DVR User Manual

For H.264 4/8/16-channel digital video recorder All rights reserved

CAUTION

• Please read this user manual carefully to ensure that you can use the device correctly and safely.

• There may be several technically incorrect places or printing errors in this manual. The updates will be added into the new version of this manual. The contents of this manual are subject to change without notice.

• This device should be operated only from the type of power source indicated on the marking label. The voltage of the power must be verified before using. If the device doesn't work for a long time, pull out the plug from the socket.

• Do not install this device near any heat sources such as radiators, heat registers, stoves or other device that produce heat.

• Do not install this device near water. Clean only with a dry cloth.

• Place the device in a well-ventilated area.

• Do not power off the DVR at normal recording condition! The correct operation to shut off DVR is to stop recording firstly, and then to select "shut-down" button at the right of the menu bar to exit, and finally to cut off the power.

• This machine is indoor using equipment. Do not expose the machine in rain or moist environment. In case any solid or liquid get into the machine's case, please cut off the power supply immediately, and ask for qualified technicians to check the machine before restart

• Do not try to repair the device by yourself without technical aid or approval.

• When this product is in use, the relevant contents of Microsoft, Apple and Google will be involved in. The pictures and screenshots in this manual are only used to explain the usage of our product. The ownerships of trademarks, logos and other intellectual properties related to Microsoft, Apple and Google shall belong to the above-mentioned companies.

• This manual is suitable for 4/8/16-channel HD-TVI digital video recorders. All examples and pictures used in the manual are from 4-channel DVR.

Table of Contents

1 Introduction	
1.1 DVR Introduction	
1.2 Main Features	1
2 Hardware Installation	3
2.1 Install Hard Drive	
2.2 Front Panel Descriptions.	
2.3 Rear Panel Instructions	
2.4 Remote Controller	
2.5 Control with Mouse	
2.5.1 Connect Mouse	6
2.5.2 Use Mouse	6
2 Desis Francis Landon etter	0
3 Basic Function Instruction 3.1 Power On/Off	
3.1.1 Power On	
3.1.2 Power Off	
3.2 Login	
3.4 Live Playback	
J.+ Live Thayback)
4 Main Menu Setup Guide	
4.1 Basic Configuration	10
4.1.1 System	11
4.1.2 Time & Date	11
4.1.3 DST	12
4.2 Live Configuration	12
4.2.1 Live	12
4.2.2 Main Monitor	13
4.2.3 Mask	13
4.3 Record Configuration	14
4.3.1 Enable	15
4.3.2 Record Bitrate	15
4.3.3 Time	
4.3.4 Stamp	
4.3.5 Recycle Record	
4.3.6 Snap	
4.4 Schedule Configuration	
4.4.1 Schedule	
4.4.2 Motion Schedule	
4.5 Alarm Configuration	
4.5.1 Motion Alarm	
4.5.2 Video Loss	
4.5.3 Other Alarm	
	- 1

4.5.4 Alarm Out4.6 Network Configuration	
4.6.1 Network	
4.6.2 Sub Stream	
4.6.3 Email	
4.6.4 Server	
4.6.5 NAT	
4.6.6 Other Settings	
4.7 User Management Configuration.	
4.8 P.T.Z Configuration	
4.9 Advanced	33
4.9.1 Reset	33
4.9.2 Import/Export	33
4.9.3 Block/Allow List	33
5 Search, Playback & Backup5.1 Time Search	
5.1 Fine Search	
5.3 File Management	
5.4 Search by Image	
5.5 Backup	
	20
6 Manage DVR6.1 Check System Information	
6.1.1 System Information	
6.1.2 Event Information	
6.1.3 Log Information	
6.1.4 Network Information	
6.1.5 Online Information	
6.1.6 Record Information	
6.1.7 QRCODE	
6.2 Disk Management	
6.3 Upgrade	
6.4 Logoff	
7 Remote Surveillance	
7.1 IE Remote Surveillance by NAT	
7.1.1 NAT Settings	
7.1.2 NAT Access	41
7.2 IF Domoto Surveillonce vie LAN & WAN	
7.2 IE Remote Surveillance via LAN & WAN	42
7.2.1 Via LAN	42 42
7.2.1 Via LAN 7.2.2 Via WAN	42 42 42
7.2.1 Via LAN7.2.2 Via WAN7.3 Remote Surveillance through Apple PC	42 42 42 43
 7.2.1 Via LAN 7.2.2 Via WAN 7.3 Remote Surveillance through Apple PC 7.3.1 Via LAN 	42 42 42 43 43
 7.2.1 Via LAN 7.2.2 Via WAN 7.3 Remote Surveillance through Apple PC 7.3.1 Via LAN 7.3.2 Via WAN 	42 42 42 43 43 45
 7.2.1 Via LAN 7.2.2 Via WAN 7.3 Remote Surveillance through Apple PC 7.3.1 Via LAN 	42 42 42 43 43 45 45

7.5.2 Remote 7.6 Remote Sy 7.7 Tools	Playback Backup ystem Configuration	
Appendix A	FAQ	52
Appendix B	Calculate Recording Capacity	56
Appendix C	Compatible Devices	57
Appendix D	4 CH Specifications	58
Appendix E	8 CH Specifications	
Appendix F	16 CH Specifications	60

1 Introduction

1.1 DVR Introduction

This model is standard 4/8/16 CH real time real time 720P high resolution DVRs, which adopts high performance video processing chips and embedded Linux system. Meanwhile, it utilizes many most advanced technologies, such as standard H.264 with low bit rate, Dual stream, SATA interface, VGA output mouse supported, IE browser supported with full remote control, mobile view(by phones), etc., which ensure its powerful functions and high stability. Due to these distinctive characteristics, it is widely used in banks, telecommunication, transportation, factories, warehouse, and irrigation and so on.

1.2 Main Features

COMPRESSION FORMAT

• Standard H.264 compression with low bit rate and better image quality

LIVE SURVEILLANCE

- Supports HDMI/ VGA output
- Supports 4/8/16 CH HD-TVI video input
- Supports channel security by hiding live display
- Display the local record state and basic information
- Supports USB to make full control

RECORD MEDIA

• Supports one SATA HDD to record for a longer time without any limitation

BACKUP

- Supports USB 2.0 devices to backup
- Supports saving recorded files with AVI standard format to a remote computer through internet

RECORD & PLAYBACK

- Record modes: Manual, Schedule and Motion detection recording
- Supports recycle after HDD full
- Resolution, frame rate and picture quality are adjustable
- 4 /8/16CH 1080P recording
- 1 audio channels available
- Three record search modes: time search, event search and image search
- 4/8 channels playback simultaneously
- Supports deleting and locking the recorded files one by one
- Supports remote playback in Network Client through LAN or internet

ALARM

• Supports schedule for motion detection

• Supports pre-recording and post recording

PTZ CONTROL

- Supports various PTZ protocols
- Supports 128 PTZ presets and 8 auto cruise tracks
- Supports remote PTZ control through internet

SECURITY

• Customize user right: log search, system setup, two way audio, file management, disk management, remote login, live view, manual record, playback, PTZ control and remote live view

- Supports 1 administrator and 63 users.
- Supports event log recording and checking, events unlimited

NETWORK

- Supports TCP/IP, DHCP, PPPoE, DDNS protocol
- Supports NAT technology
- Supports IE browser to do remote view
- Supports QRCODE Scanning through mobile phone client
- Supports setup client connection amount
- Supports dual stream. Network stream is adjustable independently to fit the network bandwidth and environment.
- Supports picture snap in remote live
- Supports remote time and event search, and channel playback with picture snap
- Supports remote PTZ control with preset and auto cruise
- Supports remote full menu setup, changing all the DVR parameters remotely
- Supports mobile surveillance by phones with iPhone, Android & Blackberry OS
- Supports CMS/NVMS to manage multi devices on internet

2 Hardware Installation

2.1 Install Hard Drive

Check the unit and the accessories after getting the DVR. Please don't power up the unit till the physical installation is complete.

Notice: 1. This series support one SATA hard drive. Please use the hard drive the manufacturers recommend specially for security and safe field. 2. Please calculate HDD capacity according to the recording setting. Please refer to





① Loosen the screws on the back and side of the device to remove the cover.



(2) Take out the HDD.



③ Put the HDD on the bottom of the device.



(5) Connect the power and data cables.



(4) Turn over the device and fix the HDD with the screws.



(6) Install the cover back and fix it with the screws.

Note: For convenience installation, please connect the power and data cables first and then fix the HDD with the screws.

2.2 Front Panel Descriptions

Notice: The front panel descriptions are only for reference; please make the object as the standard.

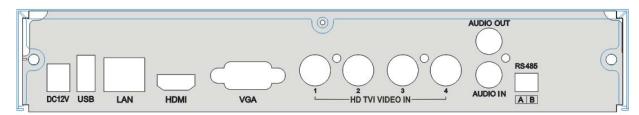
Front panel I

Name	Description	
REC	When recording, the light is blue	
Net	When access to network, the light is blue	
Power	Power indicator, when connection, the light is blue	
Fn	Switch the output between VGA and HDMI	

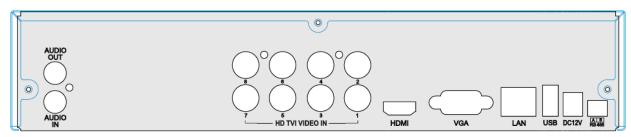
Front panel II

Name	Description	
Power indicator	Power Indicator, when connected, the light is blue.	
HDD indicator	The light turns blue when reading/writing HDD.	
Net indicator	The light turns blue when it is able to access the network.	
Backup indicator	The light turns blue when backing up files and data.	
Play indicator	The light turns blue when playing video.	
REC indicator	The light turns blue when recording	
Record button	Record manually	
Play button	Enter play interface	
REW button	Rewind key	
FF button	Fast forward	
MENU/+ button	1. Enter menu in live 2. Increase the value in setup	
BACKUP/- button	1. Decrease the value in setup 2. Enter backup mode in live	
STOP/ESC button	1. Quit play mode 2. Exit the current interface or status	
Direction button/	Change direction to select items	
Multi-screen	Change screen display mode like1/4/9/16 channel	
Enter button	Confirm selection	
USB	Connect to USB mouse, or USB storage device	

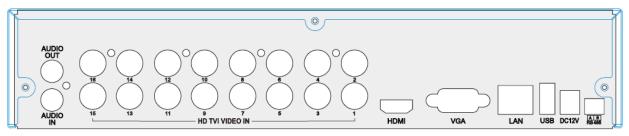
2.3 Rear Panel Instructions



Rear Panel for 4 CH



Rear Panel for 8 CH



Rear Panel for 16 CH

Name	Descriptions
DC12V	DC12V Power Input.
USB	To connect external USB devices like USB mouse or USB storage device.
LAN	Network Port.
HDMI	HDMI Port. Connect to high-definition display device.
VGA	VGA Port. Connect to monitor.
HD TVI VIDEO IN	4 CH HD TVI Video Inputs.
AUDIO OUT	Audio output, connect to the sound box.
AUDIO IN	1 CH Audio Input.
RS485	Connect to keyboard or speed dome; A is TX +; B is TX

2.4 Remote Controller

It uses two AAA size batteries.

- (1) Open the battery cover of the remote controller.
- (2) Place batteries. Please take care the polarity (+ and -).
- ③ Replace the battery cover.

