

AHD/TVI/CVI/CVBS/IP

USER MANUAL

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Chapter 1 Safety Use Instructions

Thanks for using our products, if you have any questions or requirement, please feel free to contact us

The manual is for 8ch AHD DVR.

There may be some inaccurate information in technique, functions, operations or printing in this manual.

We reserve the rights to make changes without further notice to a product or system described herein to improve reliability, function or design.

Important safety notice:

Do not expose this unit to rain, moisture and liquid.

Make sure good ventilation openings to avoid product overheating damage.

Make sure the DVR work on the allowable temperature and humidity.

The dust on the board may cause short-circuit problem, please clean the dust on the circuit board, connector, case, fan by banister brush regularly.

Changing the battery improperly may cause explosion, Please don't change it without professional guidance. If battery needs to be changed, please use the same type or equivalent type battery.

Chapter 2 Product Introduction

2.1 Product Features:

- P/N self-adaption, no need to setup, Recognize input AHD 1080P/720P/CVBS automatically. P2P TUTK server makes it more stable.
- With UTC function, 3X AF and zoom lens and OSD parameter can be adjusted by DVR
- OSD is available in 6 languages, Free to reboot after changing languages, resolution changing only needs 4 seconds; You can move windows around the display screen and zoom image;
- One-step to remote monitoring via P2P/APP, easy and simple to operate, Support RS-485 and backup AVI format. Boot with guide, more intelligent.
- With VGA and HDMI (1920*1080) Output, 4ch audio input; 1ch audio output; with 4A power surge protector and 2KV video lightning protection.

2.2 Product Specification

Each channel supports dual-stream compression, the maximum resolution for main stream is Full HD (1920*1080). The sub-stream is up to D1.

The parameters of video coding for each channel can be adjusted independently, including resolution, frame rate, bitrates, image quality and so on.

Each channel supports two compression parameters: Normal compression and event compression, and also support local sub-stream compression parameter.

Support composite stream, video stream, Audio and video synchronized when it's composite stream.

Output can be up to 1080P

Output HDMI, VGA

The resolution of output HDMI and VGA can be up to 1920x1080

Support 1/4/6/8/9ch preview screen. The sequence of preview channel can be adjusted.

Preview supports grouping switching, manual switching, cruise(cycle period can be set)

Preview channel can be assigned.

Support privacy preservation

Support motion detection, video loss detection

Compress Format

H.264 is used, with lower compression rate and better image quality

Storage

Max. 2 SATA hard disk

Backup

You can backup via USB, remote backup via network, or editing the backup when it's playback.

Video/Screenshot and playback

Support recurrent writing and non-recurrent writing

Support timing and event compression parameters.

Trigger mode: Manual, timing, alarm, motion detection.

Digital zoom to any arbitrary area when it's playback.

Record can play reversely.

Can search and playback by channel No., type, event and so on.

Support HD 1080P, SD D1 real-time record.

The backup files can be playback locally.

Alarm and Exception management

Support time set for the defense of alarm in/out.

Support video loss alarm, motion detection, privacy protection alarm, illegal log-in alarm, network off alarm, IP collision alert, Hard disk error or hard disk running full alarm.

When the alarm is triggered, picture, sound, alarm out and preview hint will be pop-up. Besides, the motion detection and switching value can trigger record/capture of any channel, All the exception issue can trigger the sound alarm, sending email and alarm triggered output

Support active PTZ setting, the corresponding channel auto cruise and tract.

Other local functions

You can operate through front panel, mouse, remote-controller and special keyboard.

Three level user management, Administrator can setup several username and set permission, which can be refined to the channel

Complete information and index regarding operation, alarm, exception and log record.

Trigger and clear alarm manually.

Import and export the device's configuration information.

Network function

Support TCP/IP、DHCP、PPPoE、NTP and DDNS

Preview via IE browser remotely

Obtain and configure the parameters, import and output device's parameters remotely.

Obtain devices running status, system log and alarm condition remotely.

Support system maintenance remote operation, such as: Formatting the harddisk, upgrading the software upgrading and reboot.

Support RS-485

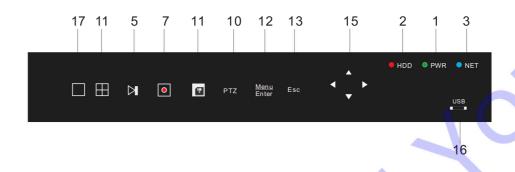
Support PTZ remote control

Support remote monitoring via mobile app, such as Windows Mobile Symbian IOS Blackberry Android

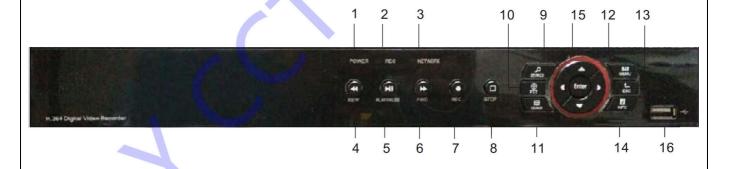
Several devices can be managed by CMS management via internet.

Chapter 3 Product picture and Interface definition

3.1 Front Panel







N	ο.	Item	Description
1	1	Power LED	LED ON when power ON
1	2	REC LED	LED ON when recording
	3	Network LED	LED ON when connect with LAN
4	4	REW	Rewind record view in playback mode
	5	PLAY/PAUSE	Access to playback interface in playback mode
	6	FWD	Fast forward record view in playback mode
	7	REC	Access to manual record interface

8	STOP	Click to stop recording
9	SEARCH	Access to search interface
10	PTZ	Access to PTZ control interface
11	QUAD	Live view in quad mode
12	MENU	Accesses to main menu interface
13	ESC	Exit and back to previous menu
14	INFO	Access to device info. interface
15	DIRECTION	Use up/down/left/right to move the highlight of OSD
16	USB Port	USB port for additional devices
17	Full Screen Display	Live view in full screen mode

3.2 Rear Panel



No.	Item	Description
1	Video In	BNC interface for Analog video input
2	Audio In	RCA connector
3	Video Out	Spot monitor
4	Audio Out	RCA connector

5	номі	HDMI video output connector	
6	VGA DB15 connector for VGA output. Display local video output and menu.		
7	Network Interface	Connector for network	
8	USB Port	USB port for additional devices	
9	Alarm In	Connectors for alarm input	
10	Alarm Out	Connectors for alarm input	
11	Power supply DC12V power supply		
12	2 Power Switch Switch for turning on/off the device		
13	RS-485 interface	Connector for RS-485 device	

Chapter 4 Operating Instructions

4.1 Mouse operation instruction

Name	Action	Description
	Single-Click	Live view: Select channel and show the quick set menu. Menu: Select and enter.
	Double-Click	Live view: switch between single-screen and multi-screen.
Left-Click	Click and Drag	PTZ control: Wheeling Privacy mask and motion detection: Select target area. Digital zoom-in: Drag and select target area. Live view: Drag channel/time bar.
	Single-Click	Live view: Show menu. Menu: Exit current menu to upper level menu
Right-Click	Scrolling up	Live view: Previous screen Menu: Previous item.
Scroll-Wheel	Scrolling down	Live view: Next screen Menu: Next item.

Notice: If the mouse can't be detected after plug in, that means the mouse and DVR is not compatible.

Then please try to change the mouse.

4.2 Input operation instruction

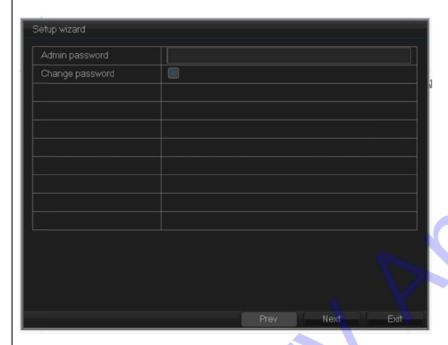


Icon	Description
Shift	Capital letter and small letter switching
Ctrl	Shift between various input ways
Pu	Page Up
Pd	Page Down

4.3 Guide

After start, wizard page will be pop-up.

