewind]	[Left Click]
Fast Forward	[Fast Forward]	[Left Click]
Step Forward	[Step Forward]	[Left Click]
Step/Pause	[Step/Pause]	[Left Click] /
Play 1x	[Play]	[Left Click]
Stop	[Stop]	[Left Click]
Mute	ON/OFF	[Left Click] /
1~16 Single Channel Display	[CH. 1~16]	[Left Click] to select channel : Another [Left Click] back

7.Main Menu



Setup Operation	Front Panel & Remote Control	USB Mouse
Select Item	[up / down / right / left]	[Moving Cursor]
Enter Select Item	[enter]	[Left Click]
Exit Main Menu	[MENU / ESC]	[Right Click]

7.1 Tools



7.1.1 HDD

Formatted HDD and display HDD's information



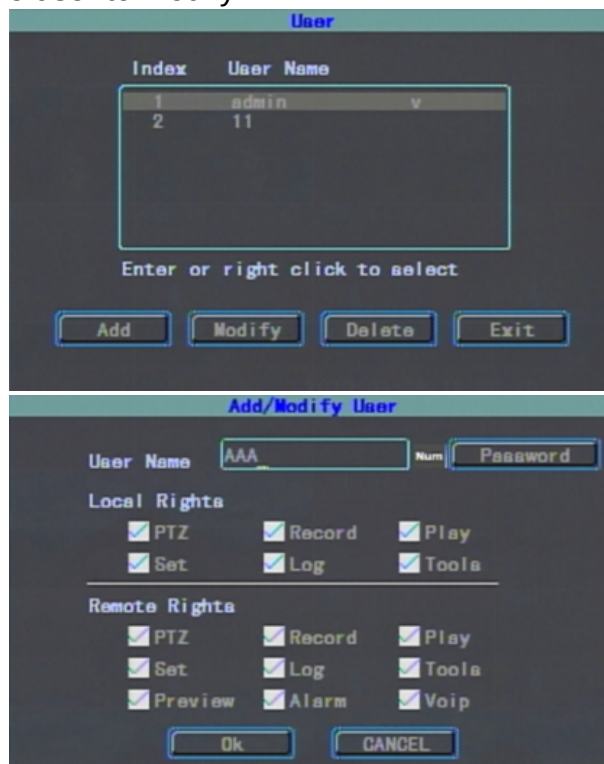
7.1.2 User



Add or Edit User's password and permissions: includes monitor, play-back, management, remote access, recording and ETC... (Login with default user name: admin and no password needed as highest authority to do all settings. Admin could change the password and create other user accounts.)

1. Edit user name and password

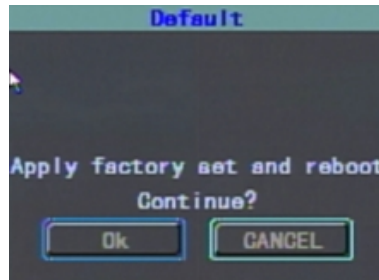
Select the user to Modify



※ Default account (user name):admin ; No password needed
Please contact the manufacturer or distributor for password if it is forgotten. The password is valid for only 1 hour to the relative DVR.

7.1.3 Default

Setup every parameter back to default value.



7.1.4 Clear

Clear Alarm is for stopping the current alert action. As MD, alarm input or video loss to trigger the alarm output, Clear Alarm can stop the link actions to relative setting. (EX: buzzer, alarm output, recording or PTZ)

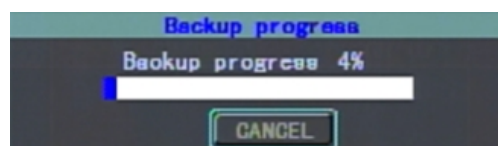


7.1.5 Upgrade

Pop-up window as below when "upgrade" selected:



Setup path for firmware to process. (Notice: STOP recording while up-grade)

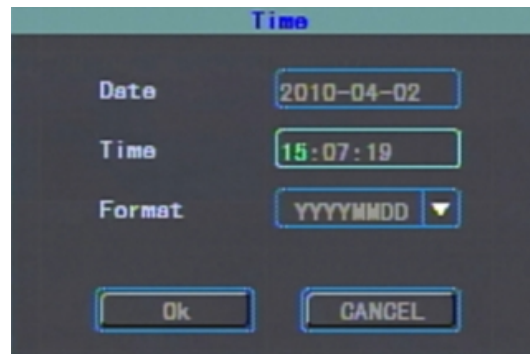


※Do not turn off the power during updating process, to avoid faulty updating.

7.1.6 Time

Setup system date, time and display mode, as fig. below:

1. Setup system date.
2. Setup system time.
3. Select display format.



7.1.7 Info

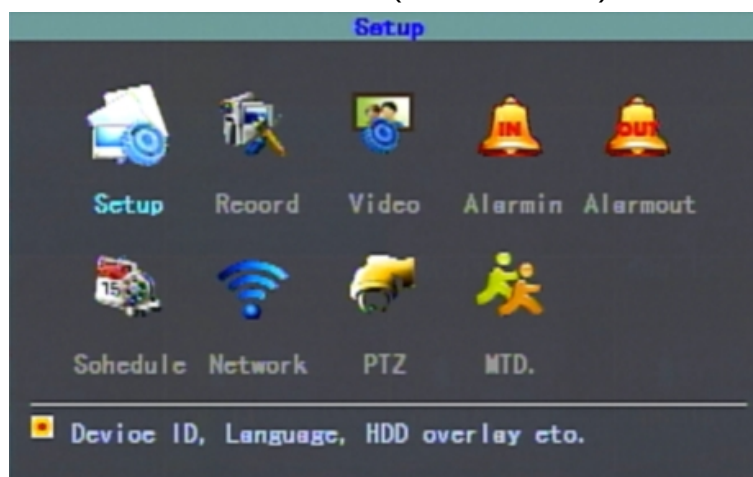
Display system information and firmware version.