Key points to check in case the remote doesn't work.

- 1. Check batteries polarity.
- 2. Check the remaining charge in the batteries.
- 3. Check IR controller sensor for any masking.

If it still doesn't work, please change a new remote controller to try, or contact your dealers.

The interface of remote controller is shown below.



Button	Function			
REC	Record manually.			
Search	To enter search mode.			
MEUN	To enter menu.			
Exit	To exit the current interface.			
ENTER	To confirm the choice or setup.			
Direction	To move aurger in gatur			
button	To move cursor in setup.			
ZOOM	To zoom in.			
PIP	To set picture in picture.			
▶ ▶ ▶ ▶ ▶	To control playback. Play/Pause/Stop/Previous			
	Section/Next Section/Rewind/Fast Forward.			
Multi	To choose multi screen display mode.			
Next	To switch between single picture and picture group.			
SEQ	To enter auto dwell mode.			
INFO	Get information about DVR like firmware version,			
	HDD information.			

2.5 Control with Mouse

2.5.1 Connect Mouse

It supports USB mouse through the ports on the rear panel.

If mouse is not detected or doesn't work, check below steps:

- 1. Make sure the mouse is plugged in the USB mouse port.
- 2. Try with a good know mouse.

2.5.2 Use Mouse

During live:

Double-click on any camera window to see the full screen. Double-click again to return to the previous screen.

Right click to reveal the control menu on the screen. Right click again to hide the menu.

In Configuration:

Click to enter a particular option. Right click to cancel the option or to return to the previous menu.

In order to input a value in a particular screen, move cursor to the input box and click. An input window will appear as below. It supports digits, alphabets and symbols input. Click Shift button to input Capital letters and symbols; click Shift button again to return.

It supports mouse drag. Take setting up motion detection area for example: Click customized, hold down the left button and drag to set motion detection area.

****	**_										
1	2	3	4	5	6	7	8	9	0	Bac	kspace:
q	w	е	r	t	у	u	i	o	р	[] \
а	s	d	f	g	h	j	k	I	;		Enter
St	nift	z	x	с	v	b	n	m	,		
E	sc										- =

Click to choose the options. Right click to return to live mode.

In Backup:

Click to choose the options. Right click to return to previous picture.

In PTZ Control:

Click left button to choose the buttons to control the PTZ. Click right button to return to live.

Note: *Mouse is the default tool for all operations unless an exception, as indicated.*

3 Basic Function Instruction

3.1 Power On/Off

Before you power on the unit, please make sure all the connection is good.

3.1.1 Power On

- ① Connect with the power.
- (2) The device will boot and the power LED would turn blue.
- ③ A WIZZARD window will pop up and show some information about time zone, time setup, network configuration, record configuration and disk management. User can set up here and refer to the concrete setup steps from the corresponding chapters. If users don't want to set up Wizard, please click Exit button to exit. Press and hold FN/ESC key to switch the output between VGA and HDMI.

3.1.2 Power Off

You can power off the device by using remote controller, keyboard and mouse.

- ① Go to III Menu and then select "Shut Down" icon to pop up the Shut down window.
- ② Click OK. Then the unit will power off after a while.
- ③ Disconnect the power.

3.2 Login

User can login or log off the DVR system. Once logged off the user cannot do any other operation except changing the multi-screen display.

LOGIN		X
User Name		
admin		
Password		

	Login	Cancel



Notice: The default user name and password is "*admin*" and *123456*". For complete operational steps for changing password, adding or deleting users, please refer to section 4.7 User Management Configuration.

3.3 Live Preview

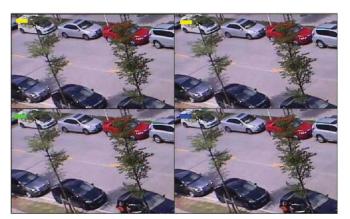


Fig 3-2 Live Preview Interface

Symbol	Meaning		
Green	Manual record		
Yellow	Motion detection record		
Blue	Schedule record		

3.4 Live Playback

Click Playback button to playback the record. Refer to Fig 3-3. User can do complete operation by clicking the buttons on screen.

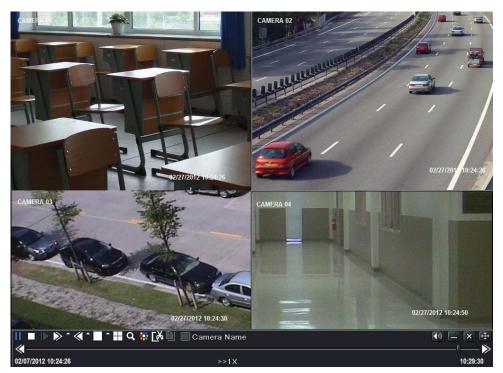


Fig 3-3 Live Playback

4 Main Menu Setup Guide

Click right mouse or press FN/ESC button on the front panel and then the control bar will display at the bottom of the screen. Refer to Fig 4-1.

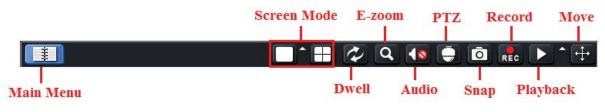


Fig 4-1 Main Menu Toolbar

Screen Mode: Click to choose screen mode.

Dwell: Dwell means to display live images from different cameras in a sequence. The images may be displayed as a single channel or in a grid fashion from different cameras. Dwell mode is enabled only when the chosen display mode is not able to display all the available cameras. **E-Zoom:** Single channel large screen electronic amplification.

Audio: Enable sound.

PTZ: Click the PTZ button to control rotation position, speed and auto scan of the PTZ.

Snap: Click this button to snap the live pictures. These pictures will automatically be saved in the SATA disk.

Record: Click this button to start/stop recording.

Playback: Click this button to playback the record files.

Click Main Menu button to pop up a window as Fig 4-2. You can also press MENU button on the front panel or operate with remote controller to display the main menu. Clicking Setup icon will pop up the configuration menu.



Fig 4-2 Setup

4.1 Basic Configuration

Basic configuration includes three sub menus: system, date & time and DST.

4.1.1 System

Go to Menu \rightarrow Setup \rightarrow Basic \rightarrow System interface. Refer to Fig 4-3.

BASIC	X
System Date & Time DST	
Device Name	EDVR
Device ID	0
Video Format	NTSC
Password Check	
Show System Time	
Max Online Users	10
Video Output	VGA 800X600
Language	English
Logout After [Minutes]	Never 🗸 🗸
	Default Apply Exit

Fig 4-3 Basic Configuration-System

In this interface you can set up the device name, device ID, video format, max network users, VGA resolution, language and so on. The definitions for every parameters display as below:

Device Name: The name of the device. It may display on the client end or CMS that help user to recognize the device remotely.

Device ID: This ID is used to map the speed dome cameras.

Video Format: Two modes: PAL and NTSC. User can select the video format according to that of camera.

Password Check: If this option is enabled, the user would need to input the user name and the password for performing corresponding operations.

Show System Time: If selected, the current time will be displayed during live monitoring.

Max Online Users: To set the max number of concurrent user logins in the DVR.

Video Output: The resolution of live display interface.

Language: Set up the menu language.

Note: *After changing the language and video output, the device needs to login again.*

Logout After (Minutes): A user can set up the screen interval time (30s, 60s, 180s, 300s). If there is no any operation within the setting period, the device will auto logout and return to login interface.

Show Wizard: If selected, the GUI would launch the startup wizard on every boot, allowing the user to do basic setup.

No Image When Logout: If selected, there will be no image showing when logging out.

4.1.2 Time & Date

(1) Go to Menu \rightarrow Setup \rightarrow Basic \rightarrow Date & Time interface. Refer to Fig 4-4.

HD-TVI DVR User Manual

BASIC	X
System Date & Time DST	
Date Format	MM-DD-YY
Time Format	24 Hour
Time Zone	GMT
Sync Time With NTP Server	
NTP Server	time.windows.com
	Update Now
System Date	03 / 05 / 2013 25
System Time	15 : 32 : 20
	Save Now
	Default Apply Exit

Fig 4-4 Basic Configuration-Date & Time

- (2) Set the date format, time format, time zone in this interface; checkmark "Sync Time With NTP Server" to refresh NTP server date. You can also adjust system date manually.
- ③ Click "Apply" button to save the setting.

4.1.3 DST

(1) Go to Menu \rightarrow Setup \rightarrow Basic \rightarrow DST interface. Refer to Fig 4-5.

BASIC	X
System Date & Time DST	
Daylight Saving Time	
Time Offset [Hours]	1
Mode	O Week O Date
From	January 🔽 🍳
	The 1st
	Sunday 💌
	00 : 00 : 00
Until	January 🔽
	The 1st 🔽 🗸
L	Default Apply Exit

Fig 4-5 Basic Configuration-DST

- (2) In this interface, enable daylight saving time, time offset, mode, start & end month/week/date, etc.
- (3) Click "Apply" button to save the setting.

4.2 Live Configuration

Live configuration includes three submenus: live, main monitor and mask.

4.2.1 Live

In this interface, you can set up camera name.

To set up camera name:

(1) Go to Menu \rightarrow Setup \rightarrow Live. Refer to Fig 4-6.

HD-TVI DVR User Manual

Live	Main Monitor Mask	
сн	Camera Name	Show Name
1	CAMERA01	
2	CAMERA02	
3	CAMERA03	
4	CAMERA04	
All		Recording Status 🗹
		Setting

Fig 4-6 Live Configuration→Live

- ② A software keyboard will pop up by clicking camera name area. Click the letters and (or) digital numbers on the keyboard to input the name you want to display in live image.
- (3) Checkmark the camera name in the show name area.
- (4) All channels will show the camera name by checking "All" checkbox.
- (5) Click "Apply" to save the setting.

4.2.2 Main Monitor

The main monitor settings allow you to set camera sequence in live display mode. Operate the following steps to set main monitor:

(1) Go to Menu \rightarrow Setup \rightarrow Live \rightarrow Main Monitor interface. Refer to Fig 4-7.



Fig 4-7 Live Configuration-Main Monitor

- ② Select display mode and channel.
- Select dwell time. Click button to set up the previous channel groups of dwell picture. Click button to set the latter channel groups of dwell picture.
- (d) Click "Apply" to save the setting.

4.2.3 Mask

If there is something you don't want to display in the live image. You can set mask. For a

given channel a maximum of three areas can be masked.

To set up mask area:

(1) Go to Menu \rightarrow Setup \rightarrow Live \rightarrow Mask interface.

	Main Monitor Mask
СН	Mask Area
1	Setting
2	Setting
3	Setting
4	Setting

Fig 4-8 Live Configuration-Mask

- ② Click Setting button to go into live image.
- ③ Press and drag the left mouse button to set mask area as shown below.
- ④ Right click to exit the mask setting interface.
- (5) Click Apply button to save the setting.

To delete mask area

- ① Click Setting button in the mask interface.
- ② Select a certain masked area and double click to delete that masked area.
- (3) Then click Apply button to save the setting.



Fig 4-9 Setting Mask Area

4.3 Record Configuration

Record configuration includes six sub menus: enable, record bit rate, time, recycle record, stamp and snap.

Before Configuration, please make sure your DVR has been installed with HDD and has completed its initialization.

