

H.264 DVR

4/8/16-CH Embedded Digital Video Recorder

V2.1B

USER MANUAL



Notes:

- ◆ The power supply of this DVR is provided through DC12V3A adapter, please check the power outlet before installation and ensure it can meet the requirements of the adapter;
- ◆ Do not place the DVR at a place subject to rain and 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 high temperature environment;
- ◆ The DVR's back panel should be placed 15cm or more away from other objects or wall for cooling;
- ◆ The DVR should work under temperature, humidity and voltage according to its technical specifications;
- ◆ The space where DVR is installed should not be stored with corrosive chemicals that may produce volatile gases to avoid affecting the DVR's life.
- ◆ The DVR should be installed in a space without much dust, and the environment should be kept clean and tidy.
- ◆ Proper grounding should be guaranteed during operation;
- ◆ The DVR should be installed to ensure proper connection with other devices.
- ◆ Please buy HDD from official channel to meet DVR's long-time and large data reading and writing requirements.

Statement

- ◆ This manual only introduces basic operation, and please refers to the E-manual in the CD for detailed operation.
- ◆ Please refer to the real product and this manual is just for reference.
- ◆ Products update without further notice. Nuances of partial functions are permitted after updating.
- ◆ Please contact the Customer Service Department for the latest program and supplementary instruction files.
- ◆ This manual is applicable to various models, and the specific operation of each product is not listed here. Users can operate the DVR based on this manual for the actual products.
- ◆ We have tried our best to ensure the completeness and accuracy of this manual. However, due to the unstable environment and other reasons, the real value of some data may differ. If any problem or dispute arises, the company's final explanation will prevail.
- ◆ If carrying out operation not according to the instruction of this manual, the users shall bear the losses sustained.

Contents

Chapter 1 Open-case inspection and quick installation	3
1.1 Open-case inspection.....	3
1.2 The Package contains the following accessories	4
1.3 Features	4
1.4 Product appearance and port	5
1.5 Quick Installation	5
Chapter 2 Software interface basic operation	7
2.1 Power on and login.....	7
2.2 Main menu.....	8
2.3 Recording mode	8
2.4 Recording Search and Playback	9
2.4.1 Search and playback.....	9
2.4.2 Recording backup	9
2.5 Alarm Setup.....	10
2.5.1 Alarm basic setup.....	10
2.5.2 E-mail alarm setup	11
2.6 PTZ Control	11
2.7 Motion Detection.....	12
2.8 Network setup	13
2.9 Port mapping	14
2.10 Mobile phone surveillance	15
2.10.1 Mobile phone surveillance.....	15
2.10.2 Mobile Phone end login.....	15
2.11 Client end and playing software	16
2.11.1 Client end installation & running	16
2.11.2 Player	17
2.12 IE login	17
2.12.1 Controls installation download.....	17
2.12.2 IE login	18
2.13 Central Management Software (CMS).....	19
Appendix: System Connection Picture.....	21

Chapter 1 Open-case inspection and quick installation

1.1 Open-case inspection

- ◆ When you receive the products, please check if the DVR is complete or make sure if there is any accidental damage during transportation.
- ◆ Then, please open the package and check if the accessories are complete. You can remove the protective film of the DVR package.

1.2 The Package contains the following accessories:

- ◎ One IR remote controller
- ◎ One pair of remote controller batteries
- ◎ One piece of Product Certificate
- ◎ One piece of product Warranty Card
- ◎ One piece of User Manual
- ◎ One pair SATA HDD cable (installed in the case)
- ◎ One DC12V3A power adapter
- ◎ One HDD bracket (already installed) and a set of mounting screws
- ◎ One piece of CD

Specific product accessories may be different, so please refer to the real products.

