

HD-NVR user manual

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This product is an excellent digital surveillance equipment designed specifically for the field of security. Embedded LINUX operating system, making the system more stable; using standard H.264MP video compression algorithms and a unique spatial and temporal filtering algorithm to achieve a high-quality, low bit-rate synchronous audio and video surveillance; powerful network services greatly enhance the ability of network data transmission and remote control capabilities.

Part 1 Basic Operation

1. Basic Installation

1.1 Hard Disk Installation

For the first use, please install the hard disk. The quantity of Hard Disk is based on requirement and specifications of the device. Note: DVR can run and monitor normally without hard disk, while it can't record and playback.

1.2 Mouse Connection

There are 1 USB port at back panel and 1 USB port at front panel, the 2 USB ports could be used for mouse, Flash stick, 3G & WIFI module, mouse connection is depend on products specifications based on different products.

2. Starting

Plug the power supply and turn on the power supply switch. Power supply indicator light shining indicates turning on the video recorder. After finishing the startup you will hear a beep, and the default setting of video output is multiple-window output mode.

Note: Restart the power after the abnormal power off, DVR will automatically recover the state before power off.

3 . Turn Off

There are two methods to turn off the DVR which are soft switch and hard switch. Entering [Main menu] and choosing [Logout] in the [turn off the system] option is called soft switch. Pressing the power supply switch is called hard switch.

Note: The setting information must be saved before replacing the battery otherwise information will lose.

4 . Login

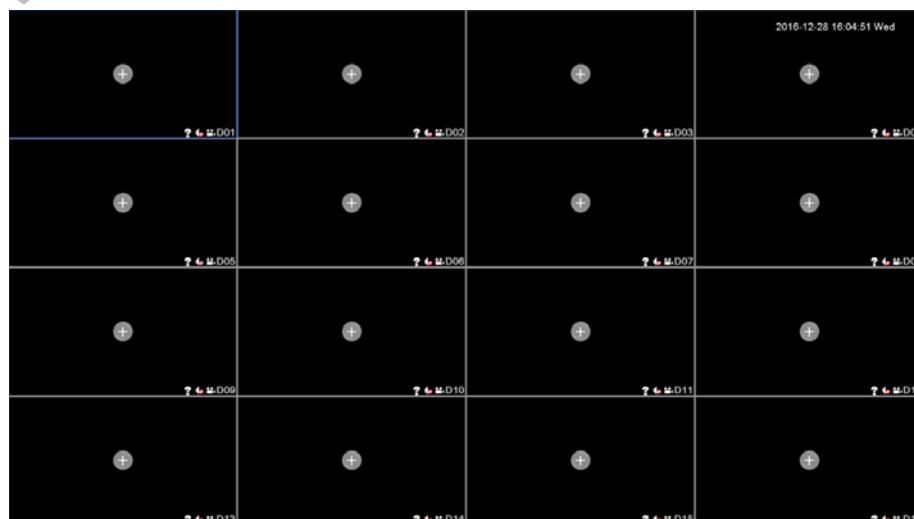
When the DVR boots up, user must login and the system provides the corresponding functions with the user purview. There are two user settings which are admin and guest; and they have no passwords. “admin” is the super user purview; “guest” is the common user purview which have right to preview and recording playback. User ”admin” and “guest” can change the password, but can’t change the right.



Password protection: If the password is continuous wrong seven times, the alarm will start. (Through reboot or after half an hour, the account will be unlocked automatically) For your system security, please modify your password in “User management” after first login.

5 . Preview

Login normally and choose the multi-menu preview status. The system date, time and channel name are shown in each viewing window. The surveillance video and the alarm status are shown in each window. The normal interface have icons as bellow: channel name, recording mark, audio mark. when trigger alarm, it will be display: video detection, video shelter, video loss and etc alarm mark.