4.3.1 Enable

(1) Go to Menu \rightarrow Setup \rightarrow Record \rightarrow Record interface. Refer to Fig 4-10.

REC	RECORD							
Enab	Record Bitrate	Time Stamp Recycle Record Snap						
СН	Record	Audio						
1								
2								
3								
4								
All								
		Default Apply Exit						

Fig 4-10 Record Configuration-Record

Parameter	Meaning
Record	To enable/disable recording for the channel
Audio	To enable/disable audio recording for the channel

- (2) Checkmark record and audio.
- ③ Select All to set up the same settings for all channels.

4.3.2 Record Bitrate

(1) Go to Menu \rightarrow Setup \rightarrow Record \rightarrow Record Bitrate. Refer to Fig 4-11.

REC	ORD									X
Enab	le Record	Bitrate	Time	Stamp	Red	ycle Reco	rd 🕄	Snap		
СН	Resolutio	fps		Encode		Quality	N	Aax Bitr	ate	
1	720P 💌	30		CBR		Higher		1536 ki	ps	
2	720P 💌	30		CBR		Higher]	1536 kt	ps	
3	720P 💌	30		CBR		Higher		1536 ki	ps	U
4	720P 💌	30		CBR		Higher		1536 ki	pps	
	720P 💌	30		CBR		Higher		1536 ki	ps	
					D	efault	Ар	ply	E	xit

Fig 4-11 Record Configuration-Record Bitrate

- ② Set up rate, resolution, quality, encode and max bit stream.
- ③ Select "All" to set the same settings for all channels.
- (d) Click "Apply" button to save the setting.

Parameter	Meaning	
Rate 720P: 1-30 (NTSC) /1-25(PAL); 1080P: 1-15 (NTSC) /1-12(F		
Resolution This series supports 720P, 1080P.		
Quality	The higher the value is, the clearer the recorded image is. Six options: lowest, lower, low, medium, higher and highest.	
Encode VBR and CBR.		
Max bit stream	You shall adjust it subject to the actual network condition.	

4.3.3 Time

(1) Go to Menu \rightarrow Setup \rightarrow Record \rightarrow Time interface to set recording time. Refer to Fig 4-12.

REC	ORD		X
Enat	le Record Bitrate Time	Stamp Recycle Record	Snap
СН	Pre-alarm Record Tim	Post-alarm Record Tim	Expire[Days]
1	5 💌	30 🛡	Never 🛡
2	5 💌	30 💌	Never 💽
3	5 💌	30 💌	Never 💽
4	5	30	Never 💽
All			
	5	30	Never 💌
		Default /	Apply Exit

Fig 4-12 Record Configuration-Time

(2) Set Pre-alarm record time and post-alarm record time. Select "All" to set the same settings for all channels.

Pre-alarm Record Time: Set the time in seconds to pre-record before the actual recording begins.

Post-alarm Record Time: Set the time in seconds to post-record after the actual recording has finished, five options: 10s, 15s, 20s, 30s, 60s, 120s, 180s and 300s.

Expire Time: Set the expiration time for recorded video. If the set date is overdue, the recorded files will be deleted automatically.

③ Click "Apply" to save the setting.

4.3.4 Stamp

This provides an option to enable or disable the Camera Name and the Time stamp on the video. The user can also choose a position for the stamp on the screen. To set up stamp as follows:

(1) Go to Menu \rightarrow Setup \rightarrow Record \rightarrow Stamp interface. Refer to Fig 4-13.

REC	RECORD								
Enat	ole Record Bitrate	Time Stamp Recy	cle Record Snap						
СН	Camera Name	Time Stamp	Position						
1			Setting						
2			Setting						
3			Setting						
4			Setting						
All									
			Setting						
		Def	fault Apply Exit						

Fig 4-13 Record Configuration-Stamp

② Checkmark camera name and time stamp. Click Setting button to set up the position of the stamp. You can drag the camera name and time stamp at random positions. Refer to below Figures:



Before drag

After drag

③ Select "All" to set up all channels with the same parameters.

4.3.5 Recycle Record

This option is used to recycle the HDD space once it is full. If enabled, the system will automatically delete the old records and recycle the space if it is completely utilized. The setting steps are as follows:

- (1) Go to Menu \rightarrow Setup \rightarrow Record \rightarrow Recycle Record interface;
- (2) Checkmark recycle record to activate auto recycling. If the option is disabled or not selected, the DVR would stop recording once HDD is full.
- ③ Click "Apply" button to save the setting.

4.3.6 Snap

In this interface, user can set up Resolution, quality, snap interval, snap number.

4.4 Schedule Configuration

Schedule configuration includes two sub menus: schedule and motion.

4.4.1 Schedule

This tab allows defining schedule for normal recording for seven days of a week, 24 hours of a day. Every row denotes an hourly timeline for a day. Click the grid to do relevant setup. A highlighted area denotes selected timeline. Operate the following steps to set schedule:

- (1) Go to Menu \rightarrow Setup \rightarrow Schedule interface. Refer to Fig 4-14.
- ② Select channel and click " button to add a certain day schedule. Click " button to delete the selected schedule.

If you want to apply the schedule setting of a certain channel to other or all channels, you need to select channel and click "Copy" button.

SCHEDULE						X
Schedule Mot	tion					
Channel	1	5				
	100:00	04:00	08:00	12:00	16:00	20:00
Sunday						
Monday						
Tuesday						
Wednesday						
Thursday						
Friday						
Saturday						
Apply Settings	To All] Channe	ł	Сору	
			De	efault	Apply	Exit

Fig 4-14 Schedule Configuration-Schedule

You can also set week schedule by double-clicking in the grinding area. This will take you to see a dialog box as Fig 4-15.

- Select a day and click "Add" button to set start time and end time. Then click v to save.
- ② Select other days and add schedule or copy settings from one schedule to the others under the Apply Settings To item.

SCHEDULE	X							
Week Days Wednesda 💌 Apply Se	ettings To All Copy							
Start Time End Time								
Start Time								
Hour 0 🔽 Minute 0								
End Time ———								
Hour 23 💌 Minute 59								
	× ×							
Add Delete	OK Exit							

Fig 4-15 Schedule-Week Schedule

4.4.2 Motion Schedule

This tab allows to set schedule for motion based recording. The setting steps are as follows:

- (1) Go to Menu \rightarrow Setup \rightarrow Schedule \rightarrow Motion tab.
- (2) The setup steps for schedule for motion based recording are similar to normal schedule setup. You can refer to 4.4.1 Schedule for details.

Note: The default schedule of motion based recording is 24 x7. If you want to activate motion based recording, you must enable motion alarm and set up schedule for motion alarm (see Chapter 4.5.1 Motion Alarm for more details).

4.5 Alarm Configuration

Alarm configuration includes four sub menus: motion, video loss, other alarm and alarm out.

4.5.1 Motion Alarm

Motion includes two sub menus: motion and schedule. The steps to set motion alarm are as follows:

- (1) Go to Menu \rightarrow Setup \rightarrow Alarm \rightarrow Motion. Refer to Fig 4-16.
- ② Enable motion alarm, set alarm hold time which refers to the time till which the system will wait for further detection of motion. e.g. If the holding time is set to 10 seconds, once the system detects a motion, it will go into alarm but would not detect any other motion alarm (specific to channel) until 10 seconds. If there is other motion detected during this period it is considered it as continuous movement, otherwise it will be considered as a single motion.

мот	ION				X
Motio	Schedu	le			
СН	Enable	Holding Time[S]	Trigger	Area	
1		10	Setting	Setting	
2		10	Setting	Setting	
3		10	Setting	Setting	
4		10	Setting	Setting	
All	<u>.</u>			<u>.</u>	
		10			
			Default	Apply	Exit

Fig 4-16 Alarm Configuration-Motion

③ Click "Setting" button under the Trigger area. Then a window will pop up as below:

HD-TVI DVR User Manual

TRIGGER - Channel 1	X
Alarm To Record	
Buzzer	
Show Full Screen	None
Email	
Snap	
	OK Exit

Fig 4-17 Alarm Configuration-Motion Trigger

Buzzer: If selected, the local buzzer would be activated on an alarm.

Show Full Screen: If selected, there will pop up the chosen channel on the monitor on an alarm trigger.

Email: If selected, the DVR will send an email alert to the preconfigured email address in case of a motion based alarm from the particular input.

Snap: If selected, the system will snap images of the checked channels on an alarm and save them in the HDD automatically.

- Go to To Record tab. Select recording channels. It would be recorded in case of an alarm. Click OK button to save the setting.
- (5) After clicking Area button, a dialog box will pop up as Fig 4-18.
- (6) In the Area interface, you can drag slide bar to set the sensitivity value (1-8). The higher the value is the more sensitive it is to motion. Since the sensitivity is influenced by color and time (day or night), you can adjust its value according to the practical conditions. Left click the grid and drag to delete area. Click icon to set the whole area as detection area. Click icon to clear the set detection area. Click icon to test the sensitivity as per the local conditions. Once motion is sensed, it displays a figure icon. Click icon to save the setting. Click icon to exit the current interface.



Fig 4-18 Motion-Area

Note: Prior to setting motion detection field it is recommended that you click *cont* icon to clear the existing field and set afresh.

- ⑦ Select "All" to set the same settings for all channels.
- (8) Click "Apply" button to save the setting.
- (9) Go to Schedule tab. The setting steps for schedule for motion based alarm are similar to normal schedule setup (see Chapter 4.4.1 for more details).

4.5.2 Video Loss

This DVR can be set up to detect video loss. The setting steps are as follows:

- (1) Go to Menu \rightarrow Setup \rightarrow Alarm \rightarrow Video Loss. Refer to Fig 4-19.
- ② The setup steps of video loss trigger are similar to motion trigger setting. (See Chapter 4.5.1 Motion → Trigger setting for more details).

VID	EO LOSS			X
1	Trigger			
2	Trigger			
3 [Trigger			
4	Trigger			
∟⊥ All				
	Trigger			
		Default	Apply	Exit

Fig 4-19 Alarm Configuration-Video Loss

4.5.3 Other Alarm

This tab gives a choice to configure alarm for Disk Full, IP Conflict, the Disconnect event, Disk Attenuation or Disk Lost.

(1) Go to Menu \rightarrow Setup \rightarrow Other Alarm. Refer to Fig 4-20.

OTHER ALARM	X
Alarm Type	Disk Full
	Disk Full
Buzzer	IP Conflict
Email	Disconnect
	Disk Attenuation
Disk Shortage Alarm	Disk Lost
	Default Apply Exit

Fig 4-20 Other Alarm

- ② Use the dropdown menu and select the event or the alarm.
- ③ Check the required trigger options.
- (4) If the selected event is "Disk Full", then use the drop down box for "Disk Shortage Alarm" to choose a threshold value for remaining HDD space. If the threshold value is reached, the system will trigger the Disk Full Alarm.
- (5) Click "Apply" to save the setting.

4.5.4 Alarm Out

To set up alarm out:

(1) Go to Menu \rightarrow Setup \rightarrow Alarm Out. Refer to Fig 4-21.

ALARMOUT	X
Buzzer	
Buzzer Hold Time[S]	10
	Default Apply Exit

Fig 4-21 Alarm Out

(2) Checkmark Buzzer and set buzzer alarm hold time. This would trigger the buzzer when the system is on an alarm.

