H.264 Digital Video Recorder

User Manual

For H.264 4ch/ 8ch/16ch/32ch Digital Video Recorder
Version 1.1

ADVICES
Design and description of this product are subject to
change or renewal without notice

Caution

Please read this User manual carefully to ensure that you can use the device correctly and safely

This manual is suitable for 4 channel, 8 channel, 16 channel and 32 channel series DVR. In this book, we take 200fps 16 channel DVR as a sample. All examples and pictures used are conforming to it.

➢ Please use the appropriate power adapter for the DVR
➢ Please use individual power instead of share electrical outlets with other electrical equipment.
➢ Please choose high quality hard disk which could meet the working demand of DVR.
➢ To protect the main chipset from thunder damage, please make sure the ground wire is correctly connected before using DVR.
➢ Do not expose DVR to rain or moisture.
➢ Avoid direct sunlight and stay away from heat source.
➢ Keep all liquid away from the DVR.
➢ Do not touch the power plug or case with wet hands as this could result electric shock.
➢ Do not put heavy objects on the DVR
➢ The DVR cannot be installed at the place with dust. And avoid potential mechanical vibration or impact.
➢ Do not disassemble or repair the DVR by yourself.
➢ Do not open the cover or insert any objects into DVR.
➢ Handle with care; avoid the collision or strong fall.
If the DVR run into hard objects accidentally, which leads to the DVR cannot work normally, please contact the authorized dealer to repair or replacement.

Contents

Chapter 1- Introduction

1.1 DVR Introduction

This model DVR (Digital Video Recorder) is designed especially for CCTV system. It adopts high performance video processing chips and embedded Linux system. Meanwhile, it utilizes many most advanced technologies, such as standard H.264 with low bit rate, Dual stream, SATA interface, VGA output mouse supported, IE browser supported with full remote control, mobile view(by phones), etc., which ensure its powerful functions and high stability. Due to these distinctive characteristics, it is widely used in banks, telecommunication, transportation, factories, warehouse, and irrigation and so on.

1.2 Main Features

Function	Description
Compression Format	H.264 High profile compression with low bit rate and better image quality
Live Surveillance	Support monitor, VGA and HDMI output Display the local record state and basic information
Video Function	Video quality, record resolution, video frame rate adjustable. Support different record modes: Record when power on, Manual, Schedule, Motion Detection, Alarm, Timing etc.
Video Storage	Support large capacity hard disk with SATA interface
Playback	Set recording search, recording play , video file storage Multi-mode playback mode
Backup	Support Backup from DVR to USB, removable hard disk, DVD writer; and backup from network to hard disk
Alarm	Alarm activate video record, tour, message, buzzer, email, ftp function Support external alarm signal input
Network	Support cloud access (www.dvrcenter.net),mobile view, Multi-kinds of browser remote view
Mouse Operation	Support USB mouse operation
PTZ configuration	Support RS485 decoder to control PTZ function Support various PTZ protocols, remote PTZ control through internet Support PTZ auto cruise tracks

Feature：

➢ H.264 High profile Video compression format

➢ G.711 Audio compression format

➢ Windows Style GUI, embedded real-time Linux operating system

➢ Combines the function of DVR/NVR/HVR together, support pure analog input, pure network HD video input, and analog + network HD video input. (not all models support this function, depending on actual machine)

➢ Full real-time Multi-operation(preview, record, playback, backup, network surveillance, mobile monitor)

➢ Support Dual stream network transmission(Main stream for local storage, sub-stream for network transmission)

➢ Support Cloud service, P2P function, easy to do remote control

➢ Support 3G & Wi-Fi extension

➢ Support Mobile phone view (Android\ iPhone\ iPad\ Blackberry\ Windows Phone)

➢ HDMI and VGA output at 1920×1080P resolution

➢ Support Multi-browser, including Windows IE\Firefox\Chrome\Safari

➢ USB 2.0 interface support backup, CD/DVD writer, software upgrade, mouse operation

➢ Support multi-kinds of language menu

➢ CMS Software Supported

1.3 Front Panel instructions

🖑 *Notice: The pictures are only for reference; please make the object as the standard.*

4-8-16 channel
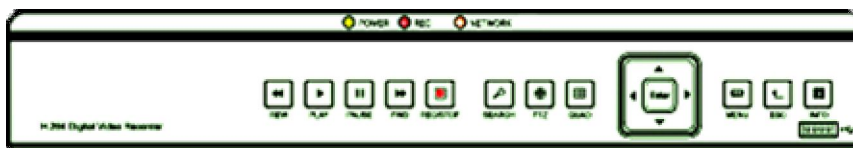
8-16 channel
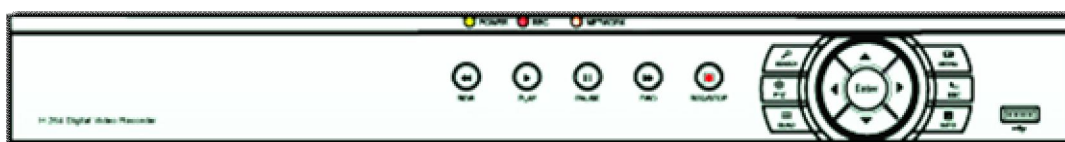
1.3.1 Front panel button operation function list.

No.	Button name	Mark	Function
1	Main menu button	**MENU**	Enter the main menu settings
2	Direction button	∨ ∧	To move up or down of the selection setting in the menu
		< >	To move left/right of the selection setting in menu Playback :x2/ x4/ x8/ x16 Multiple Speed
	Main menu/Confirm button	**ENTER**	Confirm
			Enter main menu or next submenu
3	Cancel button	**ESC**	Back to the previous menu or exit the menu operations
			Back to the real-time surveillance during playback
4	Back play	◄◄	Back playback
5	Fast play	►►	Play in the multi-fast or regular speed during playback
6	Stop playback	●	Stop playback
7	Play/pause button	►ǀǀ	Play the record or pause during playback
8	Recording button	**REC**	The LED lights on when the DVR is recording
9	Recording search button	**SEARCH**	Search recording files
10	PTZ control button	**PTZ**	Enter PTZ setting, PTZ control
11	System information	**INFO**	Enter the DVR system information interface
12	Quad	**QUAD**	Switch single or multi channels
13	REC/NETWORK/POWER Led Lights	**REC NETWORK POWER**	DVR is recording, the light is bright Network connects normally if lighted, Otherwise the light isn't bright Power light

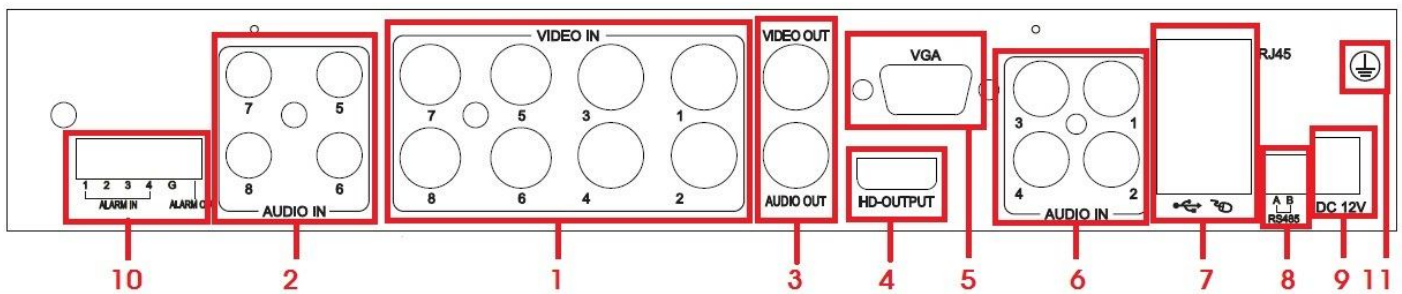## 1.4 Real Panel instructions

1.4.1 4CH DVR panel
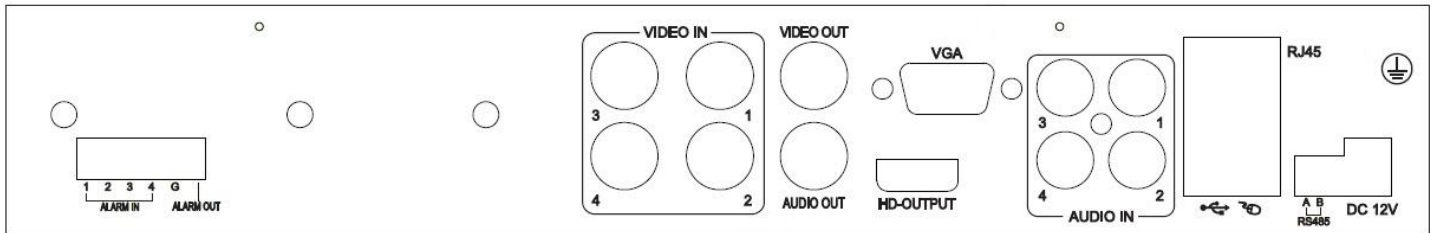
1.4.2 8CH DVR panel

8CH DVR panel 1

8CH DVR panel (1)

(1)Video input	(2) Audio input	(3) Video/Audio output	(4) HDMI Port
(5) VGA port	(6) Audio input	(7) Network interface/USB port	(8) RS485 interface
(9)Power	(10) Alarm input/output	(11) Ground connection	
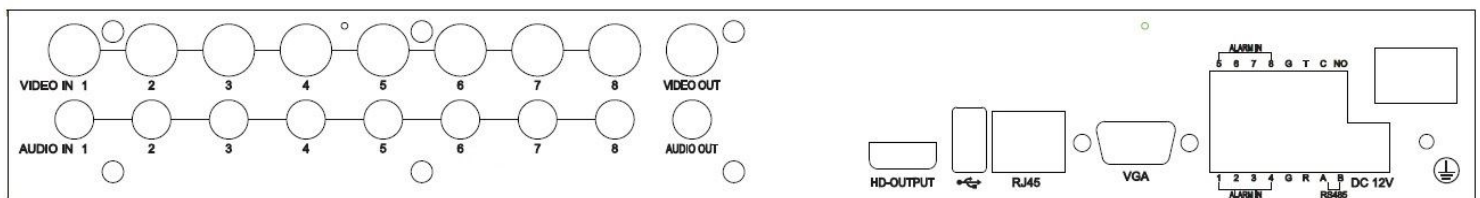
8CH DVR panel (2)

1.4.3 16CH DVR panel
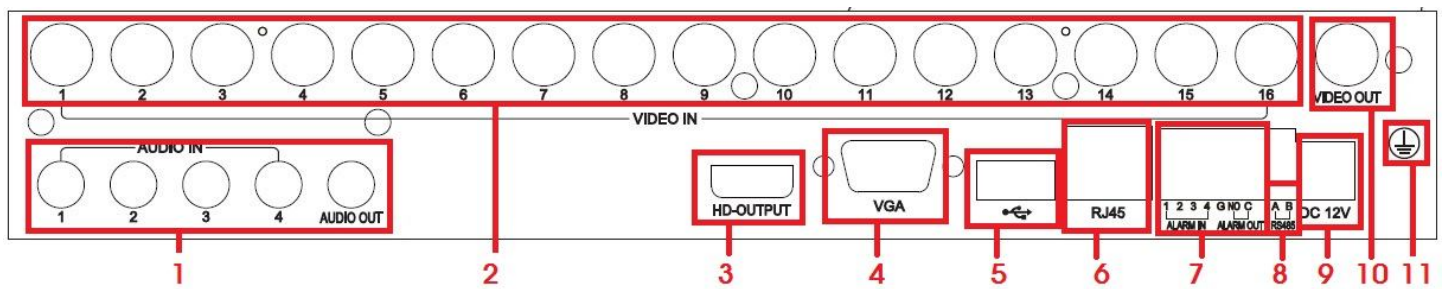
16CH DVR panel (1)

(1)Audio input/output   (2) Video input   (3) HDMI Port   (4) VGA Port

(5) USB interface   (6) Network interface   (7) Alarm input/output   (8) RS485 interface

(9)Power   (10) Video output   (11) Ground connection
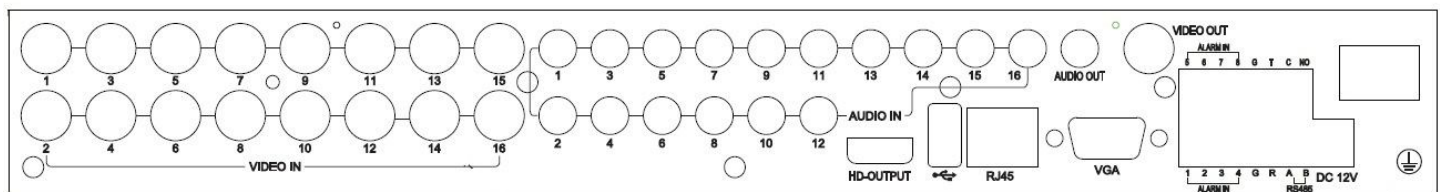
16CH DVR panel (2)

1.5 DVR Remote controller

It uses two AAA size batteries and works after loading batteries as following:

Step1: Open the battery cover of the Remote controller

Step2: Place batteries, please take care the poles (+ and -)

Step3: Replace the battery cover

🖑 *Notice: Frequently defect checking as following*

     1. Check batteries poles

     2. Check the remaining charge in the batteries

     3. Check IR controller sensor is mask

If it doesn't still work, Please change a new remote controller to try, or contact your dealers

The interface of Remote controller showed as below:

Serial number	Name	Function
1	POWER Button	Same as POWER button on the front panel
2	SEARCH Button	Enter playback mode
3	Numeric button	Code input/number input/channel switch "10+"(press 0 and 1-6 to switch from channel 11 to 16)
4	QUAD	Same function as QUAD button on the front panel
5	Direction button	Same function as direction button on the front panel
6	MUTE	Close the audio
7	INFO	Enter system information
8	⏮	Previous file
8	⏭	Next file
9	⏪	Back Play
9	⏩	Fast Play
10	●	Record
10	■	Stop Playback
11	⏯	Play/Pause
12	PTZ	PTZ control

Chapter2-DVR Installation

☝ **Notice**: *Check the unit and the accessories after getting the DVR.*

Please disconnect the power before connected to other devices. Do not hot plug in/out

2.1 Install the Hard Disk Drive

1 .Please don't remove the hard disk when the DVR power is turned on.

2. Loosen the screws on the right sides When DVR power is turned off, and then remove the top cover.

3. Connect the data and power cables of hard disk with the DVR motherboard. Fix the HDD to the bracket using 4 screws.

4. If the user has high demand on HDD, we suggest using the special hard disk for security and protection.

2.2 Connect the cameras and monitors

2.2.1 Connect the camera signal to the DVR video input via BNC cable, and then connect the DVR video output to the monitor via VGA. If the camera supports PTZ control, connect the camera cable to the DVR video input via RS-485 interface.

2.2.2 System connection diagram, for example 8CH DVR connection as follows:

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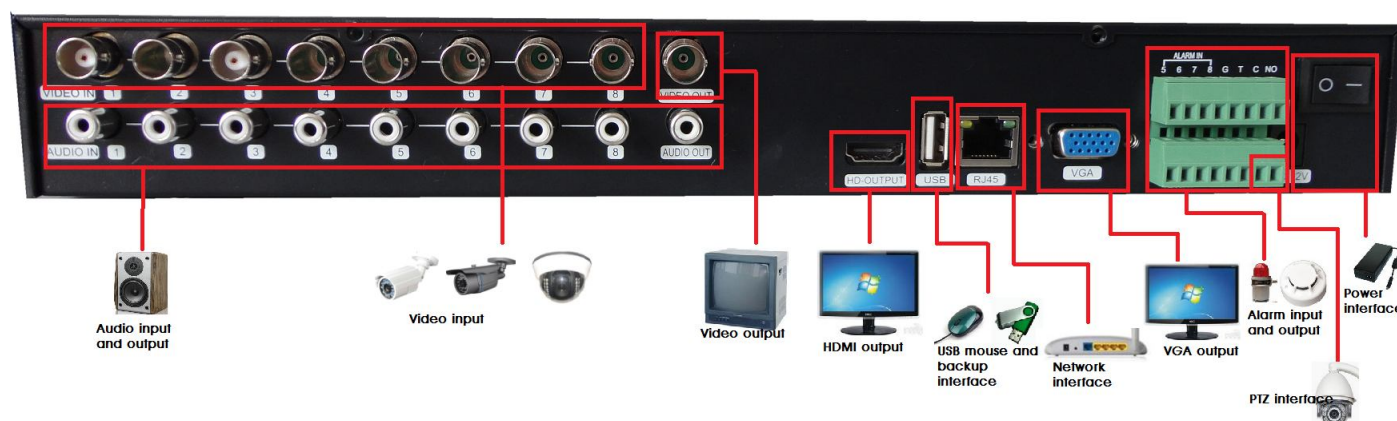
Picture 2.1 System connection diagram

2.3 Connect the Power

Please use the power adapt to the DVR. After connection, please checks to make sure that the audio and video input/output interface are well connected.

Chapter3-Basic Operation Instructions

3.1 Power On/Off your DVR

> 🖑 **Notice**: 1.Before you power on the unit, please make sure all the connection is good.
> 2. Proper startup and shutdown procedures are crucial to expanding the life of your DVR
> 3. Suggest using UPS to protect the power supply under allowable conditions

3.1.1 Power on your DVR

Plug the power supply and turn on the power supply switch. Power supply indicator light shining indicates turning on the DVR. After startup you will hear a beep. The default setting of video output is multiple window output modes. If the startup time is within the video setting time, the timing video recording function will start up automatically. Then the video indicator light of corresponding channel is shinning and the DVR is working normally.

3.1.2 Power off your DVR

There are two ways to shut down your DVR:

Option 1: Standard Shutdown (soft switch)

        Enter the main menu, click on Menu→Shutdown

    2: Manual Shutdown (hard switch)

        Pressing the power supply switch, plug off the power supply

3.2 Login DVR

When the DVR boots up, the user must login and the system will provide the corresponding function according to the user authority. There are 3 user settings: *Admin, Guest* and *Default*. If the user name default *Admin,* there is no password. *Admin is a*s super user. *Guest and default* are the common users under factory settings.

Pic.3.1

Password protection: There is no password, just knock the "ok" and you will enter.

After you set a password, if the password is continuous wrong three times, the alarm will start. If the password is continuous wrong five times, the account will be locked. (Through Reboot or after half an hour, the account will be unlocked automatically)

For your system security, please modify your password after first login.

3.3 Preview

You can right click mouse to choose the switch between the windows.

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.

1		Recording status	3		Video loss
2		Motion detection	4		Camera lock

3.4 Shortcut menu

In Preview mode you can right click mouse to get the shortcut menu, picture as below:
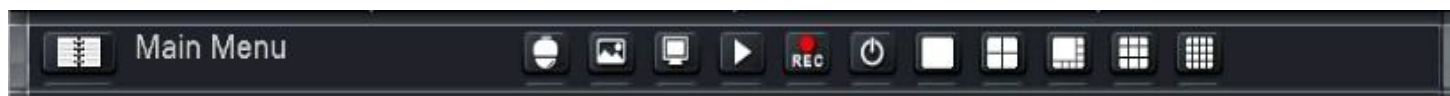
Pic.3.2 Shortcut Menu

The shortcut menu includes: Main Menu, PTZ control, Color Setting, Output Adjust, Playback, Record Mode, and Logout

3.4.1 Main Menu

Main Menu: Access main menu to adjust all settings

When you login, the system main menu is shown as below:
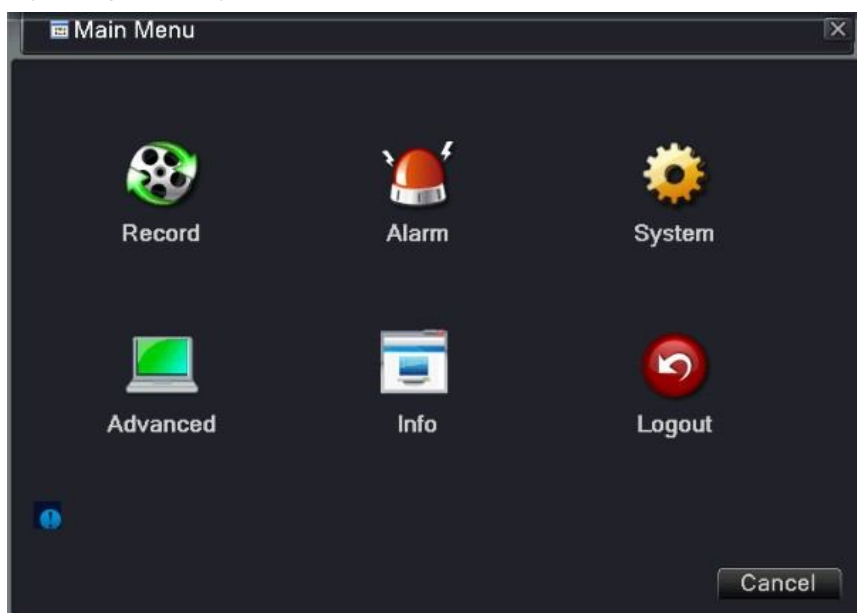
Pic.3.3 Main menu

3.4.2 PTZ Control

PTZ Control: Functions including PTZ direction control, step, zoom, focus, iris, setup operation, patrol between spots, trail patrol, boundary scan, assistant switch, light switch, level rotation and so on etc.

