H.264

Digital Video Recorder

Operation Instruction



Statement:

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Precautions:

- 1. This video recorder is powered by utility power through DC12V adapter, please check the power supply of power socket to see if it meets the requirement of the adapter before installation is carried out;
- 2. Never place the video recorder at humid place or place subject to rain;
- 3. The video recorder should be installed at a place without strong vibration;
- 4. The video recorder should be installed at a place without direct sunlight and far away from heat source and high temperature;
- 5. When the video recorder is installed, its rear panel should be more than 15cm away from other object or wall to facilitate heat emission by fan;
- 6. Allow the video recorder to work within the temperature, humidity, and voltage ranges permitted by the technical criteria;
- Never store chemicals from which corrosive and volatile gas may be created in the place where the video recorder is installed, lest the service life of video recorder will be affected;
- 8. The video recorder should not installed where there are many dusts, and the surrounding environment should be kept clean;
- 9. When the video recorder is used, correct grounding should be ensured;
- 10. When the video recorder is installed, correct connection to other devices should be ensured;
- 11. Please purchase hard disk from formal channel, so as to suit long term, mass data read-write requirement of DVR;

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Foreword

Introduction

This manual provide a using guide and specifications of 4/8/16 ch standalone Digital Video Recorder, with detailed description of the function of each model and precautions as well as signal definitions of the connectors in the rear board \therefore

- Chapter I Product Introduction. Product functions, main features and environmental adaptation are briefly introduced.
- Chapter II Environmental adaptation.
- Chapter III Operation manual of main frame. Including functional introduction for the press keys of remote control, and the operation function corresponding to each menu interface and the meaning of each option setting are explained in details.
- Chapter IV Remote monitoring software. The operation function corresponding to each IE menu interface and the meaning of each option setting are explained in details.
- Chapter V DVR installation guidance. Signal arrangement and connectors of rear panel are detailed; the definition for the signal of each external cable; the definition of front panel and the definition of each interface are also detailed.
- Chapter VI FAQ.

Chapter I: Introduction

1.1 Main features

This DVR Series are 960H high resolution Digital Video Recorder with 4CH /8CH /16CH real tim e. With the function of real-time monitoring, recording, playback , Support triple stream, data bac kup, motion detection, and USB mouse etc.

1.2 Product features

- ♦ Video compression format is standard H.264
- ♦ Two USB interfaces
- ♦ 16-bit true color translucent graphic menu interface, menu option notation prompt
- ♦ 4 / 8 / 16 channel synchronous playback
- ♦ Two-stage user authority management
- ☆ Support multi-Video real time browse, parameter setting, backup or record playback to local device by network

1.2.1 Performance parameters

1. HDMI series 4CH \searrow 8CH and 16CH parameter

Model	4CH	8CH	16CH
Compression	H.264		
video input	1.0Vp-p/75Ω, BNC×4	1.0Vp-p/75Ω, BNC×8	1.0Vp-p/75Ω, BNC×16
Video output	1.0Vp-p/75 Ω , BNC×1	, VGA×1; HDMI×1	
Resolution	Live Display : 960H Recorder: 4CH 960H real time	Live Display : 960H Recorder: 8CH 960H real time	Live Display : 960H Recorder: 16CH 960H real time
Audio in put	RCA×4	RCA×8	RCA×16
Audio out put	RCA×1		
Audio encoding and decoding	G.711A		
Alarm in put	4 CH in	8 CH in	16 CH in
Alarm out put	1 CH out	3 CH out	3 CH out
Recording mode	Manual recording , Sc alarm recording	heduled recording , mot	ion detection and external
Multiplex	record, playback, ne	twork	
Network interface	RJ45(10M/100M self-ac	daption)	RJ45(10M/100M/1000 M self-adaption)
PTZ control	Yes		

Serial Interface	RS485×1, USB2.0×2			
Storage	2 SATA HDD(300GB	-2TB)	2/4 SATA (300GB-2TB)	HDD
Mouse	USB mouse		•	
Remote control	Yes			
Adaptor	12V/5A	12V/5A	12V/5A	

2. Basic parameter

Item	Work parameter	Introduction
input voltage	12V	direct current
Video input resistance	75 Ω	Each ch Video input resistance $75 \Omega_{\circ}$
Audio output	1Vp-p	Out put 1Vp-p CVBSAnalog signal.
HDD SATA interface		SATA interface, Support Mainstream capacity SATA HDD
Temperature	-1050°C	Ambient temperature under a well-ventilated condition.
I/O interface	0—2V	For low level alarm
	5V-30v	For the high level alarm.
RS232 Serial interface		Aside serial interface, for extend RS232 device
RS485 Serial interface		Support protocol Pelco-D, Pelco-P and so on

Chapter II: Environmental adaptation

In order to ensure safe application of DVR and obtain satisfactory service performance, prolong the service life of device, customer should fully consider the following factors when install the device:

- 1) When the device is installed and operated, all specifications of electronic product and the requirements of vehicle and other connecting device should be followed.
- 2) Power supply and grounding:
 - Never use wet hand to touch power supply and video recorder.
 - Never drop liquid on video recorder, otherwise short circuit inside device or fire may be resulted.
 - Never pile other object on video recorder.
 - Use soft dry cloth to clean video recorder, never use chemical solvents.
 - After the power cable of video recorder is connected to power socket, there is still voltage inside the device even if the video recorder has not been started.

• If the device is not to be used for long term, it is preferred to fully disconnect the power supply of video recorder, and unplug the power cable from the power socket.

Prompt: when using remote control to input password and camera name, please use the key area to press Enter key, and then press Numbers key.

Chapter III: Operation manual of main frame

In the operation of this device, the Enter key on remote control has the same function as the left click of mouse.

3.1 Remote control

Remote control is a minor input device to browse system interface.

The usage of function keys of remote control:

1. Standby: standby mode;

2. Login/lock: Remote control can control the device through the device number is landing, Locked shielded remote control equipment

3. Number keys or video channel buttons: pressing number key $0\sim9$ in setting interface means the input of number $0\sim9$; in monitoring state, pressing number key means switching the output Video to video single Video of each channel;

4. **Multi-Video:** switch output Video to 4-channel video Video or multi-channel video display;

5. Menu: press this key in preview picture to display main menu;

6. PTZ: call out PTZ control interface;

7. ESC: close menu window or return to previous menu;

8. Browse or Enter:

 \mathbf{A} : Press to move mouse cursor upwards in menu interface, and add 1 for video channel value

• Press to move mouse cursor rightwards in menu interface, and add 1 for video channel value, in playback, 2X, 4X, 8X, 16X, 32X speed fast play is supported;

• The Press to move mouse cursor leftwards in menu interface, and minus 1 for video channel value, in playback, 2X, 4X, 8X, 16X, 32X speed fast backward is supported;

 $\cdot \mathbf{\nabla}$: Press to move mouse cursor downwards in menu interface, and minus 1 for video channel value;

• Enter: It is used to confirm the selection and setting of system parameters, playback etc operations;

9.+/-: It is used to adjust analogue quantity parameters, increase/ decrease parameter value of system setting parameter;

10. Record: enable manual record;

11. **Stop record:** stop manual record; (this function can't stop starting record or timing record being carried out)

12. Auxiliary: preserved key;

13. Playback control:

Fast backward: fast play back Video backwards, support 2X, 4X, 8X, 16X, 32X speed fast backward; press **()** key to restore normal playback speed;

• **Play:** it is used to play back record data in normal speed;

Fast forward: fast play back Video forwards, support 2X, 4X, 8X, 16X, 32X speed fast play;
 press [] key to restore normal playback speed;

Slow play: play back Video in slow speed, support 1/2, 1/4, 1/8, 1/16, speed slow play; press



Figure 3.1 remote control



[] key to restore normal playback speed;

Pause/play frame by frame: pause or play back Video frame by frame; press firstly to pause the playback of Video; then press continuously, each press will play back 1 frame of Video; press likey to restore normal playback speed;

14. Sound control: enable and disable sound.

Select device number setting by remote control: after [Login/lock] key is pressed, input device number in [Password setting] to control the device. For example: select the device with device number of "000001". After [Login/lock] key is pressed, input number "1" (that is [Login/lock] + 1), then the remote control can control the machine with device number of "000001".

Note: when the device number is 000000, the remote control can control by default,

[Login/lock] +0, the remote control can control machine with any number

The number of machine can be set as up to 000255

3.2 Mouse operation

Mouse is the main input device to browse system menu.

Note: except stated otherwise, all system functions in this manual are described by using mouse input operation.

Mouse application of this system:

1) Insert USB mouse to the USB mouse port on the front panel of this system or the USB interface at the bottom of rear panel.





2) The operation of mouse key is as follow:

•Left key: single click left mouse key on the functional menu option icon to enter the setting page of the menu; double click left mouse key in real time monitoring Video or playback Video

will zoom in the image of certain channel, double click left key again to return to the monitoring and playback of multi-channel Video.

•**Right key:** in real time preview Video, single click right mouse key to enter the main menu of system. In menu page, single click right mouse key to return to previous page.



3) Roller in the middle of mouse: No function at all.

Figure 3.2.1 Mouse key operation

Virtual keyboard (mouse operation)

Application of virtual keyboard:

1	2	3	1	123
5	6	7	8	
9	0	Ł	4	
Figu	re 3.	2.2 v	irtua	l keyboard

1. Click input box, such as user number and user password box.

- 2. Click the corresponding number of 0~9 key input.
- 3. Left click <u>123</u> to switch input methods: digit, capital letter, small letter, punctuation character and Pinyin input method (different input method switch available depending on the property of the input box).