4.6 Network Configuration

Network configuration includes six submenus: Network, Sub Stream, Email, Server, NAT and Other Settings. Network settings must be configured if DVR is used for monitoring over network.

4.6.1 Network

To set up network:

- (1) Go to Menu \rightarrow Setup \rightarrow Network \rightarrow Network tab. Refer to Fig 4-22.
- ② Set HTTP port. The default HTTP port is 80. If the value is changed, you shall add the port number when typing IP address in IE address blank. e.g. If HTTP port is set to 82 and IP address is http://192.168.0.25, you should input the following IP address: http://192.168.0.25:82 into IE browser.
- ③ Set server port. The default server port is 6036.

HD-TVI DVR User Manual

NETWORK	X
Network Sub-stream Email Server	NAT Other Settings
IP Address	192.168.011.061
Subnet Mask	000.000.000.000
Gateway	192.168.011.001
Preferred DNS Server	192.168.011.001
Alternate DNS Server	000.000.000.000
PPPoE	
User Name	
Password	
	Test
	Default Apply Exit

Fig 4-22 Network Configuration-Network

- ④ Connect internet. There are three ways to connect internet.
- If you have a DHCP server running and would like your DVR to automatically obtain an IP address and other network settings, check the checkbox beside "Obtain an IP address automatically". Then the device will distribute IP address, subnet mask, and gateway IP and DNS server.
- If you want to configure your own settings, disable "Obtain an IP address automatically" item and input the IP address, subnet mask, gateway IP and DNS server.
- If you connect internet through PPPoE, disable "Obtain an IP address automatically" item and check PPPoE checkbox and then enter username and password. Once the setup is completed, your DVR will automatically dial up into your network.
- (5) Test the effectiveness of the network by clicking "Test" button after you set up the network.
- (6) If the network is well connected, please click "Apply" button to save the setting.

4.6.2 Sub Stream

To set up sub stream:

(1) Go to Menu \rightarrow Setup \rightarrow Network \rightarrow Sub Stream interface. Refer to Fig 4-23.

NET	WORK				X
Netw	ork Sub-strea	im Email	Server NAT	Other Setti	ngs
СН	Resolutio fp	s	Encode	Quality	Max Bitrate
1	CIF 🔽 3		CBR 🛡	Higher 🥃	512 kbps 🛛 🗖
2	CIF 🔽 3		CBR 🛡	Higher 🥃	512 kbps 🕞
3	CIF 🔽 3		CBR 🛡	Higher 🥃	512 kbps 🔍
4	CIF 🔽 3		CBR 🛡	Higher 🥃	512 kbps 🔍
5	CIF 🔽 3	G	CBR 🛡	Higher 🥃	512 kbps 🔽
6	CIF 🔽 3		CBR 🛡	Higher 🥃	512 kbps 🔽 🔽
All	Remair	ning : 64 (C	CIF).		
	CIF 🔽 3	X16 💌	CBR 💌	Higher 🧧	512 kbps 🛛 🖉
			D	efault A	pply Exit

Fig 4-23 Network Configuration-Sub Stream

Parameter	Meaning
FPS	Range from: 1-25.
Resolution	Support CIF.
Quality	The quality of the clients' image. The higher the value is, the clearer the record image. Six options: lowest, lower, low, medium, higher and highest.
Encode	VBR and CBR.
Max bit rate	Range from: 256~1792kbps.

- ② Select fps, resolution, quality, encode and max bit rate
- ③ Select "All" to set the same settings for all channels.

4.6.3 Email

To set up Email:

(1) Go to Menu \rightarrow Setup \rightarrow Network \rightarrow Email interface. Refer to Fig 4-24.

NETWORK	X
Network Sub-stream Email Server	NAT Other Settings
SMTP Server	
Port	25
SSL Check	
Send Address	
Password	
Receive Address1	
Receive Address2	
Receive Address3	
	Test
	Default Apply Exit

Fig 4-24 Network Configuration-Email

② Set SMTP Server and port.

SMTP Server/Port: The name and port number of SMTP server. You can set up SSL check (such as Gmail) according to actual needs.

③ Set sender's address and password.

④ Set receiver's email address and click "Test" button to test the validity of the mailbox. **Attaching image:** If selected, the system will attach images when sending emails.

4.6.4 Server

This function is mainly used for connecting ECMS/NVMS. The setting steps are as follows:

- ① In the server interface, select "Enable" as shown in the Fig 4-25.
- ② Check the IP address and port of the transfer media server in the ECMS/NVMS. The default server port for auto report is 2009. If it is modified, please go into the transfer media interface to check.

Network Sub-stream Email Serve	NAT Other Settings
Enable	
Server	192.168.3.123
Server Port	10002
Device ID	382

Fig 4-25 Network Configuration-Server

- ③ Enable the auto report in the ECMS/NVMS when adding a new device. Then input the remaining information of the device in the ECMS/NVMS and self-define a device ID.
- ④ Input the above-mentioned server IP, server port and device ID in the server interface. Then click "Apply" button to save the setting. Now, the ECMS/NVMS system will automatically connect this device.

4.6.5 NAT

- (1) Go to Menu \rightarrow Setup \rightarrow Network \rightarrow NAT interface. Refer to Fig 4-26.
- (2) Enable NAT and input the NAT Server and Port number (The default NAT Server is www.autonat.com; the default Port number is 8989).
- ③ Click "Apply" to save the settings.

NETWORK	X
Network Sub-stream Email Server	NAT Other Settings
NAT Enable	
NAT Server	www.autonat.com
Port	8989
	Default Apply Exit

Fig 4-26 Network Configuration-NAT

4.6.6 Other Settings

If your DVR is set to use PPPoE as its default network connection, you may set up DDNS to be used in connection. The setting steps are as follows:

- (1) Enable DDNS server.
- ② Select DDNS server.
- ③ Enter user name, password and host domain name of the registered website.

- ④ Click "Test" button to test the effectiveness of the relevant information.
- (5) Click "Apply" button to save the setting.

NETWORK	X
Network Sub-stream Email Server	Other Settings
DDNS	
DDNS Type	www.dvrdydns.com
User Name	
Password	
Host Domain	
DDNS Update [Hours]	3
	Test
UPnP	
	Default Apply Exit

Fig 4-27 Network Configuration-Other Settings

Note: The domain name selected by user is a banding domain name of DVR. User should logon the website provided by the server supplier to register a user name and password and then apply for a domain name online. After the successful application, user can access the device from the IE client by inputting that domain name.

Enable UPnP: Select UPnP here and then enable UPnP function in your router. Therefore, there is no need for you to forward LAN IP address and port in the router in connection of internet. After that, you can check the WAN IP address in the router.

Domain name Registration (Take www.dvrdydns.com for example)

1. Input www.dvrdydns.com in the IE address bar to visit its website. Then click "Registration" button to register as shown below.

ER NAME	XXXX
SSWORD	•••••
NFIRM	•••••
RST NAME	xxx
ST NAME	xxx
CURITY JESTION.	My first phone number.
SWER	XXXXXXXXX
IFIRM YOU'RE MAN	718408 New Captcha Enter the text you see above

2. Create domain name.

	You must create a d	omain name to continue.	
Domain name is not case-s	e must start with (a-z, 0-9). Can ensitive.	not end or start, but may conta	ain a hyphen and
	dvrdydns.com 🗸	Request Domain	

3. After you successfully request your domain name, you will see your domain in the list.

Search by Domain. Sear	ch	
		Click a name to edit your domain settings.
NAME	STATUS	DOMAIN
654321ABC	٢	654321abc.dvrdydns.com
Last Update: Not yet updated IP	Address: 210.21.22	29.138
Create additional domain names		

> DVR Setting

Connect DVR to the Network Client.

1. Go to Main menu \rightarrow Network \rightarrow Other Settings, checkmark DDNS, select "dvrdydns" at the DDNS Sever pull down list box and input user name and password.

2. Go to configuration interface of the router to map the server port and IP address (if the user enables UPnP function, he can skip this step). Click Save button to save the setting.

3. Login IE browser and input registered domain name "http://www.xxx.dvrdydns.com", connect to DVR client.

You can also quickly register the domain name in this interface.

1. Set the IP address manually in the network tab and then click "Other Settings" tab. Check "DDNS".

2. Select "www.autoddns.com" in DDNS Type column as shown above.

3. Enter the host name at random, like 123.

4.Click "Register" to register the domain name. When the successful prompt pops up, it means you are successfully register your domain name.

NETWORK	X
Network Sub-stream Email Server	Other Settings
DDNS	
DDNS Type	www.autoddns.com
Host Domain	.autoddns.com
	Register
UPnP	
	Default Apply Exit

If your IP address is not WAN IP address, you should forward your IP address and port in your router or enable UPNP function both in router and DVR. Then you can use the domain name

plus HTTP port to access your DVR.

	DDNS server		
DDNS server	Website provided by dynamic domain name supplier. The optional: www.meibu.com, www.dyndns.com, www.dvrdydns.com, www. autoddns.com, www.no-ip.com and mintdns type.		
User name	User name for log in the website of domain name supplier.		
Password	Password for log in the website of domain name supplier.		
Host domain	The domain name user registered at the supplier's website.		
Update interval	The interval time of upgrading DVR IP address.		

4.7 User Management Configuration

This tab allows you to add normal or advanced users. To add user and set up user authority:

(1) Go to Menu \rightarrow Setup \rightarrow Users. Refer to Fig 4-28.

USER MANAGEMENT		X
User Name	User Type	PC MAC Address
admin	Admin	00-00-00-00-00-00
Add Setup Delete	Change Pass	word Exit

Fig 4-28 User Management Configuration

(2) Click Add button to display a dialog box as Fig 4-29.

General Authority User Name guest Password	X
Password Confirm Password User Type Normal Binding PC MAC Address	
Confirm Password User Type Normal Binding PC MAC Address	
User Type Normal Binding PC MAC Address	
Binding PC MAC Address	
PC MAC Address 00-00-00-00-00	
ΟΚ	Exit

Fig 4-29 Add-General

- ③ In General tab, input username, password and select user type. You can also check "Binding PC MAC Address" and input this address.
- (4) Click "OK" to save the setting.

Note: When the default value of binding PC MAC Address is 0, the user is not bound with the specified computer. If the bind option is used, the user would be able to log into the DVR only through the specific computer (carrying the MAC address).

- (5) Select Authority tab and assign the operation rights for particular user. Refer to Fig 4-30.
- 6 Click OK to save the setting.

ADD USER	X
General Authority	
■ Log Search ■ System Setup ■ Shut Down ▼ Two Way Audio ■ File Managemen ■ Disk Manageme ▼ Remote Login	
 ✓ Live View ✓ 1 ✓ 2 ✓ 3 ✓ 4 ✓ Manual Record 	
V V 1 V 2 V 3 V 4 V Playback	Ø
ОК	Exit

Fig 4-30 Add User-Authority

To delete user:

- (1) Go to Menu \rightarrow Setup \rightarrow Users interface.
- ② Select the added user you want to delete and then click "Delete" button.

To modify user:

- (1) Go to Menu \rightarrow Setup \rightarrow Users interface.
- ② Select the added user you want to modify and then click "Modify" button to do the relevant operation.

To change user password

- (1) Go to Menu \rightarrow Setup \rightarrow Users interface.
- ② Select the added user you want to change its password and then click "Change Password" button.

