For H.264 32-channel network 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 the same. Kindly remove the cables from the power source if the device is not to be used for a long period of time.

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

- Do not install this device near water. Clean only with a dry cloth.
- Do not block any ventilation openings and ensure proper ventilation around the machine.

• Do not power off the NVR at normal recording condition. The correct operation to shut down the NVR is to first stop recording and then use "shut-down" button from the menu, and finally switch off the main power.

• This machine is for indoor use only. Do not expose the machine in rain or moist environment. In case any solid or liquid get inside the machine's case, please turn off the device immediately and get it checked by a qualified technician.

• 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 32-channel network video recorders.

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# **1** Introduction

# **1.1 NVR Introduction**

This series of devices are standard 32CH real-time 3MP/1080P/960P/720P high resolution PoE NVR, which adopt the most advanced SOC technique to ensure high definition recording in each channel and realize outstanding robustness of the system. The series of product integrates 16 PoE network ports, supporting 16 CH IPC direct connections to NVR, simultaneous 4 CH playbacks, and HDMI 1080P high resolution display. All of these features make the device meet different security requirements of home, financial, commerce, enterprise, transportation and government, etc.

# 1.2 Main Features

# COMPRESSION FORMAT

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

# LIVE SURVEILLANCE

- Support HDMI/VGA output
- Supports 3MP/1080P/960P/720P/D1 @30 fps IP video input
- Support channel security by hiding live display
- Display the local record state and basic information
- Support USB to make full control

# RECORD MEDIA

• Support four/eight SATA HDDs to record for a longer time without any limitation

# BACKUP

- Support USB 2.0 devices to backup
- Support built-in SATA DVD writer to backup
- Support saving recorded files with AVI standard format to a remote computer through internet

# **RECORD & PLAYBACK**

- Record modes: Manual, Schedule, Motion detection and Sensor alarm recording
- Support recycle after HDD full
- Support 3MP/1080P/960P/720P/D1 recording
- Resolution, frame rate and picture quality are adjustable
- Three record search mode: time search, event search and image search
- Support 4 screen playback simultaneously
- Support deleting and locking the recorded files one by one
- Support remote playback in Network Client through LAN or internet

# ALARM

- Support 16 CH alarm input and 4 generic output
- Support schedule for motion detection and sensor alarm

- Support pre-recording and post recording
- Support linked channels recording once motion or alarm triggered on certain channel

## SECURITY

- Customize user right: log search, system setup, two-way audio, file management, disk management, remote login, live view, manual record, and playback
- Support 1 administrator and 63 users
- Support event log recording and checking

## NETWORK

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

# 2 Hardware Installation

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

# 2.1 Install Hard Drive & DVD Writer

# 2.1.1 Install Hard Drive

*Notice:* 1. This series of product supports eight SATA hard drives (Some models may support four SATA HDDs). 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 "Appendix B Calculate Recording Capacity".

① Open the cover and loosen the screws to take out the upper mounting bar, and then install the HDD.



② Connect the power and data cables and install the other three HDDs according to above-mentioned method and install back the upper mounting bar.



③ Install the upper four HDDs and install back the cover.



Note: There may be only one mounting bar for some models. Thus, only four HDDs can be installed under the mounting bar.

# 2.1.2 Install DVD Writer

Notice: 1. The writers must be the compatible devices we recommend. Please refer to "Appendix C Compatible Devices". 2. This device is only for backup.

① Loosen the screws and take out the brace with a triangular mark (if there is no such brace, please skip this step). And then install the DVD Writer.







② Connect the power and data cables and then install the HDDs as shown below.



③ Install back the mounting bar and fix the other two HDDs under it as shown below.



For some models, only two SATA HDDs can be installed after installing the DVD writer.

# 2.2 Front Panel Descriptions

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

NVR User Manual

Туре	Name	Function	
	Power	The power indicator turns blue when NVR is powered up	
	HDD	The light turns blue when HDD is writing and reading	
Indicator	Net	The light turns blue when it is able to access the network	
Indicator	Backup	The light turns blue when baking up files and data	
	Play	The light turns blue when playing video	
	REC	The light turns blue when recording	
	AUDIO /+	1. Adjust audio 2. Increase the value in setup	
	P.T.Z / -	1. Enter PTZ mode 2. Decrease the value in setup	
	MENU	Enter Menu in live	
	INFO	Check the information of the device	
	BACKUP	Enter backup mode in live	
Function	SEARCH	Enter search mode in live	
Buttons	Exit	Exit the current interface	
	•	Manually record	
	►I	Play/Pause	
	*	Rewind key	
	*	Fast forward	
	1-9	Input digital number and select camera	
Digital Key	0/	Input number 0, the number above 10	
<b>D</b> : 1	Direction Key	Change direction	
Direction Key	Multi-Screen Switch	Change the screen mode	
,	Enter	Confirm selection	
USB	USB	To connect external USB device like USB mouse or USB flash	

# 2.3 Rear Panel Instructions

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

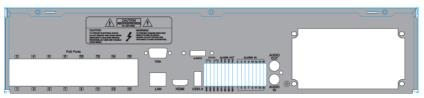


Fig 2-1 Rear Panel

If it still doesn't work, please try using a good known remote, or contact your dealer.

## Operation processes with remote controller to control multi-NVR

The default device ID of the NVR is 0. It's not necessary to reset the device ID when a remote is to be used to control a single NVR. However when controlling multiple NVRs with multiple remote controllers, you would need to configure the device ID, please refer to below steps: Activate remote controller to control the NVR: Turn the IR sensor of the remote controller

# 2.4 Remote Controller

Alarm Out Connection:

It uses two AAA size batteries.

• Open the battery cover of the Remote Controller.

connect the power supply as per the following figures.

• Place batteries. Please take care of the polarity (+ and -).

Pull out the green terminal blocks and loosen the screws in the alarm

out port. Then insert the wires of the alarm output devices into the

port of NO and COM separately. Finally, tighten the screws. Provided

that the external alarm output devices need power supply, you can

• Replace the battery cover.

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

- 2. Check the remaining charge in the batteries.
- 3. Check IR controller sensor for any masking.
- 4. Check the ID of the remote with respect to the NVR.



Name	Description
Audio in For two-way talk; connect to active pickups	
Audio out Audio output; connect to the sound box	
P/Z	Connect to speed dome. Y is TX+; Z is TX- (unavailable)
K/B	Connect to keyboard. A is TX+; B is TX-
GND	Grounding
Alarm Out	Relay Output. Connect to external alarm
Alarm In	Alarm Inputs for connecting sensors
E-SATA Connect to external SATA hard drive(s) for backup	
HDMI port Connect to high-definition display device	
VGA port	VGA output, connect to monitor
LAN	Network port
USB port	Connect to external USB devices (unavailable for upgrade)
PoE Ports PoE network ports; connect to 16CH IP cameras with PoE fun	



<sup>1.</sup> Check batteries polarity.

towards the IR receiver on the front panel, press the number key 8 twice on the remote, input device ID of the NVR to be controlled (Range from: 0-65535; the default device ID is 0) and press ENTER to confirm.

You can check the device ID of a NVR from System Setup $\rightarrow$ Basic $\rightarrow$ Device ID. You can also set multiple NVRs with the same device ID however this can cause interference if the NVRs are kept close to each other.

The interface of remote controller is shown in Fig 2-2 Remote Controller.

Button	Function
ل Power	Switch off-to stop NVR. Use it before turning off the
Button	power
Record Button	To record manually
-/ /0-9 Digital Button	Input number or choose camera
Fn1 Button	Unavailable temporarily
Multi Button	To choose multi screen display mode
Next Button	To switch the live image
SEQ	To go to auto dwell mode
Audio	To enable audio output in live mode
Switch	To switch the output between BNC and VGA
Direction button	To move cursor in setup or pan/title PTZ
Enter Button	To confirm the choice or setup
Menu Button	To go to menu
Exit Button	To exit the current interface
Focus/IRIS/Zoo m/PTZ	To control PTZ camera. Move camera/zoom/IRIS/Focus
Preset Button	To go to preset setting in PTZ mode
Cruise Button	To go to cruise setting in PTZ mode
Track Button	To go to track setting in PTZ mode
Wiper Button	To enable wiper function in PTZ mode
Light Button	To enable light function in PTZ mode
Clear Button	To return to the previous interface
Fn2 Button	Unavailable temporarily
Info Button	Get information about NVR like firmware version, HDD information
<u>↓</u> ↓ ↓ ↓ ↓ ↓ ↓	To control playback. Play/Pause/Stop/Previous Section/Next Section/Rewind/Fast Forward
Snap Button	To take snapshots manually
Search Button	To go to search mode
Cut Button	To set the start/end time for backup in playback mode
Backup Button	To go to backup mode
Zoom Button	To zoom in the images
PIP Button	To go to picture in picture setting mode

Fig 2-2 Remote Controller

*Note:* You shall press P.T.Z button to enter PTZ setting mode, choose a channel and press P.T.Z button again to hide the P.T.Z control panel. Then you can press preset, cruise, track, wiper or light button to enable the relevant function.

# 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 known 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 Fig 2-3. 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 motion detection area setup for example: Click customized, hold down the left button and drag to set motion detection area.



Fig 2-3 Digital Numbers and Letters Input Window

## In Playback:

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 Startup and Shutdown

Please make sure all the connections are done properly before you power on the unit. Proper startup and shutdown are crucial to expanding the life of your NVR.

# 3.1.1 Startup

- $\bigcirc$  Connect with the power.
- 2 The device will boot and the power LED would turn blue.
- ③ A WIZARD window will pop up and show some information about time zone, time setup, network configuration, record configuration and disk management. You can set here and refer to the concrete setup steps from the corresponding chapters. If you don't want to set up Wizard, please click Exit button to exit.

Note: The default output is HDMI output. Hold and press ESC/Exit key to switch the resolution of the VGA and HDMI output.

# 3.1.2 Shutdown

You can shut down the device by using IR remote controller or mouse.

- 1 Go to Main Menu and select "Shut Down" icon. This will take you to a shutdown window.
- 2 Click OK. Then the unit will power off after a while.
- ③ Disconnect the power.

# 3.2 Login

You can login or log off the NVR system. Once logged off you cannot do any other operation except changing the multi-screen display.



Fig 3-1 Login

Notice: The default user name is admin and the default password is 123456. For complete operational steps for changing password, adding or deleting user please refer to section 5.7 User management Configuration.

# 3.3 Live preview



Fig 3-2 Live Preview Interface

Symbol	Meaning
Green	Manual record
Yellow	Motion detection record
Red	Sensor Alarm record
Blue	Schedule record

# 3.4 Live playback

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

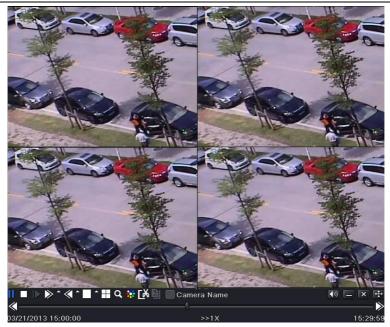


Fig 3-3 Live Playback

# 4 Add IP Cameras

This chapter mainly introduces how to connect multiple IP cameras through NVR. Once you finish adding IP cameras, you can see the live images through the monitor of the NVR. You may connect the previous 16 CH directly to the device through PoE network ports and then add the IP cameras for the remaining channels into the NVR via WAN/LAN. Here we will introduce how to add cameras through WAN/LAN.