☝ ***Notice****: 1.Before operation, please make sure the Decoder 485+,485- line well connected with DVR 485+,485- line.*

2. Before operation, click main menu-> system-> PTZ config to set the PTZ parameters.

3. The PTZ functions are decided by the PTZ protocols.

Pic.3.4 PTZ control interface

【**Speed**】**:** Set the PTZ rotation range, Default range 1-8

【**Zoom**】**:** Click－/＋ button to adjust the zoom of cameras

【**Focus**】**:** Click－/＋ button to adjust the focus of cameras

【**Iris**】**:** Click－/＋ button to adjust the Iris of cameras

【**Hide**】**:** Current interface will be temporarily hidden after click it

【**Direction control**】**:** Control the PTZ rotation. 8 directions control is supportive.

【**PTZ Trace**】**:** Full screen show channel image. Press the left mouse button, can control PTZ to rotate. Press the left mouse button and rotate the mouse, can adjust the zoom of cameras.

【**Set**】**:** Enter the function operation menu.

【**Page switch**】**:** Switch between different setting pages.

Click Page switch will get more functions setting

Pic.3.5 Preset setting

[Special functions:]

1. Preset

Set a location for the preset, calls the preset points, PTZ automatically turns to the setting position

(1) Preset setting

Set a location for the preset, procedure is as follows:

Step1: in Pic.3.4, click the Direction button will turn into preset position, click the Set button to enter Pic.3.5.

Step 2: click the Preset button, and then write the preset points in the input blank

Step 3: click Set button, return to the Picture 3.4 Complete setup, that is the preset points and preset position

corresponds.

Delete Preset：Input preset points, click Del Preset button, remove the preset.

(2) Preset Point Calls

In Pic.3.4, click Page Switch button, enter PTZ control interface as shown in Pic.3.6. In The input blank, write the preset points, then click Preset button, PTZ turn to the corresponding preset point.
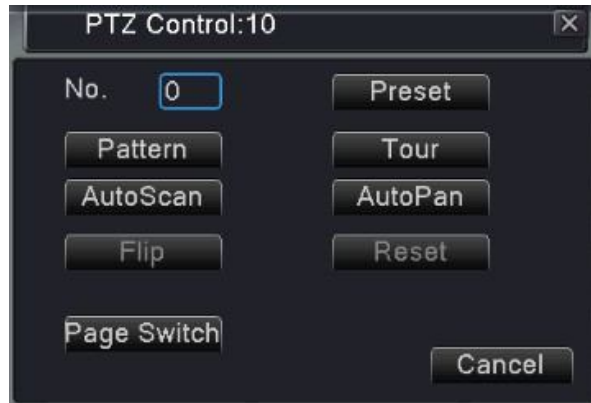
Pic.3.6 PTZ control

2. Cruise between Points (Tour)

Multiple preset points connected cruise lines, call cruise between points, the PTZ run around on the line

Pic.3.7 Cruise between points settings

(1) Cruise between Points Settings

Cruise lines are connected by multiple preset points, setting procedure is as follows:

Step 1: In Pic.3.4, the Direction key will turn PTZ to designated location, click Set button to enter Pic.3.7,

Step 2: click Tour buttons, and then write proper value into the Patrol No. and Preset Points blank, click Add Preset Points button, complete setting (also can add and delete cruise line which has been set up)

Step 3: repeat step1 and step2, until set out all the preset designated cruise lines

Remove Preset：Please input preset value in the blank, click Del Preset button, then remove the preset points.

Remove Cruise Line：Input the number of cruise line, click Del Tour button, and then remove the cruise lines set

(2) The Calls of Cruise between Points

15

In Pic.3.4, click Page Switch button, enter PTZ control menu as shown in Pic.3.6. Please input the number of cruise in the value blank, then click Tour button, PTZ begins to work on the cruise line. Click Stop button to stop cruise.

3. Scan (Pattern)

PTZ also can work on the preset scan line repeatedly.
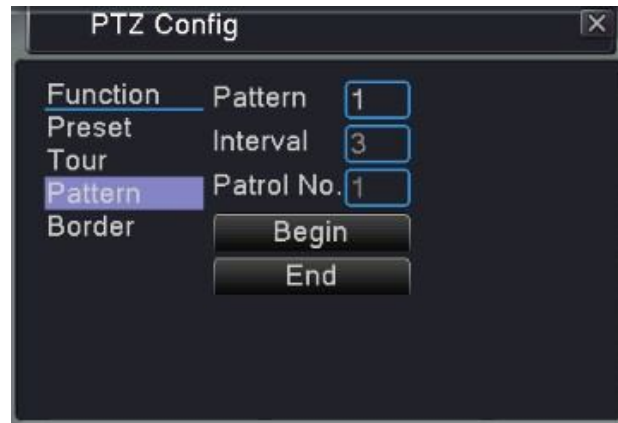
Pic.3.8 Scan settings

(1) Scan setup

Setting steps:

Step1: In Picture 3.4, click Setup button, enter Picture 3.8；

Step2: Click Pattern button, then input proper value in the scan value blank;

Step3: Click Begin button, enter Picture3.4, here you can set the following items: Zoom, Focus, Aperture, and Direction and so on. Click Setup button to go back Picture 3.8

Step4: Click End button to complete setup。Click the right button of the mouse to exit.

(2) Scan Calls

In Pic.3.4, click Page Switch button, then enter PTZ control menu as shown in Pic.3.6. Please input the number of scan in the value blank, then click Pattern button, PTZ begins to work on the scan line . Click Stop button to stop.

4. Boundary Scan (Border)

In a horizontal line, set up a line, call scan, PZT repeat operation according to the route
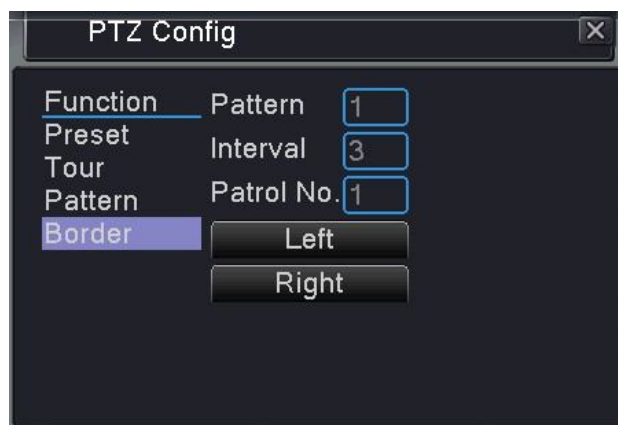
Pic.3.9 Boundary Scan settings

(1) Boundary Scan setup

Set a period of horizontal curve for PTZ search path, the steps are as follows:

Step1：In Pic.3.4, click Direction button to turn the PTZ to preset direction, then click Setup button enter Pic.3.9, select the left boundary, return to Pic.3.4;

Step2：Please click direction arrows to adjust PTZ direction, click Setup button enter Pic.3.9, then select the right boundary, return to Pic.3.4;

Step3: Complete setup, that is the position of left and right boundary

🖑 ***Notice****: When the left and right scan in one horizontal line, PTZ will cycle rotate from left scan along the reverse direction to the right scam.*

When the left and right scan not in the same horizontal line, PTZ will regard the end of horizontal line which connect to left scan as right scan, cycle rotate from left scan along the reverse direction to the right scan.

(2) Boundary Scan Calls

In Pic.3.4, click Page Switch button, then enter PTZ control menu as shown in Pic.3.6.

Please input the number of scan in the value blank, then click Scan button, PTZ begins to work on the scan line. Click Stop button to stop.

5. Horizontal Rotating

Click Horizontally Rotating button, PTZ begins to rotate horizontally (relative to the original position of cameras). Click the Stop button to stop.

6. Rotate

Click on horizontal Rotating button, PTZ turn around.

7. Reset

PTZ restart, all the data clears to 0.

8. Page Switch

In Pic.3.6, click Page Switch button into Pic.3.10, set auxiliary function. Auxiliary number corresponding to auxiliary switch on the decoder.

Pic.3.10 Auxiliary functions

【**Intuitive Auxiliary Operation**】choose auxiliary equipment, select Open or Close button, switch control；

【**Auxiliary Number**】The operation of corresponding auxiliary switch according to PTZ agreement；

【**Page Switch**】 In Pic.3.10，click Page Switch button enter the Pic.3.4 PTZ Main Menu, the menu itself can be control by the menu control buttons

3.4.3 Color Setting

👆 ***Notice****: Color setting only applies for Hybrid (HVR)/DVR mode, and only analog channel can set colors.*

Color Setting: Set the parameters of current channel

You can use the shortcut menu to enter the interface. The image parameters include: Brightness, Contrast, Saturation, Hue, Gain, Horizon sharpness, Vertical sharpness. You can set different parameters for different time
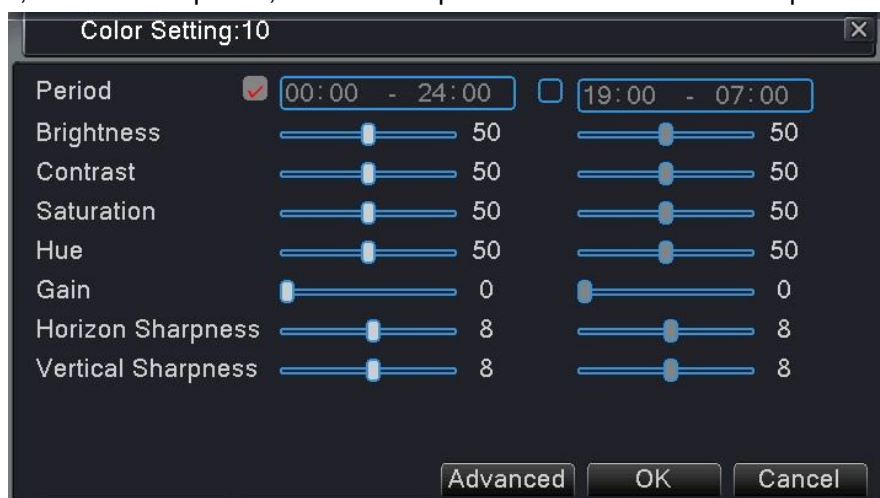
Pic.3.11 Color settings

3.4.4 Output Adjust

Output Adjust: Adjust output parameters.

You can use shortcut menu or enter main menu→management tools→Output adjust.

Pic.3.12 Output adjust

3.4.5 Playback

Playback: Access playback mode, Set recording search, recording play, video file storage

Pic.3.13 Playback   Pic.3.14 Listed files

1. Playback control   2. Recording files time and status   3. Operation Hints
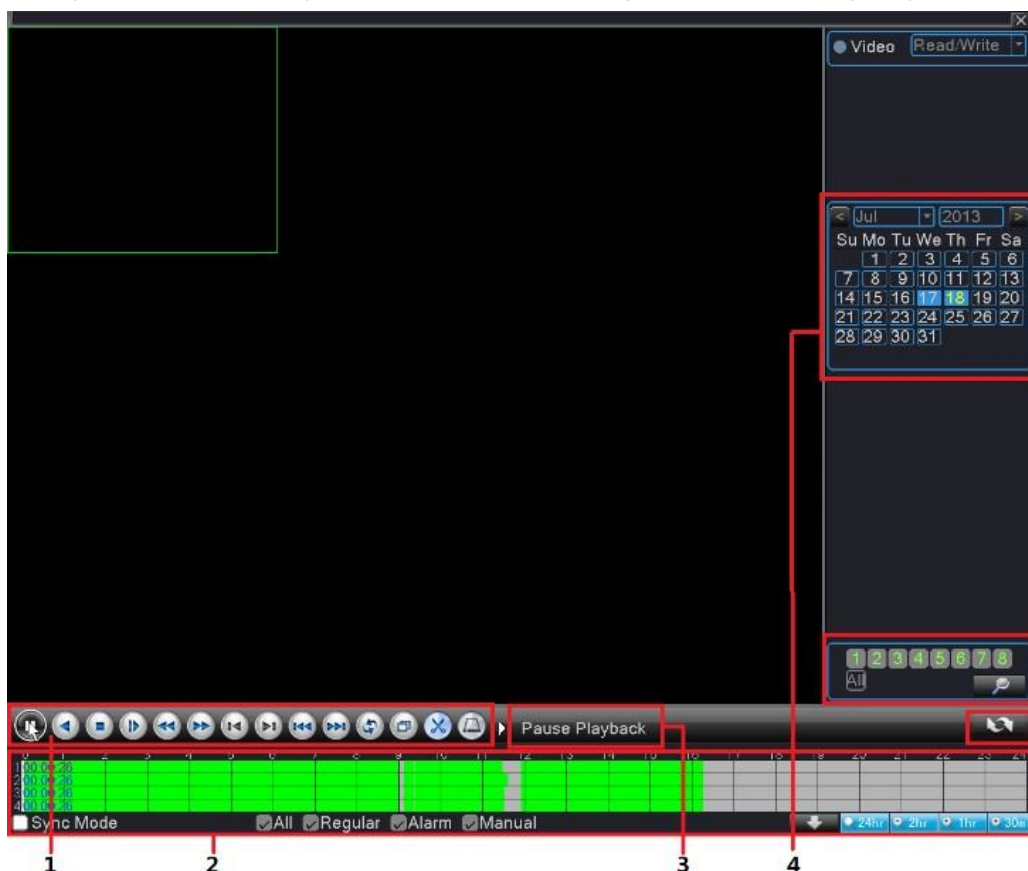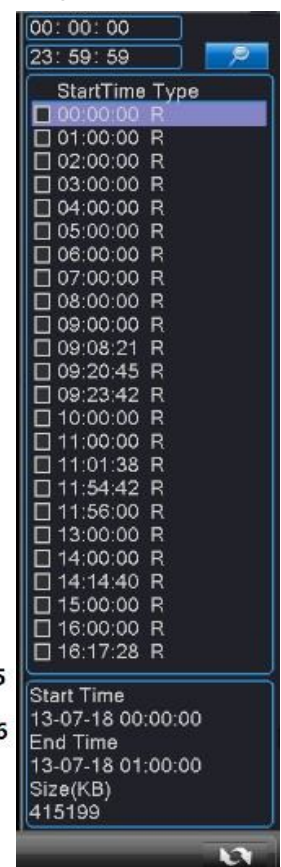4. Date   5. Files searching   6.Switch to recording files information

Playback control details

Key	Functions	Key	Functions
	Play/Pause		Backward play
	Stop		Slow play
	Fast backward		Fast forward
	Previous frame		Next frame
	Previous file		Next file
	Repeat Play		Full screen
	Edit		Record backup

3.4.6 Record Mode

Record Mode: Check current channel record status

You can use shortcut menu or click main menu→recording function→recording set to enter the recording control interface.
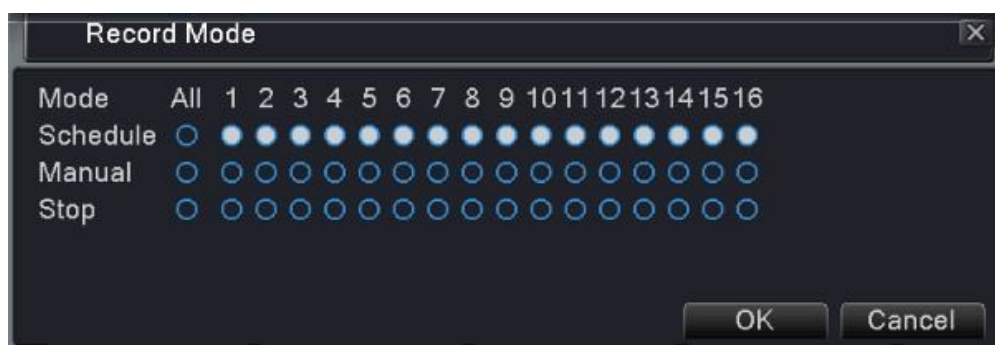
Pic.3.15 Record

You can check current channel status: ○ means it is not in recording status, ● means it is in recording status.

【Schedule】: Record according to the configuration.

【Manual:】Click the all button and the corresponding channel is recording no matter the channel in any state.

【Stop】: Click the stop button and the corresponding channel stops recording no matter the channel in any state.

3.4.7 Logout

Logout: Logout, Shutdown the system or Reboot.
You can use shortcut menu or enter main menu→logout
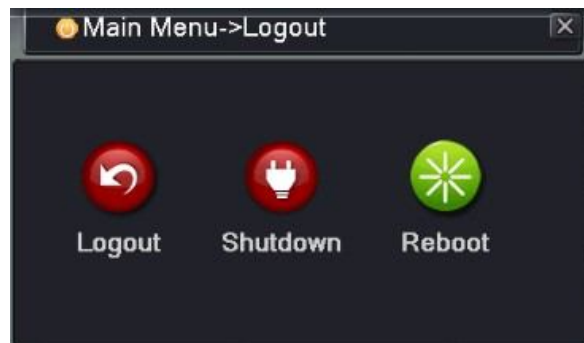
Pic.3.16 Logout/Shutdown/Reboot DVR

【**Logout**】Quit the menu. Offer password next entrance.
【**Shut down**】Quit the system. Turn off the power supply. When press the shut down button, there is schedule hint. After three seconds, the system is shut down. Cancel midway is of no effect.
【**Reboot**】Quit the system. Reboot up the system.

Chapter4-Main Menu

4.1 Main Menu Navigation

Main Menu	Sub Menu	Function
Record	Configuration	Set recording parameters, like recording type, recording time etc.
	Playback	Recording search, recording playback, recording files storage
	Backup	Detect backup device, format backup device, backup files
Alarm	Motion Detection	Set motion detection channel, sensitivity, area, linkage parameters: defending time section, alarm output, screen hint, recording, PTZ, patrol, buzzer, email and FTP upload
	Video Blind	Set video blind channel, sensitivity, linkage parameters: defending time section, alarm output, screen hint, recording, PTZ, patrol, buzzer, email and FTP upload
	Video Loss	Set video loss alarm channel, linkage parameters: defending time section, alarm output, screen hint, recording, PTZ, patrol, buzzer, email and FTP upload
	Alarm Input	Set Alarm input channel, device type, linkage parameters: defending time section, alarm output, screen hint, recording, PTZ, patrol, buzzer, email and FTP upload
	Alarm Output	Set Alarm mode: configuration, manual, stop etc.
	Exception handing	No HDD, HDD error, HDD capacity not enough Network cut, IP conflict, linkage parameters: screen hint or buzzer

|		
	Intelligent Analysis	Set algorithm rule: trajectory display, sensitivity, minimum pixel, alert mode, and set linkage parameters：period, alarm output, record, PTZ, Tour, buzzer, Email, FTP upload
System Configuration	General Configuration	Set System time, data format, language, hard disk full time operation, machine number, video format, output mode, summertime, stay time
	Encode Configuration	Set main stream and sub stream parameters: code mode, resolution, frame, code stream control, image quality type, code stream value, frame between value, video/audio enable
	Network Configuration	Set basic network parameters, DHCP and DNS parameters etc.
	Net Service	PPPOE, NTP, EMAIL, IP purview, DDNS parameters
	GUI Display	Set channel title, preview hint icon state, transparency, cover area, time title, channel title fold (only for analog channel)
	PTZ Configuration	Set channel, PTZ protocol, address, baud rate, date bit, stop bit, check
	RS485 Device	Set serial port function, baud rate, date bit, stop bit, check
	Serial port Configuration(RS232)	Set serial port function, baud rate, date bit, stop bit, check
	Tour	Set patrol mode and interval time
	Spot	Set Spot tour mode and interval time
	Digital	Set channel mode, check channel status and configure the digital channel, etc.
Management Tools （Advanced）	Hard disk Management	Set appointed hard disk as read-write disc, read-only disc or redundant disc, clear data, resume date and so on
	User Management	Modify user, team or password. Add user or team. Delete user or team.
	Online User	Break the connection with the already login user. Lock the account after break until booting up again
	Output Adjust	Adjust upside, downside, nearside, starboard distance, black margin vertical & horizontal
	Automatic Maintenance	Set automatic reboot system and automatic deleting files
	Restore	Resume setup state: common setup, code setup, recording setup, alarm setup, network setup, network service, preview playback, serial port setup, user management
	Upgrade	upgrade with external device(like USB)
	Device Info	device hardware configuration and message
	Import/Export	Export the device's log or configuration to external device(like USB flash disk);Input the configuration with external device(like USB flash disk).
System Information	Hard disk Information	Display hard disk capability and recording time
	BPS	Display code stream information
	Log Information	Clear all log information according to the log video and time
	Edition Information	Display edition information
Shut Down		Logout, shut down or reboot

4.2 Record Function

4.2.1 Record configuration

Set recording parameters, the system default setting is 24 hours consecutive recording. You can enter main menu→record function→record configuration to set.