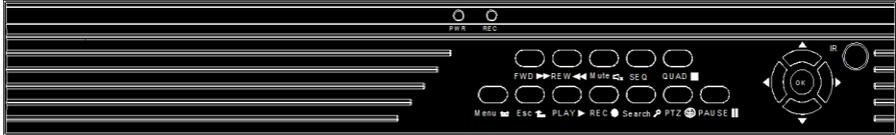
1.3 Features:

Item	Description
Operation System	Embedded LINUX
Video Compression	H.264
Video In	4/8/16 Channel Video In (BNC Connector)
Video Out	1channel BNC,1 channel VGA
Audio In	4/8/2 Channel RCA
Preview	Support 1/4/9/16 channel preview and sequenced play channel by channel
Alarm In	No/No/8 channel alarm in
Alarm Out	No/No/1 channel alarm out
Preview Resolution	PAL:D1(704*576), NTSC:D1 (704*480)
Recording Type	Fixed time recording,Motion detection recording
Recording Frame	PAL: 25fps/channel NTSC: 30fps/channel,frame is changeable
Video Resolution	4channel full D1 realtime,8 channel at 1 channel D1 realtime ,16 channel at 16 channel CIF realtime
Video Playback	Support local 4/8 channel playback
Video backup	USB,mobile HDD,Internet backup
Video Play	Special player software,support AVI format conversion
Motion Detection	Support
Snapshot	Support
Mail alarm	Support alarm to appointed email
PTZ Control	Support preposition cruise,support PELCO-D,PELCO-P etc.
HDD Capacity	Support 1 SATA,maximum HDD capacity is 2TB
Reminder for remaining HDD recording time	Support
Internet interface and protocol	RJ-45 10/100M, SupportTCP/IP、DHCP、DNS、DDNS、NTP etc.
IE browse	Support realtime recording,video playback and backup,settings,PTZ Control
DVR client	Support realtime recording,video playback and backup,settings,PTZ Control
CMS	Support realtime recording,video playback and backup,settings,PTZ Control
Dual stream	Support (Main stream & Substream)
Group playback	Support 5 users to login the same DVR at the same time
Language	Support Chinese,English,French,Arabic,Spanish etc,15 languages.
Mobile view	Support Windows,Symbian,Apple,Blackberry,Android etc.
SDK	Support (Optional)
Software update	Support software update by USB
Digital enlarge	Support (by mouse)
USB interface	2
Power	DC12V/4A
Working temperature	0℃-50℃
Working moisture degree	10%—90%

1.4 Product appearance and port

1.4.1 Front panel

Front panel 1:



No.	Key	Function	No.	Key	Function	No.	Key	Function
1	FWD	Fast Forward	9	PLAY	Video Playback	17	IR	Remote sensor
2	REW	Fast Backward	10	REC	Recording	18	PWR	Power indicator
3	MUTE	Mute	11	SEARCH	Video Search	19		
4	SEQ	Sequenced Video Play	12	PTZ	PTZ	20		
5	QUAD	Multi-screen Preview	14	PAUSE	Pause	22		
6	MENU	Menu	15	▲▼◀▶	PTZ Direction	23		
8	ESC	Escape	16	ENTER	Enter	24		

Front panel 2:



No.	Key	Function	No.	Key	Function	No.	Key	Function
1	REW	Fast Backward	9	CH+	Channel Plus	17	OK	OK
2	PLAY	Video Play	10	Multi	Multi-Screen preview	18	PWR	Power Indicator
3	FWD	Fast Forward	11	MENU	Menu	19	LINE	Internet Indicator
4	LAST	Last Video	12	SEARCH	Video Search	20	REC	Recording Indicator

5	NEXT	Next Video	13	MUTE	Mute	21	IR	Remote Sensor
6	PAUSE	Pause	14	REC	Recording	22	Power	Power Key
7	ESC	Escape	15	PTZ	PTZ	23		
8	CH-	Channel Minus	16	▲▼◀▶	PTZ Direction	24		

1.4.2 Back panel

Back panel 1:



Back panel 2:



Back panel 3:



NO.	Key	Function
1	VIDEO IN	Video In(BNC Connector)
2	AUDIO IN	Audio In
3	VIDEO OUT	Video Out(BNC Connector)
4	AUDIO OUT	Audio Out
5	VGA	VGA Video Out(to connect VGA device)
6	NETWORK	Network interface,to connect RJ45
7	RS485	To connect RS485 device like PTZ.A is positive,B is negative,G is ground.
8	ALARM	Alarm out
9	DC	DC 12V (Limited load ability,can not be used for other devices)
10	SENSOR	Alarm in
11	⏏	To the ground
12	DC 12V ⏏	Power (DC12V 4A)

1.5 Quick Installation

1.5.1 HDD installation

HDD must be installed by technicians to avoid damage to the equipment and hard disk. The DVR mainframe must be powered off before operation. The DVR supports HDD with SATA HDD interface.

Installation procedures are as follows:

- A. Open the equipment and a HDD bracket can be seen;
- B. Connect the HDD data and power cable well;
- C. Put the HDD into the bracket and target the screw holes at the bracket;
- D. Fix the HDD on the bracket with screws, and cover the DVR.

Note: The newly installed HDD can be served for video recording after formatting on the mainframe.

1.5.2 Power on

Connect the DC12V3A power adapter into the power socket, and press the power button, the recorder will be on. The power indicator "POWER" is on at this time, the monitor will display 4/8/16 channel monitoring image.

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

2. The newly installed HDD cannot be used until formatted in the equipment as follows: Main Menu →HDD →HDD Format. The system will be restarted after completion of formatting.

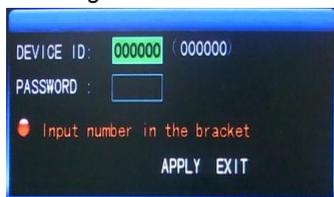
Chapter 2 Software interface basic operation

2.1 Power on and login

The DVR's initial device ID is 000000 without any password, the user can enter main menu directly. Users can set ordinary password and administrator password. The administrator has all the operating privileges, while ordinary users can only carry out monitor and video search/ playback operations. (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 main menu after the password is set, the system will display

“user login” interface:



Device ID: It is just okay to enter device ID displayed on the right side in corresponding input box. The default ID will be guided when mouse operation is done. We recommend setting a password when remote controller is operating many types of equipment, to distinguish through targeted equipment code input, or the remote controller will disturb the adjacent mainframe.

2.2 Main menu

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



【Playback】 : Search detailed recording files
【Record】 : Set the recording mode including channels, quality, frame rate, etc.
【HDD】 : Check HDD capacity and formatting
【Setup】 : Setup of system basic information including language, time, user password, etc.
【Advanced】 : Setup of alarm, motion detection, and mobile phone surveillance, etc.
【Exit】 : Exit menu

Note: For detailed operation, please refer to the detailed operation manual in the CD.

2.3 Recording mode

The default recording mode used for the first time is the normally open and continuous video. Enter the Recording mode from “Main menu”→“Record”, as shown below:

Channel: Select the corresponding video channel on or off (16ch DVR with 16 channels).

Resolution: D1 (704x576), Half-D1 (704x288) and CIF (352x288), among which D1 is of the highest resolution.

Quality: best, fine, and normal quality, corresponding to 3 data stream standards of highest, high and medium bit rates

Frame rate: Adjust video frame rate

Note: The total frame rate for 4 channels DVR is 100 fps, for 8 channels is 275 fps, and for 16 channels is 400 fps.

Audio: Set the record switch.

File length: There are four options -15 minutes, 30 minutes, 45 minutes and 60 minutes.

REC mode: Startup recording and Timing



recording

When powered on: starting recording when the DVR 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:

Channel: Select "All" or select a single channel

channel

Time configuration: Set the recording type in each time interval of each day. Red, green, and background color represent the alarm recording, regular recording, and not recording.

2.4 Recording Search and Playback

2.4.1 Search and playback

Enter the Video Search screen from “Main Menu” →“Video Search”, as shown below:



1) Enter the specific date and time in the time frame and click **【PLAY】**, and the DVR plays back the video from the input time.