## To add IP cameras via LAN:

 Please go to Main Menu→IP Camera tab. Refer to Fig 4-1. Click "Search" button to search the devices in the same network. (The IPC which supports the Onvif protocol may be added manually.)

		Manufacturer	Product Model	
1	192.168.1.2			Disconnecte
	192.168.1.3			Disconnecte
3	192.168.1.4			Disconnecte
4	192.168.1.5			Disconnecte
5	192.168.1.6			Disconnecte
6	192.168.1.7			Disconnecte
	192.168.1.8			Disconnecte
8	192.168.1.9			Disconnecte
1/1				

Fig 4-1 Device Management

<sup>(2)</sup> Go to the search tab. Click "Refresh" to refresh the searched devices. If the IPC is not in the same local network, you can select the device and click "Setup" to modify the IP address of the searched device. Refer to Fig 4-3.

ADD DEVICE				
Ma	nufacturer	Product Mod	IP Address	Port
🗌 xx	x		192.168.11.201	9008
🗆 xx	х		192.168.13.85	9008
🗆 xx	х		192.168.63.95	9008
🔲 xx	х		192.168.53.82	9008
🗆 xx	х		192.168.11.201	9008
🗆 xx	х		192.168.23.85	9008
Setup Refresh OK Cancel				

Fig 4-2 Add Devices

*Note*: If the network of IP cameras and NVR are in LAN, their IP address must be in the same network segment. For example: If the IP address of NVR is 192.168.011.003, the IP address of IP camera must be 192.168.011.XXX.

Setup	X
IP	192.168.011.003
Subnet Mask	255.255.000.000
Gateway	192.168.011.001
User Name	admin
Password	
Local IP	192.168. 011.007
Local Subnet Mask	255.255.000.000
Local Gateway	192.168. 011.001
	OK Cancel

Fig 4-3 Modify IP Address

③ Checkmark the searched devices and click "OK" button to return to the previous interface. Click "Apply" button and then the added devices will be listed in the device management interface. "Connected" status means connecting the device successfully and you will see the live image. You may select the added device and click "Setup" button to modify channel, IP address of the device as shown in Fig 4-5.

DEVICE MANAGEMENT				
СН	Device NetAddress	Manufacturer	Product Model	Status
1				Connected
2	192.168.23.85	ххх	xxx	Connected
			L	
1/1				
Add	Add Setup Delete Search Apply Exit			

**Fig 4-4 Search Devices** 

MODIFY DEVICE	X
Enable	
Channel	1
Manufacturer	TVT
IP Address	192.168.013.003
Server Port	9008
User Name	admin
Password	
	OK Cancel

Fig 4-5 Modify Devices

#### To add IP cameras via WAN:

- (1) Please go to Main Menu $\rightarrow$ IP Camera tab. Refer to Fig 4-1.
- ② Click "Add" button to pop up a window as shown in Fig 4-6. You need to check "Enable" box, select channel and manufacturer and manually input IP address, server port, username and password of this device.

Enable		
Channel		5
Manufacturer		
IP Address	000.000.000.000	
Server Port	1	
User Name		
Password		

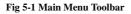


*Note:* If the NVR and the IP cameras you want to add are both in WAN, the IP address of the IP camera input here must be WAN IP.

# 5 Main Menu Setup Guide

Click right mouse or press ESC/Exit button on the front panel to display the main menu toolbar on the bottom of the screen. Refer to Fig 5-1.





Click the  $\square$  icon beside the screen mode to display a channel select dialog.

Screen Mode: You can choose a screen display mode to show the live images.

**PIP**: Click this button to set PIP. Click this button to choose the bigger picture and then click the little PIP button beside the word "None" to set the smaller picture. After that, you can see a picture in picture.

**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.

Color: If this button is enabled, you can adjust the color of live images.

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 connected to the IP camera.

Record: Click this button to start/stop recording.

Playback: Click this button to playback the recorded files.

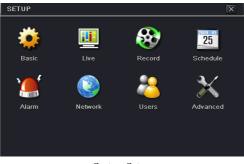
You can click Move Tool button and drag it anywhere with the left mouse to move the main menu bar anywhere.

Click Main Menu button to pop up a window as Fig 5-2; 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 5-2 Main Menu

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System Setup

# 5.1 Basic configuration

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

# 5.1.1 System

(1) Go to Main Menu $\rightarrow$ Setup $\rightarrow$ Basic $\rightarrow$ System. Refer to Fig 5-3.

BASIC	X
System Date & Time DST	
Device Name	EDVR
Device ID	0
Video Format	NTSC
Password Check	
Show System Time	
Max Online Users	20
Video Output	HDMI
Language	English
Logout After [Minutes]	Never 🗸 🗸
	Default Apply Exit

Fig 5-3 Basic Configuration-System

<sup>(2)</sup> In this interface you can set up the device name, device ID, video format, max network user, VGA resolution and language. The definitions for every parameters display as below:

**Device Name**: The name of the device as it may display on the client end or on CMS, this would help the user to recognize the device remotely.

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

Video Format: Two modes: PAL and NTSC. User can select the video format according to the cameras being used.

**Password Check**: If enabled the user would need to input the user name and the password for performing corresponding operations.

Show System Time: If selected, displays the current time during live monitoring.

Max Online Users: To set the maximum number of concurrent user logins in the NVR.

Show wizard: If selected, the GUI would launch the startup wizard on every boot, allowing

user to do basic setup.

Video Output: Resolution of live display interface.

Language: To set up the menu language.

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

**Logout After (Minutes)**: You 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 the login interface.

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

#### 5.1.2 Date & Time

(1) Go to Main Menu $\rightarrow$ Setup $\rightarrow$ Basic $\rightarrow$ Date & Time tab. Refer to Fig 5-4.

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	08 / 19 / 2013 25
System Time	14:50:07
	Save Now
	Default Apply Exit

Fig 5-4 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 adjust system date manually
- ③ Click "Apply" button to save the settings.

# 5.1.3 DST

- (1) Go to Main Menu $\rightarrow$ Setup $\rightarrow$ Basic $\rightarrow$ DST interface. Refer to Fig 5-5.
- ② In this interface, enable daylight saving time, time offset, mode, start & end month/week/date, etc.
- ③ Click "Apply" button to save the settings.

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System Date & Time DST		
Daylight Saving Time		
Time Offset [Hours]	1	
Mode	💿 Week 💿 Date	
From	January	
	The 1st	JĽ
	Sunday	-
	00 : 00 : 00	
Until	January	
	The 1st	

Fig 5-5 Basic Configuration-DST

# 5.2 Live Configuration

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

# 5.2.1 Live

In this interface, you can set up camera name.

#### To set up camera name:

(1) Go to Main Menu $\rightarrow$ Setup $\rightarrow$ Live $\rightarrow$ Live. Refer to Fig 5-6.

Live	Main Monitor Mask		
СН	Camera Name	Show Name	Color
	CAMERA01		Setting
	CAMERA02		Setting
3	CAMERA03		Setting
4	CAMERA04		Setting
5	CAMERA05		Setting
6	CAMERA06		Setting
All		Recording	j Status 🗹
			Setting

Fig 5-6 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.

All channels will show the camera name by checking "All" checkbox.

#### To set up color:

① Click "Setting" button for a particular camera/channel to see a window as below.



② In this interface, you can adjust brightness, hue, saturation and contrast in live. Click "OK" button to save the setting.

# 5.2.2 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 Main Menu $\rightarrow$ Setup $\rightarrow$ Live $\rightarrow$ Main Monitor interface. Refer to Fig 5-7.
- 2 Select display mode and <u>channel</u>.
- ③ 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.
- ④ Click "Apply" to save the setting.



Fig 5-7 Live Configuration-Main Monitor

#### 5.2.3 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. If the mask function is not available in the added IP camera, the mask function here will not take effect.

#### To set up mask area:

(1) Go to Main Menu $\rightarrow$ Setup $\rightarrow$ Live $\rightarrow$ Mask interface. Refer to Fig 5-8.

isk Area Setting					
					f
Setting					[
Setting					
Setting					8
	Setting Setting Setting Setting Setting Setting	Setting Setting Setting Setting	Setting Setting Setting Setting	Setting Setting Setting Setting	SettingSettingSettingSettingSettingSettingSettingSetting

Fig 5-8 Live Configuration-Mask

- 2 Click Setting button to go to 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 5-9 Setting Mask Area

# 5.3 Record Configuration

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

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

## 5.3.1 Enable

- (1) Go to Main Menu $\rightarrow$ Setup $\rightarrow$ Record $\rightarrow$ Enable tab. Refer to Fig 5-10.
- 2 Checkmark record and audio.

REC	ORD		X
Enst	Record Bitrate	Time Stamp Recycle Record Snap	
СН	Record	Audio	
1			
2			Ľ
3			
4			
5			
6			
All			
		Default Apply	Exit

Fig 5-10 Record Configuration-Enable

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

③ Select All to set up the same settings for all channels.

# 5.3.2 Record Bitrate

- (1) Go to Main Menu $\rightarrow$ Setup $\rightarrow$ Record $\rightarrow$ Record Bitrate. Refer to Fig 5-11.
- ② Set rate, resolution and max bit stream.
- ③ Select "All" to set the same settings for all channels.
- ④ Click "Apply" button to save the setting.

REC	ORD						X
Enat	ble Record Bitrate	Time	Stamp	Red	cycle Record	Snap	
СН	Resolutio fps		Encode		Quality	Max Bitrate	
1	1080P 🔽 30		CBR		Higher 🥃	6144 kbps	
2	1080P 💌 30				Higher 🥃	6144 kbps	
3	1080P 🔻 30		CBR		Higher 🥃	6144 kbps	
4	1080P 💌 30		CBR		Higher 🥃	6144 kbps	
5	1080P 💌 30		CBR		Higher 🥃	6144 kbps	
6	1080P 🔻 30		CBR		Higher 🧧	6144 kbps	
	i						
	1080P 🐱 30	U	CBR		Higher 🥃	6144 kbps	
				D	efault 🦳 🦯	\pply	Exit

Fig 5-11 Record Configuration-Record Bitrate

Parameter	Meaning
Rate Range from: 1-30 (NTSC) 1-25(PAL)	
Resolution Supports 3MP, 1080P, 960P, 720P, D1	
Quality The default quality is higher	
Encode	CBR
Max bit stream	Range from: 256~12288kbps

If the value of the parameter is set to exceed the maximum resources of the system, the system

will automatically adjust it.