Wizard 1: Enter password and click "Next" (Default password for admin is null)



Wizard 2: P2P default is open; The UID is showed, set the network state. You can add the device's UID manually or scan the UID, or download the APP.



Wizard 3:

DVR Name: Showed device name

DVR ID number: Device ID is needed when remote control.

Language: Showed language, 6 language optional

Set time & date: If you need to setup the time, click "setup"

Settings

Date format: 6 format to be chosen according to different regions

Time format: 24 hrs or 12 hrs

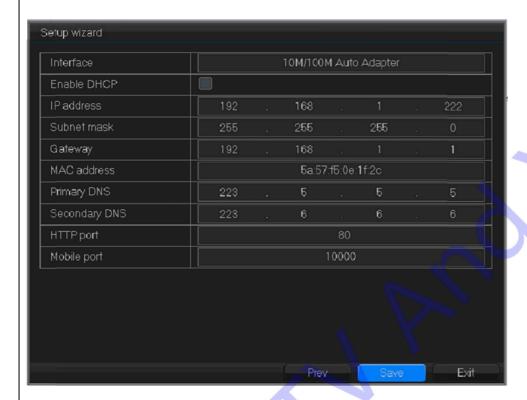
Time Zone: Choose the corresponding time zone according to the regions

Setup wizard: If setup wizard is needed or not, when the DVR starts



Wizard 4:

Network setting, you can check the network IP and network port. Notice: Some operations may need HTTP port and mobile port, you can check it here.



Click Save.

Chapter 5 Menu Description

5.1 Toolbar description

After the guide is finished, Right-click anywhere, the following menu will be showing



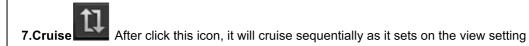
1.Main Menu



(Click the icon to enter the corresponding sub-menu)



- 2. Single screen After click it, it will turn to single screen.
- 3. 4 split screen After click it, it will turn to four split screen; click it again, it will turn to next four channel
- 4. 6 split screen After click it, it will turn to 6 split screen; click it again, it will turn to next 6 channel
- 5. 8 split screen After click it, it will turn to 8 split screen.
- **6. 9 split screen** After click it, it will turn to 9 split screen.

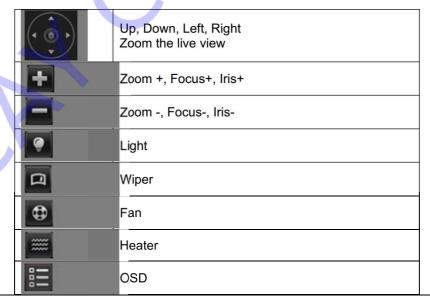


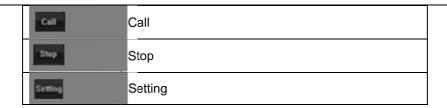
8. Digital Zoom After click, you can make it 4 times zoom, you can drag the coordinate on the bottom right corner to show the zoom area.

9.P.T.Z: Description: You can operate via "PTZ"

Click the icon on the toolbar, the UI will be pop-up, Click to show the advanced setting section, see the following picture:







Call of Preset point

Click the icon on the toolbar, "PTZ Control" will be showing, Choose the Number of preset point, and click "Call", it will be back to the preset point.

Call of Cruise

Click the icon on the toolbar, "PTZ Control" will be showing, Choose the Number of cruise, and click "Call", it will be back to the cruise

Click "Stop", cruise will stop.

Call of Track

Click the icon on the toolbar, "PTZ Control" will be showing, Choose the Number of track, and click "Call", it will be back to the track

Click "Stop", Track will stop.





You can adjust the camera's parameter and also control motorized lens.

After click the icon, the following picture will be showed, click the middle "OSD" button



You can adjust the camera's parameter via DVR'S UTC function



11.System status



Notice: You can check the signal loss, motion detection, alarm input, alarm output and system status at this page. Enter toolbar-main menu-alarm setting-alarm output to setup the delay of alarm make the alarm open until you click "clear alarm" to clear it.

The icon on the toolbar:



means no alarm,



mean alarm on

Click the icon on the toolbar, system status will pop-up, you can check information regarding the signal loss, motion detection, alarm input, system status

If you want to clear alarm, you need to click 【clear alarm】

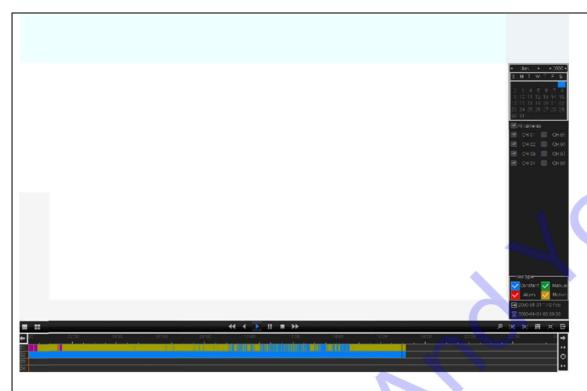
12.Snapshot



After you choose the channel, and click this icon, the snapshot will be seen on the Data Retrieval

13.Playback





- 1. Choose the playback channel, single and multi-channel playback supported.
- 2. Choose the playback date, the whole day's video will be shown on the time axis.
- 3. Click"play" to play the chosen channel.



Different colors show different types of record.

Blue—Constant video, Green—Manual video, Red-Alarm, Yellow—Motion video.

14. Backup

User name and password will be needed.

After you log-in, backup device will be checked automatically, you can also click to detect manually.

检测

Click to choose the time of backup

File type supports H.264AVI,H.264Raw

Choose all channels or part of channels to backup according to your request.





15. Shutdown system





5.2 System setting

(Click this icon to enter sub-menu.)

Sub menu	
Basic	Device's parameter, Date and Time, Daylight saving time
Preview	Basic and view setting
User	User management
Network	Basic setting, PPOE,DDNS,EMAIL,IP blacklist, uPnP,P2P
System alarm	System alarm setting

Setup:

DVR Name: Click to set the DVR name

Device ID number: Change the camera ID

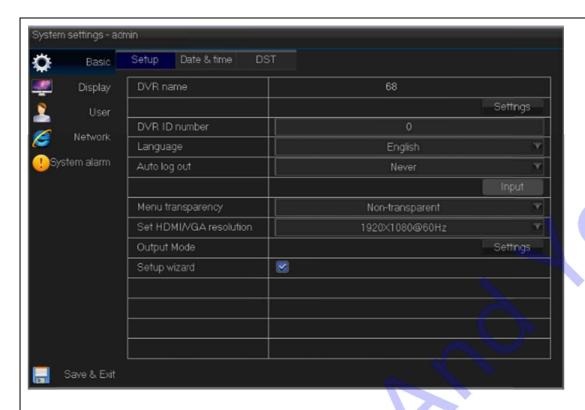
Language: System language switching

Auto Logout: Set the auto logout time, custom support

Menu Transparency: Adjust the mean transparency

Resolution: Adjust the resolution of HDMI and VGA(Maximum 1920*1080)

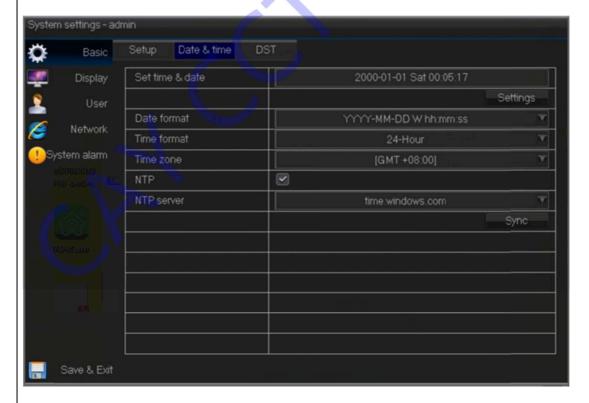
Output mode: Various output modes are optional, customs support.



