For H.264 4/8/16-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 4/8/16-channel network video recorders. All examples and pictures used in the manual are from 4-channel NVR.

Contents

1	Introduction	1
1.	1 NVR Introduction	. 1
1.	2 Main Features	. 1
2	Hardware Installation	3
_	1 Install Hard Drive &DVD Writer	
	2.1.1 Install Hard Drive	
	2.1.2 Install DVD Writer	
	2 Front Panel Descriptions	
	3 Rear Panel Instructions	
	4 Remote Controller	
	5 Control with Mouse	
	2.5.1 Connect Mouse	
	2.5.2 Use Mouse	
	Basic Function Instruction	
	1 Startup and Shutdown	
	3.1.1 Startup	
	3.1.2 Shutdown	
	2 Login	
	3 Live preview	
	4 Live playback	
5.	+ Live playback	
4	Add IP Cameras	
5	Main Menu Setup Guide	15
5 5.	Main Menu Setup Guide Basic configuration	15 16
5 5.	Main Menu Setup Guide 1 Basic configuration 5.1.1 System	15 16 16
5 5.	Main Menu Setup Guide 1 Basic configuration 5.1.1 System 5.1.2 Date & Time	15 16 16 17
5 5.	Main Menu Setup Guide 1 Basic configuration 5.1.1 System 5.1.2 Date & Time 5.1.3 DST	15 16 16 17 17
5 5.	Main Menu Setup Guide 1 Basic configuration 5.1.1 System 5.1.2 Date & Time 5.1.3 DST 2 Live Configuration	15 16 16 17 17 18
5 5.	Main Menu Setup Guide 1 Basic configuration 5.1.1 System 5.1.2 Date & Time. 5.1.3 DST 2 Live Configuration 5.2.1 Live	 15 16 17 17 18 18
5 5. 5.	Main Menu Setup Guide 1 Basic configuration 5.1.1 System 5.1.2 Date & Time. 5.1.3 DST 2 Live Configuration 5.2.1 Live 5.2.2 Main Monitor	 15 16 17 17 18 19
5 5. 5.	Main Menu Setup Guide 1 Basic configuration 5.1.1 System 5.1.2 Date & Time. 5.1.3 DST 2 Live Configuration 5.2.1 Live 5.2.2 Main Monitor 5.2.3 Mask	 15 16 17 17 18 18 19 19
5 5 . 5 . 5 .	Main Menu Setup Guide 1 Basic configuration 5.1.1 System 5.1.2 Date & Time 5.1.3 DST 2 Live Configuration 5.2.1 Live 5.2.2 Main Monitor 5.2.3 Mask 3 Record Configuration	 15 16 17 17 18 19 19 20
5 5 . 5 .	Main Menu Setup Guide 1 Basic configuration 5.1.1 System 5.1.2 Date & Time. 5.1.3 DST 2 Live Configuration 5.2.1 Live 5.2.2 Main Monitor 5.2.3 Mask. 3 Record Configuration 5.3.1 Enable	 15 16 17 17 18 19 19 20 20
5 5 . 5 .	Main Menu Setup Guide 1 Basic configuration 5.1.1 System 5.1.2 Date & Time. 5.1.3 DST 2 Live Configuration 5.2.1 Live 5.2.2 Main Monitor 5.2.3 Mask. 3 Record Configuration 5.3.1 Enable. 5.3.2 Record Bitrate	 15 16 17 17 18 19 19 20 21
5 5 . 5 .	Main Menu Setup Guide 1 Basic configuration 5.1.1 System 5.1.2 Date & Time. 5.1.3 DST 2 Live Configuration 5.2.1 Live 5.2.2 Main Monitor 5.2.3 Mask. 3 Record Configuration 5.3.1 Enable 5.3.2 Record Bitrate 5.3.3 Time.	 15 16 17 17 18 19 19 20 21 22
5 5 . 5 .	Main Menu Setup Guide 1 Basic configuration 5.1.1 System 5.1.2 Date & Time. 5.1.3 DST 2 Live Configuration 5.2.1 Live 5.2.2 Main Monitor 5.2.3 Mask 3 Record Configuration 5.3.1 Enable 5.3.2 Record Bitrate 5.3.3 Time. 5.3.4 Stamp.	 15 16 17 17 18 19 19 20 21 22 22
5 5 . 5 .	Main Menu Setup Guide 1 Basic configuration 5.1.1 System 5.1.2 Date & Time. 5.1.3 DST 2 Live Configuration 5.2.1 Live 5.2.2 Main Monitor 5.2.3 Mask 3 Record Configuration 5.3.1 Enable 5.3.2 Record Bitrate 5.3.3 Time. 5.3.4 Stamp. 5.3.5 Recycle Record	 15 16 17 17 18 19 20 21 22 22 23
5 5 . 5 . 5 .	Main Menu Setup Guide 1 Basic configuration 5.1.1 System 5.1.2 Date & Time. 5.1.3 DST 2 Live Configuration 5.2.1 Live 5.2.2 Main Monitor 5.2.3 Mask. 3 Record Configuration 5.3.1 Enable. 5.3.2 Record Bitrate 5.3.3 Time. 5.3.4 Stamp. 5.3.5 Recycle Record 4 Schedule Configuration	 15 16 17 17 18 19 19 20 20 21 22 22 23 23
5 5 . 5 .	Main Menu Setup Guide 1 Basic configuration 5.1.1 System 5.1.2 Date & Time 5.1.3 DST 2 Live Configuration 5.2.1 Live 5.2.2 Main Monitor 5.2.3 Mask 3 Record Configuration 5.3.1 Enable 5.3.2 Record Bitrate 5.3.3 Time 5.3.4 Stamp 5.3.5 Recycle Record 4 Schedule Configuration	 15 16 17 17 18 19 19 20 20 21 22 23 23 23
5 5. 5. 5.	Main Menu Setup Guide 1 Basic configuration 5.1.1 System 5.1.2 Date & Time 5.1.3 DST 2 Live Configuration 5.2.1 Live 5.2.2 Main Monitor 5.2.3 Mask. 3 Record Configuration 5.3.1 Enable 5.3.2 Record Bitrate 5.3.3 Time. 5.3.4 Stamp. 5.3.5 Recycle Record 4 Schedule Configuration 5.4.1 Schedule 5.4.2 Motion Schedule	15 16 17 17 18 19 20 20 21 22 23 23 23 23 24
5 5 . 5 .	Main Menu Setup Guide 1 Basic configuration 5.1.1 System 5.1.2 Date & Time 5.1.3 DST 2 Live Configuration 5.2.1 Live 5.2.2 Main Monitor 5.2.3 Mask 3 Record Configuration 5.3.1 Enable 5.3.2 Record Bitrate 5.3.3 Time 5.3.4 Stamp 5.3.5 Recycle Record 4 Schedule Configuration	15 16 17 18 19 19 20 21 22 23 23 23 23 23 24 25