# 5.3.3 Time

- Go to Main Menu→Setup→Record→Time interface to set recording time. Refer to Fig 5-12.
- ② Set Pre-alarm record time and post-alarm record time. Select "All" to set the same settings for all channels.
- ③ Click "Apply" to save the setting.

Enab	ole Record Bitr	ate <mark>Time</mark> Star	np Recycle R	ecord	Snap	
СН	Pre-alarm Re	cord Tim Pos	alarm Record	I Tim E	xpire[Day	's]
1	5	30		1 🗉	lever	
2		30		1 🔍	lever	
3	5	30		1 🗉	lever	
4	5	30			lever	
5	5	30			lever	
6	5	30			lever	
All						
	5	▼ 30			lever	F

Fig 5-12 Record Configuration-Time

**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.

# 5.3.4 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 Main Menu $\rightarrow$ Setup $\rightarrow$ Record $\rightarrow$ Stamp interface. Refer to Fig 5-13.
- <sup>(2)</sup> 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 as shown below.
- ③ Select "All" to set up all channels with the same parameters.

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Enat	ole Record Bitrate	Time Stamp Recy	cle Record Snap
сн	Camera Name	Time Stamp	Position
			Setting
2			Setting
3			Setting
4			Setting
5			Setting
6			Setting 🕞
<b>A</b> II			
			Setting

Fig 5-13 Record Configuration-Stamp



Before drag

After drag

## 5.3.5 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 Main 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 NVR would stop recording once HDD is full.
- ③ Click "Apply" button to save the setting.

# 5.3.6 Snap

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

# 5.4 Schedule Configuration

Schedule configuration includes three sub menus: schedule, motion and sensor.

## 5.4.1 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 Main Menu $\rightarrow$ Setup $\rightarrow$ Schedule $\rightarrow$ Schedule interface. Refer to Fig 5-14.

SCHEDULE						X
Schedule Mot	ion Sens	sor				
Channel	1					>
	00:00	04:00	08:00	12:00	16:00	20:00
Sunday						
Monday						
Tuesday						
Wednesday						
Thursday						
Friday						
Saturday						
Apply Settings	To All		Channe		Сору	
			De	fault	Apply	Exit

Fig 5-14 Schedule Configuration-Schedule

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.

You can also set week schedule by double-clicking in the gridding area. This will take you to see a dialog box as Fig 5-15.

- Select a day and click "Add" button to schedule start time and end time. Then click 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 Settings To 🔠 💌 Copy				
Start Time	End Time			
Start Time				
Hour 0 😇 Minute 0				
Hour 23 Vinute 59				
	× ×			
Add Delete	OK Exit			

Fig 5-15 Schedule-Week Schedule

## 5.4.2 Motion Schedule

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

- (1) Go to Main Menu $\rightarrow$ Setup $\rightarrow$ Schedule $\rightarrow$ Motion tab.
- <sup>(2)</sup> The setup steps for schedule for motion based recording are similar to normal schedule setup. You can refer to 5.4.1 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 5.5.2 Motion Alarm for more details).

# 5.4.3 Sensor Schedule

This tab allows setting schedule for sensor based recording. The setting steps are as follows:

- (1) Go to Main Menu $\rightarrow$ Setup $\rightarrow$ Schedule $\rightarrow$ Sensor interface.
- <sup>(2)</sup> The setup steps for schedule for sensor based recording are similar to normal schedule setup (see Chapter 5.4.1 Schedule for details).

*Note:* The default schedule of sensor based recording is 24 x7. If you want to activate sensor based recording, you must enable sensor alarm and set up schedule for sensor alarm (see Chapter 5.5.1 Sensor Alarm for more details).

# 5.5 Alarm Configuration

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

# 5.5.1 Sensor Alarm

Sensor includes three sub menus: basic, alarm handling and schedule. Operate the following steps to configure sensor alarm:

① Go to Main Menu→Setup→Alarm→Sensor→Basic tab. Refer to Fig 5-16.

SEN	SENSOR				
Basic	Basile Alarm Handling Schedule				
СН	Enable	Туре	Name		
1		NO	SENSOR 1		
2		NO	SENSOR 2		
3		NO	SENSOR 3		
4		NO	SENSOR 4		
5		NO	SENSOR 5		
6		NO	SENSOR 6		
All					
		NO			
			Default Apply Exit		

Fig 5-16 Alarm Configuration-Sensor-Basic

- 2 Enable channels by checking the checkboxes beside the desired channels.
- ③ Set the alarm type according to triggered alarm type. Two options: NO and NC.
- ④ Click "Apply" button to save the setting.
- ⑤ Go to Alarm Handling tab. Refer to Fig 5-17. Select hold time and then click "Setting" button to pop up a dialog box as shown in Fig 5-18.

SEN	SENSOR			X
Basic	c Alarm Handling Schedu	le		
СН	Holding Time[S]		Trigger	
1	10	-	Setting	
2	10	-	Setting	
3	10	-	Setting	
4	10	-	Setting	
5	10	-	Setting	
6	10	-	Setting	
All				
	10	-	Setting	
			Default Apply	Exit

Fig 5-17 Alarm Configuration-Sensor-Alarm Handling

6 Go to alarm tab to select the options to handle alarm.

TRIGGER - Channel 1				
Alarm To Record				
Buzzer				
Show Full Screen	None 💌			
To Alarm Out	1 2 3 4			
Email				
Snap				
	5 6 7 8			
9 10 11 12				
17 18 19 20	21 22 23 24			
25 26 27 28	29 30 31 32			
	OK Exit			

Fig 5-18 Alarm Handling-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.

To Alarm Out: If selected, this would trigger external relay output on an alarm.

**Email:** If selected, the NVR will send an email alert to the preconfigured email address in case of a sensor 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.

- ⑦ Go to To Record tab. Select recording channels. It would be recorded in case of an alarm. Click OK button to save the setting.
- ③ Go to Schedule tab. The setting steps for schedule for sensor based alarm are similar to normal schedule setup. You can refer to 5.4.1 Schedule for details. This step is very important for sensor alarm. Even if you have enabled the sensor alarm for all channels and set the trigger, you will not see the result of sensor alarm if no schedule is added.

If you have set schedule for sensor based recording in the same timeline, recordings can also be triggered.

# 5.5.2 Motion Alarm

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

- (1) Go to Main Menu $\rightarrow$ Setup $\rightarrow$ Alarm  $\rightarrow$ Motion $\rightarrow$ Motion tab. Refer to Fig 5-19.
- 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 to 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 as continuous movement, otherwise it will be considered as a single motion.

мот	ION			X
Motio	on 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
5		10 🖉	Setting	Setting
6		10 🔽	Setting	Setting 🕞
All				
		10		
			Default	Apply Exit

Fig 5-19 Alarm Configuration-Motion

- ③ The setup steps of motion trigger are similar to "Alarm Handling" (See Chapter 5.5.1 Sensor → Alarm Handling setting for more details).
- ④ After clicking Area button, a dialog box will pop up as Fig 5-20.



Fig 5-20 Motion-Area

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.

*Note:* Prior to setting motion detection field it is recommended that you click *field and set afresh.* 

- 6 Select "All" to set the same settings for all channels.
- ⑦ Click "Apply" button to save the setting.
- ③ Go to Schedule tab. The setting steps for schedule for motion based alarm are similar to normal schedule setup (see Chapter 5.4.1 for more details).

#### 5.5.3 Other Alarm

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

(1) Go to Main Menu $\rightarrow$ Setup $\rightarrow$ Alarm $\rightarrow$ Other Alarm. Refer to Fig 5-21.

OTHER ALARM	X
Alarm Type	Disk Full Disk Full
Buzzer Email To Alarm Out	IP Conflict Disconnect Disk Attenuation Disk Lost
Disk Shortage Alarm	128 MB
	Default Apply Exit

Fig 5-21 Other Alarm

- 2 Use the dropdown menu and select the event or the alarm.
- ③ Check the required trigger options.

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.

④ Click "Apply" to save the setting.

## 5.5.4 Alarm Out

Alarm out includes three sub menus: alarm out, schedule and buzzer.

#### To set up alarm out:

(1) Go to Main Menu $\rightarrow$ Setup $\rightarrow$ Alarm $\rightarrow$ Alarm Out $\rightarrow$ Alarm Out. Refer to Fig 5-22.

ALA	RM OUT			X
Alam	n Out Schedule Buzzer			
СН	Relay Name		Holding Time[S]	
1	ALARM OUT 1			
	ALARM OUT 2		10	
3	ALARM OUT 3		10	
4	ALARM OUT 4			
All				
			10	Ţ
		Default	Apply	Exit

Fig 5-22 System Configuration-Alarm Out

- 2 Input relay name and select hold time.
- <sup>(3)</sup> Go to Schedule tab. This will go to schedule setup interface. The setting steps for schedule for alarm out are similar to normal schedule setup (see Chapter 5.4.1 for details).

This step is very important for alarm out. Even if you have enabled alarm out in the motion based alarm or sensor based alarm, you will not see the result of alarm out if no schedule is added here.

#### To set up buzzer:

- (1) Go to Main Menu $\rightarrow$ Setup $\rightarrow$ Alarm $\rightarrow$ Alarm Out $\rightarrow$ Buzzer.
- <sup>(2)</sup> Checkmark Buzzer and set buzzer alarm hold time. This would trigger the buzzer when the system is on an alarm.

# 5.6 Network Configuration

Network configuration includes five submenus: network, email, server, NAT and other settings. Network settings must be configured if NVR is used for monitoring over network.

# 5.6.1 Network

To set up network:

- (1) Go to Main Menu $\rightarrow$ Setup $\rightarrow$ Network $\rightarrow$ Network tab. Refer to Fig 5-23.
- 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.
- ④ Connect internet. There are three ways to connect internet.

NETWORK				
Network Email Server NAT Other Settings				
HTTP Port	80			
Server Port	6036			
Obtain an IP address automatically				
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			
	Default Apply Exit			

Fig 5-23 Network Configuration-Network

- If you have a DHCP server running and would like your NVR 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 NVR 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.

**Switch IP**: Modify the IP address of the camera connected through PoE port (eg.192.168.1.1). After you change the IP, the system will reboot. Then go to Main Menu $\rightarrow$ IP Camera. You will see the IP address of the network cameras connected through PoE ports become 192.168.1.XXX.

Switch SubNetMask: Modify the subnet mask of the camera connected through PoE ports.

# 5.6.2 Email

#### To set up Email:

- (1) Go to Main Menu $\rightarrow$ Setup $\rightarrow$ Network $\rightarrow$ Email tab. Refer to Fig 5-24.
- ② Set SMTP Server and port.
- ③ Set sender's address and password.
- ④ Set receiver's email address and click "Test" button to test the validity of the mailbox.

Network Email Server NAT (	other Settings
SMTP Server	
Port	25
SSL Check	
Send Address	
Password	
Receive Address1	
Receive Address2	
Receive Address3	
	Test

Fig 5-24 Network Configuration-Email

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

## 5.6.3 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 5-25.
- 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 to the transfer media interface to check.
- ③ Enable the auto report in the ECMS/NVMS when adding a new device. Then self-define device ID and input the remaining information of the device in the ECMS/NVMS.
- 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.