4. Left click for delete character.

5. Click key to conform/input and close virtual keyboard.

Note: when mouse cursor moves to the selected button, the keyboard button will be shown in orange.

3.3 System operation

3.3.1 User login

1. Start the system

Power ON/OFF:

Connect power cable to the DC12V port on the rear panel of this system. When the system is started, it will execute a basic system inspection and run initial load sequence. After few minutes, the system will load real time display diagram.

Password

Note: the system will enable password by default. You can disable it manually in password setting. The default password is: 123456.

Note:

- When the main frame is powered on, if no hard disk is installed on the device, or the installed hard disk is not detected during starting up, or the installed hard disk hasn't been formatted on the local device, [H] mark will be displayed on video preview Video after starting up.
- 2) Newly installed hard disk can be used normally only after being formatted through local device. New hard disk can be detected automatically during starting up and it will prompt you to format hard disk; if it is required to format hard disk in the system, the procedure is as follow: main menu>hard management>format hard disk.

2. System login

Open main menu: right click any position on screen to display toolbar, select the first main menu button (mouse operation) at the left most of toolbar, or press [MENU] on remote control or panel to enter into login box, as shown below:

Isername	admin		
assword	-	_	

User name: user can select your user name in the pull-down box of user name. If it is required to enable other user to log in, please use admin to log in and enter: main menu > system function > user password, so as to open other account.

User password: input the corresponding password of the user

Note: the system has enabled password by default, when the system is entered at each startup, only after the corresponding password is entered according to the user name, the system can be entered. (The default password for admin is 123456) or general user password (the default password for system general user1 is: 123456)

3.3.2 The right mouse button operating instructions

1. Click the right mouse button into the right menu.

Main Menu	Entry main menu
Multi Channel 🕨	Mulit screens switch
P1P ▶	Entry PIP mode
PTZ	Entry PTZ
Hute 🕨 🕨	Mute switch
Sequence	Turn on wheel single screen auto switch
Cruise 🕨 🕨	Auto Cruise switch is according to proset point
Search 🕨	
Backup 🕨 🕨	Bachup recording
Playback	Entry playback recording
200M	Entry Digital zoom
Lock	Exit

3.3.3 Menu operation

Main menu consists of $\llbracket DISPLAY \rrbracket$, $\llbracket RECORD \rrbracket$, $\llbracket NETWORK \rrbracket$, $\llbracket DEVICB \rrbracket$, $\llbracket SYSTEM \rrbracket$ items, as shown below:



Prompt: the settings to all submenus below are valid only after 【Apply】 is pressed; The settings are invalid when you exit this page directly without pressing OK.

This product has an obvious feature: when mouse cursor moves to any option, the remark prompt information of the option will be displayed automatically at the bottom of the interface.

3.34. Display Setup

Display

Move mouse cursor to [Display] item, single left click mouse to enter the setting interface of the item. As shown below:

PLAY	Display		-	Date/Ti	Language	
сн	Nane	Covert	Т	Positi	on	Color
01	CH1	Open	1	U-L		Setup
92	CHZ	Open	2	U-L		Setup
03	СНЗ	Open	2	U-L		Setup
04	CH4	Open S	2	U-L		Setup
05	CH5	Open 💽	2	U–L		Setup
06	CHG	Open	2	U-L		Setup
07	CH7	Open S	2	U-L		Setup
08	CHB	Open	2	U-L		Setup
Copy S	Setting					

CH01-CH08: click to pop up pull-down box to switch to other channel to carry out setting

Name: move mouse cursor to the channel name to be modified, single left click mouse to pop up soft keyboard so as to modify channel name.

Convert: "Open" means the Video of the channel can be seen on video preview Video.

Position: left click the pull down menu for the channel where the name position is required to be modified, there are 5 setting options: left-top, left-bottom, right-top, right-bottom and close.

Color: move mouse cursor the **[**Setup**]** of corresponding channel, single click mouse to enter the setting interface of color, as shown below:



Drag mouse cursor to carry out the setting of Video color, including 4 options: Hue, bright, contrast and saturation. Click [Apply] to exit and the set parameters are saved.

Copy Setting: Will a channel set parameters copied to the other channels.

2. Time setting

Move mouse cursor to [Date/Time] item, single left click mouse to enter the setting interface of the item. As shown below:

DISPLAY		Display	Date/Time	Language
Time Zone	GMT+08:0	9		
ate/Time Format Date/Time Setup		Contraction of the local division of the loc	21 Hours]	
NTP Server	ON time.wind	lows . con]]	
Live MTP update succe	5000 (000) STO	and the second second	ed ON	
Default			Որթեց	Exit

Time Zone: Press [] keys are used to the time zone switching, please choose where you are and the corresponding time zone

Date/Time Format: Press [] Key to time format of switching, MM DD YY, YY-MA DD and DD MM YY three options. You can choose 24 hours 12 hours to make.

Date/date set: Modification date and time, Click on the 【apply】 after the modification effect. Change may cause video file is missing, recommend that users don't easily modified time.

NTP: Open/close, mainly used for time synchronization, opening NTP after the system automatic correction DVR time.

Server: The server for the default, may not be installed

Live: Preview screen time on/off

Record: Video screen time stack on/off

4 .System language

Move mouse cursor to [Language] item, single left click mouse to enter the setting interface of the item. As shown below:



There are multiple options in system language: Chinese, English, Portuguese and so on. Note: the system will restart after system language is modified.

3.3.5 Record setting

1. Record setting

Move mouse cursor to [Record] item, single left click mouse to enter the setting interface of the item (as shown below).

		Ch01~0	B CI	h09~	16					
СН	Recor	d	Qualit	y	Resolu	tion	Aud i	0	FPS	:
01	On		Best		960H		On		25	5
9Z	On		Best		960H		On		Z5	5
03	On		Best		960H		On		25	5
04	On		Best		960H		On		25	5
05	On		Best		960H		On		25	5
06	On		Best		960H		On		25	5
07	On		Best		960H		On		Z5	5
88	On		Best		960H		On		25	5
C	opy Set	ting			Pac	cket Time	60 M	in		5

CH01-CH04/CH09-CH16: click the button to switch to other channel to carry out setting.

Record: "Open" means the record function of corresponding record channel is enabled.

Quality: there are 3 types: excellent, good and medium corresponding to 3 data stream standards: very high bit rate, higher bit rate and medium bit rate.

Resolution: 960H(D1), HD1, CIF optional (some models only with CIF and D1)

Audio: "Open" means all channels have audio recording enabled; "Close" means all channels have audio recording disabled.

FPS: Set the number of frames per second video, P system 1 frame/seconds-25 frames per second can choose; N system 1 frame/seconds-30 frames per second can choose Schedule Setup

Move mouse cursor to [Schedule] item, single left click mouse to enter the setting interface of the item (as shown below).

Mode: there 2 methods: Always and Schedule.

- Always: the record is started when the device is powered on.
- Schedule: Vi deo of vi deo set according to plan, As shown below:



Channel: you can select [All channels], you can also select single channel.

Record Schedule Setup: firstly select the record method configuration carried out aiming at certain pane; there are 3 types of option: alarm record, conventional record and no record; so as to carry out configuration to specific record time pane (each pane represents 1 hour). Each pane can be configured as different record method, which represents as different color marked on each pane: red, green, base color that represents alarm record, conventional record and no record respectively within the hour.

Packing time: single left click its pull down menu to carry out selection of packing time, there are 4 options: 15 minutes, 30 minutes, 45 minutes, and 60 minutes.

Event Setting

Configuration alarm event video parameters, please refer to the video Settings.

3.3.6 Network setting

1. Network setting

Move mouse cursor to Network item, single left click mouse to enter the setting interface of the item. As shown below:

Type Static IP Port 04761 Web Port 04760 IP 192.168.060.176 Metmask 255.255.255.000 Gateway 192.168.060.001	
Web Port 04760 IP 192.168.060.176 Netmask 255.255.000	
IP 192.168.060.176 Netmask 255.255.000	
Netmask 255.255.000	
Gateway 192.168.060.001	
DNS 192.168.060.001	

Address type: there are 3 types of optional address: DHCP, PPPOE, Static IP (manual configure)

➢ Static IP

Press Select static IP in Address type to enter manual static IP, as shown above.

Media port: port number adopted by private communication protocol between DVR device and PC end; in general case, the default value is: 8200. If the port on PC is occupied by other service, please change it to an idle port. (This port is not required to be added if accessing the device through P2P platform)

WEB port: HTTP port, in general, default value is adopted: 80. If administrator has change the WEB port to other port such as: 8235, then add port number after IP, when it is required to access the device through IE, input in address field: <u>http://192.168.60.176:4760</u>. (This port is not required to be added if accessing the device through P2P platform)

IP address: fill in IP address according to the network where the device is located.

Subnet mask: fill in subnet mask according to the network where the device is located.

Gateway: set gateway according to the network where the device is located. If there is no router device in the network, please configure IP address of the same network segment; if there is router device in the network, then it is required to set well corresponding gateway.

P2P: Input the network ID of P2P which is unique to each machine. When the system is available for P2P, people can get remote access to DVR through mobile client and CMS client without adding or mapping DVR's network port, which is easy and convenient to use.