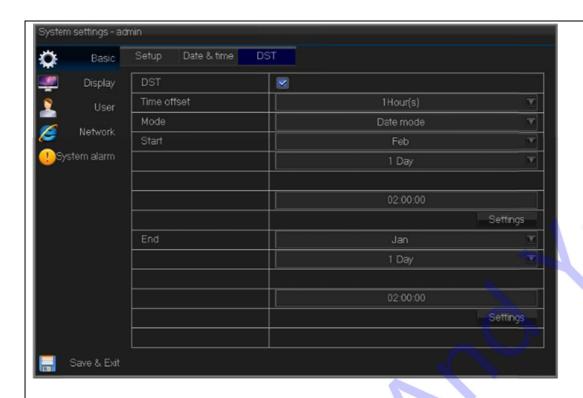
Date & Time:

Click this icon to set Date & Time manually or Click "Network time synchronization"

Note: If network time synchronization is failure, pls change the network time of server and restart.:



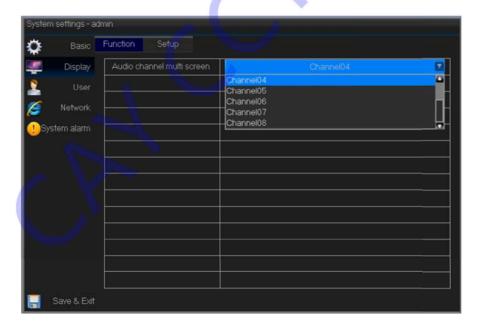
DST(Daylight Saving Time): After DST is chosen, you can set



Preview setting

Basic:

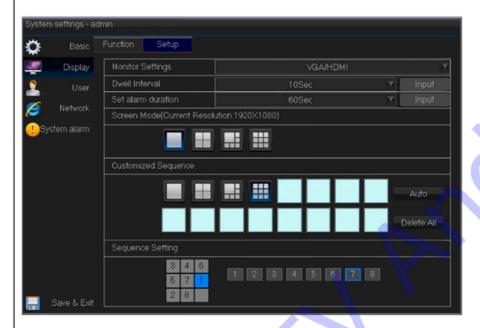
Audio preview: Choose , Audio preview will be back to this channel, so you can preview the chosen audio



Display setup: Set up dwell interval. Users can customize each screen's display.

Customized sequence: Left-click the blank box, and choose the screen mode mode will be added to the customized sequence. Click "Auto", the screen mode will be used automatically. Click "Delete All", All the customized sequence will be deleted.

Sequence Setting: Choose the screen in customized sequence, and click 1-8 channel on the right side to sequence randomly



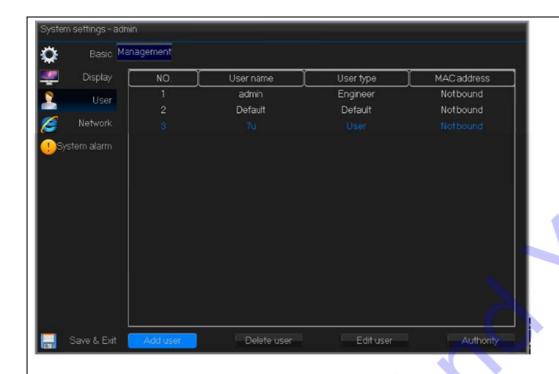
User Management:

Administrator can add user, delete user, edit user and set the authority.

Notice: Common user can only edit their own password

Click 【Add user】 to add user, Enter username and password; If Mac address is bounded, you need to enter the MAC address.

Notice: After the MAC address is bounded, you can only log-in the user remotely on the PC with this MAC address.

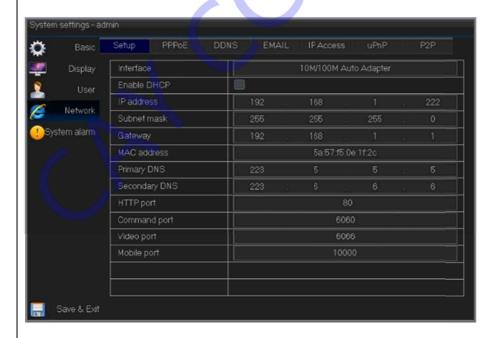


Network:

Basic setup:

Setup device's parameters, such as: IP address, Gateway, Port, DNS and so on. After setup, Click Save & Exit it will be valid immediately.

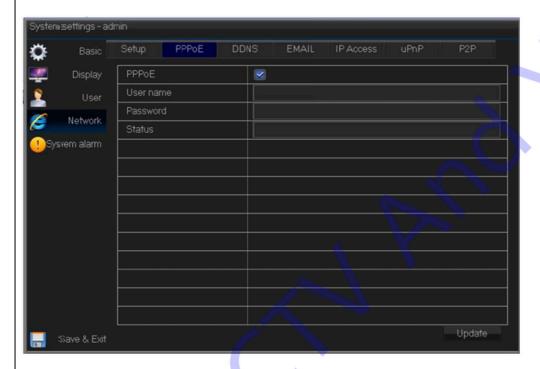
Notice: If there's DHCP server, pls choose "obtain IP automatically", then it will be valid immediately.



PPPOE:

When you connect via ADSL, User can dial via PPPoE, Choose to use PPPoE, enter username and password, Click [Update], and then click [Save & Exit], and finish the setting. Check the following picture

Notice: Pls get the user name and password of PPPoE from service provider, and finish the setup. After restart, the device will dial the network automatically. After dialing, the network information will be shown on network status.



DDNS:

First: Basic: Setup device's parameters, such as: IP address, Gateway, Port, DNS and so on. After setup, Click [Save & Exit] it will be valid immediately.

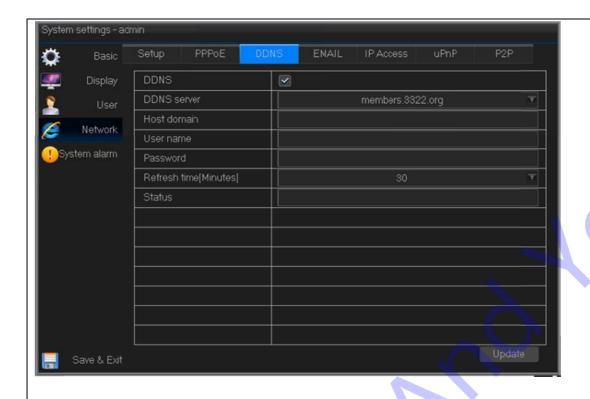
Second: Setup DDNS, check DDNS.

If DDNS is chosen, the server IP is: menmbers.dyndns.org

Host domain: Users can apply host domain by themselves(go to websit of dyndns to apply), Username and password is the one you registered on the website of dyndns, After finishing, Click 【Save & Exit】, as following picture:

Third: Click 【Update】, it's registering, the status will be shown as the pictures, after finish register, the status will be "register successfully" If failure, the status will be "register failure"

Notice: When register is failure, check the DDNS to see if the setup is correct or not, and then check the network to see if Ethernet and DNS is chosen or not.



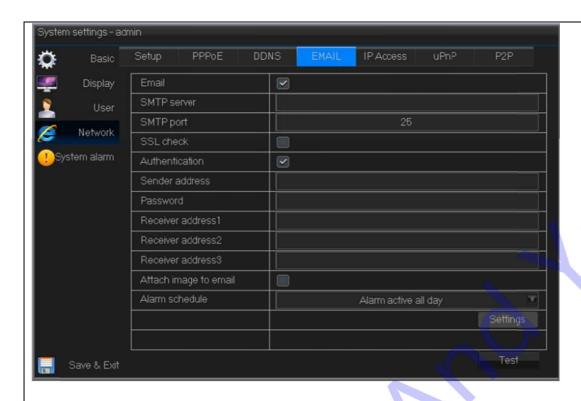
EMAIL:

When email is checked, alarm will be sent via email, you can set the information, such as: SMTP server, SMTP sender, SMTP receiver's email and so on. If snapshot is reported via email, Authentication needs to be chosen.