5.5.1 Sensor Alarm	25
5.5.2 Motion Alarm	27
5.5.3 Other Alarm	28
5.5.4 Alarm Out	28
5.6 Network Configuration	29
5.6.1 Network	29
5.6.2 Email	30
5.6.3 Server	31
5.6.4 Other Settings	31
5.7 User Management Configuration	33
5.8 Advanced	34
5.8.1 Reset	34
5.8.2 Import/Export	34
5.8.3 Block/Allow List	35
6 Search, Playback & Backup	36
6.1 Time Search	
6.2 Event Search	
6.3 File Management	
6.4 Backup	
•	
7 Manage NVR 7.1 Check System Information	
•	
7.1.1 System Information 7.1.2 Event Information	
7.1.3 Log Information	
7.1.4 Network Information	
7.1.5 Online Information	
7.3 Disk Management	
7.4 Upgrade	
7.5 Logoff	
8 Remote Surveillance	
8.1 IE Remote Surveillance	
8.1.1 On LAN	
8.1.2 On WAN	
8.2 Remote Surveillance through Apple PC	
8.2.1 On LAN	
8.2.2 On WAN	
8.3 Remote Preview	
8.4 Remote Playback & Backup	46
8.4.1 Remote Playback	
8.4.2 Remote Backup	
8.5 Remote System Configuration	
8.6 Tools	50

8.7 Remote	7.7 Remote Information		
Appendix A	FAQ	51	
Appendix B	Calculate Recording Capacity	55	
Appendix C	Compatible Devices	56	
	4-CH Specifications		
Appendix E	8-CH Specifications	58	
	16-CH Specifications		
I I	L		

1 Introduction

1.1 NVR Introduction

This series of devices are standard 4/8/16 CH real-time 1080P/720P/D1 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 4/8/8 PoE network ports, supporting 4/8/8 direct connection to NVR, simultaneous 4/8/16 playback, and HDMI 1080 P 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/CVBS/ VGA output
- 4 CH NVR supports 4 CH 1080P @15fps or 2 CH 1080P @ 30 fps or 4 CH 720P@ 30fps IP video input
- 8 CH NVR supports 8 CH 1080@15fps or 4CH 1080P @ 30 fps or 8 CH 720P@ 30fps IP video input
- 16 CH NVR supports 16 CH 1080@15fps or 8CH 1080P @ 30 fps or 16 CH 720P@ 30fps 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 two 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 1080P/720P/VGA recording
- Resolution, frame rate and picture quality are adjustable
- Two record search mode: time search and event search.
- Support 4/8/16 screen playback simultaneously
- Support deleting and locking the recorded files one by one

• Support remote playback in Network Client through LAN or internet

ALARM

- 1 alarm input for every video channel and 1 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, events unlimited

NETWORK

- Support TCP/IP, DHCP, PPPoE, DDNS protocol
- Support IE browser to do remote view
- Support setup client connection amount

• 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 supports two SATA hard drives. 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".

Step1: Unscrew and Open the top cover.

Step2: Connect the power and data cables. Place the HDD onto the bottom case as Fig 2-1. Step3: Screw the HDD as Fig 2-2.



Fig 2-1 Connect HDD



Fig 2-2 Screw HDD

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

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.

Step1: Unscrew and Open the top cover.

Step2: Connect the power and data cables. Place the DVD writer onto the bottom case as Fig 2-3.

Step3: Screw the DVD writer as Fig 2-4.



Fig 2-3 Connect the DVD Writer

Fig 2-4 Screw the Writer

2.2 Front Panel Descriptions

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

Туре	Name	Description				
	Power	The power indicator turns blue when DVR is powered up.				
	HDD	The light turns blue when HDD is writing and reading.				
Work	Net	The light turns blue when it is able to access the network.				
state indicator	Backup	The light turns blue when backing up files and data.				
indicator	Play	The light turns blue when playing video.				
	REC	The light turns blue when recording.				
	Number 1~9	Input number 1~9 or choose camera				
	MENU/+	1. Enter menu in live 2. Increase the value in setup				
	BACKUP/-	1. Decrease the value in setup 2. Enter backup mode in live				
Function	0/10+	Input number 0, 10, and the above number together with other digital keys				
button	Focus	1. Record manually 2. FOCUS function enables at PTZ mode.				
	Speed	1. Rewind key 2. SPEED function enables at PTZ mode				
	IRIS	1. Enter play interface 2. IRIS function enables at PTZ mode				
	P.T.Z	1. Fast forward 2. Enter PTZ mode in live				
	Direction button	Change direction to select items.				
Input	Multi-screen	Change screen display mode like1/4/8 channel.				
button	Enter button	Confirm selection.				
IR receiver	IR	For remote controller				
USB USB port		To connect external USB devices like USB flash, USB HDD for backup or update firmware; or connect to USB mouse.				

2.3 Rear Panel Instructions

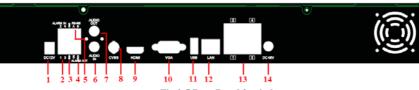


Fig 2-5 Rear Panel for 4-ch

Item	Name	Description			
1	DC12V	Power input			
2	Alarm in	Alarm Inputs for connecting sensors			
3	GND	Grounding			
4	Alarm Out	Relay Output. Connect to external alarm.			
5	RS485	Connect to Keyboard, A is TX+, B is TX-			
6	Audio in	1 CH audio input			
7	Audio out	Audio output, connect to the sound box			
8	CVBS port	Connect to monitor			
9	HDMI port	Connect to high-definition display device			
10	VGA port	VGA output, connect to monitor			
11	USB port	Connect to external USB devices like USB flash, USB HDD for backup or update firmware; or connect to USB mouse			
12	LAN	Network port			
13	PoE	PoE network ports; connect to 4 CH IP cameras with PoE function			
14	DC48V	PoE power supply port			

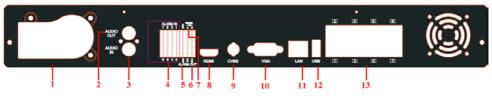


Fig 2-6 Rear Panel for 8-ch

Item	Name	Description
1	Power input	AC 110V/220V
2	Audio out	Audio output, connect to the sound box
3	Audio in	1 CH audio input
4	Alarm in	Alarm Inputs for connecting sensors
5	GND	Grounding
6	Alarm Out	Relay Output. Connect to external alarm.
7	RS485	Connect to Keyboard, A is TX+, B is TX-
8	HDMI port	Connect to high-definition display device
9	CVBS port	Connect to monitor

Item	Name	Description
10	VGA port	VGA output, connect to monitor
11	LAN	Network port
12	USB port	Connect to external USB devices like USB flash, USB HDD for backup or update firmware; or connect to USB mouse
13	РоЕ	PoE network ports; connect to 8CH IP cameras with PoE function

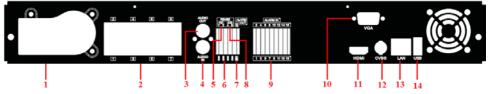


Fig 2-7 Rear Panel for 16-ch

Item	Name	Description
1	Power input	AC 110V/220V
2	РоЕ	PoE network ports; connect to 8CH IP cameras with PoE function
3	Audio out	Audio output, connect to the sound box
4	Audio in	1 CH audio input
5	Y/Z	Connect to speed dome (unavailable)
6	GND	Grounding
7	Alarm Out	Relay Output. Connect to external alarm.
8	K/B	Connect to Keyboard, A is TX+, B is TX-
9	Alarm in	Alarm Inputs for connecting sensors
10	VGA port	VGA output, connect to monitor
11	HDMI port	Connect to high-definition display device
12	CVBS port	Connect to monitor
13	LAN	Network port
14	USB port	Connect to external USB devices like USB flash, USB HDD for backup or update firmware; or connect to USB mouse

2.4 Remote Controller

It uses two AAA size batteries.

- Open the battery cover of the Remote Controller.
- Place batteries. Please take care of the polarity (+ and -).
- Replace the battery cover.

The interface of remote controller is shown in Fig 2-8 Remote Controller.



