DVR

Digital Video Recorder

User Manual

GUI Display with USB Mouse Control

Please read instructions thoroughly before operation
and retain it for futurereference.
For the actual display & operation, please refer to your DVR in hand.

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About This Document:

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Network Security Advice

Required measures to ensure basic network security of equipment:

Modify the factory default password and use a strong password.

Devices that do not change the factory default password or use a weak password are the easiest to be hacked . Users are advised to modify the default password and use strong passwords whenever possible (minimum of 6 characters, including uppercase, lowercase, number, and symbol).

Update firmware:

According to the standard operating specifications of the technology industry, the firmware of DVR, DVR and IP cameras should be updated to the latest version to ensure the latest features and security of the device.

The following recommendations can enhance your device's network security:

1. Change your password regularly

Regular password changes help ensure that only authorized users can access the device.

2. Modify the default HTTP and data ports

Modify the device's default HTTP and data ports, which are used for remote communication and video browsing.

These two ports can be set to any number between 1025 and 65535. Changing the default port reduces the risk of intruders guessing your port configuration.

3. Use HTTPS/SSL encryption

Set up an SSL certificate to enable HTTPS encrypted transmission. The information transmission between the front end device and the recording device is fully encrypted.

4. Enable IP filtering

After IP filtering is enabled, only devices with the specified IP address can access the system.

5. Change the ONVIF password

Some old versions of the IP camera firmware, after the system's master password is changed, the ONVIF password will not be automatically updated. You must update the camera's firmware or manually reset the ONVIF password.

6. Only forward the ports that must be used

Forward only the network ports that must be used. Avoid forwarding a long port area. Do not set the device's IP to DMZ.

If the camera is connected locally to the DVR, you do not need to forward the port for each camera. Only the ports of the DVR need to be forwarded.

7. Use a different username and password on the video surveillance system

In the unlikely event that your social media account, bank, email, etc. account information is leaked , the person who obtained the account information will not be able to invade your video surveillance system.

8. Restrict the permissions of the ordinary account
If your system is serving multiple users, restrict each user to only necessary access privileges.

9. UPNP
When the UPnP protocol is enabled, the router will automatically map the intranet ports. While convenient, this feature may expose port data to unauthorized access.

If you have manually opened HTTP and TCP port mappings on your router, we strongly recommend that you turn this feature off. In actual usage scenarios, we strongly recommend that you do not turn this feature on.

10. SNMP
If you do not use the SNMP, we strongly recommend that you turn it off. The SNMP function is limited to temporary use for testing purposes.

11. Check logs
If you want to know if your device is secure, you can check the logs to find some unusual access operations. The device log will tell you which IP address you have tried to log in or what the user has done.

12. Physically protect your device
For the safety of your device, we strongly recommend that you physically secure devices against unauthorized tampering. We recommend that you place the device in a locked room and place it in a locked cabinet with a locked box.
It is highly recommended that you use PoE to connect IP cameras to DVR.

IP cameras connected to the DVR using PoE will be isolated from other networks so that they cannot be accessed directly.

13. Network isolation between DVR and IP cameras
We recommend isolating your DVR and IP cameras from your computer network. This prevents unauthorized users on your network from directly accessing these devices.

About This Document

Purpose

This document describes in detail the installation, use, and interface operations of the DVR (Digital Video Recorder) device.

Symbol Conventions

The symbols may be found in this document, which are defined as follows:

Symbol	Description
 **Danger**	Alerts you to a high risk hazard that could, if not avoided.
 **WARNING**	Alerts you to a medium or low risk hazard that could, if not avoided, result in moderate or minor injury.
 **CAUTION**	Alerts you to a potentially hazardous situation that could, if not avoided, result in equipment damage, data loss, performance deterioration, or unanticipated results.
 **Tips**	Provides a tip that may help you solve a problem or save time.
 **NOTE**	Provides additional information to emphasize or supplement important points in the main text.

Table 1

Safety & Compliance Instructions

The following are the correct use of the product. In order to prevent danger and prevent property damage, please read this manual carefully before using the device and strictly comply that when using it. Please save the manual after reading.

Requirements

- The front end devices of POE are required to be installed indoors.
- Do not place and install the device in direct sunlight or near heat generating equipment.
- Do not install the device in a place subject to high humidity , dust or soot.
- Please keep the equipment installed horizontally or install the equipment in a stable place, taking care to prevent the product from falling.
- Do not drop or spill liquid into the device and ensure that no liquid filled items are placed on the device to prevent liquid from flowing into the device.
- Install the device in a well ventilated area, and do not block the ventilation openings of the device.
- Use the device only within the rated input and output range.
- Do not disassemble the device at will.
- Please transport, use and store the device within the permissible humidity and temperature range.

Power Requirement

- Be sure to use the specified manufacturer's model battery, otherwise there is a danger of explosion!
- Be sure to use the battery as required, otherwise there is a d anger of the battery catching fire, exploding or burning!
- Only use the same model of battery when replacing the battery!
- Be sure to dispose of the used battery as the instruction of battery.
- Be sure to use the power adapter that meet s standard with the dev ice, otherwise the personal injury or equipment damage caused by the user will be borne by the user.
- Use a power supply that meets the SELV (Safety Extra Low Voltage) requirements and supply power according to the rated voltage of IEC60950-1 in accordance with the Limited Power Source. The specific power supply requirements are based on the equipment label.
- Connect the Class I product to plug with the power outlet with a protective ground connection.
- The appliance is coupled to the port unit. Keep it at an easy angle for normal use.

Important Statement

Users are required to enable and maintain the lawful interception (LI) interfaces of video surveillance products in strict compliance with relevant laws and regulations. Installation of surveillance devices in an office area by an enterprise or individual to monitor employee behavior and working efficiency outside the permitted scope of the local law and use of video surveillance devices for eavesdropping of illegal purposes constitute behaviors of unlawful in terception.

This manual is only for reference and does not ensure that the information is totally consistent with the actual product. For consistency, see the actual product.

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1 Preface

1.1 Product Description

This product is a high-performance DVR device with local preview, multi-screen video split display, local real-time storage of video files, support for mouse shortcut operations, and remote management and control functions.

This product supports three storage methods: central backup, front-end storage, and client storage.

The front-end monitoring point can be located anywhere in the network without geographical restrictions, and combined with other front-end devices such as network cameras and coaxial cameras to form a powerful security monitoring network. In the network deployment system of this product, only one network cable is needed between the center point and the monitoring point, and there is no need to set up audio and video lines to the monitoring point. The construction is simple, and the wiring cost and maintenance cost are low.

This product is widely used in public security, transportation, electricity, education and other industries.

1.2 Product Features

1.2.1 Cloud Upgrade

For devices connected to the public network, the device software can be updated through online upgrade.

1.2.2 Real-time Monitoring

It has VGA interface and HDMI interface.

It can be monitored through the monitor screen or display, and supports VGA and HDMI output at the same time.

You can select any area of the screen for partial zooming.

1.2.3 Playback

Each channel can record independently in real time, and can play normal playback, synchronous playback, time-divided playback, smart fast playback, smart retrieval, video query, video backup and other functions. Please refer to the playback section.
Multiple playback modes: slow playback, fast playback, reverse playback, frame-by-frame playback, loop playback, etc.

The exact time of the event can be displayed during video playback.
You can select any area of the screen for partial zooming.

1.2.4 User Management

Each user group has a permission management set, which can be selected independently. The total permission set is a subset, and the user permissions in the group cannot exceed the permission management set of the user group.

1.2.5 Storage function

According to the user's configuration and strategy (such as through alarm, timing settings, etc.), the corresponding audio and video data transmitted by the remote device is stored in the DVR device. For details, please refer to the storage management section.

Users can record videos through WEB and VMS as needed, and the video files are stored on the client computer. Please refer to the storage section.

1.2.6 Alarm function

Respond to camera alarm input in real time, correctly process according to the linkage settings pre-set by the user, and give corresponding prompts.

Provide the setting option of the central alarm receiving server, which can actively notify the alarm information remotely, and the alarm information can be notified to the user through email or APP push information.

1.2.7 Network monitoring

Transmit the audio and video data of the camera of the DVR device to the network terminal through the network for decompression and playback.

The device supports 8 users to perform streaming media operations online at the same time. Audio and video data are transmitted using protocols such as HTTP (Hypertext Transfer Protocol), TCP (Transmission Control Protocol), P2P, RTSP (Real-time Transport Protocol).

Some alarm data or information uses SNMP (Simple Network Management Protocol) Support WEB access to the system, suitable for WAN and LAN environments.

1.2.8 Split screen

Use image compression digitization to compress multiple images in the same proportion and display them on the monitor screen.

Support 1/4/8 split screen when previewing; support 1/4/9 split screen when playing.

1.2.9 Recording function

DVR equipment supports timed recording, event recording (motion detection alarm), and intelligent recording. The recording files are placed on the hard disk and can be backed up using a USB device.

On the client PC (personal computer), you can use VMS software or connect to a WEB terminal to save the recording, or query and play back the stored video files.

1.2.10 Backup function

Support USB disk backup.

1.2.11 Record config

Supports regular and detect mode recording. You can set the recording time period, and you can also start and stop recording manually.

1.2.12 Snapshot function

You can set up a cyclic or timed snapshot, and then save it to the hard disk, upload it to FTP, or send it to an email.

1.2.13 Auxiliary function

Supports video NTSC and PAL formats;
Supports switching Channeltype to support coaxial cameras or IPCs with different resolutions;
Supports 6 signal cameras: XVI/AHD/CVI/TVI/CVBS/IP;
Supports NTSC and PAL cameras;
192 (16*12) detection areas can be set;
Real-time network detection and online user detection;
Supports automatic system restart;
Supports log recording;
Supports local GUI (graphical user interface) output and mouse shortcut menu operation;
Supports playing audio and video of remote IPC or DVR devices.

NOTE

For other features, see below.

2 Product Structure

2.1 Front Panel

2.1.1 Front Panel Button Description

Icon	Description	Icon	Description
ALARM	When an alarm event is triggered, it will flash to remind you.	POWER	It lights up when the device is powered.
REC	Lights up when the device is recording.	QUAD	Switch between single-screen and multi-screen preview with one click.
IR	Used to receive infrared signals from the remote control.	ESC	Exit the current operation.
MENU	Open the Control menu.	HDD	The light is on to indicate that the hard disk is reading and writing.
	Direction keys.		USB port.

Table 2

NOTE Some models may not have the above-mentioned indicator lights or buttons. Please refer to the actual product for details.

2.2 Rear Panel

2.2.1 Rear Panel Port Description

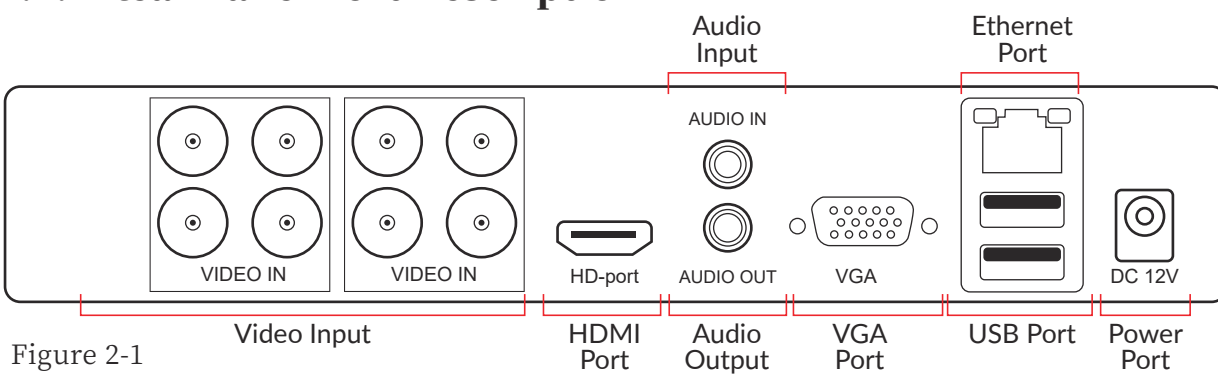


Figure 2-1

Icon	Description	Icon	Description
Video Input	Receives video signal from coaxial camera.	HDMI Port	Output the DVR device to a monitor or TV via HDMI. (version≥ 1.6)
Audio Input	Audio signal input from microphone.	Audio Output	Output audio signal to the speaker.
VGA Port	Output the DVR device to a monitor or TV via VGA.	Ethernet Port	Let the DVR connect to the Internet via Ethernet.
USB Port	Used to insert a mouse to control the DVR or insert a USB disk.	Power Port	The power input port of the DVR.

Table 3

NOTE Some models may not have some of the above interfaces or the quantity may be inconsistent. Please refer to the actual product.

2.3 Important Notes

Thank you for choosing the DVR. Please read the user manual carefully before using this product.

The DVR is a complex system-based device. To avoid misoperations and malfunctions caused byenvironmental factors and human factors during installation, commission, and application, note the following points when installing and using this product:

- It is recommended to use a surveillance hard disk as the storage medium.
- Before opening the product casing, be sure to turn off the power and eliminate static electricity on your body to prevent electric shock and static electricity from burning the product.
- We are not responsible for the loss of video data caused by improper installation, configuration, operation, hard disk errors, etc.
- All pictures in the document are for reference only, please refer to the actual product.

NOTE Please read the user manual carefully before installing and using this product.

2.4 About This User Manual

Please note the following points before using this user manual:

- This user manual is intended for people who operate and use DVRs.
- The information in this user manual applies to the entire series of DVRs, and is explained using DVRs as an example.
- Please read this user manual carefully before using the DVR, and follow the methods described in this manual when using the DVR.
- If you have any questions when using the DVR, please contact your product seller.
- In the case of product upgrades, the information in this document is subject to change without prior notice.

2.5 Installation Environment and Precautions

Installation environment

The following table defines the DVR installation environment.

Icon	Description
Electromagnetism	The DVR conform to national standards of electromagnetic radiation and does not cause harm to the human body.
Temperature	0℃ ~ +55℃
Atmospheric pressure	86kpa—106kpa
Humidity	10% ~ 90% (No condensation)
Power supply	DC 12V/2A, DC 12V/4A, please refer to actual product.
Power consumption	<15W (excluding the hard disk)

Table 4

Installation precautions

Note the following points when installing and operating the DVR:

- The DVR power adapter uses DC 12Vz±20% input. Do not use the DVR when the voltage is too high or too low.
- It is recommended to install the DVR horizontally.
- Avoid direct sunlight on the DVR, and keep away from heat sources and high temperature environments.
- During installation, please connect the DVR and other devices correctly.
- The DVR does not come with a hard disk when it leaves the factory. Please install one or more hard disks when using it for the first time.
- The DVR automatically identifies the hard disk capacity and supports mainstream hard disk models.
- Users should use high-quality brand hard disks to ensure that the DVR runs stably and reliably.
- When using a mechanical hard disk with a capacity of more than 2TB, please use a power supply with an output of DC 12V/4A.

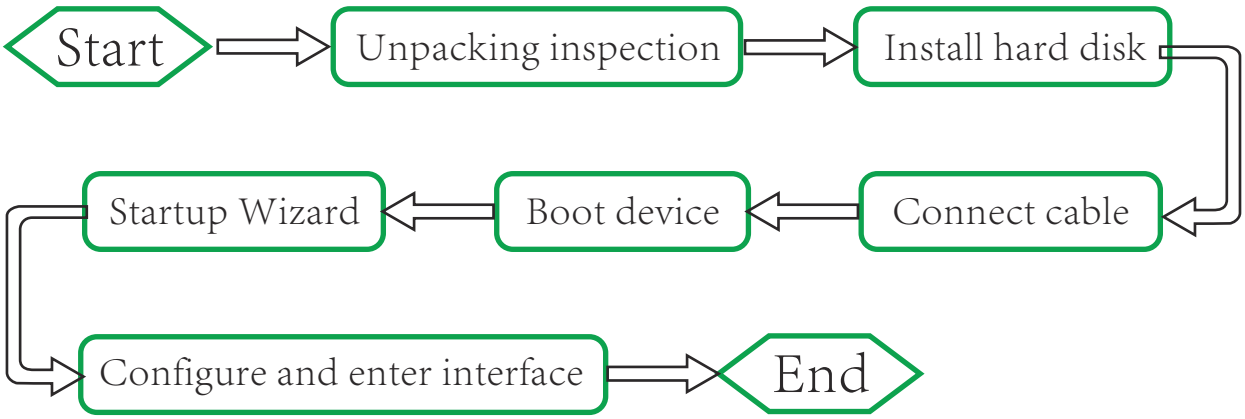
Other precautions

- Clean the DVR with a piece of soft and dry cloth. Do not use chemical solvents.
- Do not place objects on the DVR.

The DVR meets the national standards of electromagnetic radiation and does not cause electromagnetic radiation to the human body.

3 Install Device

3.1 Process



Step 1 Check the appearance, packaging, and labels of the device to ensure that there is no damage.

Step 2 Install the hard disk, fix the hard disk on the device housing, and fix it with screws.

Step 3 Connect the device cable.

Step 4 After ensuring that the device is connected correctly, turn on the power and start the device.

Step 5 Configure the initial parameters of the device. The startup wizard includes network configuration, adding cameras, and managing disks. Please refer to the wizard section for specific operations.

3.2 Package Content

When the transportation company sends network video recorder to you, please check the following table for unpacking. If you have any questions, please contact our sales technicians.

Standard Package

- ☐ DVR
- ☐ Adapter & Power cord
- ☐ HDD screws
- ☐ USB Mouse

Optional Accessories

- ☐ IR Remote Controller
- ☐ DSUB Connector
- ☐ Manual for IR Remote Controller
- ☐ IR Receiver Extension Cable

3.3 Install Hard Disk

When installing for the first time, first check whether the hard disk is properly installed, including tightening the screws and plugging in the cables.

CAUTION

When replacing the hard disk, please turn off the power and then open the device to replace the hard disk.
Please use the monitoring dedicated SATA hard disk recommended by the hard disk manufacturer. Use a reasonable hard disk capacity according to the recording requirements.

3.3.1 Install Hard disk steps

Step 1 Unscrew the screws that fix the top cover and remove the top cover. (Fingure 3-1 and Fingure 3-2)

Step 2 Hold the hard disk with one hand, align the hard disk hole with the bracket hole, and tighten the hard disk screw. (Figure 3-3)

Step 3 Insert the hard disk data cable and power cable. (Figure 3-4)

Step 4 Cover the top cover and tighten the fixing screws.



Figure 3-1



Figure 3-2



Figure 3-3



Figure 3-4

If the DVR supports multiple hard disks, the installation method is as above.

3.4 Audio and video input and output connections

3.4.1 Video input connections

The video input port is BNC connector plug. The demand of input signal is PAL/NTSC BNC(1.0V_{P-P},75Ω).

The video signal must be accorded with the state standard which has the high signal to noise ratio, low aberration and low interference. The image must be clear and has natural color in the appropriate brightness.

Insure the vidicon signal stable and credible

The vidicon should be installed in the appropriate location where is away from backlighting and low illumination or adopts the better backlighting and low illumination compensation.

The ground and power supply of the vidicon and the DVR should be shared and stable.

Insure the transmission line stable and credible

The video transmission line should adopt high quality coaxial pair which is chosen by the transmission distance. If the transmission distance is too far, it should adopt shielded twisted pair, video compensation equipment and transmit by fiber to insure the signal quality.

The video signal line should be away from the electro magnetic Interference and other equipments signal lines. The high voltage current should be avoided especially.

Insure the connection stable and credible

The signal and shield lines should be firm and connected credible which avoid false and joint welding and oxidation.

3.4.2 Video output connections and options

The video output is divided into PAL/NTSC BNC(1.0V_{P-P} ,75Ω) and VGA output (selective configuration).

When replace the monitor by the computer display, there are some issues to notice.

- Do not stay in the turn on state for a long time.
- Keep the computer display normal working by demagnetizing regularly.
- Stay away from the electro magnetic Interference.