🖑 *Notice: There is at least one read-write hard disk in DVR.*
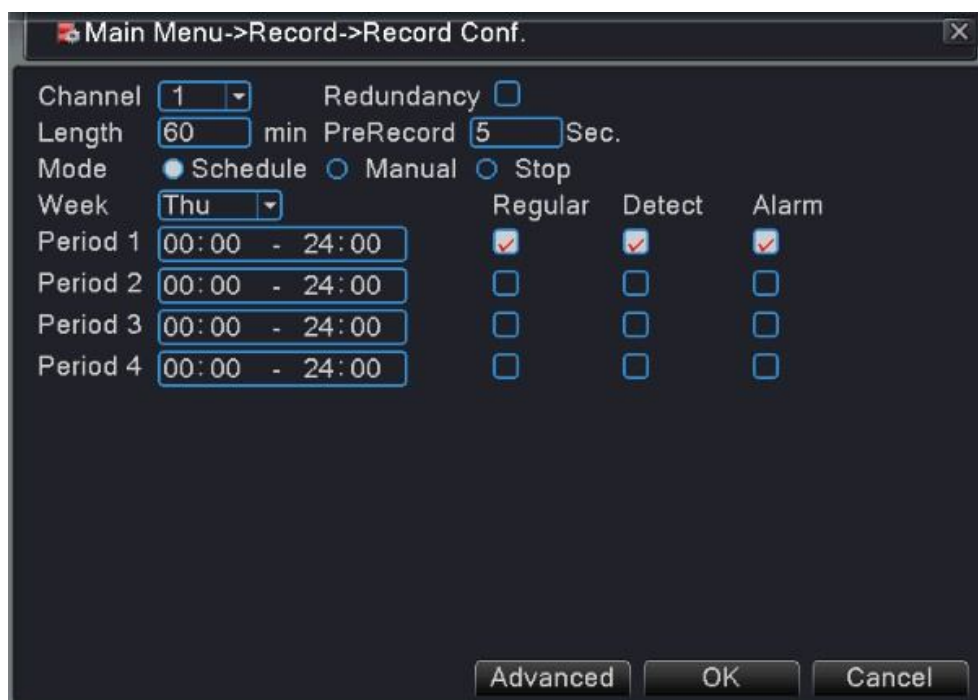
Pic.4.1 Record configuration

Record configuration set the record plan for each channel

【Channel】: Choose the corresponding channel number to set the channel. Choose "all" option to set all channels.

【Redundancy】: Choose the redundancy function to make the recording files double backup. Double backup is writing the video files in two hard disks. When you do the double backup, make sure that there are two hard disks installed. One is read-write disk and the other is redundant disk.

【Length】: Set the time length of each video file.（default value is 60min）

【Pre Record】: Record 1-30 seconds before the action occurs.

【Record Mode】: Schedule, Manual or Stop.

【Schedule】：Record according to the set record type (regular, detection and alarm)and time section.

【Manual】: After choosing manual button, the related channel will do the regular recording whatever the state of current channel is.

【Stop】：Click the stop button and the channel stops recording

【**Week**】**:** Set Monday to Sunday or full week to record

【**Period**】**:** Set the time section of regular recording, the recording will start only in the set range.

【**Recording type**】**:** Regular, detection or alarm.

【**Regular**】**:** Perform the regular recording in the set time section. The video file type is "R"

【**Detect**】**:** Trigger the "motion detect", "video blind" or "video loss" signal. The above alarm function is set as follows: when starting recording, the "detection recording" state is on. The video file type is "M".

【**Alarm**】**:** Trigger the external alarm signal in the set time section. The above alarm function is set as follows: when starting recording, the "detection recording" state is on. The video file type is "A".

4.2.2 Playback (Please refer to chapter 3.4.5)

4.2.3 Backup

You can back up the video files to external storage through setup

☞ *Notice: You need to install storage device before backup. If the backup is terminated, the files already backup can playback individually.*
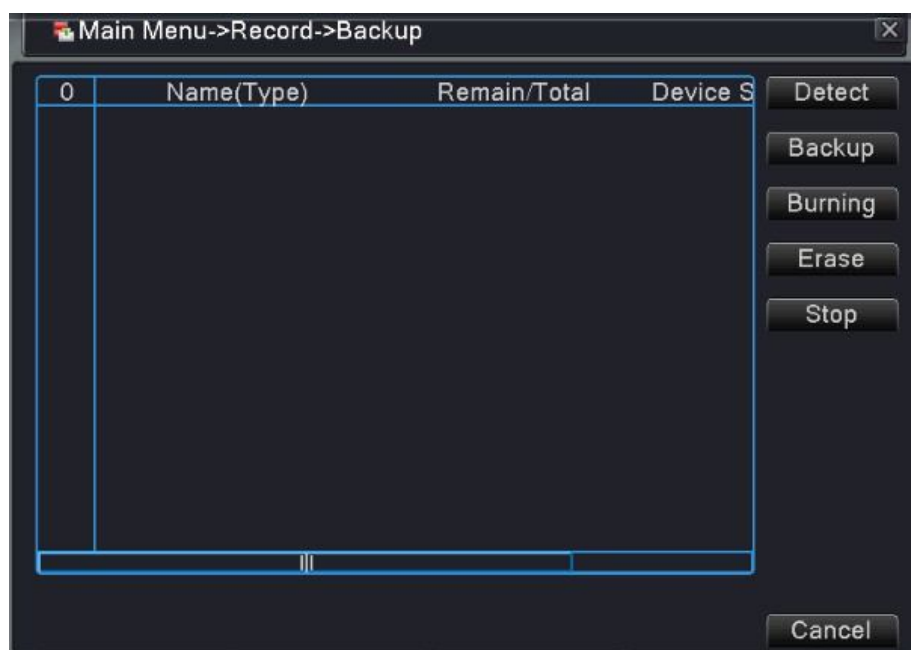
Pic.4.2 Backup

【**Detect**】**:** Detect the storage device connected with the DVR

【**Backup**】**:** Click backup button and the dialog box is popped up（Pic.4.3）. You can choose the backup files according to the type, channel and time.
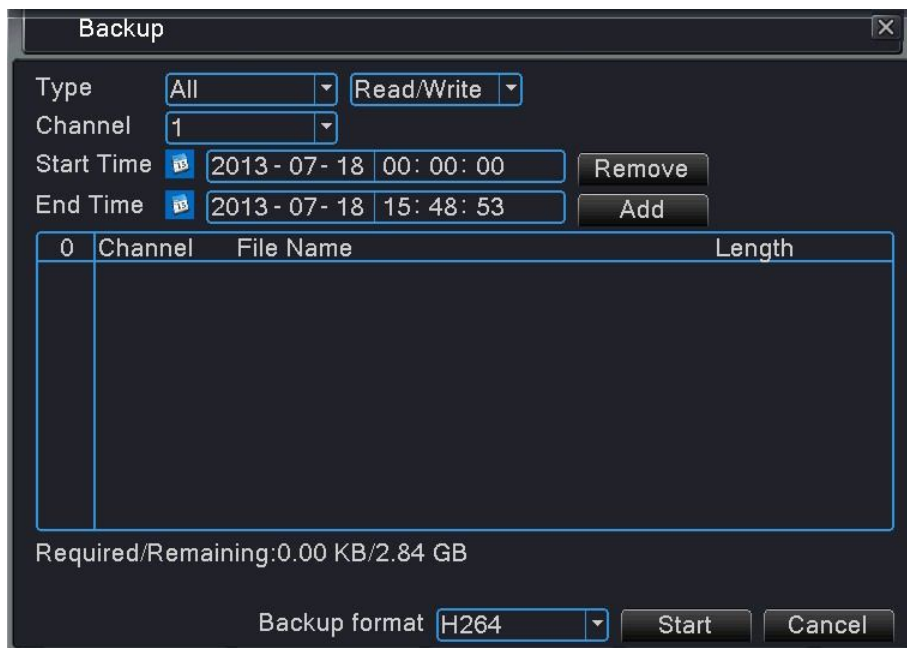
Pic4.3 Backup

【**Remove**】**:** Clear the file information

【**Add**】：Show the file information satisfying the set file attributes.

【**Backup format**】**:** Choose the backup files format, there are two options: H.264 and AVI.

【**Start/Stop**】：Click Start button to start backup, Click stop button to stop the backup

    👆 ***Notice****: During backup you can exit this page to carry out other functions*

【**Burning**】the file will be burned synchronously after click it.

【**Erase**】Choose the file to delete and click erase to delete the file.

【**Stop**】Stop the backup

4.3 Alarm Function

Alarm function includes: Motion Detect, Video Blind, Video Loss, Alarm Input, Alarm Output, Abnormality, and Intelligent

4.3.1 Motion Detect

When system detects the motion signal that reaches the set sensitivity, the motion detect alarm is on and the linkage function is turned on.
    👆 ***Notice****: 1. Motion detect function is different between Hybrid mode & Full digital mode:*
Digital channel: not only to enable motion detect function at local side, but also to enable the remote device that was connected. When remote device detect motion movement, local side will start alarm recording, otherwise this function is not enable.
Hybrid mode: Only needs to enable motion detect function at local side.

2. *Click advanced button can back to upper page, to display surveillance screen, copy, stick, default, and recording setup*
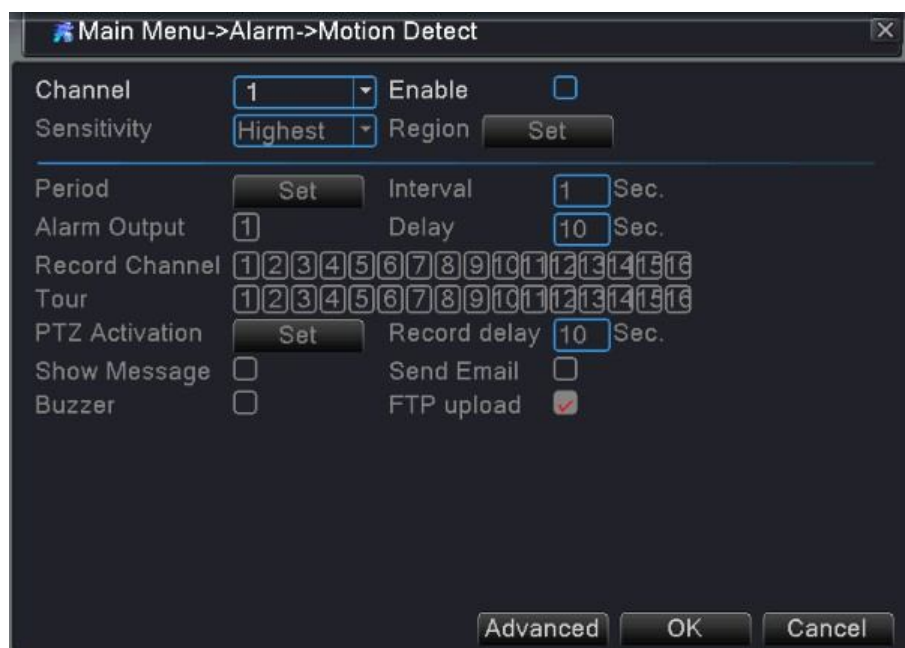
Pic.4.4 Motion Detect

【Channel】: Choose the set motion detect channel.

【Enable】: Tick enable means the motion detect function is on.

【Sensitivity】: Choose from the six levels (Lowest, Lower, Middle, High, Higher, Highest) to set the sensitivity.

🖑 *Notice: Only the motion detect under Hybrid mode/Full analog mode have can set the sensitivity, and only the analog channel can set region.*

【Region】: Clicks set and enter the setting area. The area is divided into PAL16X12. Red block is motion detect defensive area, White block is unfenced area. You can set the area by mouse, drag the mouse and draw the area. Default: all selected blocks are detection area.
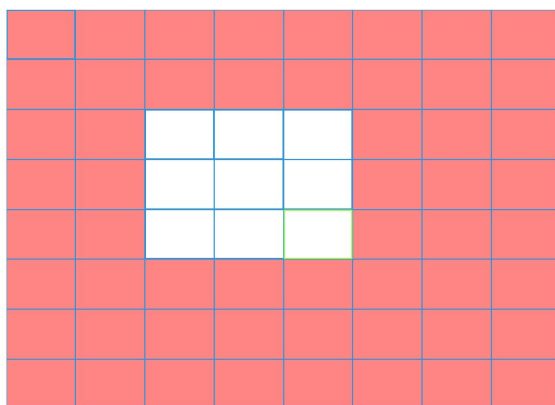
Pic.4.5 Motion detect area setting

【Period】: Trigger the motion detect signal in the set time section. You can set according to week or set uniformly.

Each day is divided into four time sections. ☑ Means the setting is valid.
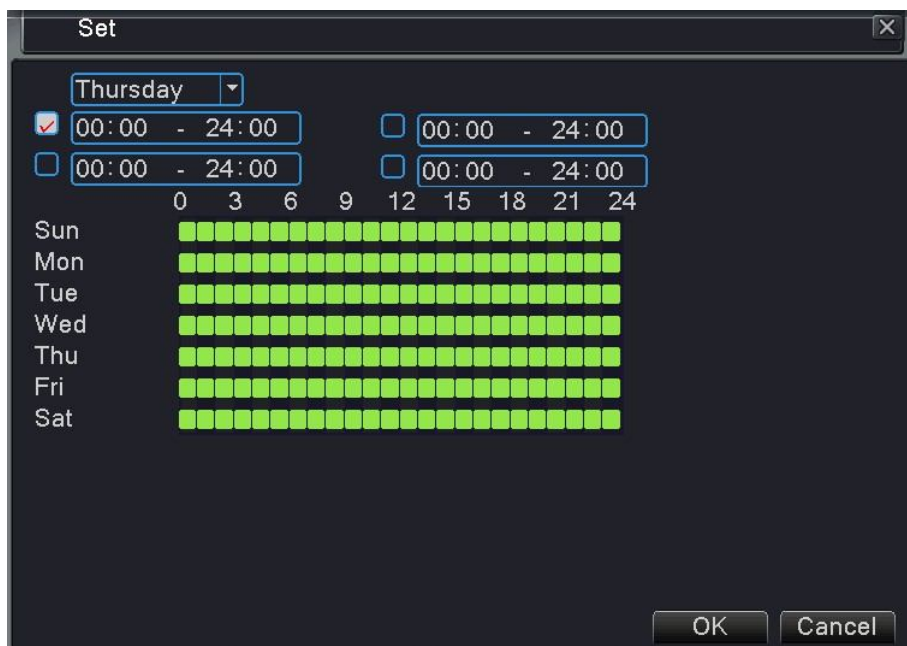
Pic.4.6 Set motion detection time

【Interval】: Only one alarm signal is triggered even there are several motion detect signals in the set interval

【Alarm Output】: Start the external equipment of corresponding linkage alarm when the motion detect alarm is turned on

【Delay】: Alarm lasts a few seconds when the alarm state is turned off. The time range is 10-300 seconds

【Record Channel】:Choose the recording channel; Trigger the video signal when alarm is turned on.

【Tour】: Tick tour means that the selective channel is single window alternate patrol preview. The interval is set in the main menu→system→tour

【PTZ Activation】:When alarms on, set PTZ activation.
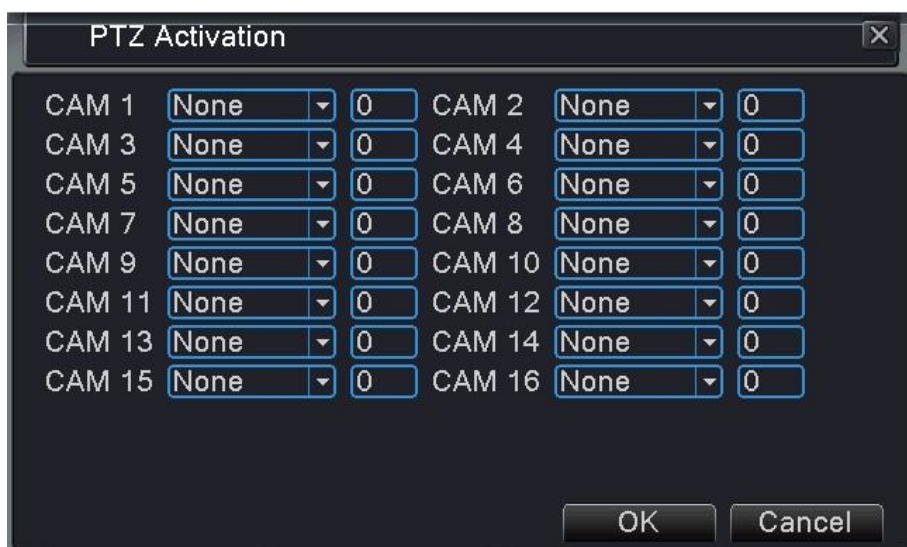
Pic.4.7 PTZ Activation

【Delay】: When alarm is over, recording will last some seconds (10-300sec), and then stop

【Show message】: Pop the alarm information dialog box in the local host computer screen.