Button	Function				
O 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 enter into 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 enter into 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 enter into preset setting in PTZ mode				
Cruise Button	To enter into cruise setting in PTZ mode				
Track Button	To enter into 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> Ă ≚ ¥ ¥ ■	To control playback. Play/Pause/Stop/Previous Section/Next Section/Rewind/Fast Forward				
Snap Button	To take snapshots manually				
Search Button	To enter into search mode				
Cut Button	To set the start/end time for backup in playback mode				
Backup Button	To enter into backup mode				
Zoom Button	To zoom in the images				
PIP Button	To enter into picture in picture setting mode				

Fig 2-8 Remote Controller

Note: You shall press P.T.Z button to enter into 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.

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

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

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

2.5 Control with Mouse

2.5.1 Connect Mouse

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

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

1. Make sure the mouse is plugged in the USB mouse port.

2. Try with a good know mouse.

2.5.2 Use Mouse

During live:

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

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

In Configuration:

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

In order to input a value in a particular screen, move cursor to the input box and click. An input window will appear as Fig 2-9. It supports digits, alphabets and symbols input. Click Shift button to input Capital letters and symbols; click Shift button again to return.

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

NVR User Manual

admin									
1 2	3	4	5	6	7	8	9	0	Backspace
y w	е	r	t	у	u	i	0	р	[] \
a s	d	f	g	h	j	k	I.	;	' Enter
Shift	z	x	с	v	b	n	m	,	. / `
Esc									- =

Fig 2-9 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

Step 1: Connect with the source power.

Step 2: The device will boot and the power LED would turn blue.

Step 3: A WIZZARD window will pop up and show some information about time zone, time setup, network configuration, record configuration and disk management. You can setup here and refer to the concrete setup steps from the corresponding chapters. If you don't want to setup Wizard, please click Exit button to exit.

Note: The default output is HDMI output. Long press ESC key can switch the output among CVBS, VGA & HDMI.

3.1.2 Shutdown

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

By IR remote controller:

Step 1: Press Power button. This will bring up a shutdown window. The unit will shut down by clicking "OK" button.

Step 2: Disconnect the power.

By mouse:

Step 1: Click 🖬 Main Menu and select "Shut Down" icon. This will take you to a shutdown window.

Step 2: Click OK. Then the unit will power off after a while.

Step 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.

	۲
Login	Cancel
	Login

Fig 3-1 Login

Notice: The default user name and password is "admin" and 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 Play 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. There is no necessary for 4/8 CH NVR to add IP cameras, you just need to directly connect the IP cameras to the device. The live images will display after you connect successfully. For 16 CH NVR, you should connect the previous 8 CH directly to the device through PoE network ports and then add the IP cameras for the next 8 channels into the device through WAN/LAN network.

To add IP cameras:

Step 1: Please Enter into Menu \rightarrow IP Camera tab. Refer to Fig 4-1. Click "Search" button to search the devices in the same network.

CH	Device NetAddress	Manufacturer	Product Model	Status
1	192.168.1.2			Disconnected
2	192.168.1.3			Disconnected
3	192.168.1.4			Disconnected
4	192.168.1.5			Disconnected
5	192.168.1.6			Disconnected
6	192.168.1.7			Disconnected
7	192.168.1.8			Disconnected
8	192.168.1.9			Disconnected
1/1	-			

Fig 4-1 Device Management

Step 2: Enter into the search tab. Click "Refresh" to refresh the searched devices and then check the device you want to add or check "All" to add all devices.

	Manufacturer	Product Mod	IP Address	Port
D	XXX		192.168.13.55	9008
D	XXXX		192.168.13.57	9008
D	XXXX		192.168.13.201	9008
D	XXX		192.168.13.68	9008
J				
D				
5				
7				
5				
1/1	1		AII	

Fig 4-2 Search Devices

Step 3: Click "OK" button to save these devices.

Step 4: Click "Setup" button to enable this device. Refer to Fig 4-3. Check the "enable" checkbox, select channel and input the username and password of this device. Then click

"OK" to save settings.

Of course, you can add devices manually. The steps are as follows: Click "Add" button in the device management tab. This will bring up a window similar to Fig 4-3. You need to check "Enable" box, select channel, manufacturer and product model and input server port, username and password of this device. All of these information you can check in the relevant user manual.

Enable	
Channel	1.
Manufacturer	
IP Address	192.168.13.201
Server Port	9008
User Name	admin
Password	

Fig 4-3 Add Device

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 192.168.013.057, the IP address of IP camera must be 192.168.013.XXX. If the NVR is connected through PPPOE, the IP camera should be connected through PPPOE. If the LAN IP address is used in the IP camera, you shall forward the IP address and port of the device in the router, otherwise, the NVR cannot connect this IP camera.

5 Main Menu Setup Guide

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



Fig 5-1 Main Menu Toolbar

Single: Choose a channel from the list to be displayed in the full screen mode.

Multi: Choose the display mode for viewing multiple channels.

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.

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

NVR User Manual



System Setup

5.1 Basic configuration

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

5.1.1 System

Step 1: Enter into Menu→Setup→Basic→System. Refer to Fig 5-3:

BASIC		×
System Date & Time DST		
Device Name	EDVR	6
Device ID	0	
Video Format	NTSC	
Password Check	\checkmark	
Show System Time		
Max Online Users	5	
Video Output	VGA 1024X768	
Language	English	
Logout After [Minutes]	Never	

Fig 5-3 Basic Configuration-Basic

Step 2: In this interface you can setup 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 IR remote controller and 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 setup the menu language.

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

Logout After (Minutes): You can setup 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

System Date & Time DST	
Date Format	MM-DD-YY
Time Format	24 Hour
Time Zone	GMT
Sync Time With NTP Server	0
NTP Server	time.windows.com
	Update Now
System Date	09 / 21 / 2013 25
System Time	11:29:32
	Save Now

Step 1: Enter into Menu→Setup→Basic→Date & Time tab. Refer to Fig 5-4:

Fig 5-4 Basic Configuration-Date & Time

Step 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 **Step 3**: Click "Apply" button to save the settings.

5.1.3 DST

Step 1: Enter into Menu→Setup→Basic →DST interface. Refer to Fig 5-5:

Step 2: In this interface, enable daylight saving time, time offset, mode, start & end month/week/date, etc.

Step 3: Click "Apply" button to save the setting.

NVR User Manual

System Date & Time Date		
Daylight Saving Time	0	
Time Offset [Hours]	1	
Mode	• Week 01	Date
From	January	
	The 1st	
	Sunday	
	00 : 00 : 00	
Until	January	
	The 1st	

Fig 4-5 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 setup camera name.

To setup camera name:

Step 1: Enter into Menu→Setup→Live. Refer to Fig 5-6:

Live	Main Monitor Mask		
СН	Camera Name	Show Name	Color
1	CAMERA01		Setting
2	CAMERA02		Setting
3	CAMERA03		Setting
1	CAMERA04		Setting
MI		Recording	Status 🗹
		✓	Setting

Fig 5-6 Live Configuration→Live

Step 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.

Step 3: Checkmark the camera name in the show name area.

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

To setup color:

Step 1: Click "Setting" button for a particular camera/channel to see a window as Fig 4-7: **Step 2**: In this interface, you can adjust brightness, hue, saturation and contrast in live. Click "OK" button to save the setting.

Channel	×
1	
Brightness	100 + 128
Saturation	
Contrast	
ОК	

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:

Step 1: Enter into Menu \rightarrow Setup \rightarrow Live \rightarrow Main Monitor interface. Refer to Fig 5-7:

Step 2: Select display mode and channel.