TV is not a credible replacement as a video output. It demands reducing the use time and control the power supply and the interference introduced by the nearby equipments strictly. The creepage of low quality TV can lead to the damage of other equipments.

3.4.3 Audio signal input

Audio port is BNC connection.

The input impedance is high so the tone arm must be active.

The audio signal line should be firm and away from the electro magnetic Interference and connected credible which avoid false and joint welding and oxidation. The high voltage current should be avoided especially.

3.4.4 Audio signal output

Commonly the output parameter of DVR audio signal is greater than 200mv 1KΩ(BNC) which can connect the low impedance earphone and active sound box or other audio output equipments through power amplifier. If the sound box and the tone arm can not be isolated, howling phenomen a is often existed. There are some methods to deal with the above phenomena.

- Adopt better directional tone arm.
- Adjust the sound box volume to be under the threshold that produces the howling phenomena.
- Use fitment materials that absorb the sound to reduc e reflection of the sound.
- Adjust the layout of the sound box and the tone arm.

3.5 Alarm input and output connection

Before connecting the device, please pay attention to the following points:

3.5.1 Alarm input

- The alarm input is a grounded alarm input.
- The alarm input requires a grounded voltage signal.
- When the alarm is connected to two DVRs or to a device such as a DVR, a relay should be used for isolation.

3.5.2 Alarm output

The alarm output cannot be connected to a high-power load (not more than 1A). When forming an output circuit, it is necessary to prevent the relay from being damaged by a large current. When a high-power load is used, a contact isolator should be used.

NOTE Some models do not have alarm input and output functions.

4 Basic Operations

4.1 Power on the Device

CAUTION

- Ensure that the DVR is correctly connected to a power supply, and a display is correctly connected to the high defini tion multimedia interface HDMI) or video graphics array VGA port of the DVR before power on.
- In some environments, a bnormal power supply may cause the failure of the DVR to work properly and even damage the DVR in severe cases. It is recommended to use a regulated power supply to power the DVR in such environments.

After the DVR is connected to the power supply, the power indicator light is always on. When you start the DVR for the first time, the startup wizard will automatically run.

NOTE The hard disk is strictly detected during device startup.

If the detection result failed, the possible causes are as follows:

- The hard disk is new and is not formatted. Login to the system and format the hard disk.
- The hard disk is formatted, but the file system is inconsistent with the file system supported by the DVR. Format the hard disk.
- The hard disk is damaged.

4.2 Startup Wizard

When the user logs in to the device for the first time or resets the DVR, there will be a boot wizard, which can be followed to perform simple settings, including: time zone, language, password change, safety question, Pattern, Net test, Network setting, bind to app, Human detect (requires camera support), as shown in Figure 4-2 to Figure 4-9.

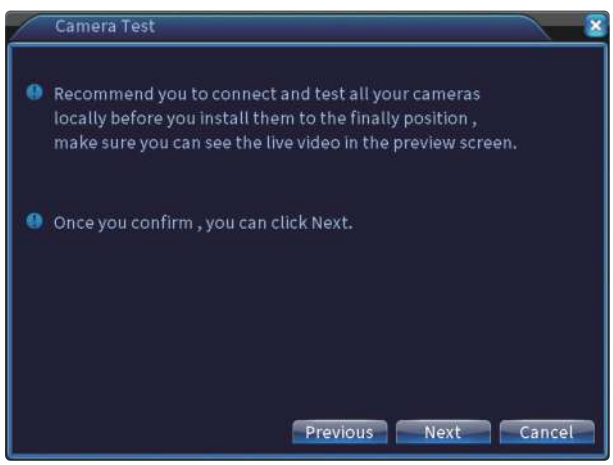


Figure 4-1

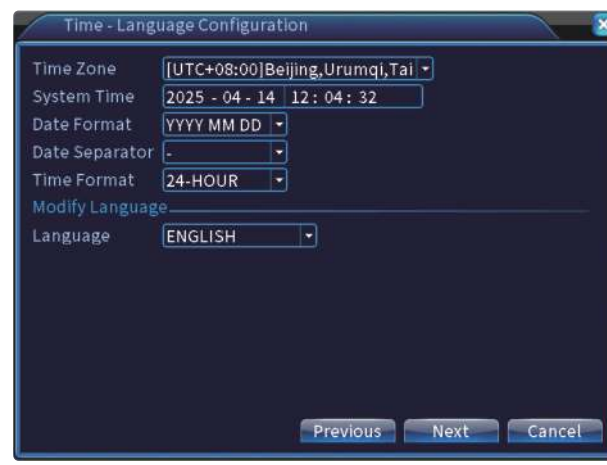


Figure 4-2



Figure 4-3



Figure 4-4



Figure 4-5



Figure 4-6



Figure 4-7

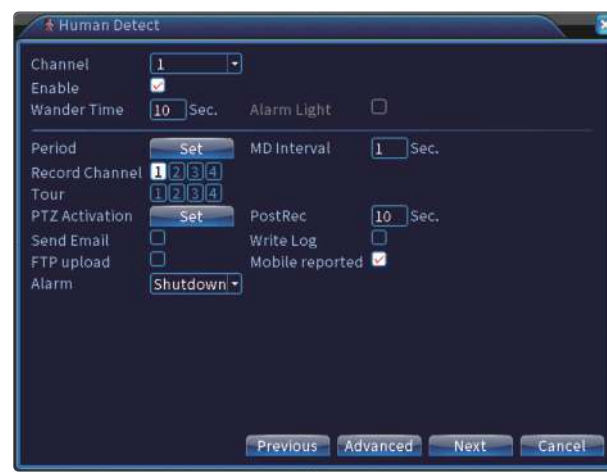


Figure 4-8

4.3 Power off the Device

Right-click the mouse and select “Logout” > “shutodown”, as shown in Figure 3-10 and 3-11. If the DVR has a power switch on the rear panel, you can turn off the power switch. If there is no power switch, directly disconnect the DVR from the power supply.



Figure 4-10



Figure 4-11

4.4 System Login

When the DVR is turned on, the user must log in, and the system provides corresponding functions according to the user's permissions. There is one user by default, with a random username and password, and full control permissions. The username and password can be modified, but the permissions cannot be modified (equivalent to a super user).



Figure 4-12

NOTE **Password protection: If you enter the wrong password 5 times in a row, your account will be locked. You need to click Forgot password and then follow the prompts to retrieve or reset it.**

For the security of your system, please change your username and password after the first login.

4.5 Preview

You can switch between windows by right-clicking the mouse.

Each viewing window displays the channel name, monitoring video, and alarm status.

Icon	Description	Icon	Description
CAM01	Channel name		Human Detection
	Record status	5m	Quick Playback(with in 5min)
	Audio Output status		Face Detection
	Audio Input status		APP Connections
	Video signal switch		

Table 5

4.6 Desktop shortcut menu

In preview mode you can right click mouse to get a desktop shortcut menu, as the Figure 4-13 shows. The menu includes: main menu, record mode, playback, PTZ control, XVI control, Alarm light, Smart pics, XVI&AHD, High Speed PTZ, color Setting, Output adjust, NetDetect, Logout, view mode shift.



Figure 4-13



Figure 4-14

4.7 Main menu

When you login, the system main menu, as the Figure 4-14 shows.

5 Desktop Shotcut Menu

5.1 Main Menu

Refer to chapter 4.7.

5.2 Startup Wizard

Refer to chapter 4.2.

5.3 Record Mode

Please check current channel status: " ○" means it is not in recording status, " ◉" means it is in recording status.

You can use desktop shortcut menu or click [main menu]> [record] > [record Conf.] to enter the recording configuration interface.



Figure 5-2

Schedule
Record according to the schedule settings.

Manual
No matter what the channel recording settings are in, select the "Manual" button to record the corresponding channel.

Close
No matter what the channel recording settings are in, select the "Close" button to stop recording the corresponding channel.

5.4 Playback

There are two methods for you to play the video files in the hard disk.

- In the desktop shortcut menu.
- Main menu > Record > Playback

NOTE **When playing back the video, you need to ensure that the hard disk is in a readable state, read-write or read-only.**

5.4.1 video playback preview

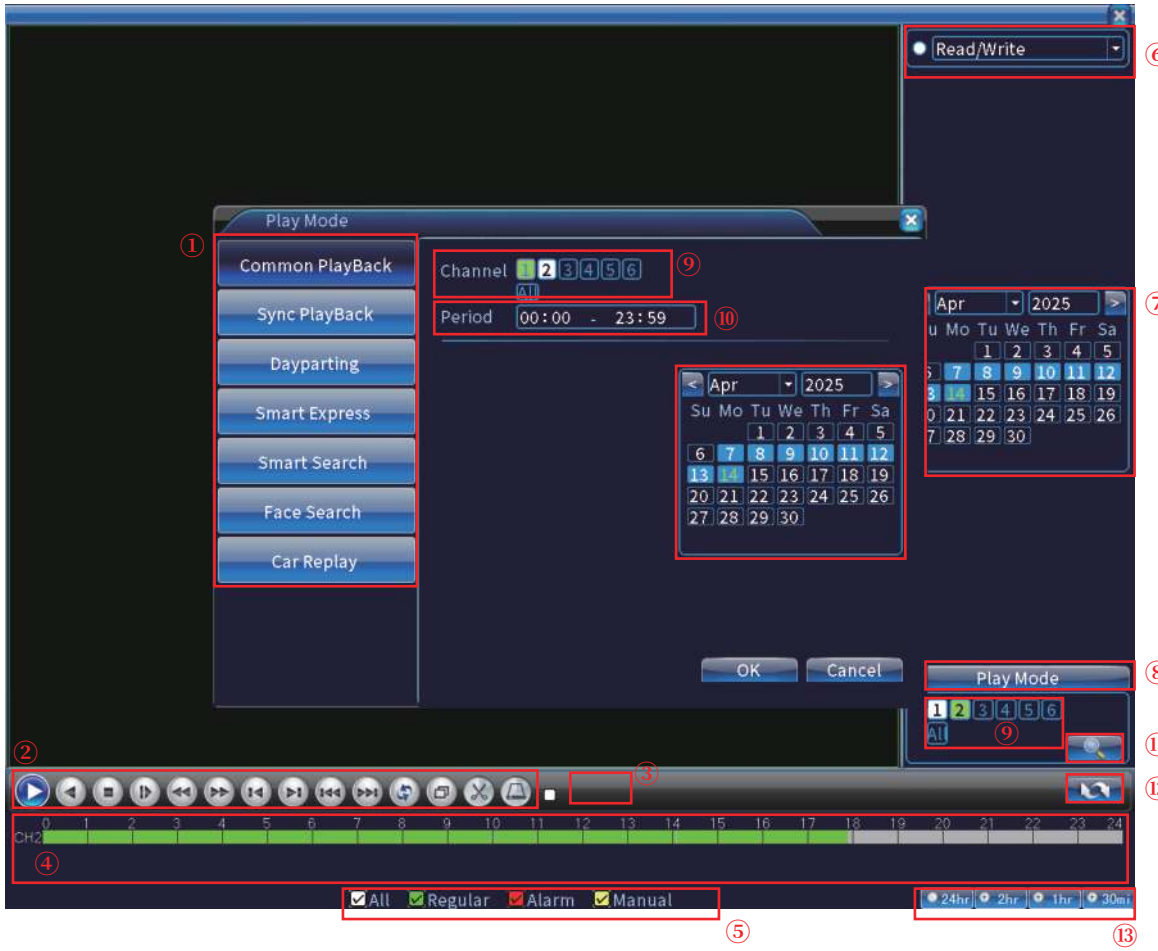


Figure 5-3

5.4.2 Video playback function module

Number	Description	Number	Description
①	Playback mode selection	②	Playback Control Buttons
③	Operation Tips	④	Recording status playback progress
⑤	Video Type	⑥	Storage device selection
⑦	Date Selection	⑧	Playback Mode
⑨	Playback channel selection	⑩	Query time period
⑪	File Search	⑫	Switch by time or file mode
⑬	Time progress bar options		

Table 6

5.4.3 video playback control button

Button	Function	Button	Function
	Play/Pause button		Reverse
	Stop playback		Slow Motion
	Fast Reverse		Fast playback
	Previous Frame		Next Frame
	Previous file		Next file
	Loop Playback		Full Screen Display
	Start/End Clip		Backup

Table 7

5.4.4 Playback mode function description

Play Mode	Description
Common PlayBack	That is, regular playback, all playback channels can be independently played on demand, fast forward, fast rewind, etc.
Sync PlayBack	All playback channels are synchronized on demand, fast forward and fast rewind.
Dayparting	Playing back a single channel in different time periods can significantly improve the playback efficiency of the single channel.
Smart Express	After selecting the alarm type of interest, the alarm recordings will be played at normal speed, and other recordings will be played at fast speed.
Smart Search	After selecting the alarm type of interest, retrieve the alarm screenshot and play the alarm picture on demand.
Face Search	Retrieve video footage that captures human faces.
Car Replay	Retrieve video footage showing vehicles.

Table 8

NOTE **When playing back the video, you need to ensure that the hard disk is in a readable state, read-write or read-only.**

Recording Status Playback Progress

Different recording types are displayed in different colors in this column, with normal recording in green, alarm recording in red, and manual recording in yellow. Users can click on any time period to perform fuzzy playback, fast forward, and rewind operations.

Operation Tips

Displays the function of the button where the cursor is located.

Playback Channel Selection

Different models and channel modes support different numbers of channels for simultaneous playback. This function allows you to select the playback channel.

5.5 PTZ Control

PTZ control is a little different between hybrid mode & full digital mode:

Digital channel

The digital channel need link PTZ, the remote device should connect with PTZ and with protocol correctly set also.

Analog channel

Only when the device is connect with PTZ and configure protocol correctly is ok.

Operation interface is as followed. The functions include: 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.



Figure 5-4



Figure 5-5



Figure 5-6



Figure 5-7

Note:

1. Decoder A(B)line connects with DVR A(B)line. The connection is right.
2. Click [main menu] >[system] >[PTZ Config] to set the PTZ parameters.
3. The PTZ functions are decided by the PTZ protocols.

Speed

Set the PTZ rotation range. Default range: 1 ~ 8.

Hide

Current interface will be temporarily hidden after click it.

Direction control
Control the PTZ rotation. 8 directions control is supportive.(4 directions in Front panel is supportive)

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

Zoom
Click ⊕ / ⊖ button to adjust the zoom multiple of the camera.

Overturn
Reverses the direction of control up and down.

Mirroring
Reverses the direction of control left to right.

PTZ Trace
The PTZ tracking feature on the DVR allows the PTZ camera to automatically follow a pre-recorded motion path, similar to a preset, but with smoother, more dynamic motion. This feature can be used to dynamically track a moving object.

Page switch
Switch between different pages.

Direct Aux Operate
Select the auxiliary device, select the on or off button, switch control.

Auxiliary Number Operate
The operation of corresponding auxiliary switch according to PTZ agreement.

Tour
By setting multiple preset points, the camera can rotate back and forth between multiple preset points.

Pattern
By operating the PTZ, the recorder records and saves the running track of the PTZ. After that, when the patrol is called, the PTZ will run repeatedly according to the recorded track, as shown in Figure 5-7.

Focus
Use the ⊕/⊖ keys to adjust the camera focus. The camera lens needs to support automatic focus.

Iris
Use the ⊕/⊖ keys to adjust the camera aperture size. The camera lens needs to support the aperture.

Left
Set the left margin of autoscan.

Right
Set the right margin of autoscan.

AutoScan
Set the left and right boundaries in the horizontal direction. After calling the line scan, the PTZ moves between the left and right boundaries in the horizontal direction.

AutoPan
Click the AutoPan button to make the PTZ rotate horizontally (relative to the original position of the camera). Click the stop button to stop the horizontal rotation.

Flip
By setting multiple preset points, the camera can rotate back and forth between multiple preset points.

Reset
The PTZ restarts and all setting data is reset to zero.

5.6 XVI control

Adjust the output effect of the coaxial camera image. For a more detailed explanation, please refer to chapter 6.4.10



Figure 5-8

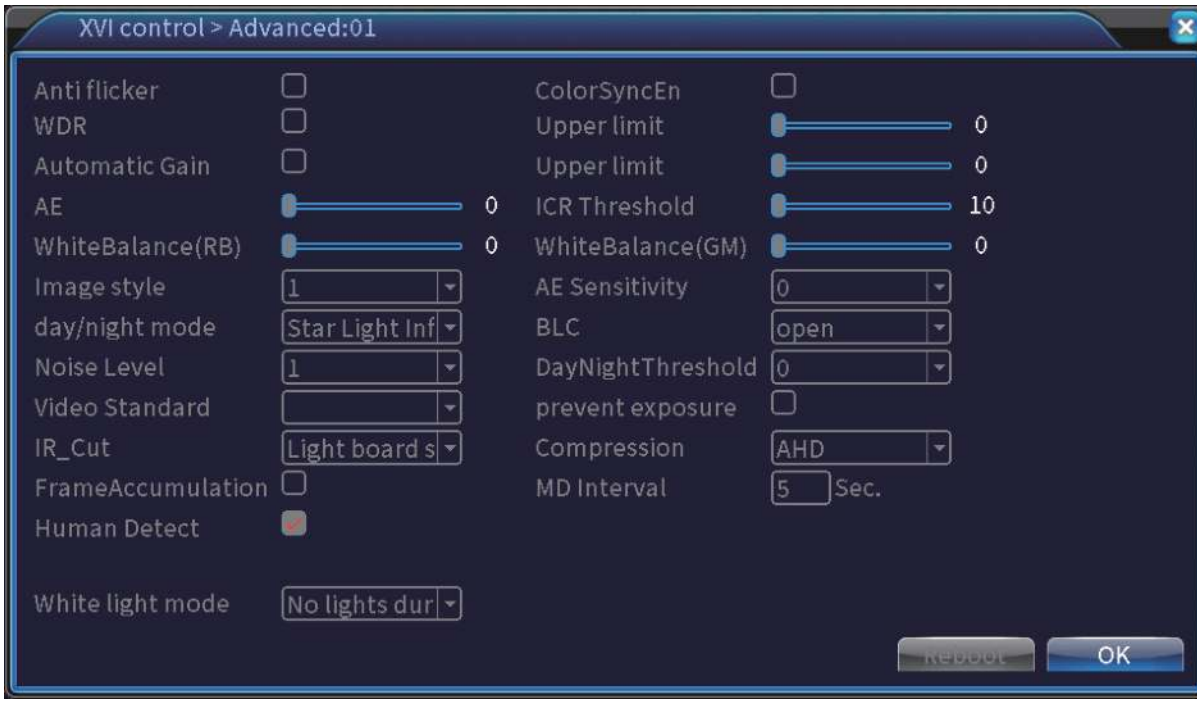


Figure 5-9

5.7 Alarm Light

Set the alarm light so that the camera that supports both infrared and white light can switch from infrared light to white light when motion detection is triggered.



Figure 5-10

5.8 Smart pics

When smart snapshot and image pushing are turned on, a face display area will appear on the right side of the preview interface, as shown in Figure 5-11.