Notice: You can set SMTP port (Pls confirm SMTP server port), Pls check "SSL check" according to your email, (Some SMTP server may need it)

Test: Click Test to check the email.

If it email test is failure, pls check email's setup and also the Ethernet's connection and DNS server's setup.



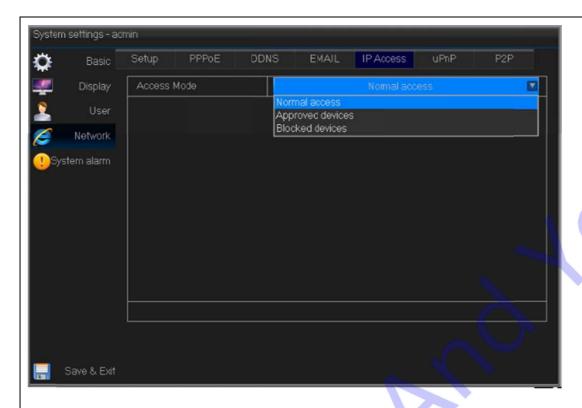
IP Access:

Access Mode: Normal Access, Approved devices, Blocked devices.

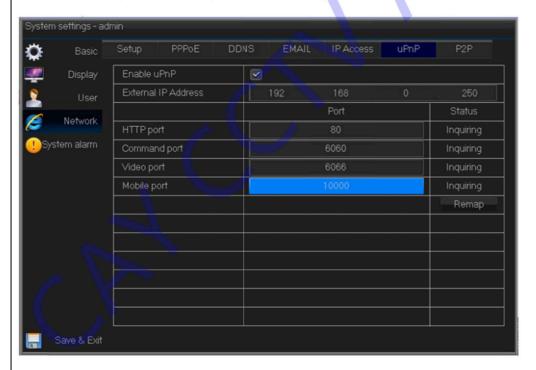
Normal access: No restriction in the LAN

Approved devices: Only IP in the approved list can access in the LAN.

Blocked devices: IP in the blocked list can't access.



UPnP: After setup, UPnP can map to Ethernet directly.



P2P:

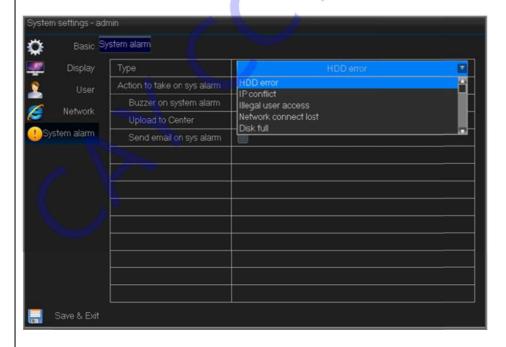
The default P2P is chosen, The UID and UID 2D barcode is correspondently matched. Setup network status. You can get UID manually or scan to get UID when remote login. Or you can also scan to download app when you use mobile to control remotely.



System Alarm:

System alarm is the alarm for some exception. The exception includes Disk full, HDD error(Error writing, not Initialization), Network connect lost(doesn't connect network), IP Conflict, Illegal user access,(error password) etc.

Enter <System settings>—<Main menu>—<System alarm> to set up alarm parameter of each channel.

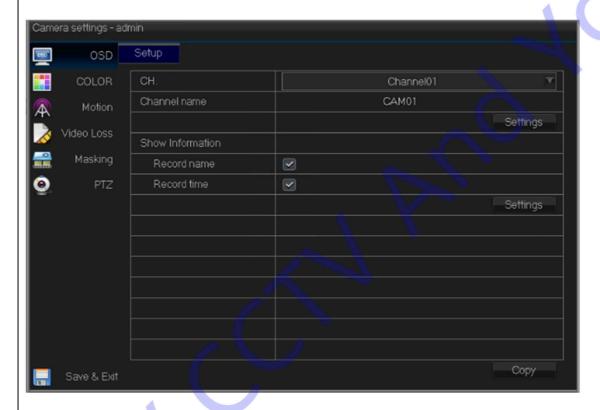




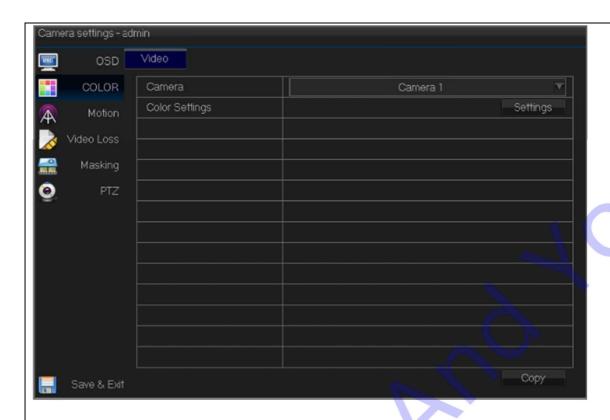
5.3 Camera Settings

OSD

You can set up each channel's name, The position of showing name and time can be adjusted by your own request. Click Settings, After finishing, pls click



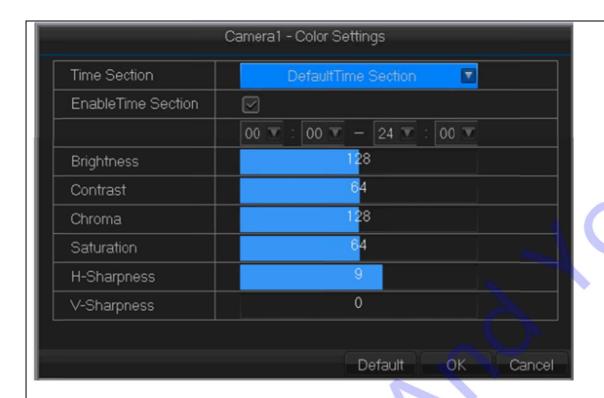
Color setting: Adjust the camera's brightness, contrast, etc.



Choose [color settings]

You can adjust the color parameter (including brightness, contrast, chrome, saturation, H-Sharpness, V-sharpness) of time section according to the site conditions. After finish, click [OK]

Click Default to return to factory default.



Motion Detection:

- 1. Choose the channel which need to start motion detection.
- 2. Choose sensitivity. (Low/Middle/High sensitivity)
- 3. Choose Protection Time. (Protection whole day/ The custom time)
- 4. Choose the linkage option when the motion detection channel being triggered.

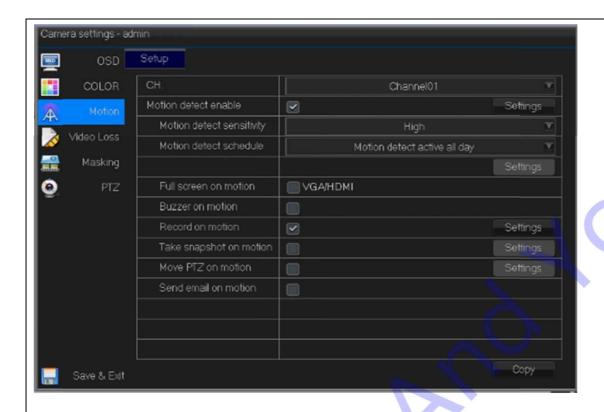
Big picture alarming---- Preview page of DVR pop up alarming image.

Trigger channel recording---- Select the channel which need to be triggered recording.

Trigger screenshot---- Select the channel which need to screenshot.