Step 3: Select dwell time. Click **Step 3**: Select dwell time. Step 4: Step 4:

Step 4: Click "Apply" to save the setting.

LIVE	8
Live Main Menitor Mask	
Display Mode	2X2 💌 1/1
Channel 1 🔽	Channel 2
Channel 3 💌	Channel 4
Dwell Time[S]	5 .
	Default Apply Exit

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 setup mask area:

Step 1: Enter into Menu \rightarrow Setup \rightarrow Live \rightarrow Mask interface.

NVR User Manual

СН	Mask Area	
1	Setting	
2	Setting	
3	Setting	
4	Setting	

Fig 5-8 Live Configuration-Mask

Step 2: Click Setting button to go into live image.

Step 3: Press and drag the left mouse button to set mask area as shown below.

Step 4: Right click to exit the mask setting interface.

Step 5: Click Apply button to save the setting.

To delete mask area

Step 1: Click Setting button in the mask interface.

Step 2: Select a certain masked area and double click to delete that masked area.

Step 3: Then click Apply button to save the setting.



Fig 5-9 Setting Mask Area

5.3 Record Configuration

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

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

5.3.1 Enable

Step 1: Enter into Menu→Setup→Record→Enable tab. Refer to Fig 5-10:

Step 2: Checkmark record and audio.

Enat	Record Bitra	ate Time Stamp Recycle Record	
СН	Record	Audio	
1			
2			
3	 Image: A start of the start of		
4			
All			_

Fig 5-10 Record Configuration-Record

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

Step 3: Select All to setup the same settings for all channels.

5.3.2 Record Bitrate

Step 1: Enter into Menu \rightarrow Setup \rightarrow Record \rightarrow Record Bitrate. Refer to Fig 5-11:

Step 2: Setup rate, resolution, quality, encode and max bit stream.

Step 3: Select "All" to set the same settings for all channels.

Step 4: Click "Apply" button to save the setting.

Enat	e Record	Bitrate	Time	Stamp	Rea	ycle Recor	d	
СН	Resolutio	fps		Encode		Quality	Max Bitrate	
1	1080p 💌	15	V	CBR		Higher	2048 kbps	
2	1080p 💌	15		CBR		Higher	2048 kbps	
3	1080p 💌	15		CBR		Higher	2048 kbps	
4	1080p 💽	15	•	CBR	•	Higher	2048 kbps	
All	Rem	aining	: 60 (0	CIF), 30	(HD	I), 15 (D1).		
0	CIF .	15		CBR		Higher	2048 kbps	Ŀ

Fig 5-11 Record Configuration-Record Bitrate

Parameter	Meaning
Rate	Range from: 1-30 (NTSC) 1-25(PAL)
Resolution	Supports1080P, 720P, VGA
Quality	The higher the value is, the clearer the recorded image is. Six options: lowest, lower, low, medium, higher and highest.
Encode	VBR and CBR
Max bit stream	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

Step 1: Enter into Menu \rightarrow Setup \rightarrow Record \rightarrow Time interface to set recording time. Refer to Fig 5-12:

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

Step 3: Click "Apply" to save the setting.

Enat	ble Record B	itrate II me	Stamp Recy	ycle Record		
СН	Pre-alarm F	Record Tim	Post-alarm F	Record Tim	Expire[Day	s]
1	5		30		Never	
2 3	5		30		Never	
3	5		30		Never	
4	5	•	30		Never	
			30			

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 setup stamp as follows:

Step 1: Enter into Menu \rightarrow Setup \rightarrow Record \rightarrow Stamp interface. Refer to Fig 5-13:

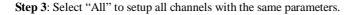
NVR User Manual

Enal	ble Record Bitrate	Time Stamp Recy	cle Record
СН	Camera Name	Time Stamp	Position
1		\checkmark	Setting
2		\checkmark	Setting
3			Setting
4		2	Setting
All			
			Setting

Fig 5-13 Record Configuration-Stamp

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





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:

Step 1: Enter into Menu→Setup→Record →Recycle Record interface;

Step 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.

Step 3: Click "Apply" button to save the setting.

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:

Step 1: Enter into Menu→Setup→Schedule interface. Refer to Fig 5-14:

Step 2: Select channel and click "**C**" button to add a certain day schedule. Click "**C**" 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.

Channel	1					
	00:00	04:00	08:00	12:00	16:00	20:00
Sunday						
Monday						
Tuesday						
Wednesday						
Thursday						
Friday						
Saturday						

Fig 5-14 Schedule Configuration-Schedule

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

Step 1: Select a day and click "Add" button to schedule start time and end time. Then click to save.

Step 2: Select other days and add schedule or copy settings from one schedule to the others under the Apply Settings To item.

Veek Days Tuesday	Apply Settings To	All	Сору
Start Time	End Time		
Start Time	Minute 0		

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: Step 1: Enter into Menu \rightarrow Setup \rightarrow Schedule \rightarrow Motion tab.

Step 2: 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 motion based recording, you must enable motion alarm and setup schedule for motion alarm (see Chapter 5.5.2 Motion Alarm for more details).

x 7. If

5.4.3 Sensor Schedule

This tab allows to set schedule for sensor based recording. The setting steps are as follows: Step 1: Enter into Menu→Schedule→Sensor interface.

Step 2: 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 x 7. If sensor based recording, you must enable sensor alarm and setup 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:

Step 1: Enter into Menu \rightarrow Setup \rightarrow Alarm \rightarrow Sensor \rightarrow Basic tab. Refer to Fig 5-16:

Basi	Alarm Ha	Indling Scho	edule	
сн	Enable	Туре		Name
1		NO		SENSOR 1
2		NO		SENSOR 2
3		NO	•	SENSOR 3
4	 Image: A start of the start of	NO		SENSOR 4
0		NO	U	

Fig 5-16 Alarm Configuration-Sensor-Sensor

Step 2: Enable channels by checking the checkboxes beside the desired channels.

Step 3: Set the alarm type according to triggered alarm type. Two option: NO and NC.

Step 4: Click "Apply" button to save the setting.

Step 5: Enter into 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.

Basi	Alarm Handling S	chedule	
СН	Holding Time[S]	1	Trigger
1	10		Setting
2	10		Setting
3	10		Setting
4	10	J	Setting
\bigcirc	10		Setting

Fig 5-17 Alarm Configuration-Sensor-Alarm Handling

Step 6: Enter into alarm tab to select the options to handle alarm.

Buzzer	 Image: A start of the start of
Show Full Screen	None
To Alarm Out	01
Email	

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.

Step 7: Enter into To Record tab. Select recording channels. It would be recorded in case of an alarm. Click OK button to save the setting.

Step 8: Enter into 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 setup 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:

Step 1: Enter into Menu \rightarrow Setup \rightarrow Alarm \rightarrow Motion \rightarrow Motion tab. Refer to Fig 5-19:

Step 2: Enable motion alarm, set alarm hold time which refers to the time till which the system will wait for further detection of motion. e.g. If the holding time is set to 10 seconds, once the system detects a motion, it will go into alarm but would not detect any other motion alarm (specific to channel) until 10 seconds. If there is other motion detected during this period it is considered it as continuous movement, otherwise it will be considered as a single motion.

lioiii	m Schedu	le			
ЭН	Enable	Holding Time[S]	1	Trigger	Area
		10		Setting	Setting
2		10		Setting	Setting
3	 Image: A start of the start of	10		Setting	Setting
1	>	10		Setting	Setting
JI					
		10			

Fig 5-19 Alarm Configuration-Motion

Step 3: The setup steps of motion trigger are similar to "Alarm Handling" (See Chapter 5.5.1 Sensor \rightarrow Alarm Handling setting for more details).