1. Device Name : Can be set on System tool ->System Setting.
2. Model : H.264 16CH DVR SP1.
3. Version : Shows the current DVR firmware version and date.



7.2 Setup

Main Menu of Setup includes: setup, record, video, Alarmin, Alarmout, Schedule, Network, PTZ and MTD (Motion Detect).



7.2.1 Setup

The screenshot shows a 'Setup' menu with the following options and values:

Setting	Value
Device ID	255
Device Name	NetDVR
Overwrite	Yes
Lock Time	Never
Auto Switch	5
Switch CH	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
Video reserve	100 days
Standard	NTSC
VGA	1024*768
Transparency	None
Language	English
Show Status	☒
Key sound	☒

Buttons: Ok, Cancel

- a. Setup DVR ID (000-255): Can be operated with different ID. The setting of remote control should be changed to correspond to different ID. Otherwise the remote control cannot function to the DVR. For example: The ID of DVR and remote control is set to 255. If the DVR ID's changed to 123, then the remote control should be set up as below procedures:
 - (1) Press "DVR" button on remote control.
 - (2) Key in the number "1", "2", "3" in sequence then press ENTER.
- b. Setup DVR Name.
- c. Setup if overwrite or not.
- d. Lock Time : Auto log-out after staying idle for certain time. (Action will be like LOCK)
- e. Auto Switch.
- f. VGA: Supports resolution: 800x600, 1024x768 and 1280x1024.
- g. Transparency for menu display.
- h. Language: supports multi-language.
- i. Show Status: on/off Show Status: (alarm, manual, motion, schedule and etc...)
- j. Channel Switch: Select single channel to do auto switch.
- k. Video conserve term: unit-"day".
- l. Keypad tone: Front Panel keypad and remote controller tone On or OFF.

7.2.2 Record



- Channel: Separately setup parameters of each camera
- Stream: Dual-mode stream for Option:
Main stream is for recording terminal and Sub-stream as the alternative for internet surveillance.
- Stream: Audio recording; please disable when no audio to save system
- CBR/VBR: CBR (Constant bitrate) and VBR (Variable bitrate).
- Max Bitrate: setup the limitation of image transmission.
- Frame Rate: setup recording frame.
- Quality: Setup recording Quality (6 as the best).

★ ***VBR files vary the amount of output data per time segment. It allows a higher bitrate (and therefore more storage space) to be allocated to the more complex segments of media files while less space is allocated to less complex segments. CBR file fixed the amount of output data per time segment.***

Notice: Each camera could be setup individually and check all camera setup be highly necessary; and "copy" setup to rest camera intrusted as fig. below:



7.2.3 Video

Setup parameter

- Select camera
- Setup camera name
- Setup the camera name if displayed or not and its position
- Setup the time if displayed or not and its position
- Setup the brightness, contrast, hue and saturation

f. Setup blind area and recording



※ The DVR can be set up for different channel individually, user should be careful when setting up individually. (To avoid only one channel be set up).

7.2.4 Alarmin

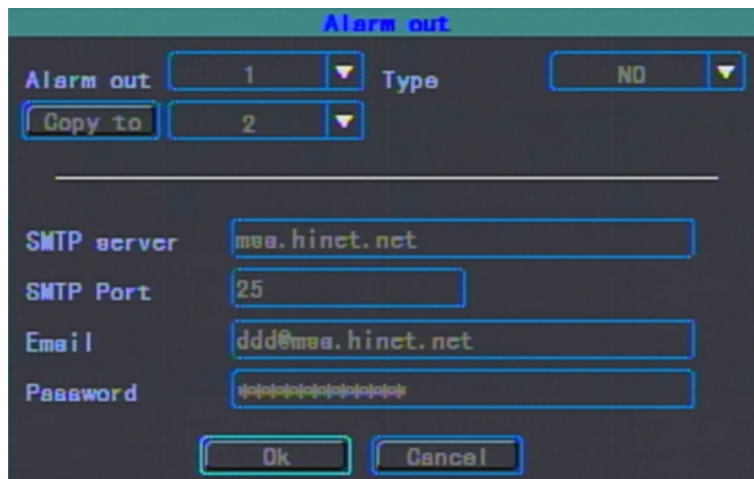
There are four alarm in to setup:

- a. Input: Select camera
- b. Detect: Select if enable the alarm
- c. Select the type of alarm input
- d. Duration: setup the time of alarm output
- e. And relative setup for alarm output as follows:
 1. Duration : setup the time of alarm output
 2. PTZ: setup the movement of PTZ (SPEED DOME) when triggered.
 3. Recording CH: Setup certain cameras to recording when triggered.
 4. Alarmout: enable alarmout when triggered.



7.2.5 Alarmout

There are two alarmout to setup as NC or NO: Also setup Email sending address in this window.



7.2.6 Schedule

Except manual recording, all must be setup in Schedule, or the relative setup would be faild, and its setup as follows:

- Channel : Setup camera
- Week : select the date for each week and all for everyday
- Time # : select recording interval
- Select recording type; Schedule, Motion detect and Alarm which goes after recording interval selecting
- Time axis means: Schedule (in Red), Motion detect (in Green)and Alarm(in Yellow)



※ The DVR can be set up for different channel individually, user should be careful when setting up individually. (To avoid only one channel be set up).

7.2.7 Network



Set the connection method:

- a. LAN : Static IP or DHCP
 1. DHCP: IP auto-dispatched when selected.
 2. Static IP: IP Address, default gateway, net mask, DNS be required when selected.
 3. Port 1: Value of Control port. Default:8670
Port 2: Mobile port and HTTP port. Mobile port default: 101, HTTP port default: 80.

A screenshot of the "LAN" configuration screen. It contains several input fields and a checkbox. The fields are: "MAC" (00:11:22:33:44:89), "DHCP" (checkbox), "IP" (192.168.099.245), "Net Mask" (255.255.255.000), "Gateway" (192.168.099.211), "DNS" (000.000.000.000), "Port 1" (8672), "Http Port" (80), and "Port 2" (101). At the bottom are "Ok" and "Cancel" buttons.