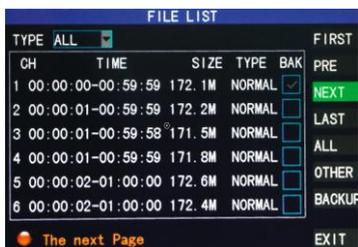
2) Enter the specific date and time, click **【SEARCH】** to display all recording status this day (the time schedule in the above picture), the red color representing alarm recording, green representing normal recording, the background representing no recording. Select

the time and click **【PLAY】**, playback the recording.

3) Click **【FILE LIST】**, the detailed file of the video listed (as shown in the picture below), select and playback the file you want to.

2.4.2 Recording backup

Enter the "file list" interface (picture below) for backup operations.



The backup of recording files can be achieved through USB storage device. Before backup, the user must insert storage peripheral devices to USB2.0 slot first. Move the cursor up and down in the interface of detailed file list and select "Backup". The file is undergoing backup

and the backup progress is displayed on the screen.

Note: 1. When the space of the backup device is smaller than the recording file

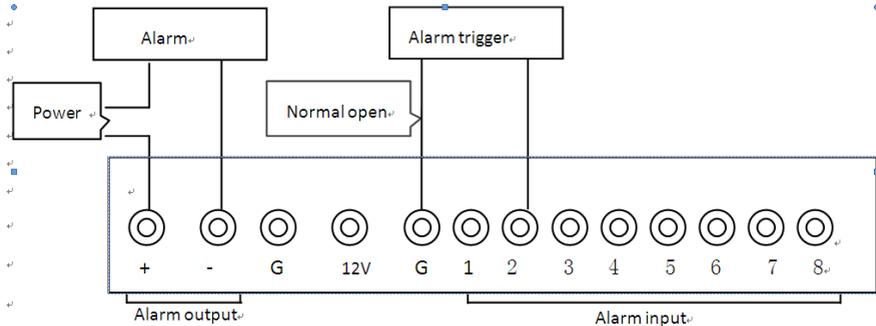
capacity, the system will remind the user of insufficient space.

2. After finishing backup, exiting from the backup device directly is ok;
3. Please refer to the operation manual in the CD for network backup.

2.5 Alarm Setup

Alarm port connection

The input side on the back panel of DVR as Figure below, please refer to the physical interface of the faceplate:



Note: The above picture is the type of normally on alarm, and normally off is the opposite way.

2.5.1 Alarm basic setup

Enter from **【Main Menu】** → **【Advanced】** → **【Alarm Setup】**, as shown below:

I/O ALARM: Each channel corresponds to an I / O alarm status, which means that alarm recording of corresponding channel will be started when one channel alarm input is valid.

ON: indicating that external alarm circuit is open circuit without alarm but closed



circuit with alarm.

OFF: external alarm circuit that is closed circuit without alarm but open circuit with alarm.

Note: When an alarm is valid, a red letter "I" will display on the corresponding screen.

HDD LOSS: On: When the system cannot recognize the HDD, a red logo "H" will display on the channel.

HDD SPACE: On: When the remaining space of the HDD is less than 500M, the DVR will have alarm indication.

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 MANAGEMENT OUTPUT: including alarm output, buzzer and post alarm recording.

2.5.2 E-mail alarm setup

Email setup Prerequisite: The mainframe must be connected to the WAN. Please refer to the Chapter Network for network connection.

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

SSL: a secure link transmission protocol. "Off" is usually chosen.

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 mailing address of the 163 mailbox is smtp.163.com; please check this address from your mailbox supplier for different mailboxes.

SEND EMAIL: the mailbox address used to send mails, the above-mentioned SMTP server is also the server of the corresponding

sender address.

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. 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.

2.6 PTZ Control

Enter from "Main Menu" → "Advanced" to the "PTZ setup" interface, as shown below:

CHANNEL: selecting the channel to which the dome camera is connected (to select any of the latter 4 channels, click "Next Page")



PROTOCOL: selecting the dome protocol of the corresponding brand and model, with three 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.