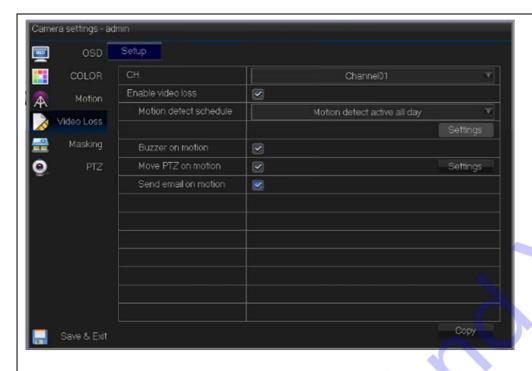
Trigger PTZ---- Can trigger the preset position/cruise/locus of fast ball in the equipment.

Send email---- Can trigger the Email option of Network Setting to alarm. (Set Email and send to System Configuration--Network Setting-- EMAIL)



Video Loss:

- 1. Choose the channel which alarming for video loss, check and deal with video loss, take some relative settings to this channel.
- 2. Have linkage voice to alarm, trigger PTZ and send email functions.
- ----Protection time---- Support Protection Whole Day and The Custom Time.
- ----Trigger PTZ--- Can trigger the preset position/cruise/locus of fast ball in the equipment after the Video Loss.



Video Masking:

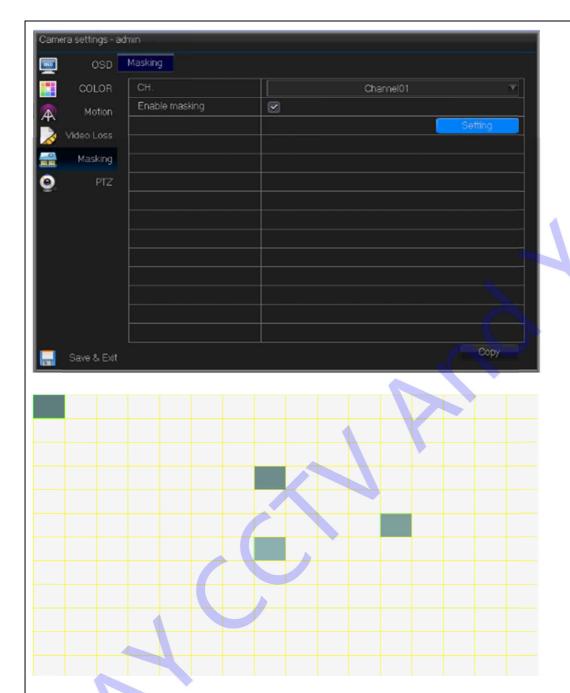
Cover some sensitive or related to privacy areas from surveillance lives images.

Select the channel to set, check starting video cover.

- 1. Select channel and check starting video masking.
- 2. Click 【Set Masking Area】 button, and enter into preview setting interface, click or move the designed masking area; if you want to cancel the designated masking area, just re-select the area is okay. After finishing the setting, click right-key and return back to video masking interface.

If other channels need to be changed, you can repeat the above steps; if has same setting, click Copy button, which will be copied to other channels.

Note: 4 masking areas can be set in each channel at most.

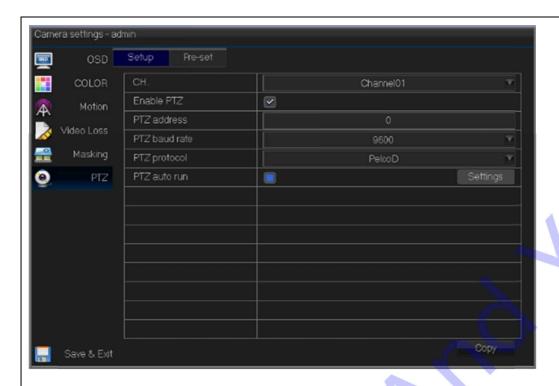


PTZ setting:

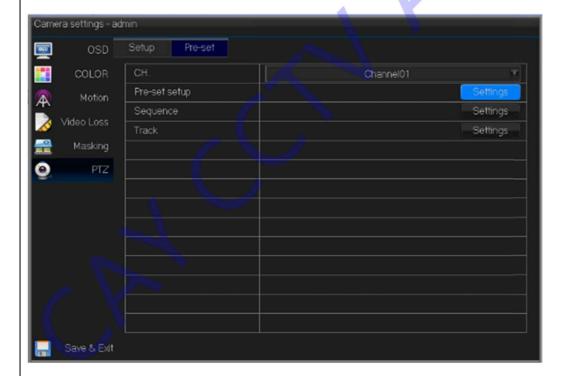
Basic configuration: can adjust PTZ protocol and address.

- 1. Choose the channel which will start the PTZ operation, check the Start PTZ operation, the interface is as below;
- 2. Input the PTZ address into its text-box, choose PTZ Baud rate and protocol.

Note: PTZ address should be same with PTZ dial-up, baud rate protocol and PTZ parameter should be the same.



More configuration: you can set preset positions, sequence and track.



Tick PTZ Auto Run, click the 【Set】 button which is at the right side of PTZ Auto Run, the interface is as below:

Choose the Cycle, you can only tick one to set from preset positions, cruise and track; once finished, click 【Preview】 button to enter into preview interface, right-key to return back to <Channel Configuration> interface; click【Ensure】button to return back to <Basic Configuration>, succeed.

Note: PTZ Auto Run only can use one of preset positions, cruise and track. (Linkage state mutually exclusive setting)

If other channels need to be changed, repeat the above steps; if has same setting, click 【Copy】 button, which will be copied to other channels.

Setting of preset positions:

Click right side 【Setting】 button to enter into <PTZ Control> interface, and select the channel and preset positions number, click 【Setting】 button to enter into <Setting> interface, use PTZ control-key to adjust orientation, click 【Ensure】 button to return back to <PTZ Control> interface, succeed.

If you want to set more preset positions, repeat the above operations.



Setting of Sequence:

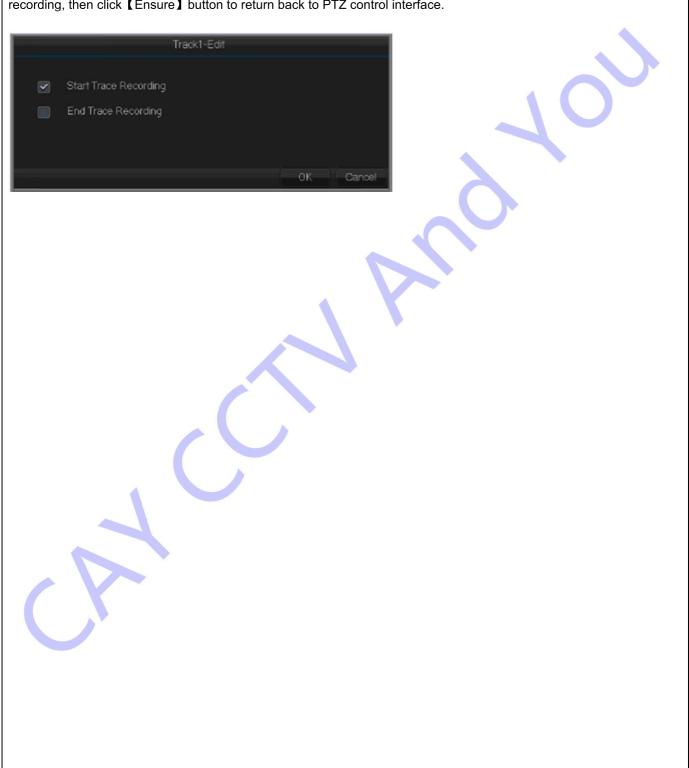
Select the channel and sequence number to set, click right side [Setting] button to enter into <Edit> interface of this number sequence.