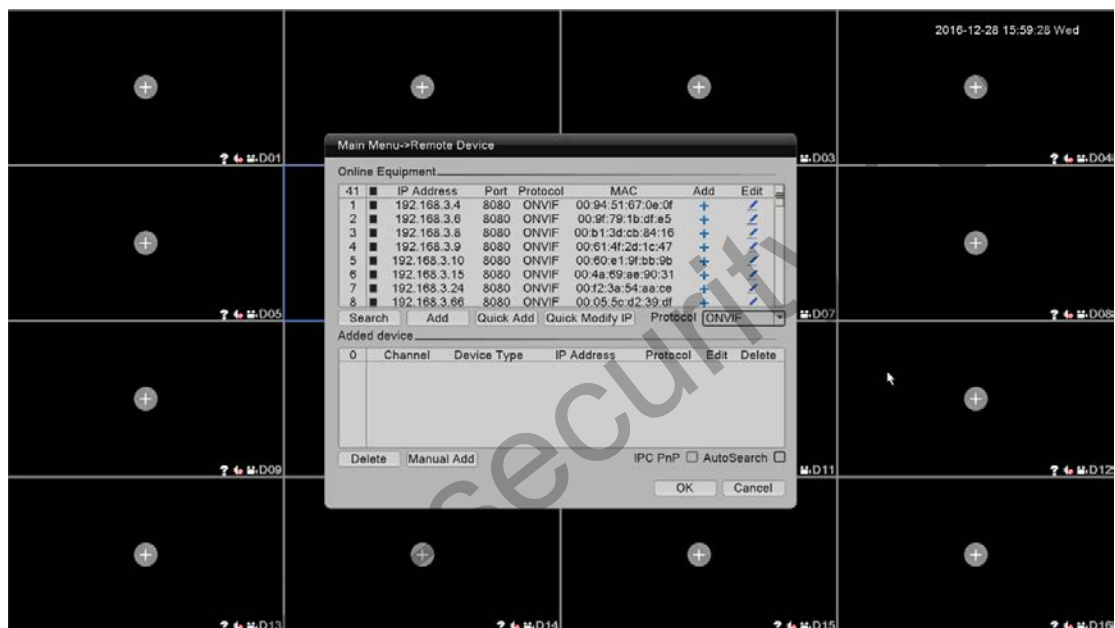
6. Remote IPC

6.1 Add IPC

Ways:

1.Right click-> Quick add

2.Right click-> Manual add or Main menu->System-> Remote device, as below



Online equipment

[search] to search IPC in LAN.

[add] choose the IPC you want to add

[quick add] add IPC for all vacant channel

[protocol] choose the protocol for connecting IPC, generally ONVIF.

Modifying IP address of IPC: click  , entering the “Modif IP” interface, then modify IP.

Added device

[delete] to delete added IPC

Manual add

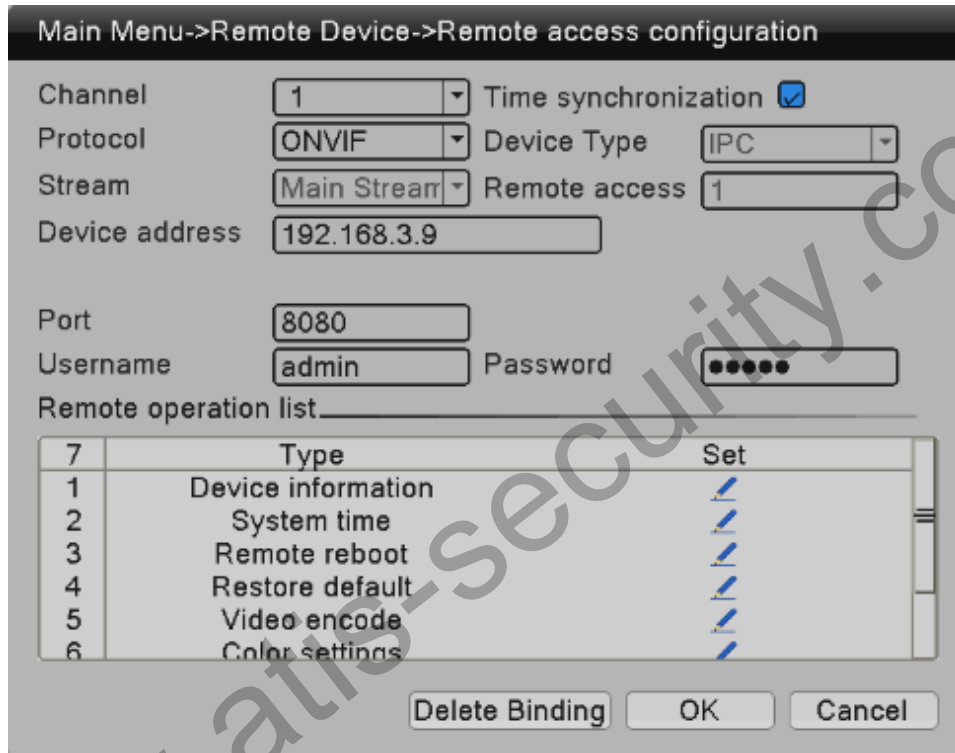
Choose protocol, input IPC address, user name and password to add.