※ The mobile software (TMEye) is supported starting from the version V3.0.14. (port 2) For the mobile port setting, please follow DVR network port 2. Try to download the latest mobile software. If need to use the old version mobile software, please plus "1" on the mobile setting. (Ex: If the DVR port 2 setting is: 101, then the old version mobile software should set to 102.)

- b. PPPoE: for ADSL user to setup
 1. Select: enable.
 2. Enter User Name and Password offered from ISP.
 3. This page will show the IP address when linked successfully.

PPPoE

Enable ☒

User Name

Password

IP 000.000.000.000

Net Mask 255.255.255.255

Gateway 000.000.000.000

DNS 000.000.000.000

Ok CANCEL

c. DDNS Setup: Required to register Dynamic Domain Name Service at first

1. Select enable and DDNS provider.
2. Enter User Name and Password.
3. Enter registered DDNS provider's Domain Name.

DDNS

Enable ☒ Provider 3322 ▼

User Name

Password

Domain

Ok CANCEL

7.2.8 PTZ

- a. PTZ: PTZ setup needs to match Speed Dome's parameter: Baud Rate, Protocol and ID.
- b. Supports Default spot, cruiser and tracking setup.

PTZ

Channel 1 ▼

Baudrate 2400 ▼ Protocol Pelco-D ▼

Decoder 1 Preset Set

Cruise Set Track Set

Copy to 2 ▼ Ok Cancel

7.2.9 MTD (Motion Detect)

Supports three mods for motion detect:

- A. Motion detect: Enable / disable motion detect and related setup
 - a. Select MTD. (Please set the detect type on the Top-Right of the page)
 - b. Select Camera. (It can be set up for different channel individually, user should be careful when setting up individually. To avoid only one channel be set up.)
 - c. Setup sensitivity: Lowest, low, Middle, High, Hightest and Disable.
 - d. Setup detect area: offer multi area as 22*15 units (transparency means not selected; and Red Area selected). It can be set up by mouse. Click the block or click and drag to the area you would like to detect. Click or click and drag again to remove it. The instruction of using front panel button or remote control to select the area as below:
 1. Move UP DOWN LEFT RIGHT to the position of selected area and press Quad to select.
 2. It could continue to move UP DOWN LEFT RIGHT to enlarge the area and press Quad to select.
 3. If want to select multi areas, please repeat the step 2.
 4. Press "MENU" to remove the selected motion detection area.
 - e. Relative setup as follows, when triggered:
 1. Duration: setup the time of alarm output. Unit: Second.
 2. Rec. CH: setup recording channel when triggered.
 3. Buzzer: Enable / disable buzzer.
 4. Alarmout: Enable / disable alarm-out when triggered.
 5. Send Mail: Enable / disable SMTP when triggered (refer to **7.2.6 Schedule** for setup).

The screenshot shows the MTD (Motion Detect) configuration screen. It has a dark background with white text and buttons. The title 'MTD.' is at the top. Below it, there are several rows of settings: 'Channel' with a dropdown set to '1'; 'Type' with a dropdown set to 'MTD.'; 'Rec. CH' with a row of 16 buttons, the first of which is highlighted; 'Alarmout' with a row of 2 buttons, the first of which is highlighted; 'Sensi.' with a dropdown set to 'Moderate'; 'Area' with a button labeled 'Set'; 'Duration' with a dropdown set to '5 Sec'; and 'Send Mail' with a checked checkbox. At the bottom, there are four buttons: 'Copy to', '2', 'Ok', and 'CANCEL'.

※ The DVR can be set up for different channel individually, user should be careful when setting up individually. (To avoid only one channel be set up.)

- B. Vloss: Enable / disable Video loss detect and related setup.
 - a. Select type to Vloss. (Select Video Loss in the detect mode)
 - b. Select Camera. (It can be set up for different channel individually, user should be careful when setting up individually. To avoid only

- one channel be set up.)
- c. Relative setup as follows, when triggered:
1. Duration: setup the time of alarm output. Unit: Second.
 2. Buzzer: Enable / disable buzzer.
 3. Alarmout : Enable / disable alarm-out when triggered.
 4. Send Mail : Enable / disable SMTP when triggered (refer to **7.2.6 Schedule** for setup)

The screenshot shows the 'MTD.' setup window. The 'Channel' is set to '1' and the 'Type' is 'Vloss'. The 'Alarmout' is set to '1' (highlighted in blue) and '2'. The 'Buzzer' checkbox is checked. The 'Duration' is set to '5 Sec'. The 'Send Mail' checkbox is unchecked. At the bottom, there are buttons for 'Copy to', '2' (highlighted in blue), 'Ok', and 'CANCEL'.

- C. Blind: Enable / disable Blind detect and related setup
- a. Select type to Blind. (Select Blind in the detect mode)
 - b. Select Camera. (It can be set up for different channel individually, user should be careful when setting up individually. To avoid only one channel be set up.)
- c. Relative setup as follows, when triggered:
1. Duration: setup the time of alarm output. Unit: Second.
 2. Buzzer: Enable / disable buzzer.
 3. Alarmout: Enable / disable alarm-out when triggered.
 4. Send Mail: Enable / disable SMTP when triggered (refer to **7.2.6 Schedule** for setup).