Setting of Track:

Track is being used to record the traveling routine of PTZ, choose the setting channel, click the right side 【Setting】 button and tick to start track recording, click 【Ensure】 button to return back to <PTZ control> interface and make all kinds of control operations to PTZ, for example: make up, down, left, right orientation controls and etc.

Setting finished, click 【Setting】 button of right side of Locus to enter into <Track Edit> interface, tick to end the track recording, then click 【Ensure】 button to return back to PTZ control interface.



5.4 Video Configuration



Coding Parameters:

Main stream: Select channel

Stream type: Integrated flow (with audio), video stream.

Resolution: 1080P

Frame rate: 1080P is defaulted 15fps, others can be up to 25/30fps maximum.

Bit rate type: Constant stream, VBR.

Bit rate: Maximum support 5415kbs



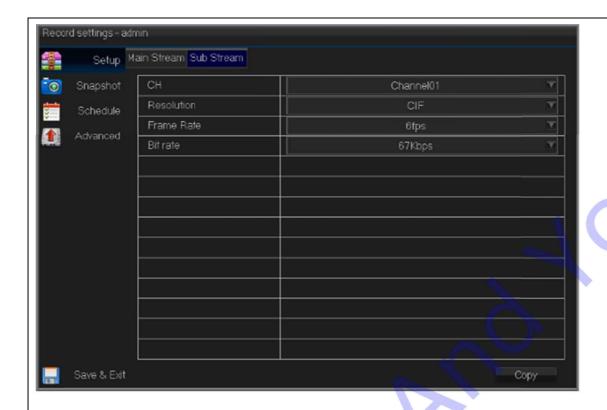
Sub-stream:

Channel.

Resolution: Default stream is CIF

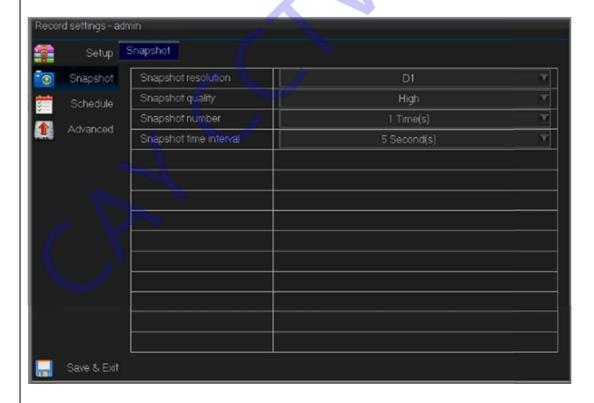
Frame rate: Maximum support 25/30fps

Code rate: Maximum is up to 507kbs



Screenshot parameters:

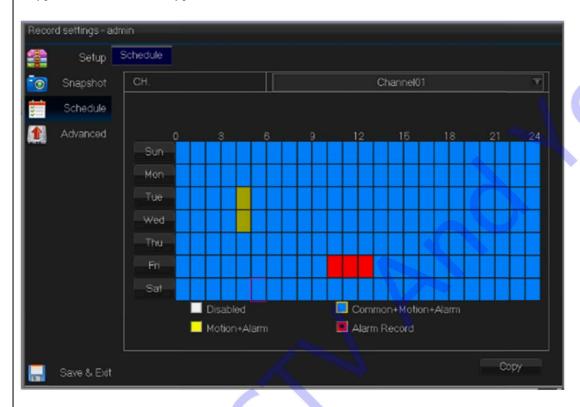
Can set Screenshot Parameters(the screenshot button be used for toolbar and playback page)



Video Schedule:

Can set various video schedule of channels. Support timing video, mobile video, alarming video.

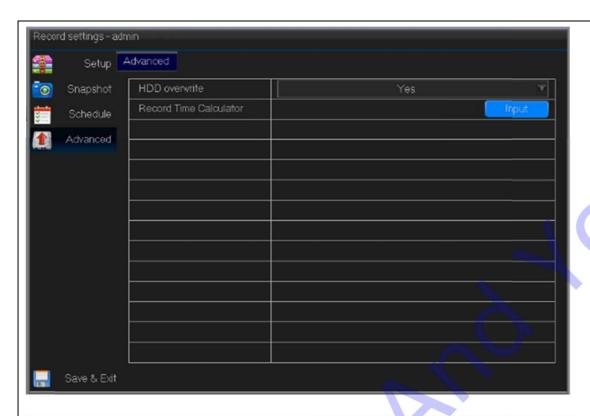
Copy button can make copy to other channels.

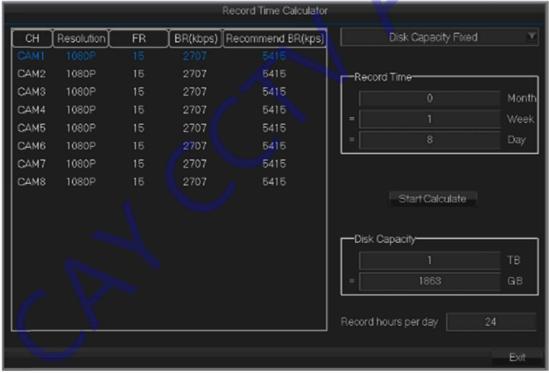


Advanced configuration:

Recurrent writing: Whether the hard disk is in recurrent writing.

Video computer: Click the input button to calculate the recording time.







5.5 Disk management

(click to enter into the matched sub-menu)

Basic configuration	Check all hard disks of DVR, which you can format.	
Advanced configuration	configuration S.M.A.R.T detection can check the disk condition.	

Basic confirguration:

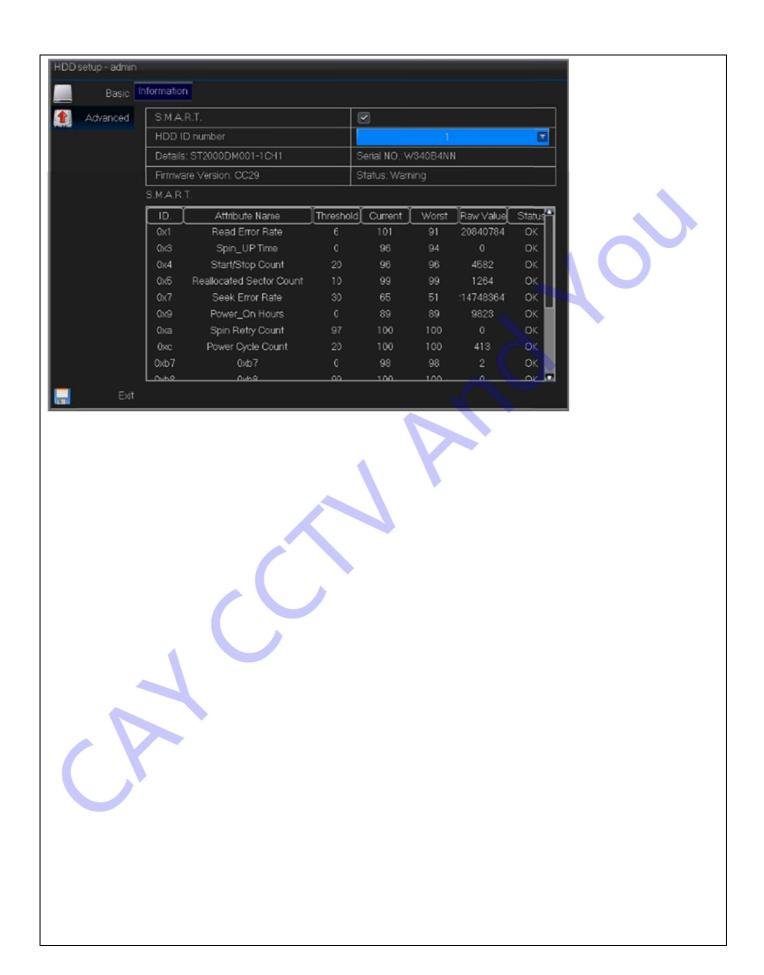
Reveal all hard disks on the DVR.

click this button to format hard disk.



