

# **USER MANUAL**

V1.1B\_E

16-CH Embedded Digital Video Recorder



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#### Notes

- The power supply of this DVR is provided through DC12V5A adapter, please check the power outlet before installation and ensure it can meet the requirements of adaptor;
- Do not place the DVR at a place subject to rain or moisture;
- Do not install the DVR at a place subject to violent vibration;
- Do not install the DVR at a place subject to direct sunlight, and be far away from heat and high temperature environment;
- The back panel shall be 15cm or more away from other objects or wall, to facilitate fan cooling;
- The DVR shall work under temperature, humidity and voltage according to its technical specifications;
- The space where DVR installed shall not be stored with corrosive chemicals that may produce volatile gases, to avoid to affect the DVR's life;
- The DVR shall be installed in a space without much dust, and the environment should be kept clean and tidy;
- Proper grounding shall be installed during operation;
- DVR should be installed to ensure the proper connectivity with other devices.

Please buy hard disk from official channel to meet DVR's long time and much data reading and writing requirements.

### **Chapter 1 Overview**

### 1.1 Introduction

This product is a consumer-oriented 16-channels CIF real-time network DVR, and adopt the industry's most advanced SOC technology and standard H.264 encoding method, so that the image quality is higher, network transmission effect is better and system is more stable; the body is made under stylish appearance design and sophisticated manufacturing process, the 1U standard chassis is suitable for small-scale monitoring places such as shop, supermarket, residence, school, hotel, Internet cafe, family and other civilian sites where require more on video quality, network transmission and real-time playback.

#### 1.2 Packaging and accessories

Following parts are included in the package:

- One IR remote controller
- O A pair of remote controller batteries
- One piece of product certificate
- One piece of product instruction
- ② 2 SATA hard disk data cable(installed in the host)
- One DC12V5A or 12V3A(one HDD) power adapter
- Support HDD (already installed) and a set of mounting screws.
- © 2 HDD power cable (already installed in the host)
- One piece of CD.

#### 1.3 Main features

- © Standard H.264 video compression format
- © 16-bit true-color semi-transparent graphical menu interface, menu options tip
- O A variety of recording modes: manual, timing, movement and alarm recording
- Optimized four-channel simultaneous playback
- A variety of backup (USB flash disk, mobile hard disk, network)
- One USB2.0 for data backup, one USB1.1 for the mouse operation
- Multi-functional operation, recording, playback, monitor, backup and network transmission can be realized at the same time
- O Dual stream technology
- Support network to implement multi-screen real-time browsing, parameter setting, copy or playback
- © Support mobile phone monitoring
- $\ensuremath{\mathbb O}$  Support event classification and precise time search and playback
- O Defaulted parameter value fast recovery
- © Flexible USB interface for mouse

1.4	Technica	parameters

Features	Description
Operating system	Embedded LINUX
Video compression	H.264
Video input/output	16/1 channel BNC 1 VGA
Audio input/output	2/1 channel BNC
Alarm input/output	8CH input 1CH output (switch)
Display split	1/4/9/16 channels
Multiplex operation	Live, recording, network, mobile phone
	surveillance simultaneously
Recording mode	Timer/manual/motion detection/alarm
Recording frame rate	PAL: 25fps NTSC: 30fps adjustable
Recording quality	Best, Fine, Normal
Recording resolution	CIF(352*288)
Recording playback	4 channels playback simultaneously
	(the playback channel is optional .Support
	remote playback)
Recording backup	Support USB disk backup, mobile hard disk
	backup, network backup, backup by files,
	backup by time
HDD	Support 2 SATA HDD, capacity to 2T
Network transmission	4 channels with CIF resolution
Email alarm	Send pictures to the designated Email
PTZ control	Support
PTZ protocol	PELCO-D, PELCO-P
PIP	Support
Zoom	Support
Network and protocol	1 RJ-45 10/100M via Ethernet, support
	TCP/IP,DHCP,DNS,DDNS,SMTP,NTP etc.
Capture function	Support
IE browser	Support, max 5 users on line
Client software	Support, max 5 users on line
Dual stream	Support (main and secondary interchange)
Multi-language	Support
Mobile phone surveillance	Support
	Windows,Symbian,IPhone,Blackberry,Android ;
	max 3 users on line
SDK package	Optional
Mouse interface	USB1.1
Backup interface	USB2.0
Remote controller	Support
User authority	Support multi-level user authority distribution
Power adapter	DC12V/5A or 12V/3A(one HDD)
Working temperature	-20°C - 60°C
Working humidity	10%-90%
SIZE(mm)	354(W) * 230(D) * 45(H)

#### **1.5 Product appearance and interface definition 1.5.1 Front panel**

Front panel 1



No.	Definition	No.	Definition	No.	Definition
1	Power switch		MENU: Main menu	9	Confirm
2	Manual recording	7	PTZ: PTZ control	10	Directional keys: up, down, left and right
3	Stop recording		ESC: Exit/Return	11	Power LED
4	Video search		REC: Video recording indicator	12	2.0 USB interface, which can be accessed to USB disk for backup or upgrade
5	Mute	8	LINK: Network connection indicator	13	Remote control infrared receiver
6	Display mode		ALARM: Alarm indicator	14	USB mouse interface

#### Front panel 2

				ĺ	] alarm			: D PWF		(	and the second	$\sim$ C	) _
16 Chardel H 201 Diated Meleo Becorder	₽₩ <b>•</b> -				RECISTOP		search				Enter		
													┦
1	2	3	4	5	6	7	8	9 10	11	12	13	14	15

No.	Definition	No.	Definition		Definition
1	Power switch	7	Mute		PTZ control
2	Rewind	8	Video search		Exit/Return
3	Play		ALARM: Alarm indicator	12	DISPLAY: Display mode MENU: Main menu
4	Pause	10	LINK: Network connection indicator	13	up, down, left , right and enter
5	Forward	10	REC: Video recording indicator	14	USB: Used for connecting USB device
6	Manual start/stop recording		PWR: Power LED	15	Remote control infrared receiver

#### 1.5.2 Back panel



No.	Physical interface	Interface description
1	1-16CH Video in	Connect analog video(camera) signal input, standard BNC
2	Video out	CVBS output and connect the monitor
3	AIN1,AIN2	Connect active audio signals, such as pickup
4	Audio out	Connect the audio output
5	VGA	Connect VGA monitor, such as computer monitor
6	NETWORK	Connect the Ethernet
7	RS485 / ALARM / DC	PTZ control, alarm switch output, DC 12V output for assistance
8	SENSOR 1-8	Connect alarm switch input
9	ALARM	Connect alarm switch output
10	DC12V	Power input: DC 12V/5A or 12V/3A(one HDD)
11	G	Grounding

#### 1.5.3 Topology



#### 1.6 Remote controller

For reference only, the real product shall prevail.



Key	Functional definition
J	Spare keys
	Mute
0~10	Channel selection; number keys
PTZ	PTZ Control
	Single and multi-split screen
	Quit shortcut menu
ノ	Shortcut menu
	Direction buttons
<b>↓</b>	OK or 10+x channel(x=1-6)
ESC	Exit / Return
MENU	Enter the main menu
STARTREC	Start recording
STOPREC	Stop recording
	Video Search
	Stop playing
	Fast backward
	Fast forward
	Step forward
F1, F2	Spare key

#### 1.7 Mouse

This equipment supports USB mouse, so the user can operate with mouse (mouse operation is the same as WINDOWS operating setting) to realize menu functions. It is just ok to insert the mouse with USB interface to the mouse interface in this equipment.