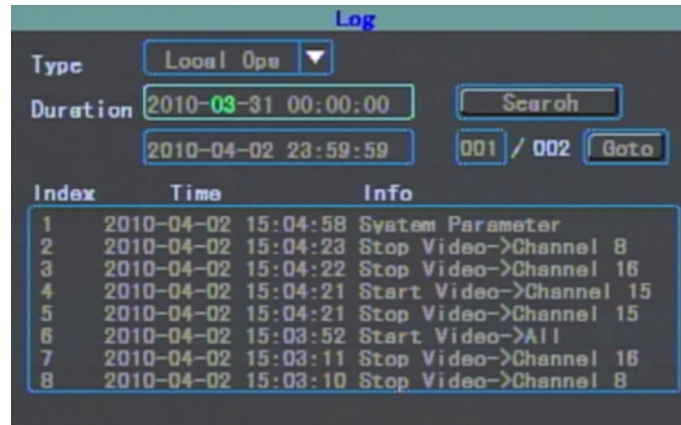
The screenshot shows the 'MTD.' setup window. The 'Channel' is set to '1' and the 'Type' is 'Blind'. The 'Alarmout' is set to '1' (highlighted in blue) and '2'. The 'Buzzer' checkbox is checked. The 'Duration' is set to '5 Sec'. The 'Send Mail' checkbox is checked. At the bottom, there are buttons for 'Copy to', '2' (highlighted in blue), 'Ok', and 'CANCEL'.

7.3 Log

Log is record of every setup and modification, up to 4000 lists.

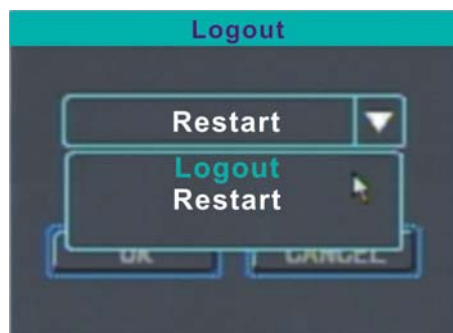
Operation :

- a. Select event type: alarm, local event, remote event, video abnormal and all.
- b. Setup time segment and then “search “.



7.4 Logout

Options for Logout and Restart.



8. Player

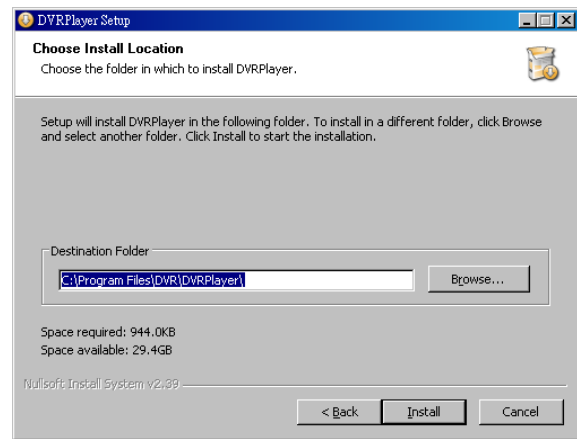
Recording backup file formatted is .ifv, and need to be played by Player, which will be:

A.In the CD attached, B.With the backup file to USB device, C. Directly download via IE from DVR.

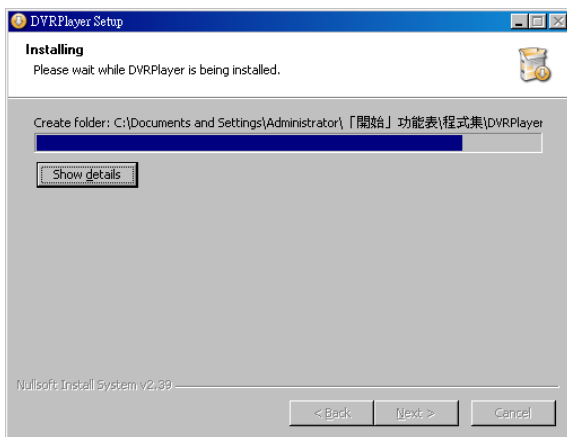
To install Player after un-zip the file, its steps as follows:



Step 1: Click "NEXT"



Step 2: Select the Install Location and then "Install".



Step3: Installing.



Step 4: Click "Finish" to complete install.

Shows the icon as right as the PLAYER  after finish install

Executive the Player or backup file directly, it would be shown as follows:

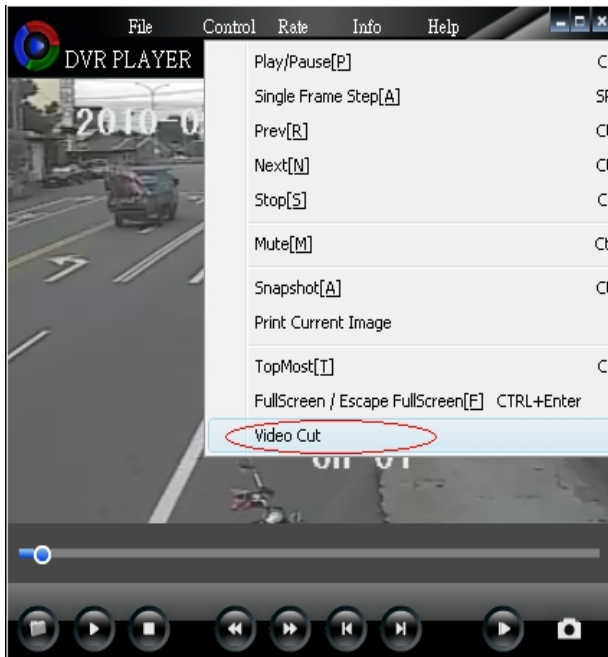


Functional instruction is as follows:

- a. : Open file.
- b. : play / pause file.
- c. : stop file.
- d. : slow play at 1/2, 1/4 and 1/8 speed.
- e. : Quick play at X2, X4 and X8 speed.
- f. : backward play to 10% of file time.
- g. : foreward play to 10% of file time.
- h. : play frame by frame.
- i. : Directly snap shot images, as saving path will be required.

2. Video cut instruction:

- Select "Control" on the tool bar and then select "Video Cut" as Picture 1.
- Move the mouse to the time zone which requested as start point of time and right click to select "Add cut point" as picture 2. Then add another "Add cut point" on the time zone which requested as end point of time. Therefore, the video between those two "Add cut points" will be the one requested. To save the file, please right click and select "Backup shear Video" as picture 3. The saving path will be as picture 4.