NETWORK	X		
Network Email Server NAT Other Settings			
Enable			
Server	192.168.3.123		
Server Port	2009		
Device ID	382		
	Default Apply Exit		

Fig 5-25 Network Configuration-Server

## 5.6.4 NAT

- (1) Go to Main Menu $\rightarrow$ Setup $\rightarrow$ Network $\rightarrow$ NAT interface. Refer to Fig 5-26.
- 2 Enable NAT and input the NAT Server (The default NAT Server is *www.autonat.com*).
- ③ Click "Apply" to save the settings.

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NETWORK	X
Network Email Server NAT Other	Settings
NAT Enable	
NAT Server	www.autonat.com
	Default Apply Exit

Fig 5-26 Network Configuration-NAT

#### 5.6.5 Other Settings

If your NVR is set to use PPPoE as its default network connection, you may set 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 Email Server NAT Other Settings							
DDNS							
DDNS Type	www.dvrdydns.com						
User Name							
Password							
Host Domain							
DDNS Update [Hours]	3						
	Test						
UPnP							
	Default Apply Exit						

Fig 5-27 Network Configuration-Other Settings

**Note:** The domain name selected by user is a banding domain name of NVR. 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.

> 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.

NEW USER REGIST	RATION
USER NAME	XXXX
PASSWORD	•••••
PASSWORD CONFIRM	•••••
FIRST NAME	XXX
LAST NAME	xxx
SECURITY QUESTION.	My first phone number.
ANSWER	XXXXXXXX
CONFIRM YOU'RE HUMAN	New Captcha Enter the text you see above
	Submit Reset

2 Create domain name.

You must create a domain name to continue.						
Domain name must start with (a-z, 0-9). Cannot end or start, but may contain a hyphen and is not case-sensitive.						
dvrdydns.com 👻 Request Domain						

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

		Click a name to edit your domain settings
NAME	STATUS	DOMAIN
654321ABC	0	654321abc.dvrdydns.com

#### > NVR Setting

Connect NVR to the Network Client.

- Go to Main Menu→Setup→Network→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. Click "Save" button to save the setting.
- ③ Login IE browser and input registered domain name "http://www.xxx.dvrdydns.com", connect to NVR 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.
- 2 Check "DDNS".
- ③ Select "www.autoddns.com" in DDNS Type column as shown above.
- ④ Enter the host name at random, like 123.

<sup>(5)</sup> Click "Register" to register the domain name. When the successful prompt pops up, it means you successfully register your domain name.

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

DDNS server					
DDNS server	Website provided by dynamic domain name supplier. The optional: www. dvrdydns.com, www.meibu.com, www.dyndns.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 NVR IP address				

If your IP address is not WAN IP address, you should forward your IP address and port in your router (if the UPnP function is enabled both in the NVR and the router, you may skip this step). Then you can use the domain name plus HTTP port to access your device.

## 5.7 User Management Configuration

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

(1) Go to Main Menu $\rightarrow$ Setup $\rightarrow$ Users. Refer to Fig 5-28.

USER MANAGEMENT		X
User Name	User Type	PC MAC Address
admin		00-00-00-00-00-00
Add Setup Del	lete Change Pa	assword Exit

Fig 5-28 User Management Configuration

2 Click "Add" button to display a dialog box as Fig 5-29.

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

Fig 5-29 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 NVR only through the specific computer (carrying the MAC address).

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

ADD USER				X			
General Authority							
Log Search       System Setup       Shut Down       A         ✓ Two Way Audio       File Managemen       Disk Manageme         ✓ Remote Login       Digital Manage							
Live View							
		5 6	7 8				
9 9 1	0 🗹 11 🗹 12 🗹	13 🗹 14	15 🗹 18	3			
17 🗹 1	3 🗹 19 🗹 20 🛛 🗹	21 22	23 24	1			
25 22	i ♥ 27 ♥ 28 ♥	29 🗹 30	31 🗹 32	2 🕞			
			ок	Exit			

Fig 5-30 Add User-Authority

#### To delete user:

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

### 5.8 Advanced

Advanced configuration includes three submenus: reset, import/export and block/allow list.

#### 5.8.1 Reset

Reset the device to factory default settings.

#### 5.8.2 Import/Export

User can export the data files into mobile storage devices as backup function, and then import specified data files from mobile storage device to NVR.

#### 5.8.3 Block/Allow List

BLOCK / ALLOW LIST							
		O Block List	Allow List				
	ID	IP From	То				
	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 E	Exit			

Fig 5-31 Block/Allow List

Here authorized user can prohibit computer users within a certain IP address range from accessing to NVR or allow computer users within a certain IP address range to access NVR. 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 NVR, he can check Block list option, and then input such IP address range.

## 6 Search, Playback & Backup

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

## 6.1 Time Search

(1) Go to Main Menu $\rightarrow$ Search $\rightarrow$ Time Search. Refer to Fig 6-1.

SE	ARCH													X
Tim	e Search	Event	Search	File Mana	gement Ima	ge						[	Sea	irch
Start Time 03 / 21 / 2013 23 00 : 00 : 00						<								
								Su	Mo	Tu	We	Th	Fr	Sa
	00:00	04:	00	08:00	12:00	16:00	20:00							
1									4				8	
2													15	
4												21		
5														
6														
7									1		2	3		4
8									5		6	7		8
9									9		10	1	1 🗹	12
10									🗹 1	3 🔽	14	<b>1</b>	5 🔽	16
11									<b>I</b>			<b>I</b>		
12												2		
13 14									2					
14									2	9 🗸	30	💽 3	1 🗹	32
16														
1/2	2													

Fig 6-1 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 ■	<b>₩</b> Q 🔆 [Å 🗎 (	Camera Name	
03 Stop Forwardo: Screen	Mode Color Backu	₽ >>1X	Audio Exit 9:59

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

Select the start time by dragging the slider and click "Cut" icon. Then select the end time and click this icon again to confirm the record period. Next, click "Backup" icon to backup the record during this period.

## 6.2 Event Search

(1) Go to Main Menu $\rightarrow$ Search $\rightarrow$ Event Search button. Refer to Fig 6-2.

- ② Select date and channels on the right hand side. A data with highlighted borderline indicates presence of data.
- ③ Checkmark Motion, Sensor 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.

Time	Search Even	Search File Management In	nage					[	Sea	irc
сн	Туре	Start Time	End Time	201						
1	Motion	03/21/2013 15:11:40	03/21/2013 15:12:04	Su	Mo	Tu	We	Th	Fr	s
	Motion	03/21/2013 15:11:40	03/21/2013 15:12:04							
3	Motion	03/21/2013 15:11:40	03/21/2013 15:12:04							
4	Sensor	03/21/2013 15:11:40	03/21/2013 15:12:04							
5	Motion	03/21/2013 15:11:40	03/21/2013 15:12:04							1
6	Motion	03/21/2013 15:11:40	03/21/2013 15:12:04	26				30	31	
	Motion	03/21/2013 15:11:40	03/21/2013 15:12:04				0			
8	Sensor	03/21/2013 15:11:40	03/21/2013 15:12:04	기쁨	✓ 1			3		ן ב 1 ב
9	Motion	03/21/2013 15:11:40	03/21/2013 15:12:04	기 🛱			10		1 🔽	
10	Motion	03/21/2013 15:11:40	03/21/2013 15:12:04	1 🖻	1	3 🔽	14	1	5 🗹	] 1
11	Motion	03/21/2013 15:11:40	03/21/2013 15:12:04		<b>I</b>	7 🗹	18	<b>I</b>	9 🗹	]:
12	Motion	03/21/2013 15:11:40	03/21/2013 15:12:04		2		22	2		
13	Sensor	03/21/2013 15:11:40	03/21/2013 15:12:04	1 🖳		5 🗹		2		
14	Motion	03/21/2013 15:11:40	03/21/2013 15:12:04		2	9.	30	3	1 🗹	0.8
1/2				11						

Fig 6-2 Search Configuration-Event Search

## 6.3 File Management

(1) Go to Main Menu $\rightarrow$ Search $\rightarrow$ File Management interface. Refer to Fig 6-3.

ime Sea	arch Event Search File M	anagement Image				Sea
СН	Start Time	End Time	Status	2013	3	
1	03/21/2013 15:11:40	03/21/2013 15:12:04		Su Mo	Tu We Th	Fr
	03/21/2013 15:11:40	03/21/2013 15:12:04				
3	03/21/2013 15:11:40	03/21/2013 15:12:04		3 4		8
4	03/21/2013 15:11:40	03/21/2013 15:12:04		10 11	12 13 14	15
5	03/21/2013 15:11:40	03/21/2013 15:12:04		17 18		
6	03/21/2013 15:11:40	03/21/2013 15:12:04		24 25		29
] 7	03/21/2013 15:11:40	03/21/2013 15:12:04		31		
8	03/21/2013 15:11:40	03/21/2013 15:12:04			1 🗹 2 🗹 3	
9	03/21/2013 15:11:40	03/21/2013 15:12:04				1
10	03/21/2013 15:11:40	03/21/2013 15:12:04			9 10 11 13 14 11	
11	03/21/2013 15:11:40	03/21/2013 15:12:04			17 🗹 18 🗹 1	
12	03/21/2013 15:11:40	03/21/2013 15:12:04			21 🗹 22 💌 2	3 🗹
13	03/21/2013 15:11:40	03/21/2013 15:12:04				
14	03/21/2013 15:11:40	03/21/2013 15:12:04			29 🗹 30 🗹 3	1 🗹

Fig 6-3 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.

## 6.4 Search by Image

- (1) Go to Main 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 6-4 Search Configuration-Image

## 6.5 Backup

This unit supports backup by built-in SATA DVD Writer with USB Flash. You can also make backup by IE browser via internet (see section 8.5.2 Remote backup).

- ① Go to backup configuration. Refer to Fig 6-5.
- ② Set the start & end time, select channels and click Search button to display the searched data in the data backup list box.

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CH         Start Time           Ø         1         03/21/2013 15:11:40           Ø         2         03/21/2013 15:11:40           Ø         3         03/21/2013 15:11:40           Ø         4         03/21/2013 15:11:40           Ø         4         03/21/2013 15:11:40           Ø         6         03/21/2013 15:11:40           Ø         6         03/21/2013 15:11:40           Ø         6         03/21/2013 15:11:40           Ø         9         03/21/2013 15:11:40           Ø         9         03/21/2013 15:11:40           Ø         10         03/21/2013 15:11:40           Ø         11         03/21/2013 15:11:40           Ø         12         03/21/2013 15:11:40           Ø         13         03/21/2013 15:11:40           Ø         14         03/21/2013 15:11:40		X
Initial         Initial           Initial         Initial           Initial         Initial	End Time 03/21/2013 15:12:04 03/21/2013 15:12:04	Start Time         03 / 21 / 2013         23           00:00         00         00           End Time         03 / 21 / 2013         23           23:59:59         9         1         2           Ø         1         2         3         4           Ø         5         6         7         7         8           Ø         9         10         11         9         20         1         9           Ø         10         11         12         Ø         4         Ø         9         10         11         12         Ø         4         Ø         9         10         11         12         Ø         4         Ø         10         11         12         Ø         10         11         12         Ø         10         11         12         Ø         10         11         12         Ø         11         12         Ø         11         12         Ø         11         12         Ø         11         12         11         12         11         12         11         12         12         11         12         12         12         12         12         12         1
16         03/21/2013 15:11:40           1/1	03/21/2013 15:12:04	

Fig 6-5 Backup Configuration

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

BACKUP INFORMATION	
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%
	Disk Cleanup Start Cance

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.