【Send Email】:Tick it means sending an email to user when alarms on

【FTP upload】:Tick it means, the video and picture of related record channel & snapshot channel will be

uploaded to assigned position

【**Buzzer**】**:**When alarm happens, device will buzz

4.3.2 Video Blind

When the video image is influenced by the environment such as bad brightness or reaching the set sensitivity parameter, the camera mask function and the linkage function is turned on.
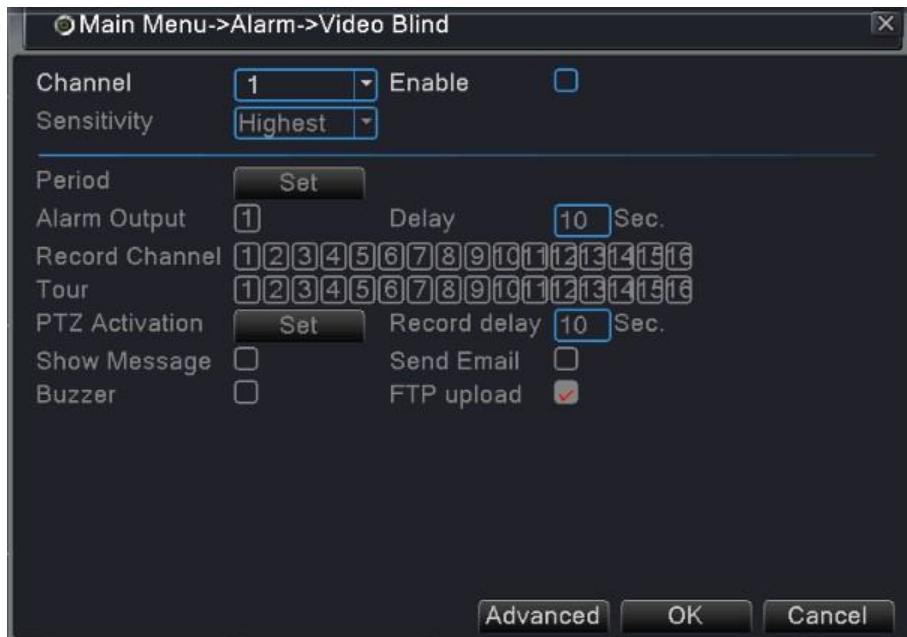
Pic.4.8 Video Blind

Video Blind setting method please refer to chapter 4.3.1 Motion detect

4.3.3 Video Loss

When the equipment cannot obtain the video signal, the video loss alarm and the linkage functions is open
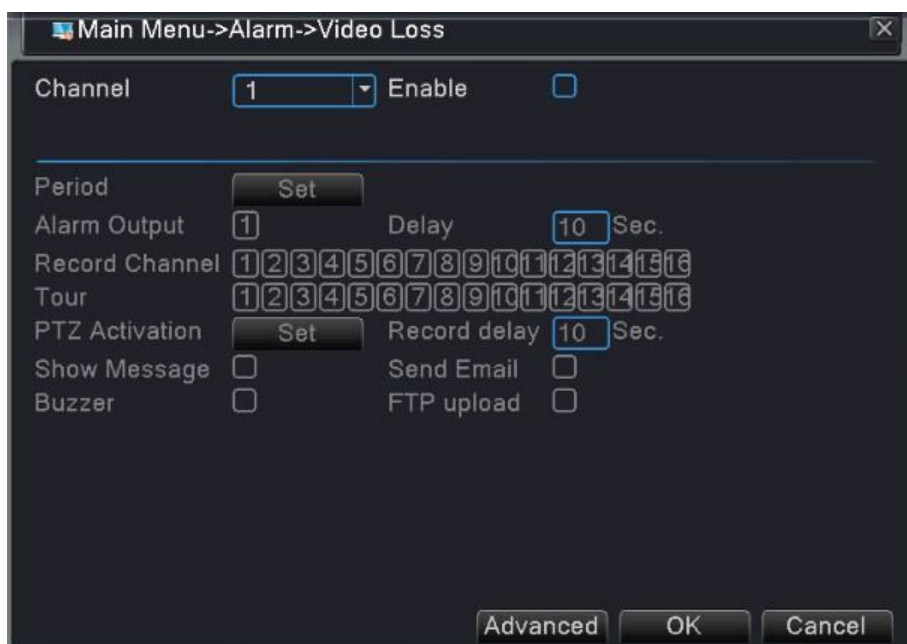
Pic.4.9 Video Loss

Video Loss setting method please refer to chapter 4.3.1 Motion detect

4.3.4 Alarm Input

When the DVR obtains the external alarm signal, the alarm functions is turned on.
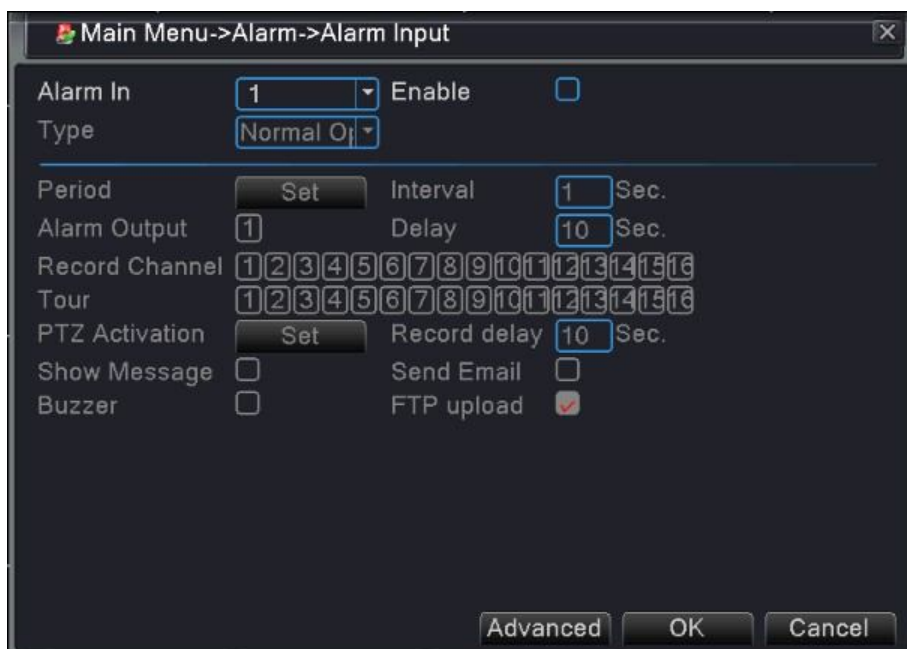
Pic.4.10 Alarm Input

Alarm Input setting method please refer to chapter 4.3.1 Motion detect

4.3.5 Alarm Output

You can click main menu→alarm function→alarm output to enter the recording control interface.
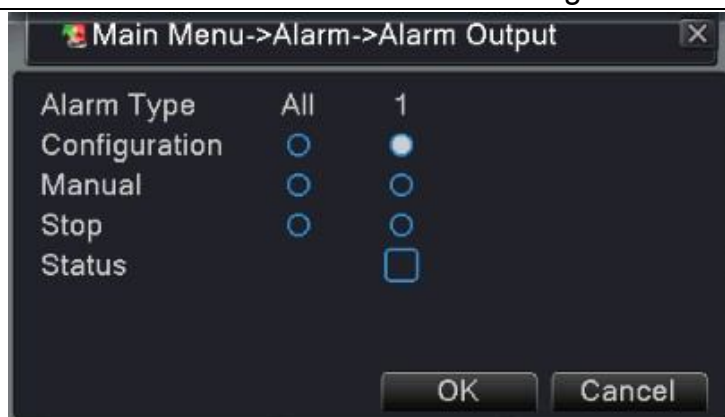
Pic.4.11 Alarm output

You can check current channel status: ○ means it is not in alarming status, ● means it is in alarming status.

【Configuration】Alarm is on according to the configuration.

【Manual】Click the all button and the corresponding channel is alarming no matter the channel in any status.

【Stop】Click the stop button and the corresponding channel stops alarming no matter the channel in any status.

4.3.6 Abnormality

It will buzz and appear screen prompts once no disk, HDD wrong, disk full, network cut, IP conflict and other events, which is convenient for customers to know DVR abnormality.
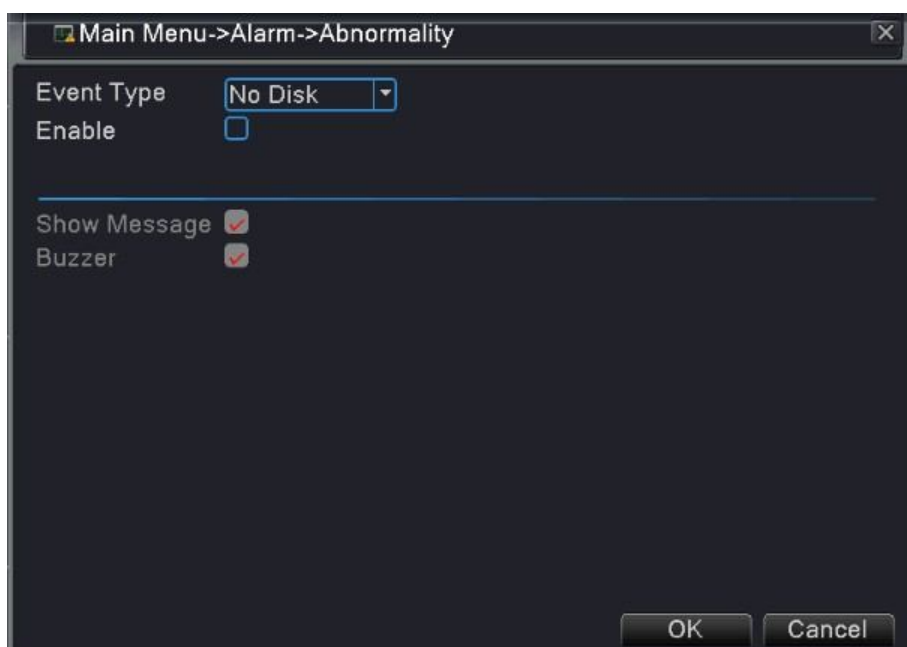
Pic.4.12 Abnormality

【Event Type】: Choose abnormality type, support five events: No disk, HDD wrong, Disk full, Network cut, IP conflict.

【Enable】: Tick it to enable these settings.

【Show Message】:Pop up message on DVR screen

【**Buzzer**】**:** DVR will buzz when abnormality occurs

4.4 System management

System settings includes: General, Encode（under Hybrid/full analog mode）、Network, Net service、GUI display、PTZ configure/RS485 device、RS232、Tour setup、Spot and digital

4.4.1 General

General: General information configuration in the system
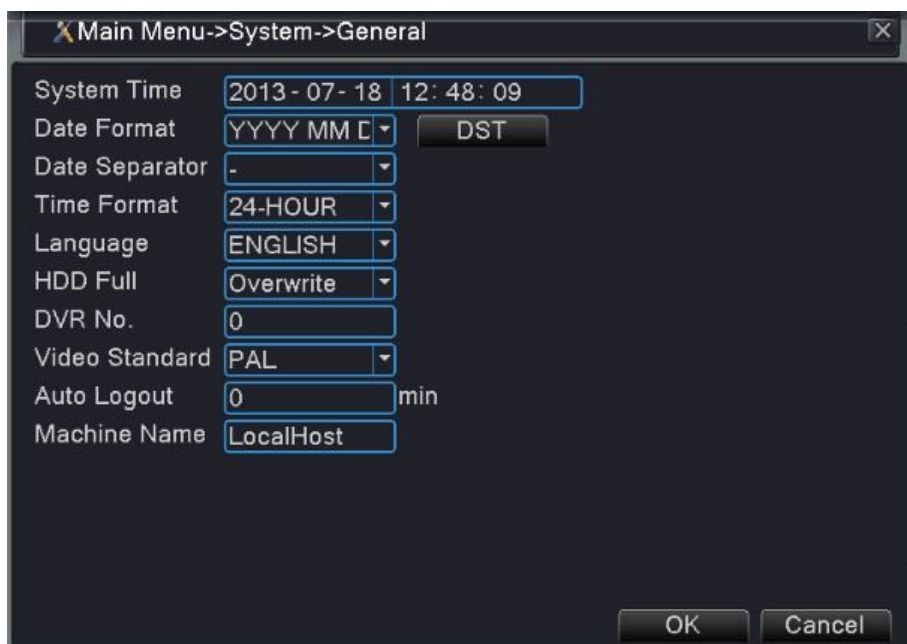
Pic.4.13 General setting

【**System Time**】**:** Set the system date and time..
【**Date Format**】**:** Choose the data format: YMD, MDY, and DMY
【**Data Separator**】**:** Choose list separator of the data format
【**Time Format**】**:** Choose time format: 24-hour or 12-hour
【**Language**】**:** Choose your using language
【**HDD Full**】**:** When the hard disk is full, stop recording or choose overwrite
【**DVR No.**】**:** Only when the address button in the remote controller and the corresponding DVR number is matched, the remote operation is valid
【**Video Standard**】**:** PAL or NTSC
【**Auto Logout**】**:** Set the latency time in 0-60. 0 means no latency time.
【**Machine Name**】**:** Can set the DVR's name

4.4.2 Encode

Extra stream introduces video compression technique which was applying for multi-channel playback simultaneously, Dial-up multi-channel real-time monitor under poor bandwidth, or mobile monitor and so on.
Encode set the video/audio code parameter: video file, remote monitoring and so on. Set every main stream

Pic.4.14 Encode setup

【**Channel**】**:**Choose the channel number.

【**Compression**】**:** Standard H.264 main profile.

【**Resolution**】**:**Resolution type: 1080P/720P/960H/D1/ HD1/CIF / QCIF.

【**Frame Rate**】**:**PAL: 1 fps~25 fps; NTSC: 1 fps~30 fps

【**Bit Rate Type**】**:**You can choose limited code stream or variable code stream. When you choose the variable code stream there are six image quality levels. Under the limited code stream, you can choose the code stream manually

【**Bit Rate**】**:**Set the code stream value to modify the image quality. The larger code stream value the better image quality.

　　　1080P (1024~8192kbsp)　　720P (1024~4096kbps)　　960H (869~4096kbps)

　　　D1 (512~2560kbps)　　HD1 (384~2048kbps)　　CIF (64~1024kbps)　　QCIF (64~512kbps)

【**Frame Interval**】**:**Can choose the range 2~12s
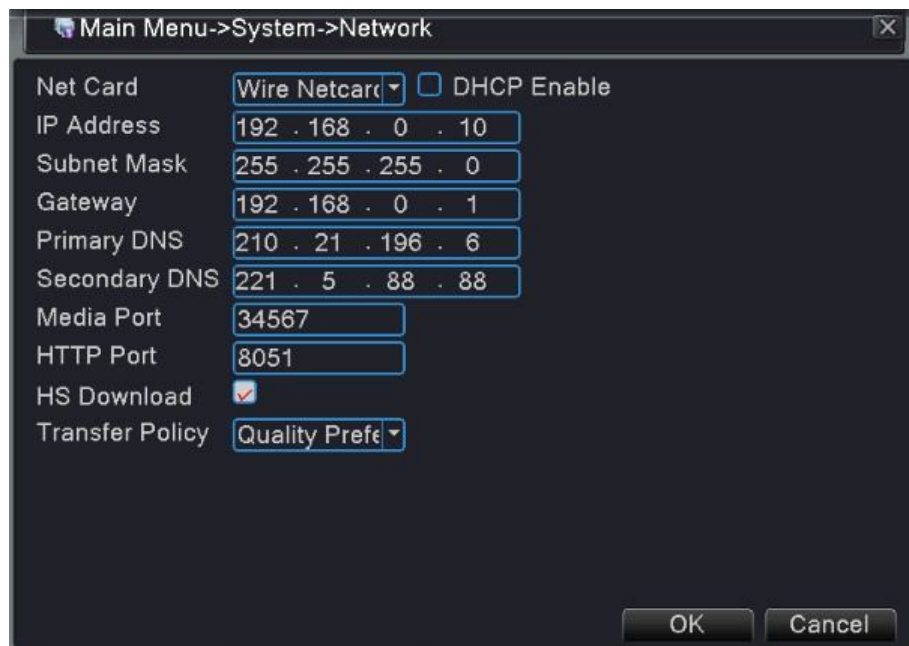
【Video/Audio 】**:**When the icons are all ticked, the video file is video and audio multiplex stream.

Extra stream Settings

【**Extra stream**】**:** Used for client side monitor & mobile monitor.

【**Channel title**】**:** Select channel title and then to choose whether need enable video & audio. The resolution, frame rate, bit rate type settings is the same as main stream.

4.4.3 Network

Pic.4.15 Network setup

【**Net Card**】**:**You can choose cable network card or wireless network card.

【**DHCP Enable**】**:**Obtain IP address automatically (not suggested)

        Note：DHCP server is preinstalled.

【**IP address**】**:**Set the IP address. Default: 192.168.1.10.

【**Subnet mask**】**:**Set the subnet mask code. Default: 255.255.255.0.

【**Gateway**】**:**Set the default gateway. Default: 192.168.1.1.

【**DNS setup**】**:** Domain Name Server. It translates the domain name into IP address. The IP address is offered by network provider. The address must be set and reboot then it works.

【**Media port**】**:**Default: 34567.

【**HTTP port**】**:**Default: 80.

【**HS Download**】**:** HS Download

【**Transfer Policy**】**:**There are three strategies: self-adaption, image quality precedence and fluency precedence. The code stream will adjust according to the setup. Self-adaption is the tradeoff between the image quality precedence and fluency precedence. Fluency precedence and self-adaption are valid only when the assistant code stream is turned on. Otherwise image quality precedence is valid.

4.4.4 Net Service

    Choose the network service option and click the set button to configure the advanced network function or double click the service button to configure the parameters.
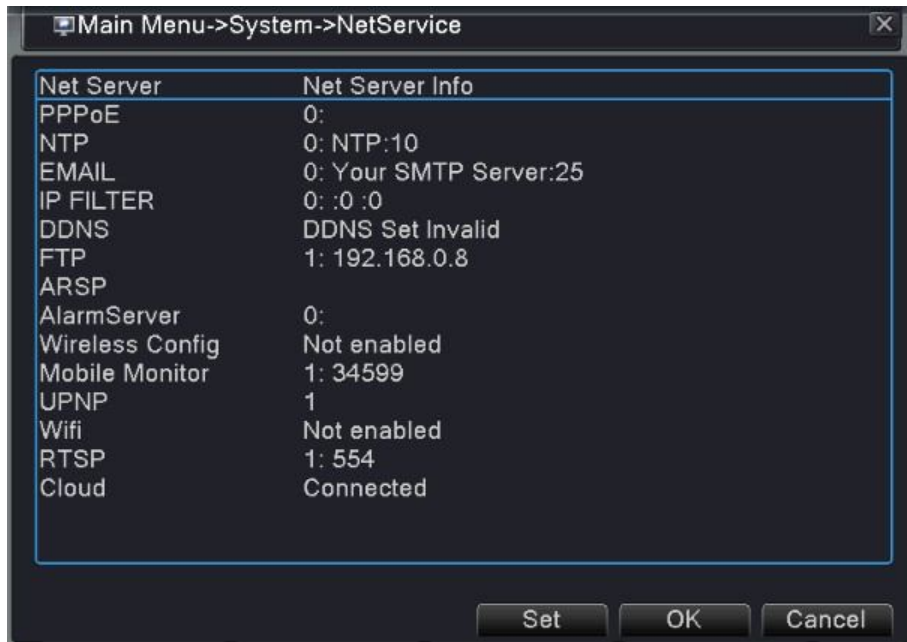
Pic.4.16 Net service setup

1. PPPOE setup
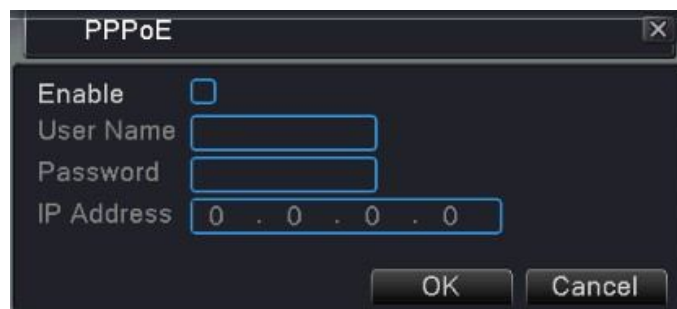
Pic.4.17 PPPOE setup

Tick enable, Input the user name and password that ISP（Internet service provider）provides. After saving it reboot your system, and then the DVR will build a network connection based on PPPOE. The IP address will change into dynamic IP address after above operation is well done.

Operation：After PPPOE dials successfully, please look up the IP address. Then use this IP address to visit the DVR through user port or browser.

2. NET Setup

Pic.4.18 NTP setup

【**Server IP**】：Enter the NTP server address.

【**Port**】:123. You can set the port according to NTP server.

【**Update Period**】：10 minutes Interval of adjusting same time as the NTP server.

3. Email Setup

    If the alarm occurs or the alarm linkage photos are taken, it will send an email to appointed address.

Pic.4.19 Email setup

【**SMTP server**】：For example, SMTP server address of 126 email is: smtp.126.com.

【**Port**】：Email server port number.

【**Need SSL**】：Decide whether using Secure Socket Layer protocol to login.

【**User Name**】：Input the applied user name of email server.

【**Password**】：Input the password corresponding to the user.

【**Sender**】：Set the email sender address.

【**Receiver**】：Send the email to appointed receivers when the alarm occurs. You can set three receivers at most,

and each receiver separate by ";".

【Title】：The subject of the message, you can set by yourself.

4. IP Filter

When choosing the white list, only the IP address in the list can connect the DVR. You can set 64 IP addresses in the list.

When choosing the black list, the IP address in the list cannot connect the DVR. You can set 64 IP addresses in the list.

You can delete the set IP address by "√ "in the options.

🖐 ***Notice****: When the IP address is in the white and black list at the same time, the black list precedence is higher*
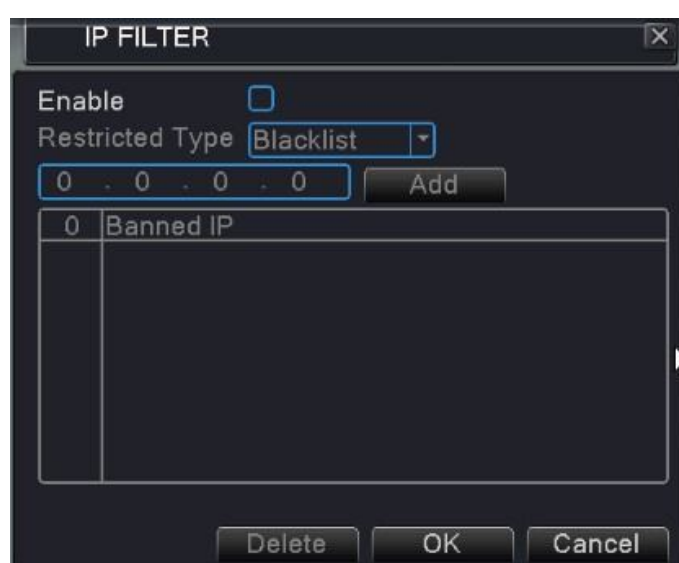
Pic.4.20 IP filter

5. DDNS

Pic.4.21 DDNS

【DDNS Type】: Choose DDNS supplier

【Domain name】：Input the domain name registered by DDNS.

【**User name**】：Input the account registered by DDNS.

【**Password**】：Input the password registered by DDNS.