Picture 1



Picture 2



Picture 3



Picture 4

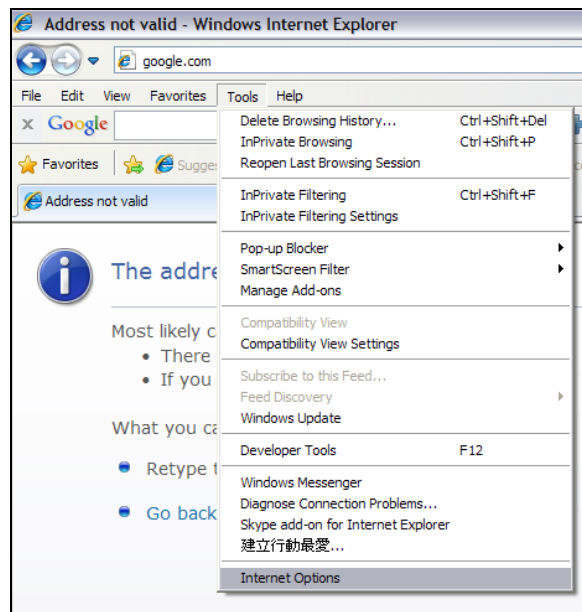
9. Internet Explorer (IE) operational instruction

9.1 IE Security setting:

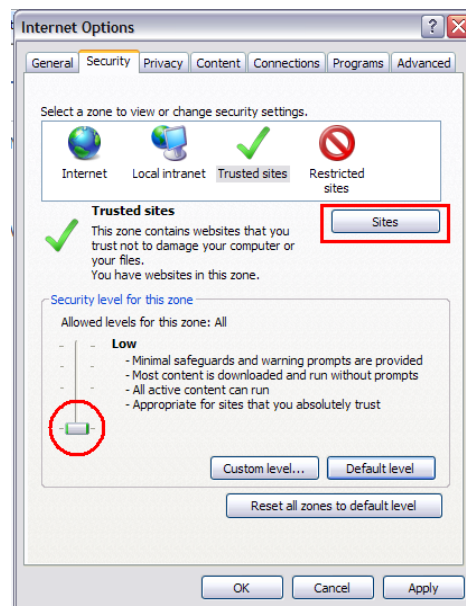
There two method to solve when internet interface be loaded improperly:

Method 1:

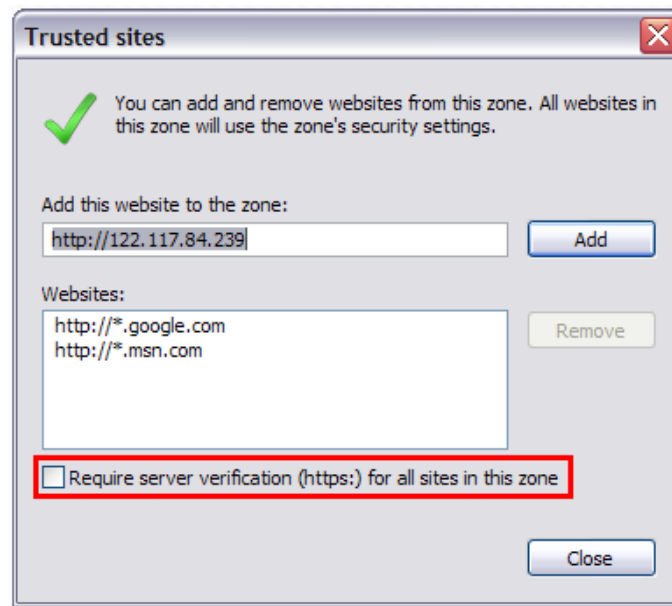
1. To IE 6.0 and 7.0, for example, select “ Tools” and then “ Internet Option “ as follows:



2. Select“Security”above and then ” reliable Website” , change to “ low security “ after set “ default” and then apply , and select “ site “ after all :

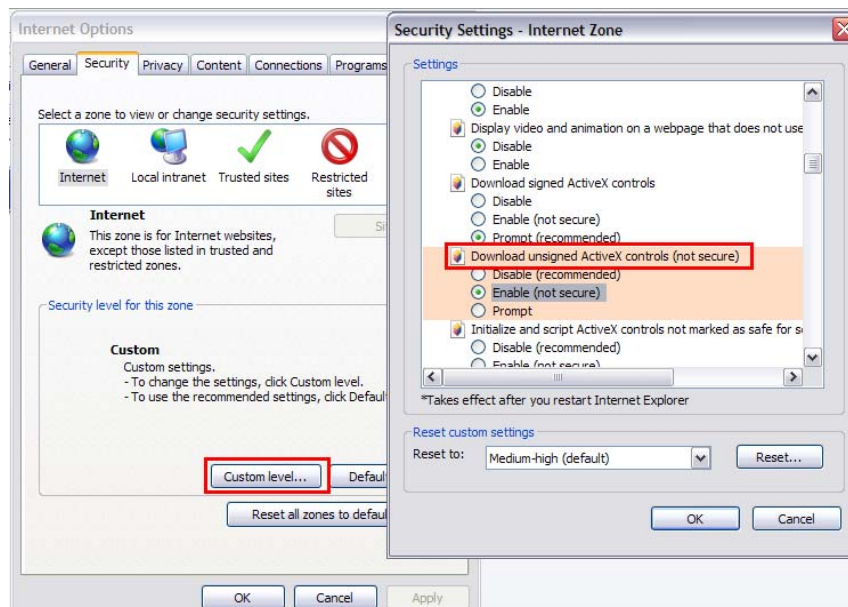


3. Type <http://122.117.84.239> in the pop-up next, as the fig below, and remove the hook from the block marked · and click “yes” that everything be all set; The same way for WINDOW 7.