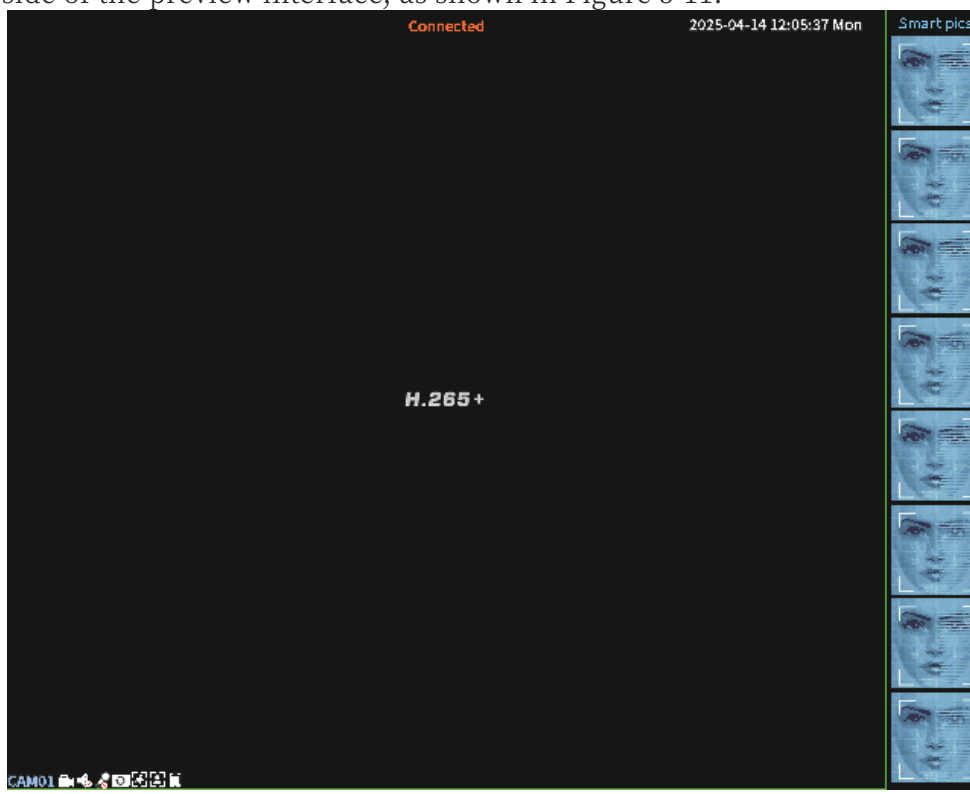


Figure 5-11

5.9 XVI&AHD

Switch DVR channel signal support, the default is auto.



Figure 5-12

5.10 HighSpeedPTZ

Click the left mouse button on the screen to quickly rotate the camera to the specified position.

5.11 Color Setting

Through the color setting function, users can adjust the brightness, saturation, hue, etc. of each channel preview screen in real time or on a scheduled basis according to personal preferences, as shown in Figure 5-13.

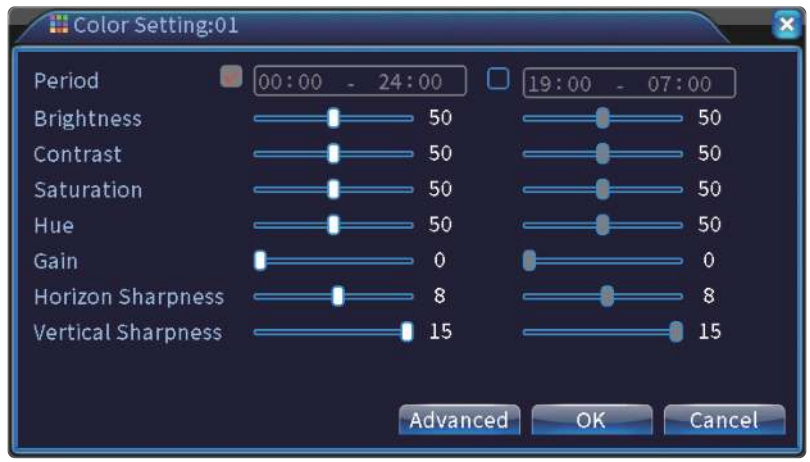


Figure 5-13

NOTE Color setting is only valid when the connection mode is single connection. Only some property adjustments of ONVIF connected remote devices are valid and some ONVIF connected remote devices are not compatible with this function.

5.12 Output Adjust

*Hybrid mode has black edges in vertical and horizontal directions, while full digital mode has none. Adjust the TV output area parameters, as shown in Figure 5-14. You can use the desktop shortcut menu, or go to [Main Menu]>[Advanced]>[Output Adjust].



Figure 5-14

5.13 NetDetect

NetDetect can be used to quickly detect whether the network is unobstructed. Network detection includes local network detection, remote network detection and network traffic detection, as shown in Figure 5-15.

5.13.1 Remote Net Detect

Diagnose the network connection status of the recorder, and also view online users. The network tool can be used to ping the URL or IP to detect the packet loss rate; the network settings of the recorder can be configured.



Figure 5-15

Online User

You can see the remotely controlled accounts here, and you can disconnect a user.

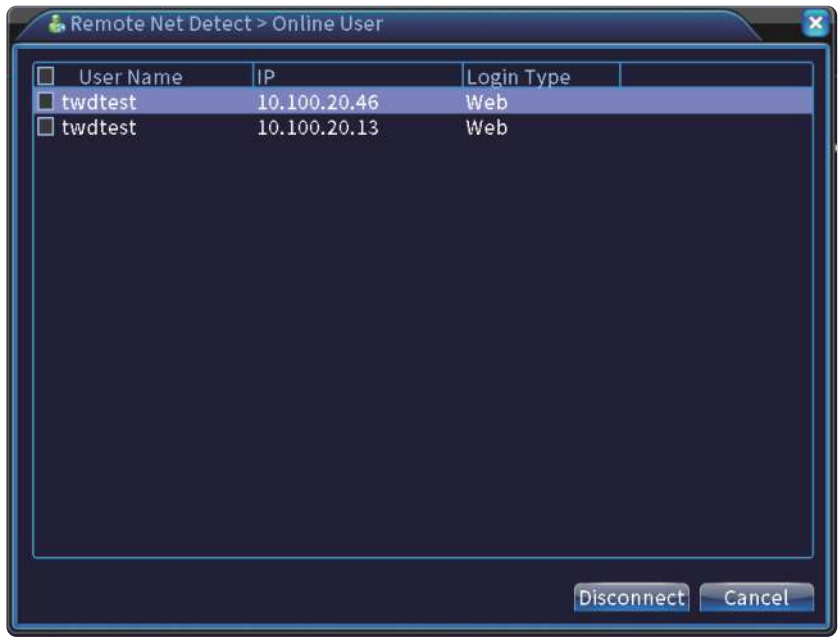


Figure 5-16

Web Tool

You can test the network connectivity through a web tool, such as pinging www.google.com, and make sure the response time does not exceed 50ms and the Lost Rate is 0.

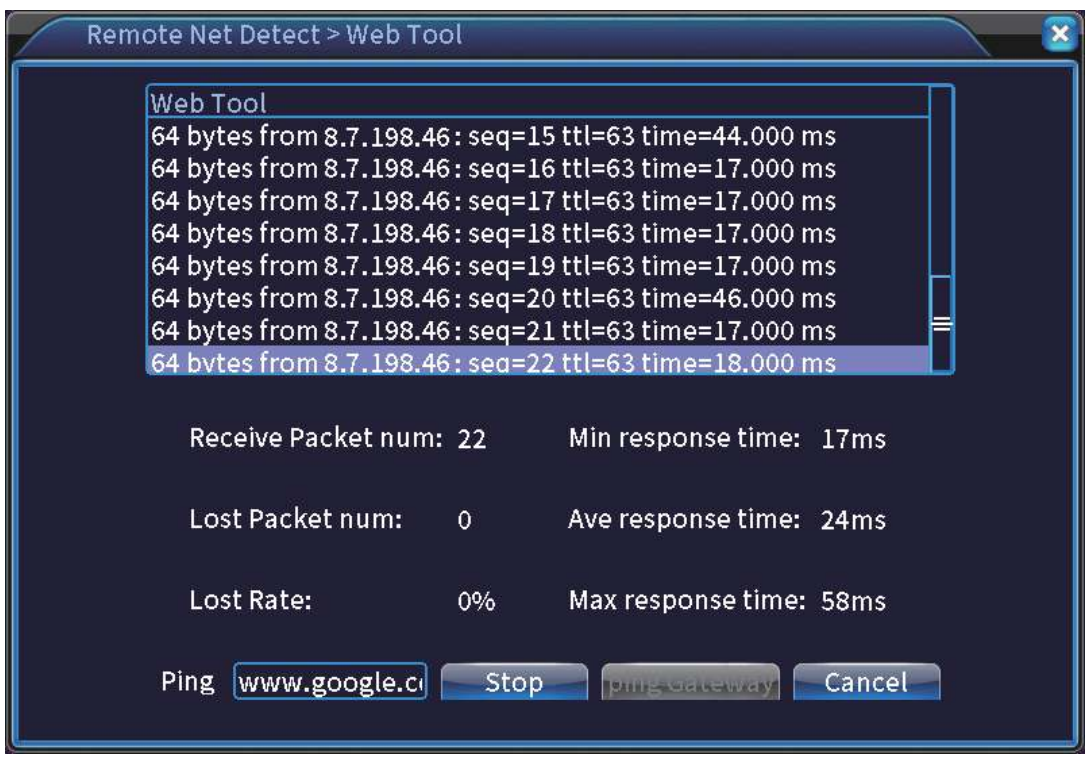


Figure 5-17

Network

Here you can make detailed settings for the network. By default, DHCP Client is turned on and automatically set to the same network segment as the router.
For specific settings, please refer to:

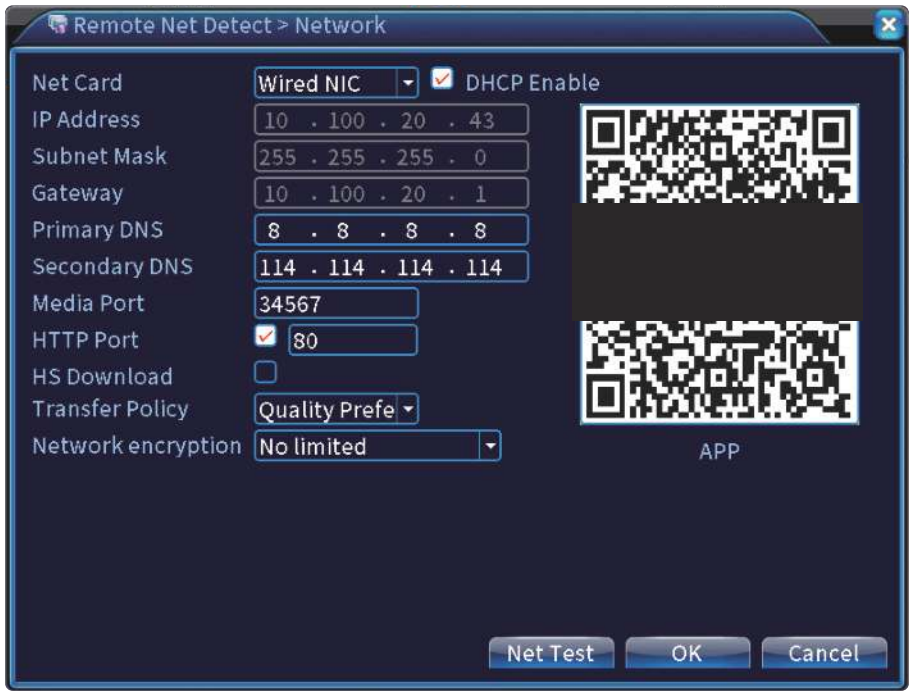


Figure 5-18

5.13.2 Local Net Detect

Enable the front-end offline detection and record the front-end offline status in the past week, as shown in Figure 5-19.

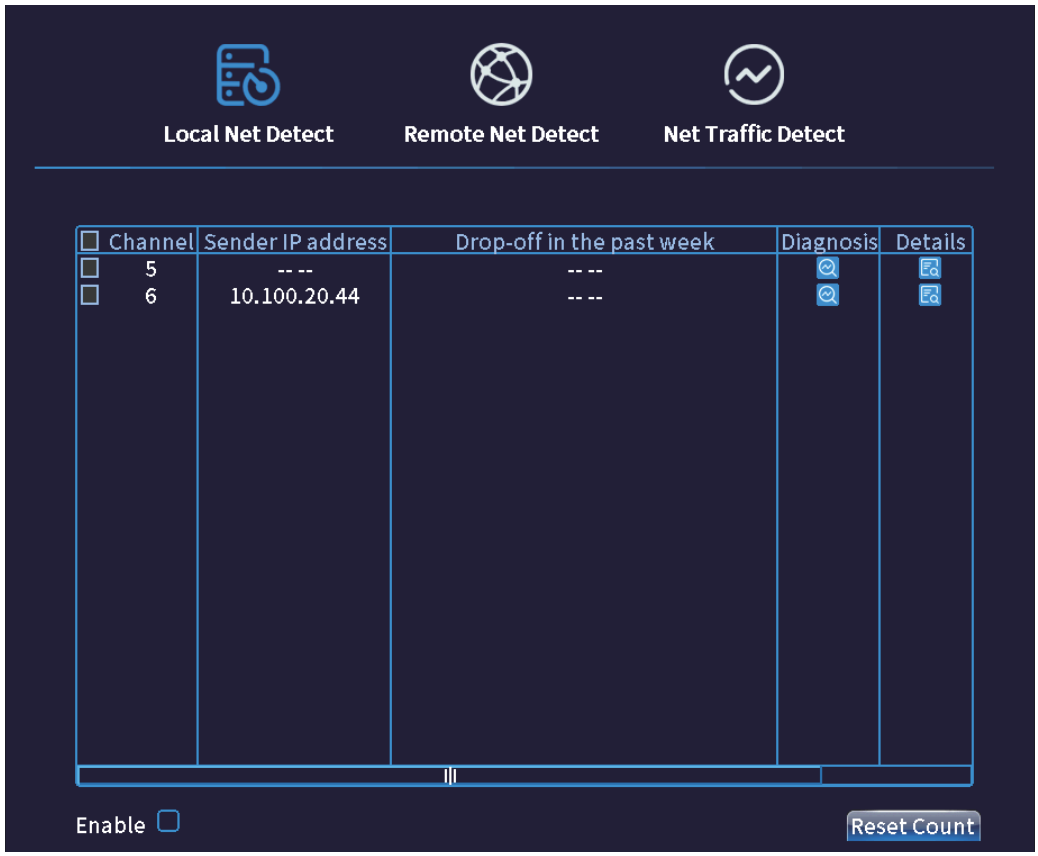


Figure 5-19

NOTE **This function will only be displayed after Digitaltype is switched to IPC support mode, and can only detect IPC online status.**

5.13.3 Net Traffic Detect

The data transmission and reception status of the recorder network card LAN1 can be viewed in real time, as shown in Figure 5-20.

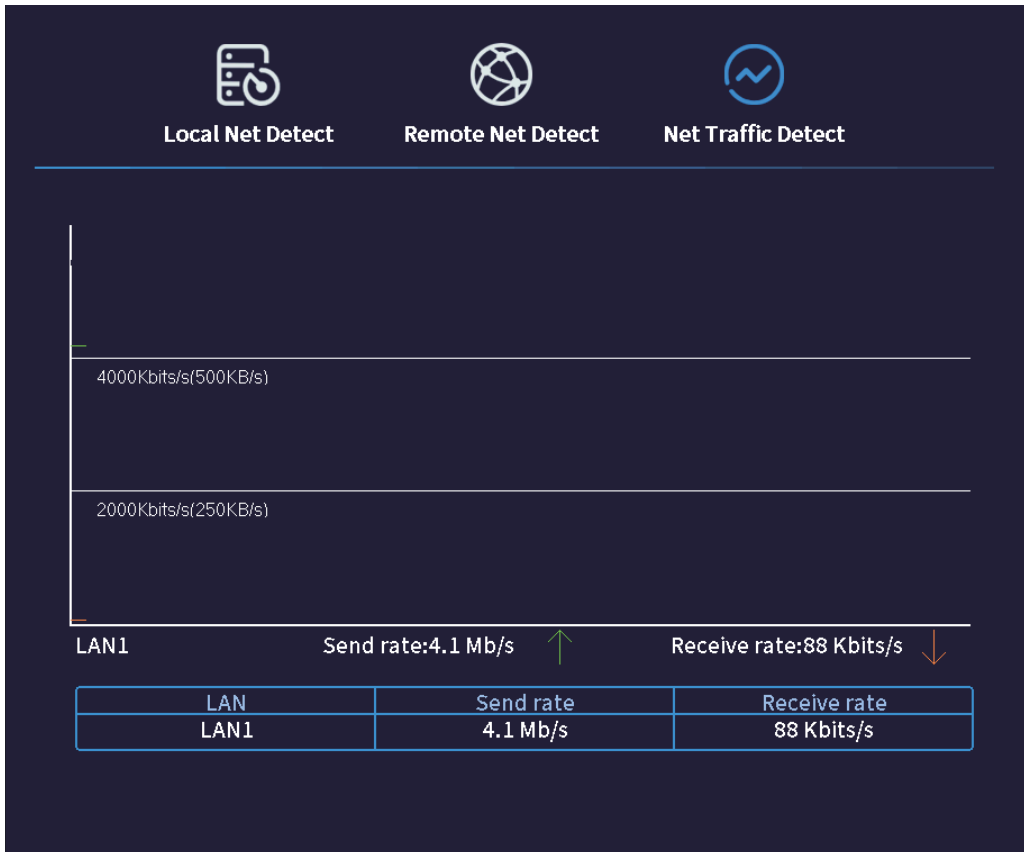


Figure 5-20

5.14 Logout



Figure 5-21

Log out, shut down or restart. You can use the desktop shortcut menu or enter the [Main Menu] menu.

Logout

Exit the menu. You will need to enter the password the next time you enter.

Shutdown

Exit the system. Turn off the power. When you press the shutdown button, there will be a timed shutdown reminder. The system shuts down after three seconds. Cancelling midway will be invalid.

Restart

Exit the system. Restart the system.

6 Main Menu

6.1 Main menu navigation

Right click the mouse - click the main menu to enter the main menu interface, as shown in Figure 6-1.
For the description of each function in the main menu, see the Table 9.

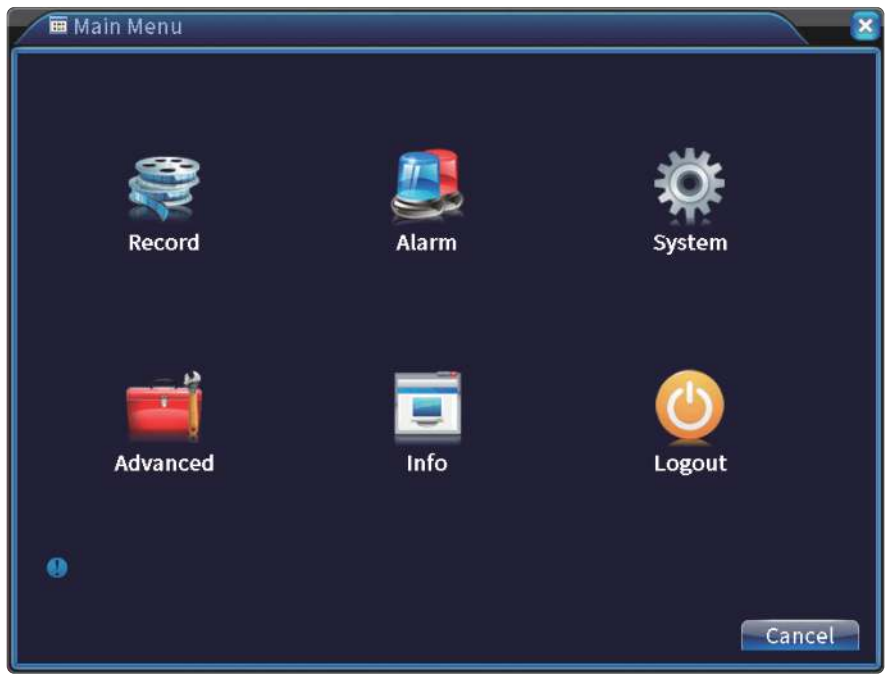


Figure 6-1

Main Menu	Sub Menu	Function
Main Menu	Record Conf.	Set the recording configuration, recording type, recording time section.
	SnapShot Conf.	Set up the DVR snapshot function, refer to chapter
	PlayBack	Set recording playback, refer to chapter 5.4.
	Backup	Backup record file to USB device, refer to chapter
Alarm	Motion Detect	Set the motion detection alarm, refer to chapter
	Abnormality	Set the Abnormal alarm, refer to chapter
	Human Detect	Set the human detect alarm, refer to chapter
	Face detection	Set the face detection alarm, refer to chapter
	Vehicle Detect	Set the vehicle detect alarm, refer to chapter

	Traditional alarm	Set the traditional alarm, refer to chapter
System	**General**	Set system time, data format, language, hard disk full-time operation, machine number, video format, output mode, daylight saving time, stay time
	Encode	Set main (extra) coding parameter: code mode, resolving ability, frame rate, code stream control, image quality type, code stream value, frame between value, video/audio enable,
	Network	Set basic network parameters, DHCP and DNS parameters, network high speed download
	NetService	NTP, Email, IP Filter , DDNS, FTP, AlarmSever, upnp, RTSP, Cloud, Mobile reported
	DISPLAY	Set channel title, preview hint icon state,resolution, transparency, Region cover, time, channel title.
	PTZ Config	Set channel,control method, PTZ protocol, address, baudrate, date bit, stop bit, parity
	RS232	Set serial port function, baudrate, date bit, stop bit, parity
	Tour	Set patrol mode and interval time
	Digital	Set channel mode, check channel status and configure the digital channel, etc.
	XVI settings	Adjust the output image of the coaxial camera, including brightness, contrast, saturation, etc. Refer to chapter 5.6
Advanced	**Storage**	Perform various operations on installed hard disks.
	Account	Set or modify DVR accounts, passwords, permissions, etc.
	Online User	Check the remote control userID, refer to chapter 5.13.1.
	Output Adjust	Adjust top, bottom, near, starboard distance, vertical and horizontal black bars
	AutoMaintain	Set automatic reboot system and automatic deleting files.
	Restore	Resume setup state: common setup, code setup, recording setup, alarm setup, network setup, network ser vice, preview playback, serial port setup, user management
	Upgrade	Use an external device (such as USB) to upgrade the device firmware
	Device Info	Device hardware configuration and information.
	Import/Export	Export device logs or configurations to an external device, or import configurations.
Info	**HDD Info**	Display hard disk capability and recording time.
	BPS	Display code stream information.
	LOG	Search logs by time, type, or clear logs.
	Version	Displays the device's MAC address, serial number, and version information.
Logout	**Logout**	Log out of the logged in account.
	Shutdown	Turn off the DVR device.
	Reboot	Restart the DVR device.