4.8 P.T.Z Configuration

P.T.Z configuration includes two submenus: serial port and advanced. Serial port settings are as follows: (1) Go to Menu \rightarrow Setup \rightarrow P.T.Z \rightarrow Serial Port interface. Refer to Fig 4-31.

сн	 Advanced	-	Baud Rat	e	Protocol	Simulative Cruise
1	1	J	9600		PELCOP	
2	2	-	9600		PELCOP	
3	3	J	9600		PELCOP	
4	4		9600		PELCOP 🛡	
All						
			9600		PELCOP	

Fig 4-31 P.T.Z Configuration-Serial Port

Parameter	Meaning	
Address	The address of the PTZ device.	
Baud rate	Baud rate of the PTZ device. Range form: 110, 300, 600, 1200, 2400, 4800, 9600, 19200, 34800, 57600, 115200, 230400, 460800, 921600.	
Protocol	Communication protocol of the PTZ device. Range from: NULL, PELCOP, PELCOD, LILIN, MINKING, NEON, STAR, VIDO, DSCP, VISCA, SAMSUNG, RM110, HY, N-control.	
Simulative Cruise	If enabled, no matter whether the PTZ device supports cruise or not, the presets will cruise.	

- 2 Select "Enable" and set up the value of address, baud rate and protocol according to the settings of the speed dome.
- ③ Select "All" to set the same settings for all channels.

Advanced settings include preset setting, cruise setting and track setting. Go to Menu \rightarrow Setup \rightarrow P.T.Z \rightarrow Advanced. Refer to Fig 4-32.

P.T.Z	2		X
Seria	Il Port Advanced	1	
СН	Preset	Cruise	Track
1	Setting	Setting	Setting
2	Setting	Setting	Setting
3	Setting	Setting	Setting
4	Setting	Setting	Setting
		Defau	lt Apply Exit

Fig 4-32 P.T.Z configuration-advanced

To set up preset:

① In the Advanced interface, click preset "Setting" button to see a dialog box as Fig 4-33.

No.	Enable	Name	Preset
1		preset001	Setting
2		preset002	Setting
3		preset003	Setting
4		preset004	Setting
5		preset005	Setting
6		preset006	Setting
7		preset007	Setting
8		preset008	Setting
9		preset009	Setting
10		preset010	Setting

Fig 4-33 Advanced-Preset Setting

② In the preset setting tab, enable preset, set the preset name and then click preset "Setting" button.



Fig 4-34 Preset Setting

- ③ Control the dome by rotating up, up left, down, right down, left, left down, right and up right and adjust the rotate speed and the value of zoom, focus and iris of the dome.
- (4) Select the serial number of the preset point. Click is button to enable the PTZ wiper and click is button to enable the PTZ light.

Note: PTZ must support wiper and light button and these two buttons are just available when selecting PELCOP or PELCOD.

- Click Save button to save the setting. Click icon to hide the tool bar. Right click to view this bar again. Click icon to exit the current interface.
- (6) Return to the Advanced-Preset Setting interface and click OK button to save the setting.

To set up cruise:

 In the Advanced interface, click cruise "Setting" button to see a window as shown in Fig 4-35.

HD-TVI DVR User Manual

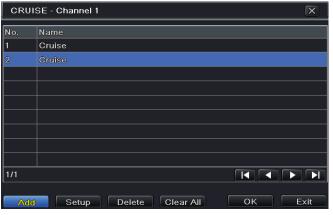


Fig 4-35 Cruise Setting

- ② Click Add button to add cruise line in the list box (8 cruise lines can be added at most).
- ③ Select a cruise line and click Setup button to see a dialog box as Fig 4-36.

CRUISE PRESET				X
No. 2	Name	Cruise		
Preset	Speed		Time	
				+
				*
				💌
				T
				•
0/0				
		Prev		Exit

Fig 4-36 Modifying Cruise Line

Click Add icon to set the speed and time of preset point. Select a preset point and then click Delete icon to delete that preset point. Click Modify icon to modify the setting of a preset point. User can click those icons to adjust the position of preset point. Click Preview button to preview the cruise line. Click OK button to save the setting.

To set up track:

- ① In the Advanced interface, click track "Setting" button to see a dialog box as Fig 4-37.
- 2 Control the dome by rotating up, up left, down, right down, left, left down, right and up right and adjust the rotate speed and the value of zoom, focus and iris of the dome.
- ③ Click Start Record button to record the move track of PTZ. Click this button again to stop record.
- ④ Click <u>Start</u> track button to play recorded track. Click this button again to stop playing.
- (5) Click icon to exit the current interface.

HD-TVI DVR User Manual



Fig 4-37 Track Setting

4.9 Advanced

Advanced configuration includes three submenus: reset, import/export and Block/Allow list.

4.9.1 Reset

Reset all settings of the device.

4.9.2 Import/Export

Export the data files into mobile storage devices for backup and then import specified data files from mobile storage device to DVR.

4.9.3 Block/Allow List

BLOCK	/ ALLOW LIST		X
	O Block List	Allow List	
ID	IP From	Τo	
1	192.168.000.002	192.168.000.004	
2	000.000.000.000	000.000.000.000	Ľ
3	000.000.000.000	000.000.000.000	
4	000.000.000.000	000.000.000.000	
5	000.000.000.000	000.000.000.000	
6	000.000.000.000	000.000.000.000	
7	000.000.000.000	000.000.000.000	
8	000.000.000.000	000.000.000.000	
9	000.000.000.000	000.000.000.000	
·		Default Apply	Exit

Fig 4-38 Block/Allow List

Here authorized user can prohibit computer users within a certain IP address range from accessing to DVR or allow computer users within a certain IP address range to access DVR. E.g. if an admin user doesn't want computer users within IP address range from 192.168.000.002 to 192.168.000.004 to access the DVR, he can check Block list option, and then input such IP address range. If it is required that computer users within a certain IP address range access DVR, they can check Allow List option and then do the required setting.

5 Search, Playback & Backup

Search configuration includes four submenus: time search, event search, file management and image.

5.1 Time Search

(1) Go to Menu \rightarrow Search \rightarrow Time Search. Refer to Fig 5-1.

SEARCH												X
Time Search Eve	ent Search F	ile Manager	nent Image								Sea	irch
	Start Time					201				3		
) : 00 : 00			Su	Mo	Tu	We	Th	Fr	Sa
00:00	04:00 0)8:00	12:00	16:00	20:00							
							4		6		8	
										14	15	
										21		
							25	26	27	28	29	30
						31						
							1		2	3	. 🗹	4

Fig 5-1 Search Configuration-Time Search

- ② Select date and channels on the right hand side and press the "Search" button. A date with highlighted borderline indicates presence of data.
- ③ Set the start time by clicking a particular grid or by entering the specific value in the start time field.
- ④ Select the channel display mode and click Play button to play record. Use the playback toolbar to control the playback.

Pause/Play Frame Backward E-zoom Cut	Hide Move Tool
II ■ > > ↑ ≪ ↑ ■ ↑ Ħ ♀ 🔅 [Ă 🗐 🔲 Camera Name	
03Stop (Forwardo: Screen Mode Color Backup >>1X	Audio Exit

> To set backup during a certain period in the playback interface:

Select the start time by dragging the slider and click $\overbrace{}^{\text{LM}}$ icon. Then select the end time and click this icon again to confirm the record period. Next, click $\overbrace{}^{\text{LM}}$ icon to backup the record during this period.

5.2 Event Search

(1) Go to Menu \rightarrow Search \rightarrow Event Search button. Refer to Fig 5-2.

Time	Search Eveni	Search File Management In	nage						Sea	irch
сн	Туре	Start Time	End Time	201	13			3		Į.
1	Motion	03/04/2013 09:44:52	03/04/2013 09:49:45	Su	Мо	Tu	We	Th	Fr	Sa
	Motion	03/04/2013 09:44:52	03/04/2013 09:49:45						1	
3	Motion	03/04/2013 09:44:52	03/04/2013 09:49:45	3	4					
4	Motion	03/04/2013 09:44:52	03/04/2013 09:49:45	10						
				17		19				
				24	25				29	
				31	_					
					I		2	3	: 🗹	4
				-11						
				11						
				11						
1/1				- 11						

Fig 5-2 Search Configuration-Event Search

- (2) Select date and channels on the right hand side. A data with highlighted borderline indicates presence of data.
- (3) Checkmark Motion or All accordingly.
- ④ Click Search button to display the searched event information in the event list box.
- (5) Double check a certain record file to playback.

5.3 File Management

(1) Go to Menu \rightarrow Search \rightarrow File Management interface. Refer to Fig 5-3.

	arch Event Search File M		10: -	201						
CH 1	Start Time 03/21/2013 15:11:40	End Time 03/21/2013 15:12:04	Status	Su		Tu	We		Fr	Sa
2	03/21/2013 15:11:40	03/21/2013 15:12:04		Su	mo	1 U	we	III	1	5
3	03/21/2013 15:11:40	03/21/2013 15:12:04		3	4	5	6	7	8	
4	03/21/2013 15:11:40	03/21/2013 15:12:04		10	11	12	13		15	
1	03/21/2013 15:11:40	03/21/2013 15:12:04		17				21	22	
1				24				28		
1				31						
1					1		2	3		4
1										
1										
1										
1										
1										
1										
<u>7 </u> 11										

Fig 5-3 Search Configuration-File Management

(2) Select date and channels. The date with highlighted borderline indicates presence of

data.

- ③ Click Search button to display the searched files in the file list box.
- ④ Use "All" button to lock/unlock or delete all files in the file management column.
- (5) Double click an unlocked item to play.

Lock: Select a file and click Lock button to lock this file, after that, that file will not be deleted or covered.

Unlock: Select a locked file and click "Lock" button to unlock this file.

Delete: Select an unlocked file and click "Delete" button to delete this file.

5.4 Search by Image

- (1) Go to Menu \rightarrow Search \rightarrow Image tab.
- ② Select data and channels on the right hand side.
- ③ Press "Search" button to search for a recorded image.
- (4) Once an alarm image has been identified, the user can double click the image to play recording.

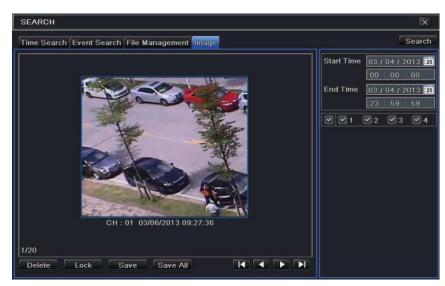


Fig 5-4 Search Configuration-Image

Lock: Select the image and click "Lock" button to lock this image. Save: Click "Save" button to copy the image on the HDD. Save All: Click "Save All" button to copy all images on the HDD.

5.5 Backup

This unit supports backup by USB Flash. You can also make backup by IE browser via internet (see section 7.3.2 Remote backup).

- (1) Insert USB storage device and then go into backup configuration. Refer to Fig 5-5.
- (2) Set the start & end time, select channels and click Search button to display the searched data in the data backup list box.

		End Time	Constant and the	
1	03/21/2013 15:11:40	03/21/2013 15:12:04	Start Time	
2	03/21/2013 15:11:40	03/21/2013 15:12:04		00 : 00 : 00
v 3	03/21/2013 15:11:40	03/21/2013 15:12:04	End Time	03 / 27 / 2013
4	03/21/2013 15:11:40	03/21/2013 15:12:04		23 : 59 : 59
				2 3 4
2				
3				
3				

Fig 5-5 Backup Configuration

③ Select a required file or checkmark "All" to select all data files. Click Backup button to display Backup information window.