Enter system main menu: real-time screen preview, single mouse left click
Single left click the functional menu icon, and enter menu setting page The image in a channel can be enlarged by double click real-time monitoring and playback screen, it can be recovered into monitoring and multi-split image after double click again
Access to volume adjustment, color adjustment and PTZ control menu. The volume adjustment, color adjustment and PTZ control can set only one channel, please select corresponding screen if multi-screen mode is on prior to setting. If you single click mouse button in volume adjustment and PTZ control: PTZ control is available if clicking direction or "+ and -" icon; There is a volume bar in volume control interface. Move mouse to a position and click right button, the corresponding volume will be shown in the right side of the volume bar, click "x" to exit; The operations like color adjustment can be referred to above volume adjustment. If there are many options in the option box, click the left button and drop-down menu will be shown. Fast forward and fast backward function can be realized by left clicking in video playback interface. Click the left button or right button can activate the soft keyboard in input box, clicking right button can switch English and Chinese input state; the number, symbol and English word capitalization can be realized only by clicking. The Chinese spell is also available via the soft keyboard input when Chinese input, its input method is as same as remote control; left button can be used for turning page.
Click left button and move can adjust the parameters in volume adjustment and color adjustment interface, there is corresponding parameter display in right side when movement. Click left button and move the motion box can set the dynamic detection zone in motion detection zone.

## **Chapter 2 Quick installation**

### 2.1 HDD Installation

Hard disk installation must be carried out by technicians to avoid damage to the equipment and hard disk. The DVR mainframe must be powered off before operation. This equipment supports hard disk with SATA hard disk interface. Seagate hard disk is recommended.

Installation procedures are as follows:

A. Open the equipment and a hard disk support can be seen.

B. Connect the hard disk data and power cable well

C. Put the hard disk into support, and align the hard disk's screw hole with the support.

D. Fix the hard disk on the support with screw, and cover the DVR.

Note: the new hard disk just can work well after formatted by the DVR.

#### 2.2 Boot

Connect the power adapter to the power cord socket in back panel, and press the power button in front panel, the recorder will be on, power indicator "POWER" is on, the monitor will display 16-channel split image. If non-formatted hard disk exists in the equipment, hard disk formatting information will be shown. If boot-record mode is on, or boot time is in the setting time, the system will start automatic recording function, the "REC" indicator will be on to indicate the system is working normally.

#### Note:

1.If hard disk fails to be installed when DVR is power on, or the newly installed hard disk fails to be formatted on the DVR, the red "H" logo will be shown in video pre-view picture.

2. The newly installed hard disk must not be used until formatted in the equipment as follows: Main Menu  $\rightarrow$  HDD  $\rightarrow$  HDD Format. The system will be restarted after completion of formatting.

#### 2.3 System login

The DVR initial code is 000000 without any password, the user can log in main menu directly. For better safety of equipment operation, the administrator can enter system "Basic Settings" – "User Password" to change the code and password of this equipment. You can set ordinary user password and administrator password, the administrator has all the operating privileges, ordinary users only have limited privileges, and they can only monitor and video search/ playback. (the mainframe will match automatically when you enter password, and different permissions will be given according to different passwords).

If you want to operate in mainframe menu after password is set, the system will display "USER LOGIN" interface:



**Equipment code:** it is just ok to enter equipment code "000000" displayed on right side in corresponding input box. The defaulted code will be guided to the number box when mouse operation; we recommend to set mainframe password when remote controller is operating many equipments, to divide through targeted equipment code input, or the remote controller will disturb the adjacent mainframe.

#### 2.4 Shortcut menu

Click right button in the interface after system startup, quick operations are available to DVR system in the pop-up menu, it can set or control parameters including main menu, lock, video search, PTZ control and video recording.

MAIN MENU	
KEYLOCK	
CHN SWITCH	
VIDEO SEARCH	
START SEQUENCE	
START CRUISE	
PTZ	
MUTE	
MANUAL REC	
STOP REC	1X1
PIP MODE	1X2

#### 2.4.1 Main menu

Click "Main Menu" to enter the main menu interface, please see 3.1.

#### 2.4.2 Lock

When the password function is on (please see 2.3), click right button in monitoring interface, and select "Lock" in the pop-up menu, the system interface can be locked immediately, password is required to log in if operation to mainframe menu is needed.

#### 2.4.3 Channel switch

Choose a specific channel

#### 2.4.4 Video search

Please see Chapter 3.

#### 2.4.5 Start Sequence

Start video channel automatic switching function. (Right-click to exit)

#### 2.4.6 Start Cruise

PTZ preset start cruising capabilities. (right click again to opt out cruise)

Note: This feature can only be valid after set up PTZ control parameters and preset points.

#### 2.4.7 PTZ Control

Click right button in main interface and select "PTZ control", following interface will pop-up:



PTZ speed (fast or slow) can be controlled in this interface, zoom, focus and aperture is also controllable.



#### Cruise setting:

Step 1 Select the PTZ channel

Step 2 Set the pause time (**s**)

Step 3 Adjust the arrow keys to the position which needs to be monitored

Step 4 Press SETTING POINT .Repeat steps 2-4 to set the second location

Step 5 Select the APPLY button to save the settings

Step 6 Exit to live screen and select START CRUISE.

----END

Note: 1, if you need to set up more points, repeat steps 2-5

2, to view the point has been set, in the current point enter the NO and select JUMP

3, to delete the point has been set, enter the number, select CLEAR

#### 2.4.8 MUTE

Turn on / off sound.

#### 2.4.9 Manual recording/stop recording

If "timing record" is on (please see Chapter 3), and recording is not set in this period, "manual recording" and "timing record" is effective. When boot-record mode is on, this function is not available.

#### 2.4.10 ZOOM

In the single-channel full-screen mode, this function can be done by dragging the mouse to marquee area to enlarge



#### 2.4.11 PIP

In the single-channel full-screen mode, you can see floating images of other channels.



### **Chapter 3 Advanced settings**

#### 3.1 Main menu

The main menu has the "PLAYBACK", "RECORD", "HDD", "BASIC", "ADVANCED" and "Exit" options, as shown below:



**Note:** The setup of all the submenus below will not be effective until "Enter" is pressed. The setup of this menu will be invalid if you exit directly. A significant characteristic of this product is when you move the cursor to any option, the prompting message of this option will be displayed automatically in the lower part of the screen.

#### 3.2 Recording mode

Enter the Recording Mode screen from "Main Menu"—"Record", as shown below:



Video Channel: select the specific channel.

RESOLUTION: CIF (352\*288) .

QUALITY: available in the 3 levels of best, fine and normal,

Frame rate: adjust frame rate.

AUDIO: switching on or off audio.

**REC.MODE:** available in the two modes of startup recording and timing recording.

When powered up: starting recording when this unit is energized (It works only if the corresponding channel is enabled in the "Channel" option.)