When the DDNS is successfully configured and starts, you can input the domain name in the IE address column to visit.

☞ *Notice: The DNS setup must be configured correctly in the network setup*

6. FTP

FTP is used when alarm occurs, or alarm linkage to recording, snap pictures, you can upload videos and capture images to the specified FTP server.

Pic.4.22 FTP

【**Enable**】: Tick it to enable the FTP function.

【**Server IP**】: FTP server's IP address

【**Port**】: FTP port, default port 21.

【**User name**】: Permission to log FTP user name.

【**Password**】: User's password.

【**Max File Length**】: The max length of uploading file of each package, default is 128M.

【**Dir Name**】: Upload file directory.

7. ARSP

Pic.4.23 ARSP

【**Enable**】**:** Tick to enable the ARSP function.

【**Type**】**:** Default type is DNS

【**Server IP**】**:** IP address of DDNS server.

【**Port**】**:** Device service default port: 15000.

【**User name**】**:** Input ARSP server registered user name.

【**Password**】**:** Input user's password.

【**Update Period**】**:** Synchronize with ARSP server time, default: 1 minute.

8. Alarm Server
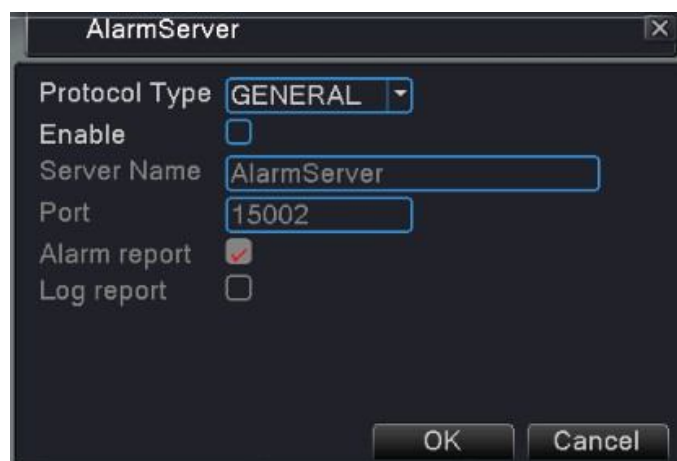
Pic.4.24 Alarm

【**Enable**】: Tick it to enable the alarm server function.

【**Protocol Type**】**:** Set default alarm protocol type to be GENERAL.

【**Server Name**】**:** Set alarm server domain name.

【**Port**】**:** Set port number.

【**Alarm report**】**:** Tick it means this function can send alarm information to alarm server.

【**Log report**】**:** Tick it means this function can send alarm log to alarm server.

9. Wireless config

Dial-up through 3G card to access Internet and realize the client access device and configure device

Pic.4.25 Wireless config

【**Enable**】**:** Tick it to enable the Wireless function.

【**Type**】**:** Dial type, the default EVDO.

【**Wireless AP**】**:** 3G access point, the default OK.

【**Dial Number**】**:** 3G dial-up number, the default OK

【**User Name**】**:** Dialed-up 3G User Name.

【**Password**】**:** Dialed-up user's password.

【**IP Address**】**:** IP address obtained by Dialed-up

10. Mobile Monitor

Accessing through mobile phone needs to map the port on Router. Monitoring and operating DVR through protocol.

Pic.4.26 Mobile monitor

【**Enable**】**:** Tick it to enable the Mobile phone function.

【Port】: Port for mobile phone view, needs mapping the port on Router.

11. UPNP

UPNP protocol will be auto port forwarding on the Router, before using it, make sure UPNP feature is enabled on the router.

Pic.4.27 UPNP

【Enable】: Tick it to enable the UPNP.

【HTTP port】: Router will distribute Http port for DVR automatically, when view from IE, need this port.

【TCP port】: Router will distribute TCP port for DVR automatically, when view from CMS, need this port.

【Mobile Port】: Router will distribute port for DVR automatically, when mobile monitor, need this port.

12. Wi-Fi

Connect to wireless router by wireless module. View the device via IP address under the condition that DVR has been connected to WIFI module.
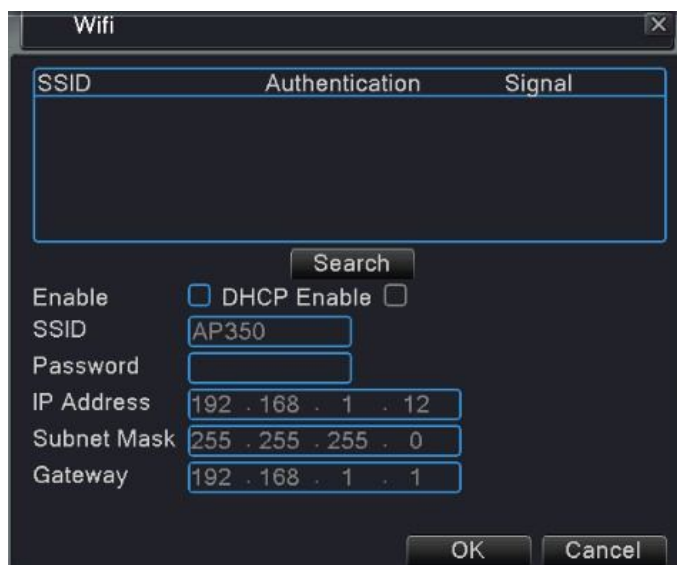
Pic.4.28 Wi-Fi

【Search】: Click "search" button to get available wireless network.

【**Enable**】**:** Tick it to enable the Wi-Fi function

【**SSID**】**:** Name of wireless LAN automatically fitted the connected wireless device

【**Password**】**:** Wireless network password
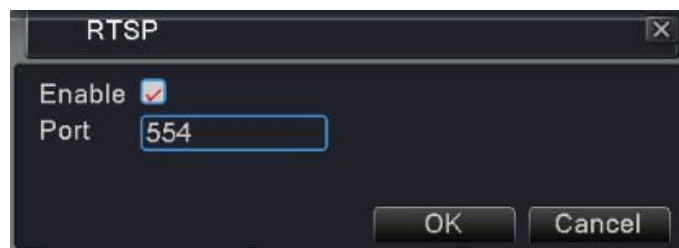
【**IP address**】**:** Set the IP address. Default: 192.168.1.10.

【**Subnet mask**】**:** Set the subnet mask code. Default: 255.255.255.0.

【**Gateway**】**:** Set the default gateway. Default: 192.168.1.1.

13. RTSP protocol

Monitor via cross-browser (Safari, Firefox, and Chrome) and VLC software, this function only can view, cannot control the device

Pic.4.29 RTSP

【**Enable**】**:** Tick it to enable the RTSP function.
【**Port**】**:** Set RTSP server port number, default is 554

4.4.5 GUI Display

Configure the output parameters, including front output mode and encode output mode.

Front output mode: the local preview mode including channel name, time, title, record status, alarm status, transparency and region cover.

Encode output mode: network surveillance and video file mode including channel name, time, title, record status, alarm status, region cover.
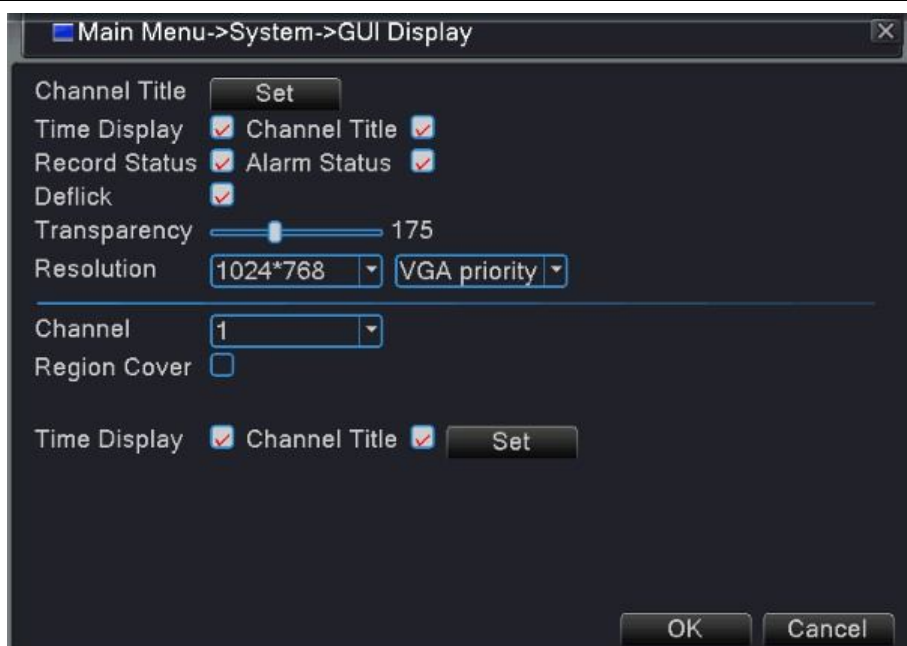
Pic.4.30 GUI Display

【**Channel Title**】:You can set the channel name you want. The 16 Chinese characters and 25 letters are supportive.

【**Time Display**】:Tick it means time will show on the monitor channel

【**Channel display**】: Tick it means channel number will show on the monitor channel

【**Record Status**】:Tick it means the record status will show on the monitor channel

【**Alarm Status**】: Tick it means the alarm status will show on the monitor channel

【**Transparency**】:Set the background image transparency. The range is 128~255.

【**Resolution**】:Set display resolution.

【**Channel**】:Choose the set code output channel number.

【**Region Cover**】: You can select the area to blind. Tick it to enable, and click set button to enter the corresponding channel window, you can choose the blind area by mouse (the video output is black of the covered region)

【**Time display**】: Set the display position of channel title and time title.

4.4.6 PTZ Configuration

When system is under hybrid mode/DVR mode, it shows with PTZ device and RS485 device
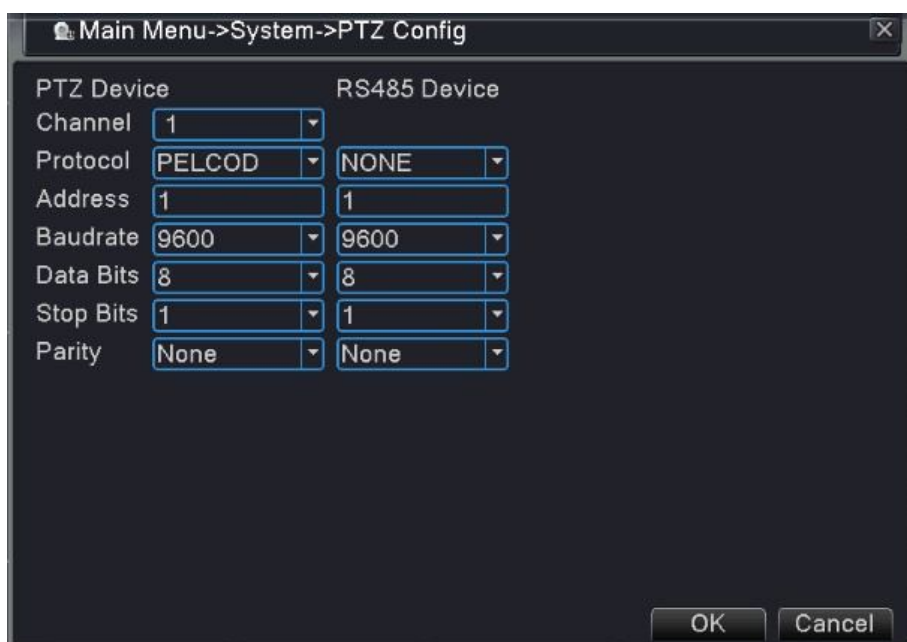
Pic.4.31 PTZ configuration

【Channel】: Choose the High speed dome camera input channel.

【Protocol】: Choose the corresponding dome protocol. (PELCOD as an example)

【Address】:Set as the corresponding dome address. Default: 1. （The address must be consistent with the dome address.）
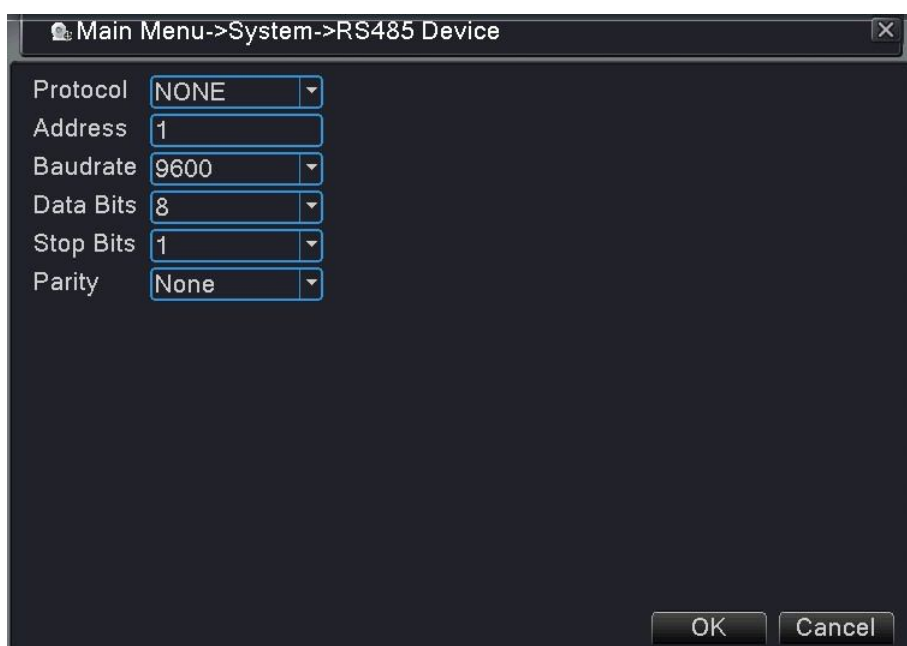
【Baud rate】: Choose the corresponding dome baud rate length. You can control the PTZ and vidicion. Default: 115200.

【Data bits】:Include 5-8 options. Default: 8.

【Stop bits】:Include 2 options. Default: 1.

【Parity】:Include odd check, even check, sign check, blank check. Default: void.

When system is under NVR mode, it shows RS485 device

Pic.4.32 RS485

【**Protocol**】:choose related protocol of brand model(for example: DaHua)；

【**Address**】:set with corresponding address, default is 1；

【**Baud rate**】: choose bard rate that related device use, default is 115200；

【**Data bits**】: including 5-8 options， default is 8；

【**Stop bits**】: including 2 options, default is 1；

【**Parity**】: Include odd check, even check, sign check, blank check. Default: void.


4.4.7 RS232
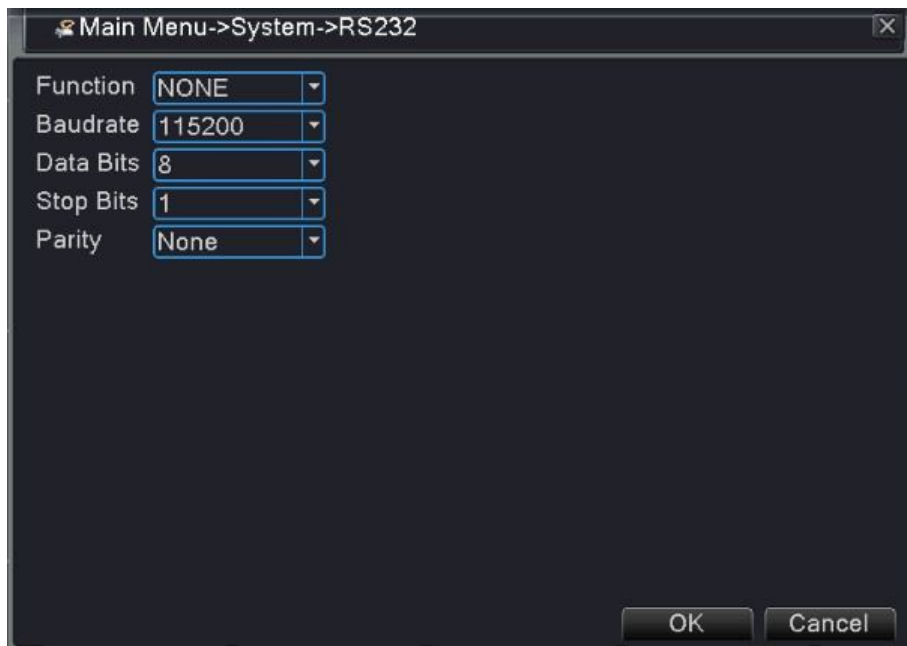
Pic.4.33 Rs232

【**Serial Port Function**】:Common serial port is used to debug and update program or set up specific serial port.

【**Baud rate**】:Choose the corresponding baud rate length.

【**Data bits**】:Include 5-8 options.

【**Stop bits**】:Include 2 options.

【**Parity**】:Include odd, even, mark, space, default is none.

4.4.8 Tour

　　Set the patrol display. Tick it to enable tour function. You can choose the single-view,four-view, six-view of single mode tour or hybrid mode tour.
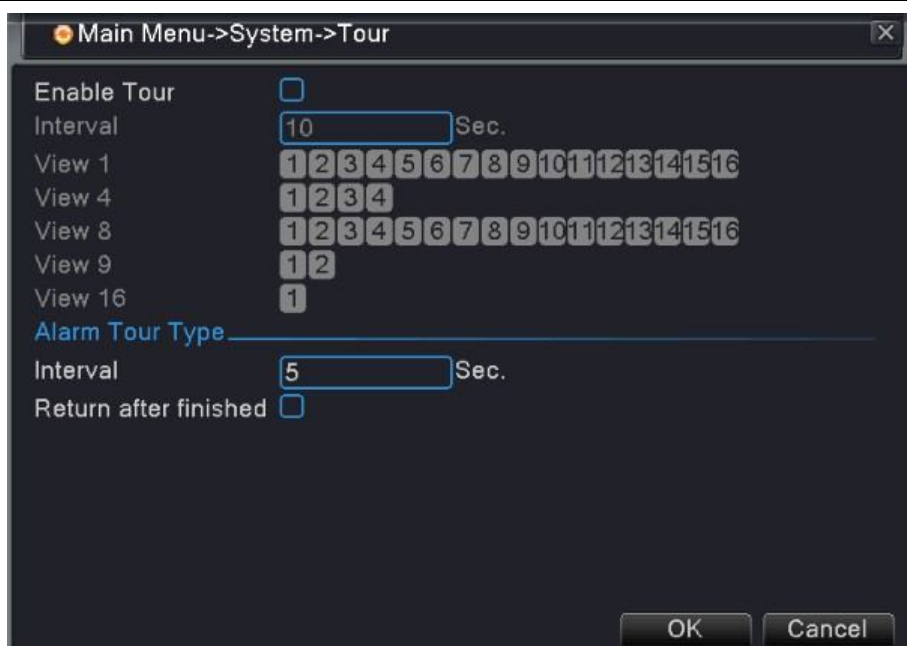
Pic.4.34 Tour