Methods of using P2P

Method one: get access through the network ID. under the situation that normal operation of the DVR network can be guaranteed, the remote access to DVR can be realized by adding the P2P device (mobile

phones can make it by scanning QR codes) through CMS client or mobile client without adding any ports. Method two: get access through my E horizon domain name. Under the situation that P2P is available for the front-end DVR, the network ID of P2P would be bound to the E horizon domain name, and then remote access to DVR can be realized directly through the E horizon domain name on the client side or IE.

➢ DHCP

Select DHCP in address type to enter its setting interface, as shown below:

	Network	DDNS	Mobile	Contradiction of	Notification
Туре	DHCP				
Port	04761				
Web Port	04760		-		
IP	172.020.1	20.180			
Netnask	255.255.2	54.000			
Gateway	172.020.1	20.001		1	
DNS	172.020.1	20.001			
	(de la				
Default				pply	Exit

Media port: it is the same as static IP

WEB port: it is the same as static IP

Note: after DHCP method is selected, restarts the system after confirm. After startup, the system will automatically establish connection with DHCP server; after the connection is successful, the device will be configured with an IP address and displayed on the interface.

➢ PPPOE

Select PPPOE in address type to enter its setting interface, as shown below:

NETWORK	Network	DDMS	Mobile	Enail Notification
Туре	PPPOE			1
Port	04761			ĺ
Web Port	04760			1
Username	1234567			ĺ
Password	******			1
State	Connecting	1		<i>a</i>

Media port: it is the same as static IP

WEB port: it is the same as static IP

PPPOE user name and password: fill in PPPOE user name and password provided by internet service supplier, restarts the system after confirm. After startup, the system will automatically establish network connection in PPPOE method; after the connection is successful, the IP on IP address will be automatically modified as dynamic IP address obtained on WAN.

DNS: set the IP address of domain name server; refer to the configuration of domain name server on computer.

2. DDNS setting

Move mouse cursor to DDNS litem, single left click mouse to enter the setting interface of the item. As shown below:

NETWORK	Network	DDNS	Mobile	E-mail
	My E-Vi	deo		
Pub1	ic DDNS Open			
	Server 3322			
Hos	st Name sunji12	3.3322.org		
Use	er Name sunji12	3		
Pa	assword *******			
	Updat	e		
DDNS no o	change ZZs			
Default			Apply	Exit

DDNS: there are 2 options: [Open/Close]; You can select DDNS Enabled when there is domain name resolution server.

Server: user can select required DDNS server, there are 4options: 3322, dyndns, nightowldvr, no-ip; Registration and method of use see appendix 1

Host Name: input the host name registered on dynamic domain name resolution server.

User name: input user name registered on dynamic domain name resolution server.

Password: input password registered on dynamic domain name resolution server.

E-Video: The user can review the DVR IE from http://www.dvripc.net directly. (For more operation step please refer to Chapter VII appendix)

3. Mobile phone monitoring

Move mouse cursor to [Mobile] icon, single left click mouse to enter the setting interface of mobile phone monitoring; if it is required to input user name and user password in mobile phone software, then the corresponding user name and password should be consistent with the user name and password of IE setting, the default user name is: admin, the corresponding password is: 123456. As shown below:

Mobile Po Mobile Stre	ort 04762 can 64Kbps]	
Mobile Stre	can 64Kbps		0	
		0.833		
		1132-31		
		2.053	2	
			į.	
			7	
Default				pply Exit

Service port: port number adopted by private protocol communication between DVR device and mobile phone; in general condition, default value is adopted: 15961. If the port of mobile phone is occupied by other service, then change it to an idle port.

Mobile Stream: Choose by your network environment.

remark: The installation guide of Mobile phone software is enclosed in CD.

4. Email Setup

Move mouse cursor to [E-mail] item, single left click mouse to enter the setting interface of the item. As shown below:

ETWORK	Netw	ork	DDMS	Mobile	E-mail
	E-mail	Enable			
	SSL	Open			
SH	TP Port	00465			
SHTP	Server	sntp.gna	il.com		
Send	er Mail	*****691			
Se	nder PW	*****			
Receiver	mail 1	*****Bgr	ail.com		
Receiver	mail 2				
T	nterval	3min			

SSL : Except for Gmail that should be set ON, it is set as OFF for other mailbox.
SMTP port : It is 465 for Gmail, and 25 for other mailbox.
SMTP server : It is generally: smtp.xxx.com, such as smtp.gmail.com, smtp.sina.com.
Sender Mail : Corresponding mailbox address of above SMTP server
Sender PW : Password of above mailbox
Receiver mail : Mailbox address of receiver
Interval : Time interval of sending alarm email, options are: 3 min, 5 min and 10 min.
The system will capture the image and send to your setting mailbox when motion detection alarm

3.3.7 Record Search, playback and backup

1. Search and playback

Click the right button of mouse, Select the "search" button, Enter the file search interface. If you want to search the event record data, select event in the type .

The first: file search



Users to set up Search terms, click on the [Search] button Search out video files, as the chart:

Time Size Type 1 10:45:59-10:46:06 0.7M Norm	
2 10:45:59-10:46:07 0.7M Norm	
3 10:45:59-10:46:07 0.7M Norm	
4 10:45:59-10:46:04 0.4M Norm	
4 10:46:05-10:47:24 5.3M Alarm	
1 10:46:07-10:47:25 6.3M Alarm	

Mouse the left key click video files can play

The second : event search, you can search full event information and the alarm event information for within the day (the same operation with the file search)

2. Video files backup operation

Click the right mouse button choice **[** backup **]** button to enter the video backup search interface, Video files backup through USB storage devices can be copied or access equipment means, Can according to the file backup, can also according to the time the backup. In the video files backup before, the user must first will storage peripherals inserted into the device USB2. O slot or connected to the recording equipment, this product support USB plug and play equipment operation. When USB storage devices and burn equipment and access DMR, systempriority backup to burn equipment, Backup search interface is shown below

S 1 2 3 4 1 2 5 6 7 8 9 12 13 14 15 16 19 20 21 22 23 26 27 28 29 30	3 4 16 11 17 18 24 25	Type Start Time End Time	A11 00:00:00 23:59:59 Channe1
Backup Device	/hiusb/dis	kθ	
Total Space	7.456B / 1	.826B	

Calendar: click on the [Calendar], into the playback search interface, video playback. Backup search conditions, including: time, the channel, type. Set up the Search terms, click on the [Search] button, will Search the video files to list are form content.

Ch	Tine	Size	Туре	Se1
1	10:45:59-10:46:06	0.71	Norm	
z	10:45:59-10:46:07	0.71	Norm	
3	10:45:59-10:46:07	0.7H	Norm	
1	10:45:59-10:46:04	0.4M	Norm	
1	10:46:05-10:47:24	5.3M	Alarn	
1	10:46:07-10:47:25	6.3M	Alarn	

bel ow:

In detailed list interface file on a choice for a video files, in the selection box click the mouse left key after, this box will be the emergence of a "appropriate", said the video files are selected, to move the mouse to the **[** backup **]** button and click the **[** backup **]** button, right nowthe interface may display file backup schedule information, see below:

1 Warning [2 Progress 36% [Ch	Tine		Size	Type	Sel
	1		Warr	ing		
3 Backuping, don't remove USB!!	z	Progress		-	36;	
	3	Backuping, d	don't remov	e USB11		
Count 4 files, backuping 3 file	4	Count 4 file	s, backup ing	3 file		
4	4					
1 [1					

Note:

1. If the space of backup device is less than the capacity of the record file, then when user carry out backup, the system will prompt: not enough space;

2. After the backup of record file is completed, directly pull out the backup device.

3. Video playback

Click the right mouse button, and click the "video playback" button to enter the interface for video playback, as shown below, and then click the IN button or single click the mouse on the progress bar for playback to start playing the video.



Directions:

Playing status: represent the status of the video files playing. There are six statuses including fast forward, fast backward, slow play, frame forward, normal play and play stop. The playing status can be switched through clicking the buttons on the playback toolbar or the front panel.

Calendar: the play-date can be chosen through the calendar. Only under the status of play stop can the date be chosen.

Image division: get playback by choosing different approaches or different channels. Single-image, four-image, eight-image and sixteen-image are available to be chosen according to the requirements and performances.

Channel selection: different channels would be chosen during single-image, four-image and eight-image playback.

The progress bar for playback: it refers to the schedule during the course of video playing. The selected moment can be quickly jumped to by dragging the progress bar.

The accuracy selection of the progress bar: different accurate schedule can be chosen based on division of twenty-four hours, two hours, one hour and thirty minutes.

Audio adjustment: adjust the size of voice frequency during the video playback.

Playing status switching: from left to right, the buttons on the toolbar in sequence are fast backward, slow play, normal play, pause/frame forward, fast forward and play stop.

Digital zoom: digital zoom can be operated when the video is played in single-image or the single-image is zoomed in by double clicking the channel.

Direction: only under status of play stop can the calendar, image division choosing and channel selection be operated.

DIGITAL VIDEO DECODICEO HDD HDD Alarn PT2 Motion Detect DEVICE DISPLAY RECORD NETWORK DEVICE

3.3.8 Device management

Move mouse cursor to [Device] icon, single left click mouse to enter the interface of the item (as the

Advanced function includes 6 items: hard disk management, alarm setting, mobile phone monitoring, motion detection, PTZ setting and exit.