Just set “protocol”, “baud rate” and “address code” in order to set the PTZ.

Click "PTZ control" in the main interface, the following screen will pop up (left picture):



Operate the PTZ with mouse through the keypad on the interface. Set the cruise point in the cruise setup, as shown on the right picture above.

2.7 Motion Detection

Enter the Motion Detection screen from “Main Menu” → “Advanced” to “Motion Detection”, as shown below:



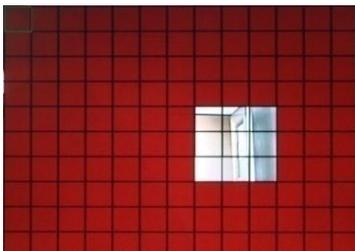
STATUS: Each channel has a corresponding switch. Select “On” or “Off”.

SENSITIVITY: Each channel has a corresponding sensitivity setting, with the 4 levels of 1, 2, 3 and 4, in which 4 is the highest. Select sensitivity for confirmation.

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.

Motion detection setup procedures:

- Turn “On” the corresponding channel in the “Channel Switch” option;
- Set the sensitivity level as necessary, usually set at 3 or 4;
- Set the motion area of the corresponding channel in the “Area Setup” option;
- In the “Recording Mode” screen, set the corresponding channel to “On” in the “Channel” option;
- 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 is triggered, a red letter “M” will appear in the screen of this channel. See “Alarm processes” in Section 2.5.1 for alarm processing.

Operating prompt:

Remote controller operation: Use “” (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.

For detailed operation procedures, please refer to the manual in the CD.

2.8 Network setup

Enter the “Network” screen from “Main Menu” →“Advanced” to “Network Setup”, as shown below:

TYPE: with 4 options: STATIC, DHCP 、PPPOE and 3G.

STATIC: allocating an IP address manually.

DHCP: acquiring an IP address automatically (left picture below).

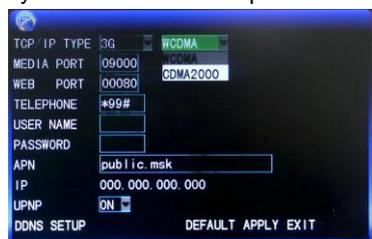
After selecting the DHCP mode, restart the system after confirmation. After starting, the system will establish a connection with the DHCP server automatically. When this is successful, this unit will be allocated with an IP address, which will be displayed on the screen.

PPPOE: broadband dial-up network access, as shown on the right picture below:



3G:3G function(support CDMA 2000 and WCDMA),select WCDMA.After success to apply, exit from 3G,and then you can see IP info .

PPPOE 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 PC, usually being 9000 by default. If this port of the PC is occupied by any other service, please modify it to another unused port.

WEB PORT: the http 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://192.168.1.223:88>" in the address bar when accessing the DVR via the IE.

IP ADDRESS: allocating an IP address according to the network environment of the DVR

SUBNET MASK: filling in a subnet mask according to the network environment of the DVR

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

DNS1 and DNS2: 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.

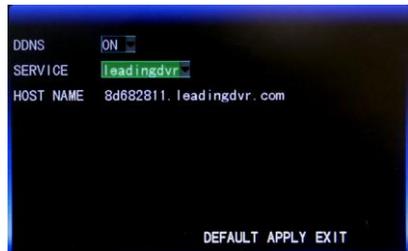
UPNP: When the UPNP function is on (UPNP function on the router end is also on), then the DVR will map the port and IP into the router automatically.

DDNS SETUP

Click "DDNS Setup" to enter the screen (picture below):

DDNS (Dynamic Domain Name Server): with the two options of "ON" and "OFF"; when a dynamic domain name server is available, please select DDNS "ON";

SERVICE: The user may select his/her desired DDNS server, with the 6 options of 3322; dyndns;change ip; no-ip; leadingdvr and oray.



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

USERNAME: Enter the user name registered on the dynamic domain name server;

PASSWORD: Enter the password registered on the dynamic domain name server.