Step 4: After clicking Area button, a dialog box will pop-up as Fig 5-20:



Fig 5-20 Motion-Area

Step 5: 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 icon to clear the existing field and set afresh.

Step 6: Select "All" to set the same settings for all channels.

Step 7: Click "Apply" button to save the setting.

Step 8: Enter into 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 or Disk Attenuation.

Step 1: Enter into Menu \rightarrow Setup \rightarrow Other Alarm. Refer to Fig 5-21:

Alarm Type	Disk Full
Buzzer	0
Email	0
To Alarm Out	01
Disk Shortage Alarm	128 MB

Fig 5-21 Other Alarm

Step 2: Use the dropdown menu and select the event or the alarm.

Step 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.

Step 4: Click "Apply" to save the setting.

5.5.4 Alarm Out

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

To setup alarm out:

Step 1: Enter into Menu→Setup→Alarm Out. Refer to Fig 5-22:

сн	Relay Name	Holding Time	e(S)
1	ALARM OUT 1	10	
		10	

Fig 5-22 System Configuration-Alarm Out

Step 2: Input relay name and select hold time.

Step 3: Enter into Schedule tab. This will go into 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:

Step 1: Enter into Menu \rightarrow Setup \rightarrow Alarm Out \rightarrow Buzzer.

Step 2: 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 four submenus: network, Email, server and other settings. Network settings must be configured if NVR is used for monitoring over network.

5.6.1 Network

To set up network:

Step 1: Enter into Menu \rightarrow Setup \rightarrow Network \rightarrow Network tab. Refer to Fig 5-23:

Mawork Email Server Other Settin	ngs	
HTTP Port	80	1
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	

Fig 5-23 Network Configuration-Network

Step 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.

Step 3: Set server port. The default server port is 6036.

Step 4: Connect internet. There are three ways to connect internet.

- 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.

Step 5: Test the effectiveness of the network by clicking "Test" button after you set up the network.

Step 6: If the network is well connected, please click "Apply" button to save the setting.

5.6.2 Email

To set up Email:

Step 1: Enter into Menu \rightarrow Setup \rightarrow Network \rightarrow Email tab. Refer to Fig 5-24:

Step 2: Set SMTP Server and port.

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

Step 3: Set sender's address and password.

Step 4: Set receiver's email address and click "Test" button to test the validity of the mailbox.

Network Sub-stream	Other Settings
SMTP Server	
Port	25
SSL Check	0
Send Address	
Password	
Receive Address1	
Receive Address2	
Receive Address3	
	Test

Fig 5-24 Network Configuration-Email

5.6.3 Server

This function is mainly used for connecting ECMS. The setting steps are as follows: **Step 1**: In the server interface, select "Enable" as shown in the Fig 4-28.

Network Sub-stream Email Serv	other Settings
Enable	
Server	192.168.3.123
Server Port	2009
Device ID	382

Fig 5-25 Network Configuration-Server

Step 2: Check the IP address and port of the transfer media server in the ECMS. The default server port for auto report is 2009. If it is modified, please enter into the transfer media interface to check.

Step 3: Enable the auto report in the ECMS when adding a new device. Then input the remaining information of the device in the ECMS.

Step 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 system will automatically connect this device.

5.6.4 Other Settings

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

DDNS		
DDNS Type	www.dvrdydns.com	Ľ
User Name		_
Password		
Host Domain	2	
DDNS Update [Hours]	3	

Fig 5-26 Network Configuration-Other Settings

Step 1: Enable DDNS server. **Step 2**: Select DDNS server.

Step 3: Enter user name, password and host domain name of the registered website.Step 4: Click "Test" button to test the effectiveness of the relevant information.Step 5: Click "Apply" button to save the setting.

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.

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

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

ISER NAME	XXXXX
PASSWORD	•••••
PASSWORD	•••••
FIRST NAME	XXX
LAST NAME	XXX
SECURITY QUESTION.	My first phone number. 💌
ANSWER	x000000X
CONFIRM YOU'RE HUMAN	718408 New Capitola Enter the text you see above

Step 2: Create domain name.

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

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

Search by Domain. Sear	ch	
		Click a name to edit your domain settings.
NAME	STATUS	DOMAIN
654321ABC	۲	654321abc.dvrdydns.com
Last Update: Not yet updated IP	Address: 210.21.22	9.138
Create additional domain names		

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

5.7 User Management Configuration

This tab allows you to add normal or advanced users. To add user and setup user authority: Step 1: Enter into Menu \rightarrow Setup \rightarrow Users. Refer to Fig 5-27:

User Name	User Type	PC MAC Address
admin	Admin	00-00-00-00-00
		_

Fig 5-27 User Management Configuration

Step 2: Click Add button to display a dialog box as Fig 5-28:

General Authority	
User Name	guest
Password	
Confirm Password	
User Type	Normal
Binding PC MAC Address	0
PC MAC Address	00-00-00-00-00

Fig 5-28 Add-General

Step 3: In General tab, input username, password and select user type. You can also check "Binding PC MAC Address" and input this address.

Step 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).

Step 5: Select Authority tab and then assign the operation rights for particular user. Refer to Fig 5-29.

Step 6: Click OK to save the setting.

ADD	USER	-				8
Gene	ral <mark>Aut</mark>	hority				
✓ Tw	g Sear vo Way emote L	Audio		vstem Setup le Managem	Shut Down en Disk Manageme	
		,				
🕑 L K	ve View		⊘ 3			
♥ LN		⊘ 2	⊘ 3	⊘ 4		
V LIN V V Ma	☑ 1 anual R	⊘ 2				

Fig 5-29 Add User-Authority

To delete user:

Step 1: Enter into Menu \rightarrow Setup \rightarrow Users interface.

Step 2: Select the added user you want to delete and then click "Delete" button.

To modify user:

Step 1: Enter into Menu→Setup→Users interface.

Step 2: Select the added user you want to modify and then click "Modify" button to do the relevant operation.

To change user password

Step 1: Enter into Menu→Setup→Users interface.

Step 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 all settings the device will reboot.

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

BLOC	K / ALLOW LIST		۲
	 Block List 	Allow List	
ID	IP From	То	
✓ 1	192.168.000.002	192.168.000.004	<u> </u>
2	000.000.000.000	000.000.000.000	Ξ
3	000.000.000.000	000.000.000.000	
4	000.000.000.000	000.000.000.000	
5	000.000.000.000	000.000.000.000	
6	000.000.000.000	000.000.000.000	
7	000.000.000.000	000.000.000.000	
8	000.000.000.000	000.000.000.000	
9	000.000.000.000	000.000.000.000	
		Default Apply	Exit

Fig 5-30 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. If it is required that computer users within a certain IP address range access NVR, they can check Allow List option and then do the required setting.

6 Search, Playback & Backup

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

6.1 Time Search

Step 1: Enter into Menu→Search →Time Search. Refer to Fig 5-1:

00:00 04:00 08:00 12:00 16:00 20:00 1 2 3 4 5 8 9 10 11 12 15 16 17 18 19	Fr 6 13 20
8 9 10 11 12 15 16 17 18 19 22 23 24 25 26	13
15 16 17 18 19 22 23 24 25 26	-
22 23 24 25 26	28
29 30	27
0 01 02 03	9

Fig 6-1 Search Configuration-Time Search

Step 2: Select date and channels on the right hand side and press the 'Search' button. A date with highlighted borderline indicates presence of data.