Table 9

6.2 Record

There are two DVR recording modes: manual recording and scheduled recording.

- Record Mode: In the desktop shortcut menu > Recording Mode, select the DVR recording mode, refer to chapter 5.3.
- Record Config: In the main menu > Record > Record Conf. (Recording Configuration), set the DVR scheduled recording configuration. (Figure 6-2)

6.2.1 Record Configuration

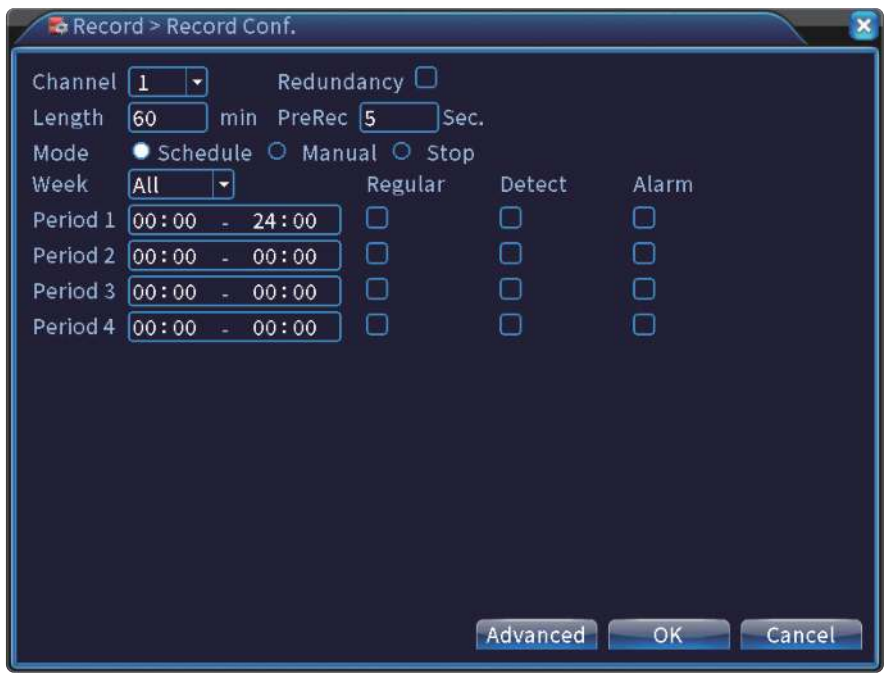


Figure 6-2

6.2.2 Snapshot Configuration

The snapshot configuration function of the DVR allows users to efficiently manage the capture and storage of surveillance images by setting different capture modes and storage options, as shows Figure 6-3.

NOTE Some models do not have this function.

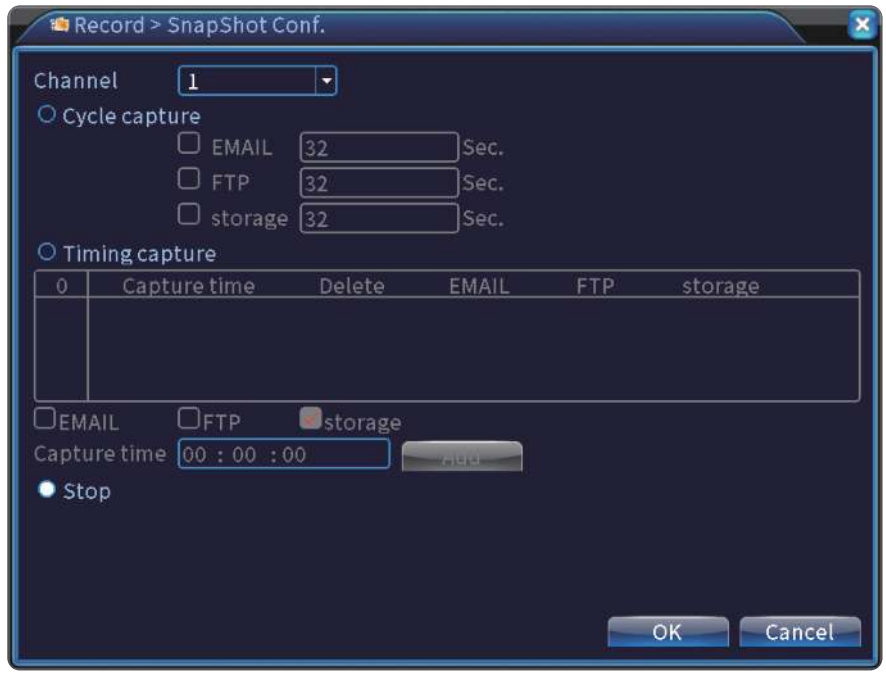


Figure 6-3

Channel
Select the channel which need to snapshot.

Cycle capture
Capture snapshots at a fixed time loop.

Timing capture
Set a timer to capture snapshots.

EMAIL / FTP / storage
Set how to handle snapshots. You can send them via email, upload them to an FTP server, or save them to the snapshot partition on the hard disk.

6.2.3 Playback

Refer to chapter 5.4.

6.2.4 Backup

Through the video backup function, users can back up the video files in the video recorder's hard disk to external USB flash drives, portable hard drives and other storage devices.

NOTE **Before backing up files, please ensure that there is enough storage space in the storage device.**

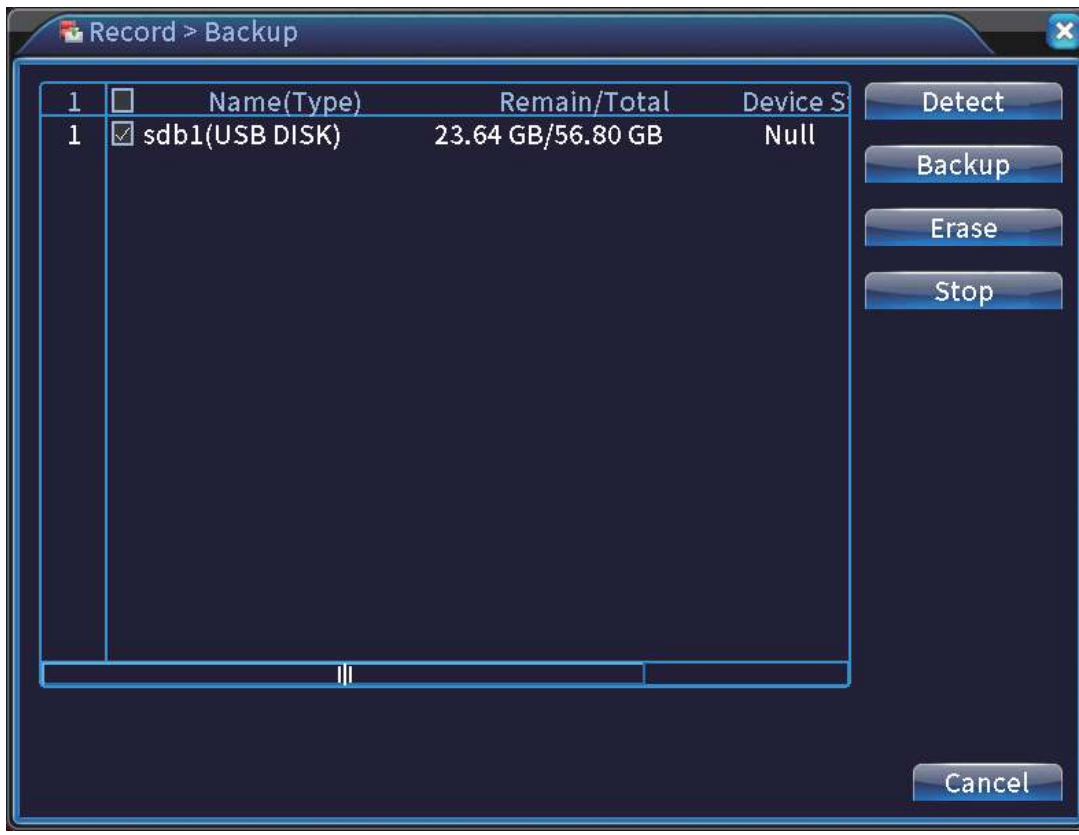


Figure 6-4

Detect

Detect the storage device connected to the USB port of the recorder, which can be a USB flash drive, mobile hard disk, etc.

Backup

Select the detected storage device and the backup dialog box will pop up as shown below. You can select the video files to be backed up based on the type, channel, time and other attributes, as shown in Figure 3-23.

Erase

Format the selected external storage device;

NOTE **Note: Formatting the storage device will result in the loss of all files. Please back up the files before formatting.**

Stop
Stop video file backup.

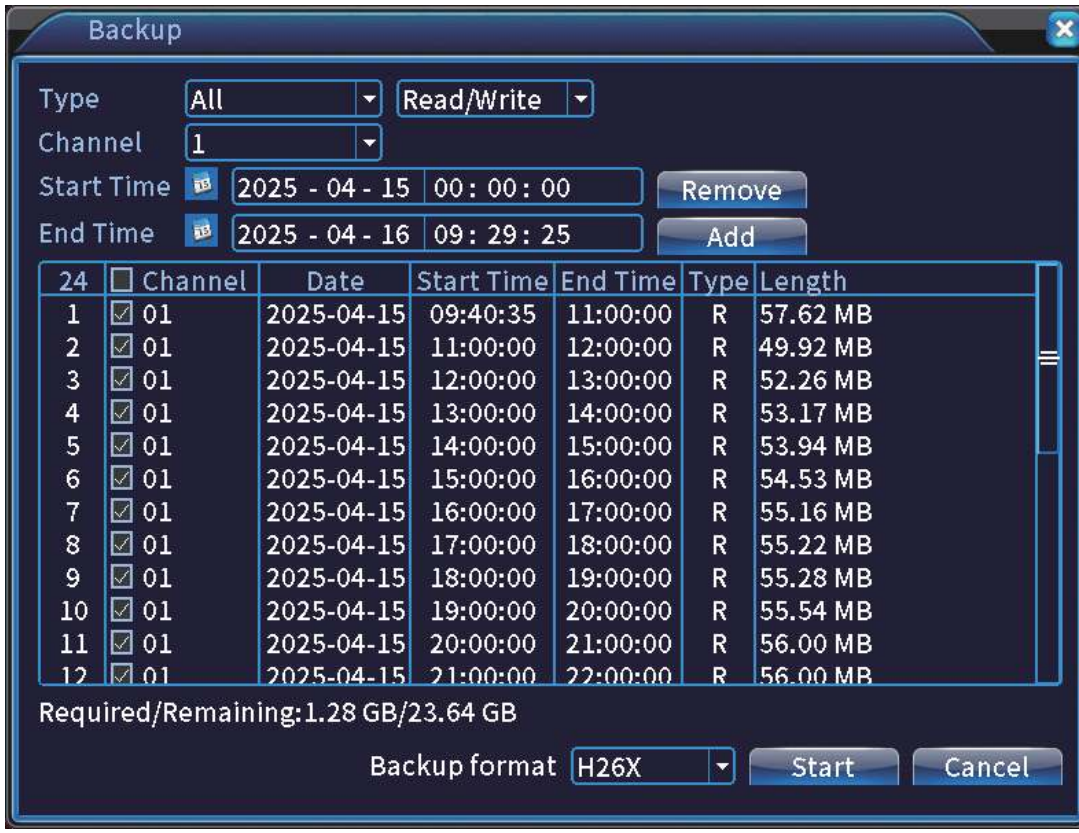


Figure 6-5

Type
Here can filter the required video clip types, including: motion detect, Alarm and motion detect, manual record, general record.

Channel
Select the channel number of the video file to be backed up from the drop-down menu.

Start Time/End Time
Query the start and end time of the video file.

Add
After selecting the start and end time, click the Add button, and the retrieved video file information will be displayed in the result column.

Remove

Clear the file information displayed in the result column.

Backup format

Click the drop-down menu to select the format of the backup file. Choose one of H26X, AVI and MP4 according to your needs.

NOTE **H26X format files require a dedicated player to play.**

Start/Stop

After selecting the files and backup formats to be backed up, click Start to back up, or click Stop to stop the backup;

NOTE **During backup, you can exit this page to perform other functions.**

6.3 Alarm

Alarm functions include: Intelligengt alert, abnormality, human detect, face detection, vehicle detect, traditional alarm(video loss, video blind), as shown as Figure 6-6.



Figure 6-6

6.3.1 Intelligent Alert

By analyzing the video images, when the system detects a motion signal that reaches the preset sensitivity, it activates the motion detection alarm and starts the linkage function.

After the DVR local end turns on the human detect function and linkage items, the corresponding functions of the corresponding front-end devices will be synchronized, including sensitivity, region, interval time, record channel, tour, snapshot, PTZ activation, post rec, send email, write log, FTP upload, Mobile reported, and alarm. At this time, the user can complete the human detect alarm settings at one time without having to set the corresponding alarm configuration separately on the remote device, as shown in Figure 6-7.

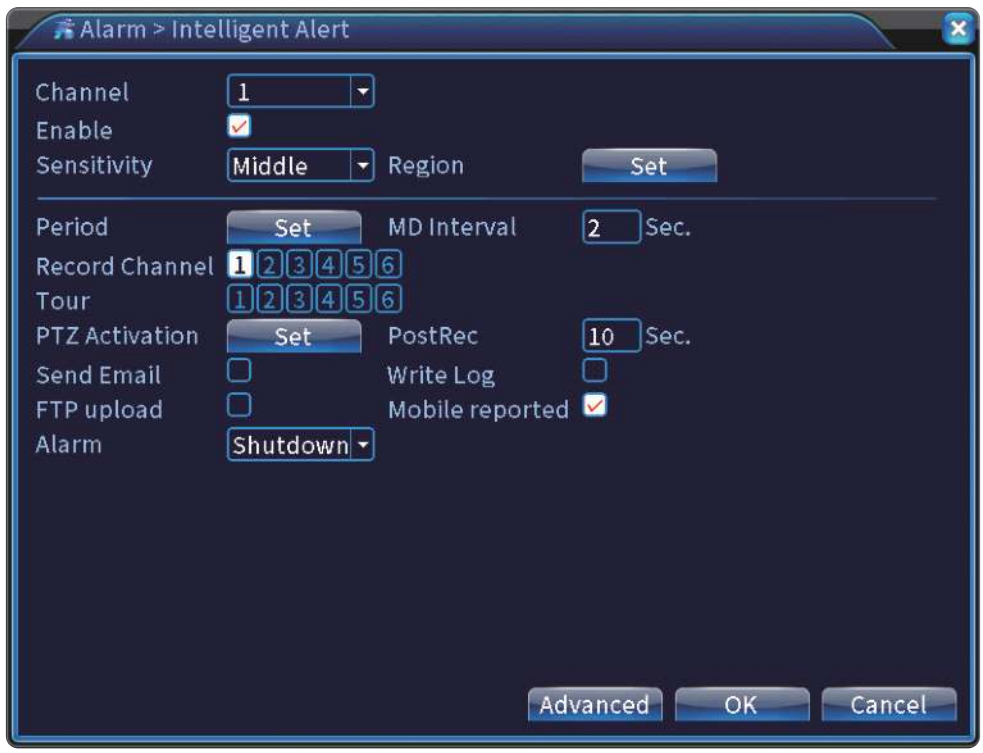


Figure 6-7

Channel

Click the drop-down menu to select the channel number for setting motion detection.

Enable

Select to turn on the motion detection function. You can make corresponding settings only after it is enabled.

Sensitivity

There are six levels of alarm sensitivity to choose from: lowest, lower, medium, higher, very high, and highest. The higher the sensitivity, the easier it is to trigger the alarm, but the false alarm rate will also increase.

Region

Click Settings to enter the area settings page. The area is divided into 16x12, the red area is the dynamic detection area, and the black area is the undefended area, as shown in Figure 4-26. Press and hold the left mouse button to draw the setting area (all areas are selected as monitoring areas by default).

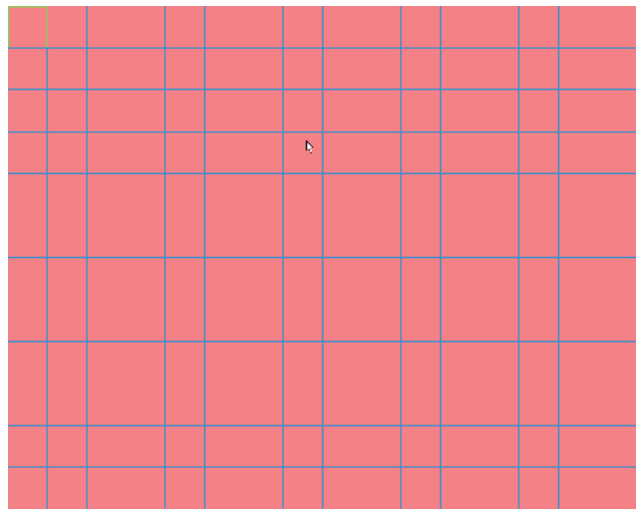


Figure 6-8

Period

The motion detection signal is triggered within the set time period. It can be set weekly or uniformly. Each day is divided into four time periods.

indicates that the setting is effective. As shown as Fingure 6-9.