1. Hard disk management

Move mouse cursor to [HDD] item, single left click mouse to enter the setting interface of the item (as shown below).

DEVICE	HDD	Alarn	PTZ	Motion 1	etec
No	Information	Total/Ava	il Avail 1	ine Se	lect
1	OK	4766/206	1Hour]
2	OK	1526/1206	10Hour]
3	No Disk	0/0	OHour		
4	No Disk	0/0	OHour		
5	No Disk	0/0	OHour		
6	No Disk	0/0	OHour		
7	No Disk	0∕0	OHour		
8	No Disk	0/0	OHour		
Overwrit	e On 🖸 Format HDD	For	rmat USB		

Information: there are 3 states: normal, unformatted and no hard disk; if all hard disks do not work normally (including unformatted and no hard disk states), a symbol **[H]** will be displayed on video preview interface.

Total/Avail: indicate total capacity and current available capacity on hard disk.

Avail time: indicate the time available for recording on current hard disk.

Select: ticked indicate that the selected number of hard disk will be formatted.

Overwrite: Automatic: when the residual space of hard disk is less than 10G, the earliest 2G record file on hard disk will be deleted; Close: when the residual space of hard disk is less than certain space, then stop recording; 1 hour: only keep the latest 1 hour record file; 3 hours: only keep the latest 3 hours record file; 1 day: only keep the latest 1 day record file; 7 days: only keep the latest 7 days record file; 30 days: only keep the latest 30 days record file; 90 days: only keep the latest 90 days record file.

Format HDD: carry out hard disk format to the ticked hard disk, single format can be carried out.

Format USB: move mouse cursor on this button and press [OK] key to format U-disk.

Note: hard disk format and U-disk format will clear all data, please back up your important data.

2. Alarm setting

Move mouse cursor to [Alarm] icon, single left click mouse to enter the interface of the item (as shown below):

CH01~CH04		CH1	CH2		СНЗ		CH4	
1/0 Alarm		N/0	N /0		M/0		N/0	
HDD Loss [On			,	lo Space [On		
Video Loss [Off	<u>.</u>						
Output	10s	ec			Buzzer	Off		
Duration [1nii	n			Pre Rec	Off		C

CH01-CH04: Click to pop up pull-down box to switch to other channel to carry out setting.

I/O Alarm: each channel corresponds to an I/O state alarm, that is, when the IO input of certain channel is valid, start the alarm record of corresponding channel.

NO (Normal open): indicate that external alarm circuit is open circuit normally; it is closed circuit when there is alarm.

NC (Normal close): indicate that external alarm circuit is closed circuit normally; it is open circuit when there is alarm.

HDD Loss: Enabled indicates that when the system can't identify hard disk, an alarm will be created; **(H)** will be displayed at the left bottom of channel 1 in video preview Video.

NO Space: Enabled indicates that when the residual space of hard disk is less than 10G, an alarm will be created.

Video loss: Enabled indicates that when video loss occurred at certain channel, the channel in video preview Video will display: video loss

Alarm control: there are 4 items: alarm output, buzzer, record time length and prerecording time.

- output: time for external output of alarm signal by DVR when alarm occurs. Options are: close, 10 sec, 20 sec, 40 sec and 60 sec.
- Buzzer: time for the sounding of buzzer when alarm occurs. Options are: close, 10 sec, 20 sec, 40 sec and 60 sec.
- Duration: time to prolong recording after alarm ends. Options are: 30 sec, 1 min and 5 min.
- > Pre Rec: enable and disable alarm prerecording.

3. PTZ setting

Move mouse cursor to [PTZ] item, single left click mouse to enter the setting interface of the item (as shown below). Each parameter of each channel can be set individually.

Channel: select the channel where ball machine camera is connected.

Protocol: select ball machine protocol of corresponding brand type, there are 12 optional protocols.

Baud rate: select the baud rate used by corresponding ball machine, there are 8 optional baud rates: 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200.

Data bit: there are 4 options: 5, 6, 7, 8, the default is 8.

Stop bit: there are 2 options: 1, 2, the default is 1.

Parity: there are 5 options: None/Odd/Even/Mark/Space, the default is None.

Cruise: ON means automatic cruise function is enabled.

Address: fill in the PTZ code of corresponding channel.

CH01~CH04	CH1	CHZ	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	
Parity	None	None	None	None	
Cruise	Off	Off	Off	Off	
Address	001	002	003	004	

PTZ control

Click **[**PTZ**]** button of toolbar to enter the interface of PTZ control. As shown in figure 3.7.4:





The buttons for PTZ operation are shown in the following table:

	All F	unctions
	Pointer Auto Pan	To select the direction of PTZ The middle circle is for auto pan of PTZ.
- Zoon +	Zoom in/zoom out	
- Focus +	Focus	

- Iris +	Iris	
Slow 31Fast	Volume	PTZ control the speed
1	Channel select	For selecting the channels of PTZ camera.
Go TO	Go to preset point	Allow you to go to a specific preset point.
Set Ponit	Set Point	Allow you set a set of specific preset points of a PTZ camera. Also it can Adjust the camera in a fix point.
Clear	Clear	Allow you to delete the selected preset
CurPoint 002	Cur Point	It indicates the starting point cruised. System default point is 01.
HoldTime 003	Hold time	Sets the stop time at each point
Enter	Save	Save the changed and the preset point.2

Table 1.3 PTZ control buttons

Automatic cruise (PTZ)

Enable automatic cruise in PTZ setting.

CH01~CH04	CH1	-	CH2	СНЗ		CH4	
Protocol	Pelco-D		Pelco-D	Pelco-D		Pelco-D	
Baud Bate	9600		9600	9600	2	9600	
Data Bit	8		8	8		8	
Stop Bit	1		1	1		1	
Parity	None		None	None		None	
Cruise	On		On	On		On	
Address	001		002	003		004	
	Linger		. Antonio y				_

Corresponding channel all set up the right mouse button at the preset began to be automatic cruise, Automatic cruise open and set up the channel access to preset point cruise states. Set up automatic cruise the preset point, Need to check the preset away old pan and tilt, And then reset preset points, Can automatic cruise.



5. Motion detection

Move mouse cursor to [Motion detection] icon (white boxed icon means selected), single left click mouse to enter the setting interface of motion detection, as shown below:

DEVICE HDD		•		larn		PTZ		Motion Detect	
CH01~CH04		CH1	_	CH2	_	СНЗ		CH4	
Chn		On		On		On		On	
Sensitivit	y	Nornal		Normal		Normal		Normal	
Area		Setup		Setup		Setup		Setup	
CH01-CH04: click to pop up pull-down box to switch to other channel to carry out setting.

Chn: corresponding channel switch of each channel, you can select to enable or disable motion detection.

Sensitivity: corresponding channel sensitivity setting of each channel, there are 4 standards: highest, high, medium, and low.

Area: each channel has corresponding motion detection zone setting, move mouse cursor to the [Setup] of corresponding channel, single left click mouse to enter the interface of motion detection zone of this channel; red panes represent motion detection initiated in this zone, transparent panes represent motion detection not initiated, as shown below:



You can press mouse left key and drag to select the zone of motion detection, after the selection of zone is completed, single click right mouse to exit and return to [Motion detection] interface, click OK to complete the setting.

Prompt of operation: Remote control operation: use [Menu] key to select the zone.

3.3.9 System function

Move mouse cursor to [SYSTEM] item, single left click mouse to enter the setting interface of the item. As shown below:



System function consists of 4 options: system information, user password, audio-video, and system maintenance (device maintenance).

1. system information

Move mouse cursor to [Information] item (white boxed icon means selected), single left click mouse to enter system information interface. As shown below:

Device ID		DMS8A16		
Software Versi	on	T131216 (Hi3531 !	512M P2P)	
MAC Address		04-75-F5-02-2F-I	ec	
			Data input	
	Data outj System L			

Export: Insert Udisk, system configuration parameters can be imported to Udisk, U dish in the root directory will automatically generate a sysparam files

Import: Put the Sysparamfiles to Udisk root directory and insert Udisk, the system configuration parameters will import to DWR

Syst em Log: Log inquires, Inquires the alarm information, System operation information, DVR start information.

Log Search	
Log	Type All
Start	Time 2014-01-15
End	Time 2014-01-16
	Search Exit

Log Search: Type has all, alarm the operation of three options. Alarmlog records, mobile detection, video IOlost, hard disk drawback of alarminformation, operation journal record parameters modification, equipment to restart and other information. Input the inquire "start time", "the end of time", click start after the search, the content of the search in the form of automatic list shows. See chart;

Tine	Event	Record	User
2014-01-15 17:09:0	95 Remote Login	ND	admin
2014-01-15 17:10:	37 Illegal Access	NO	admin
2014-01-15 17:10:4	15 Illegal Access	NO	admin
2014-01-15 17:10:	53 Remote Login	NO	admin
2014-01-15 18:01:2	26 Remote Login	NO	admin
2014-01-16 10:21:4	17 Remote Login	NO	admin
2014-01-16 10:22:0	97 Remote Login	NO	admin
2014-01-16 10:22:4	17 Remote Login	NO	admin
2014-01-16 10:38:0	1 Remote Login	NO	admin
2014-01-16 11:49:	11 System restart	NO	admin

Click on the [Export] but will log information to notepad file Export to U disk, used to open a tablet computer $_{\circ}$

2. User password

Move mouse cursor to **[**Password **]** item, single left click mouse to enter the setting interface of the item. As shown below:

	ice ID 000000	00000	user4)		
admin	111111	Confirm	111111		
user1	123456	Conf irm	123456	Aut)	writy Setup
user2	123456	Conf irm	123456	Aut	writy Setup
user3	123456	Confirm	123456	Aut	writy Setup
user4	123456	Confirm	123456	Aut	writy Setup

Device ID: direct press the number keys for equipment Numbers setting. Set good equipment Numbers, remote control needs to enter

【 landing/locking 】 + equipment Numbers, corresponding to the machine control, (see chapter 3 introduction of remote control)

Password: the on/off. Close said not need password DVR landing, the proposal does not shut down the password.