Start Time	03/04/2013 00:00:00
End Time	03/04/2013 23:59:59
The Number Of Files	8
Size[GB]	1.008
Storage Media	USB 1
Free[GB]	0.000
Backup Player	
Save File Type	DVR
	0 %

④ In the backup information interface, you can check the relevant information of backup files, storage type, save file type, etc. Then click Start button to start backup.

Note: If the backup files are saved in DVR format, please check backup player. Only this player can play these files in DVR format. If the backup files are saved in AVI format, you can play these files with common media player.

6 Manage DVR

6.1 Check System Information

Check system information includes six submenus: system, event, log, network, online user and record.

6.1.1 System Information

In this interface, you can check the hardware version, MCU version, kernel version, device ID, etc.

6.1.2 Event Information

In this interface, you can search for events like motion and video loss. The utility provides an interface to have a date based and a channel based search. This report can further be saved on a USB flash drive as an html file using the export button.

6.1.3 Log Information

In this interface, you can search for relevant logs as per set date and event which includes Operation, Setup, Playback, Backup, Search, Check Information and Error. This report can further be saved on a USB flash drive as an html file using the export button.

6.1.4 Network Information

In this interface, you can check relevant parameters of network.

6.1.5 Online Information

In this interface, you can check the details of the connected online users.

Refresh: Refresh the current interface.

Disconnect: Disconnect the online users to access DVR. If this function is used by the admin, the particular PC will not be able to access the device for five minutes.

6.1.6 Record Information

In this interface, a user can check resolution, ftp and record status including motion recording, manual recording or schedule recording.

6.1.7 QRCODE

User can quickly access the mobile client by scanning QRCODE. Go to Main menu \rightarrow Information \rightarrow QRCODE tab. Refer to Fig 6-1.

HD-TVI DVR User Manual



Fig 6-1 Information Configuration

In this interface, you can scan the QRCODE through the mobile phone. Refer to Fig 6-2.



Fig 6-2 Information Configuration-QRCODE

6.2 Disk Management

To format the disk

① Go to disk management interface.

Note: *please format the hard disk before record.*

- (2) Click Refresh button to refresh the disk information in the list box.
- (3) Select a hard disk and click Format button to start format.

Note: All recorded files in the hard disk will be lost after formatting.

To check other information of disk

After you Go to Disk Management \rightarrow Advanced tab, you can check model, S/N, firmware, health status of the disk in this interface. You also can monitor the temperature, internal circuit,

dielectric material of the disk, analysis the potential problems of the disk and warn so as to protect its data.

6.3 Upgrade

At present, it only supports USB update. Get the software from your vendor when there is a new software version.

The upgrade steps are as follows:

- ① Copy the upgrade software which gets from vendor into the USB storage device.
- ② Connect the USB flash drive to the USB port.
- ③ Enter Menu→Upgrade tab. You will see the upgrade software name displaying in the upgrade list box.
- (4) Select that software and then click Upgrade button. The system will be upgraded automatically.

Note: Please wait for a while when the system reboots. Any power interruption is not allowed during upgrading.

6.4 Logoff

A log off dialogue box will pop up by clicking Log off icon. Then click OK button to confirm to log off. If you want to log in again, click icon to enter user name and password to re-login.

7 Remote Surveillance

7.1 IE Remote Surveillance by NAT

7.1.1 NAT Settings

- ① The DVR shall be powered on and connected to the network.
- ② Go to Menu→Setup→Network. You can obtain the IP address, Subnet Mask and Gateway automatically. You can also manually input them according to the configuration of PC. And the IP address shall be in the same network segment as the network which is used.
- ③ Set the preferred or alternative DNS Server (Please refer to 4.6.1 Network for details).
- (4) Go to Menu \rightarrow Setup \rightarrow Network \rightarrow NAT tab.
- (5) Enable NAT and input the NAT Server and port number (The default NAT Server is www.autonat.com; the default port number is 8989).
- (6) Click "Apply" to save the parameters (Please refer to 4.6.5 NAT for details).

7.1.2 NAT Access

After finishing the NAT settings, you can enter the NAT Server on the PC (Input *http://www.autonat.com* to go to the IE client). If you are the first time to access the NAT, the network will download the ActiveX automatically.

Note If you c	cannot download	and install ActiveX,	nlags votor to	FAOO8
11016. 11 you c		unu msiun ActiveA,	pieuse rejer io	IAV V0.

After installing ActiveX successfully, it will pop up the login box:

Serial No	0018AE223355
User Name	admin
Password	
Language	English •
	LOGIN

Serial No: The MAC address of the DVR(Go to Menu \rightarrow Information \rightarrow Network to check the MAC address of the DVR).

User Name: the login username of DVR, the default username is *admin*. Password: the login password of DVR, the default password is *123456*.

7.2 IE Remote Surveillance via LAN & WAN

In order to view the DVR from a network it may be connected to a LAN/WAN or internet. The network setup should be done accordingly. Please refer to 4.6 Network Setup. This DVR supports IE browser, on Windows XP and Vista platform.

7.2.1 Via LAN

- ① Enter into the DVR's Main Menu→Setup→Network interface to input IP address, Subnet Mask, etc. If using DHCP, please enable DHCP in both the DVR and the router.
- 2 Enter Record Setup to set network video parameters like resolution, frame rate etc.
- ③ Open IE on a computer on the same network. Input the IP address of the DVR in IE address bar and press enter.
- (4) IE will download ActiveX component automatically. Enter the username and password in the subsequent window

Notice: If HTTP port is not 80, other number instead, need add the port number after *IP address*. For example, set HTTP port as 82, need input *IP address like* 192.168.0.25:82.

User name and password here are the same with that used on the DVR. The default username and password is admin and 123456.

7.2.2 Via WAN

There are two ways for the DVR to connect to internet.

1. Connect the DVR to internet through router or virtual server

- ① Enter into the DVR's Main Menu→Setup→Network interface to input IP address, Subnet Mask, etc. If using DHCP, please enable DHCP in both the DVR and router.
- ② Forward IP address and port number in Virtual Server setup of the router or virtual server. Configure the firewall to allow accessing the DVR (If the user has enabled the UPnP function in both the DVR and router, he can skip this step).
- ③ If users want to utilize dynamic domain name, please apply for a domain name in a DNS server supported by the DVR or router. Then add to the DVR or router.
- ④ Open IE browser, input IP address, or dynamic domain name and enter. If HTTP port is not 80, add the port number after IP address or domain name.
- (5) IE will download ActiveX automatically. Then a window pops up and asks for user name and password. Input name and password correctly, and enter to view.

Note: If you cannot download and install ActiveX, please refer to FAQ Q8.

2. Connect the DVR to internet directly

(1) Enter into the DVR's Main Menu \rightarrow Setup \rightarrow Network interface to enable PPPoE and then

input user name and password received from your ISP. Next, click 'Apply'. The DVR will connect to the server and would give a confirmation message.

- ② When accessing the remote interface of DVR, user can input WAN IP to access directly (user can enter into Main menu→Information→Network interface to check IP address). The browser will download Active X control.
- (3) The following setting steps are as the same as (4) and (5) in Point 1.

7.3 Remote Surveillance through Apple PC

Note: Because the current plug-in version of client end just only supports 32-bit mode, so the safari browser shall start 32-bit mode. If the browser is the earlier MACOS version, the default setting is 32-bit mode and the setting can be skipped.

The setting steps are as follows:

- (1) Right click safari icon and select "Show in Finder".
- ② Select Applications→Right click "Safari. App"→Select "Get Info".



③ Select "Open in 32- bit mode".

▼ Genera	t:
Kind	Application (Intel)
Size	57.3 MB on disk (48,525,663
	bytes)
	: /Applications
	: 2009-8-20 Thu. 1:22 a. m
Modified	: 2010-10-19 Tue.a. n
Manufactor	11:56
version	: 5.0.2, Copyright © 2003-2010 Apple Inc.
1 shall	
Lapes	
۲	Open in 32-bit mode
E	Open using Rosetta
C) Locked
► More In	ifo:
▼ Name 8	Extension:
	pp
Safari.a	

7.3.1 Via LAN

- After starting Apple computer, click Apple icon. The following window will pop up. Please select "System Preferences" → "Internet &Wireless" → "Network".
- ② Go into Network interface and then click "Ethernet Connected" to check the internet

connection of Apple PC.

		Status:	Connected	
About This Mac			Ethernet is currently active and has the IP address XXX. XXX. XXX. XXX	
Software Update Mac OS X Software		Configure IPv4:	Manually	;
		IP Address:	XXX. XXX. XXX. XXX	
System Preferences Dock	•••	Subnet Mask:	XXX. XXX. XXX. XXX	
Recent Items		Router:	XXX. XXX. XXX. XXX	
Force Quit Finder	C#45	DNS Server:	XXX. XXX. XXX. XXX	
Sleep Restart Shut Down	״₩▲	Search Domains:	(Advanced.	
Log Out coodoo	企業Q	her changes.	Assist me	Apply

- ③ After acquiring the IP address, Subnet Mask and so on, please Go to the DVR's Main Menu→Setup→Network interface to manually input IP address, Subnet Mask and Gateway according to the configuration of PC. The network segment should be the same as the PC. If using DHCP, please enable DHCP in the DVR and router.
- ④ After the above information is completed, you can enter LAN IP and http port in the Safari browser. For example: input http://192.168.1.100:81(here 192.168.1.100 is LAN IP of DVR, 81 is the http port of DVR), and click " ^c "button. Then the browser will download Active X control as shown below:

00	Web Clien	L		
< > 🕑 🗰 + 📰 h	ttp://192.168.1.100:81	¢	Q. Google) H O
🛱 🎹 Apple untitled f	older *			
	please click icon to load and ins WebkitPlugin:	tall		
	please restart browser to ensure V effect after install!	WebkitPlugin can tak	e	

(5) Click icon and then select the Active X control, the welcome interface will be shown. Click "Continue" → "Install" button, the following window will pop up :

800	Install WebClientPlugin-64	Downloads		Type your password to allow Installer to make
0	Welcome to the WebClientPlugin-64 Installer	n-64.pkg 8 Downloads		changes.
Introduction Destination Sele Installation ypp Installation	You will be guided through the steps necessary to install this software.			Name: coodoo Password:
• Summary			▶ Details	
Der.	Go Back Continue		?	Cancel

Input the name and password of Apple PC and then click "OK" to install this Active X control.

(6) After finishing installing the Active X control, please quit from the Safari browser. Right click Safari icon on the desktop and then select "Quit" button to quit the browser. Then restart Safari browser. Input the IP address and http port to go to the login interface of DVR.

7.3.2 Via WAN

There are also two ways for DVR to connect to Internet.

1. Connect the DVR to internet through router or virtual server

- ① The network setups are the same as step one to step four of point 1 on WAN of IE remote surveillance.
- (2) Enter WAN IP and http port in the Safari browser to install the Active control. The concrete steps are the same as step 5 and 6 of Chapter 7.2.1.

2. Connect the DVR to internet directly.

- ① The network setups are the same as step one of point 2 on WAN of IE remote surveillance.
- (2) Enter WAN IP and http port in the Safari browser to install the Active control. The concrete steps are the same as step 5 and 6 of Chapter 7.2.1.