【interval】:Set the patrol switch interval. The set range is 5-120 seconds.
【alarm tour】:Set the interval to shift alarm tour, range is 5-120 seconds, choose return when alarm ends, when alarm link to tour, system will auto shift to six-view after alarm finished.
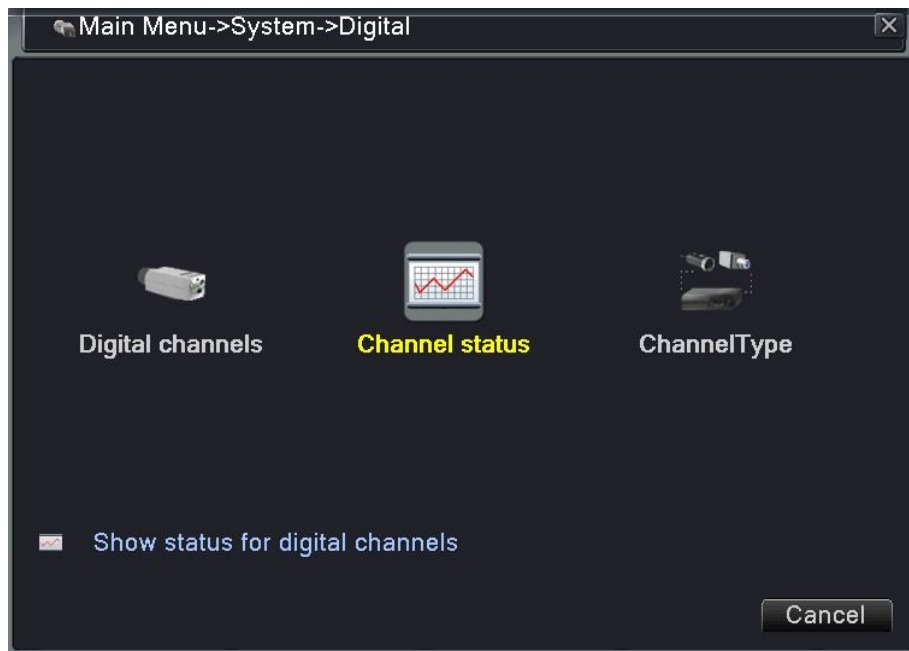
【interval】:Set the patrol switch interval. The set range is 5-120 seconds.
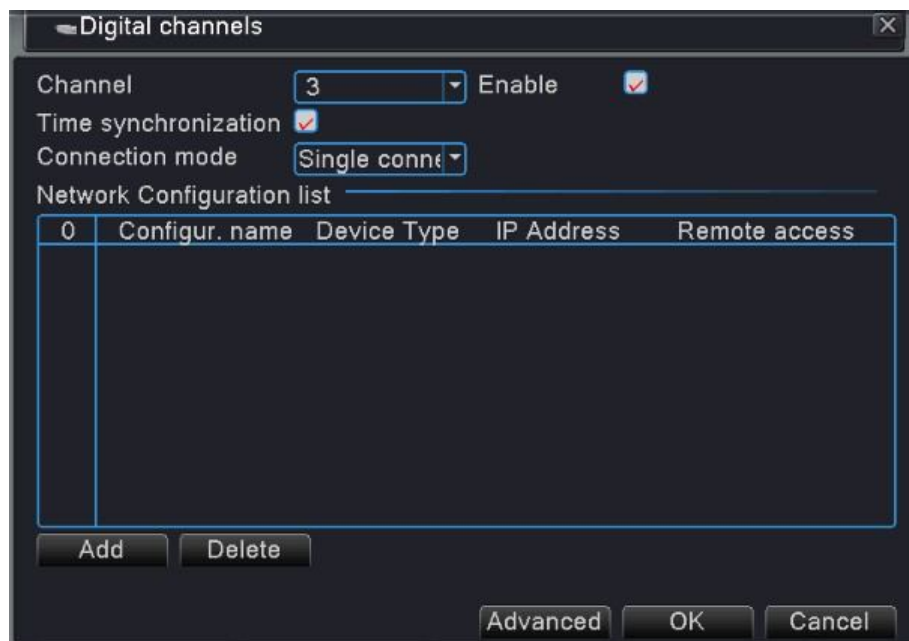
4.4.9 Digital (Channel type management)

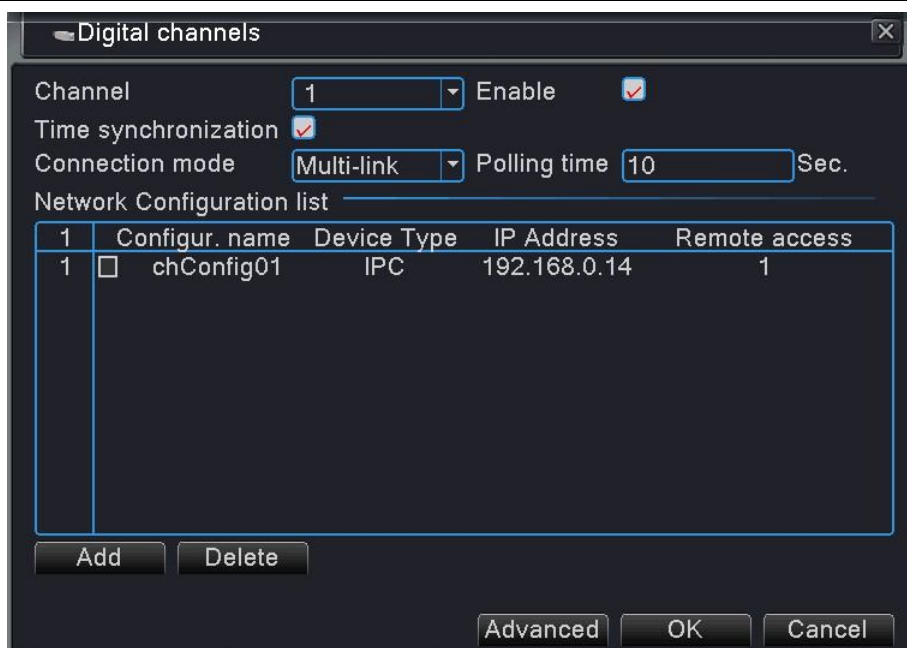Digital management including digital channel, channel status, and channel mode

Pic.4.35 Channel management page under DVR mode

Pic.4.36 Channel management page under Hybrid/NVR mode

Digital model:

Pic.4.37 Single link page of digital channel

Pic.4.38 Multi-link page of digital channel

【**Channel**】**:**Select channel title

【**Enable**】**:**Open digital channel, tick enable, then can do related settings

【**Time Synchronization**】**:**Tick it means the time of this channel and device is the same.

【**Connection Mode**】**:**Can be singe connect or multi-ink, multi-link modes can connect with several devices, device will be tour displayed one by one, tour interval can be set, no less then 10s;

【**Delete**】**:**If the user wants to change device, select the existing device, click delete will be ok.

【**Add**】**:**Click add button will come out below page to add new device
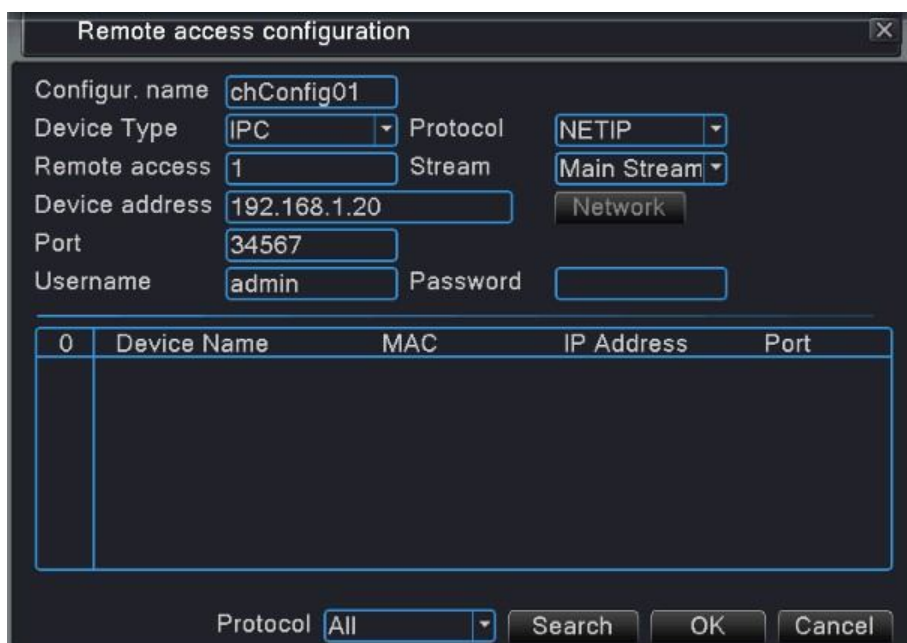
Pic.4.39 Remote channel configuration

【**Configure Name**】**:**device is with default configure title, user can revise it if necessary；

【**Device Type**】**:**3 types: IPC、DVR、HVR，user can choose it, default is IPC；

【**Protocol**】**:**Default is TCP

【**Remote channel**】**:**User can input remote channel title from the device that you want to connect remotely

【**Stream**】**:**Default is main stream, do not support extra-stream at present；

【**Device address**】**:**IP address of device.

【**Port**】**:**Default is 34567

【**User name**】**:**Default is admin

Click search button will show all the devices that searched out, user can choose any of the devices that you like.

Pic.4.40 the device list searched under remote channel setting

Channel Status:

Channel status is to show the status of all the digital channels when there is what existing, status including Max Resolution, This Resolution, and Connection Status.

For example: The channel status for 4+2 mode is as below:

Pic.4.41

When a channel is added with device but it is not enable, you will see as below:
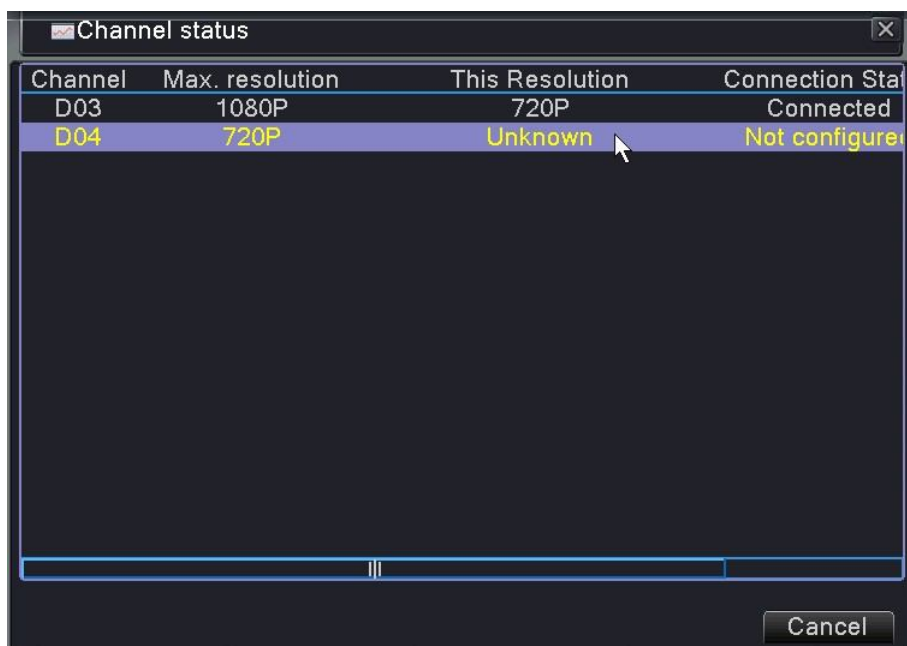
Pic.4.42

Channel status interface under full digital (NVR) mode (One of the channel without device):
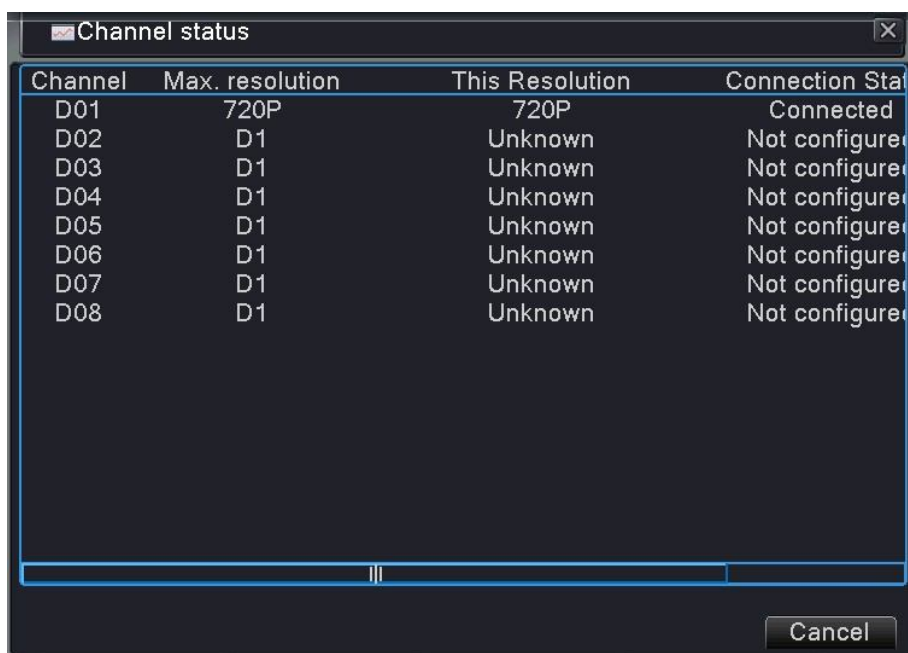
Pic.4.43

When the current resolution is over the max resolution that the channel supported, then a red "X" will be shown on the preview image, for example: Under full digital channel mode, Max resolution of channel 3 is D1, if it was connected to a device with resolution over D1 (such as 960H), you will see below pic:

Pic.4.44

Channel mode:

All channel modes will show here, including HVR, DVR, and NVR. User can change the mode according to their demands
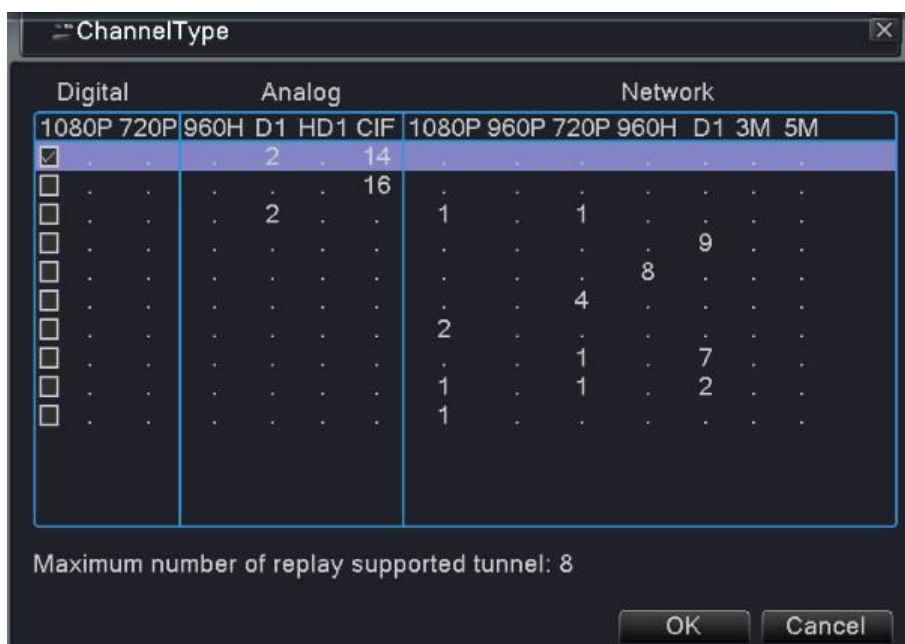
Pic.4.45

4.5 Advanced

Management tools including: HDD Manage, Account, Online User, Output Adjust, Auto Maintain, Restore, Upgrade, Device info. Import/Export.

4.5.1 HDD Manage

Configure and manage the hard disk. The menu displays current hard disk information: hard disk number, input port, type, status and overall capability.

The operation include: setup the write-read disk, read-only disk, redundant disk, hard disk format, resume default. Choose the hard disk and click the right function button to execute.
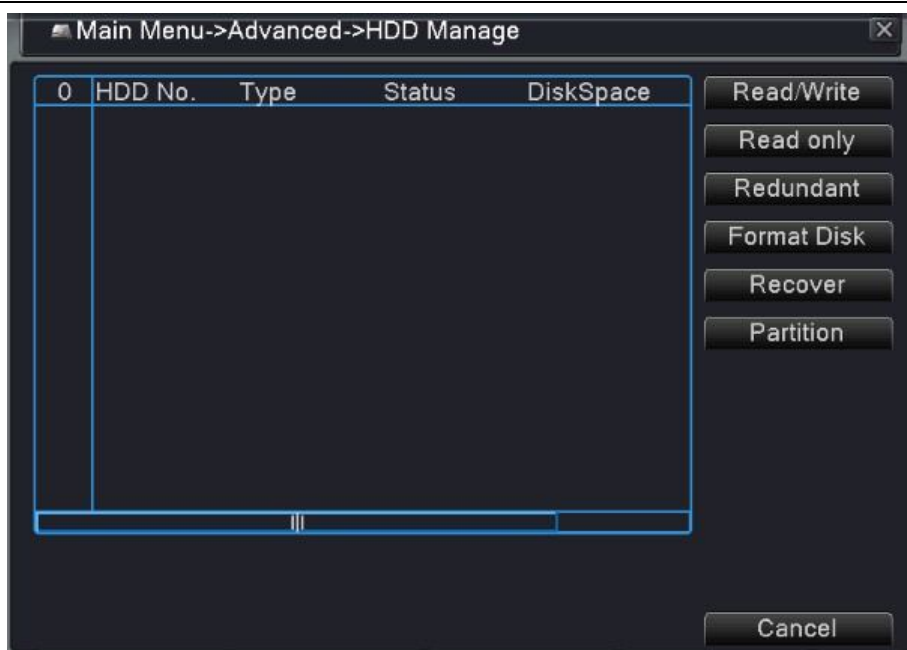
Pic.4.46 HDD Manage

4.5.2 Account

Manage the user authority.

🖑 ***Notice***: *1. the character length is 8 bytes at most for the following user and the group name. The blank ahead or behind the character string is invalid; the middle blank in the character string is valid.*
Legal characters include: letter, number, underline, subtraction sign, and dot.

2. There is no quantity limit in the user and group. You can add or delete the group according to user definition. The default setting include: user/admin. You can set the team as you wish. Can appoint the function authority of the group for the users.

3. The user management include: team/user. The group and the user name cannot be same. Each user only belongs to one group.
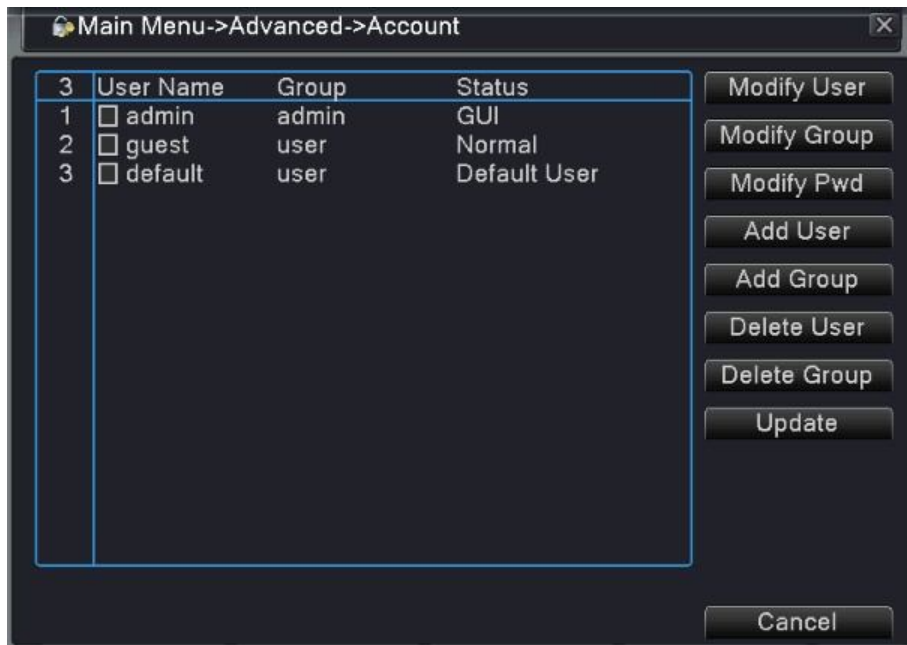
Pic.4.47 user management

【**Modify user**】**:** Modify the existed user attribute.

【**Modify group**】**:** Modify the existed team attribute.

【**Modify password**】**:** Modify the user password. You can set 1-6 bit password. The blank at the ahead or bend of the character string is invalid. The middle blank in the character string is valid.

☞ *Notice: The user who possess the user control authority can modify his/her own or other users' password*

【**Add user**】**:** Add a user in the team and set the user authority. Enter the menu interface and input the user name and password. Choose the team and choose whether cover using, Cover using means that the account can be used by multiple users at the same time.

Once choose the team the user authority is the subclass of the team.

We recommend that the common user's authority is lower than the advanced user.

Pic.4.48 Add user

【**Add group**】**:** Add a user Group and set the authority. There are 52 different kinds of authority: shut down the equipment, real time surveillance, playback, recording setup, video file backup and so on.
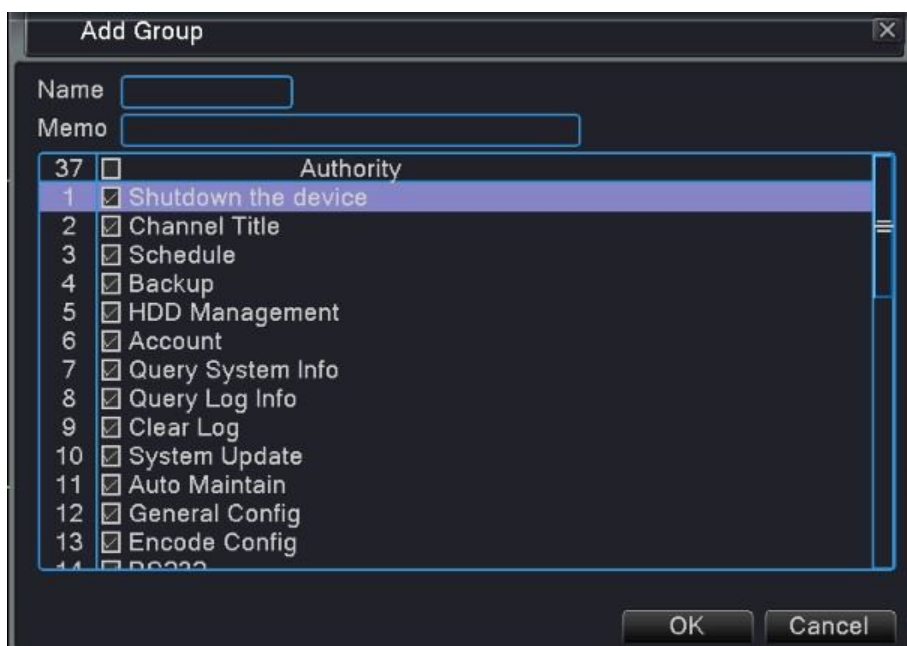
Pic.4.49 Add group

【**Delete user**】**:** Delete the current user. Choose the user which needs to be deleted. (The default user cannot delete).