Admin: administrator users, the highest authority, all of the operating system

User1-User4: Normal user, Permissions configured by the admin

User permission: [PTZ control] Refers to the authority to control PTZ

[parameter setting] Refers to modify the system parameter setting [system maintenance] Refers to the authority of the system maintained (such as

upgrade, format setting)

Move mouse cursor to [Audio-video] item, single left click mouse to enter the setting interface of the item. As shown below:

SYSTEM	Informa	tion	Passuord	A/V	Maintain
Video	o Signal	PAL		5	2
Seque	nce Time	905			S
VGA Re:	solution	1024x76	58	5	2
Scre	eenSaver	Never		5	2
UI Trans	sparency				- 98%
		Volune		Margin	

video Signal: there are 2 options: PAL system and NTSC system.

Sequence time: time interval of polling Video; when the time is set as 0, video output has no polling; after the default is restored, the polling time of the channel is 5 sec.

VGA Resolution: there are 5 options: 800×600 , 1280×1024 , 1024×768 , 1920×1080 , 1440 $\times 900$

Screensavers time: The system Set locking time automatically

Interface transparency: Adjusting the transparency of the menu interface

Volume: move mouse cursor to **[**Volume **]**, single click to enter the interface of volume adjust, directly drag mouse cursor to adjust volume.

Note: the system will restart after camera system is modified.

Margin adjust: move mouse cursor to [Margin], single click to enter the interface of margin adjust,

use mouse to drag process bar to adjust top, bottom, left and right margins of multi-Video.

4. System maintenance

Move mouse cursor to [Maintain] item, single left click mouse to enter the setting interface of system maintenance, as shown below:

System	Information	Password	A/V	Maintain
Auto M	laintain OFF			
	Update		Load Default Power Off]
Defaul			Apply	Exit

Auto Maintain: when the item is set as "Enable", user can set the restart time of device.

Upgrade: W11 upgrade file copy to Uplate "dvrupgrade" folder list, again will Uplate inserted into the device USBslot, the 【confirmation】 this button, carries on the system upgrade.

Load Default: restore system parameters to factory default state.

Reboot: click this button to restart the device.

Power Off: click this button to pop up a prompt box of safe shutdown, click OK to shutdown.

Note: ensure the stability of U-disk and power supply during the process of upgrade.

Chapter IV: Network control and management at PC end

4.1 Remote access setting

4.1.1 Network security level setting

Before controls are installed, please set network security level, which is detailed as follow:

- (1) Open IE browser, select "Internet Options" of "Tool" menu.
- (2) Select "Security" tab in the dialog box appeared. (Figure 4-1)



(3) Click "Custom Level" to enter Security Settings. (Figure 4-2)

ecurity Se	tting#		
Settings:			
Au	controls and plug-in tomatic prompting fo		1
_ 0	Disable Enable ary and script behav	ins	
-00	Administrator appro Disable		
	Enable wnload signed Active Disable	X controls	
00	Enable Prompt		
the second se	wnload unsigned Act	iveX controls	~
Sector Sector	om settings		
Reset to:	Medium	v Rg	zset
		OK	Cancel
	Figu	re 4-2	

Set ActiveX controls and plug-ins

- 1) Automatic prompting for ActiveX controls
- 2) Script ActiveX controls marked safe for scripting

- 3) Initialize and script ActiveX controls not marked as safe
- 4) Binary and script behaviors
- 5) Download unsigned ActiveX controls
- 6) Download signed ActiveX controls
- 7) Run ActiveX controls and plug-ins

Set above items as "Enable", this is very important.

Prompt: before controls are installed, please close fire wall and virus-killing software.

4.1.2 Connection setting

The remote access of hard disk video recorder is carried out through network; when LAN connection is used, the IP addresses of client end computer and hard disk video recorder should be within the same network segment; when WAN connection is used, connection can be realized through IP address or dynamic domain name, ensure that both sides can access the public network. The connection setting method of LAN is mainly introduced as follow.

Step 1: right click "Network Neighborhood", click "Property" in pop up menu, so as to open "Network Connection".

Step 2: double click to open "Local Area Connection". (Figure 4-3)

Local	Area Conn	ection Status	
General	Support		
Conne	ection		
State	us:		Connected
Dura	ntion:		02:04:35
Sper	ed:		100.0 Mbps
- Activi	v	a	
		Sent —	Received
Paci	kets:	36,211	35,952
Prop	erties	Disable	
			Qlose
		Figure 4-3	

Step 3: click "Property". (Figure 4-4)

Seneral Authent	ication Advanced	
Connect using:		
Beatek R	TL8169/8110 Family (aigab
This connection	uses the following item	15:
	Printer Sharing for Mic	crosoft Networks
	cket Scheduler Protocol (TCP/IP)	
		~
<	1411	>
Instal	Uninstall	Properties
Description		
wide area net	Control Protocol/Intern work protocol that prov interconnected netwo	
Show icon in	notification area when	connected
		limited or no connectivity
THE STATE STATES		

Step 4: double click "Internet Protocol (TCP/IP)". (Figure 4-5)

tomatically if your network supports o ask your network administrator fo sally
o ask your network administrator fo
aly
192.168.1.40
255 . 255 . 255 . 0
192.168.0.1
omatically
ddresses:
202 . 96 . 102 . 3
202 . 101 . 172 . 47
Advanced

Step 5: examine IP address, subnet mask, default gateway on PC. (The parameters shown in figure 8-5 depend on specific using situation of user)

Step 6: set corresponding IP address, subnet mask, default gateway of hard disk video recorder (see section 3.3.5 network setting). Therein the subnet mask and default gateway of hard disk video recorder should be the same as PC, ensure that their IP addresses must be in the same network segment, but the IP address can't be the same as used IP address, otherwise IP address conflict will be resulted. Take above figure for example, the IP address should be: 192.168.0.X, therein X can't be 40 or 1 (including other used IP address), and can't exceed 255, the subnet mask is 255.255.255.0, the gateway is 192.168.0.1.

4.2 Functional characteristics

Network operation is used to install software through IE browser of the operation system, which is simple and easy; DVR supports C/S, B/S structure, LAN and WAN access, and supports IP and domain name access at the same time.

Support user to modify service port, and support PPPOE, DHCP functions at the same time.

4.3 Constraint condition

To make sure that PC connect the DVR stably, Recommending Windows XP, Windows 7 operat ing system, and the web browser version of IE7.0 and over.

4.4 User login

Input current IP of the device in IE, if the WEB port number is set as (80), then directly input IP address in IE address field; if the WEB port is modified as a port other than 80, then the port number should be added after IP address; for example: the IP of device is 192.168.1.118, set the port as 8088, then input: <u>http://192.168.60.176:4760</u> to access the device.

Under the condition that the network is connected, IE will prompt you to install control to be downloaded to your PC, as shown below:



Figure 4-6 This process may last 1~2 minutes depending on network status.

The download may not be successful because of PC configuration problem, please click:

" If your browser does not support the ActivX to download, please click here,

"If your browser does not support the ActivX to download, please click here" means "If your browser does not support the ActiveX to download, please click here".

After the download and installation of control is successful, the login interface will be entered automatically, as shown below:

Construct for the local district	
(C)	
	=
	USER LOGN
Language	ENGJOH III
RALEWORK METHODRE	
	JOSH HINT
. Enclosed a	ent (Dr. Adirs Z. Andersekowk Strate 1694 (Pr.)

Figure 4-7

You can select between three language interfaces: English/Simplified Chinese/Italian

Five Language optional : English / Chinese / Russian / Spanish / Portuguese

User ID and password : have admin and normal, default admin ID: admin, password: 123456 / normal user ID : user, password : 123456. Different user with corresponding identity and authority, and the admin with the highest authority.

Network environment: LAN/WAN, select according to the network type of connection between your computer and DVR.

After input is completed, click LOGIN to enter the interface of IE end. If the input is wrong, then click RESET to clear, and input again.

4.5 Interface operation

Interface operation consists of 5 items: real time preview, record playback, remote setting, local setting and log-off, click these 5 buttons to switch.

4.5.1 Real time preview





Figure 4-8

Play control

Move mouse cursor to the icon will display corresponding operation prompt.



Open all Video.



Snapshot picture, and save it on local hard disk, system default save path is C:/DVR.



the top left corner of each channel, system default save path is C:/DVR.



PTZ control

It can control PTZ focus, iris, preset positions etc.



Click to control PTZ strike upward, downward, leftward, and rightward; because the protocol of some PTZ has slight difference, if the observation direction of PTZ rotates always along this

direction when certain direction key is clicked, then click the middle stop key of this icon to stop rotation.



Other operation

Select certain channel in preview interface (edge of the channel becomes red means selected),
 double left click mouse to enter single Video display of the channel.