**BY TIME:** performing recording as scheduled. When "timing recording" is selected, the "Record Time Configuration" button will appear on the right. Move the cursor here and press "Enter" to enter the Record Time Configuration screen, as shown below:

	SC	HEDULE		
CHANNEL AL	.L 🖌			
00	06	12	18	23
SUN.				
MON.				
TUE.				
WED.				
THU.				
FRI.				
SAT.				
🖾 ALARM 🔲	GENERAL	NO RECO	RD	
FROM SUN. 🔽	TO ALL 🔽	COPY		
	DEF	AULT SAV	E EXIT	

Channel: You may choose either "All" or a single channel.

**Time configuration:** First select from the 3 modes of alarm recording, general Recording and no recording for your desired recording mode for a certain lattice, and configure specific recording time lattices (each lattice represents 1hr). Each lattice can be configured into different recording modes by marking them into different colors, such as red, green and background color, which represent alarm recording, general recording or no recording within each hour respectively.

**FILE LENGTH:** Left-click or press "Enter" to select the File length, with the 4 options of 15min, 30min, 45min and 60min.

#### 3.3 Video search

Enter the Video Search screen from "Main Menu"  $\rightarrow$  "Video Search", as shown below: This unit supports 3 video search modes:

#### A. Timing playback

Time input: First select the corresponding channel and then adjust the date and time to be searched. Left-click or press "Enter" and the direction keys or enter digits directly for year, month, date, hour and minute adjustment, and then click "Playback" to play back the record of this period of time. 4 channels can play back simultaneously.

#### B. Playback based on record calendar

Mark the channel and enter the year, month and date to be searched in the "Time Input" box and click "Search" to view the record state of this date, as shown below:



**Month:** displaying the record information of every day in the current month. A green block indicates normal recording, a red block indicates alarm recording, and the background color indicates no recording. Click a date on this bar to search the record information of every hour of that day. The search results will be visualized in the "Day" bar below.

**Date:** displaying the recording hours of the current day. Each lattice represents 1 hour, and one recording segment is 0.5hr. The presentation of the record state is the same as above. Click a 0.5hr segment of a day directly to enter the record playback of this segment.

#### C. Playback based on file list

Enter the year, month and date to be searched in the "Time Input" box and click "Search" to view the record state of this date. Click a certain day on the "Month" bar and then "FILE LIST", and the "FILE LIST" screen will pop up, as shown below:

**type:** There are 3 options: all, normal and alarm. After selection and confirmation, the searched message will be displayed automatically as a list, as shown below:

	FI	LE LIST		
TYPE AL	L			FIRST
СН	TIME	SIZE	TYPE BAK	PRE
1 00:00	:00-00:59:59	172.1M	NORMAL 🖂	NEXT
2 00:00	:01-00:59:59	172.2M	NORMAL	LAST
3 00:00	:01-00:59:58	°171.5M		ALL
4 00:00	:01-00:59:59	171.8M		OTHER
5 00:00	:02-01:00:00	172.6M		DAOKU
6 00:00	:02-01:00:00	172.4M		BAUNU
🖨 The	next Page			EXIT

#### Notes:

- 1. In the "Detailed File" list, by which recording channel is the current record file recorded is displayed at "Channel", the starting and ending times of record packaging at "Record Time", the size (MB) of this record file at "Size", and the type of this record file at "Type", with the two options of normal and alarm. The operation of outputting data from the selected record to the USB memory can be performed in the "Backup" check box at the bottom right corner of the screen;
- 2. When you have selected a certain record file from the record list by moving the cursor up and down, press "Enter" to enter the playback screen;
- 3. If "Record Time Superimposition" has already been enabled in the "Basic Setup" screen, the playback screen will display the clock of recording; if "Record Time Superimposition" is set as "Off" in the "Basic Setup" screen, there will be no clock display on the playback screen;
- 4. During record playback, press "Slow" for slow play, press "Fast Forward" or "Fast Backward" for fast forward or backward play, or press "Pause/Frame" for pause or frame-by-frame play; press "Exit" to exit from the playback screen and return to the menu of the previous level;

#### 3.4 Backup

Enter the "File List" (see 3.3 Video Search) screen for the backup operation.

The record file may be backed up by a USB storage device. Before the record file is backed up, the user must insert the peripheral storage device into the USB2.0 slot of this unit. This product supports the plug-and-play operation of USB devices.

Move the cursor up and down in the Detailed File List screen to select a certain record file. After "Enter" is pressed in the "Backup" check box, a " $\sqrt{}$ " will appear in this box, indicating that this record file has been selected. The move the cursor to the option box on the right and click "Backup", when the screen will display the backup progress message of the file, as shown below:



#### Notes:

When the available space of the backup device is less than the capacity of the record file, the system will prompt the user with "Not Enough Space";

After the record file has been backed up, unplug the backup device directly; See Chapter 4 "DVR Network" for network backup.

#### 3.5 Hard disk management

Enter the Hard disk Management screen from "Main Menu"  $\rightarrow$  "HDD", as shown below:



**STATUS**: After connecting the hard disk, the system will detect if the hard disk is correct automatically. If the hard disk needs formatting, "Unformatted" will be displayed in the hard disk state, when you can click "HDD Format " to format the hard disk. If the system detects any available hard disk, the hard disk state will be "ONLINE";

**ALL/FREE:** referring to the total storage capacity and current remaining storage capacity of the hard disk;

**TIME LEFT**: referring to the time remaining for recording based on the currently set picture "resolution" and "quality";

**FORMART:** Click the check box, a " $\sqrt{}$ " will appear in this box, indicating that this HDD has been selected.

**OVERWRITE:** ENABLE: The hard disk will overwrite the earliest record when its memory is full; DISABLE: Recording will stop when the memory of the hard disk is full;

**HDD FORMART**: If the hard disk is used for the first time, it is often necessary to format the hard disk. Click the "Format HDD" button, and then click "Enter" for formatting in the pop-up prompt message dialog box, otherwise click "Cancel". After clicking "Format HDD", the system will prompt "You will lose all data by formatting the hard disk. Will you continue?" Then press "Enter", and the system will prompt "Formatting..." and then "Formatting Successfully". The system will restart automatically;

**USB FORMART:** formatting the USB disk.

The "Default" button is used to restore the factory default values.

Note: In order to connect the hard disk data on the DVR securely, we recommend that the hard disk must be formatted before the first time of recording.

#### 3.6 Basic setup

Enter the Basic Setup screen from "Main Menu"  $\rightarrow$  "Basic", as shown below:



The Basic Setup screen includes the 6 options of System Language, Time Setup, User Password, Display Setup, Video/Audio Setup and Exit.

#### 3.6.1 System language

Move the cursor to the "LANGUAGE" option (the icon is enlarged and highlighted to indicate selection), and press "Enter" to enter the setup screen of this option, as shown below:



The system has optional multiplex languages ,after choosing the language, click "Apply" button to save, and it will go into effect after system restart.

#### 3.6.2 Time setup

Move the cursor to the "DATE/TIME" option (the icon is surrounded by a yellow frame to indicate selection), and press "Enter" to enter the setup screen of this option, as shown below:



The system time, date format, time format, time zone and summer time can be set up in this screen.

#### 3.6.3 User password



DEVICE ID: Enter digits directly to set up the DVR number;

**PASSWORD**: Press "Enter" to select "ENABLE" or "DISABLE" the user password. If this option is enabled, the user has to enter his/her password upon logging-in to log in successfully; if it is disabled, the main menu of the system can be logged in directly;

**User Password**: This option is operated with keys or the mouse. Enter digits directly to set the user password;

**Admin password**: This option is operated with keys or the mouse. Enter digits directly to set the administrator password.