7.4 The Remote Live Preview

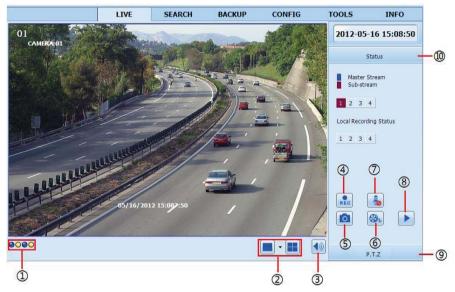


Fig 7-1 Remote Live Preview Interface

1	Channel indicator	2	Screen display mode
3	Volume	4	Start recording
5	Snapping picture	6	Start IE record
7	Bidirectional talk	8	Playback
9	PTZ control	10	Master/sub stream status

Note: Click button to start recording. The record file will be saved in user's PC.

Screen display mode:

Click the 🔽 icon beside the screen display mode to select channels.

Snap pictures

Click "Snap" \bigcirc icon to automatically capture pictures and save those pictures in the computer. You can set up the save path for those picture in the Remote Preview interface \rightarrow Configuration \rightarrow Local configuration.

PTZ control

Please connect speed dome to the device via RS485 firstly, make sure the protocol of the speed dome is supported by the device and set the relative parameters manually. User can control the dome up, down, right, left or stop rotating on Control Center, adjust rotation speed, Iris and zoom, focus on the dome, and set the presets, etc.

Buttons definition:

Buttons	Description
	■ to rotate the dome upwards. to rotate the dome diagonally up-right to rotate the dome diagonally up-right to rotate the dome diagonally down-right to rotate the dome diagonally down-left to rotate the dome towards left. to rotate the dome towards right to stop rotating the dome.
	Drag the scroll bar to adjust rotating speed of the dome.
- • +	'Iris' button. Click $+$ button near 'Iris' button to increase light of the dome. Click $-$ button near 'Iris' button to decrease light of the dome.
- • +	'Zoom' button. Click $+$ button near 'Zoom' button to zoom in the locale picture of this camera. Click $-$ button near 'Zoom' button to zoom out the locale picture of this camera.
- 📀 +	'Focus' button. Click + button near 'Focus' button to have long focus. Click button near 'Focus' button to have short focus.
7.	Go to the Preset.
	Select and do auto cruise.
	Track
\mathbf{c}	Auto scan
D	Wiper button
	Light button

Click the right mouse on the live interface. This will take you to a pull-down menu.

	Master Stream
۲	Sub-stream
	All to Master Stream
	All to Sub-stream
	Enable Audio
	Full Screen
	zoom in 🔶

Fig 7-2 Right Key Sub Menu

Stream: This DVR supports master stream and sub stream. Master stream has higher frame rate, max 25FPS (PAL)/30 FPS (NTSC) for every channel, but it needs higher network bandwidth simultaneously. Sub stream has low frame rate, max 6FPS (PAL)/7FPS(NTSC) for every channel, it requires low network bandwidth. Therefore, you can select the stream according to your bandwidth.

All to master/sub stream: Set all channel to master stream or sub stream.

Enable audio: Enable or disenable audio.

Full screen: The live preview picture will display with full screen and the tool bar will be hid. Double click left mouse or click right mouse to return.

Zoom in: Single channel large screen electronic amplification. Click the channel which needs to be zoomed. Right click to select zoom in button to zoom in the image. Double click or right click to exit.

7.5 Remote Playback & Backup

7.5.1 Remote Playback

Click button to go into record playback interface. Refer to Fig 7-3.

Select the record date and channels and double-click the file name in the record file list box. Then you can play that file and preview the picture.

AMI	2 1	and the	- I - I	Record Date	2009-1	2-24 💌		
		No.	A A A A A A A A A A A A A A A A A A A	© 00-00-00-00-00-00 © CAM1 © CAM2 © CAM3 © CAM4	0-00-00			
AN - AN	A THE A	T	Astron	File Name	X	chan	Time	Leng
time a state	N See	Caller .	100	20091224001802		CAM1	00:18:02	
x sal	N-A-CT	No.	munt	20091224063015 20091224062529		CAM3 CAM4	06:30:15	2.3
				20091224062750		CAM2	06:27:50	2. 5
09/42 09 1	51 51 48		and the second second	K () () () () () () () () () (nde		134.7004	>
•	H H	ни	± 0				4)
0001224062529_09.a	vi 06:25:29							

Fig 7-3 Play Record File Interface

This DVR supports remote time search, event search and file management.

By Time Search:

- (1) Go to Search \rightarrow Time Search. Refer to Fig 7-4.
- 2 The highlight date in the area 2 indicates recorded data. Select the date in area 2 and record channels in area 3.
- ③ Click "Search" button. The record data will be displayed in the data information list box.
- ④ Set the data playing time and display mode in the area ① as required.
- (5) Click "Play" button to playback. 8 CH DVR only supports single channel display.

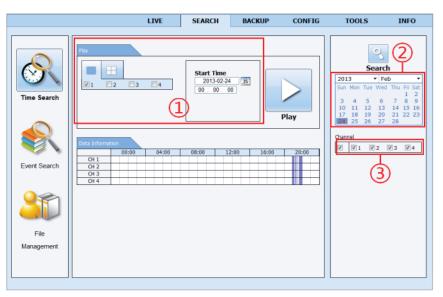


Fig 7-4 Time Search Interface

6 Click the relevant buttons in the interface for operation, like FF, pause, change channel mode, etc. Refer to Fig 7-5.

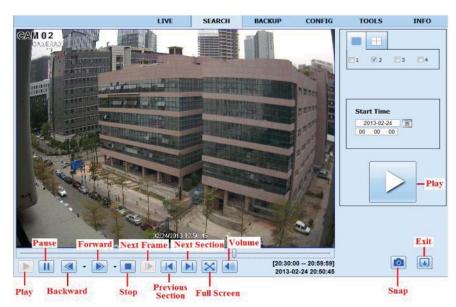


Fig 7-5 Time Search Playback

By Event Search:

- (1) Go to Search \rightarrow Event Search interface. Refer to Fig 7-6.
- ② Click the highlight date and select record channels.
- (3) Checkmark the event type: motion.
- (d) Click "Search" button.
- (5) Double-click certain item to play.

Event list				्
Channel	Start Time	End Time	Туре	Search
2	2012-02-28 13:37:25	2012-02-28 13:38:50	Motion	
2	2012-02-28 13:34:57	2012-02-28 13:36:52	Motion	2012 💌 Feb 💌
2	2012-02-28 13:33:44	2012-02-28 13:34:56	Motion	Sun Mon Tue Wed Thu Fri Sat 1 2 3 4
2	2012-02-28 13:32:21	2012-02-28 13:33:44	Motion	
2	2012-02-28 13:31:10	2012-02-28 13:32:20	Motion	12 13 14 15 16 17 18
2	2012-02-28 13:30:14	2012-02-28 13:31:09	Motion	19 20 21 22 23 24 25
2	2012-02-28 13:28:45	2012-02-28 13:30:13	Motion	26 27 28 29
2	2012-02-28 13:26:46	2012-02-28 13:28:21	Motion	Channel
2	2012-02-28 13:24:26	2012-02-28 13:25:44	Motion	
2	2012-02-28 13:13:24	2012-02-28 13:14:37	Motion	
2	2012-02-28 12:54:14	2012-02-28 12:55:38	Motion	
2	2012-02-28 12:47:21	2012-02-28 12:49:05	Motion	Motion
2	2012-02-28 12:46:21	2012-02-28 12:47:21	Motion	
2	2012-02-28 12:45:26	2012-02-28 12:46:21	Motion	
2	2012-02-28 12:43:49	2012-02-28 12:45:26	Motion	
1/14				

Fig 7-6 Event Search Interface

File Management

(1) Go to Search \rightarrow File Management interface. Refer to Fig 7-7.

File List						0	
Check	Channel	Start Time	End Time	Status		Search	
	2	2012-02-28 13:42:18	2012-02-28 13:42:25	Writing			
	2	2012-02-28 12:47:21	2012-02-28 13:42:18		2012	Y Feb	*
	2	2012-02-28 12:18:00	2012-02-28 12:47:21		Sun Mon		ri Sat
	2	2012-02-28 11:49:53	2012-02-28 12:18:00		5 6		3 4
	2	2012-02-28 11:22:41	2012-02-28 11:49:53		12 13	14 15 16 1	7 18
	2	2012-02-28 10:56:53	2012-02-28 11:22:41		19 20		24 25
	2	2012-02-28 10:30:04	2012-02-28 10:56:53		26 27	28 29	
	2	2012-02-28 10:02:59	2012-02-28 10:30:04		Channel		
	2	2012-02-28 09:34:12	2012-02-28 10:02:59				7.
	2	2012-02-28 09:09:43	2012-02-28 09:34:12			⊻ 2 ⊻ 3	✓ 4
	3	2012-02-28 13:34:49	2012-02-28 13:42:25	Writing			
	3	2012-02-28 13:23:25	2012-02-28 13:34:49				
	3	2012-02-28 13:11:57	2012-02-28 13:23:25				
All	Inver	se 1/23					
			Lock Unlock	Delete			

Fig 7-7 File Management Interface

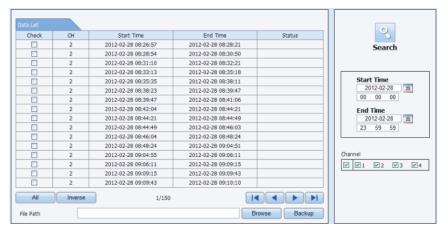
- ② Select highlighted date and channels.
- ③ Click "Search" button to search the recorded files.

Lock: Select certain file item in the file list box and then click "Lock" button to lock this file that ca not be deleted or overlaid.

Unlock: Select a locked file and then click "Unlock" button to unlock this file.

Delete: Select an unlock file and then click "Delete" button to delete this file from file list.

7.5.2 Remote Backup



Click Backup button to go to backup interface. Please refer to Fig 7-8.

Fig 7-8 Remote Backup Interface

- Select channels, set the start and end time and then click "Search" button to display the file information in the file list box.
- ② Select backup files and click "Browse" button to set the save path. Then click "Backup" button to start backup. The backup files will be saved on user's PC.

7.6 Remote System Configuration

You can do remote setup of the device which includes functions like basic configuration, live configuration, record configuration, schedule configuration, alarm configuration, network configuration, PTZ configuration and user configuration. You should select an option from the menu list on the left and then set up the relative parameters. Only one user can do configuration setup at a given point of time. Click Config tab to go to the below interface The sub menu list and the options in every menu are similar to that of the DVR. Please refer to Chapter 4 Main Menu Setup Guide for more details.

main	menu — L	.IVE	SEARCH	BACKU	IP	CONFIG	TOOLS	INFO
Local config							Apply	Default
. and T	Local Config							
Basic	Local View							
	Snap Path	E:	١					Browse
Live	Snap Amount	4						-
Record	Remote Playback							
Kecold	Snap Path	C:	\Users\kevin	n\Document <i>s</i>				Browse
25 Schedule	Snap Amount	10)					-
	Local Record							
Alarm	Save Path	F:	\15					Browse
Network	Record Channel							
(0) or a	V V1	V 2	V 3	₹4				
P.T.Z	Audio Channel							
Users		1		2		iii 3	24	
sub menu							Apply	Default

Fig 7-9 Remote Menu Setup

7.7 Tools

Click on the tool's tab to access the Disk Management tool. The user can view the status of the hard drive(s), view/change the read write properties and format the hard drive(s).