IPC PnP

After choosing the function, system will add IPC for vacant channel automatically every one minute.

6.2 Remote access configuration

Double click one IPC in added device box or click , it will pop up the interface for remote configuration IPC as below.



	Type	Set
1	Device information	
2	System time	
3	Remote reboot	
4	Restore default	
5	Video encode	
6	Color settings	

[**time synchronization**] sync IPC and NVR in time

[**user name**]user name to log in IPC

[**password**] password to log in IPC

[**delete binding**] to delete IPC

Remote operation list

[**device information**] to check the information of IPC

[**system time**] to modify IPC time

[**remote reboot**] to reboot IPC

[**restore default**] restore IPC default configuration

[**video encode**] set video parameter, like resolution, frame rate, bit rate etc.

[**color settings**] to adjust the image in brightness, contrast, saturation, hue.

[**machine name**] to modify IPC name

Note: to modify NVR channel name, it's in system-> GUI display.

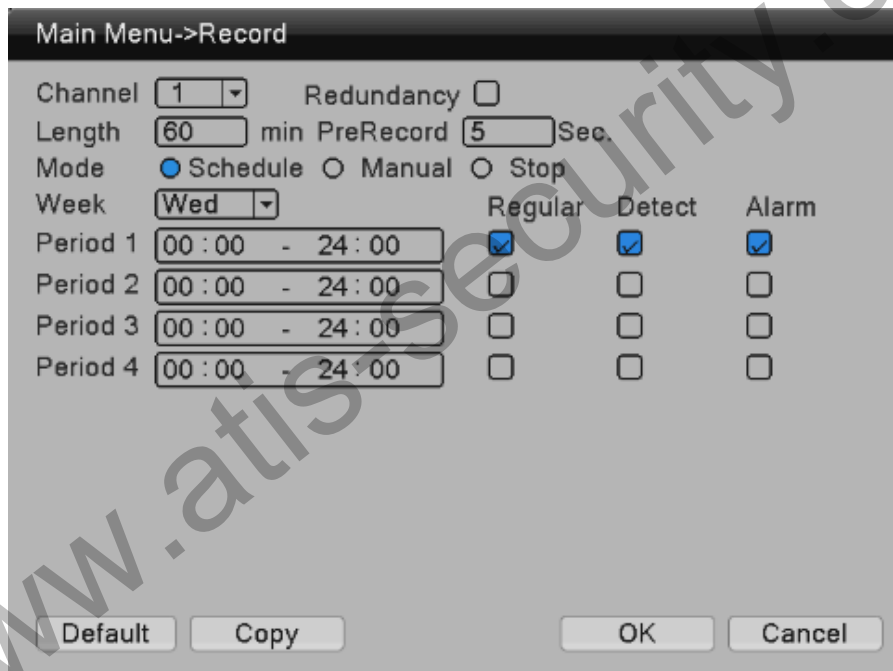
Quick operation

In preview interface, click  to add IPC, click  to configure IPC.

7. Recording Setting

Enter [Menu] → [record] → [record conf].

Note: at least one hard disk to set as read/write disk.



7.1 Select Channel

Two ways:

1. Click drop-down button, choose channel, if choose “all”, it will set all channel unified.
2. Put mouse cursor on channel number, scroll mouse wheel to find channel to set.

7.2 Redundancy

Redundancy function is to keep record file double backup. It needs two hard disk to record, one is used as read/write disk, the other is used as redundancy disk.

7.3 Length

Each record file time length is defaulted 60 minutes. (no alarm record produced)

7.4 Prerecord

Prerecording means detect /alarm record start at the pre-recorded time before alarm signal occurs.

7.5 record mode

Recording mode includes: manual, stop, schedule.

[manual] manual record all the time no matter what status the channel is

[stop] no record no matter what status the channel is.

[schedule] if choose this type, need to set record types and time periods.

Record type

[regular] record named as “R” . It records by regular type when no special situation occurs in the time you set.

[detect] record named as “M”. When one of the three signals triggered in the time period you set, which are “motion detect”, “video blind” and “video loss”, it will record by detect type.