#### Notes:

- This unit has no initial password. When you're setting up passwords, it is recommended that the two passwords are set up together. If any set password is forgotten, please contact your dealer or the technical department of the manufacturer.
- Only the locking, channel changeover, video search, log search, backup, PTZ control, mute, manual recording and stopping recording functions are available to normal users.

#### 3.6.4 CAMERAS

Move the cursor to the "CAMERAS" option (the icon is surrounded by a yellow frame to indicate selection), and press "Enter" to enter the setup screen of this option, as shown below:

	NAME	POSITION	COLOR	PREVIEW
CH1	CH1	TOPLEFT	SETUP	ON 🔽
CH2	CH2	TOPLEFT	SETUP	ON 🔽
СНЗ	CH3	TOPLEFT	SETUP	ON 🔽
CH4	CH4	TOPLEFT	SETUP	ON 🔽
PREVIEW TIME ON V RECORD TIME ON V				
CHA	NNEL SEQ.	NEXT PAGE DEF	AULT AP	PLY EXIT

**Name:** Move the cursor to the input box of this option, and press "Enter" to enter the input screen of this option. Numerical, English and Chinese pinyin input methods are supported;

**Position:** Move the cursor to this option, and press "Enter" to change over between name positions; there are 5 setup options: top left, bottom left, top right, bottom right and off;

**Color:** Move the cursor to "Setup" of the corresponding channel, and press "Enter" to enter the color setup screen, as shown below:

(	OLOR SET	ГUP	
CHROMATICI	ГY : ——		— 31
BRIGHTNESS			31
CONTRAST			31
SATURATION			— 31
	DEFAULT	APPLY	EXIT

Press "Enter" or drag the cursor directly to set the picture color, including the 4 options of chromaticity, brightness, contrast and saturation. Press "Enter" to exit and save the set parameters.

#### Preview:

On: The picture of this channel can be seen in the Video Preview screen;

Off: The Video Preview screen of this channel has been shielded, but there is no effect on the recording of this channel;

**Preview time**: On: The system date and time are displayed right above the Video Preview screen;

Record Time : On: A clock can be displayed in the playback of the current record file.

Channel SEQ: Setup channel in sequence waiting time.

#### 3.6.5 VIDEO/AUDIO

Move the cursor to the "VIDEO/AUDIO" option (the icon is surrounded by a yellow frame to indicate selection), and press "Enter" to enter the setup screen of this option, as shown below:



**CAMERA SYSTEM**: Left-click or press "Enter" to change over between the two camera systems of PAL and NTSC;

**Volume setup:** Move the cursor to "Volume Setup", left-click or press "Enter" to enter the Volume Setup screen, and press "Left", "Right" or drag the cursor with the mouse directly to adjust the volume.

**Note**: The system will restart when the VGA resolution or the camera resolution is modified.

### 3.7 Advanced

Enter the following screen from "Main Menu"  $\rightarrow$  "Advanced":



The advanced functions include the 7 options of alarm setup, system information, motion detection, mobile phone monitoring, system maintenance, PTZ Setup and Network Setup.

#### 3.7.1 Alarm

Move the cursor to the "Alarm" option (the icon is surrounded by a yellow frame to indicate selection), and press "Enter" to enter the setup screen of this option, as shown below:

	ALAF	RM SETUP	,		
I/O CHANNEL I/O ALARM	CH1 N0	CH2 OFF	CH3 OFF	CH4 OFF	
HDD LOSS VIDEO LOSS	OFF -	HDD S	PACE	OFF	
ALARM MANAGE	OUTPUT POST RE	10ST C1MINT	BUZZER	10S-	
EMAIL SETUP					
🔍 NO:norm	al open	NC:nc	ormal cl	ose	
N	EXT PAGE	e defaul	T APPLY	EXIT	

I/O CHANNEL/ALARM: Each channel corresponds to an I/O state alarm, when the alarm input of a channel is valid, the alarm record of the corresponding channel will be started.

NO: Normally on.

NC: Normally close.

**OFF:** shutdown alarm of this channel.

Note: When an alarm is produced, a red letter "I" will be displayed above the corresponding channel.

**HDD LOSS**: On: When the system cannot identify the hard disk, an alarm will be generated, and a red mark "H" will be displayed at the bottom left corner of Channel 1 in the lower part of the Video Preview screen.

**HDD SPACE**: On: When the remaining space of the hard disk is less than 500M, the lower part of the Video Preview screen will display: "The space of the hard disk is not enough. Please change the disk after shutdown."

**VIDEO LOSS**: On: When the video of a certain channel is lost, this channel will display in the lower part of the Video Preview screen: "Video Loss".

ALARM MANAGE OUTPUT: the time of the DVR outputting the alarm signal to

the outside when an alarm is generated, with the options of 0sec, 10sec, 20sec, 40sec and 60sec

**BUZZER**: the time of buzzer ringing when an alarm is generated, with the options of 0sec, 10sec, 20sec, 40sec and 60sec

**Post Alarm Recording**: the time of record delay after the motion detection alarm, with the options of 30sec, 1min, 2min and 5min

Email SETUP: This unit supports motion detection and e-mail alarm.

Email setup Prerequisite: The mainframe must be connected to the WAN. See Chapter 4 "DVR Network" for the connection method.

When motion detection is triggered, the system will extract a picture at the time of triggering and send it to the corresponding mailbox.

	EMAIL SETUP
EMAIL	ON 🔽
SSL	
SMTP PORT	00025
SMTP	smtp. ****.com
SEND EMAIL	abcd@*****.com
SEND PW	*okotokok
RECV EMAIL	efgh@*****.com
	DEFAULT APPLY EXIT

**SSL**: a secure link transmission protocol, whose "Off" or "On" state is determined by the mailbox server. "Off" is usually chosen. But "GMAIL".

**SMTP PORT**: the mailing port of the mailbox server, usually being 25, with the exception of a few mailboxes, such as the mailing port of the GMAIL server whose port number is 465.

**SMTP**: the server address of the mailbox used, for example, the SMTP server of the Yahoo mailbox is smtp.mail.yahoo.com; please check this address to your mailbox supplier.

SEND EMAIL: the mailbox address used to send mails.

SEND PW: the password of the mailbox used to send mails.

**RECV EMAIL**: the address used to receive the picture transmitted after the DVR motion detection alarm. If the alarm frequency of the system is high, the number of pictures sent will also be larger. Please pay attention to the space of your mailbox timely lest the normal operation of the mailbox be affected due to an excess number of pictures.

#### 3.7.2 System info

Enter the System Info screen from "Main Menu"  $\rightarrow$  "Advanced Functions", as shown below:



You can inquire about the software version number, whole unit version number, MAC address and serial number in this screen.