【**Delete Group**】**:** Delete the current team (ensure that there is no user in the team). In Picture 5.7.8-1 click the delete team button in Picture 5.8-1, select the needed to remove the team, click the delete button.

4.5.3 Online User

Check the information of network user that connect with local device, also can tick the selected user to break up connection,（mark √ at the box）,then the user will be frozen after connection stopped, and will not log in until device reboot.
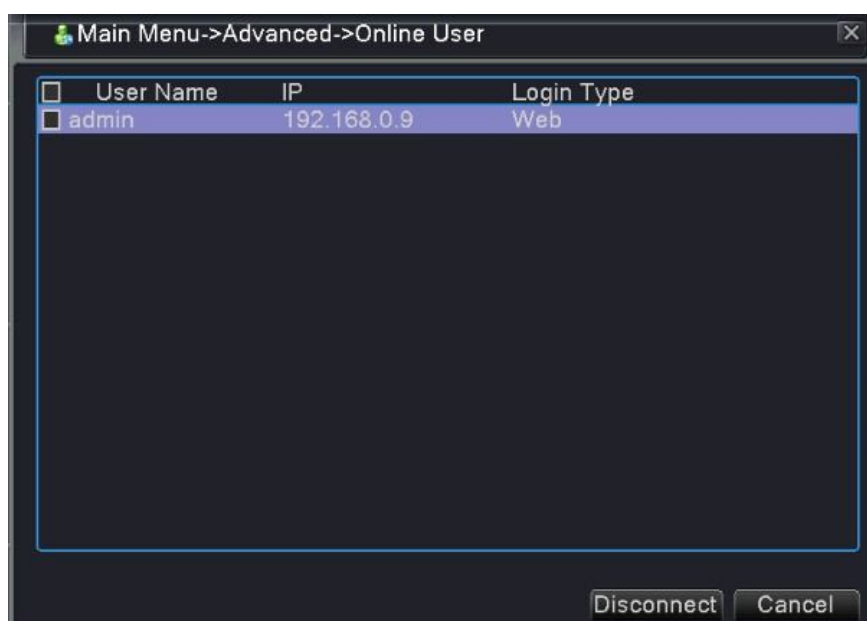
Pic.4.50 Online user

4.5.4 Output Adjust (Please refer to chapter 3.4.4)

4.5.5 Auto Maintain

Users can set the time to reboot and delete the files automatically.
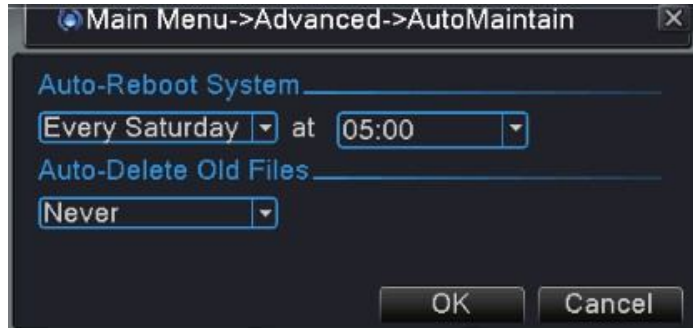
Pic.4.51 Auto maintain

4.5.6 Restore

The system restores to the default settings. You can choose the items according to the menu.
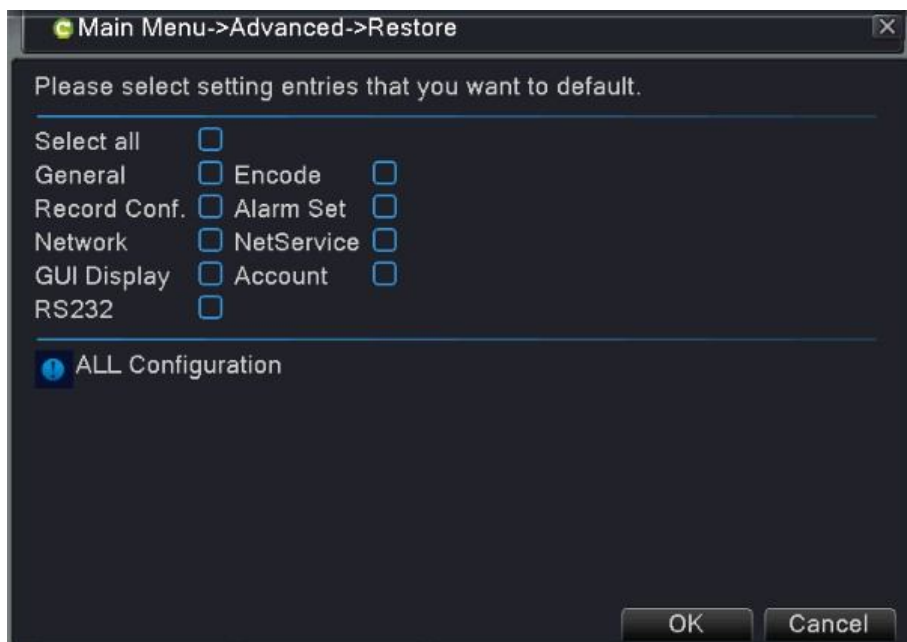
Pic.4.52 Restore to default

4.5.7 Upgrade

Upgrade DVR software system
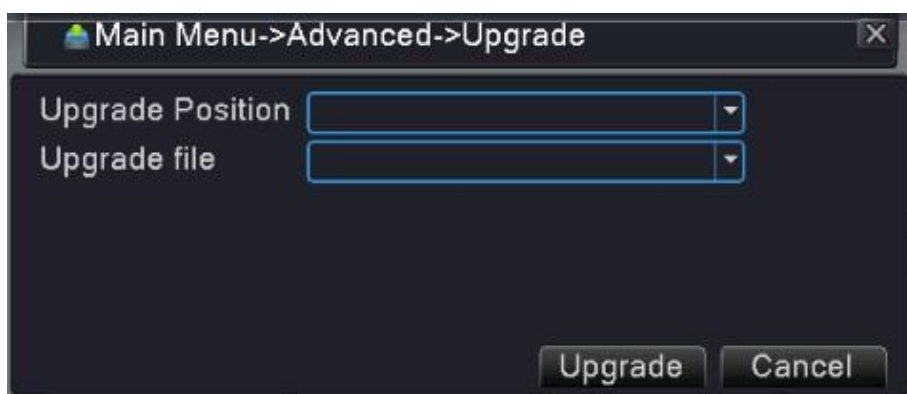
Pic.4.53 Upgrade

【**Upgrade**】**:** Choose USB interface.
【**Upgrade file**】**:** Choose the file which needs to be upgraded

4.5.8 Device Info.

Provide device interface information like audio in, alarm in/out to be conveniently used for user.

Pic.4.54 Device information

4.5.9 Import/Export

Users can export the log info and the configure file from device to connected flash stick, and also can import related configure file from flash stick to settings, which greatly bring convenience to the customers
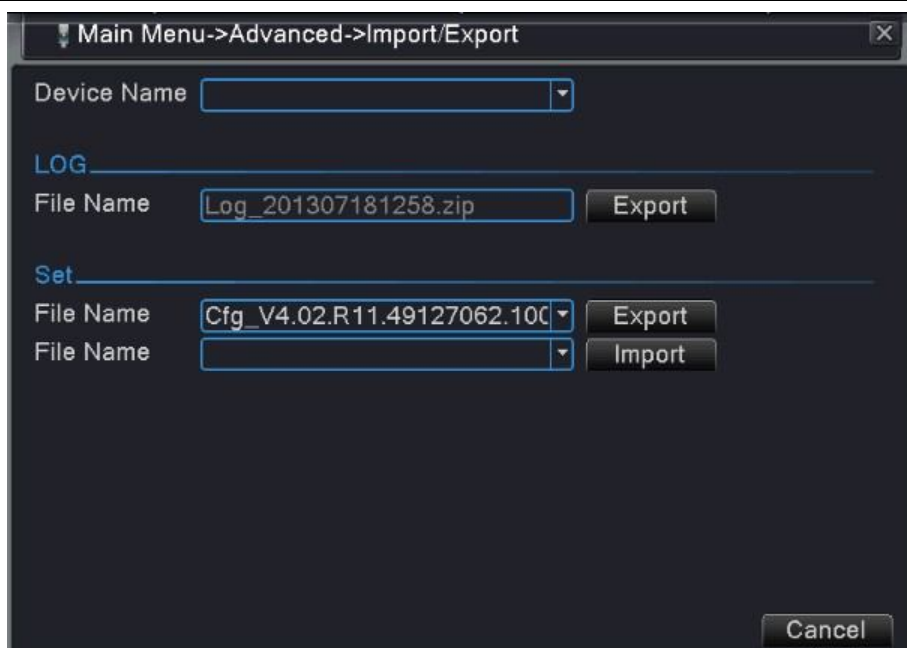
Pic.4.55 Import/Export

4.6 System information

Display the hard disk information, including HDD info, code stream statistic, log info, version info

4.6.1 HDD information

Display the hard disk state: hard disk type, overall capability, residual capability, and the recording time and so on.
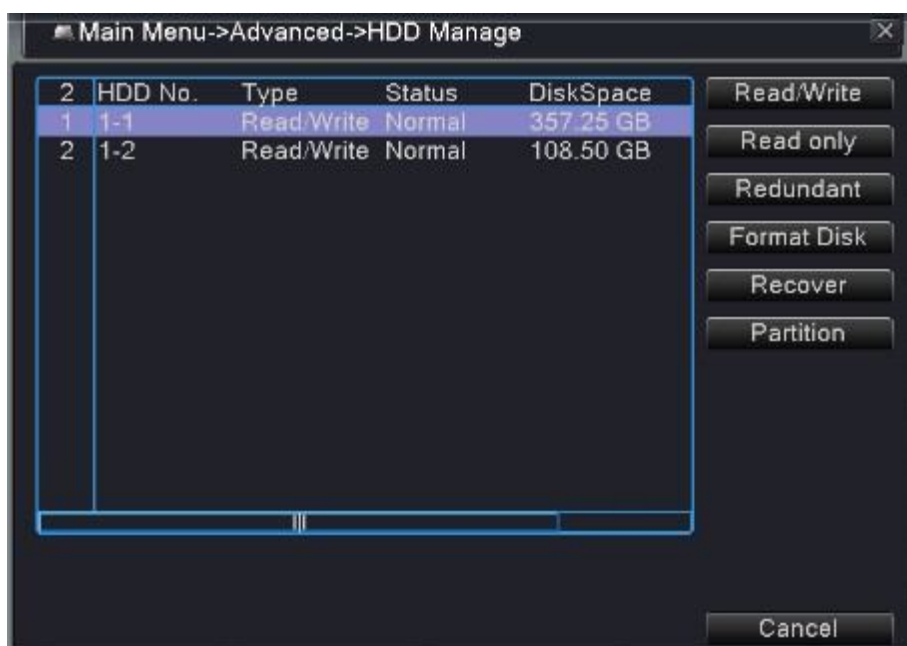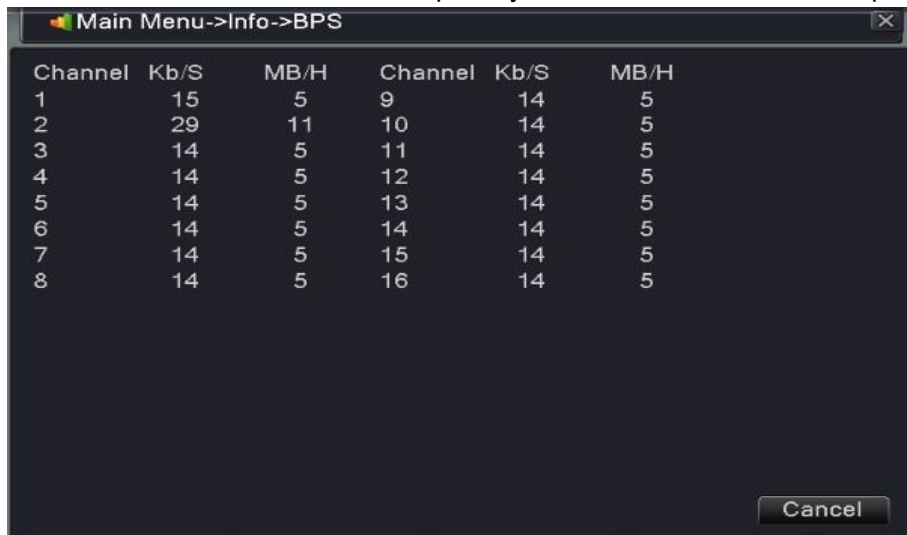
Pic.4.56 HDD information

○ means the hard disk is normal, X means the hard disk is broken-down,   − means there is no hard disk. If the user needs to change the damaged hard disk, you must shut down DVR first.

* Behind serial number means the current working disk such as 1*. If the corresponding disk is damaged, the information will show "？".

4.6.2 BPS

Display the code stream（Kb/S）and hard disk capability （MB/H）in real time. It displays as the wave map.

Pic.4.57 BPS

4.6.3 LOG

Search log information base on the set search mode.
Log information include: system operation, configuration operation, data management, alarm affair, recording operation, user management, and file management and so on. Set the time section to look up and click the look up button. The log information will display as a list. (one page is 128 items) Press **Page up** or **Page down** button to look up and press **delete** button to clear all the log information.
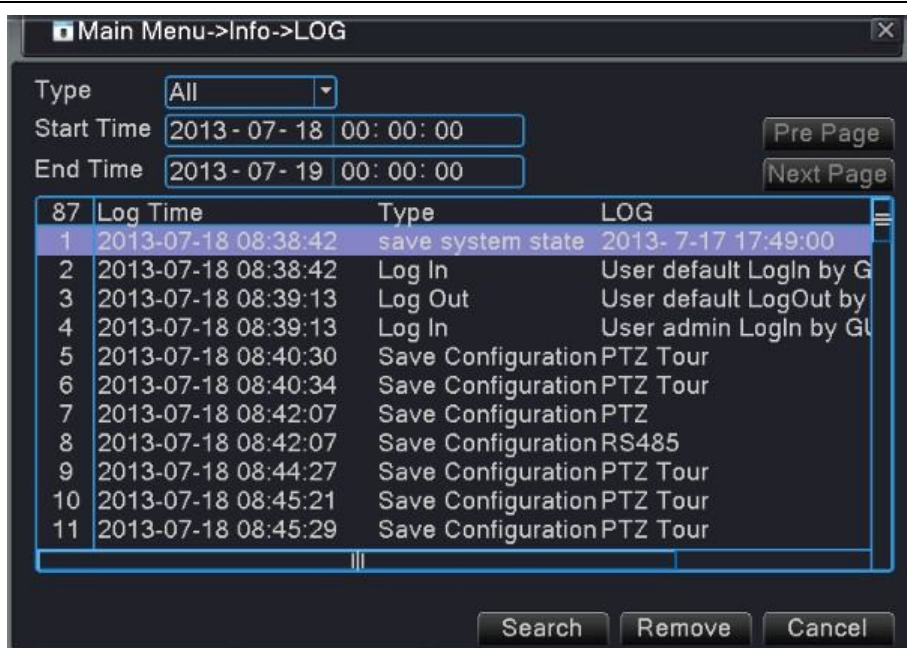
Pic.4.58 Log information

4.6.4 Version

Display the basic information such as hardware information, software version, issue date, serial number, NAT status and so on.

Pic.4.59 Version

4.7 Logout (Please refer to chapter 3.4.7)

Chapter 5-Network access settings and cloud technology introduction

5.1 LAN access settings

5.1.1. Network connection

1. Before the WEB operation, need to connect this device with the network.

2.Enter DVR "main menu" →"system" → "network" to set correct IP address, subnet mask ,DNS and gateway port, default is ok (the IP segment of the device should be the same with that on PC computer, if disconnected, please check device IP was successfully connected .)

5.1.2. Login

Step 1: After connecting successfully, you can login to view.

Open a web browser input the IP address of the login device in the address bar. For example the device IP address is 192.168.1.10; HTTP port is 80. Then input http://192.168.1.10 in the address bar and connect. If HTTP port is not 80, such as 81, then need to add port when viewing, as: http://192.168.1.10:81

If the PC connects the device at first time, when open system, the security warning will pop up whether to accept the WEB control web, please choose to accept the user, the system will automatically identify the installation. (If the system is prohibited to download, please confirm whether you have other prohibited controls to download plug-ins, and reduce the IE security level, permit unsigned plug-in to operate. The following interface will pop up after successfully connected.

Pic.5.1 WEB Login interface

Step 2: Login. Enter the user name and password, the administrator user name of factory default is admin, password is blank. After login, please promptly modify the administrator password.

Login is successful, display the interface as shown below.
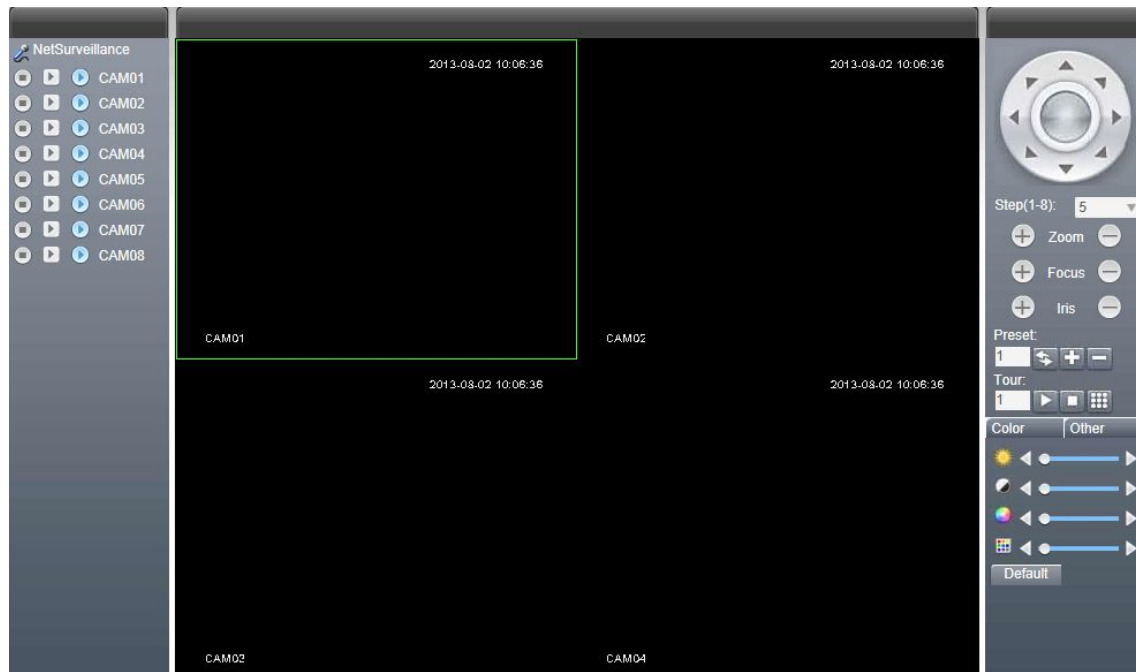
Pic.5.2 WEB control interface

5.2 Cloud technology functions and using introduction

Cloud technology is the latest network remote access technology; Using cloud technology, you don't need to set the complex network settings to achieve remote access easily.