[alarm] record named as “A”. When “alarm input” signal triggered in the time period you set, it will record by alarm type.

Time period

Record works in the time period you set.

Set the parameters on week and period. There are four time period which can be continuous or discontinuous or repeated. Three record types are behind each time period to choose.

Main Menu->Record

Channel Redundancy ☐

Length min PreRecord Sec.

Mode ☒ Schedule ☐ Manual ☐ Stop

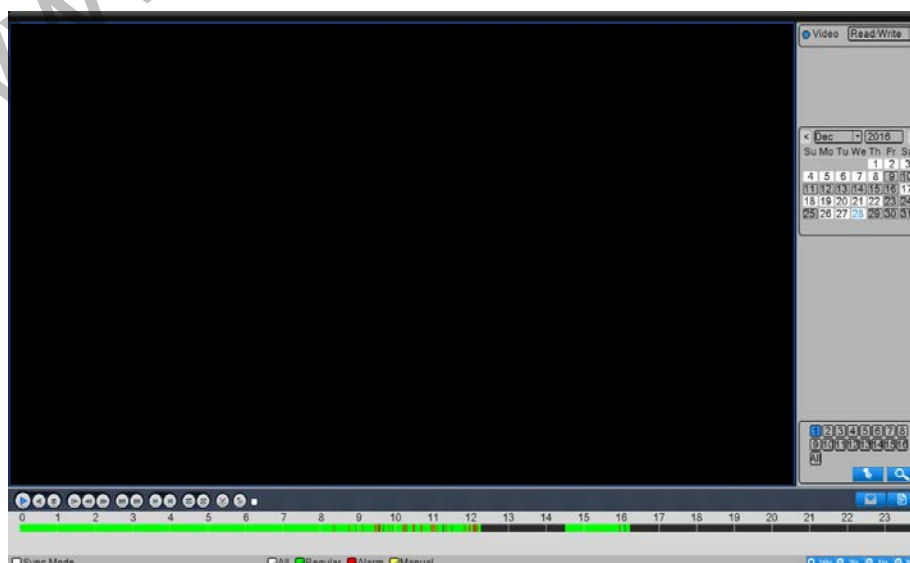
Week

Period	Time Range	Regular	Detect	Alarm
Period 1	00:00 - 03:00	☒	☐	☐
Period 2	03:00 - 09:00	☐	☒	☐
Period 3	09:00 - 12:00	☐	☐	☒
Period 4	00:00 - 24:00	☐	☒	☒

Buttons: Default Copy OK Cancel

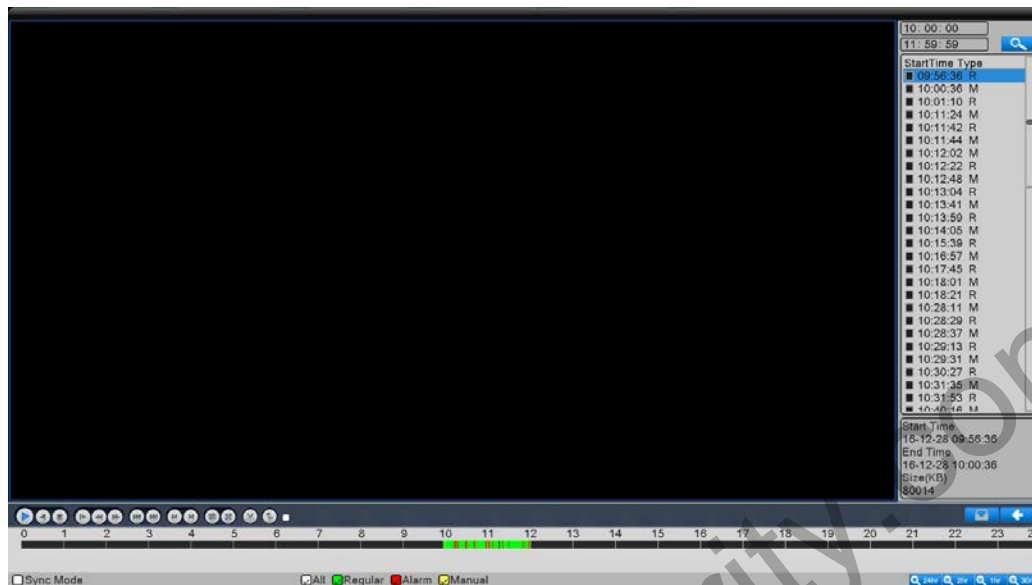
8. Record playback

Enter [main menu]->[record]->[playback]

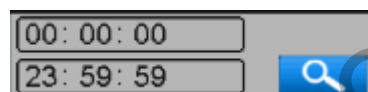


8.1 Record query

Choose time , click  to query, after that, click  to enter file list interface.