## 7 Manage NVR

## 7.1 Check System Information

Check system information includes seven submenus: system, event, log, network, online users, record and QRCODE.

#### 7.1.1 System Information

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

#### 7.1.2 Event Information

In this tab, you can search for events like motion, sensor 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.

#### 7.1.3 Log Information

In this tab, you can search for relevant logs as per the 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.

#### 7.1.4 Network Information

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

#### 7.1.5 Online Information

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

Refresh: refresh the current interface.

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

#### 7.1.6 Record Information

In this interface, you can check the resolution, ftp and record status including sensor alarm recording, motion recording, manual recording or schedule recording.

#### 7.1.7 QRCODE

User can quickly access the mobile client by scanning QRCODE. Go to Main Menu $\rightarrow$ Information $\rightarrow$ QRCODE tab. Refer to Fig 7-1.

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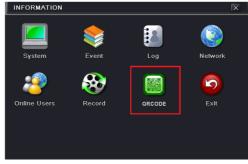


Fig 7-1 Information Configuration

In this interface, you can scan the QRCODE through the mobile phone. Refer to Fig 7-2.



Fig 7-2 Information Configuration-QRCode

## 7.2 Manual Alarm

In this interface, user can trigger a manual alarm.

## 7.3 Disk Management

#### 1. Format the disk

- ① Go to disk management tab.
- 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:** Please format the hard disk before recording. If not formatted, it will show the status of the disk-free space, and total space at the bottom of screen. All recorded files in the hard disk will be lost once it is formatted.

#### 2. Advanced

User may check model, S/N, firmware, health status of the disk in this interface. User 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.

## 7.4 Upgrade

The NVR can be upgraded by using USB flash drive. Get the upgrading software from your vendor when there is a new software version.

#### **Upgrade Steps:**

- ① Copy the upgrade software which gets from vendor into the USB (2.0) storage device.
- ② Connect the USB flash drive to the USB port.
- ③ Go to Main Menu→Upgrade tab. Then the upgrade software name would be displayed in the upgrade list box.
- ④ Select that software and then click upgrade button. It will upgrade automatically.

*Note:* Please wait for a while when the system reboots. Never cut off power during upgrading. The original configuration will be reserved after upgrade.

## 7.5 Logoff

Go to Main Menu  $\rightarrow$  Logoff tab. A log off dialogue box will pop up. The device will log off by clicking "OK" button. If you want to log in again, click Main Menu icon to go to user name and password to re-login.

## 8 Remote Surveillance

## 8.1 IE Remote Surveillance by NAT

#### 8.1.1 NAT Settings

- 1 The NVR shall be powered on and connected to the network.
- ② Go to Main Menu→Setup→Network→Network. You can obtain the IP address, Subnet Mask and Gateway automatically. You can also manually input them according to the actual network situation. 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 5.6.1 Network for details).
- (4) Go to Main Menu $\rightarrow$ Setup $\rightarrow$ Network $\rightarrow$ NAT tab.
- (5) Enable NAT and input the NAT Server (The default NAT Server is *www.autonat.com*).
- ⑥ Click "Apply" to save the parameters (Please refer to 5.6.4 NAT for details).

#### 8.1.2 NAT Access

After finishing the NAT settings, you can enter the NAT Server on the remote 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: The WEB client must be in the remote network. It cannot be in the same local network as that of the NVR, otherwise, access failure will happen. If you cannot download and install ActiveX, please refer to FAQ Q8.

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

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

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

User Name: The login username of NVR. The default username is *admin*.

Password: The login password of NVR. The default password is 123456.

## 8.2 IE Remote Surveillance via LAN & WAN

In order to view the NVR from a network it must be connected to a LAN/WAN or internet. The network setup should be done accordingly. Please refer to 5.6 Network Setup.

#### 8.2.1 Via LAN

- ① Go to the NVR's Main Menu→Setup→Network→Network tab to input IP address, Subnet Mask, etc. If using DHCP, please enable DHCP in both the NVR and the router
- 2 Go to 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 NVR 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, add the port number after IP address. For example, set HTTP port as 82, input IP address like 192.168.0.25:82. User name and password here are the same with that used on the NVR. The default is **admin** and **123456**.

#### 8.2.2 Via WAN

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

#### 1. Connect the NVR to internet through router or virtual server.

- ① Go to the NVR's Main Menu→Setup→Network interface to input IP address, Subnet Mask, etc. If using DHCP, please enable DHCP in both the NVR 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 NVR.

**Note:** Port forwarding settings may be different in different routers and server. Please refer to the router's manual for details.

- ③ 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.
- ④ 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 NVR to internet through PPPoE directly.

① Go to the NVR's Main Menu→Setup→Network interface to enable PPPoE and then input user name and password received from your ISP. Next, click "Apply". The NVR will connect to the server and would give a confirmation message.

- ② When accessing the remote interface of NVR, user can input WAN IP to access directly (user can go to Main Menu→Information→Network interface to check IP address).
- ③ If users want to utilize dynamic domain name, please apply for a domain name in a DNS server supported by the NVR or router. Then add to the NVR.
- ④ The following setting steps are as the same as Step3 and Step 4 in Point 1.

## 8.3 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:

First: Right click safari icon and select "Show in Finder".

Second: Select Applications→Right click "Safari. App"→Select "Get Info".



Third: Select "open in 32- bit mode".

▼ General:
Kind: Application (Intel)
Size: 57.3 MB on disk (48,525,663 bytes)
Where: /Applications
Created: 2009-8-20 Thu. 1:22 a. m
Modified: 2010-10-19 Tue.a. m 11:56
Version: 5.0.2, Copyright © 2003-2010 Apple Inc.
Label: 🗴 🗉 🖬 🖬 🖬 🖬 🖬
Open in 32-bit mode
Open using Rosetta
Locked
▶ More Info:
▼ Name & Extension:
Safari.app
✓ Hide extension

#### 8.3.1 Via LAN

 After starting Apple computer, click Apple icon. The following window will pop up. Please select "System Preferences" → "Internet &Wireless" → click "Network".

About This Mac Software Update	
Mac OS X Software	
System Preferences	5
Dock	Þ
Recent Items	Þ
Force Quit Finder	て合業の
Sleep Restart Shut Down	℃₩▲
Log Out coodoo	û₩Q

② Go to Network interface and then click "Ethernet Connected" to check the internet connection of Apple PC.

Status:	Connected	
	Ethernet is currently active and has the IP address XXX. XXX. XXX. XXX	
Configure IPv4:	Manually :	9
IP Address:	XXX. XXX. XXX. XXX	
	XXX. XXX. XXX. XXX	
	XXX. XXX. XXX. XXX	
DNS Server:	XXX. XXX. XXX. XXX	
Search Domains:		1
	Advanced	) (?)
her changes.	(Assist me) (Revert ) (A	pply

- ③ After acquiring the IP address, Subnet Mask and so on, please go to the NVR'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 NVR and router.
- ④ After finishing the above information, users 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 NVR, 81 is the HTTP port of NVR). Click " " button, the browser will download ActiveX control as shown below.



(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.

<b>80</b> 0	Install WebClientPlugin-64 Welcome to the WebClientPlugin-64 Installer	Downloads n=64.pkg	$\bigcap$	Type your password to allow installer to make changes.
Introduction     Destination Seles     Installation(ype)     Installation	You will be guided through the steps necessary to install this software.	& Downloads		Name: coodoo Password:
• Summary	Co Back Continue	4	▷ Details	Cancel OK

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

⑥ After finishing installing the ActiveX control, please quit from the Safari browser. Right click Safari icon on the desktop and select "Quit" button to quit the browser. Then restart Safari browser. Input the IP address and HTTP port to enter the login interface of NVR.

### 8.3.2 Via WAN

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

#### 1. Connect the NVR 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.
- <sup>(2)</sup> Enter WAN IP and HTTP port in the Safari browser to install the Active control. Then a window pops up and asks for user name and password. Input name and password correctly, and enter to view.

#### 2. Connect the NVR to internet directly.

- ① The network setups are the same as step one of point 2 on WAN of IE remote surveillance.
- <sup>(2)</sup> Enter WAN IP and HTTP port or domain name in the Safari browser to install the Active control. Then a window pops up and asks for user name and password. Input name and password correctly, and enter to view.

## 8.4 Remote Preview

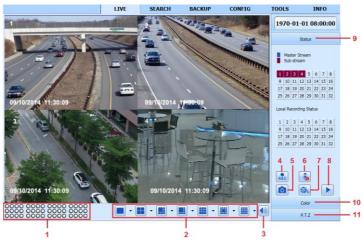


Fig 8-1 Remote Live Preview

*Note:* Click button to record manual and the record file will be saved in user's PC. *Screen display mode.* 

#### Symbol and function Definitions:

1	Channel indicator	2	Screen display mode	3	Volume
4	Remote Manual Record	5	Snap	6	Start talking
7	Client Record	8	Playback	9	Master/sub stream status
10	Color	11	P.T.Z control		

#### Screen display mode

#### **Snap pictures:**

The system will automatically capture pictures and save those pictures in the computer by clicking "Snap" icon, User should set up the path for those pictures in the Configuration $\rightarrow$ Local configuration.

#### Color adjustment:

Drag the slide bar to adjust Brightness, Contrast, Hue, and Saturation. Click Default to reset them to original value.

Buttons	Description
<u>☆</u> 0	Drag the scroll bar to adjust the brightness of channel
ا ↔	Drag the scroll bar to adjust the contrast of channel
	Drag the scroll bar to adjust the saturation of channel
0 0	Drag the scroll bar to adjust the hue of channel
0	Click this button to recover the default value of brightness, contrast, saturation and hue
	Save the adjustment

#### **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-left. ◀ to rotate the dome diagonally up-right ▼ to rotate the dome downwards ▲ to rotate the dome diagonally down-left ◀ to rotate the dome diagonally down-right ◀ 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.
- <b>°</b> +	"Zoom' button. Click $\textcircled{+}$ button near 'Zoom' button to zoom in the locale picture of this camera. Click $\fbox{-}$ 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.
↗•	Go to the Preset
	Select and do auto cruise
W	Track
	Auto scan
0	Wiper button
	Light button

#### **Right-Key Menu**

Click the right mouse on the live interface to display a pull-down menu as below.