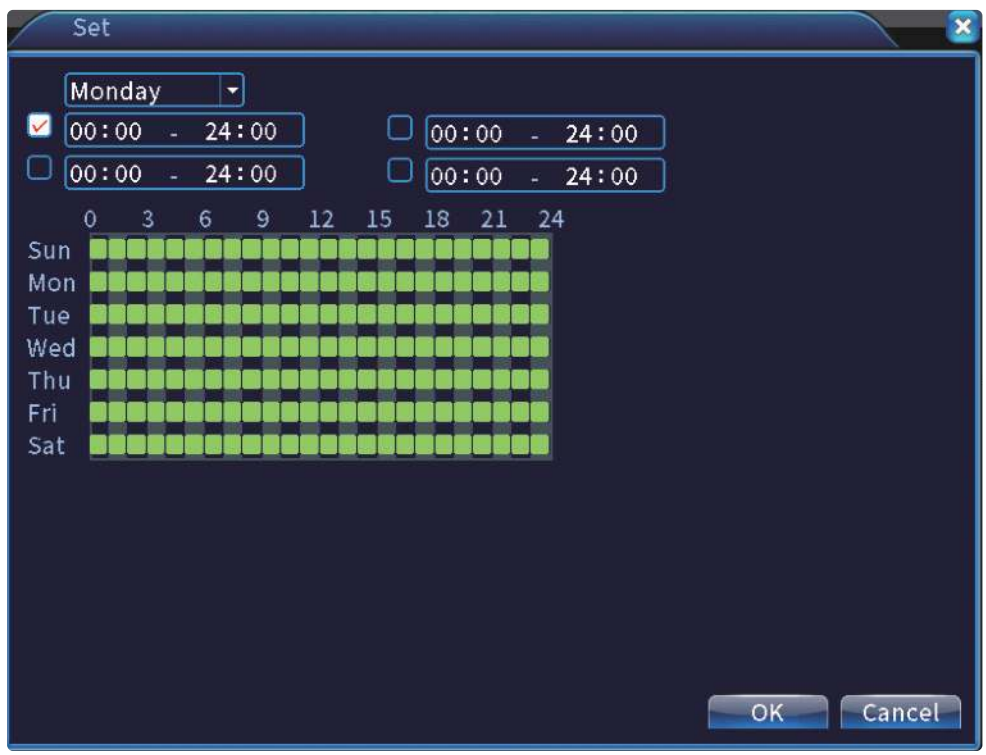


Figure 6-9

MD Interval

Within the set interval, if the motion detection alarm is triggered multiple times, only one alarm signal will be output.

Record Channel

Set the channel number for linkage recording when the motion detection alarm is triggered (multiple selections are allowed); when the alarm occurs, the recorder will record the selected channel.

NOTE

To use this function, you need to change the recording mode to configuration in [Main Menu] > [Record] > [Record Conf.] and set the effective time period and start detection recording.

Tour

Set the channel number to be linked to full-screen display when the motion detection alarm is triggered (multiple selections are allowed); when an alarm occurs, the recorder will display the selected channel in full screen in a loop.

Snapshot

Set the channel number for motion detection alarm. When an alarm occurs, the recorder will generate a snapshot and store it in the Snapshot partition of the hard disk.

PTZ Activation

Set the activation mode of the PTZ when an alarm occurs, including preset points, tour, and pattern.

In digital mode, PTZ link to the related PTZ information of analog channel;
In Hybrid mode, the PTZ is link to the related PTZ information on the remote device connected.

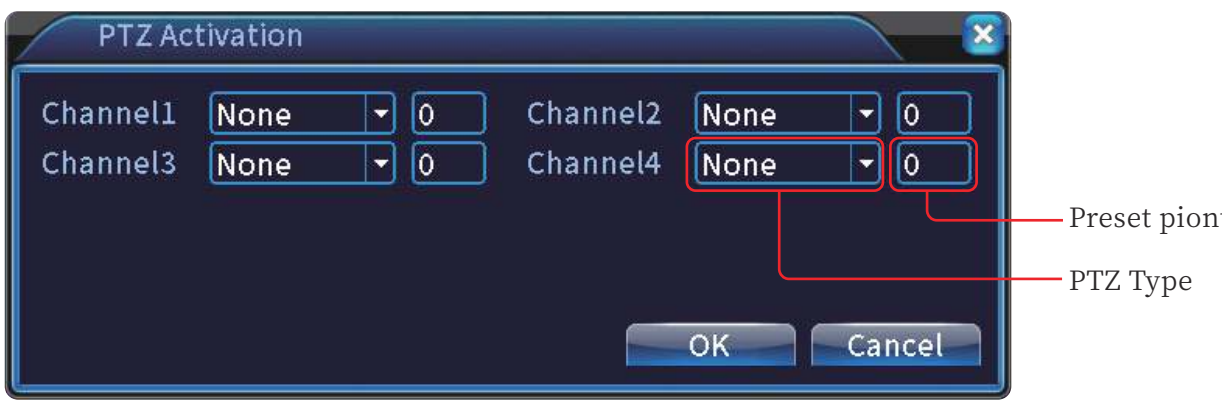


Figure 6-10

NOTE

To link PTZ, need go [Shortcut menu] menu]-->[PTZ control] to set preset point, tour between points & interval time, etc.

PostRec

Set the time for the recorder to continue recording after the motion detection alarm ends. The setting range is 10~300 seconds.

Send Email

When this feature is turned on, it means that when an alert is triggered, an email will be sent to the user.

Write Log

After enabling this function, the alarm information will be written into the system log information. Users can query the alarm log information in [Main Menu] > [Info] > [LOG].

FTP upload

After enabling this function, the recorder will upload the alarm video or pictures to the specified FTP server when the motion detection alarm is triggered.

NOTE **Before using this function, you need to set up the FTP server in [Main Menu] > [System> [NetServe] > [FTP] and the DVR must be able to connect to the FTP server.**

Mobile reported

After enabling this function, when the recorder triggers an alarm, the alarm information will be automatically pushed to the bound APP.

NOTE **Before using this function, users need to enable the mobile phone reporting function in [Main Menu] > [System] > [NetServe], install our mobile client APP on the mobile device and add the recorder to the client.**

Alarm

You can set the DVR to emit a buzzer or a speaker when it detects an alarm. The DVR has two built-in voice prompts, which can also be customized.

NOTE **The DVR needs to be connected to a speaker or other audio output device at the Audio Output interface.**

6.3.2 Abnormality

Analyze and detect the current software and hardware status of the device: When certain abnormal events occur in the device, the device will respond accordingly, such as displaying information, voice prompt, buzzer sounding, etc., as shown as Figure 6-11.

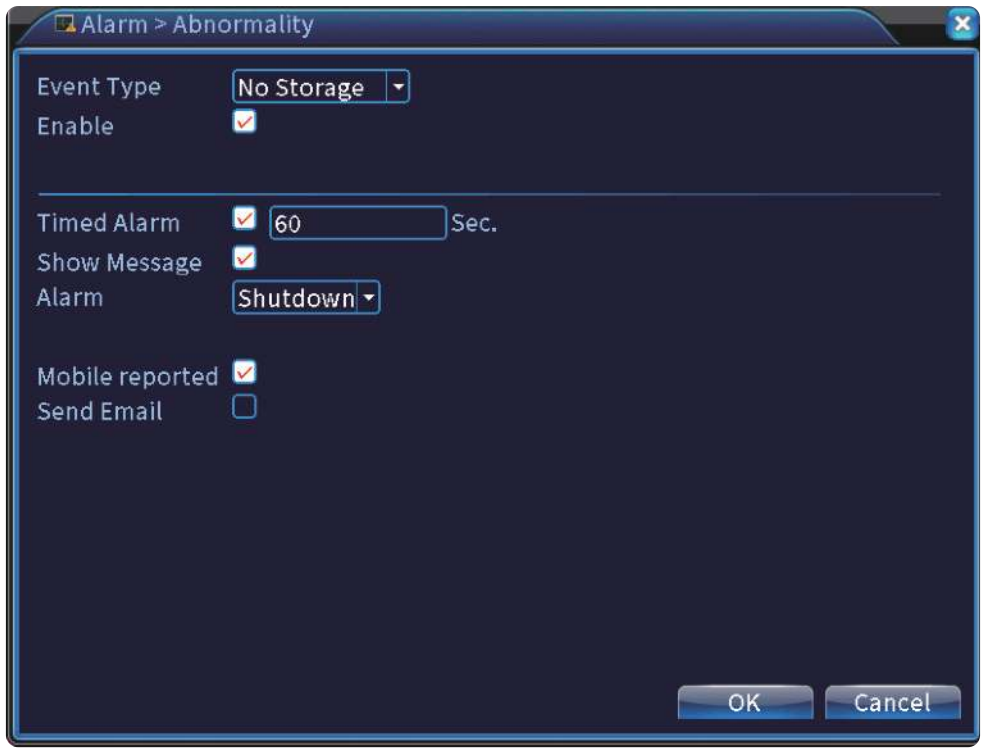


Figure 6-11

Event Type
selecting abnormity you want to inspect, No Storage, Storage Device Error, Storage No Space, Net Disconnection and IP Conflict. (Figure 4-30)

Enable
Select it to ensure that the abnormality function selected above are turned on.

Timed Alarm
Set the abnormal reminder time interval.

Show Message
Automatically alarm cue dialog box come out of the main screen.

Alarm
You can set the DVR to sound a buzzer or speaker when it detects abnormality. The DVR has built-in voice prompts, which can also be customized.

NOTE **The DVR needs to be connected to a speaker or other audio output device at the Audio Output interface.**

Mobile reported

After turning on this function, when the DVR triggers an abnormal alarm, the alarm information will be automatically pushed to the bound APP.

NOTE **Before using this function, users need to enable the mobile phone reporting function in [Main Menu] > [System] > [NetServe], install our mobile client APP on the mobile device and add the recorder to the client.**

Send Email

When this feature is turned on, it means that an email will be sent to the user when an abnormal alert occurs.

6.3.3 Human Detect

By analyzes the video image and when it detects a human-shaped image signal, it triggers the Human detect alarm and starts the linkage function.

After the DVR local end turns on the human detect function and linkage items, the corresponding functions of the corresponding front-end devices will be synchronized, including wander time, alarm light, time period, interval time, record channel, tour, snapshot, PTZ activation, post rec, send email, write log, FTP upload, Mobile reported, and alarm. At this time, the user can complete the human detect alarm settings at one time without having to set the corresponding alarm configuration separately on the remote device, as shown in Figure 6-12.

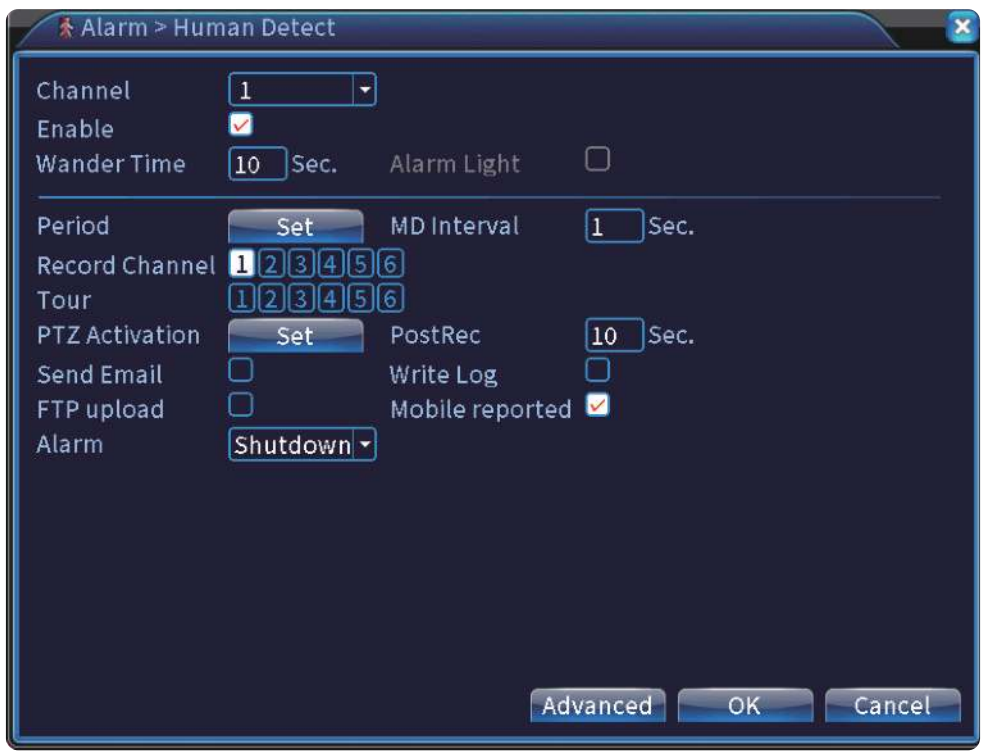


Figure 6-12

Channel
Click the drop-down menu to select the channel number for setting Human detect.

Enable
Select to turn on the Human detect function. You can make corresponding settings only after it is enabled.

Wander Time
When someone wanders in the monitoring area for longer than the set time, the human detect alarm will be triggered.

Alarm Light
After turning on this function, the human detect trigger will cause the camera to switch to white light immediately. (The camera needs to support white light)

Period
The DVR triggers the human detect alarm signal only in the set time period, as shown in the figure below. You can set it by week or uniformly, with four time periods set every day. Select the check box before the time period, and the set time will take effect, as shown in Figure 6-13.

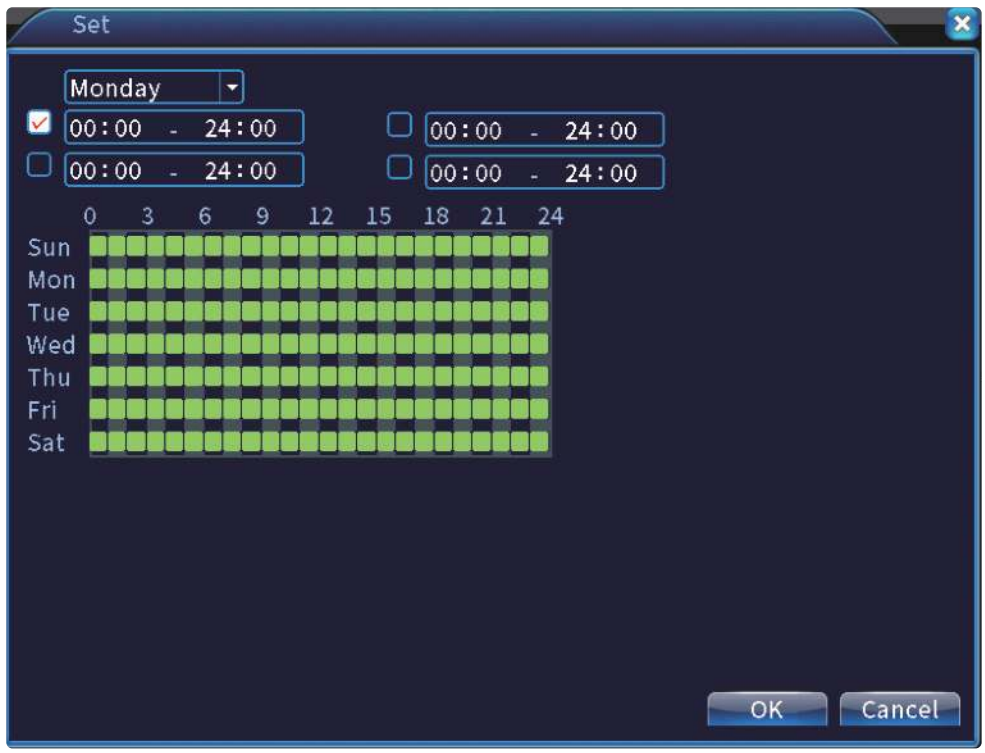


Figure 6-13

MD Interval

If the human detect alarm is triggered multiple times within the set time interval, the alarm signal will only be output once.

Record Channel

Set the channel number (multiple selections are allowed) for linkage recording when human detect alarm occurs. When an alarm occurs, DVR will record the selected channel.

NOTE **To use this function, you need to change the recording mode to configuration in [Main Menu] > [Record] > [Record Conf.] and set the effective time period and start detection recording.**

Tour

Set the channel number (multiple selections) to be linked to full-screen display when a human detect alarm occurs; when an alarm occurs, the recorder will display the selected channel in full-screen in a loop.

Snapshot

Set the channel number for human detect alarm. When an alarm occurs, the recorder will generate a snapshot and save it in the Snapshot partition of the hard disk.

PTZ Activation

Set the activation mode of the PTZ when an alarm occurs, including preset points, tour, and pattern.

In digital mode, PTZ link to the related PTZ information of analog channel;
In Hybrid mode, the PTZ is link to the related PTZ information on the remote device connected.

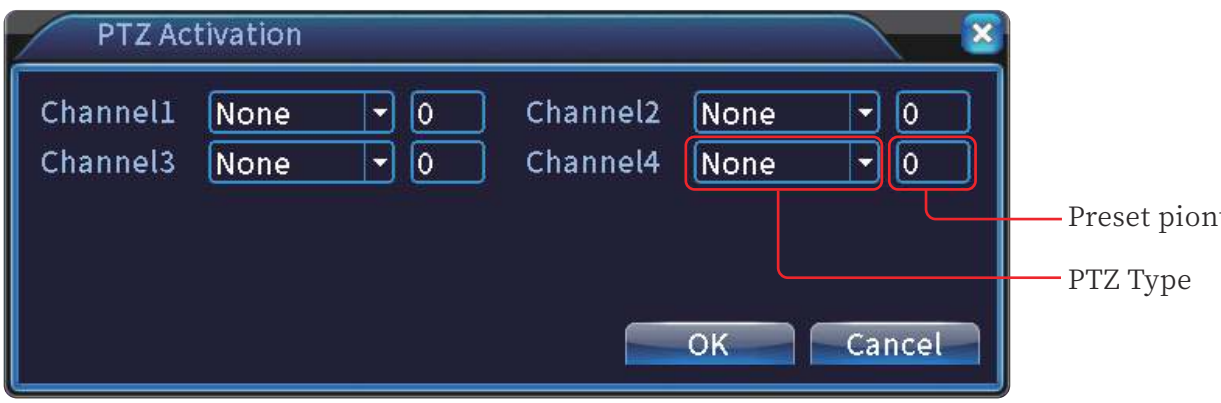


Figure 6-14

NOTE **To link PTZ, need go [Shortcut menu] menu]-->[PTZ control] to set preset point, tour between points & interval time, etc.**

PostRec

When this feature is turned on, it means that when an alert is triggered, an email will be sent to the user.

Send Email

When this feature is turned on, it means that when an alert is triggered, an email will be sent to the user.

Write Log

After enabling this function, the alarm information will be written into the system log information. Users can query the alarm log information in [Main Menu] > [Info] > [LOG].

FTP upload

After enabling this function, the recorder will upload the alarm video or pictures to the specified FTP server when the motion detection alarm is triggered.

NOTE **Before using this function, you need to set up the FTP server in [Main Menu] > [System> [NetServe] > [FTP] and the DVR must be able to connect to the FTP server.**

Mobile reported

After enabling this function, when the recorder triggers an alarm, the alarm information will be automatically pushed to the bound APP.

NOTE **Before using this function, users need to enable the mobile phone reporting function in [Main Menu] > [System] > [NetServe], install our mobile client APP on the mobile device and add the recorder to the client.**

Alarm

You can set the DVR to emit a buzzer or a speaker when it detects an alarm. The DVR has two built-in voice prompts, which can also be customized.

NOTE **The DVR needs to be connected to a speaker or other audio output device at the Audio Output interface.**

6.3.4 Face Detect

By analyzing the video image, when a face image signal is detected, the face detect alarm is triggered and the linkage function is started.

After the DVR local end opens the face detection function and linkage items, the corresponding functions of the corresponding front-end devices will be set synchronously, including time period, MD Interval, tour, PTZ activation, send email, write log, mobile reporting, and alarm prompts. At this time, the user can complete the face detection alarm settings at one time without having to set the corresponding alarm configuration separately on the remote device, as shown in Figure 4-34.