Please refer to the detailed manual in the CD for the application of domain name.

2.9 Port mapping

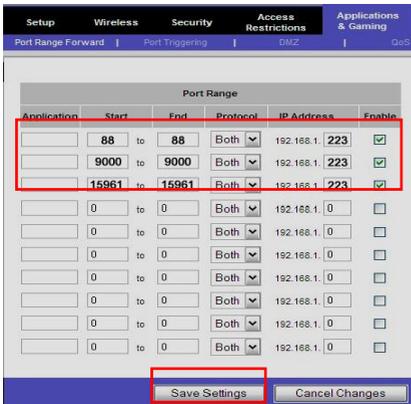
(If the router and DVR both switch on UPNP functions, this step can be saved)

Mapping steps:

- 1) Set the host IP address, refer to Network Setup.
- 2) Login the router (taking Cisco router for example). If the IP address of the router is 192.168.1.1 and after this IP has been entered in the IE address bar, a login prompt box will appear, as shown below:



Click OK to enter the router main interface, click the **【Applications & Gaming】** as shown below:



Put the DVR's IP and port (WEB port, media port, phone port) to fill in the corresponding location, the protocol is "Both", and the state is "Enable" or Reboot. Then click "Save Settings", add other ports in the same way. 15961 is mobile phone monitoring port, this port must be added in order to use the mobile phone surveillance function. As shown above, 88,9000 and

15961 port can all be modified in the DVR main menu.

2.10 Mobile phone surveillance

2.10.1 Mobile phone surveillance

The mobile phone surveillance function of this series DVR is supported by mobile phones of the Windows Mobile and Symbian operating systems.



Here you can check the user name and password of the monitoring video by using the mobile phone to log in the DVR.

Service port: The setting range is 1024 – 65535. This port needs to be mapped on the router, and the setting method is the same as the mapping method of network setting.

User name: admin by default.

Password: empty by default

2.10.2 Mobile Phone end login

Taking the iPhone for example, run the iPhone's APP Store program and search KMEye, find the installation package of application program, and click to install.

Open the mobile phone software kMEye. For the first-time use, modify the

parameters. Click **【Settings】** to enter the parameter setting interface (left picture below), and the default port number is 15961. The user can set other port number on the DVR end. The default password is empty. Set the parameters well and connect the server, mobile phone preview interface will display (right picture below):



Note: Please refer to the Mobile Phone Surveillance System Client End Installation method and application instruction.

2.11 Client end and playing software

2.11.1 Client end installation & running

Open client end file "NetDvr.exe" in the CD and run one of these files. After the successful installation prompts, run the desktop program (NetDvr) , it will show a login interface, as shown below:



IP address: enter IP address or domain name .

Media port: enter DVR media port.

Password: enter DVR network password and empty by default.

Network:

LAN: If the computer and DVR are in the same LAN, choose "LAN" mode. In this mode, the image video transmission format is CIF and frame rate is 25fps.

Internet: If the computer and DVR are in different LAN, choose "Internet". In this mode, the image video transmission format is CIF and the frame rate is 6fps.

Language: Chinese and English are optional.

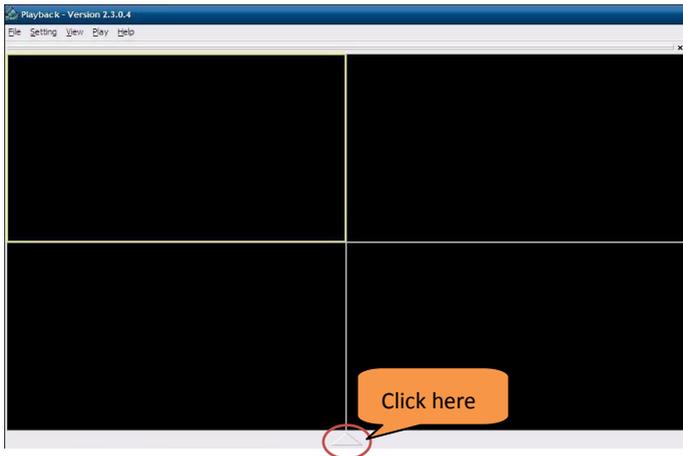
OFFLINE: open the attached player and play local backup video file.