【time period query】



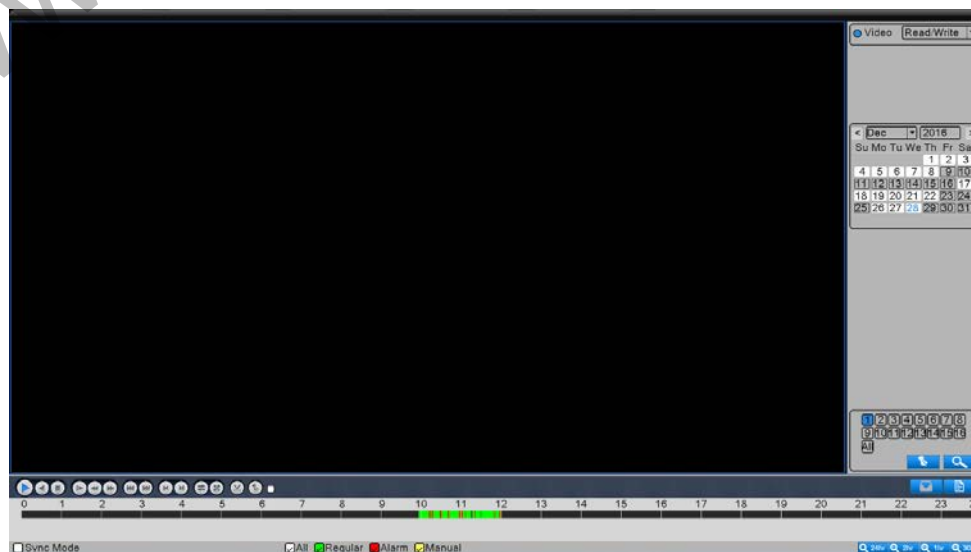
【recording mode query】



If there are record, it will appear in the list on the right of the interface.

8.2 Record play

Double click the file in the list which you want to play, or click “play” button.



full scream	Key function
	play
	recording playback
	stop playback
	slow play
	reverse fast
	fast play
	last profile
	next profile
	previous frame
	next frame
	loop control
	full scream

When playback record, you can take the above operation except “previous frame” and “next frame”.

When pause playback, the operation on “previous frame”or “next frame” works.

9 . Net work setting

enter [Main Menu]>[System]>[Network]

【IPaddress】 : Set the IP address. Default: 192.168.1.18;

【Subnet Mask】 : Set the subnet mask code default 255.255.255.0;

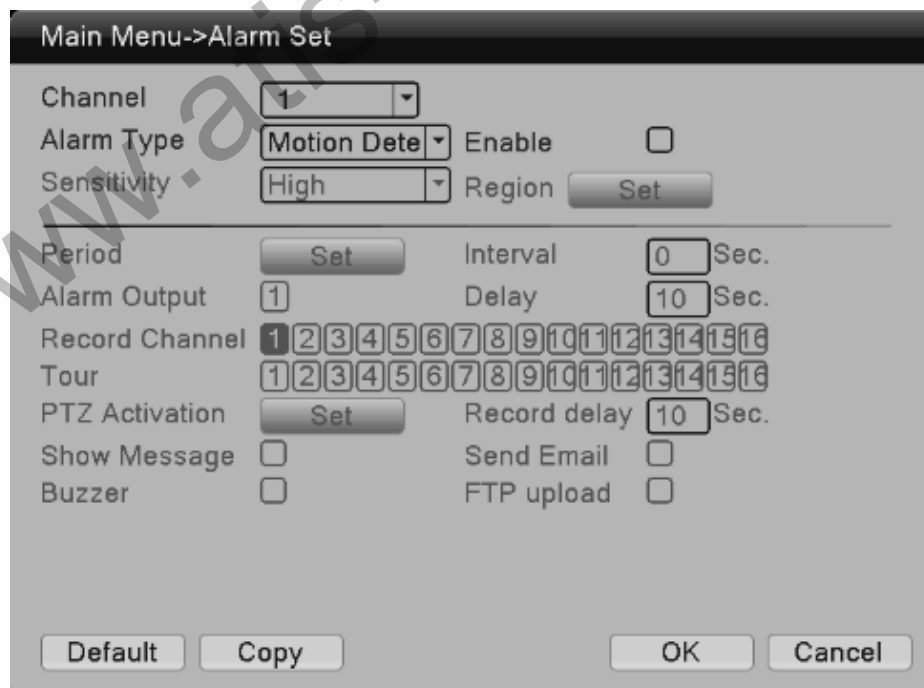
【default gateway】 : Set the default gateway default 192.168.1.1。