2). Left click mouse to select certain channel in preview interface, then right click mouse to display window shortcut operation menu, as shown below:





Click to quickly close and open the record of the channel.

3) . Single click right mouse at certain place of preview interface, click "Open all windows" and "Close all windows" to quickly open/close all windows.

4.5.2 Record playback

Click **Click** to enter the interface of record playback, so as to remotely play back historic record in DVR hard disk, up to 16 channels can be played back at the same time, as shown below:



Figure 4-10

Click and *st* right top of the interface to set the month to be searched, click "Refresh" to display the record condition of that month on calendar interface.

Therein the date displayed in boldface indicates that there is video recording record on that day; directly click the date to search the record file list of the same day.

Select channel and type below the calendar, press "Search" to display the result of search on file list, as shown below:

ALL CH	IANN ALL T	TPE	SEARCH
	TIME	CH	SIZE
2 10::	35:55-11:35:53	13	219.3M
10::	35:55-11:35:54	16	218.3M
2 10::	35:56-11:35:54	1	218.3M
🔋 10::	35:56-11:35:53	6	224.7M
10::	35:56-11:35:53	7	221.8M
🔋 10::	35:56-11:35:55	11	229.2M
10::	35:56-11:35:53	15	220.2M
10:3	35:58-11:35:54	12	216.9M
😫 10::	35:58-11:35:54	14	217.4M
11::	35:54-12:35:54	2	212.7M
11:	35:54-12:35:53	6	216.6M
2 11:	35:54-12:35:53	7	197.6M
11::	35:54-12:35:54	13	194.7M
11:	35:54-12:35:53	15	195.7M
¥ 11:	35:55-12:35:54	1	210.5M
🕴 11::	35:55-12:35:54	8	200.1M

Figure 4-11

Double click certain segment of record on play list to play back this segment of record, the following play buttons will appear during playback.



Figure 4-12

The blue process bar shown above displays the process of download, the position of the round white point displays the process of play.



4.5.3 Remote setting

Click to enter the setting interface; this interface consists of 7 items: code setting, record setting, alarm setting, PTZ control, network setting, advanced setting, and system information.

1. Code setting

Click **ENCODE SETTING** to enter the setting interface of code setting; code setting consists of video parameter setting, audio-video binding and color adjust: click **MIDEO PARA** to enter video parameter setting, as shown below:

ECCODE SETTING. VIDEO IVARA -AV CHANNEL TIND COLORI ADJUATT -RECORD SETTING ALJIAN LIETTING	CHAMINEL REC PARA	OHANELS 👻				
DEVICE ALARM - CHANNEL ALARM - PTZ SETTING - NETWORK - MOHILE - EMAR - UPSP - ADVINCED SETTING - DATE TIME SYNC - MAINTENANCE - SYSTEM NETTING - DATE TIME SYNC - MAINTENANCE - SYSTEM INTO - VERSION INTO - USER SETTING	FRAME RATE RESOLUTION	3 (1.29) Gr 😿	GUALITY COP- STITUES 10.	251		
			Contract these for		- PROVIDE A	61 HOI

Figure 4-13

Click **AV CHANNEL BIND** to enter the setting of audio-video parameters, you can remotely modify the settings of channel name and preview switch and OSD position (channel name position), as shown below:

H-COLOIT ADJUST RECORD SETTING	AV CHARMEL BIND
ALAFIM SETTING - DEVICE ALAFIM - CHANNEL ALAFIM PTZ SETTING	
NETWORK SETTING - NETWORK - MODULE - EMAN	
- UPAP ADWINCED SETTING - SYSTEM SETTING - OUTE TIME SYNC	OR NAME DADE PREVIEW OR SD POSITION UPDP
- MARTENINCE SYSTEM NEO - VERSION INFO - HOD INFO USER SETTING	SHOW TIME SET SH

Figure 4-14

Click **COLOR ADJUST** to enter the setting of color adjust, you can remotely modify the brightness, contrast, saturation, and chromaticity, as shown below:



Figure 4-15

when you see " **CORY SETTINGS TO...**" button, you can copy the setting to the channel which you would like to copy.

CH1	F CH2	Г снз	E 044	Гоня
Г ОНб	CH7	Г сня	Г оня	Г сни
Г онц	Г СН12	CH15	F 0H14	П сния
Г оние	Г ОН17	CH18	П онія	F OHER
T 0121	F 0422	CH23	F 0424	F 0425
Г 0426	Г снет	Г сная	T CH25	Г онза
Г онзі	Г онза			

Figure 4-16

2. Record setting



For the setting of parameters, refer to device end.

3. Alarm setting

Click **ALARM SETTING**, there are 2 types of alarm setting: device level alarm and channel level alarm; click **DEVICE ALARM** to enter the interface of device level alarm, event types include hard disk failure alarm and hard disk full alarm, as shown below:



Click	CHANNEL ALARM	to enter the inter	Figure 4-1 face of ch		arm, as shown	n below:	
	ENCODE SETTING VIDEO IVANA AV CHANNES EDNO COLONI ADAUST FRECORD SETTING ALAVIM SETTING ALAVIM SETTING CHANNEL ALARM PL2 SETING METWORK SETTING METWORK METWORK	CHAINEL EVENT TYPE ENABLE MOTION SENSITIMITY OUTPUT	OWNEL 30 ALAIM NO	U U U U U U U	сон втако	10	
-EMAIL -UP-P - ADWANCED SETTING - SYSTEM SETTING - DATE TIME SYNC - MAINTENANCE - SYSTEM INFO - VERSION INFO - RED INFO	ALARM OUT TIME	10	SECOND	BUZZER TIME POST REC PRE REC TIME	0 60 099	V SEC V SEC V SEC	
	Lusen settoni					314	
For th	e setting of parameters,		Figure 4-1 d.	9			

4. PTZ setting

Click **PTZ SETTING** to enter the interface of PTZ setting, as shown below:

ENCODE SETTING	
DEVICE ALARM COMMENT ALARM PTZ SETTING METWORK SETTING METWORK SETTING METWORK MOBILE -EMAIL -UPAP OROVANCED SETTING -SYSTEM SETTING -OATE TIME SYNC -MAINTENANCE SYSTEM INFO -VERSION INFO -USER SETTING	PROTOCOL PRODUCT
	CONVERTING NO

Figure 4-20

For the setting of parameters, refer to device end.

5. Network setting

Click **NETWORK SETTING**, there are 3 options: wired network, mobile phone network and EMAIL.

Click **NETWORK** to enter the setting interface of wired network, as shown below:

D ENCODE DETTINU - VIDEO PARA - AV CHANNEL DINID - COLOR ADJUST	BASIC ATTR
- RECORD SETTING ALLASM SETTING - DEVICE ALASM - CHANNEL ALASM - PT2: SETTING MICTWORK SETTING - MODILE - EMAR.	TYPE Dec MAC DESERTINGST
LUPUP D ADVANCED SETTING - SYSTEM SETTING - SALE TIME SYNC - MUNTENANCE D SYSTEM INFO - VERSION BIFO - VERSION BIFO	PPPOE PPPOE ENABLE OF PASSWORD
- USER SETTING	DONS ENABLE OF INTERVAL THE SERVICE HOST NAME HOST NAME
	Alter and a source of

Figure 4-21

Click **MOBILE** to enter the setting interface of mobile phone network, as shown below:

ENCODE SETTING VIBEG PARA -W CHANNEL BIND COLON ADJUST -RECOND SETTING ALARM SETTING	MOBILE	
DEVICE ALAPIM CHANNEL ALAPIM PTZ SETTING NETWORK SETTING NETWORK -MODILE -EMAL -UMAP -MODILE -SYSTEM SETTING -OVERTING SETTING -OVERTING -MAINTENANCE SYSTEM SETTING -VERSION SHITO -HOO INFO -USER SETTING	PORT 1998	21.4 12121
	Figure 4-22	

For the setting of parameters, refer to device end.

Click	EMAIL	to enter the setting interface of EMAIL	, as shown be	elow:
-------	-------	---	---------------	-------

ENDER ****sd@yahoo.com PASSWORD *****			STMP PORT	0	
	ER	****sdipyahoo.com	PASSWORD		
DDRESS 1 ****oom@gmail.com	ESS 1	****oom@gmail.com			

Figure 4-23

For the setting of parameters, refer to device end.

Click **UPnP** to enter the setting interface of UPNP, as shown below:

ENCODE SETTING -VIDEO PARA -AV CHANNEL BIND -COLOR ADJUST -RECORD SETTING ALARM SETTING -DEVICE ALARM -CHANNEL ALARM -CHANNEL ALARM -PTZ SETTING NETWORK SETTING -NETWORK -MOBILE -FMAIL -UPAP ADVANCED SETTING -SYSTEM SETTING -DATE TIME SYNC -MUNITENANCE SYSTEM INFO -VERSION INFO -VERSION INFO -USERI SETTING	EnableUPnP Working methods Cord type Mapping Host Local Data Port Local Web Port Local Mobile Port	Automatic port	Pamole Data Port Remote Web Port Remote Mabile Part	2000 00 2004 2004
---	--	----------------	---	----------------------------



After UPNP is enabled, device IP will be mapped automatically to the router, it is not required to map IP on the router (this function needs the support of router and has UPNP function enabled).