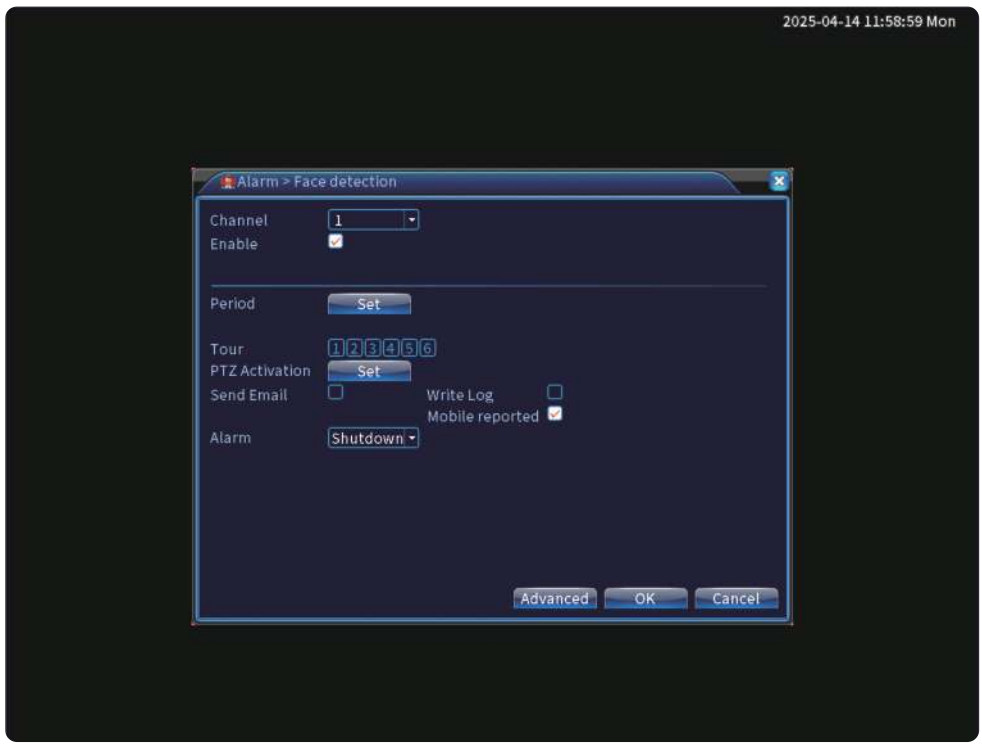


Figure 6-15

Channel

Click the drop-down menu to select the channel number for setting Face detection.

Enable

Select to turn on the face detection function. You can make corresponding settings only after it is enabled.

Period

The DVR triggers the face detect alarm signal only within the set time period, as shown in the figure below. You can set it by week or uniformly, with four time periods set every day. Select the check box before the time period, and the set time will take effect, as shown in Figure 6-16.

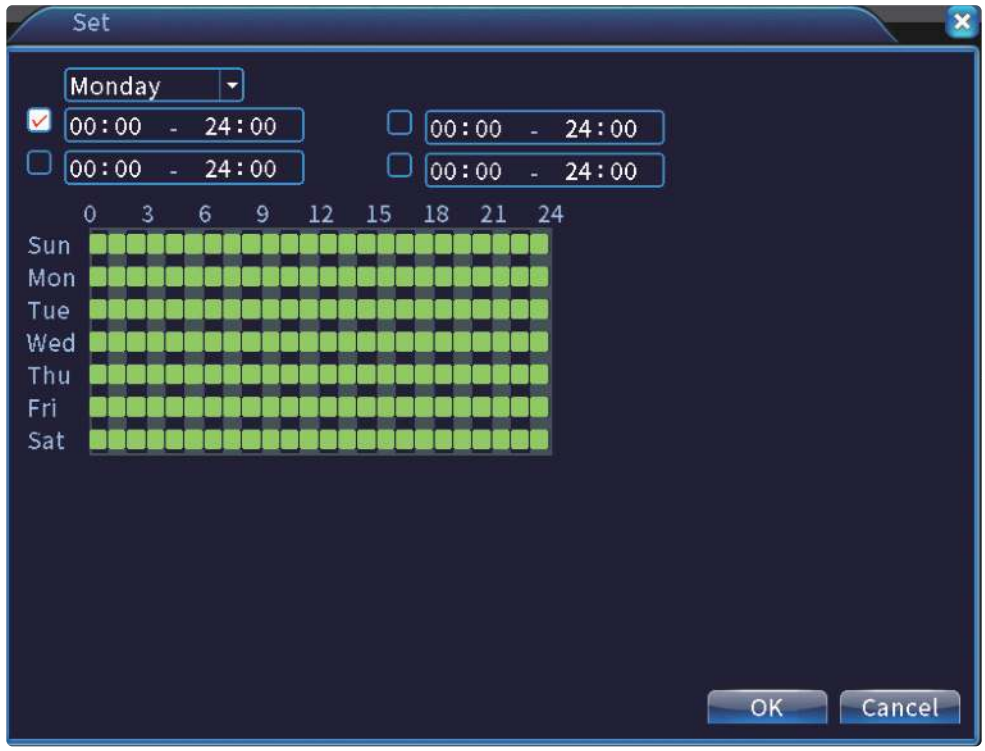


Figure 6-16

Tour

Set the channel number (multiple selections) to be linked to full-screen display when a face detect alarm occurs; when an alarm occurs, the recorder will display the selected channel in full-screen in a loop.

PTZ Activation

Set the activation mode of the PTZ when an alarm occurs, including preset points, tour, and pattern.

In digital mode, PTZ link to the related PTZ information of analog channel;
In Hybrid mode, the PTZ is link to the related PTZ information on the remote device connected.



Figure 6-17

NOTE **To link PTZ, need go [Shortcut menu] menu]-->[PTZ control] to set preset point, tour between points & interval time, etc.**

Send Email
When this feature is turned on, it means that when an alert is triggered, an email will be sent to the user.

Write Log
After enabling this function, the alarm information will be written into the system log information. Users can query the alarm log information in [Main Menu] > [Info] > [LOG].

Mobile reported
After enabling this function, when the recorder triggers an alarm, the alarm information will be automatically pushed to the bound APP.

NOTE **Before using this function, users need to enable the mobile phone reporting function in [Main Menu] > [System] > [NetServe], install our mobile client APP on the mobile device and add the recorder to the client.**

Alarm
You can set the DVR to emit a buzzer or a speaker when it detects an alarm. The DVR has two built-in voice prompts, which can also be customized.

NOTE **The DVR needs to be connected to a speaker or other audio output device at the Audio Output interface.**

6.3.5 Vehicle Detect

By analyzing the video image, when a face image signal is detected, the face detect alarm is triggered and the linkage function is started.

After the DVR local end opens the vehicle detection function and linkage items, the corresponding functions of the corresponding front-end devices will be set synchronously, including time period, record channel, tour, PTZ activation, send email, write log, mobile reporting, and alarm prompts. At this time, the user can complete the face detection alarm settings at one time without having to set the corresponding alarm configuration separately on the remote device, as shown in Figure 6-18.

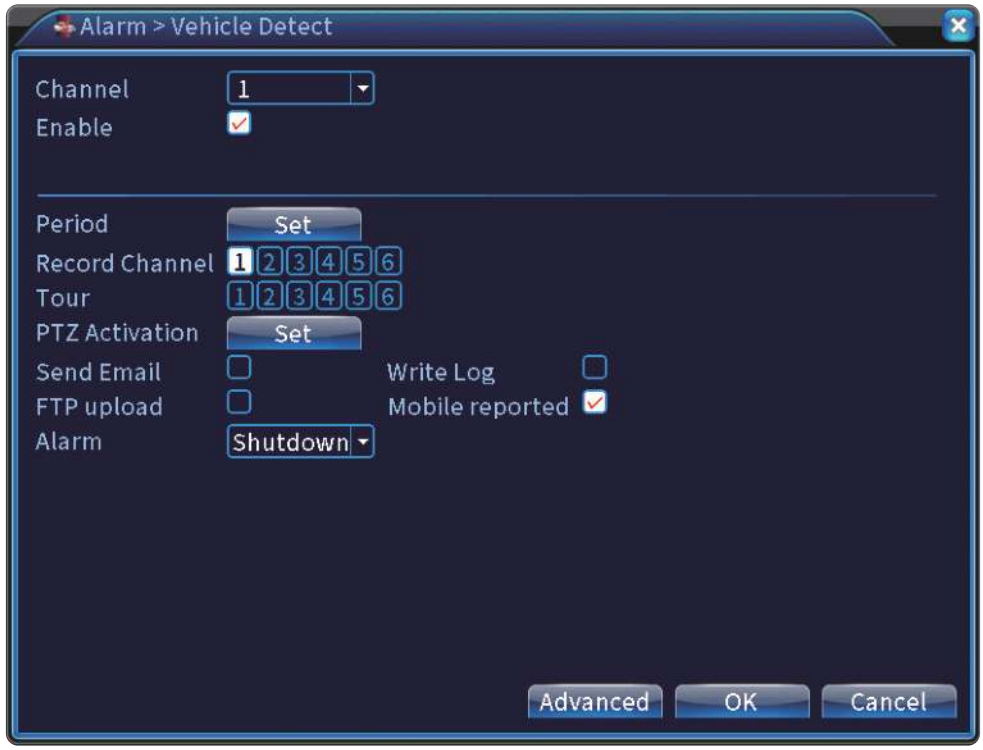


Figure 6-18

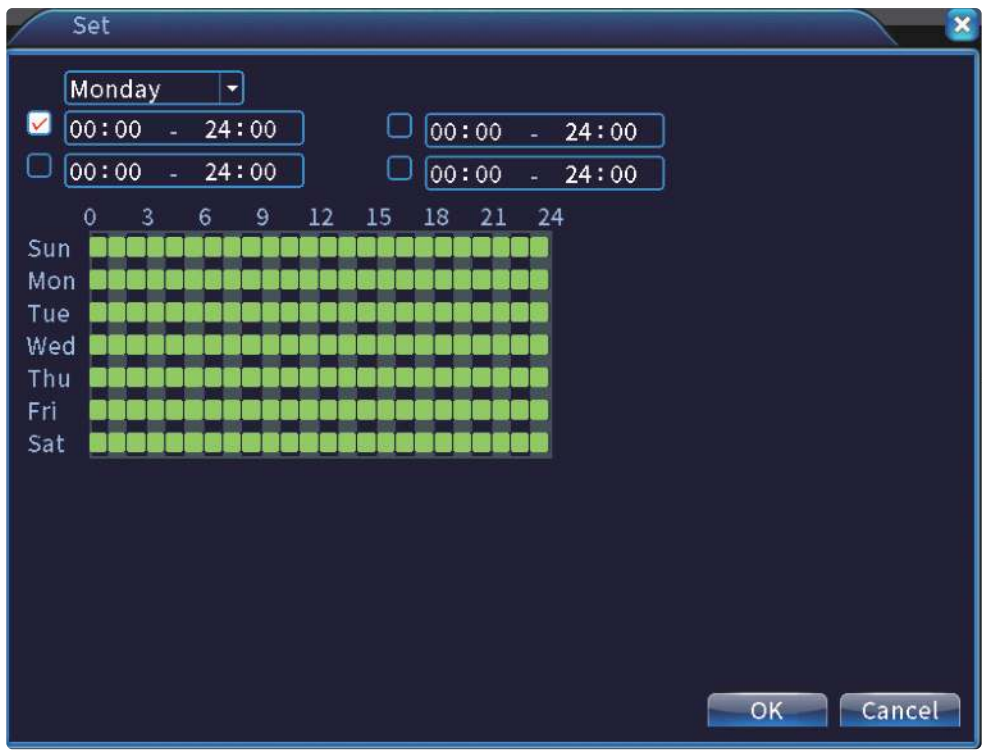


Figure 6-19

Channel
Click the drop-down menu to select the channel number for setting Vehicle detection.

Enable
Select to turn on the Vehicle detection function. You can make corresponding settings only after it is enabled.

Period
The motion detection signal is triggered within the set time period. It can be set weekly or uniformly. Each day is divided into four time periods.
indicates that the setting is effective. As shown as Fingure 6-9.

Record Channel
Set the channel number (multiple selections are allowed) for linkage recording when vehicle detect alarm occurs. When an alarm occurs, DVR will record the selected channel.

NOTE **To use this function, you need to change the recording mode to configuration in [Main Menu] > [Record] > [Record Conf.] and set the effective time period and start detection recording.**

Tour
Set the channel number (multiple selections) to be linked to full-screen display when a vehicle detect alarm occurs; when an alarm occurs, the recorder will display the selected channel in full-screen in a loop.

PTZ Activation
Set the activation mode of the PTZ when an alarm occurs, including preset points, tour, and pattern.
In digital mode, PTZ link to the related PTZ information of analog channel;
In Hybrid mode, the PTZ is link to the related PTZ information on the remote device connected.

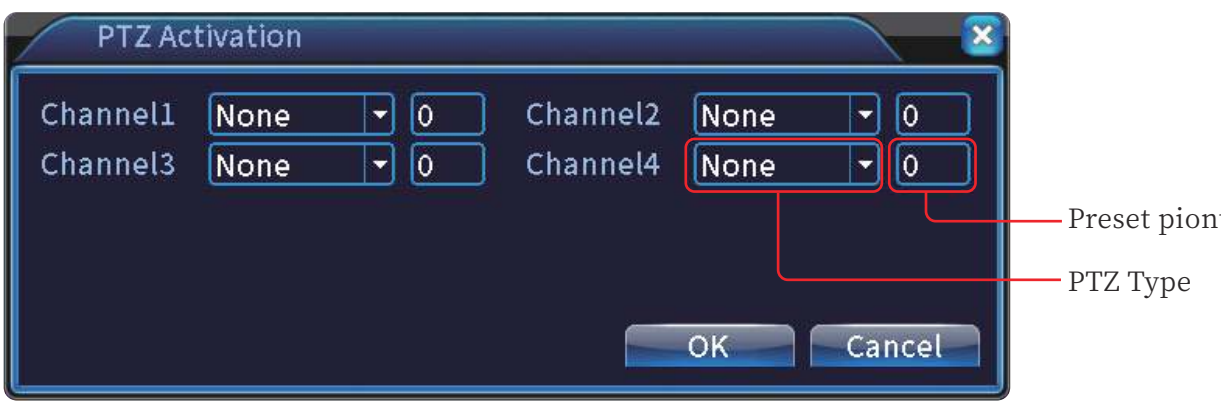


Figure 6-20

NOTE **To link PTZ, need go [Shortcut menu] menu]-->[PTZ control] to set preset point, tour between points & interval time, etc.**

Send Email

When this feature is turned on, it means that when an alert is triggered, an email will be sent to the user.

Write Log

After enabling this function, the alarm information will be written into the system log information. Users can query the alarm log information in [Main Menu] > [Info] > [LOG].

Mobile reported

After enabling this function, when the recorder triggers an alarm, the alarm information will be automatically pushed to the bound APP.

NOTE **Before using this function, users need to enable the mobile phone reporting function in [Main Menu] > [System] > [NetServe], install our mobile client APP on the mobile device and add the recorder to the client.**

Alarm

You can set the DVR to emit a buzzer or a speaker when it detects an alarm. The DVR has built-in voice prompt, which can also be customized.

NOTE **The DVR needs to be connected to a speaker or other audio output device at the Audio Output interface.**

6.3.6 Traditional Alarm

Traditional alarm provide video blind, video loss alarm and alarm input functions.

NOTE **To use the Alarm input function, you need to switch to Hybrid mode and connect to the IPC.**

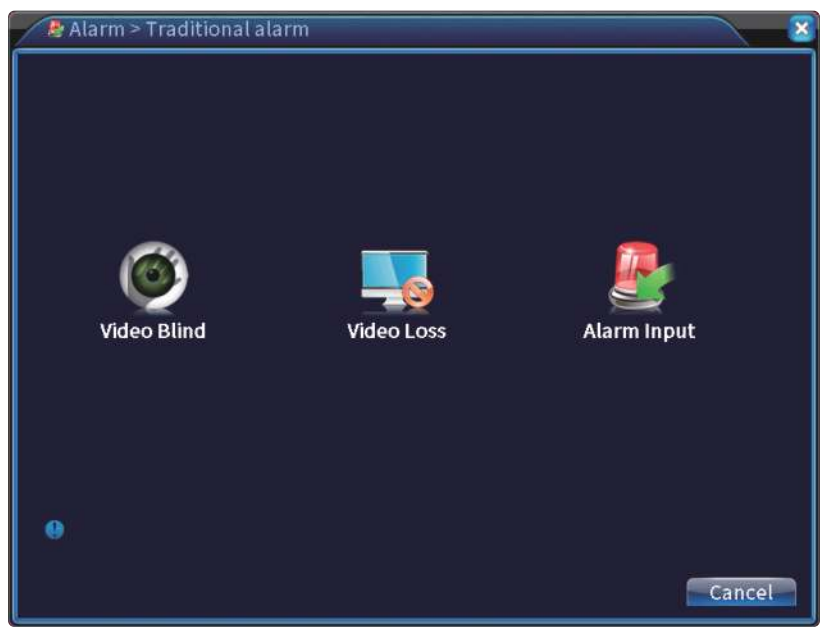


Figure 6-21

6.3.6.1 Video Blind & Video Loss

When the video image transmitted from the front-end camera to the DVR is affected by external factors and the light intensity reaches the set sensitivity parameter, the video blockage alarm is triggered and the linkage function is started, as shown in Figure 6-22.

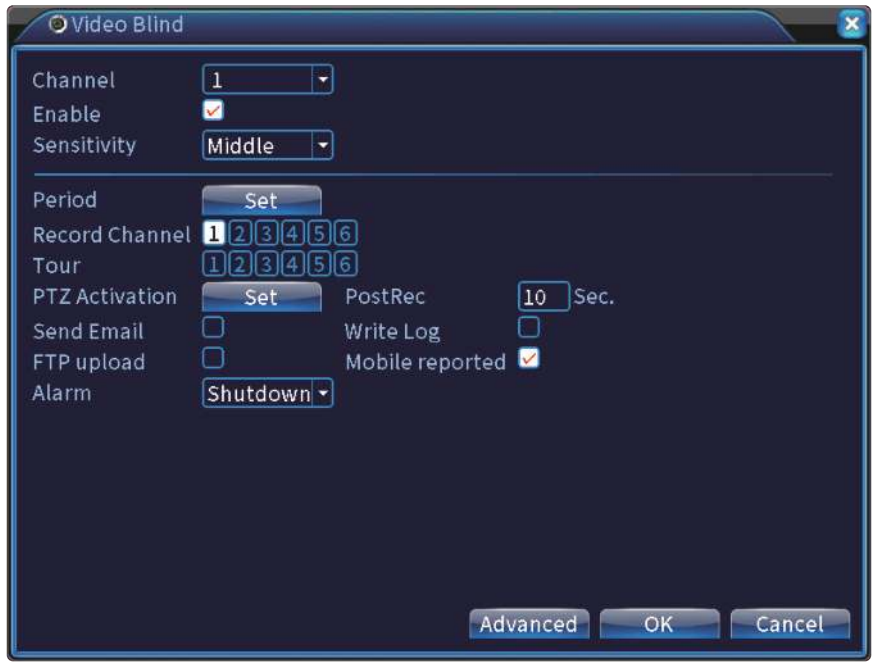


Figure 6-22

When the recorder cannot obtain the video signal transmitted by the front-end camera, the video loss alarm is activated and the linkage function is started, as shown in Figure 6-23.

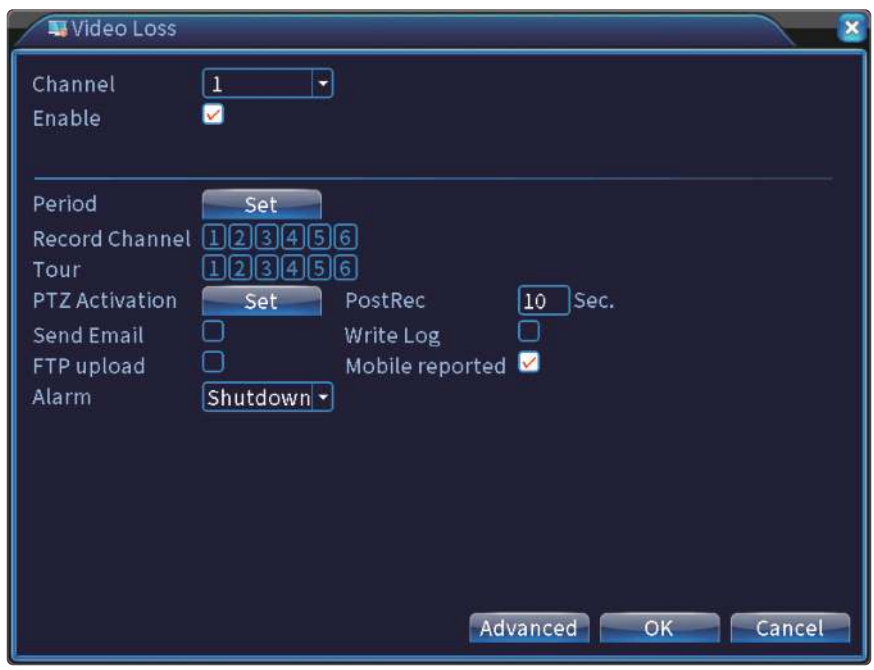


Figure 6-23

Channel

Click the drop-down menu to select the channel number for setting video blind or video loss.