Make the equipment's IP address and the router in the same network segment. if the router IP address is 192.168.1.1, and the subnet mask is 255.255.255.0, It works by default network setting. generally the default gateway is the router IP address.

10. Motion detection Setting

Make sure IPC alarm enable before setting NVR alarm.



10.1 Alarm function

Choose channel, time period, and tick the enable box, enter OK, then alarm function works.

[interval] in the interval time, several times motion detect happens, only trigger one alarm signal. It also means it alarm only one time.

10.2 linkage setup

Linkage setup is to make reactions when alarm occurs.

10.2.1 Alarm output

when alarm occurs, the external alarm device react.

[delay] when alarm signal triggered, alarm output last for the delay time. Set the time you want.

10.2.2 Record

When alarm occurs, it will record by detect type.

Main Menu->Alarm Set

Channel: 1

Alarm Type: Motion Detect Enable: ☒

Sensitivity: High Region: Set

Period: Set Interval: 0 Sec.

Alarm Output: 1 Delay: 10 Sec.

Record Channel: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Tour: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

PTZ Activation: Set Record delay: 10 Sec.

Show Message: ☐ Send Email: ☐

Buzzer: ☐ FTP upload: ☐

Default Copy OK Cancel

[delay] when alarm signal triggered, the record last for the delay time. Range: 10 sec.-300 sec.

Note: linkage record working also need to set in “record conf” interface. Make sure alarm period is in the range of record period.

10.2.3 tour

When alarm signal triggered, it will tour channel by channel.

Main Menu->Alarm Set

Channel: 1
Alarm Type: Motion Detect
Sensitivity: High
Enable: ☒
Region: Set

Period: Set
Interval: 0 Sec.
Alarm Output: 1
Delay: 10 Sec.
Record Channel: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
Tour: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
PTZ Activation: Set
Record delay: 10 Sec.
Show Message: ☐
Send Email: ☐
Buzzer: ☐
FTP upload: ☐

Default Copy OK Cancel

10.2.4 PTZ

When alarm signal triggered, the PTZ react.

Main Menu->Alarm Set

Main Menu->Alarm Set->PTZ Activation

CAM 1	None	0	CAM 2	None	0
CAM 3	None	0	CAM 4	None	0
CAM 5	Preset	0	CAM 6	None	0
CAM 7	Tour	0	CAM 8	None	0
CAM 9	Pattern	0	CAM 10	None	0
CAM 11	None	0	CAM 12	None	0
CAM 13	None	0	CAM 14	None	0
CAM 15	None	0	CAM 16	None	0

Default Copy OK Cancel

Note: before linkage PTZ, set the parameter in “PTZ control” interface through right-click menu

10.2.5 Send EMAIL

When alarm signal triggered, sending email at the same time.

Note: enter [system]->[net service]->[email] to set parameter firstly.

10.2.6 Show Message

Alarm status prompt will be shown on screen when alarm triggered.

10.2.7 Buzzer

When alarm triggered, it will beep.

11. PTZ Control

PTZ function is determined by PTZ device. Right click->PTZ control



11.1 Basic Settings

[control direction] to turn in eight different directions

[speed] speed of PTZ turning

[zoom] adjust camera magnification by  

[focus] narrow camera focus by adjusting  

[iris] adjust camera iris by  

[PTZ trace] press mouse left key, PTZ turn quickly.

[set] set about PTZ function

[page switch] use PTZ function

11.2 PTZ function setting

Click [set] to enter “PTZ conf” interface.

Preset

Set certain position as preset point. Then when call the preset point value, PTZ will turn that position automatically.

1) preset setting

Step 1: turn PTZ to the position you want, click”set” to enter “PTZ conf”

Step2: click”preset”, input preset value

Step3: click “set”

Finally ,the preset value is correspond with the position you set.