#### 3.7.3 Motion detection

Enter the Motion Detection screen from "Main Menu"  $\rightarrow$  "Advanced ", as shown below:

20				
MD CHANNEL	CH1	CH2	CH3	CH4
STATUS	OFF 🔽	OFF 🔽	OFF 🔽	OFF 🔽
SENSITIVITY	4	4 🔽	4 🔽	4 🔽
MD AREA	SETUP	SETUP	SETUP	SETUP
MD CHANNEL	CH5	CH6	CH7	CH8
STATUS	OFF 🔽	OFF 🔽	OFF 🔽	OFF 🔽
SENSITIVITY	4	4 -	4 -	4
MD AREA	SETUP	SETUP	SETUP	SETUP
	NEXT PAG	E DEFAL	JLT APPI	LY EXIT

**MD Channel and STATUS**: Each channel has a corresponding switch. Press "Enter" to select motion detection "On" or "Off".

**SENSITIVITY**: Each channel has a corresponding sensitivity setting, with the 4 levels of 1, 2, 3 and 4, in which 4 is the highest. Press "Enter" for changeover.

**MD AREA:** Each channel has a corresponding motion detection area setting. Move the cursor to "Setup" of the corresponding channel, and press "Enter" to enter the motion area setup screen of this channel, where a red block indicates motion detection is activated for this area and a transparent block indicates motion detection is not activated, as shown below:

	1	

#### Operating prompt:

Remote controller operation: Use "H" (display mode) to select full screen or blank; Mouse operation: Left-click the mouse and drag the motion box to set the area of dynamic detection.

#### Motion detection setup procedures:

- A. Turn "On" the corresponding channel in the "Channel Switch" option;
- B. Set the sensitivity level as necessary, usually set at 3 or 4;
- C. Set the motion area of the corresponding channel in the "Area Setup" option;
- D. In the "Recording Mode" screen, set the corresponding channel to "On" in the "Channel" option;
- E. In the "Recording Mode" screen, select "Timing Recording" in the "Recording Mode" option, also click "Record Time Configuration" to enter the Record Time Configuration screen and set the corresponding time to alarm recording (see timing recording in "Recording Mode" for the setup method).

After the setup has been done and motion detection triggered, a red letter "M" will appear in the screen of this channel. See "Alarm processes" in Section 3.6.1 for alarm processing.

#### 3.7.4 Mobile phone monitoring

The mobile phone monitoring function of this series DVR is supported by mobile phones of the **Windows Mobile and Symbian** operating systems, such as Dopod P660, Nokia N78 and Nokia 95.

#### The operating procedures are as follows:

#### Setup method of mobile phone monitoring at the DVR end:

Enter the following screen from "Main Menu"  $\rightarrow$  "Advanced Functions"  $\rightarrow$  "Mobile Phone Monitoring":



Set cell phone login user name and password, defaults are empty.

**Service port**: with a setting range of 1,024—65,535; this port has to be mapped on the router, and its setup method is the same as the mapping method of the port in network setup.

For more detailed mobile phone installation and user manual, please refer to the Mobile Phone User Manual in the CD

#### 3.7.5 System maintenance

Enter the "Maintain" screen from "Main Menu"  $\rightarrow$  "Advanced", as shown below:

AUTO RESET SETTINGS	ON V EVERY DAY	¥ [	00 : 00
SYSTEM UPD	DATE DEFAU	LT SETTING	S RESTART
		DEFAULT	APPLY EXIT

**AUTO RESET**: When this option is set to "On", the user can set the restart frequency and time of this device himself/herself.

**System update**: Copy the update file to the root directory of the USB disk, then insert the USB disk into the USB slot of this unit, and press this button for system updating. The screen will display the progress box of system updating until updating is completed.

The power system should not be interrupted during updating. **DEFAULT SETTING**: Restore the system parameters to the default settings. **RESTART:** Restart this DVR.

#### 3.7.6 PTZ

Enter the "PTZ" screen from "Main Menu"  $\rightarrow$  "Advanced", as shown below:

٠.				
CHANNEL	CH1	CH2	СНЗ	CH4
PROTOCOL	PELCO-D	PELCO-D	PELCO-D	PELCO-D
BAUD RATE	9600 🔽	9600 🔽	9600 🔽	9600 🔽
DATA BIT	8 -	8 🗸	8 🗸	8 -
STOP BIT	1 -	1	1	1
VERIFY	ODD 🔽	ODD 🔽	ODD 🔽	ODD 🔽
ADDRESS	001	001	001	001
AUTO CRUIS	SE OFF	0FF-	0FF -	<b>OFF</b>
	NEXT	PAGE DEF	AULT APPL	YEXIT

Channel: selecting the channel to which the PTZ camera is connected.

**Protocol**: selecting the dome protocol of the corresponding brand and model, with two options, Pelco-D by default

**Baud rate**: selecting the baud rate used by the dome, with the 4 options of 1200, 2400, 4800 and 9600

Data bit: with the options of 5, 6, 7 and 8, 8 by default

Stop bit: with the options of 1 and 2, 1 by default

Verify: with the 5 options of None/Odd/Even/Mark/Space, None by default

Address : Complete the PTZ code of the corresponding channel.

**AUTO CRUISE**: Turn on / off the channel PTZ cruise function. If selected ON the PTZ of this channel could be control by the "START CRUISE" in the right-click menu.

You must set the "protocol", "baud rate" and "address code" correctly in order to make sure the PTZ works well.

#### 3.7.7 Network setup

Enter the "Network" screen from "Main Menu"  $\rightarrow$  "Advanced", as shown below:

TYPE	STATIC
MEDIA PORT	09999
WEB PORT	00124
IP ADDRESS	192. 168. 001. 197
SUBNET MASK	255. 255. 255. 000
GATEWAY	192. 168. 000. 001
DNS	210.021.196.006
UPNP	
DDNS SETTI	NGS DEFAULT APPLY EXIT

TYPE: support STATIC, DHCP and PPPOE

STATIC: configure the network parameters manually

DHCP: auto configure

After selecting the DHCP mode, restart the system after confirmation. After starting, the system will establish a connection with the DHCP server automatically. When this is successful, this unit will be allocated an IP address, which will be displayed on the screen.

PPPOE: broadband dial-up network access, as shown below:

	NETWORK SETUP
TYPE	PPP0E
MEDIA PORT	09000
WEB PORT	00080
PPPOE NAME	
PASSWORD	
DNS	202. 096. 128. 166
DDNS SETT	INGS
	DEFAULT APPLY EXIT

PPPOE user name and password: Fill in the PPPOE user name and password provided by the Internet service provider.

**Media port:** the port number used in the private protocol communication between the DVR and the PC end, usually being 9000 by default. If this port of the PC is occupied by any other service, please modify it to an unused port.

WEB port: usually being 80 by default. If the administrator modifies the WEB port to any other port, such as 88, you have to postfix the IP with the port number, and enter "http://192.168.1.197:88" in the address bar when accessing the DVR via the IE.

IP address: allocating an IP address depending on the network environment of the DVR

Subnet mask: filling in a subnet mask in depending on the network environment of the DVR

**Gateway:** Setting the gateway depending on the network environment of the DVR. If there is no router device in the network, please allocate an IP address on the same network segment. If there is a router device in the network, you have to set the corresponding gateway.

**DNS**: setting the IP address of the domain name server (DNS varies from city to city); you can refer to the domain name server configurations of the PC.