Step 3: Set the start time by clicking a particular grid or by entering the specific value in the start time field.

Step 4: Select the channel display mode and click button to play record. Use the playback toolbar to control the playback.



6.2 Event Search

Step 1: Enter into Menu→Search→Event Search button. Refer to Fig 6-2:

Step 2: Select date and channels on the right hand side. A data with highlighted borderline indicates presence of data.

Step 3: Checkmark Motion, Sensor or All accordingly.

Step 4: Click Search button to display the searched event information in the event list box.

Step 5: Double check a certain record file to playback.

NVR User Manual

Time	Search is veri	File Management						1	Sea	irch
CH	Туре	Start Time	End Time	201	3			3		1
1	Motion	08/23/2013 10:42:25	08/23/2013 11:19:21	Su	Мо	Tu	We	Th	Fr	Sa
2	Motion	08/23/2013 10:42:25	08/23/2013 11:19:21					1	2	3
3	Motion	08/23/2013 10:42:25	08/23/2013 11:19:21	4	5	6	7	8	9	10
4	Motion	08/23/2013 10:42:25	08/23/2013 11:19:21	11	12	13		15	16	1
				18				22	23	2
				25	26	27	28	29	30	3
				~	✓ 1	٢	2	⊘ 3		4
1/1 ☑ Mo		Sensor All								

Fig 6-2 Search Configuration-Event Search

6.3 File Management

Step 1: Enter into Menu→Search→File Management interface. Refer to Fig 6-3:

Tin	ne Se	arch Event Search	anagement						1	Sea	irch
	СН	Start Time	End Time	Status	201	3			3		
	1	08/23/2013 10:42:25	08/23/2013 11:19:21		Su	Mo	Tu	We	Th	Fr	Sa
	2	08/23/2013 10:42:25	08/23/2013 11:19:21						1	2	3
	3	08/23/2013 10:42:25	08/23/2013 11:19:21		4	5	6	7	8	9	10
	4	08/23/2013 10:42:25	08/23/2013 11:19:21		11	12	13		15	16	1
0					18	a contraction	20		22	23	2
O					25	26	27	28	29	30	3
0					-	-	-		0		-
0						1		2	₩3		14
O											
0				1							
Ô											
O											
0											
1/1	12		All II								

Fig 6-3 Search Configuration-File Management

Step 2: Select date and channels. The date with highlighted borderline indicates presence of data.

Step 3: Click Search button to display the searched files in the file list box.

Step 4: Use "All" button to lock/unlock or delete all files in the file management column.

Step 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 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 8.3.2 Remote backup).

Step 1: Enter into backup configuration. Refer to Fig 6-4:

Step 2: Set the start & end time, select channels and click Search button to display the searched data in the data backup list box.

	Start Time	End Time	Transferration of the second	
21	08/23/2013 10:42:25	08/23/2013 11:19:21	Start Time	Contraction of the local data and the
22	08/23/2013 10:42:25	08/23/2013 11:19:21		00 : 00 : 00
3	08/23/2013 10:42:25	08/23/2013 11:19:21	End Time	09 / 21 / 2013
2 4	08/23/2013 10:42:25	08/23/2013 11:19:21		23 : 59 : 59
				2 23 24
3				02.02 0.
1			-	
1				
5			-	
5				
1			_	
			_	
2				

Fig 6-4 Backup Configuration

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

outer the type	
Save File Type	DVR
Backup Player	2
Free[GB]	0.000
Size[GB] Storage Media	0.508 USB-1
The Number Of Files	4
End Time	09/21/2013 23:59:59
Start Time	08/23/2013 00:00:00

Step 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 five submenus: system, event, log, network and online user.

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.

7.2 Manual Alarm

In this interface, user can trigger a manual alarm.

7.3 Disk Management

1. Format the disk

Step1: Enter into disk management tab.

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.

Step2: Click Refresh button to refresh the disk information in the list box. Step3: Select a hard disk and click Format button to start format.

Note: 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:

Step 1: Copy the upgrade software which gets from vendor into the USB storage device.

Step 2: Connect the USB flash drive to the USB port.

Step 3: Enter Menu \rightarrow Upgrade tab. Then the upgrade software name would be displayed in the upgrade list box.

Step 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

Enter into 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 Menu icon to enter into user name and password to re-login.

8 Remote Surveillance

8.1 IE Remote Surveillance

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. This NVR supports IE browser, on Windows XP and Vista platform.

8.1.1 On LAN

Step 1: Enter into the NVR's Main Menu \rightarrow Setup \rightarrow Network tab to input IP address, Subnet Mask, etc. If using DHCP, please enable DHCP in both the NVR and the router.

Step 2: Enter Record Setup to set network video parameters like resolution, frame rate etc.

Step 3: Open IE on a computer on the same network. Input the IP address of the NVR in IE address bar and press enter.

Step 4: IE will download ActiveX component automatically. Enter the username and password in the subsequent window.

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

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

8.1.2 On WAN

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

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

Step 1: Enter into the NVR's Main Menu \rightarrow Setup \rightarrow Network interface to input IP address, Subnet Mask, etc. If using DHCP, please enable DHCP in both the NVR and router.

Step 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.

Step 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.

Step 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.

NVR User Manual



Fig 8-1 View with IE Browser

2. Connect the NVR to internet through PPPoE directly.

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

Step 2: When accessing the remote interface of NVR, user can input WAN IP to access directly (user can enter into Main menu \rightarrow Information \rightarrow Network interface to check IP address).

Step 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.

Step 4: The following setting steps are as the same as Step3 and Step 4 in Point 1.

8.2 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 be started in 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)
	/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:	
1	Open in 32-bit mode
	Open using Rosetta
Ö	Locked
► More Inf	lo:
▼ Name &	Extension:
Safari.a	pp

8.2.1 On LAN

Step 1: 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 Dock	•
Recent Items	
Force Quit Finder	6807
Sleep Restart Shut Down	1.84
Log Out coodoo	0 % Q

Step 2: Enter into 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 😫	
IP Address:	XXX. XXX. XXX. XXX	
Subnet Mask:	XXX. XXX. XXX. XXX	
Router:	XXX. XXX. XXX. XXX	
DNS Server:	XXX. XXX. XXX. XXX	
Search Domains:		
	(Advanced)	?
r changes.	(Assist me) (Revert) (App	ply

Step 3: After acquiring the IP address, Subnet Mask and so on, please enter into the NVR's Main Menu \rightarrow Setup \rightarrow 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.

Step 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 Active X control as shown below:



Step 5: Click \checkmark icon and then select the Active X control, the welcome interface will be shown. Click "Continue" \rightarrow "Install" button , the following window will pop up :

800	Install WebClientPlugin-64	Downloads
	Welcome to the WebClientPlugin-64 Installer	m-64 pkg
Introduction Destination Sel Installation Installation Summary		8 Developed
	Collect (Continue ataller to make
	Name: coodoo Password: [
	(?) (Can	cel OK

Input the name and password of Apple PC and then click "OK" to install this Active X control. Step 6: After finishing installing the Active X control, please quit from the Safari browser. Right click Safari icon on the desktop and then select "Quit" button to quit the browser. Then restart Safari browser. Input the IP address and http port to enter into the login interface of NVR.

8.2.2 On WAN

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

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

Step 1: The network setups are the same as step one to step four of point 1 on WAN of IE remote surveillance.