**Stream:** The NVR supports master stream and sub stream. Master stream has higher frame rate, max 25fps (PAL)/30fps (NTSC) for every channel, but it needs higher network bandwidth; second stream has low frame rate, max 6fps (PAL)/7fps (NTSC) for every channel, but it requires low network bandwidth as compared to the master stream. Therefore, users can select the stream according to their bandwidth.



Fig 8-2 Right Key Sub Menu

All to 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 in full screen and the tool bar will be hidden; double click left 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.

## 8.5 Remote Playback & Backup

#### 8.5.1 Remote Playback

Click button to go to record playback interface. Refer to Fig 8-3.

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

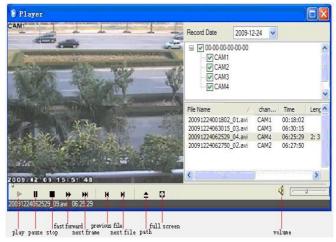


Fig 8-3 Record File Interface

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

#### By Time Search:

(1) Go to Search $\rightarrow$ Time search. Refer to Fig 8-4.

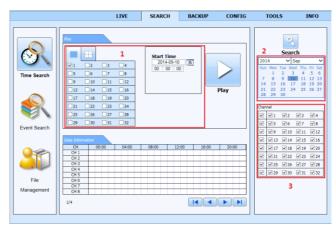


Fig 8-4 Time Search Interface

- ② The highlight date in the area ③ indicates recorded data. Select the date in the area ③ 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 Start time and display mode in the area (1) as required.
- ⑤ Click "play" button to playback.
- ⑥ Click the relevant buttons in the interface for operation, like FF, pause, change channel mode, research, etc. Please refer to Fig 8-5.



Fig 8-5 Time Search Playback

#### By Event Search:

(1) Go to Search $\rightarrow$ Event Search. Refer to Fig 8-6.

Channel	Start Time	End Time	Туре			50	arch			
1	2010-01-09 00:01:07	2010-01-09 00:02:16	motion					-		
1	2010-01-09 00:03:28	2010-01-09 01:24:11	manual	201			Jan			`
1	2010-01-09 00:08:36	2010-01-09 00:09:31	motion	Sun	Mon	Tue	Wed	Thu	Fri	Sa 2
1	2010-01-09 00:10:10	2010-01-09 00:10:58	motion	3	4	5	6	7	8	0
1	2010-01-09 00:11:30	2010-01-09 00:12:15	motion	10	11	12	13	14	15	1
1	2010-01-09 00:14:48	2010-01-09 00:15:43	motion	17	18	19	20	21	22	2
1	2010-01-09 00:15:45	2010-01-09 00:17:09	motion	24	25	26	27	28	29	3
1	2010-01-09 01:24:11	2010-01-09 02:46:11	manual	Chan	nal					_
1	2010-01-09 02:46:11	2010-01-09 03:19:45	manual					7.00		
1	2010-01-09 17:39:52	2010-01-09 17:57:12	manual	- I	✓1	<b>v</b>		∕3	1	
2	2010-01-09 00:01:07	2010-01-09 00:01:53	motion		₹5	<b>v</b>	6 🗄	17	1	8
2	2010-01-09 00:02:18	2010-01-09 00:03:01	motion		√9	-	10 -	11	1	12
2	2010-01-09 00:03:01	2010-01-09 00:04:12	motion		√ 13	1	14	/ 15	~	16
2	2010-01-09 00:03:32	2010-01-09 00:54:27	manual		17	1	19 6	/ 19	~	20
2	2010-01-09 00:14:22	2010-01-09 00:15:03	motion			-	_	_		_
2	2010-01-09 00:21:54	2010-01-09 00:22:35	motion		21	✓:	-	23	1	-
2	2010-01-09 00:23:51	2010-01-09 00:24:33	motion		25	<ul><li>✓</li></ul>	26	27	1	28
2	2010-01-09 00:25:12	2010-01-09 00:25:54	motion		29		30 🗄	✓ 31	1	32
2	2010-01-09 00:26:57	2010-01-09 00:28:43	motion		26					_
2	2010-01-09 00:31:48	2010-01-09 00:32:30	motion		~	Mo	otion			

Fig 8-6 Event Search Interface

- ② Click the highlight date and select record channels.
- ③ Checkmark the event type: motion and sensor.
- ④ The events will be displayed in the event list box by clicking Search button.
- 5 Double-click certain item to playback.

#### **File Management:**

- (1) Go to Search $\rightarrow$ File management. Refer to Fig 8-7.
- ② Select highlighted date and channels.

③ Click "Search" button to search the recorded files.