2) Call preset

Step1: click “page switch” to enter “PTZ control”

Step2: input the value of preset point

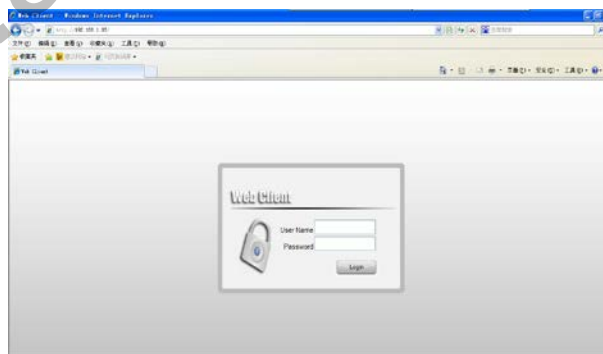
Step3: click “preset” button

Finally, PTZ will turn to the position you set.

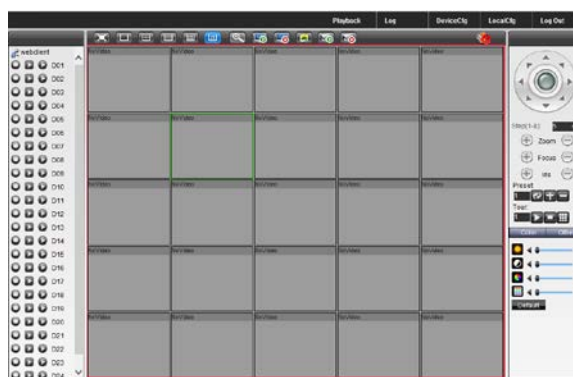
Part 2 Remote Control

1. WEB Remote View

After connecting network, open IE browser,input device IP address to enter into the device. For details please refer to the web client user manual.



Web log in interface



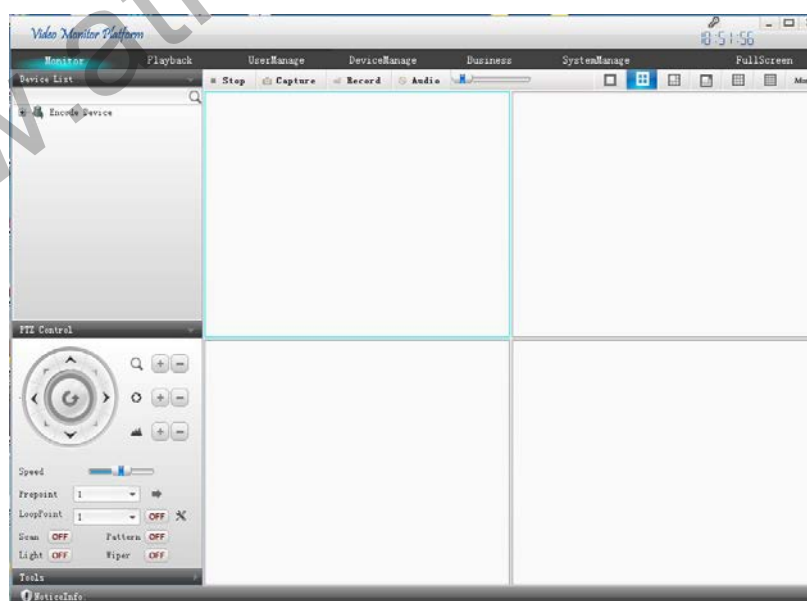
Web main interface

2. CMS3.0

CMS software is used in a computer, and manipulates several device at the same time.