UPNP: When the UPNP function is on(UPNP function on the router end is also on of the router setting), then the DVR will reflect the port and IP into the router automatically. DDNS Setup

Click "DDNS Setup" to enter the following screen:

	DDNS SETUP
DDNS	ON 🔽
SERVICE	dyndns 🔽
HOST NAME	dvrtest99.dyndns.com
USERNAME	dvrtest99
PASSWORD	xotototok
	DEFAULT APPLY EXIT

**DDNS**: with the two options of "ON" and "OFF"; when a domain name resolution server is available, please select DDNS "ON";

SERVICE: The user may select his/her desired DDNS server

himself/herself, with the 3 options of 3322, dyndns and perfecteyes;

Host name: Enter the host name registered on the dynamic domain name resolution server;

**User name**: Enter the user name registered on the dynamic domain name resolution server;

**Password**: Enter the password registered on the dynamic domain name resolution server.

#### 3.8 Domain name application

1) Create account

First open <u>www.dyndns.com</u>, and click the Create Account option: Fill in the account information.

	Create an ac	count or log in to continue			
	Username:	dvrtest001			
	Password:	•••••			
	Confirm password:	•••••			
	Email:	wing225@163.com			
	Confirm email:	wing225@163.com			
	Subscribe to:	DynDNS.com newsletter (1 or 2 per month)			
		Dyn Inc. press releases			
		Remove HTML formatting from email			
	Security Image:	8 5 6 4 7			
		Enter the numbers from the above image: 85647			
	☑ I agree with the <u>a</u>	cceptable use policy (AUP) and privacy policy.			
		Create Account			
One I	more step to	o go			
've sent an email to wing225@163.com, to verify your account. Please check your inbox and c on the confirmation link.					
ou do not rec	I do not receive the email in the next few minutes you can try resending it.				

Thanks for choosing DynDNS.com!

After confirmation, the system will prompt that the verification message has been sent to the designated mailbox, as shown below:

#### 2) Activate account

w

clic If v

Log in your mailbox and open the confirmation link sent from <a href="mailto:support@dyndns.com">support@dyndns.com</a>, as shown below:



Click the link below and enter the website to activate the account.

3) Login

After successful activation, open the home page <u>http://www.dyndns.com/</u> to log in. After successful login, click "Services"  $\rightarrow$  "Dynamic DNS", as shown below:



4) Application for free domain name

After entering the "Dynamic DNS Services" screen, click "Dynamic DNS Free" to apply for a free dynamic domain name, as shown below:

Manage My Account

Pricing Details

Get Started

Get Started

Manage Hosts

Screenshot

,,

#### Dynamic DNS Services

Our trademark service designed for users with dynamic IP addresses. Sign up for service today and avoid paying high prices for a static IP.

 $\underline{Dynamic\ DNS\ Pro:} \ \text{Our\ premium\ Dynamic\ DHS\ upgrade\ provides\ 25} \\ additional\ hosts,\ access\ to\ phone\ support\ and\ logging,\ and\ \underline{prevents\ accounts} \\ \underline{from\ expiring.} \\ \hline$ 



Dynamic DNS Free Our free DNS tool with many domains to choose more and integrated ORL edirection functionality.



<u>Custom DNS</u>: Dynamic DNS **service for your own domain** (e.g. *www.yourdomain.com*) provides **stable**, **reliable and globally redundant** DNS hosting for personal and business sites.

#### Enter the "Dynamic DNS Free" screen, as shown below. Click "

#### **Dynamic DNS Free**

Dynamic DNS Free (DDNS) allows you to create a hostname that points to your home or office IP address, providing an easy-to-remember URL for quick access. We also provide an update mechanism which makes the hostname work with your dynamic IP address. We continue to offer this service free to the Internet community as we have done so for nearly 10 years.

#### Capabilities and Features

- Get five (5) hostnames in <u>88 available domains</u> for free.
- · Forward web requests or mark host offline for maintenance or downtime.
- Configure MX records for flexible mail routing.
- Update host using <u>ddns update clients</u> for a wide variety of platforms.
- Modify DNS TTL values for fast propagation or reliable static IP caching.
- Deliver your DNS records to 5 DNS servers in 5 tier-1 datacenters around the globe.
- · Query volume up to 648,000 queries/month

Enter the hostname, select the service type and then enter the dynamic IP address (usually being the dynamic IP address of the network of the DVR host) to be tied in the Add New Hostname screen, as shown below. Complete the application for the dynamic domain name as prompted.

#### Add New Hostname

Note: You currently don't have any active <u>Dynamic DNS Pro upgrades</u> in your account. You cannot use some of our Host Service features. Paying for an Dynamic DNS Pro upgrade will make this form fully functional and will add several other features.

Hostname:	dvrtest001
Wildcard Status:	Disabled [Want Wildcard support?]
Service Type:	<ul> <li>Host with IP address [2]</li> <li>WebHop Redirect [2]</li> <li>Offline Hostname [2]</li> </ul>
IP Address:	59.40.212.55 Use auto detected IP address 59.40.212.55. III value is 60 seconds. <u>Edit TTL</u> .
Mail Routing:	Yes, let me configure Email routing. [?]
	Add To Cart

dvrtest001.dvrdns.org added to cart. You r	nust checkout to activ	ate.	
cart contains free services only. You will not be asked for credit card	information.		
Upgrade Options			
Free accounts allow only five Dynamic DNS hosts.			
• To add more and enjoy additonal benefits for only \$15.00 per year	, purchase Dynamic DNS P	ro 3.	
soull To get Dynamic DNS for your own domain, use Custom DNS.			
ynamic DNS Hosts			
dvrtest001.dvrdns.org -	remove	\$0.00	
Please enter coupons in the box below and click "Add Coupon".			
	Sub-Tot	al: \$0.00	
Add Coupon			
Add Coupon			

#### Free Services Checkout

Once you have confirmed the contents of your cart your services will be instantly activated.

Servi	ice	Period	Price
Dynamic DNS Hosts			
dvrtest001.dvrdns.org		-	\$0.00
		Sub-Total:	\$0.00
		Activate Ser	vices >>

#### Host Services

Add New Hostname - Host Update Logs

† Host Services

dvrtest001.dvrdns.org successfully activated.			
<u>Hostname</u>	<u>Service</u>	<u>Details</u>	Last Updated
dvrtest001.dvrdns.org	Host	59.40.212.55	Dec. 01, 2009 10:17 PM

#### 3.9 Port forwarding

If the IP address of the router is 192.168.1.1. After this IP has been entered in the IE address bar, a login prompt box will appear, as shown below:



Click "Enter" to enter the main screen of the router, as shown below:

192. 168. 1. 1/StaRouter.htm						
LINKSYS <sup>®</sup> A Division of Cisco Systems, Inc.					Firmer	re Version: 1.0.0
			v	Vireless G Broad	Iband Router	WRT54G2
Status	Setup Wirele	ss Security	Access Restrictions	Applications & Gaming	Administration	Status
	Router   Loc	al Network	Wireless			
Router Information	Firmware Version: Current Time: MAC Address: Router Name: Host Name:	1.0.01 build 003, I Mon, Dec 21 2005 00:E0:4C:77:3E:30 WRT54G2	Mar. 26, 2008 00:22:50		Firmware Vers Router's current Current Time, time, as you set Tab. MAC Address. Router's MAC Ad by your SP.	iton. This is th firmware. This shows th on the Setup This is the ddress, as see
Internet Configuration Type	Login Type: Login Status:	PPPoE	isconnect		Router Name. 1 specific name fo which you set of Tab. More	his is the r the Router, n the Setup
	IP Address: Subnet Mask:	58.250.193.144 255.255.255.255			Configuration shows the inform by your ISP for o the Internet. This	Type. This nation require connection to information
	Default Gateway: DNS 1:	58.250.192.1 210.21.196.6			Was entered on You can Conne Disconnect you here by clicking	the Setup Tab ct or ir connection on that button.