1     2010-01-09 00:01:07     2010-01-09 00:02:16     moton       1     2010-01-09 00:03:28     2010-01-09 00:02:11     moton       1     2010-01-09 00:03:28     2010-01-09 00:03:1     moton       1     2010-01-09 00:03:28     2010-01-09 00:01:21     moton       1     2010-01-09 00:11:30     2010-01-09 00:12:15     moton       1     2010-01-09 00:13:48     2010-01-09 00:12:15     moton       1     2010-01-09 00:13:44     2010-01-09 00:15:43     moton       1     2010-01-09 01:54:12     2010-01-09 02:15:43     moton       1     2010-01-09 01:54:12     2010-01-09 02:15:43     moton       1     2010-01-09 01:54:12     2010-01-09 02:15:43     moton       1     2010-01-09 01:54:12     2010-01-09 02:15:33     moton       2     2010-01-09 00:15:03     moton     V     V     V     V       2     2010-01-09 00:24:12     2010-01-09 00:05:03     moton     V     V     V     V     V     V       2     2010-01-09 00:03:10     2010-01-09 00:05:03     moton     V<	Check	Channel	Start Time	End Time	Status			Sea	rch	
1         2010-01-99 0003:28         2010-01-99 0012-111         Timbra           1         2010-01-99 0003:28         2010-01-99 0012-31         motion           1         2010-01-99 0001:261         2010-01-99 0012-31         motion           1         2010-01-99 001:130         2010-01-99 0012-31         motion           1         2010-01-99 001:130         2010-01-99 0012-31         motion           1         2010-01-99 001:543         motion         11 18 19 20 21 22         22           1         2010-01-99 001:543         motion         23 2 22 22         23 3         21           1         2010-01-99 01:545         2010-01-99 02:1545         manual         11 18 19 2 0 2 12 22         23 3           1         2010-01-99 01:542         2010-01-99 02:1543         motion         24 2 23 2         23 3         21 22           1         2010-01-99 00:1542         2010-01-99 00:1531         motion         22 2010-01-99 00:0531         motion           2         2010-01-99 00:0321         2010-01-99 00:1542         motion         22 2010-01-99 00:0321         2010-01-99 00:1542         motion           2         2010-01-99 00:1542         2010-01-99 00:2542         motion         22 21 22 22 22 2         22 2         22 2         2010-01-		1	2010-01-09 00:01:07	2010-01-09 00:02:16	motion					
1       2010-01-09 00:068:3       2010-01-09 00:03:31       moton         1       2010-01-09 00:01:010       2010-01-09 00:01:08       moton         1       2010-01-09 00:11:01       2010-01-09 00:11:08       moton         1       2010-01-09 00:11:30       2010-01-09 00:11:15       moton         1       2010-01-09 00:14:48       2011-01-09 00:15:34       moton         1       2010-01-09 00:15:45       2010-01-09 00:15:43       moton         1       2010-01-09 01:24:11       2010-01-09 02:46:11       manalal         1       2010-01-09 01:72:92       2010-01-09 01:545       moton         2       2010-01-09 01:72:92       2010-01-09 01:55       manalal         1       2010-01-09 00:132       2010-01-09 00:153       moton         2       2010-01-09 00:132       2010-01-09 00:150       moton         2       2010-01-09 00:03:12       2010-01-09 00:150       moton         2       2010-01-09 00:152       2010-01-09 00:150       moton         2       2010-01-09 00:152       2010-01-09 00:150       moton         2       2010-01-09 00:152       2010-01-09 00:150       moton         2       2010-01-09 00:153       2010-01-09 00:253       moton         2		1	2010-01-09 00:03:28	2010-01-09 01:24:11	manual					
1         2010-01-09 00:11:30         2010-01-09 00:12:15         motion           1         2010-01-09 00:14:48         2010-01-09 00:15:43         motion           1         2010-01-09 00:15:45         2010-01-09 00:15:43         motion           1         2010-01-09 00:15:45         2010-01-09 00:15:40         motion           1         2010-01-09 00:15:45         2010-01-09 00:15:45         motion           1         2010-01-09 00:15:45         2010-01-09 00:15:45         motion           1         2010-01-09 00:12:41         2010-01-09 00:15:45         motion           2         2010-01-09 00:12:41         2010-01-09 00:05:26         motion           2         2010-01-09 00:05:18         2010-01-09 00:05:17         motion           2         2010-01-09 00:05:12         2010-01-09 00:25:12         motion           2         2010-01-09 00:21:54         2010-01-09 00:25:03         motion           2         2010-01-09 00:21:54         2010-01-09 00:25:03         motion           2         2010-01-09 00:21:54         2010-01-09 00:25:54         motion           2         2010-01-09 00:21:54         2010-01-09 00:25:43         motion           2         2010-01-09 00:25:12         2010-01-09 00:25:43         motion		1	2010-01-09 00:08:36	2010-01-09 00:09:31	motion	Sur	Mon	Tue W	led Thu	En :
1       2010-01-09 00:1543       moton         1       2010-01-09 00:1545       2010-01-09 00:1543       moton         1       2010-01-09 00:1545       2010-01-09 00:1543       moton         1       2010-01-09 00:1545       2010-01-09 02:46:11       manual         1       2010-01-09 02:46:11       2010-01-09 02:46:11       manual         1       2010-01-09 00:1261       2010-01-09 02:1512       manual         2       2010-01-09 00:02:18       2010-01-09 00:01:53       moton         2       2010-01-09 00:02:18       2010-01-09 00:01:07       2010-01-09 00:01:01         2       2010-01-09 00:03:02       2010-01-09 00:15:03       moton         2       2010-01-09 00:03:02       2010-01-09 00:15:03       moton         2       2010-01-09 00:21:54       2010-01-09 00:25:12       moton         2       2010-01-09 00:21:54       2010-01-09 00:25:54       moton         2       2010-01-09 00:25:54       2010-01-09 00:25:54       moton         2       2010-01-09 00:26:67       2010-01-09 00:25:54       moton         2       2010-01-09 00:21:51       2010-01-09 00:25:54       moton         2       2010-01-09 00:25:51       2010-01-09 00:25:54       moton         2		1	2010-01-09 00:10:10	2010-01-09 00:10:58	motion	3	4	5	6 7	8
1       20100109 00:1545       20100109 00:1545       1000109 00:1545         1       20100109 00:1545       20100109 00:2545       20100109 00:2545       1000109 00:2545         1       20100109 00:1545       20100109 00:2545       manalal       Channel         1       20100109 00:1545       20100109 00:1545       manalal         1       20100109 00:152       20100109 00:1545       manalal         2       20100109 00:152       20100109 00:152       manalal         2       20100109 00:01:07       20100109 00:01:07       manalal         2       20100109 00:01:07       20100109 00:01:07       moton         2       20100109 00:01:02       20100109 00:01:02       moton         2       20100109 00:01:50       moton       w Ø 9 11 0 11 1 w         2       20100109 00:01:50       moton       w Ø 11 w Ø 19 w Ø         2       20100109 00:01:50       moton       w Ø 11 w Ø 19 w Ø         2       20100109 00:01:50       moton       w Ø 211 w Ø 22 w Ø         2       20100109 00:01:50       moton       w Ø 211 w Ø 22 w Ø         2       20100109 00:01:50       moton       w Ø 21 w Ø 20 w Ø 01         2       20100109 00:02:51       20100109 00:02:54       moton		1	2010-01-09 00:11:30	2010-01-09 00:12:15	motion	10				
1     2010-01-09 00:15×45     2010-0149 00:17:09     moton       1     2010-01-09 01:2×11     2010-0149 00:2+651     manual       1     2010-01-09 01:2×11     2010-0149 00:2+651     manual       1     2010-01-09 01:2×12     2010-0149 00:15×51     manual       2     2010-01-09 00:01:07     2010-0149 00:01:53     moton       2     2010-01-09 00:03:01     2010-0149 00:01:53     moton       2     2010-01-09 00:32:12     2010-0149 00:01:53     moton       2     2010-01-09 00:32:12     2010-0149 00:54:27     manual       2     2010-01-09 00:31:22     2010-0149 00:51:30     moton       2     2010-01-09 00:21:54     2010-0149 00:25:33     moton       2     2010-01-09 00:21:54     2010-01-09 00:25:34     moton       2     2010-01-09 00:25:12     2010-01-09 00:25:43     moton       2     2010-01-09 00:25:51     2010-01-09 00:25:43     moton       2     2010-01-09 00:25:52     2010-01-09 00:25:43     moton		1	2010-01-09 00:14:48	2010-01-09 00:15:43	motion					
□       1       2010-01-09 01:24:11       2010-01-09 02:45:11       manual         □       1       2010-01-09 02:45:11       2010-01-09 02:45:11       manual         □       1       2010-01-09 02:45:11       2010-01-09 02:45:11       manual         □       2       2010-01-09 00:21:28       2010-01-09 00:03:10       motion         □       2       2010-01-09 00:03:12       2010-01-09 00:03:10       motion         □       2       2010-01-09 00:03:22       2010-01-09 00:03:10       motion         □       2       2010-01-09 00:03:22       2010-01-09 00:35:27       manual         □       2       2010-01-09 00:21:54       2010-01-09 00:25:34       motion         □       2       2010-01-09 00:21:54       2010-01-09 00:25:43       motion         □       2       2010-01-09 00:25:12       2010-01-09 00:25:43       motion         □       2       2010-01-09 00:25:12       2010-01-09 00:25:43       motion         □       2       2010-01-09 00:25:12       2010-01-09 00:25:43       motion		1	2010-01-09 00:15:45	2010-01-09 00:17:09	motion			26	2/ 28	29
1     2010-01-09 02:46:11     2010-01-09 02:19:45     manual       1     2010-01-09 00:20:167     2010-01-09 00:17:57:12     manual       2     2010-01-09 00:00:167     2010-01-09 00:01:33     moton       2     2010-01-09 00:00:01     2010-01-09 00:01:30     moton       2     2010-01-09 00:00:301     2010-01-09 00:01:12     moton       2     2010-01-09 00:03:01     2010-01-09 00:51:27     manual       2     2010-01-09 00:01:32     2010-01-09 00:51:30     moton       2     2010-01-09 00:21:54     2010-01-09 00:25:30     moton       2     2010-01-09 00:21:54     2010-01-09 00:25:35     moton       2     2010-01-09 00:25:12     2010-01-09 00:25:43     moton       2     2010-01-09 00:25:12     2010-01-09 00:25:44     moton       2     2010-01-09 00:25:52     2010-01-09 00:25:44     moton		1	2010-01-09 01:24:11	2010-01-09 02:46:11	manual					
1         2010-01-09 1739:52         2010-01-09 1757:12         manual           2         2010-01-09 00:10:07         2010-01-09 00:01:07         2010-01-09 00:01:07           2         2010-01-09 00:02:13         2010-01-09 00:02:01         motion           2         2010-01-09 00:03:01         2010-01-09 00:05:01         motion           2         2010-01-09 00:03:01         2010-01-09 00:05:02         motion           2         2010-01-09 00:14:22         2010-01-09 00:15:03         motion           2         2010-01-09 00:21:54         2010-01-09 00:22:55         motion           2         2010-01-09 00:21:51         2010-01-09 00:25:35         motion           2         2010-01-09 00:21:51         2010-01-09 00:25:43         motion           2         2010-01-09 00:25:12         2010-01-09 00:25:44         motion           2         2010-01-09 00:25:67         2010-01-09 00:25:44         motion		1	2010-01-09 02:46:11	2010-01-09 03:19:45	manual		-			
2         2010-01-09 00:02:18         2010-01-99 00:02:133         11000n           2         2010-01-09 00:02:18         2010-01-99 00:02:10         motion           2         2010-01-09 00:02:18         2010-01-99 00:02:10         motion           2         2010-01-09 00:02:18         2010-01-99 00:02:12         motion           2         2010-01-09 00:02:12         2010-01-99 00:15:03         motion           2         2010-01-09 00:21:54         2010-01-99 00:25:10         motion           2         2010-01-09 00:21:54         2010-01-99 00:25:14         motion           2         2010-01-09 00:25:12         2010-01-99 00:25:54         motion           2         2010-01-09 00:25:12         2010-01-99 00:25:43         motion           2         2010-01-99 00:25:12         2010-01-99 00:25:443         motion		1	2010-01-09 17:39:52	2010-01-09 17:57:12	manual		-			
□         2         2010-01-09 00:03:01         2010-01-09 00:04:12         moton         □         □         2         2010-01-09 00:03:32         2010-01-09 00:04:12         manal           □         2         2010-01-09 00:03:32         2010-01-09 00:04:27         manal         □         □         □         □         2         2010-01-09 00:14:22         2010-01-09 00:22:35         moton         □         □         2         2010-01-09 00:23:51         2010-01-09 00:24:33         moton           □         2         2010-01-09 00:25:14         2010-01-09 00:25:54         moton         □         □         2         2010-01-09 00:25:43         moton           □         2         2010-01-09 00:25:57         2010-01-09 00:25:43         moton         □         □         2/2 9/30         □         □         2/2 9/30         □         □         □         2/2 9/30         □         □         □         2/2 9/30         □         □         □         2/2 9/30         □         □         □         □         □         2/2 10-01-09 00:26:43         moton         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □		2	2010-01-09 00:01:07	2010-01-09 00:01:53	motion		√ 5	✓ 6	√7	~
2         2010-01-09 00:03:22         2010-01-09 00:54:27         manual         \(\not\) \(\no\) \(\no\		2	2010-01-09 00:02:18	2010-01-09 00:03:01	motion		₹9	✓ 10	0 🖌 11	-
2         2010-01-09 00:14:22         2010-01-09 00:15:03         moton           2         2010-01-09 00:21:54         2010-01-09 00:22:5         moton           2         2010-01-09 00:23:51         2010-01-09 00:25:43         moton           2         2010-01-09 00:25:54         2010-01-09 00:25:54         moton           2         2010-01-09 00:26:57         2010-01-09 00:25:54         moton		2	2010-01-09 00:03:01	2010-01-09 00:04:12	motion		13	3 1/	4 15	5 🗸
□         2         2010-01-09 00:14:22         2010-01-09 00:15:03         moton           □         2         2010-01-09 00:21:54         2010-01-09 00:22:55         moton           □         2         2010-01-09 00:21:54         2010-01-09 00:25:12         2010-01-09 00:25:54         moton           □         2         2010-01-09 00:25:52         2010-01-09 00:25:54         moton         ✓		2	2010-01-09 00:03:32	2010-01-09 00:54:27	manual		11	7 🖌 1	8 10	
2         2010-01-09 00:21:54         2010-01-09 00:22:35         motion           2         2010-01-09 00:23:51         2010-01-09 00:24:33         motion           2         2010-01-09 00:25:12         2010-01-09 00:25:54         motion           2         2010-01-09 00:25:57         2010-01-09 00:25:43         motion		2	2010-01-09 00:14:22	2010-01-09 00:15:03	motion					
2         20100109 002512         20100109 002553         motion           2         20100109 002512         20100109 002554         motion           2         20100109 002557         20100109 002554         motion		2	2010-01-09 00:21:54	2010-01-09 00:22:35	motion		_			
2         2010-01-09 00:26:57         2010-01-09 00:28:43         motion		2	2010-01-09 00:23:51	2010-01-09 00:24:33	motion		✓ 25	5 20	5 🖌 27	~
		2	2010-01-09 00:25:12	2010-01-09 00:25:54	motion		29	9 🖌 30	0 🖌 31	<ul> <li>✓</li> </ul>
2 2010-01-09 00:31:48 2010-01-09 00:32:30 motion		2	2010-01-09 00:26:57	2010-01-09 00:28:43	motion					
		2	2010-01-09 00:31:48	2010-01-09 00:32:30	motion					

Fig 8-7 File Management Interface

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.

#### 8.5.2 Remote Backup

Click "Backup" button to go to backup interface. Refer to Fig 8-8.

		LIVE	SEARCH	BACKUP	CONFIG	т	OOLS	INFO
ata List								_
Check	СН	Start Time	End Time		Status		2	
	1	2013-10-09 22:16:36	2013-10-10 00:32:16				Sear	ch
	1	2013-10-10 00:32:16	2013-10-10 02:47:51				Sea	u
	1	2013-10-10 02:47:51	2013-10-10 05:03:32					
	1	2013-10-10 05:03:32	2013-10-10 07:18:54					
	1	2013-10-10 07:18:54	2013-10-10 09:32:45				Start Time	
	1	2013-10-10 09:34:19	2013-10-10 09:36:08				2013-10-1	-
	1	2013-10-10 09:39:34	2013-10-10 10:51:16				00 : 00 :	00
	2	2013-10-09 23:51:55	2013-10-10 00:00:04				End Time	
	2	2013-10-10 00:00:04	2013-10-10 00:08:14				2013-10-	10 25
	2	2013-10-10 00:08:14	2013-10-10 00:16:20				23 : 59 :	59
	2	2013-10-10 00:16:20	2013-10-10 00:24:29					
	2	2013-10-10 00:24:29	2013-10-10 00:32:35					
	2	2013-10-10 00:32:35	2013-10-10 00:40:44			Channe	el 🛛	
	2	2013-10-10 00:40:44	2013-10-10 00:48:53				1 2	¥3 ¥
	2	2013-10-10 00:48:53	2013-10-10 00:57:00				√5 √6	7 7
	2	2013-10-10 00:57:00	2013-10-10 01:05:08				79 ¥10	☑) 11 ☑
	2	2013-10-10 01:05:08	2013-10-10 01:13:17					
	2	2013-10-10 01:13:17	2013-10-10 01:21:25				13 🗹 14	¥15 ¥
	2	2013-10-10 01:21:25	2013-10-10 01:29:33				17 🗹 18	19 🗹
	2	2013-10-10 01:29:33	2013-10-10 01:37:40				21 22	23 🖌
All	Inverse	1/61					25 26	27 2
ile Path				Browse	Backup		29 🗹 30	¥31 ¥

Fig 8-8 Remote Backup Interface

① 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 path. Then click "Backup" button to start backup. The backup files will be saved on user's PC.