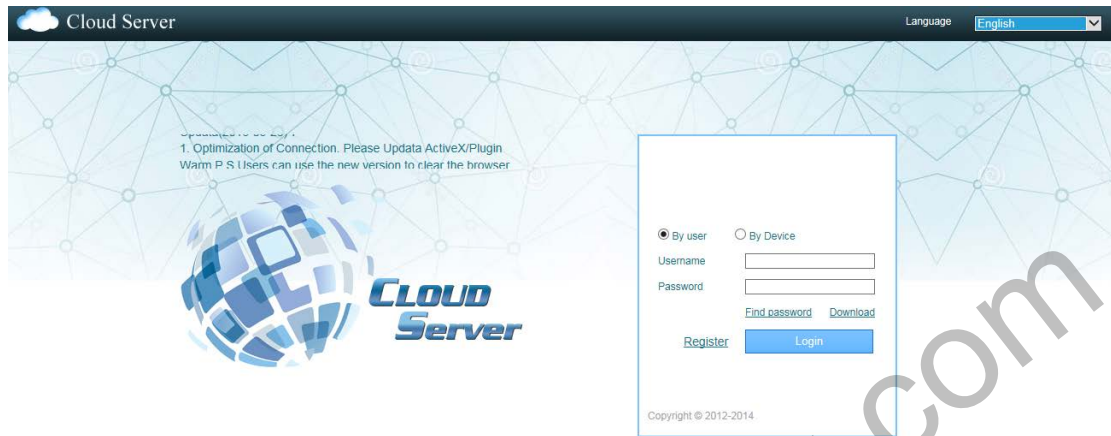
Log in Interface



Main Interface

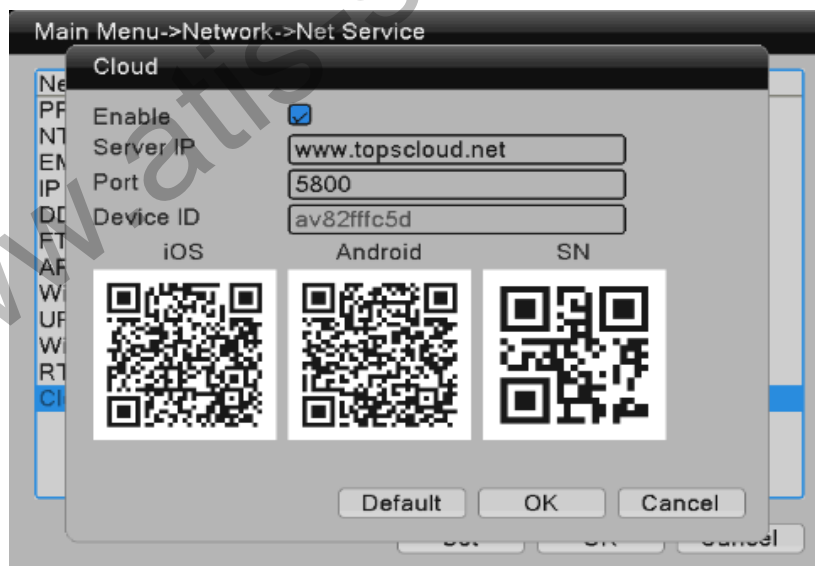
3. Cloud server

By Cloud server, no mapping port, only need device ID, then you can remotely access the device directly. For more details please refer to Cloud server user manual.



Log in interface

Note: enter into System->Network service->Cloud, check out Server IP and device ID. As below:

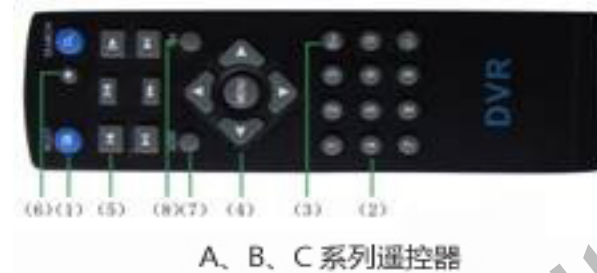


4. Mobile Phone Monitoring

Our device support mobile phone monitoring, like iPhone or Android system phone.

Note:Defaulted Mobile Monitoring service is enable. mobile phone client software is "RView",port is 5800.

Appendix 1. Remote controller operation



Serial number	Name	Function
1	Multi-channels button	Multi-channels preview
2	Number button	Password input/number input/channel switch
3	【Esc】	Back to up window
4	Direction button	Direction and OK button
5	Playback operate	Playback Basic operation
6	Record control	Enter into record menu
7	Remote controller	Input the number of DVR to control it
8	FN	Assistant function

Appendix 2. Mouse operation

*Take right hand as an example

Operation	Function
Double left click	Double click one item in the file list to playback the video
	Double click the playback video to zoom in or out the screen
	Double click the channel to make it full screen display in preview double click again back to the multi-channel display
Left click	Choose according option in the menu
Right click	Pop up desktop shortcut menu in preview interface
	Pop up shortcut menu when operating menu
Wheel button	Add or subtract number value in the number setting
	Switch the items in the combo box
	Page up or down in the list
Move mouse	Choose the widget or move the item in the widget
Drag mouse	Set the motion detect area
	Set the cover area

Thank you for reading, if you have any questions please contact us.