Enable

Select to turn on the video blind or video loss function. You can make corresponding settings only after it is enabled.

Sensitivity

There are six levels of alarm sensitivity to choose from: lowest, lower, medium, higher, very high, and highest. The higher the sensitivity, the easier it is to trigger the alarm, but the false alarm rate will also increase.

Period

The DVR detects video blocking or video loss alarms only during the set time period, as shown in the figure below. You can set it by week or uniformly, with four time periods set every day. Select the check box before the time period for the set time to take effect, as shown in Figure 6-24.

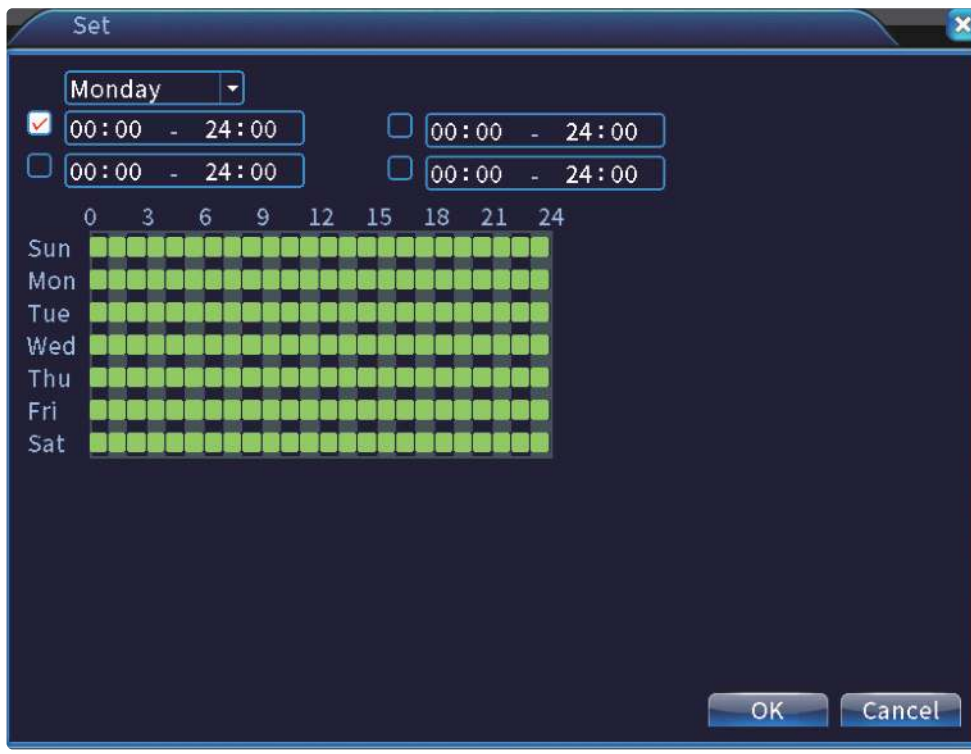


Figure 6-24

Record Channel

Set the channel number (multiple selections are allowed) for linkage recording when video blind or video loss alarm occurs. When an alarm occurs, DVR will record the selected channel.

NOTE **To use this function, you need to change the recording mode to configuration in [Main Menu] > [Record] > [Record Conf.] and set the effective time period and start detection recording.**

Tour

Set the channel number (multiple selections) to be linked to full-screen display when video blind or video loss occurs; when video blind or video loss occurs, the recorder will display the selected channel in full screen in a loop.

PTZ Activation

Set the PTZ activation when the alarm is turned on.
Hybrid mode, PTZ link to the related PTZ information of analog channel, While digital channel model, the PTZ is link to the related PTZ information on the remote device connected.

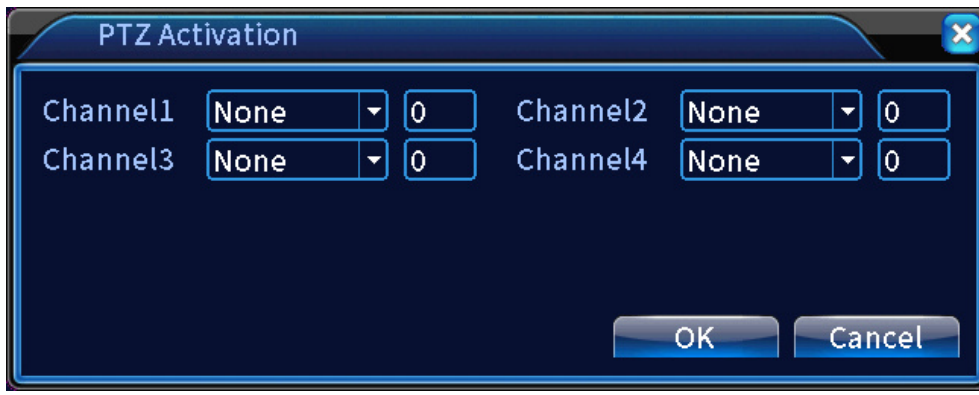


Figure 4-44

NOTE **To link PTZ, need go [Shortcut menu] menu]-->[PTZ control] to set preset point, cruise between points & interval time, etc.**

Send Email

When this feature is turned on, it means that when an alert is triggered, an email will be sent to the user.

Write Log

After enabling this function, the alarm information will be written into the system log information. Users can query the alarm log information in [Main Menu] > [Info] > [LOG].

Mobile reported

After enabling this function, when the recorder triggers an alarm, the alarm information will be automatically pushed to the bound APP.

NOTE **Before using this function, users need to enable the mobile phone reporting function in [Main Menu] > [System] > [NetServe], install our mobile client APP on the mobile device and add the recorder to the client.**

Alarm

You can set the DVR to emit a buzzer or a speaker when it detects an alarm. The DVR has built-in voice prompt, which can also be customized.

NOTE **The DVR needs to be connected to a speaker or other audio output device at the Audio Output interface.**

6.3.6 .2 Alarm Input

When used with wired detectors (NO, NC), a linkage occurs when the detector outputs a signal to the DVR, as shown as Figure 6-25.

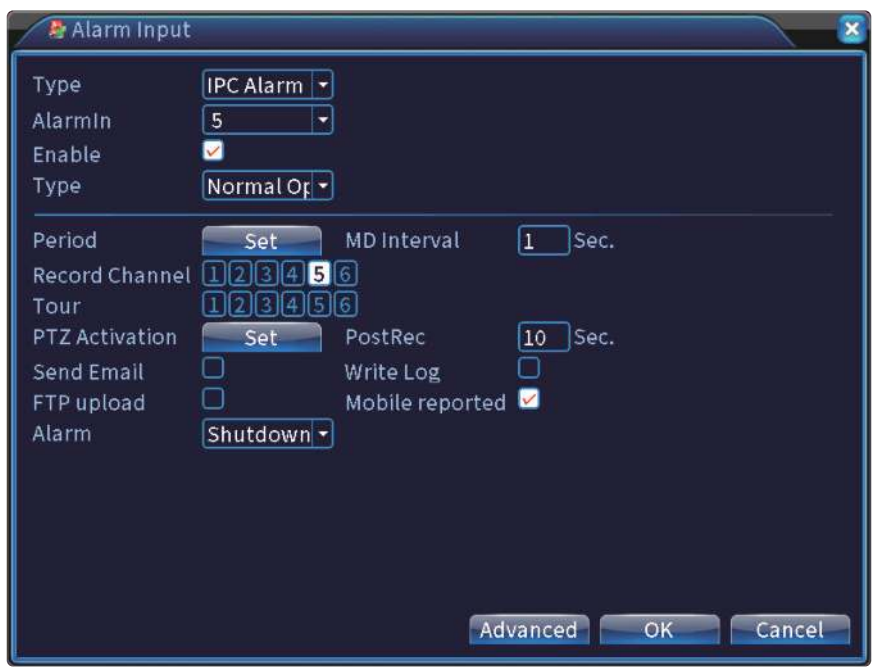


Figure 6-25

6.4 System

Set parameters such as General, Encoding, Network, Network Service, GUI Display, PTZ Configuration, RS485 Device, RS232, PTZ Configuration, Patrol Settings, Digital, XVI Settings, etc., as shown as Figure 6-26.



Figure 6-26

6.4.1 General

You can set Time zone, System Time, Date Format, Date Separator, Time Format, Language, Storage Full, DVR No., Video Standard, Auto Logo, Machine Name here. (Figure 6-27)

NOTE **If you select overwrite for storage full, the original video file will be overwritten when the hard disk space is full. If you select stop, the recording will stop.**

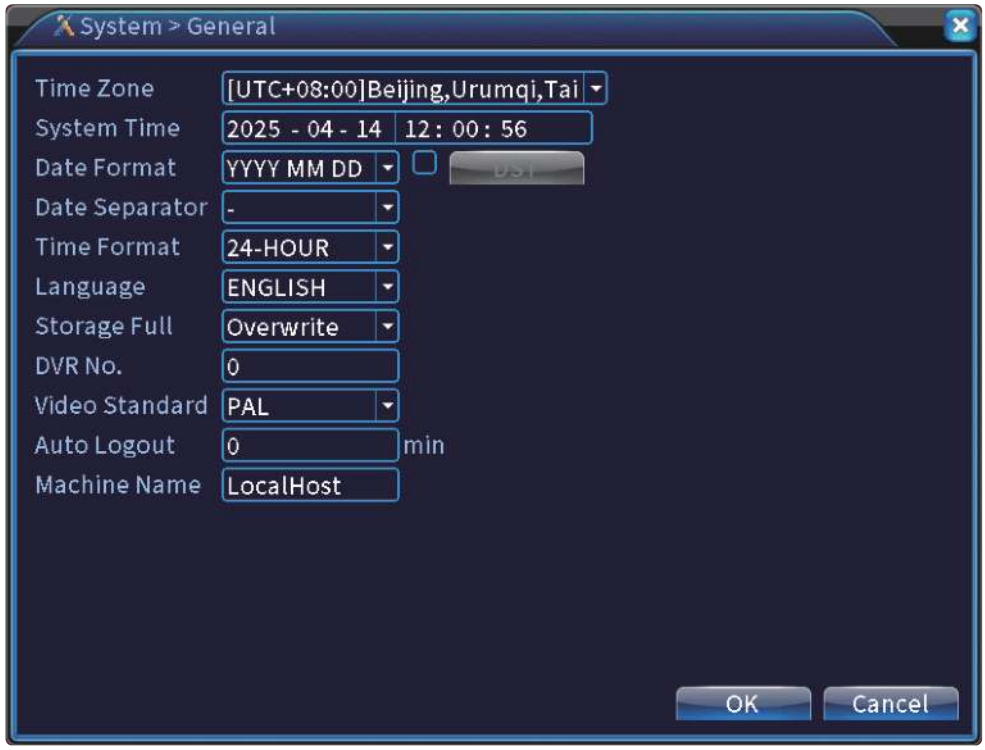


Figure 6-27

Time Zone
Set the time zone where the DVR is located.

System Time
Set the DVR time, it will automatically update if connected to the Internet.

Date Format
Set the date display format.

Date Separator
Sets the date separator.

Time Format
Set the time display format.

Language
support 29 language at present: Arabic, Brazilian, English, French, Greek, Hebrew, Hungarian, Italian, Japanese, Korean, Poland, Portugal, Romanian, Russian, SimpChinese, Spanish, Suomi, Thai, TradChinese, Turkey.

Storage Full
Choose stop record: Stop recording when the hard disk is full.
Choose overwrite: Cover the earliest recording files and continue recording when t he hard disk is full.

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
Set the DVR supported format, PAL or NTSC.

Auto Logout
Set the time for automatic account logout after no operation, ranging from 0-60. 0 means no delay time.

Machine Name
Set the name of the DVR.

6.4.2 Encode

Set the video/audio code parameter: video file, remote monitoring and so on. Set every main stream parameter in the left part, and set the extra stream parameter in the right part.

NOTE **Note: 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.**

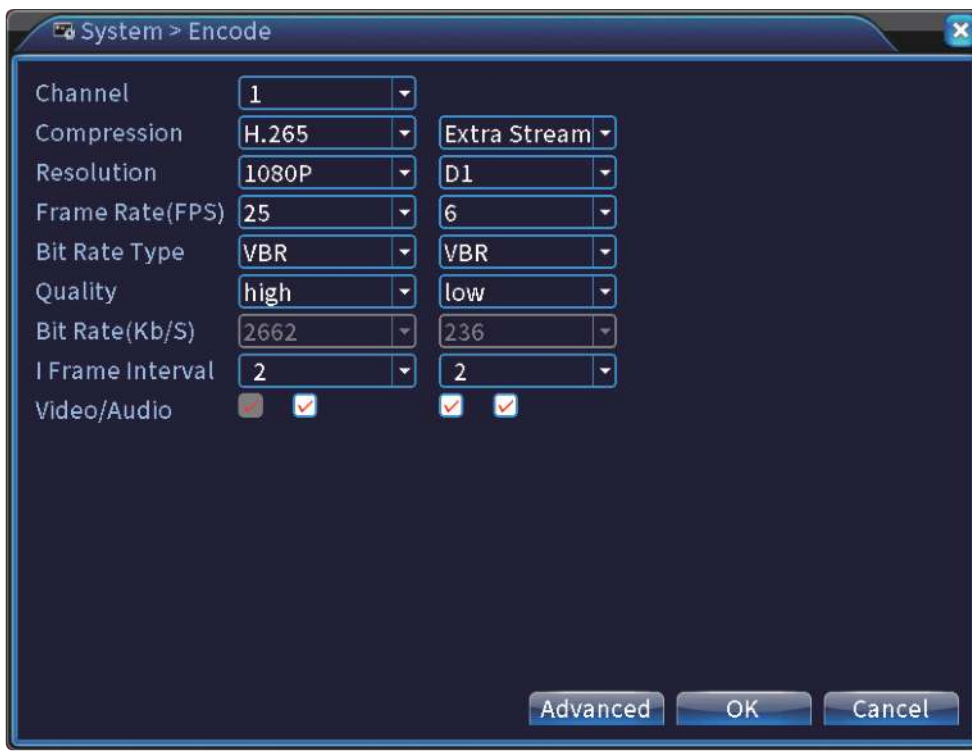


Figure 6-27

Channel
Select the channel you want to adjust.

Compression
Set the encoding compression format for remote monitoring.

Resolution
Set the resolution of the main stream and the extra stream.

Frame Rate(FPS)
Set the frame rate of the main stream and the extra stream.
PAL:1 frame/s~25 frame/s; NTSC: 1 frame/s~30 frame/s.

Bit Rate Type

CBR and VBR are two different encoding methods. Videos encoded with CBR usually have larger storage space, but the video quality is average. In contrast, videos encoded with VBR may take up less storage space, but the quality will vary depending on the content.
If you choose CBR, you cannot manually select the video quality.
If you choose VBR, there are 6 levels of video quality to choose from.

Quality

When VBR is selected in bit rate type, the image quality is optional; the better the image quality, the larger the bitrate value, and the bitrate value changes with the scene. The bitrate value of a moving scene is greater than that of a static scene, and the bitrate value of a complex scene is greater than that of a simple scene.

Bit Rate(Kb/S)

When CBR is selected in bit rate type, the bitrate value is optional. In CBR, no matter what changes occur in the scene, the actual bitrate value will fluctuate around the set value and will not change dramatically.

I Frame Interval

The interval time of key frames can be selected from 2 to 12. The smaller the interval time of key frames, the larger the bitrate value and the better the image quality.

Video/Audio

After audio is checked, the audio function is enabled. After enabling, click the audio icon in the preview screen to monitor the audio. After auxiliary stream is checked, the screen can be previewed through the auxiliary stream.

6.4.3 Network

Network settings include: device IP address, subnet mask, default gateway, DNS, media port, HTTP port, network transmission and network encryption, as shown in Figure 4-2.

NOTE **By default, the DVR has the DHCP client function enabled. The DVR will receive IP, subnet mask, gateway and DNS from the upstream DHCP service. If you want to set it manually, please make sure your settings are feasible.**

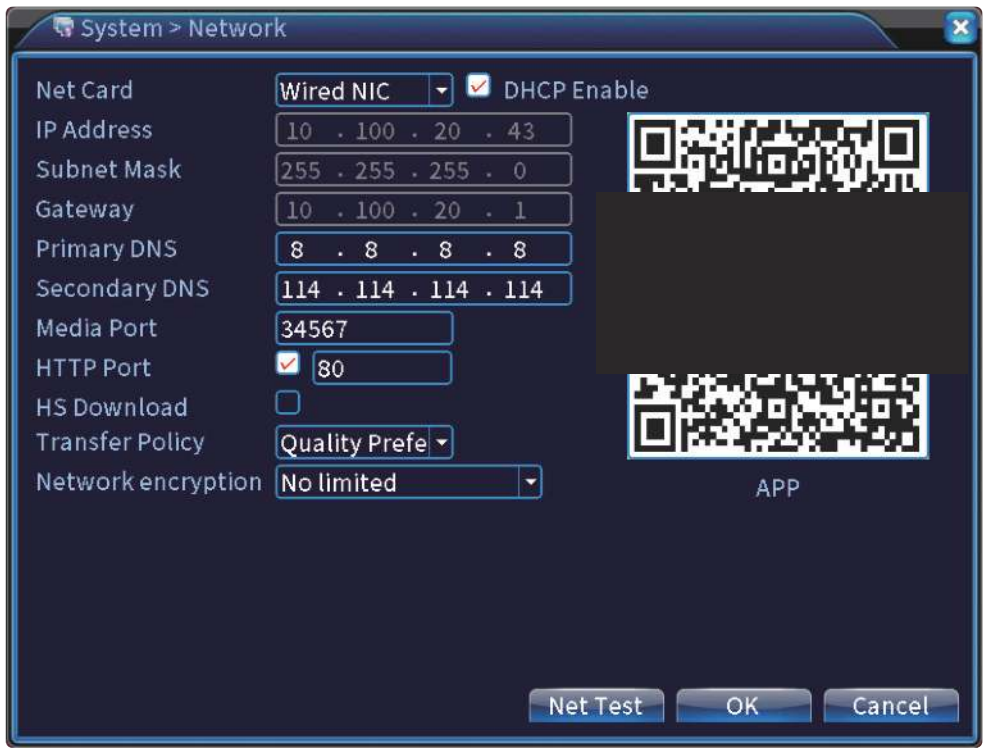


Figure 6-28

Net Card
Select the network card that needs to be configured.

DHCP Enable
Turn on the DVR's DHCP client function to automatically obtain an IP address (not recommended)

IP Address
Set the IP address of the DVR. The IP address needs to be in the same network segment as the LAN. The default IP address is: 192.168.1.9;

Subnet Mask
Set the subnet mask of the recorder, the default subnet mask is: 255.255.255.0;

Gateway
Set the default gateway of the recorder, the default default gateway is: 192.168.1.1;

Primary DNS & Secondary DNS
Domain name resolution server, used to resolve domain names into IP addresses. This address is provided by your network operator. After the setting is completed, you need to restart to take effect.

Media Port
You can choose between 1-65535, the default is 34567. If you want to set it manually, please pay attention to whether the port is occupied.

HTTP Port
You can choose between 1-65535, the default is 80. If you want to set it manually, please pay attention to whether the port is occupied.

HS Download
After enabling, the speed of downloading video files from the network can be increased.