🖑 *Notice: Some of the models don't have this function, according to the real products*

Before using cloud technology, Make sure your device connect to WAN successfully. You can check the connection status of cloud technology from version submenu.
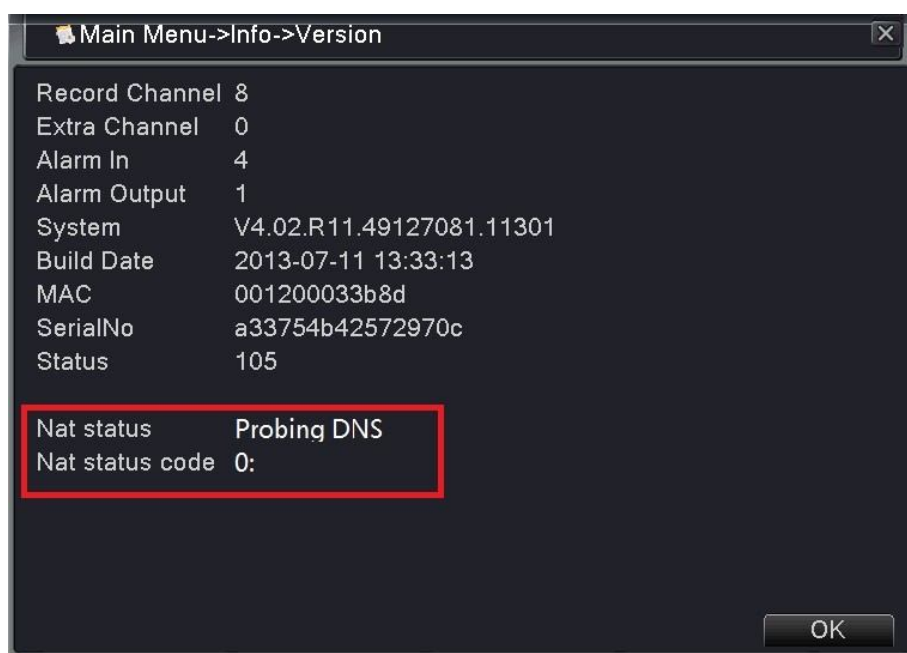
Pic.5.3 Connect failed interface
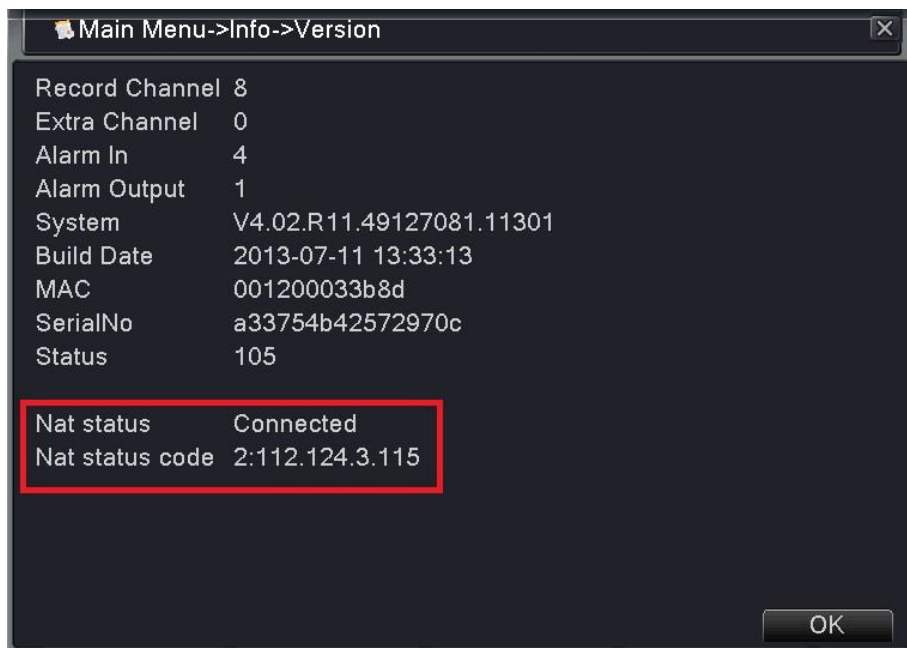
Pic.5.4 Connect successfully interface

Open web browser, enter cloud access website: www.dvrcenter.net . Login interface as picture 5.5:

Pic.5.5 login

There are two ways to remote control the device with cloud technology: By device serial No. and By User

5.2.1. Login by Device serial no.

Input Serial No. of DVR and verify code can do remote access (way to get Serial No: "main menu" →"info" →"version")

5.2.2. Login by User

Customers use their registered user name and password to log in (first time use need to register). After login, needs to add the device (enter "device management" page can finish adding device); after finish adding device, the added device will appear in the left column of "my devices". Click on the current equipment for preview, playback, configuration and operation
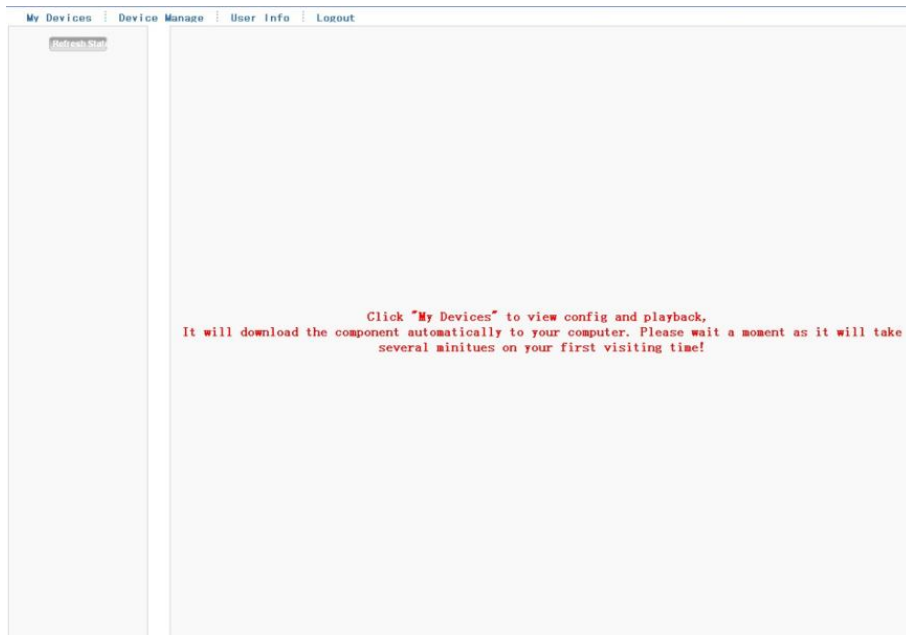
Pic.5.6 Remote operation

5.3 Client CMS software operation

CMS software is used on the same PC, support control multiple DVRs at the same time.

Please take out the CD-ROM in the accessories, copy the CMS installation software in the CD-ROM After installation on the local PC, double click the "CMS", open the control interface appears in Picture 5.7, default without password, the client can set the login password **(Note: The password is password of CMS client, non-DVR login password)**.
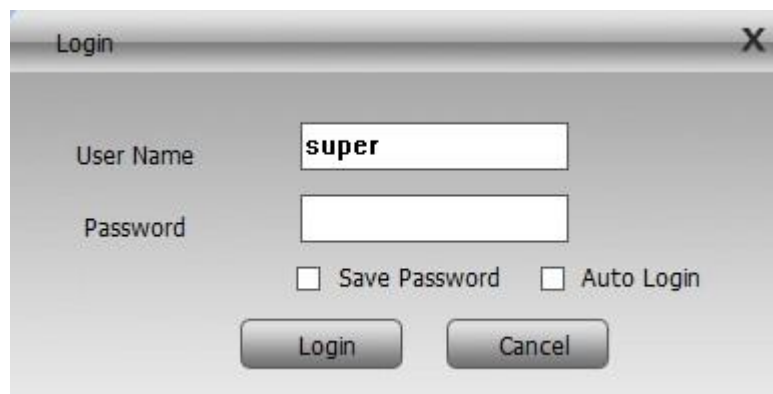
Pic.5.7 CMS login

After enter into CMS interface, shown in Picture 5.8:
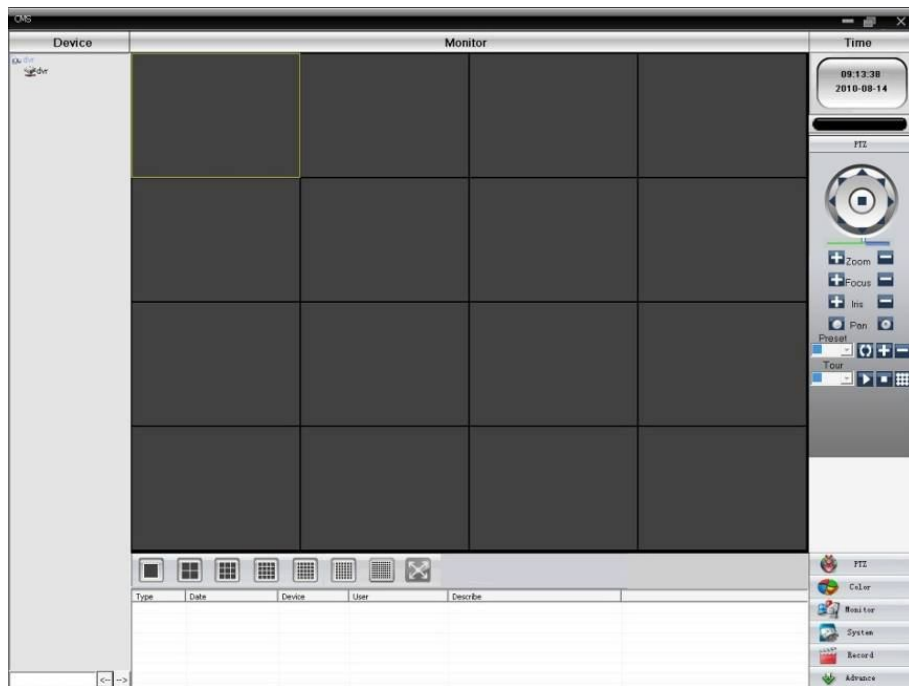
Pic.5.8 CMS control interface

Click the right corner of "System" settings, switch to the control of management options as below:

Pic.5.9 manage

First click ![icon] to add a domain, region name are free to take, after determining the list of selected regional areas to create a domain name, select ![icon] add device as shown below:

Pic.5.10 edit

As the follow prompts to input required information of the DVR device, confirmed and added successful, repeat the above operation, can add multiple DVR equipments, management and monitoring operations.

If you want to modify the equipments which have been added before, selected the needed DVR at first, then click the ✏ icon to modify the parameters, but also can delete the DVRs which have been added on the regional list through click 🗑 deletion.

After completed these steps to add DVR, click the label at the right corner for real-time monitoring, switch to multi-monitor screen interface, double-click the top left column of the DVR channel device can carry out real-time monitoring.
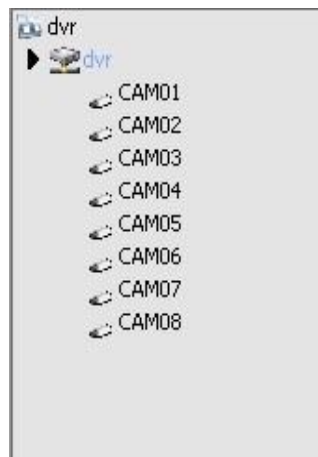
Pic.5.11 device

5.4 Mobile Phone Monitoring

This device supports the user to use the phone for remote video surveillance operation. Use extra stream technology to do mobile phone monitoring. Support channel switching and multi-channel monitoring simultaneously.(Android phone system as an example).

Step 1: DVR settings. The "main menu"➔"record", enable extra stream;

Step 2: Install the matching mobile phone monitoring software. Obtain corresponding client software from the optical disc (the client software of Android smart phone is vMEyeCloud.apk) and install it on the phone；

Step 3: After successful installation, find and run the corresponding client software from "start"➔"program" of the mobile phone (it is vMEyeCloud on Android mobile phone), as picture 5.12;

By user   By Device

Pic.5.12 Mobile client interface 1

Step 4: click the device list on picture 5.12, Add device, enter device name, serial No., user name, password.
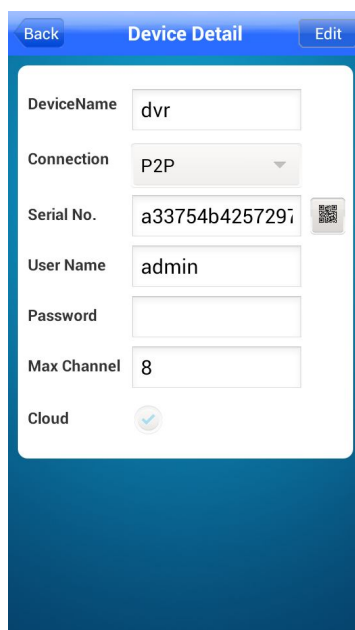
By Device Serial No.

Pic.5.13 Mobile client interface 2

Device Name: Set by user;

User name: Input user name to login DVR;

Password: Input password to login DVR;

Server: IP address of DVR;

Port: default port is 34567;

Click OK after finish adding, shown below. Choose the channel which needs to be monitored, preview screen will display properly.
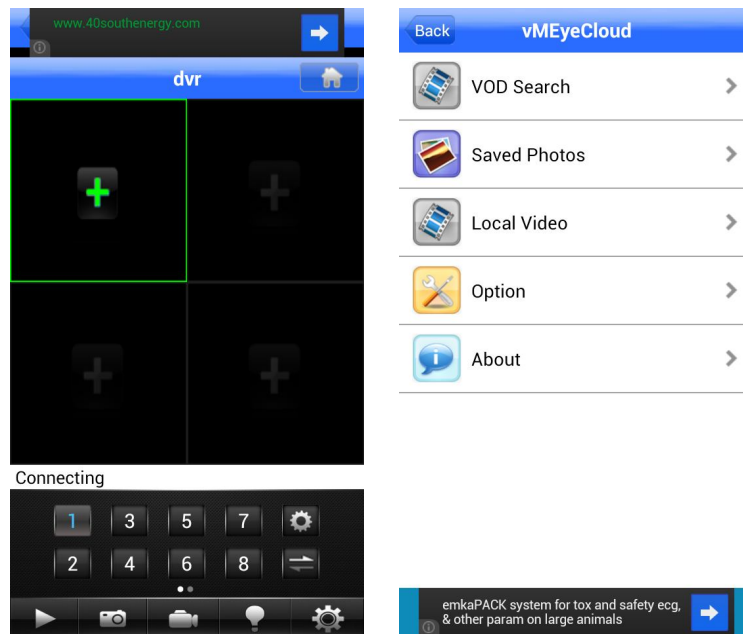
Display screen   setting interface

Pic.5.14 Mobile client interface 2

Note: If the DVR is in LAN when monitoring, the mobile phone needs to connect wireless router to access the device;

The corresponding client software for different mobile phone system is shown as below (please refer auxiliary software in the optical disk because of different version):

Mobile phone client of the third version of Symbian S60 is: vMEYE_SB_S60_3rd.sisx

Mobile phone client of the fifth version of Symbian S60 is: vMEYE_SB_S60_5rd.sisx

Mobile phone client of Android system is: vMEyeCloud.apk

Mobile phone client of Blackberry system is: vMEYE_RIM.cod

Mobile phone client of Apple system is: vMEye (please search and install in Appstore)

Note: Mobile phone monitoring software can also support cloud technology access.

Chapter 6-FAQ and Maintenance

6.1 FAQ

1. System cannot detect hard disk

Possible reasons are as follows:

(1)The hard disk power supply line is not well connected.

(2)The cables of the hard disk are damaged.

(3)The hard disk is damaged.

(4)The SATA port of main board is damaged.

2 There are no video outputs in single channel, multiple channels and all channels.

Possible reasons are as follows:

(1)The program is not matched. Please update the program.

(2)The image brightness is all 0. Please resume the default setup.

(3)There is no video input signal or the signal is too weak.

(4)The channel protection or the screen protection is set.

(5)The hardware of the DVR is damaged.

3. Real-time image problems such as the image color or the brightness distortion.

Possible reasons are as follows:

(1)When using the BNC output, the option between the NTSC mode or PAL mode is wrong and the image becomes black and white.

(2)The DVR is not matched with the monitor impedance.

(3)The video transmission distance is too far or the loss of the video transmission line is too large.

(4)The color and brightness setting of the DVR is wrong.

4. I cannot find the video files in local playback mode.

Possible reasons are as follows:

(1)The data line of the hard disk is damaged.

(2)The hard disk is damaged.

(3)Update the different program with the origin program files.

(4)The video files to search are covered, or search time is wrong, please refer to the device display time.

(5)The recording stopped.

5 The local playback video is not clear.

Possible reasons are as follows:

(1)The recoding image quality is too bad.

(2)The reading program is wrong. Reboot up the DVR.

(3)The data line of the hard disk is damaged.

(4)The hard disk is damaged.

(5)The hardware of the DVR is damaged.

6 There is no audio signal in the surveillance window.

Possible reasons are as follows:

(1)It is not an active tone arm.

(2)It is not an active sound box.

(3)The audio lines are damaged.

(4)The hardware of the DVR is damaged.

7. There is audio signal in the surveillance window but mo audio signal in the playback state.

Possible reasons are as follows:

(1)Setting issues: the audio option is not chosen.

(2)The according channel is not connected with the video.

8. The time is wrong

Possible reasons are as follows:

(1)Setting is wrong.

(2)The battery is in bad connection or the voltage is too low.

(3)The oscillation is damaged.

9. The DVR cannot control the PTZ.

Possible reasons are as follows:

(1)There is something wrong with the frontal PTZ.

(2)The setting, connection or the installation of the PTZ decoder is not correct.

(3)The connections are not correct.

(4)The PTZ setting of the DVR is not correct.

(5)The protocols of the PTZ decoder and the DVR are not matched.

(6)The address of the PTZ decoder and the DVR are not matched.

(7)When multiple decoders are connected, the far port of the PTZ decoder line A (B) must connect a 120Ω resistance to reduce the reflection otherwise the PTZ control is not stable.

(8)The distance is too far.

10. The motion detect is not working

Possible reasons are as follows:

(1)The time range set is not correct.

(2)The motion detect area set is not correct.

(3)The sensitivity is too low.

(4)Limited by some hardware edition.

11 I cannot login via web.

Possible reasons are as follows:

(1)The system is windows 98 or windows me. We recommend updating to windows 2000sp4 or higher edition or installing the software for low edition.

(2)ActiveX is hold back.

(3)The edition is not exceeded dx8.1. Update the display card driver.

(4)Network connection failure.

(5)Network setting issues.

(6)Invalid password or user name.

(7)The user edition is not matched the DVR program edition.

12 The image is not clear or there is no image in network preview state or video file playback state.

Possible reasons are as follows:

(1)Network is not stable.

(2)The user machine is resource limited.

(3Choose the play-in-team mode in the network setup of DVR.

(4)The region shelter or channel protection is set.

(5)The user has no surveillance purview.

(6)The real-time image of the hard disk recording machine itself is not clear.

13 Network connection is not stable.

Possible reasons are as follows:

(1)Network is not stable.

(2)IP address is conflicted.

(3)MAC address is conflicted.

(4)The network card of the computer or the hard disk recording machine is bad.

14 There is something wrong with the USB backup or writing a CD.

Possible reasons are as follows:

(1)The rewritable machine and the hard disk are shared the same data lines.

(2)The data is too much. Please stop recording and backup.

(3)The data exceeds the backup storage.

(4)The backup equipment is not compatible.

(5)The backup equipment is damaged.

15 The keyboard cannot control the DVR.

Possible reasons are as follows:

(1)The serial port of the DVR is not set correctly.

(2)The address is not correct.

(3)When multiple transformers are connected, the power supply is not large enough. Please give each transformer individual power supply.

(4)The distance is too far.

16 Alarm cannot be recessional.

Possible reasons are as follows:

(1)The setting of the alarm is not correct.

(2)The alarm output is turned on manually.

(3)The input machine is damaged or the connections are not correct.

(4)There are some problems for specific program edition, Please update the program.

17 Alarm is not working.

Possible reasons are as follows:

(1)The setting of the alarm is not correct.

(2)The connection of the alarm is not correct.

(3)The alarm input signal is not correct.

(4)An alarm is connected with two loops synchronously.

6.2 Maintenance

1   Please brush printed circuit boards, connectors, fans, machine box and so on regularly.

2   Please keep the grounding well done to prevent the video or audio signal interfered and the DVR from static or inductive electricity.

3   Do not pull out the video signal line or RS-232 port or RS-485 port with the power on.

4   Do not use the TV in the local video output port (VOUT) of DVR. It will damage the video output circuit easily.

5   Do not turn off the switch directly. Please use the turn-off function in the menu or press the turn-off button in the panel (3 seconds or longer) to protect the hard disk.

6   Please keep the DVR away from heat resource.

7   Please keep the DVR ventilated for better heat radiator.

Thank you for choosing our DVR!