Step 2: 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.

Step 1: The network setups are the same as step one of point 2 on WAN of IE remote surveillance.

Step 2: 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.

8.3 Remote Preview

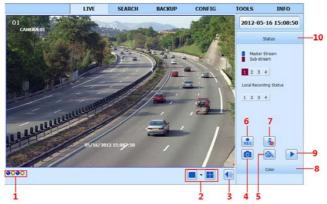


Fig 8-2 Remote Live Preview

Symbol and function Definitions:

1	Channel indicator	2	Screen display mode	3	Volume
4	Snap	5	Start IE record	6	Start manual record
$\overline{\mathcal{O}}$	Start Talk	8	Color	9	Playback
(10)	Master/sub stream st	atus			

Note: Click **button to record manual and the record file will be saved in user's PC.** 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→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>ö</u>	Drag the scroll bar to adjust the brightness of channel
6 0	Drag the scroll bar to adjust the contrast of channel
	Drag the scroll bar to adjust the saturation of channel
• 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

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



Fig 8-3 Right Key Sub Menu

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.

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.

8.4 Remote Playback & Backup

8.4.1 Remote Playback

Click button to enter into record playback interface. Refer to Fig 8-4:

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.

NVR User Manual

AMI	a 4 4	1 1	Record Date	2009-12	2-24 🖌		- 10
			© 00-00-00-00 © CAM1 © CAM2 © CAM3 © CAM4	0-00-00			
a filler of	The state	Aster	File Name		chan	Time	Leng
	NTA STOR	-	20091224001802		CAM1	00:18:02	
A DECKY W			20091224063015	03.avi	CAM3	06:30:15	
N-6/ 1	AT CONTRACT	2 in a c	20091224062529	04.avi	CAM4	06:25:29	2:3
A A C			20091224062750	_02.avi	CAM2	06:27:50	
009/42 09 15	51 48		 (*)) - ********		>
°⊨ u m e		≜ ⊠			į	•	,
00.)12240.62529_09.avi	06:25:29						

Fig 8-4 Play Record File Interface

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

By Time Search:

Step1: Enter into Search→Time search. Refer to Fig 8-5:

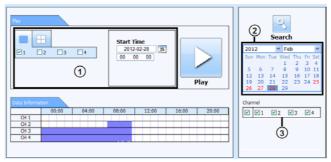


Fig 8-5 Time Search Interface

Step2: The highlight date in the area②indicates recorded data. Select the date in the area ③ and record channels in area③

Step3: Click "Search" button. The record data will be displayed in the data information list box.

Step 4: Set the Start time and display mode in the area①as required.

Step 5: Click "play" button to playback.

Step 6: Click the relevant buttons in the interface for operation, like FF, pause, change channel mode, research, etc. Please refer to Fig 8-6:

NVR User Manual

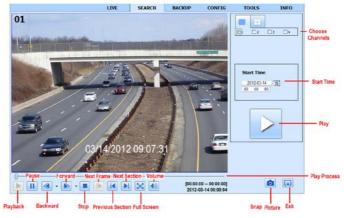


Fig 8-6 Time Search Playback

By Event Search:

Step1: Enter into Search→Event Search. Refer to Fig 8-7:

Channel	Start Time	End Time	Туре		Search
2	2012-02-28 13:37:25	2012-02-28 13:38:50	Motion	-	121 201
2	2012-02-28 13:34:57	2012-02-28 13:36:52	Motion	2012	Y Feb
2	2012-02-28 13:33:44	2012-02-28 13:34:56	Motion	Sun Mon	Tue Wed Thu Fn S
2	2012-02-28 13:32:21	2012-02-28 13:33:44	Motion	5 6	7 8 9 10 1
2	2012-02-28 13:31:10	2012-02-28 13:32:20	Motion	12 13	14 15 16 17 1
2	2012-02-28 13:30:14	2012-02-28 13:31:09	Motion	19 20	21 22 23 24 2
2	2012-02-28 13:28:45	2012-02-28 13:30:13	Motion	26 27	28 29
2	2012-02-28 13:26:46	2012-02-28 13:28:21	Motion	Channel	
2	2012-02-28 13:24:26	2012-02-28 13:25:44	Motion		D. D. D.
2	2012-02-28 13:13:24	2012-02-28 13:14:37	Motion		₩2 ₩3 ₩4
2	2012-02-28 12:54:14	2012-02-28 12:55:38	Motion		
2	2012-02-28 12:47:21	2012-02-28 12:49:05	Motion		Motion
2	2012-02-28 12:46:21	2012-02-28 12:47:21	Motion		Sensor
2	2012-02-28 12:45:26	2012-02-28 12:46:21	Motion	1111 📅	AI
2	2012-02-28 12:43:49	2012-02-28 12:45:26	Motion		

Fig 8-7 Event Search Interface

Step 2: Click the highlight date and select record channels.

Step 3: Checkmark the event type: motion and sensor.

Step 4: The events will be display in the event list box by clicking Search button.

Step 5: Double-click certain item to playback.

File Management

Step 1: Enter into Search→File management. Refer to Fig 8-8:

Step 2: Select highlighted date and channels.

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

Check	Channel	Start Time	End Time	Status		Search	
	2	2012-02-28 13:42:18	2012-02-28 13:42:25	Writing			
	2	2012-02-28 12:47:21	2012-02-28 13:42:18		2012	¥ Feb	1
	2	2012-02-28 12:18:00	2012-02-28 12:47:21		Sun Mon	Tue Wed Thu	Fri Sa
	2	2012-02-28 11:49:53	2012-02-28 12:18:00		5 6	7 8 9	3 4
	2	2012-02-28 11:22:41	2012-02-28 11:49:53		12 13	14 15 16	17 1
	2	2012-02-28 10:56:53	2012-02-28 11:22:41		19 20	21 22 23	24 2
	2	2012-02-28 10:30:04	2012-02-28 10:56:53		26 27	28 29	
	2	2012-02-28 10:02:59	2012-02-28 10:30:04		Channel		
	2	2012-02-28 09:34:12	2012-02-28 10:02:59			172 a 172 a	
	2	2012-02-28 09:09:43	2012-02-28 09:34:12			₩2 ₩3	₽4
	3	2012-02-28 13:34:49	2012-02-28 13:42:25	Writing			
	3	2012-02-28 13:23:25	2012-02-28 13:34:49				
	3	2012-02-28 13:11:57	2012-02-28 13:23:25	(
All	Invers	ue 1/23					

Fig 8-8 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.

8.4.2 Remote Backup

Click Backup button to enter into backup interface. Refer to Fig 8-9:

		LIVE	SEARCH	BACKUP	CONFIG	TOOLS INFO
ka List						
Check	OI	Start Time	End 1	Time	Status	2
2	1	2011-04-27 23:50:35	2011-04-26	00:12:48		Search
2	1	2011-04-28 00:12:48	2011-04-28	00:34:58		Search
	1	2011-04-28 00:34:58	2011-04-28	00:57:07		
	1	2011-04-28 00:57:07	2011-04-28	01:19:16		
	1	2011-04-28 01:19:16	2011-04-28	01:41:34		Start Time
	1	2011-04-28 01:41:34	2011-04-28	02:03:47		2011-04-28
	1	2011-04-28 02:03:47	2011-04-28	02:25:52		00 : 00 : 00
	1	2011-04-28 02:25:52	2011-04-28	02:48:02		End Time
	1	2011-04-28 02:48:02	2011-04-28	03:10:11		2011-04-28 25
	1	2011-04-28 03:10:11	2011-04-28	03:32:20		23 : 59 : 59
	1	2011-04-28 03:32:20	2011-04-28	03:54:25		Enders and Annual States
	1	2011-04-28 03:54:25	2011-04-28	04:16:35		
	1	2011-04-28 04:16:35	2011-04-28	04:38:44		Channel
	1	2011-04-28 04:38:44	2011-04-28	05:00:53		
A11	Inverse	1/10	5			
le Path				Browse	Backup	

Fig 8-9 Remote Backup Interface

Step1: Select channels, set the start and end time and then click "search' button to display the file information in the file list box

Step2: 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.