Method 2 :

Select “Tools” and then “Internet Option “and then “Custom level” of security



Change “download un-registered ActiveX “option to enable.

9.2 IE Login

Enter DVR’s IP address and log-in window will pop-up as fig. below, and then select Language and enter user name and password, that access will be after interface be loaded successfully.

Language English

User Name

Password

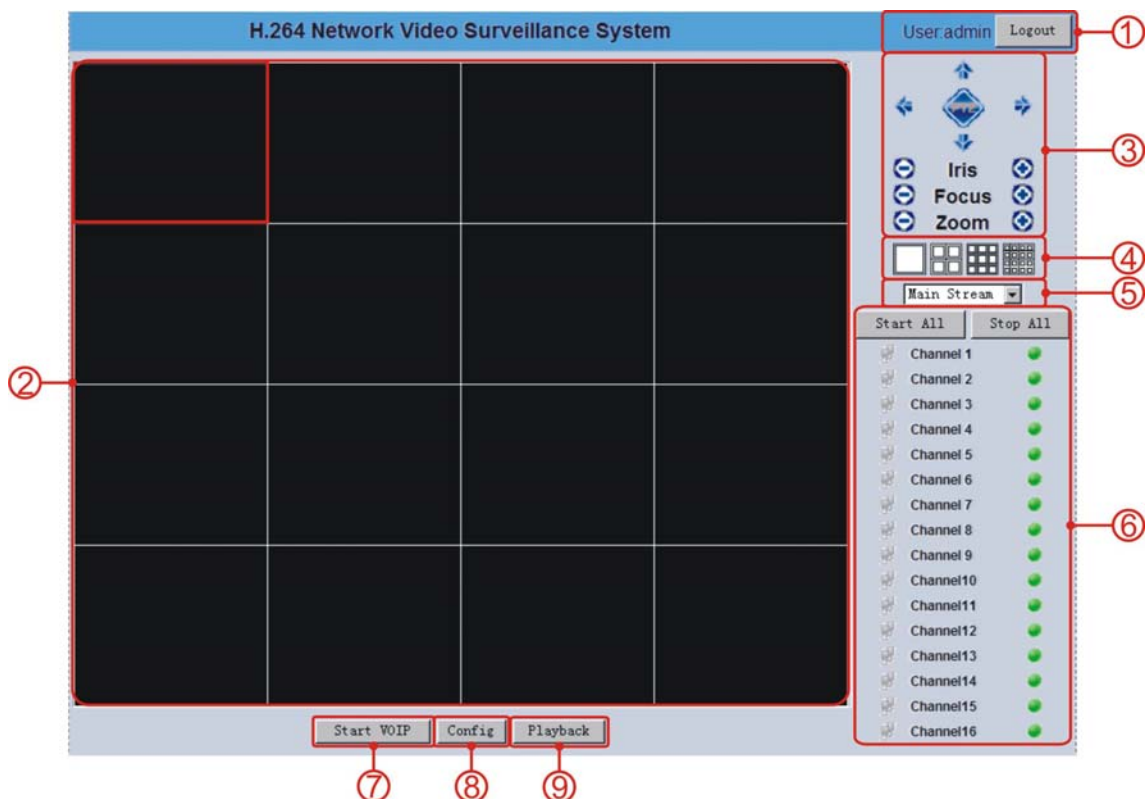
Network LAN

If plugin can't be installed automatically, pls download [manual installation package](#).

Download installation package of DVR player : [DVRPlayerSetup.rar](#)

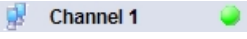
9.2.1 Main surveillance interface

It's shown as below: Monitor, PTZ, Split display (single, quad, 9 , 16 split) , Stream (main stream,/ sub-stream) , Camera switch on/ off, Start VOIP, config, playback and log out and etc..



Key-icon Instruction:

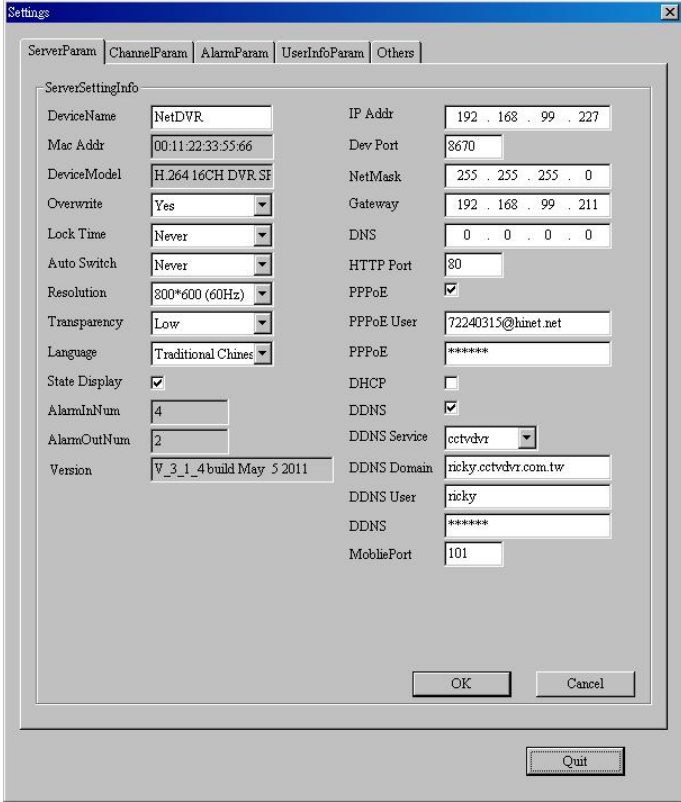
1. logout
2. Split monitor : display live images

3. PTZ option:
 - a.  movement control.
 - b. Iris: Adjust PTZ iris.
 - c. Focus: Adjust PTZ focus.
 - d. Zoom in / out for PTZ.
4. Split monitor: option for single, quad, 9 and 16 split
5. Stream: refer to **7.2.2 Record**, sub-stream is for weak internet condition
6. Camera condition: pick up camera to on / off ,  means Camera on ,  means Camera off; Red marked means selected channel, and switch on/off by double click, and all camera position be arrange-able.
7. Start VOIP: Enable/ Disable audio communication.
8. Config: Setup DVR relative parameter.
9. Playback: Playback/ download recording data from time segment, motion detection, alarm and manual.