Click "Applications& Gaming ", as shown below:

Start	ort Triggerin Por	t Range	DMZ	1	c
Start	Por	t Range			
Start	Por	t Range			
Start					
	End	Protocol	IP Addres	8.5	Enable
to	80	Both 🛩	192.168.1.	19	$\checkmark$
00 to	9000	Both 🛩	192.168.1.	19	
061 to	15961	Both 💌	192.168.1.	19	
10	0	Both 💌	192.168.1.	0	
to	0	Both 💌	192.168.1.	0	
to	0	Both 💌	192.168.1.	0	
to	0	Both 💌	192.168.1.	0	
to	0	Both 💌	192.168.1.	0	
to	0	Both 🛩	192.168.1.	0	
to	0	Both 💌	192.168.1.	0	
	100         to           100         to           361         to           10         to	to         00           100         to         9000           161         to         15961           10         to         0           10         to         0           10         to         0           10         0         0           10         0         0           10         0         0           10         0         0           10         0         0	to         80         Both         No           100         to         9000         Both         No           101         15961         Both         No           100         Both         No         Both         No           100         Both         Both         No         Both         No           100         Both         Both         No         No         Both         No         No <t< td=""><td>100         100         Both         192.168.1.           100         1000         Both         192.168.1.           161         15961         Both         192.168.1.           160         Both         192.168.1.           160         Both         192.168.1.           100         Both         192.168.1.</td><td>ito         80         Both ×         192.166.1.19           i00         to         9000         Both ×         192.166.1.19           i61         to         15981         Both ×         192.166.1.19           ito         15981         Both ×         192.166.1.09           ito         0         Both ×         192.166.1.0           ito         0         Both ×         192.166.1.0</td></t<>	100         100         Both         192.168.1.           100         1000         Both         192.168.1.           161         15961         Both         192.168.1.           160         Both         192.168.1.           160         Both         192.168.1.           100         Both         192.168.1.	ito         80         Both ×         192.166.1.19           i00         to         9000         Both ×         192.166.1.19           i61         to         15981         Both ×         192.166.1.19           ito         15981         Both ×         192.166.1.09           ito         0         Both ×         192.166.1.0           ito         0         Both ×         192.166.1.0

As shown above, fill in the IP and the port number in the corresponding files, and select "Both" in [Protocol]. The tick below [Enable] denotes "selected". After setup, click "Save Setting" to save.

80 stands for the HTTP port, 9000 for the media port and 15961 for the mobile phone port. All these ports can be modified in the DVR.

Note: You must change if the default port of the DVR has been used by other service

### **Chapter 4 DVR network**

#### 4.1 Functional characteristics

In network operations, software installation is realized by the IE browser of the operating system itself, which is simple and convenient. The DVR supports LAN and WAN access, as well as IP and domain name access.

#### 4.2 Installation and download of controls

#### Automatic installation of plug-ins unit:

First add the IP address of the DVR as a reliable site of the system. For example, if the IP address of the DVR is 192.168.1.100, first open IE Attributes  $\rightarrow$  Internet Options  $\rightarrow$  Security Options for an ordinary XP system, as shown below. This can be set in 9 steps.



After setup, enter the IP address in the IE address bar, and complete the automatic installation of the plug-in unit as prompted.

#### 4.3 IE login

Log in the system after the plug-in unit has been installed. For example, if the domain name of the DVR is dvrtest05.eicp.net and its port is 80, enter the domain name in the IE address bar, as shown below, enter the user name and the password, select "LAN" or "INTERNET" depending on the network environment, and click "Login" to log in the client end or access the DVR end remotely.



**Note:** If the DVR host is in an LAN, but you have chosen the "INTERNET" option, the effect of the preview image will be non-real-time.

#### 4.4 Real-time preview

After logging in the client end successfully, enter the real-time preview screen directly and perform video connection automatically, as shown below:

#### Play control:

Setup" for the saving directory)

1 4: dividing the screen into 1, 4 parts respectively;

**PTZ control:** controlling the upward, downward, leftward and rightward motion of the PTZ remotely, and also the zooming, focusing , aperture and preset points of the lens



#### 4.5 Record playback

Click "PLAYBACK" to enter the Record Playback screen, as shown below:



First select the date of the record to be played and the channel and record types, and then click "Search". The eligible record files will appear in the file list, with the bold numbers denoting dates with record data, as shown in the figure above. Select the file to be played back, and double-click this file or click "PLAY" to play it. Click "Backup". This file will be saved in the designated directory directly (see Figure 4.10 for the saving directory). After playing over or download over you can press the button of "H.264 –AVI" to convert the downloaded video file .

#### 4.6 Recording mode

Click "Setup"  $\rightarrow$  "RECORD" to enter the remote recording mode, as shown below:



The setup method is the same as the mainframe menu. See "Recording Mode" in Chapter 3 for details.

#### 4.7 Alarm setup

Click "Setup"  $\rightarrow$  "Alarm " to enter the Alarm Setup screen, as shown below:



The setup method is the same as the mainframe menu. See "Alarm Setup" in Chapter 3 for details.

#### 4.8 PTZ control

Click "Setup"  $\rightarrow$  "PTZ" to enter the PTZ Control mode. See Figure 5-6:



See Chapter 3 "Network Setup" in this manual for the setup method.

#### 4.9 Network setup

Click "Setup"  $\rightarrow$  "Network Setup" to enter the Network Setup mode, as shown below: See Chapter 3 "Network Setup" in this manual for the setup method.

🚳 SETUP			$\mathbf{X}$
RECORD			
ALARM	TYDE		
PTZ		STATIC	
NETWORK	MEDIA PORT	9005	
TCP/IP DDNS	WEB PORT	85	
SETTING	IP ADDRESS	192 . 168 . 1 . 244	
INFO	SUBNET MASK	255 . 255 . 255 . 0	
	GATEWAY	192 . 168 . 1 . 1	
	DNS	210 . 21 . 196 . 6	
		DEFAULT APPL	Y

#### 4.10 System setup

Click "Setup"  $\rightarrow$  "Setting" to enter the Setting screen, as shown below:

🕸 SETUP		$\overline{\mathbf{X}}$
RECORD		
ALARM	INTERNET 256	
PTZ	FILE SAVE PATH D:\	
NETWORK		
SETTING		
SETTING	IE PASSWORD	ON Y
\	USER PASSWORD	*****
INFO	RE-ENTER	инини
	ADMIN PASSWORD	*****
	RE-ENTER	888888
		DEFAULT APPLY

**INTERNET:** setting the code stream; the higher the code stream is, the clearer the remote image will be, but the network bandwidth must be high, otherwise the image may have a delay.

File SAVE PATH: setting the record saving directory during remote recording and remote backup

**IE password:** setting the IE login password (Note: This password may be cleared in the main menu of the DVR.)

#### 4.11 Host info

Click "DVR HOST" to enter the Host Info screen, as shown below. View the operating state of the hard disk, the time remaining and the software version and MAC address of this system.