## 8.6 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 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 as Fig 8-9.

		U	IVE	SEARCH	BACK	JP	CONFIG	TOOLS	INF
Local config									
-24 									
Basic								Apply	Default
-	Local Co	nfig							
Live	Local V	lew							
-	Snap Pa	th		D:\Documents					Browse
Record	Snap An			1					
5 Schedule	Remote	e Playback							
5 Schedule	Snap Pa			D:\Documents					Browse
<u>k</u>	Snap An			1					
Alarm	Local R								
	Save Par			D:\Documents					Browse
Metwork	Record 0								
		✓ 1	✓ 2	☑ 3	₹4	✓ 5	. €	7	₹8
IP Camera		9	<b>1</b> 0	☑ 11	12	☑ 13	☑ 14	15	16
		17	18	19	20	21	22	23	24
Users	V	25	26	27	28	29	<b>√</b> 30	₹ 31	₹ 32
	Audio C		26	27	28	29	₩ 30	31	32
Users			26	27	28	29	230	231	₩32
	Audio Cl	hannel							1
	Audio O	hannel	2	3	4		6	7	8
	Audio O	hannel	2 10	3	4	5	6	7	8

Fig 8-9 Remote System Configuration

The sub menu list and the options in every menu are similar to that of the NVR. Please refer to Main Menu Setup Guide for more details.

### 8.7 Tools

Click on tool's tab to access the disk management tool. You can view the status of the HDD, change/view the read/write properties and can also format the HDD remotely.

## 8.8 Remote Information

The Info tab provides a web based interface to access the general information pertaining to the NVR's settings. It includes five submenus: System, Event, Log, Network and Online users. The sub menu list and the options in every menu are similar to that of the NVR. Please refer to system information for more details.

		LIVE	SEARCH	BACKUP	CONFIG	TOOLS	INFO
	System	Log List					
		Type	User Name	Time	IP Address		
8	Event	File Management	admin	2012-03-27 10:54:34	192.168.0.1	Start Time	
~		Event Search	admin	2012-03-27 10:52:45	192.168.0.1	2012-03-27	25
	Log	Event Search	admin	2012-03-27 10:52:45	192.168.0.1	00 : 00 : 00	
3	LOg	Stop	admin	2012-03-27 10:52:38	192.168.0.1	End Time	
_		Play	admin	2012-03-27 10:39:05	192.168.0.1	2012-03-27	25
	Network	Time Search	admin	2012-03-27 10:34:44	192.168.0.1	23 : 59 : 59	
		Logon	admin	2012-03-27 10:21:47	192.168.0.1		
22	Online Users	Logoff	admin	2012-03-27 09:52:37	192.168.0.1	System Control	
•••	Offinite Oberb	Logon	admin	2012-03-27 09:51:55	192.168.0.1		
		Check Network Status	admin	2012-03-27 09:49:38	127.0.0.1	Config	
		IPCamera Connnected	system	2012-03-27 00:12:12	192.168.20.205	Playback	
		IPCamera Connnected	system	2012-03-27 00:12:11	192.168.20.201	Backup	
		IPCamera DisConnected	system	2012-03-27 00:12:11	192.168.20.201	Media Search	
		IPCamera Connnected	system	2012-03-27 00:12:11	192.168.20.215	View Information	
		IPCamera DisConnected	system	2012-03-27 00:12:11	192.168.20.215		
		1/1 Export Path				Error	
				Browse	Export		

Fig 8-10 Remote Information Search

**Note:** There may be slight 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 can't the NVR turn on even 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 NVR. Please use the power adaptor supplied along with the NVR.

c. It could be a hardware problem.

#### Q2. There is no menu displayed, why?

a. Check whether the monitor is connected to the main video out. The monitor might be connected to VGA port whereas the NVR may be set for output through HDMI. Long press Exit key to toggle the output modes.

#### Q3. The NVR LED turns on, however there is no output. Why?

a. The power from the adapter may be not enough for operating the NVR. Please use the power adaptor supplied along with the NVR.

b. It could be a wiring issue. Please check the connection for the same.

c. Check the monitor settings.

#### Q4. Why are no images displayed on few or all the channels of the NVR?

a. It could be a wiring issue. Please check the cable and the ports of the cameras.

b. The problem can also be related to cameras. Please check the same.

c. Please make sure that you have added and enabled the cameras.

#### Q5. Why can't I find the HDD?

a. The power from the adapter may be not enough for operating the NVR. Please use the power adaptor supplied along with the NVR.

b. It could be a wiring issue. Please check the power and data cables of the HDD.

c. The HDD could have gone bad. Change a new one.

#### Q6. Why is there no video recorded?

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 Record Configuration for more details.

c. Maybe HDD is full and thus the NVR is not able to record. Check HDD information from Disk management and if required, please enable the recycle function.

d. Check the attributes of the HDD. It might be set to read only mode.

e. The HDD could have gone bad. Please change another one.

#### Q7. Mouse does not work. How can I do?

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

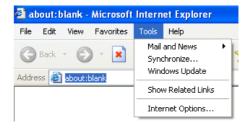
b. After connecting the mouse, allow the NVR to detect the mouse for seconds. If not detected, try restarting the NVR.

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

#### Q8. ActiveX control cannot be downloaded. How can I do?

a. IE browser blocks ActiveX control. Please do setup as per the steps mentioned below.

① Open IE browser. Click Tools-----Internet Options.



2 Select Security-----Custom Level....Refer to Fig 8-1.

- ③ Enable all the sub options under "ActiveX controls and plug-ins". Refer to Fig 8-2.
- 4 Then click OK to finish setup.
- b. Other plug-ins or anti-virus may block ActiveX. Please disable or do the required settings.

Internet Options	Security Settings
General Security Privacy Content Connections Programs Advanced	Settings:
Select a Web content zone to specify its security settings.	Enable
	Download signed ActiveX controls      Disable
Internet Local intranet Trusted sites Bestricted	Enable
sites	Prompt
Internet	Download unsigned ActiveX controls
This zone contains all Web sites you Sites	
Maven ( placed in other zones	Prompt
Security level for this zone	Initialize and script ActiveX controls not marked as safe
	Disable
Custom Custom settings.	Enable
To change the settings, click Custom Level.	Prompt
<ul> <li>To use the recommended settings, click Default Level.</li> </ul>	
	Reset custom settings
Custom Level Default Level	Reset to: Medium 🛛 Reset
OK Cancel Apply	OK Cancel
Fig 8-1	Fig 8-2

#### Q9: NVR displays "please wait..." all the time. Why and how can I do?

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 NVR 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.

#### Q10: How to input password and numbers in the interface?

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.

# Q11: A hard disk is being identified as a new device however it was being used with another NVR of same model. Should it be formatted prior to use?

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

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

#### Q12: What is the minimum configuration required for remote monitoring?

# Q13: 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 Fig 13-1); 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 Fig 13-2), select Run as administrator to run browser.



Fig 13-1



Q14. How to play the backup file?

a. 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

SuperPlay Windows Ir 872 KB

and backup player. Double click I icon to install backup player.

b. 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.



Super Player	de Help								<u>اللار</u>
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				Searc	h Setting		ent List		
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a little				4	March,	2012	<b>P</b>		
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				11 12 18 19	13 14 20 21				
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				1 2	3 4	5 6	7		
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## Appendix B Calculate Recording Capacity

You can calculate the size of hard disk according to the storage time and NVR recording settings. The formula is as follows in full frame rate condition. Used space per hour (MB/h) = Bitrate(kbps)  $\div 8 \times 3600 \div 1024$ . The below are the details at different settings.

Resolution	Frame Rate	Bit Rate (kbps)	Used Space(MB/h)
	0P 30fps (NTSC)	12M	5400
		10M	4500
10005		8M	3150
1080P		6M	2700
		4M	1800
		2M	900

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 sets resolution to1080P, frame rate to 15fps, bitrate to 4M and enables total 4 channels. He wants the unit to record continuously in a month. Below is the calculation:

# Total Recoding capacity = 900(mb/h) × 24(hours/day) × 30(days) × 4 (channels) = 2592000 (MB) ≈ 2531 (GB)

Therefore, customers just install two SATA HDDs with 1.5TB for one month recording.

## Appendix C Compatible Devices

#### 1. Compatible USB drive after test.

Brand	Capacity
SSK	2GB
Netac	4GB
Kingston	2GB/8GB/16GB/32GB
Aigo	2GB
Smatter vider	1GB
SanDisk	4GB/8GB/16GB/32GB

#### 2. Compatible SATA CD/DVD writers after test.

Brand	Model	
TECLAST	GH22NP20/TL-22XD	
BENQ	DW220S-0K4	
LITEON	DH—20A6S01C	
LITEON	DH-20A4P02C	
SAMSUNG	TS-H653B	

#### 3. 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	
Western Digital	160G/250G/320G /1.5T/2TB/3TB	
Samsung HD161HJ	160G	

# Appendix D Specifications

Compression Format	H.264		
Video Output	VGA $\times 1$ ; HDMI $\times 1$		
IP Input	3MP/1080P/960P/720P/D1@ 30fps		
HDMI/VGA Resolution	1280 ×1024 / 1024 ×768 / 800 ×600		
Record Resolution	3MP, 1080P, 960P, 720P, D1		
Audio Input	$RCA \times 1$		
Audio Output	$RCA \times 1$		
Alarm Input	NO or NC 16 CH		
Alarm Output	4 CH		
Record Mode	Manual / Sensor /Timer / Motion detection		
Simplex/Duplex/Triplex	Pentaplex		
Common Network Port	RJ45 ×1		
PoE Network Port	RJ45 $\times 16$		
Communication Interface	RS485, USB3.0 $\times$ 1; USB2.0 $\times$ 1 (one for backup, another for USB mouse)		
	SATA $\times$ 4 + DVD-RW $\times$ 1 or	SATA $\times 2 + DVD-RW \times 1$ or	
Disk Info	SATA $\times 8$ ; ESATA $\times 1$	SATA $\times 4$ ; ESATA $\times 1$	
Remote Controller	YES		
Power Supply	ATX		
Power Consumption	< 30W (without HDD)		
Temperature	-10°C-55°C		
Humidity	10%-90%		

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