Advanced configuration:

After S.M.A.R.T detection, you can check the condition of hard disk.



5.6 Data Retrieval



(click to enter into the matched sub-menu)

Local image	Retrieve DVR local screenshot
External file	Retrieve USB files

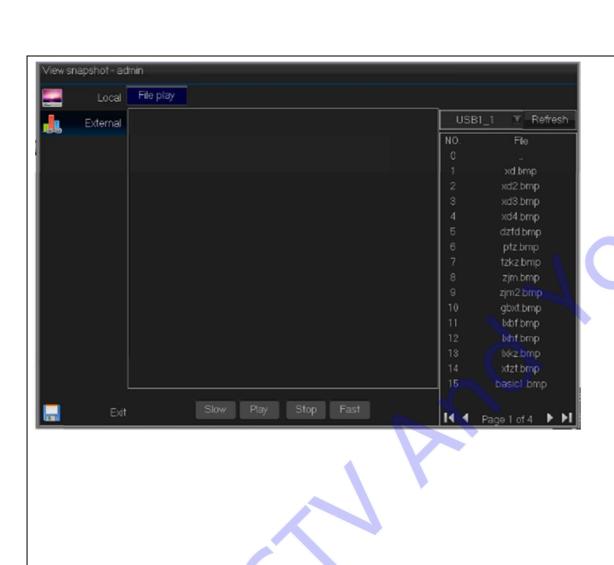
Local image:

Can check the images inside of the equipment.(Click the pictures captured by main page screenshot button or playback screenshot button)



External file:

Can read the file inside of USB and play the pictures and videos from the USB equipment.



5.7 System Maintenance



(click to enter into the matched sub-menu)

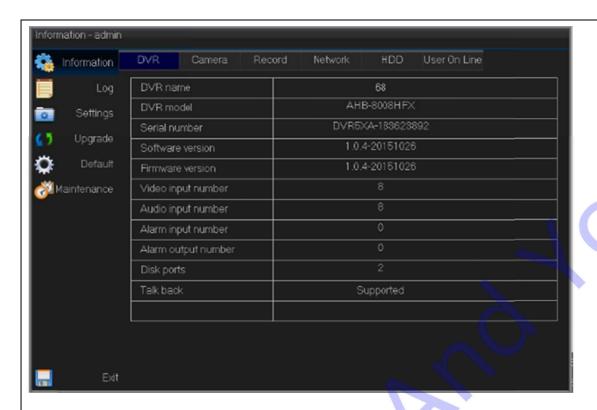
Description of sub-menu:

System information	Reveal equipment's system information	
Log information	Check equipment's log information	
Configuration management	Backup/ recover setting of equipment	
Version upgrade	Equipment software upgrade	
Default configuration	Equipment recover default setting	
Automatic maintenance	Equipment maintain functions automatically	7

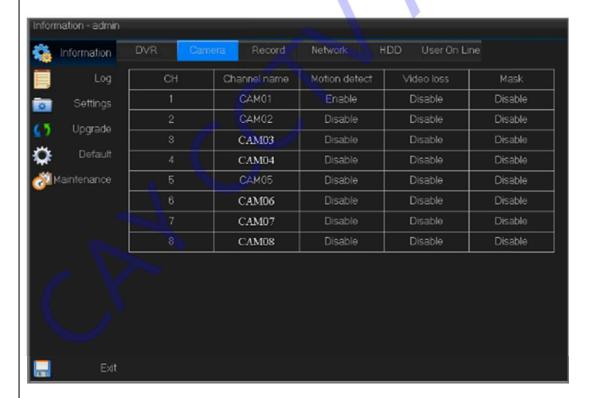
System information:

Reveal present system condition and information of DVR.

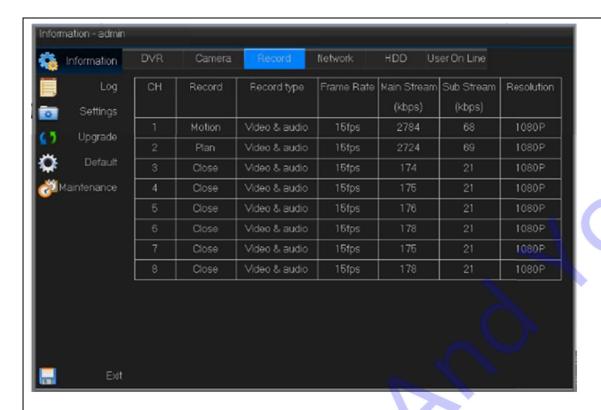
Basic information: Reveal equipment name, model NO and version.



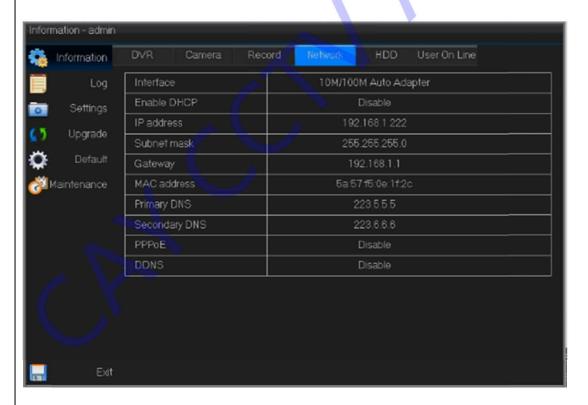
Channel condition: Reveal the present conditions of all channels.



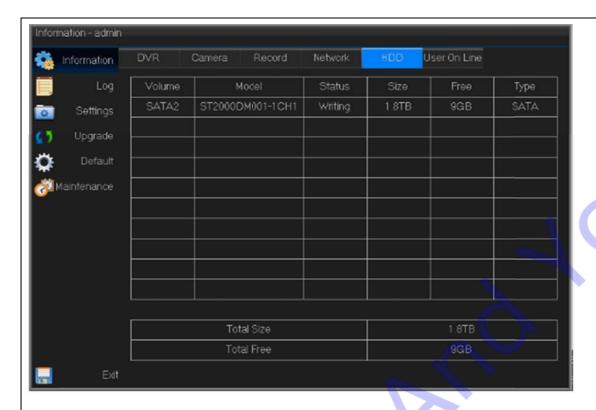
Video state: Reveal the present video states of all channels.



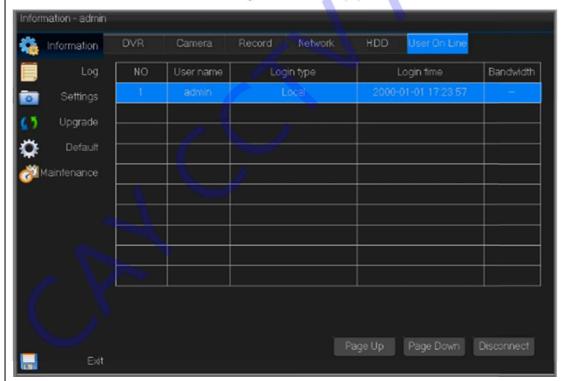
Network condition: Reveal the network information of DVR, which involves DHCP condition and MAC address.



Disk status: Reveal all present disks installed on DVR and display the status.



Online user: Can reveal the current log in users of equipment, also can reveal the IE and VMS log in users.

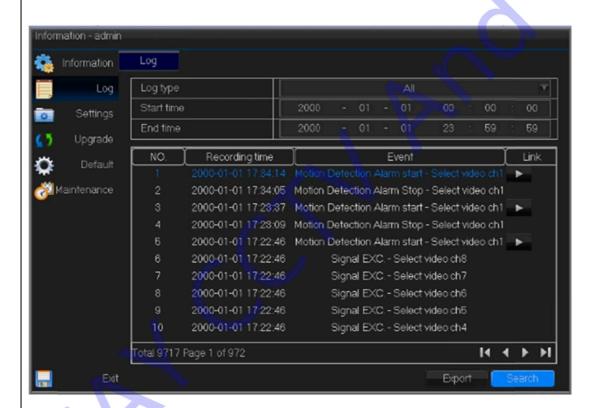


Log information:

Can check operation, alarming and error messages of equipment.