7.8 Remote Management

The Info interface provides a web based interface to access the general information pertaining to the DVR's settings. The interface includes five submenus: System, Event, Log, Network and Online users.

Note: There may be subtle differences with respect to functions of remote surveillance between through IE and through Apple PC. Here we only take IE remote access for example.

Appendix A FAQ

Q1. Why the DVR doesn't turn on after connecting to the power?

- a. The power adapter could have gone bad. Please change a new power adapter.
- b. The power from the adapter may be not enough for operating the DVR. Please use the power adaptor supplied along with the DVR.
- c. It could be a hardware problem.

Q2. The DVR LED turns on but there is no output, why?

- a. The power from the adapter may be not enough for operating the DVR. Please use the power adaptor supplied along with the DVR.
- b. It could be a wiring issue. Please check the connection for the same.
- c. Check the monitor settings.

Q3. Why are no images displayed on few or all channels of the DVR?

- a. It could be a wiring issue. Please check the cable and the ports of the cameras and DVR.
- b. The problem can also be related to cameras. Please check the same.
- c. Please make sure that the channels are not programmed as hidden channels and check the status from admin login.

Q4. The HDD cannot be found.

- a. The power from the adapter may be not enough for operating the DVR. Please use the power adaptor supplied along with the DVR.
- b. It could be wiring issue. Please check the power and data cables of the HDD.
- c. The HDD could have gone bad. Change a new one.

Q5. The DVR cannot record.

- a. Make sure the HDD was formatted prior to use.
- b. Maybe the user hasn't enabled the record function or has done incorrect setup. Please refer to Chapter 5.
- c. Maybe HDD is full and thus the DVR is not able to record. Check HDD information from Disk Management and if required, please enable the recycle function.
- d. The HDD could have gone bad. Please change another one.

Q6. Mouse doesn't work.

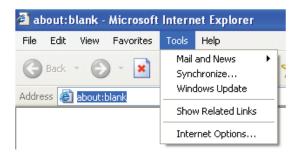
a. The mouse should be connected to the USB port at the rear side.

b. After connecting the mouse, allow the DVR to detect the mouse for seconds. If not detected, try restarting the DVR.

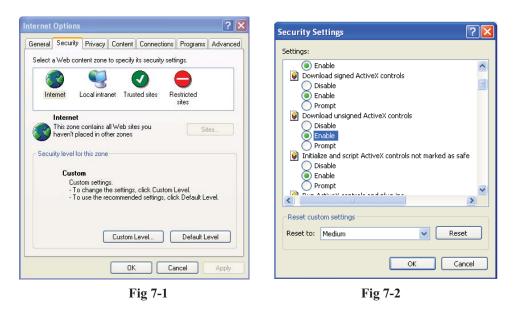
c. The mouse may be incompatible. Please change a mouse.

Q7. ActiveX control cannot be downloaded.

- a. IE browser blocks ActiveX. Please do setup as per the steps mentioned below.
- (1) Open IE browser. Click Tools \rightarrow Internet Options.



- ② Select Security \rightarrow Custom Level. Refer to Fig 7-1.
- (3) Enable all the sub options under "ActiveX controls and plug-ins". Refer to Fig 7-2.
- (4) Then click Ok to finish setup.
- b. Other plug-ins or anti-virus blocks ActiveX. Please uninstall or do the required settings.



Q8: DVR displays "please wait..." all the time.

- a. HDD power cable and data cable may not be well connected. Please check the connections for HDD.
- b. It is also possible that the DVR was forced to stop because HDD has a bad sector and it may have caused the system to halt. Check with a good known HDD or try formatting the existing HDD.

Q9: How to input password and digital numbers?

Click the password or the input box to pop up a small keyboard. Please select characters to be input (the initial password is 123456), or you can use the digital keys on the front panel, or the digital keys on the remote controller.

Q10: A hard disk is being identified as a new device however it was being used with another DVR of same model. Should it be formatted prior use?

It is possible to migrate an HDD from one DVR to another provided that the DVRs are of the same model and that the HDD being migrated would be used as the sole disk in the new DVR. However in cases where the new DVR already contains a HDD, the migrated disk being installed would have to be formatted. In general migrating disks from one DVR to another is not recommended.

PC Module	Parameters
CPU	Intel Celeron 2.4G
Motherboard	Intel 845
HDD	80G
RAM	512M
VGA	NVIDIA GeForce MX440/FX5200 ATIRADEON 7500/X300
OS	Windows 2000(SP4 above) /Windows XP(SP2 above) /VISTA
DirectX	9.0

Q11: What is the minimum configuration required for remote monitoring?

Q12: How to handle the situation that the codec Control is blocked when downloading in the VISTA or Win7 system?

This problem can be fixed in two ways:

a. Enter Control Panel→User Account and Family Safety → User Account Control (refer to the following figure) and click Turn User Account on or off. Cancel Use User Account Control (UAC) to help protect your computer.

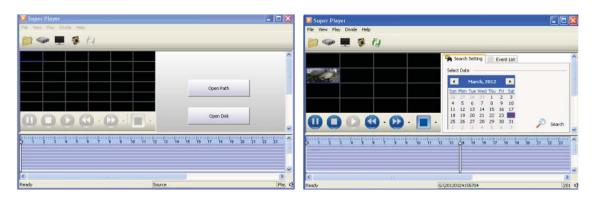


b. Right click IE browser (refer to the following figure) and select Run as administrator to run browser.

	Open Open file location	
۲	Run as administrator	
	Restore previous versions	
	Send To	+
	Cut	
	Сору	
	Create Shortcut	
	Delete	
	Rename	
	Properties	

Q13. How to play the backup file?

Insert your USB device where the backup files are saved in the USB port of PC. If your files are saved in DVR format, you must have already downloaded the backup player box before doing backup. Then double click to open your USB disk to find your backup files and backup player. Double click icon to install backup player. After you install it, open this player and click "Open Path" button to open your backup file. Next, click Play button to play the backup file. Double click the image and then right click to enable audio. If you save your backup files in AVI format, you can directly open your file by using the media player which supports this format.



Appendix B Calculate Recording Capacity

Users can calculate the size of hard disk according to the saving time and DVR recording settings. The DVR uses fixed video bit rate. The below are the details at different settings.

Resolut ion	Frame Rate Totally(FPS)	Video Quality	Bit Rate (kbps)	Used Space(MB/h)			
		Highest	6144	2700			
		Higher	5420	2250			
53 0D	25(PAL)/	25(PAL)/	25(PAL)/	25(PAL)/	Medium	4096	1800
720P	30(NTSC)	Low	3072	1350			
		Lower	2048	900			
		Lowest	1024	450			

The calculation format is: Total Recording capacity =Used space per hour (MB/h) (coverage rate of hard disk) × recording time (hour) × channel numbers

For instance, one customer uses NTSC cameras, set resolution to 720P, video quality to Lowest, frame rate to 30 fps for enabling total 4 channels. He wants the unit to record continuously in a month. Below is the calculation:

Total Recoding capacity =450 (mb/h) X 24(hours/day) X30(days) X4(channels)= 1296000 (MB)≈1266(GB)

Therefore, you need to install one 2 TB SATA HDDs for recording in one month.

Appendix C Compatible Devices

1. Compatible USB drive after test.

Brand	Capacity
SSK	512MB, 1G, 2GB
Netac	4GB
Kingston	2GB
Aigo	2GB
Smatter vider	1GB
SanDisk	4GB

2. Compatible HDD list

Brand	Capacity
Seagate Barracuda	80G/160G/250G/320G /1.5T/2TB/3TB
Seagate SV35.3	1T
Seagate Pipeline HD.2	500G
Maxtor Diamondmax	160G
HITACHI Deskstar	80G/160G
WD WD1600JS	160G
Samsung HD161HJ	160G

Appendix D 4 CH Specifications

Compression format	H.264 Main Profile
Video output	VGA \times 1, HDM I \times 1
Video Input	$BNC \times 4$
HDMI/VGA Resolution	1080 × 1920/1280 ×1024/ 800 × 600
Record Resolution	720P (1280 × 720); 1080P (1920 × 1080)
Display Frame Rate	100FPS (PAL), 120FPS (NTSC)
Record Frame Rate	720P: 100FPS (PAL), 120FPS (NTSC) 1080P: 50FPS(PAL), 60FPS(NTSC)
Audio Input	RCA × 1
Audio output	$RCA \times 1$
Record Mode	Manual / Timer / Motion detection
Simplex/Duplex/Triplex	Pentaplex
Network Interface	RJ45 (LAN, INTERNET)
PTZ control	YES
Communication interface	RS485, USB2.0 \times 2 (one for backup, another for USB mouse)
Disk info	SATA \times 1
Remote controller	YES
Power consumption	< 9W(without HDD)
Power Supply	DC12V
Temperature	0°C-50°C
Humidity	10%-90%

Appendix E 8 CH Specifications

Compression format	H.264 Main Profile
Video output	$VGA \times 1$, HDM I× 1
Video Input	BNC × 8
HDMI/VGA Resolution	1080 × 1920/1280 ×1 024/ 800 × 600
Record Resolution	720P (1280 × 720) ; 1080P (1920 × 1080)
Display Frame Rate	200FPS (PAL), 240FPS (NTSC)
Record Frame Rate	720P: 200FPS (PAL), 240FPS (NTSC) 1080P: 100FPS (PAL), 120FPS (NTSC)
Audio Input	$RCA \times 1$
Audio output	$RCA \times 1$
Record Mode	Manual / Timer / Motion detection
Simplex/Duplex/Triplex	Pentaplex
Network Interface	RJ45 (LAN, INTERNET)
PTZ control	YES
Communication interface	RS485, USB2.0 \times 2 (one for backup, another for USB mouse)
Disk info	SATA \times 1
Remote controller	YES
Power consumption	< 14W(without HDD)
Power Supply	DC12V
Temperature	0°℃-50°℃
Humidity	10%-90%

Appendix F 16 CH Specifications

Compression format	H.264 Main Profile
Video output	VGA \times 1, HDM I \times 1
Video Input	$BNC \times 16$
HDMI/VGA Resolution	$1080 \times 1920/1280 \times 1\ 024/\ 800 \times 600$
Record Resolution	720P (1280 × 720) ; 1080P (1920 × 1080)
Display Frame Rate	400FPS (PAL), 480FPS (NTSC)
Record Frame Rate	720P: 400FPS (PAL), 480FPS (NTSC) 1080P: 200FPS (PAL), 240FPS (NTSC)
Audio Input	$RCA \times 1$
Audio output	RCA × 1
Record Mode	Manual / Timer / Motion detection
Simplex/Duplex/Triplex	Pentaplex
Network Interface	RJ45 (LAN, INTERNET)
PTZ control	YES
Communication interface	RS485, USB2.0 \times 2 (one for backup, another for USB mouse)
Disk info	SATA \times 1
Remote controller	YES
Power consumption	< 20W(without HDD)
Power Supply	DC12V
Temperature	0°℃-50°℃
Humidity	10%-90%

A1