9.2.2 Remote Setup

Setup / modify parameter in “ Config “:

- a. Sever Parameter: Setup / modify DVR Name, Over-write, lock time, Auto-switch, VGA, transparency, State Display, IP Address, DDNS and etc...



The screenshot shows the 'Settings' window with the 'ServerParam' tab selected. The 'ServerSettingInfo' section contains the following parameters:

Parameter	Value
DeviceName	NetDVR
Mac Addr	00:11:22:33:55:66
DeviceModel	H.264 16CH DVR SF
Overwrite	Yes
Lock Time	Never
Auto Switch	Never
Resolution	800*600 (60Hz)
Transparency	Low
Language	Traditional Chinese
State Display	☒
AlarmInNum	4
AlarmOutNum	2
Version	V_3_1_4 build May 5 2011
IP Addr	192 . 168 . 99 . 227
Dev Port	8670
NetMask	255 . 255 . 255 . 0
Gateway	192 . 168 . 99 . 211
DNS	0 . 0 . 0 . 0
HTTP Port	80
PPPoE	☒
PPPoE User	72240315@hinet.net
PPPoE	*****
DHCP	☐
DDNS	☒
DDNS Service	cctvdvr
DDNS Domain	nicky.cctvdvr.com.tw
DDNS User	nicky
DDNS	*****
MobilePort	101

Buttons: OK, Cancel, Quit

- b. Channel Parameter: Setup / modify Camera Name, Display Mode, Time mode, recording frame, Quality · Bit-type and that of Sub-stream, PTZ and etc...

Settings

ServerParam ChannelParam AlarmParam UserInfoParam Others

Channel Param Info

Channel: 1 ChnName: CH 01

Image Param

☒ Show Chn Name ☒ Show Time

Record Param

Stream Type: Video Bit Type: VBR Bit Rate: 512Kbps

Quality: Best FrameRate: Full

Schedule Set

SubStream

Stream Type: Video Bit Type: VBR Bit Rate: 256Kbps

Quality: Best FrameRate: 5 Resolution: 352*240

PTZ Param

Baudrate: 2400 Data Bit: 8 Stop Bit: 1

Check: No Control: No

Protocol: Pelco-d Decoder[1-1024]: 1

OK Cancel

Quit

- c. Alarm Parameter: Setup / Modify Alarm input/ output.

Settings

ServerParam ChannelParam AlarmParam UserInfoParam Others

Alarm Param Info

Alarm input

AlarmIn ID: 1 AlarmType: Low

AlarmInput: ☒ Set

Video Lost: Set

Blind Alarm: Set

PTZLinkage

LinkageID: 1

☐ Enable Preset PreSetPoint: 1

☐ Enable Cruise CruiseNum: 1

☐ Enable Track

Alarm output

AlarmOut ID: 1 AlarmType: Normal Open

AlarmNotice

UserName: Password: *****

SMTPServer: smtp.gmail.com SMTP Port: 25

OK Cancel

Quit

d. User Info Parameter: Setup / modify user permission.

Settings

ServerParam ChannelParam AlarmParam **UserInfoParam** Others

UserInfo

User ID: 2 Del User

UserName: Password: Confirm:

Remote Right

Ptz Ctrl ☐ Record ☐ PlayBack ☐

SetParam ☐ Log ☐ Tool ☐

Preview ☐ Alarm ☐ VOIP ☐

Local Right

Ptz Ctrl ☐ Record ☐ PlayBack ☐

SetParam ☐ Log ☐ Tool ☐

OK Cancel

Quit

e. Other : Manual recording, System time, clear alarm, event, Log list, reboot, update, restore, client record and snapshot file saving directory.