6. Advanced setting

Click **ADVANCED SETTING** to enter the interface of advanced setting, which consists of 3 items: system setting, date-time synchronization and system maintenance; click **SYSTEM SETTING** to enter the interface of system setting, as shown below:

LANGUAGE	ENOLISH	1					
TV MODE	PAL	Y	ZONE	GMT+08	×		
DAYLIGHT SAVING TIM							
DST	ON	×					
DST MODE	CUSTOM	~					
START: DEFAULT AM 2:00	1ST WEEK	×	SUNDAY	JANUARY	~	00:00	
END: DEFAULT AM 2:00	1ST WEEK	×	SUNDAY	JANUARY	×	00:00	



Note: when language and video system are modified, it is required for the front-end equipment to restart to validate.

Click **DATE TIME SYNC** to enter the setting interface of system time; you can set time synchronization between the front-end equipment and computer, as shown below:



Click **MAINTENANCE** to enter the setting interface of system maintenance; you can remotely restart and restore factory default setting to front-end equipment, you can also remotely carry out software upgrade to the system, as shown below:



Figure 4-27

7. System information

Click **SYSTEM INFO**, then click the first option **VERSION INFO** to enter the interface of version

information of system information (as shown below), this interface directly shows device serial number, device type and application version, these information can't be modified.

ENCODE SETTING	VERSION INFO	
- RECORD SETTING - ALARM SETTING - DEVICE ALARM - CHANNEL ALARM - PTZ SETTING METWORK SETTING - NETWORK SETTING - NETWORK	DEVICE SN DEVICE TYPE APP VERSION	10H CHEADH T110825
- EMAIL - UPNP ADVANCED SETTING - SYSTEM SETTING - DATE TIME SYNC - MAINTENANCE SYSTEM INFO - HOD INFO		
L USER SETTING		

Figure 4-28

Click **HDD INFO** to enter the interface of hard disk information (as shown below), this interface directly shows hard disk state, total capacity of hard disk and residual capacity of hard disk etc, these information can't be modified.

ENCODE SETTING VIDEO PARA AV CHANNEL BIND COLOR ADJUST RECORD SETTING	HARD DESK I	NFOLIST		
ALAPAY SETTING Device ALAPAY CHANNEL ALAPAY CHANNEL ALAPAY PTC2 SETTING ALETYNOPS ANETWOPS ANETWOPS ANETHYDPS ADVANCED SETTING OUTE TIME SYNC ANANTENANCE SYSTEM INFO	NUMBER 1 2 1 4 5 5 7	DISK STATE NOTMAL NO DISK NO DISK NO DISK NO DISK NO DISK NO DISK NO DISK	TOTAL SIZE 1000204M	DISK FREE SIZE 11542M
- USE PL SE TTING		Eigure 4 20		No. of the local data

Figure 4-29

8. User management

Click **USER SETTING** to enter the interface of user management (as shown below), only admin has the right to add new user and user password and give corresponding authority; all user passwords must be 6 digits. After the password login of front-end equipment is enabled, the newly added user password on

IE end can also log in the front-end equipment, so as to synchronize with front-end equipment management setting.

WEBSERVER	UNE REPLAY REPORTED LOCK SETTING LOCK
ENCLOSE SETTING VIDEO PARA AV CHANNEL BIND AV CHANNEL BIND ALAUM SETTING ALAU	ACCESS ACCOUNT ACCOU
- (USEA SETTING)	

Figure 4-30

New User :

Step 1. choose new user or change user and password

	ACCOUNT	8	×	ENABLE	CN 💌	2		
3	USER NAME	userd		PASSWORD	•••••		1	
			RETYPE	PASSWORD	*****			
	CONTROL							
		CARRON	- 10 M		DESKADELFORM	-		
			5					
							~	

Figure 4-31

- Step 2. Enable: ON
- Step 3. Enter new user (can not use the same user)
- Step 4. enter the password (must be 6 digitals)
- Step 5: Set corresponding limits, PTZ CONTROL: control scanning; PARA SET: can change the technical parameter in far away place

Upgrade format: have upgrade and format HDD limit.

Step 5: Chick "SETUP" button save added user.

4.5.4 Local setting

Click to enter the interface of local setting, this interface shows local save

path for downloaded record, snapshot, and record files on computer end, click after the path display to modify the save path, as shown below:

RECORD SAVE PATH	c)(DVR)(BACKUP)	
FRAME SAVE PATH	c:\DVR\B4CKUP\	
FILE SAVE PATH	C)DVR(BACKUP)	
	Figure 4-32	

4.5.5 Log-off and exit

Click button to exit to IE login interface.

Chapter V: DVR installation guidance

5.1 Definition for interfaces of front and rear panels

- 5.1.1 Definition for interfaces of front panel
 - 1. #29 housing face board buttons definition



number	Туре	Name	Introduction
1	Turn off	POWER	Shutdown system
		REC/STOP	Recording control and stop key

	T	Γ	1
2			Fast forward/backward playback
	Function key	0-9	Numbers
			Playback
			Playback/play by frame
		ESC	Exit / Previous page
			Slowly playback
		MENU	Main menu
		PTZ	PTZ Control
		田	Image division format
		POWER	Power light
		REC	Recording
3	Status light	LINK	On means network has connected
		ALARM	Alarm light
		HDD FULL	HDD is fulled
4	IR receiver	IR	Remote control receiver
5	Control button	Direction ke y	direction key include: up (▲)、down (▼)、 left (◀)、right (▶) four buttons.
6	Enter key	ОК	Conform the operation
7	USB mouse inte rface		USB mouse interface

Remark: Different model of DVR with different number of key on the front board .while the same function key.

5.1.2 Definition for interfaces of rear pane



Number	Physical interface	Interface instruction
1	Input power	DC 12V-5A
2	Power switch	ON/OFF
3	Video input	Connect analog video (camera) signal input Standard BNC connector
4	Audio output	Connect audio output
5	Video output	One video output , connect TV or monitor, standard BNC connector
6	Audio input	Connect audio signal
7	VGA output	Connect VGA monitor
8	Net interface	Connect to Ethernet
9	USB interface	USB2.0/USB mouse
10	Alarm input	Connect alarm switch input
	Alarm output	Connect alarm switch input, I/O alarm output
	RS485 interface	Connect device PTZ and RS485 interface and so on
	+12V	Dc power supply for relay and current 100MA (Not short circuit)
11	Mic audio input	Connect Source audio signal, talkback, Mic input
12	HDMI	HDMI out put

Remark : Different model of DVR with different interface on the rear board, while usually the same function of the interface

5.2 Alarm post interface

Connection method of alarm post: firstly strip the cable to be connected, then use a small screwdriver to jack up orange part, put the cable into the receptacle then loosen the screwdriver to fasten.

5.2.1 Alarm interface definition diagram

1. General 16CHs (Alarm input.Alarm output,RS232 interface,RS485 interface)



5.2.2 Alarm input and output

The alarm input can connect to infrared alarm, smoke transducer etc.

The alarm input wiring of external power source of detector is shown in the following diagram.



5.2.2 Wiring diagram of alarm output

The wiring of external power source of alarm output is shown in the following diagram.

Alarm output loop (low level):



Wiring diagram of alarm output

5.3 Hard disk installation

So as to not damage the machine and HDD ,The installation of the HDD should be made by the professional And with the step as follows:

1) Take apart the machine cover , you will see for fixed HDD screw hole as the picture below .



- 2) take out the HDD fix screw from the accessory box
- 3) Take out the HDD bracket



4) Install the HDD to the HDD bracket and fix the screw



5) Fix the HDD bracket after installing the HDD with bracket as the picture below



Attention: After install the HDD should be formatting before using

Chapter VI: FAQ

If the problem you met is not listed in the content below, please contact local customer service personnel or call the customer service of headquarter to consult, we will serve for you with all our heart.

1. Ask: after starting up, digital video recorder can't start normally?

Answer: possible reasons:

- 1 Input power supply is incorrect
- 2 The contact of switching power cable is bad
- 3 Switching power supply is bad
- 4 Program update is wrong
- 5 The main board of digital video recorder is bad

2. Ask: digital video recorder will restart automatically or often down several minutes after

starting up

Answer: possible reasons:

- 1 Input voltage is unstable or too low
- 2 Hard disk has bad track or hard disk cable is bad
- 3 The power of switching power supply is not enough
- 4 The video signal of front end is unstable
- 5 Bad ventilation, too much dust, the operating conditions of machine are too severe
- 6 The contact between main board and other auxiliary board is bad
- 7 Hardware failure of digital video recorder

3. Ask: single channel, multiple channels, all Video have no output

Answer: possible reasons:

- 1 Please check the power supply connecting camera for loose
- 2 Please check the connecting wire of video output and input on the rear panel of DVR
- 3 Directly insert the video source into display device to judge if it is the problem of video source or display device
- 4 Check image brightness to see if it becomes 0, restore to default setting
- 5 No video input signal or the signal is too weak
- 6 Preview closed is set in display setting
- 7 Hardware failure of digital video recorder

4. Ask: can't record normally after starting up, a "H" is prompted on the interface

Answer: possible reasons:

- 1 Check if DC12V power adapter is adopted by the machine
- 2 Check if new hard disk has been formatted on the local host
- 3 The contacts of hard disk power cable, data cable are bad or damaged
- 4 Hard disk is damaged
- 5 SATA port of main board is damaged

5. Ask: what's the meanings of "R" "M" "I" "H" "W" prompted on direct connection picture

Answer:

- 1 "R" means that record is being carried out on the channel
- 2 "M" means that motion detection is triggered on the channel
- 3 "I" means that external I/O alarm is triggered on the channel
- 4 "H" means that the device has no hard disk connected or hard disk failure or disk full
- 5 "W" means that current system time conflicts with time of record file existed on hard disk
- 6. Ask: real time image problem, such as video image color, brightness have serious distortion

Answer: possible reasons:

- 1 When BNC is used for output, the selection of PAL system and NTSC system is incorrect, the image will become black and white
- 2 Digital video recorder and the impedance of monitor not matched
- 3 Video transmission distance is too long or the fading of video transmission cable is too high
- 4 The settings of color, brightness etc of digital video recorder are incorrect

7. Ask: no sound in listening

Answer: possible reasons:

- 1 Check if active pickup and active sound box are adopted, you can judge by directly short the signal cables of both
- 2 Whether the video channel with audio source connected is activated, you can single click the channel to be in full screen to judge
- 3 Hardware failure of digital video recorder

8. Ask: there is sound in monitoring, but no sound in playback

Answer: possible reasons:

- 1 Setting problem: audio record option has not been opened
- 2 Whether mute is set in playback interface

9. Ask: time display is wrong

Answer: possible reasons:

- 1 Setting is wrong, or the time is modified but "Modify date & time" is not pressed to validate
- 2 The contact of battery is bad

3 The service time of battery is too long, please replace the battery

10. Ask: why "Stop record" by clicking right mouse has no function, how to stop record Answer:

- 1 The "Stop record" key of right mouse is used to stop manual record, it can't be used to stop the record set in starting record or record schedule
- 2 If it is required to stop record, please enter into record schedule, set the time interval as no record

11. Ask: motion detection has no function

Answer: possible reasons:

- 1 The setting of motion detection zone is not appropriate
- 2 The sensitivity is too low

12. Ask: error in DVD/CD rewritable drive/USB device

Answer: possible reasons:

- 1 Data quantity exceeds the capacity of backup device, which will result in CD burning error
- 2 Backup device is not compatible
- 3 Backup device is damaged

13. Ask: the remote control can't control

Answer: possible reasons:

- 1 The address of remote control is wrong
- 2 The distance of remote control is too far or the angle is too deflective
- 3 The battery of remote control is used up
- 4 The remote control is damaged or the front panel of video recorder is damaged

14. Ask: can't login WEB

Answer: possible reasons:

- 1 Check if the network is connected, check if the LINK or 100M LED on panel displays correctly; use ping xxx.xxx.xxx (the IP address of the DVR) to check if the network is connected
- 2 Windows XP or Vista operation system is recommended, IE6.0 or IE7.0 browser is adopted
- 3 ActiveX control is inhibited, please install ActiveX control manually
- 4 No dx8.1 or above version is installed, upgrade the driver of display card
- **15.** Ask: there is mosaic in network preview Video and record file playback or no image at all Answer: possible reasons:
 - 1 If DVR is accessed through Internet, when IE is used to login, please select "WAN" in "Network environment", and select appropriate network bandwidth in "Setting > System

setting > Network environment" option.

2 Please try right key "Close window", then "Open window"

16. Ask: when setting is carried out at IE end, why "Other user is configuring..." window pops

up

Answer: possible reasons:

1 This may means that others are setting DVR. Please check if the configuration interface of DVR end is in open state, please exit.

17. Ask: digital video recorder can't control PTZ

Answer: possible reasons:

- 1 Front end PTZ failure
- 2 PTZ decoder setting, wiring, installation are incorrect
- 3 Wiring is incorrect
- 4 The setting of PTZ in digital video recorder is incorrect
- 5 PTZ decoder and the protocol of digital video recorder not matched
- 6 PTZ decoder and the address of digital video recorder not matched
- 7 When multiple decoders are connected, the farthest end of A B lines of PTZ decoder should be added with a 120 Ω resistor to eliminate reflection and make impedance matching, otherwise unstable PTZ control may be resulted.
- 8 The distance is too far

18. Ask: how much capacity is occupied in hard disk by record per hour

Answer:

- 1 For audio record, about 14Mbyte capacity is occupied for each channel
- The capacity occupied in hard disk by video record depends on the selection of "Record mode > bit rate": excellent, good, medium, and also depends on the motion amount of pictures within the time interval; if the picture is still, then the consumption of hard disk is lower; if the picture is motive, then the consumption is higher. When "excellent" is selected, about 320Mbyte capacity is occupied for each channel of video per hour; when "good" is selected, and the pictures are still or small motive, then about 50~100Mbyte capacity is occupied for each channel of video per hour; when small motive, then about 100~200Mbyte capacity is occupied for each channel of video per hour; when "medium" is selected, and the pictures are still or small motive, about 50~100Mbyte capacity is occupied for each channel of video per hour; when "medium" is selected, and the pictures are still or small motive, about 50~100Mbyte capacity is occupied for each channel of video per hour; when "medium" is selected, and the pictures are still or small motive, about 50~100Mbyte capacity is occupied for each channel of video per hour; when "medium" is selected, and the pictures are still or small motive, about 50~100Mbyte capacity is occupied for each channel of video per hour; when "medium" is selected, and the pictures are still or small motive, about 50~100Mbyte capacity is occupied for each channel of video per hour; if the pictures are large motive or many small motive, then about 100~150Mbyte capacity is occupied for each channel of video per hour;

			Note :
			When setup IP Address, the Gateway,
			DNS must be consistent with the local
			network. For example: the local
19.	Ask	x: I/O alarm has no function	gateway 172.20.80.1,DNS:
	۸n	swer: possible reasons:	202.96.134.133, then the DVR gateway
	All		should be 172.20.80.1, the DNS:
	1	Alarm setting is incorrect	202.96.134.133. The DVR IP address
	2	Alarm wiring is incorrect	setting does not conflict with other
	3	Alarm input signal is incorrect	computers or network devices in the
	4	One alarm device connects to 2 c	ircuits at the same time

Chapter VII: APPENDIX

Appendix 1 E-Video

Operation Steps :

1. In the domain name applications before, first set DVR's IP address, ne mask, gateway, DNS

THORK	Hetu	ork	BOHS	Nohile	E-mail
	Turne	Static	12		
	100000	09200	н		
122.00	10 10	a cidad a como			
Web	Fort	09201			
IP nde	fress	172.020	.000.227		
Net	tnask	255.255	.255.000		
Gat	tenny	172.020	.080.001		
DMS Se	erver	202.096	134.133		
				Contractory	10 1000000
fault				Apply	Exit

2、Test DVR network connectivity, to detect whether the DVR normal connected.



In computer host start menu-run inside, in input CMD ping command input. For example: ping 192.168.1. XXX (this IP for the DVR set IP address)



- a) Entry E-Video, there are two styles of it one is Manual , the other is automatic
- b) Automatic
- c) The main menu-> network Settings-> E-video Settings-> > choose automatic enable domain name-(pictured)

Hode	1	0	
User ID	45AFD1	.duripc.net	

Step 1 : Log in DVR

First open IE browser address bar in the application of success in input domain name: http://45AFD1.dvripc.net/, Click Enter.

A 47 1 1 4	to be advantationed and and and and the set of the set of the	10 B 4
< 3 d + 2 d + some manual and a - 2 d - 2	C III Web Application Manager >	100
	Unice LOGM	
integration of the second seco	No. In	

 Remrk : If access failure please visit router, check the UPNP feature.

d) UPNP Feature :

Step 1 : input IP add of router, Step 2 : forwarding rules-virtual server ->UPNP setting, turn on UPNP After that, Make sure DVR's IP and Mapping port.

Manual

Main Menu->Network setting ->E-Video->Manual (as follow)

	Manua I				
User ID	555AAA	. d	vripc.m	rt	
	Register				

Automatic style allow revise the user ID, Click [register] "E-video Update Success" can be used it, Log in :as follow above of user ID, input the address on IE: http://555AAA.dvripc.net/ (as picture show 555AAA is manual style user ID), Press "Enter" button input DVR user name and password $_{\circ}$

e) Enter by user ID

Input the http://www.dvripc.net on IE enter into Domain name site management

C S Stops + C C X Stops +	
My CAvideo Net Video Manager Expert	, balan Der Obeile bendent RBRAR
My Evideo My Evideo H.264 Dnvif Dnvif	Viene Devering Logis Entrance *Device Logis The Logis Device 1000: Paramet: Strew 1 Sub * Device Login
Click here to demined and install the Articul Sets If this is your first time to Legis, planar demined and inst instruction. If it will demin to wrk, planar monotall the old a dis, receipen the page and try it again.	stall the Actival control under the
	4, 100% ·

As follows, Choose **[Login Device]**

O Dev	ice Lo	gin	O Vs	er Login
Device DDNS:				. dvripc. net
UserName:	1			
Password:				
Stream :	Sub	•		
	Devi	ice	Login	

Input the user ID of automatic style of E-Video, and DVR user name and passwork, can be log into the DVR_{\circ}

Remark :

The first open web will pop up a sign not confirm tip box, this time control, please click "installation" or "is" button to determine the installation.

After the completion of the plugin installation will be automatically popup land casing: enter your user name: admin password: 123456 (default) choose network environment (LAN or WAN)

LANGUAGE	ENOLISH	
USER D		
PASSIACIPD		_
NETWORK:	LAN	

to open the window, you

When finished, click on the login screen to enter IE, click on the icon **East** can monitor the video images