8.5 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 setup the relative parameters. Only one user can do configuration setup at a given

point of time. Click Config tab to enter into the below interface as Fig 8-10:

ac									Apply	Default
Local config	Loc Co								249.12	PETHONY
Basic	Local V	Local View								
	Snap Pal	th		E:\						Browse
Live	Snap An	nount		4						
Record	Remote	temote Playback								
Record	Snap Path			C:\Users\kevin\Documents						Browse
25 Schedule	Snap An	nount		10						
	Local R	ecord								
Alarm	Save Pat	Save Path F:\15								Browse
Network	Record 0	Channel		_						
	1	1	2		3	₹4				
P.T.Z	Audio C	nannel								
Users	10		1			2		3	四4	

Fig 8-10 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.

8.6 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.

8.7 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.

System	Log List				2		
	Туре	User Name	Time	P Address			
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 8		
Log	Event Search	admin	2012-03-27 10:52:45	192.168.0.1	00 00 00		
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 8		
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			
Online Users	Logoff	admin	2012-03-27 09:52:37	192.168.0.1	System Control		
S Officie Osers	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	E Backup		
	IPCamera DisConnected	system	2012-03-27 00:12:11	192.168.20.201	Reda 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		

Fig 8-11 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 and only has live image display, why?

a. Check whether the monitor is connected to the main video out. The monitor might be connected to VGA /HDMI port whereas the NVR may be set for output through BNC or vice versa. Long press ESC 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. The system cannot record, why?

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



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

③Enable 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
Internet Local intranet Trusted sites Restricted	Enable Prompt
	Download unsigned ActiveX controls
Internet This zone contains all Web sites you haven't placed in other zones	Disable Enable Prompt
Security level for this zone	Initialize and script ActiveX controls not marked as safe
Custom	Disable
Custom Custom settinas.	Enable Prompt
To change the settings, click Custom Level. To use the recommended settings, click Default Level.	C Prompt
	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 a small keyboard will pop up. 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
VGA	NVIDIA GeForce MX440/FX5200 ATIRADEON 7500/X300
OS	Windows 2000(SP4 above) /Windows XP(SP2 above) /VISTA
DirectX	9.0

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 14-1); 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 14-2), select Run as administrator to run browser.

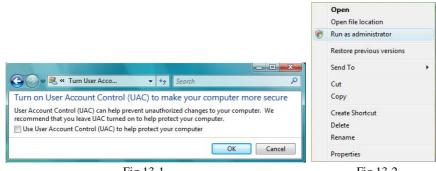


Fig 13-1

Fig 13-2

Q14. How to play the backup file?

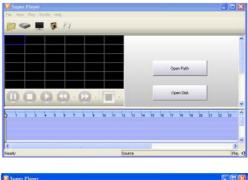
a. Insert your USB device where the backup files are saved in the USB port of PC. If your

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



and backup player. Double click INT BIZKE 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.



			SA 5	earch 5	ietting	Eve	nt List		_
The second second			Solo	t Date	-		-		
			500	Mon 1	tarch, 2 tue Wed				
			4	\$ 12	6 7 13 14	8 9 15 10	10 17		
		D · 🔳	· 25		20 21 27 28	22 2		🔎 See	rch
	5 6 7		11 12 10	14	16 10	NI DALA	18 19	20 21 22	22

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)
		12M	2700
		8M	2025
1080P	15fps (NTSC)	7M	1575
		5M 1350	1350
		4M	900
		6M	2700
720P		4M	1800
	30fps (NTSC)	2M	900
		1M	450
		256	113

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) X 24(hours/day) X30(days) X4 (channels)= 2592000 (MB)=2531.25(GB)

Therefore, customers just install two SATA HDDs with 1.5TB, it can almost record for one month.

Appendix C Compatible Devices

1. Compatible USB drive after test.

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

2. Compatible 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 Desk star	80G/160G
WD WD1600JS	160G
Samsung HD161HJ	160G

Appendix D 4-CH Specifications

Compression format	H.264
Video output	CVBSx1; VGA×1; HDMI×1
IP Input	4 CH 1080P @ 15fps or 2 CH 1080P@30fps 4 CH 720P@30fps; 4 CH D1@30fps
HDMI/VGA Resolution	1080P/1280*1024 / 800*600
Record Resolution	1080P , 720P, VGA
Audio Input	RCA X1
Audio Output	RCA X1
Alarm Input	NO or NC 4CH
Alarm Output	1CH
Record Mode	Manual / Sensor /Timer / Motion detection
Simplex/Duplex/Triplex	Pentaplex
Common Network Port	RJ45 x1
PoE Network Port	RJ45 x4
Communication Interface	RS485, USB2.0 x 2 (one for backup, another for USB mouse)
Disk Info	SATA x 1+DVD-RW x 1 or SATA x 2
Remote controller	YES
Power Supply	DC12V
Temperature	℃ 0 2 ° 0
Humidity	10%-90%

Appendix E 8-CH Specifications

Compression format	H.264
Video output	CVBSx1; VGA×1; HDMI×1
IP Input	8 CH 1080P @ 15fps or 4 CH 1080P@30fps 8 CH 720P@30fps; 8 CH D1@30fps
HDMI/VGA Resolution	1080P/1280*1024 / 800*600
Record Resolution	1080P , 720P, VGA
Audio Input	RCA X1
Audio Output	RCA X1
Alarm Input	NO or NC 8 CH
Alarm Output	1CH
Record Mode	Manual / Sensor /Timer / Motion detection
Simplex/Duplex/Triplex	Pentaplex
Common Network Port	RJ45 x1
PoE Network Port	RJ45 x8
Communication Interface	RS485, USB2.0 x 2 (one for backup, another for USB mouse)
Disk Info	SATA x 1+DVD-RW x 1 or SATA x 2
Remote controller	YES
Power Supply	DC12V
Temperature	℃ 0 2 ° 0
Humidity	10%-90%

Appendix E 16-CH Specifications

Compression format	H.264
Video output	CVBSx1; VGA×1; HDMI×1
IP Input	16 CH 1080P @ 15fps or 8 CH 1080P@30fps 16 CH 720P@30fps; 16 CH D1@30fps
HDMI/VGA Resolution	1080P/1280*1024 / 800*600
Record Resolution	1080P , 720P, VGA
Audio Input	RCA X1
Audio Output	RCA X1
Alarm Input	NO or NC 16 CH
Alarm Output	1CH
Record Mode	Manual / Sensor /Timer / Motion detection
Simplex/Duplex/Triplex	Pentaplex
Common Network Port	RJ45 x1
PoE Network Port	RJ45 x8
Communication Interface	RS485, USB2.0 x 2 (one for backup, another for USB mouse)
Disk Info	SATA x 1+DVD-RW x 1 or SATA x 2
Remote controller	YES
Power Supply	DC12V
Temperature	℃ 0 2 ° 0
Humidity	10%-90%

450011000475 A0