Note: After successful login, the interface is the same as IE end. Please refer to the manual in the CD for detailed operation.

2.11.2 Player

H.264 format video compression is adopted, and a special player is needed. Open the player's installation program "PlaybackSetup.exe" in the CD.

After installing successfully as prompted, run the desktop program (Playback software)  and the player interface will appear:

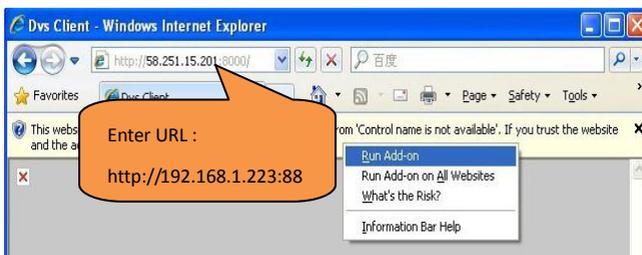


Enter from "Files" → "Open local files", and open the contents where recording files are saved. Choose the format as .264, and select and play the recording file required, the playing recording file will display on the above screen. Corresponding playing operation and setting can be carried out. Please refer to the manual in the CD for detailed operation.

2.12 IE login

2.12.1 Controls installation download

For example, if the IP address of the DVR is 192.168.1.223:88. The URL also can be Domain or the public IP address.





2.12.2 IE login

After finishing the plug-in units installation and then login. For example, the DVR's domain name is dvrtest001.3322.org and the port is 88, enter the domain name <http://dvrtest001.3322.org:88> in the IE address bar, as shown below:



Password: Enter the IE password of DVR. This password is set at the Internet end. Please refer

to the manual in the CD for details.

Network:

LAN: If the computer and DVR are in the same LAN, choose “LAN” mode .In this mode, the image video transmission format is CIF and the frame rate is 25fps.

Internet: If the computer and DVR are in different LAN, choose “Internet”. In this mode, the image video transmission format is CIF and the frame rate is 6fps.

Language: Chinese and English are optional.

Login: Click to login into DVR internet.

Reset: Re-enter the above information.

After login, the following real-time preview screen will display. Users can preview at the IE end and perform the functions of video playback, video setup, alarming setup, etc. Please refer to the manual in the CD for detailed operation.



2.13 Central Management Software (CMS)

This system supports connection to DVR through Internet, not through the support of intermediate server. It is convenient for user's management.

Software installation: Double click to run CD file "DVRCMS.ms", finish as prompted.

After successful installation, double click desktop icon  and run software. Display as the following picture:

CREATE ACCOUNT

USER NAME

PASSWORD

RE-ENTER

LANGUAGE English ▼

【user name】 : Create the initial user name for login

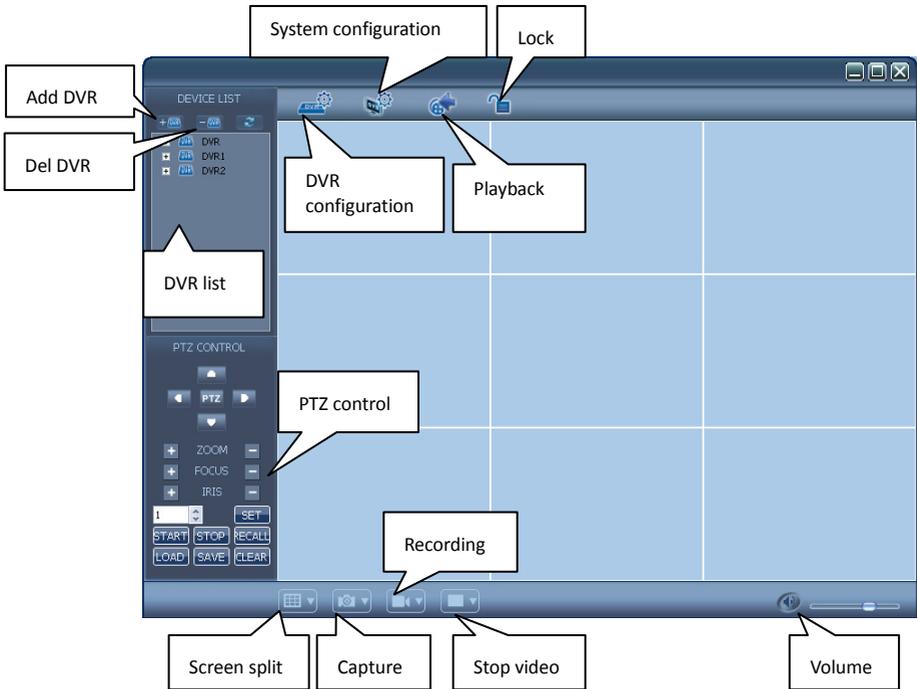
【password】 : Create the initial password