**Export:** export configuration information.

Import: import the saved configuration.

徽 SETUP			$\mathbf{X}$
RECORD			
ALARM			
PTZ	HDD(ALL/FREE)		
NETWORK	TIME LEFT		
SETTING			
INFO			
DVR HOST	MAC ADDRESS		
CLIENT SOFT			
	EXPORT	IMPORT	

### Chapter 5 Client software & Player

#### 5.1 Client software

Open the Client software file " , operate one of these two files and install it according to the remarks. Double click the program icon on the desktop after the installation. Then a Login interface come out as below:

_	USER LOGI	N	X
IP ADDRESS :	192.168.1.197	~	
MEDIA PORT :	9999		
PASSWORD :			
NETWORK :	INTERNET	~	
	LOGIN	RESET	

**IP ADDRESS:** Enter the IP address or Domain Name of the DVR.

MEDIA PORT: Enter the port number, the default is 9000

PASSWORD: Enter IE password

**NETWORD:** Select web styles, LAN is the local area network, INTERNET is the wide area network

Notice: After the successful login, the interface is the same as that of IE. Please refer to the instruction in Chapter 4.

#### 5.2 Video Player

Open the PLAYER installation program PlaybackSetup.exe in the CD Disk. After the successful installation according to the remarks, operate the program icon(Playback software) on the desktop.

🏠 Playback - Version 2.3.0.4	
Ele Setting View Blay Help	

Click "File (F) " as shown in the following image, select 'open the local files (F) '



When opening the root of the record file, please select the format as .264, as shown in the following image:



There will be .264 files in the file list, select one of the files to play. Click 'OPEN' as

shown in the following image:



Then click 'PLAY' option as shown in the following image:



After clicking 'PLAY' option or click the button \_\_\_\_\_ at the bottom of the window, to enter the following interface as shown in the following image:

Playback - Version 2.3.0.4	
Eile Setting View Play Help	
	2010 08 02 10 29 157
	02/08/2010 12 13 14 15 16 17 18 19 20 21 22 23 30 35 40 45 50 55
	J    J
10:29:57 02/08/2010 ×1 🕨 ┥ 🗉 🔳 🔲 🛩 😕 <	< I >> I 🖡 🕼 🏢 🔿 ST 🐰 🖄 💵

Function	Definition	Function	Definition
lcon		lcon	
1	Recording Schedule		All video
	Play Forward, Play backward	⊳	Increase video
	Pause, STOP	ST	Start Video Operation
<	Backward /forward frame	¥	File Cut
<<   >>	Slow/Normal/Fast	×	File Deletion
	Next Hour	avi	AVI Format transmission
1	Capture bitmap	6	OSD
≪□	Decrease video	Ţ	Volume Control

Note: 1. Double click the image to enlarge the image

2. When converting the AVI format, you should click ST button. Then click AVI to select the time periods

#### Audio Setup:

Click 'SETTING'—'AUDIO CHANNEL SETUP' — 'Normal video Bar 'as shown in the following image:

A Playback - Version 2.3.0.4		
<u>File Setting View Play Help</u>		
Video Play Setting	•	
Audio Channel Setting		Normal Video Bar
Video Channel Split Setting Processor <u>A</u> mplification Control		Erst Video Bar Of Multiple Disk Second Video Bar Of Multiple Disk Third Video Bar Of Multiple Disk Fourth Video Bar Of Multiple Disk

Select the channel audio to be played, then click 'OK', as shown in the following instructions:

ound Sett	ng			
las Soun	d Data			
Channel:	Channel1		-	
✓ The c	hannel has so	ound data		

#### Appendix 1. Q&A

1. How to recover password if forgotten?

A: Please contact technicians from vender or manufacturer if you have forgotten the password. Please set a safe password easy to remember (don't set simple password like 123456 if you need more safety).

- No video output signal?
   A: Please confirm that the video output port is connected to the VIDEO OUT, and ensure BNC in DVR interface is in good connection, whether BNC cable is used for too long time and is aging, and ensure N system/P system selection is right.
- 3. The system can not detect the hard disk? A: If the system can not detect the hard disk, please confirm that hard disk data cable is connected well to power cable, hard disk's interface in main board is good, we recommend to re-plug hard disk data cable again; please confirm power adaptor is DC12V 5A, you can replace the power supply test; Seagate brand hard disk is desirable.
- What is the affect to equipment by DVR's heat?
   A: DVR will produce certain heat during its running, please put DVR at a safe place with good ventilation, to avoid to damage stability and service life of the system because of high temperature for long-time.
- 5. How long can DVR record if 1000G hard disk is used? A: day =  $1000G^{1000}(200MB/chh * 16ch * 24h) \approx 13$
- 6. DVR's remote controller can not work, but the monitor screen is right and the panel buttons can be used properly?

A: If the controller is pointing to the IR signal on equipment front panel, but the operation is still invalid, please check the batteries in remote controller, if above problems are excluded, please check the health of the remote controller.

7. The "manual recording" and "stop recording" in front panel and shortcut menu can not work?

A: This function can only work when the mainframe is not under recording status, only timing recording is started and it can work in the non-selected period.

Is playback available while recording? Is multi-channel playback available?
 A: Yes, this system can support playback while recording. It can support 4 channels playback at the same time.

For safety of the document, you can not delete partial records. If it is necessary, you can format the hard disk.

- 9. E-mail alerting is not functioning?
  A: Please follow the instruction strictly, check whether there is any letter error or unnecessary space, and please check your mail server's functionality if SSL ordinary shutdown.
- Can not find any information record when playback?
   A: please check the hard disk data cable connection, and whether system time is adjusted illegally. Try it several times, and test whether the hard disk is damaged if above still appears.
- 11. DVR can not control the PTZ after setup?

#### A: Please test for the following reasons:

- The RS485 cable A at B.
- PTZ decoder setting, connection and installation is incorrect
- PTZ incorrect setup in the DVR
- 12. Motion detection does not work?

A: Check the motion detection time and motion detection zone and make sure that they are right setup, and check the sensitivity setting.

- 13. Alarm does not work?A: Check the correctness of alarm setting and alarm connection, and make sure that alarm signal input is correct.
- Remote login interface is available, but show "Login failed" when login?
   A: 1) Please check whether the account matches the password you entered, if you forget the password, please enter "User Password" interface of mainframe, and click "Clear IE Password", and login again. 2) Please check DVR local network and remote access network. Too low network speed will cause failed login. Please try it for several times.
- After successful remote access, showing "user is configuring.... "?
   A: Please exit all mainframe menus and keep preview status, then, remote setup is available and storable.
- 16. There is drag mark on screen when real-time monitoring in client end, even short delay?

A: 1) It's normal if less than 10 seconds; 2) Confirm the DVR environment network speed is guaranteed.

17. Serious image delay during cell phone monitoring?

A: 1) Change the mobile wireless network into 3G or WIFI; 2) Confirm the DVR environment network speed is guaranteed; 3) Do not put cell phone in a weak signal area

### Appendix 2. HDD capacity

HDD Space

Record quality	best	fine	normal
Capacity(MB/chh)	200	150	100

EX: if you have a HDD capacity to 1TB, you can calculate it like this:

day = 1000G\*1000/(200MB/chh  $\,$  \* 16ch \* 24h)  $\,\approx\,$  13  $\,$ 



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