Settings

ServerParam ChannelParam AlarmParam **UserInfoParam** Others

Other Config

Manual Recorder

☒ 1 ☒ 2 ☒ 3 ☒ 4 ☒ 5 ☒ 6 ☒ 7 ☒ 8

☒ 9 ☒ 10 ☒ 11 ☒ 12 ☒ 13 ☒ 14 ☒ 15 ☒ 16

☒ AllStart ☐ AllStop

Set

SystemTime

2010-04-14 18:55:12

Refresh Set

HddInformation

Index	Capacity(GB)	Free(GB)
2	304GB	21GB

ClearAlarm LogQuery

ReBoot Update

Restore

Client Record and Snapshot File Saving Directory

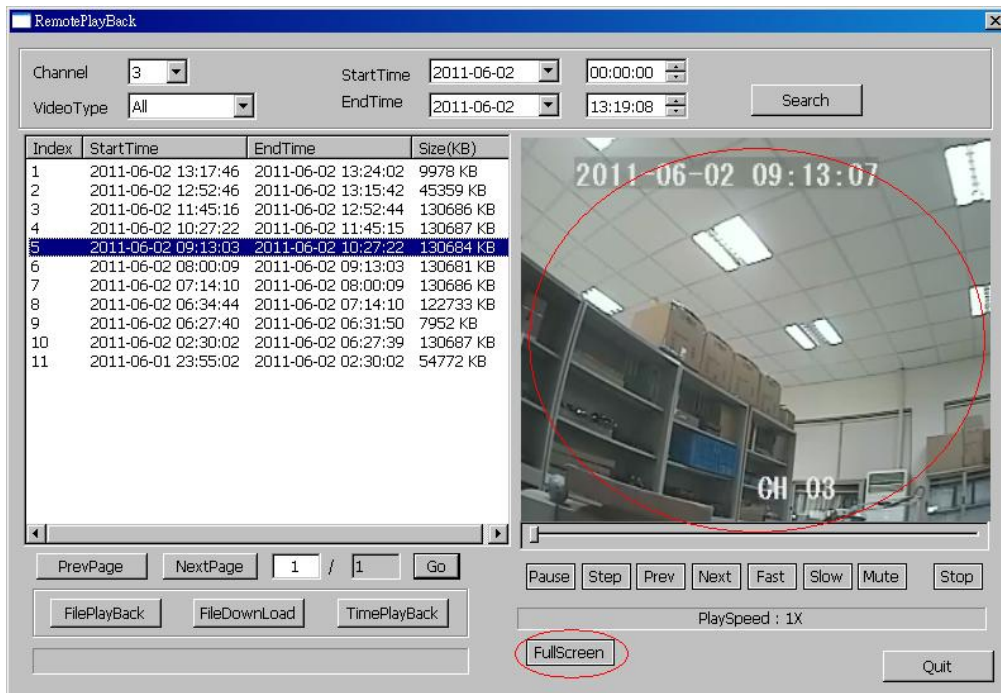
D:\NETDVR ... Set

Quit

9.2.3 Remote Playback

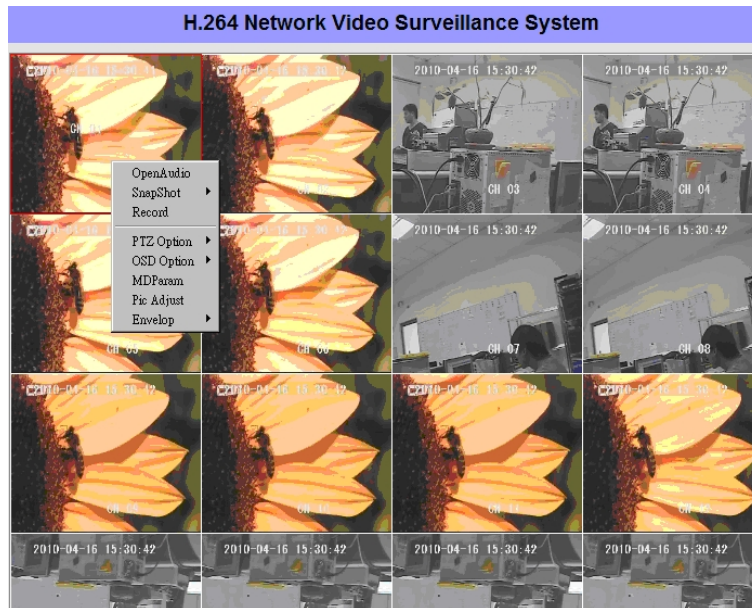
Playback / download recording data from time segment, motion detection, alarm, manual and operation:

- a. Select camera.
- b. Setup the time segment and then "Search" (or click "Time Playback" to playback directly).
- c. Selected list could be played by double click or "file playback".
- d. And download the file to local terminal by "file download".
- e. Refer to **8 . Player** for operation.
- f. Can also click the position as below picture for full screen playback or click it again to turn back to normal.



9.2.4 Remote surveillance function

Right click upon certain channel in main display and the quick manu would be shown as below:



- a. OpenAudio: CH. 1-3 could be recording with audio synchronously (CH. 4 is for audio inter-communication), click directly to enable remote monitor; and disable one channel's audio is needed before enable another channel.
- b. Snapshot: live snapshot to .bmp or JPG file.
- c. Record: remotely recording selected channel.
- d. PTZ option: setup PTZ's default spot, cruiser, tracking and etc....
- e. OSD option: setup OSD of the camera name and time display.
- f. MD param: setup motion detect area (available for mouse select directly).
- g. PIC adjust: setup selected channel's brightness, contrast, hue, and saturation.
- h. Envelop: setup area and blind function.

10. Instructions of Software Installation on Mobile Phones

Mobile device application software can be remotely connected DVR, monitor real-time images display. Mobile device must install the application software beforehand. Supported operating systems are Symbian, Windows Mobile, APPLE iPhone, Google Android and Blackberry.

- ※ The mobile software (TMEye) can be supported starting from the version V3.0.14. (port 2) For the mobile port setting, please follow DVR network port 2. Try to download the latest mobile software. If needed to use the old version mobile software, please plus "1" for the mobile setting. (Ex: If the DVR port 2 setting is: 101, then the old version mobile software should set to 102.)
- ※ Please see the Mobile viewer instruction for setting up the cell phone software.

11. HDD Support List

All in the list below has been tested and be recommended for functional ensuring.

Brand	Model Number	Capacity
SEAGATE	ST3250310CS	250G
	ST3320410SV	320G
	ST3500418AS	500G
	ST3500312CS	500G
	ST3750528AS	750G
	ST31000424CS	1T
	ST31500541AS	1.5T
	ST32000542AS	2T
HITACHI	HCT721025SLA380	250G
	HCT721032SLA380	320G
	HCP725050GLA380	500G
	HCT721010SLA360	1T
	HDHCT721010LAS360	1T
WD	WD3200AVVS	320G
	WD3200AAKS	320G
	WD5000AVVS	500G
	WD5000AAKX	500G
	WD10EURS	1T
	WD10EVDS	1T
	WD10EVVS	1T
	WD15EARS	1.5T
	WD20EARS	2T
	WD2001FASS	2T

12. USB Flash Memory Stick Support List

All in the list below has been tested and be recommended for functional ensuring.

Brand	Model Number	Capacity
Transcend	Jetflash V20	4G
	Jetflash V20	8G
	Jetflash V30	16G
	Jetflash V20	32G
Adata	PD1	1G
	PD1	4G
	PD1	8G
	C801	16G
	C801	32G
SONY	Microvault	8G
	Microvault	16G
SanDisk	Cruzer Micro	4G
	Cruzer Micro	8G
	Cruzer Micro	16G
Kingston	DTIG2	4G
	DTIG2	8G
	DTIG2	16G