【Re-enter】 : Confirm the initial password

【Language】 : Chinese and English are optional.

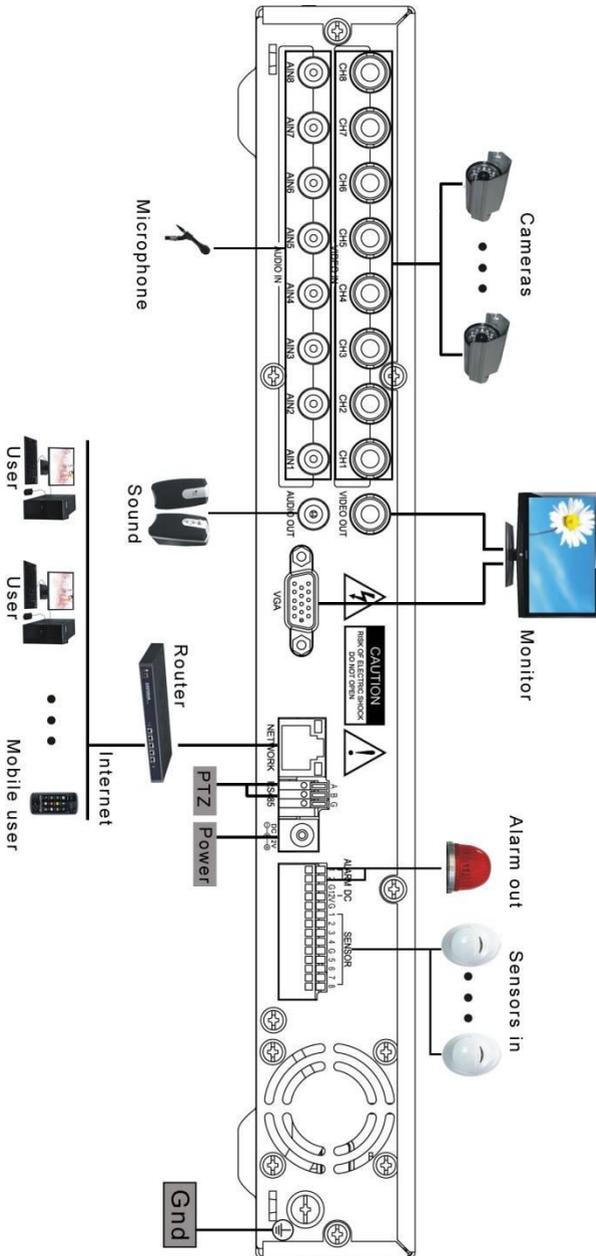
Note: If the earlier version of this software has already been installed, please manually delete the installation menu "user.cfg". The default installation menu is C:\Program Files\DVRCMS\.

Please enter into the main interface of management software after successful login:



In the management software, there are adding device, live preview, video playback, system setup, advanced setting, PTZ control and so on. Please refer to the detailed instruction of CMS in the CD for specific operation.

Appendix: System Connection Picture



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