- 1. Choose log type. (the default is all)
- 2. Choose start time and end time.
- 3. Click Query Button to inquire the log information.
- 4. If need backup, you can insert USB flash disk and click Export button, after recognized the USB flash disk, click Backup will be okay.

Note: It has easy operation here: The hint of motion detection alarm log, click the play button and can playback the motion detection recording of this time directly.

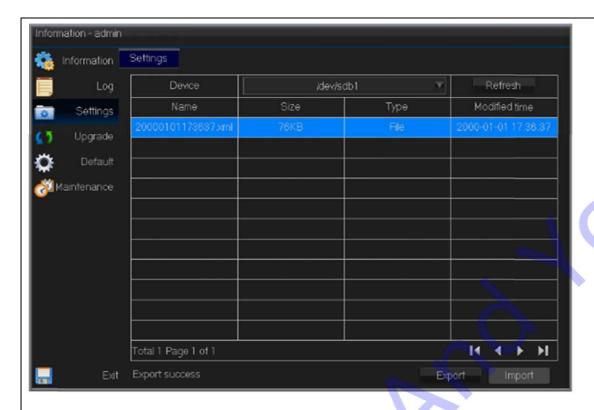


Configuration management:

Can backup current device settings and recover setting backups of former device.

- 1. Insert USB flash disk and click export button, then you can export all current settings from DVR to USB flash disk.
- 2. Insert USB flash disk and pick on exported files, click import button and import the former exported setting data, the device will prompt to reboot after importing. DVR setting will be recovered as the imported setting data after restarted.

Note: USB flash disk need to be recognized, it should have backups before if you want to import. Please don't import or export between different devices.



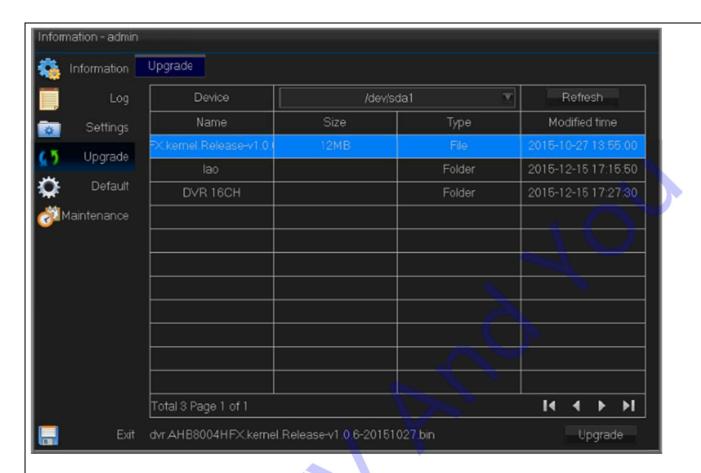
Version upgrade:

Can make upgrading for device version, the left side upgrade button can reveal full name of selected files.

- 1. Can double-click the file to upgrade.
- 2. Can select the file with left-key and click upgrade button to make upgrading.

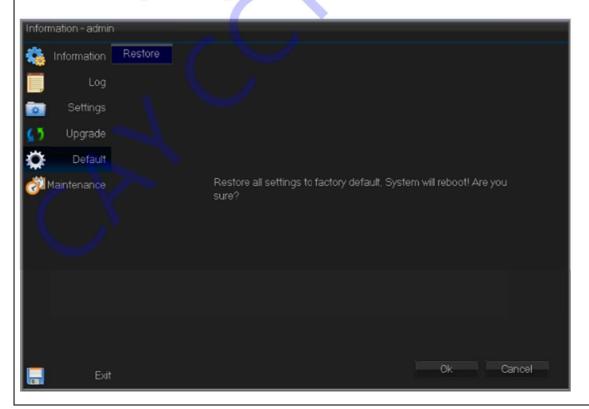
The equipment will reboot automatically after upgrade, which will remind error information of file if upgrade failure.

Note: USB flash disk need to be recognized and should have upgrade software inside. (Format the USB flash disk in advance will be better)



Default configuration:

This item is recovering default setting option:



Click Ensure button, then will remind you whether need to be restarted or not. The equipment will recover to factory status after reboot.

Note: IP address and user name won't recover to settings.

Automatically Maintenance:

The device can restart the maintenance automatically in a certain time after enabling the feature.

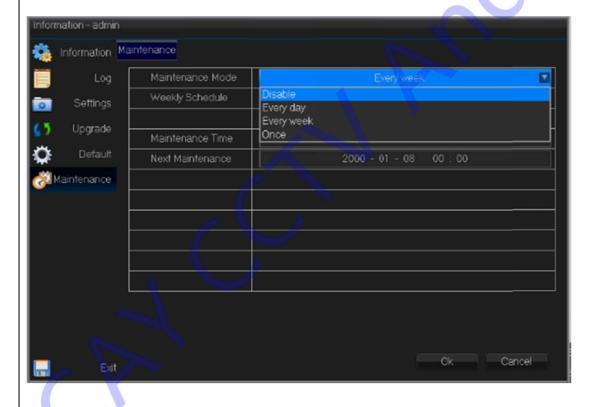
Maintenance mode: Disable, Every day, Every week, Once.

Disable: Cannot use the function

Every day: After setting the time, it can restart maintenance every day at the same time.

Every week: Can set timing maintenance at single day, and set specific date maintenance from Monday to Sunday.

Once: This mode will become Forbidden mode after Single-pass maintenance.



Chapter 6 Appendix

Frequently Asked Questions:

- 1. Why cannot start when connect power?
 - Power adapter problems, change another one and try again.
 - Low battery of adapter, please remove the hard disk and restart to examine.
 - Hardware problems.

2. Why no menu and image output after starting?

Check the display device whether can work normally or not, or touch&hold [Fn] until menu appear.

- 3. Why has "di-di-didi" warning voice when opening new buy machine?
 - No have hard disk in DVR
 - Have hard disk in DVR but no make initialization for hard disk.
 - Broken hard disk.

If no need hard disk, please choose abnormal menu setting and remove No Linkage Sound Alarming from Error HDD; if installed HDD, please choose HDD management menu and initialize the hard disk; if the HDD is broken, please change another one.

4. Why monitor no have response when operate remote control?

Please refer to Chapter 3.4 for the right way to use remote control.

5. Why cannot control the fast ball?

- PTZ control function of the matched channel cannot work.
- RS-485 port cable connection is wrong.
- Fast ball decoder type is wrong.
- Fast ball decoder Baud Rate setting is wrong.
- Fast ball decoder address bit setting is wrong.
- RS-485 of main board is broken.

6. Why cannot record?

- No initialization for HDD, please initialize HDD first.
- Video function cannot start or error configuration.
- HDD is full but no start circle function, please refer to chapter 6.1 for Video Configuration, or change another new initialized HDD and try again.
- Broken HDD, change new one.

7. How to input password and number?

Mouse: The approaches of local machine to input password and number is clicking any space bar which need to input character, then keypad will pop-up automatically; user can choose letter and number to input arbitrarily. For example, input password, please click "Password" inputting bar, keypad will pop-up automatically.

Front panel or remote control: Move cursor to space bar which need to input character by front panel or remote control, then press [Enter] or [OK] to export virtual keyboard, user can choose letter or number to input arbitrarily.

8. Why the time become 2009-1-1 when start device next time?

- Check the battery installed or not on main board.
- Check the battery power is exhausted or not, if exhausted, please change new battery

Technical Specifications are subject to change without prior notice.