Transfer Policy
Click the drop-down menu to select three network transmission strategies: **adaptive, Quality Preferred and Fluency Preferred**. You can choose the best strategy based on the actual network environment to improve the network preview effect.

Adaptive strategy will automatically adjust the code stream to adapt to the actual network conditions.

Quality Preferred is a compromise between image quality and smoothness, taking into account smoothness without causing a significant impact on image quality;

Fluency Preferred and adaptation are only effective when auxiliary code stream is enabled. If auxiliary code stream is not enabled, it will be adjusted according to network conditions according to image quality priority.

Network encryption
Click the drop-down menu to provide three options: no restriction, remote access requires encryption, and all network access requires encryption. You can select the corresponding encryption policy according to actual needs to improve network security.

QR Code on the right
You can use the app to scan the QR code on the right to quickly add the device to the app. Supported apps include: icsee, xmeye pro (recommended).

6.4.4 NetServer

Network settings include: NTP, EMAIL, IP FLITER, DDNS, FTP, ARSP, AlarmServer, Wireless Config, UPNP, WiFi, RTSP, Cloud, Mobile reported, USB tethering

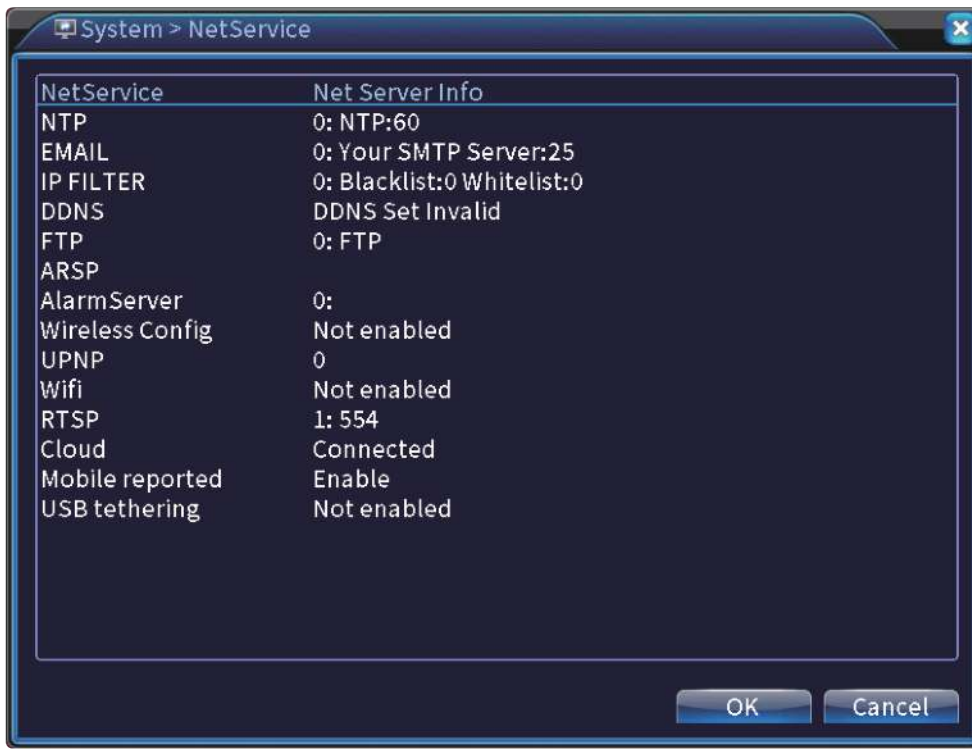


Figure 6-29

6.4.4.1 NTP

Select the network card that needs to be configured.

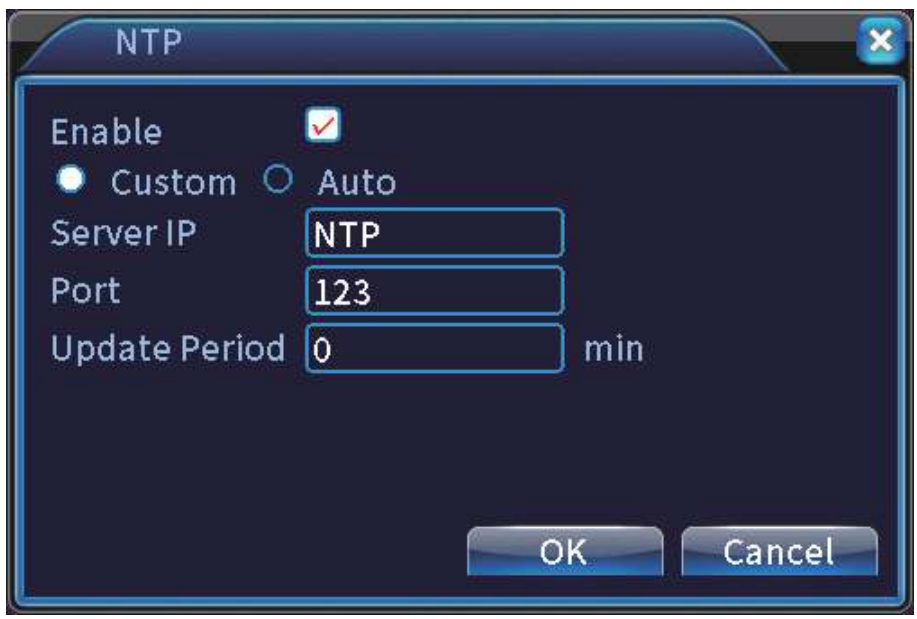


Figure 6-30

By default, NTP is set automatically. The DVR has a built-in NTP server. If you choose Manual, you can set the server and port by yourself. The update time can be 0-65535 minutes. If it is set to 0, there will be no update.

6.4.4.2 EMAIL

Email is used to send alarm emails and pictures to the specified mailbox through the set sending mailbox when an alarm occurs in the recorder; please enable the linkage capture function in the alarm settings before use, otherwise there will be no alarm picture, as shown in Figure 6-31.

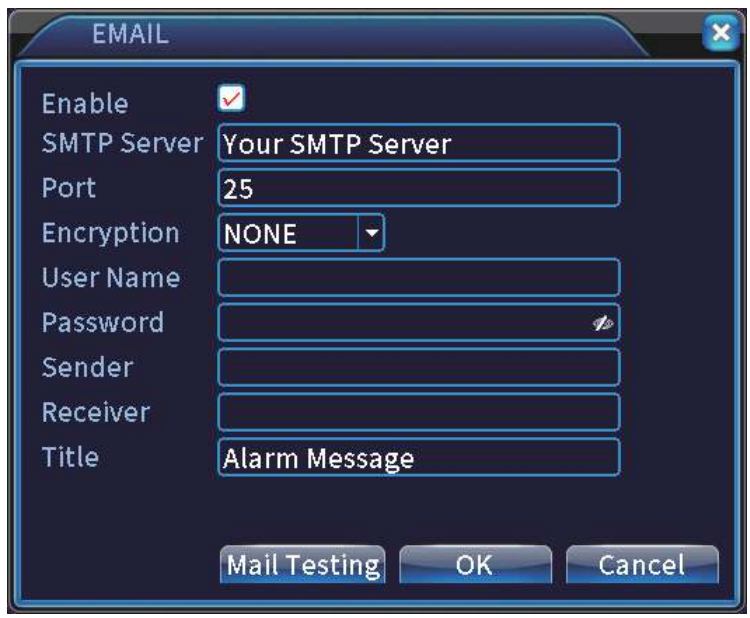


Figure 6-31

[**SMTP Server**] The SMTP server address of the mail outbox, which can be a specific IP address or domain name (if it is a domain name, it is required to confirm that the DNS is correctly set so that the domain name can be correctly resolved);

[**Port**] The port number of the mail server;

[**SSL**] Whether the server requires the use of the Secure Socket Layer to log in;

[**Username and Password**] The username and password of the outbox;

[**Sender**] The full name of the sender's specific email address;

[**Recipient**] The full name of the email address that receives the alarm email. Up to 3 recipients can be set, separated by semicolons;

[**Subject**] The subject of the alarm email, which users can set according to their needs.

[**Mail Testing**] Click mail testing. If you receive an email, the setup is successful.

6.4.4.3 IP Filter

The IP permission setting function restricts the IP addresses that access the DVR through the network, as shown in Figure 6-32.

Whitelist: Indicates that only the IPs in the list can access the network DVR through the network (supports up to 64 IP settings);

Blacklist: Indicates that the IPs in the list cannot access the network DVR through the network (supports up to 64 IP settings);

NOTE **When there are the same IP addresses in the blacklist and whitelist, the blacklist permission has a higher priority.**

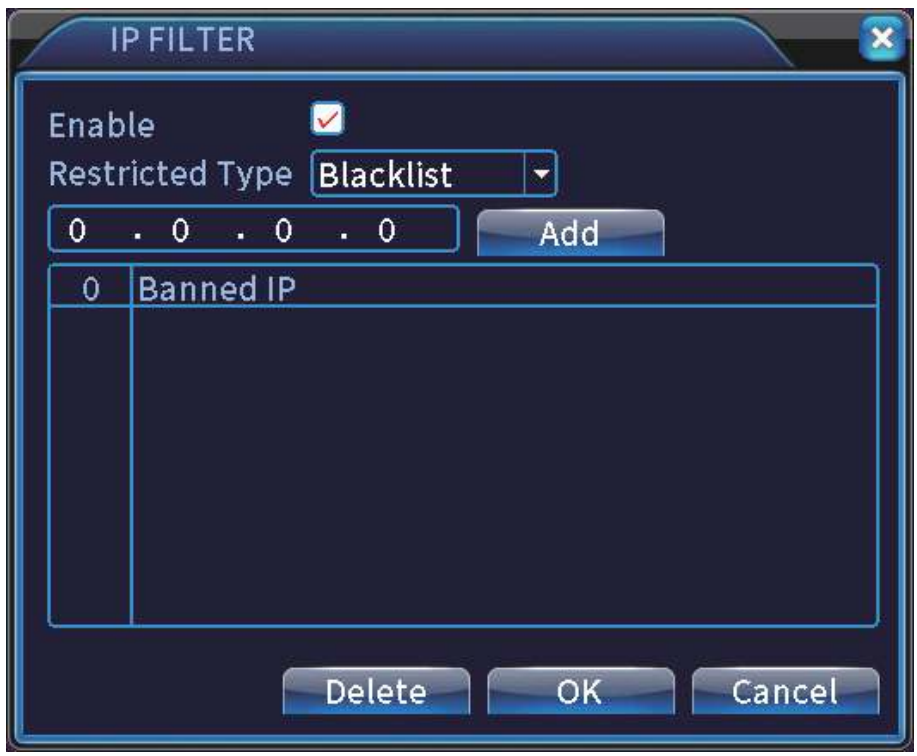


Figure 6-32

6.4.4.4 DDNS

The DDNS function binds the domain name to the IP address of the recorder connected to the WAN through the domain name resolution server, thereby realizing the operation of remote and quick access to the recorder through the WAN.

Before using this function, users need to register with the domain name resolution provider and obtain the domain name usage rights, as shown in Figure 6-33.

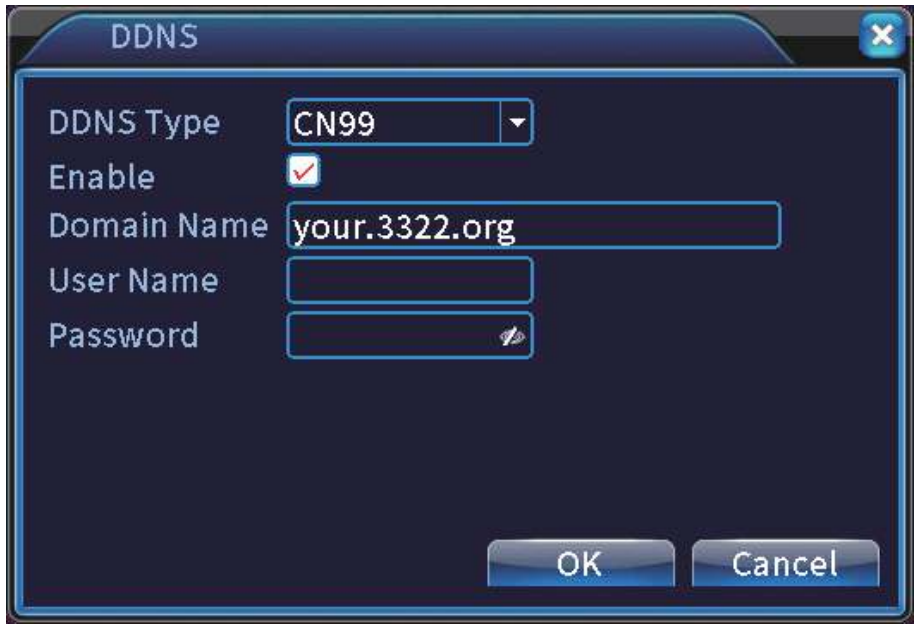


Figure 6-33

[**DDNS Type**] Select the manufacturer that provides dynamic domain name resolution service.
Currently supports CN99, DynDns, Oray, NO-OP, MYQ-SEE domain name providers.

[**Domain Name**] The domain name bound to the IP of the recorder, generally the domain name obtained from the service provider that provides domain name resolution;

[**User Name and Password**] The user name and password registered with the domain name resolution service provider;

6.4.4.5 FTP

After the FTP function is enabled, the recorder can upload alarm recordings and screenshots to the specified FTP server. Before using this function, you need to link the recording and screenshot functions in the recorder alarm function, and enable the alarm and detection functions within the effective time period in the recording settings and image storage, as shown in Figure 6-34.



Figure 6-34

[**Server IP**] specifies the IP address of the FTP server. If the FTP server is located in the WAN, the recorder also needs to be connected to the WAN;

[**Port**] The domain port number set when the FTP server is set up. The default port is 21;

[**Username and Password**] The username and password registered on the FTP server with corresponding permissions;

[**Anonymous**] After selecting, you can upload files to the FTP server without using a username and password. Before using this function, you need to confirm that FTP can be accessed anonymously;

[**Max file length**] The maximum length of each package uploaded file, the default is 1024M;

[**DirName**] The file directory of the uploaded file. By default, the remote directory can be set.

NOTE **Please make sure that the username has the authority to upload files to the server.**

6.4.4.6 ARSP

The DDNS Sever function allows you to add multiple recorders or network cameras to the DDNS server for centralized management, as shown in Figure 6-35.

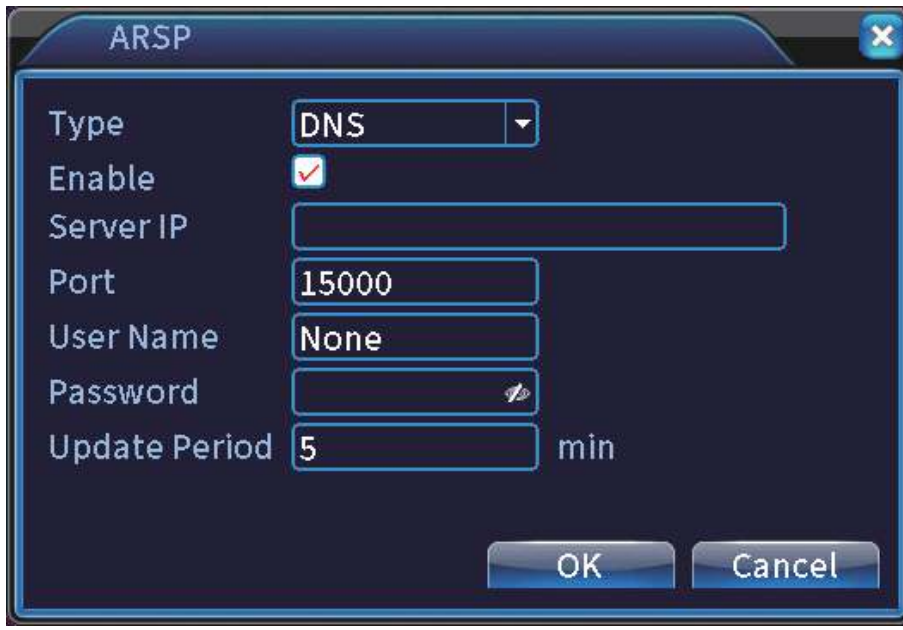


Figure 6-35

[**Server IP**] DDNS server IP address;

[**Port**] The port number of the recorder, corresponding to the "Service Listening Port" of the DDNS server;

[**User Name and Password**]: The username and password registered in the DDNS server;

[**Update Period**]: The time interval for synchronization between the device and the server, the default is 5 minutes;

NOTE **You need to set up a DDNS Server before use.**

6.4.4.7 AlarmServer (This feature has been removed from service)

6.4.4.8 Wireless Config

The recorder dials up to the Internet via a 3G/4G network card to achieve remote access, as shown in Figure 6-36.

NOTE **This function requires the purchase of additional expansion accessories. Please confirm with the salesperson whether it is supported before purchasing the expansion accessories.**



Figure 6-36

[**Type**] Depending on the type selected by the operator, the default automatic recorder will automatically match;

[**Wireless AP**] Select the access point according to the operator and network mode;

[**Dial Number**]: Select dial-up number based on operator and network mode;

[**User Name & Password**]: Username and password for dialing;

[**IP Address**]: The WAN IP address obtained after the recorder dials successfully.

6.4.4.9 UPNP

After enabling this function, the router will automatically forward the port of the recorder. Before using this function, the user needs to confirm that the UPNP function of the router is enabled, as shown in Figure 6-37.

NOTE **This function requires the purchase of additional expansion accessories. Please confirm with the salesperson whether it is supported before purchasing the expansion accessories.**

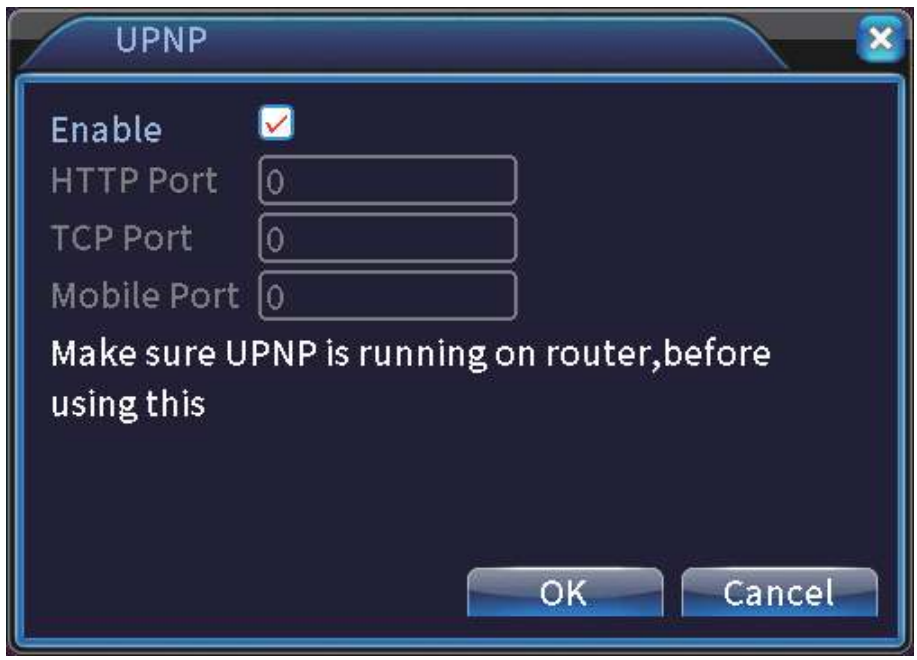


Figure 6-37

[**HTTP Port**] The HTTP port number assigned by the router to the video recorder;

[**TCP Port**] The TCP port number assigned by the router to the video recorder;

[**Mobile Port**] The mobile monitoring port number assigned by the router to the video recorder.

6.4.4.10 Wifi

The recorder is connected to a wireless router or other hotspot via a USB external WiFi wireless network card, as shown in Figure 6-38.

NOTE **This function requires the purchase of additional expansion accessories. Please confirm with the salesperson whether it is supported before purchasing the expansion accessories.**

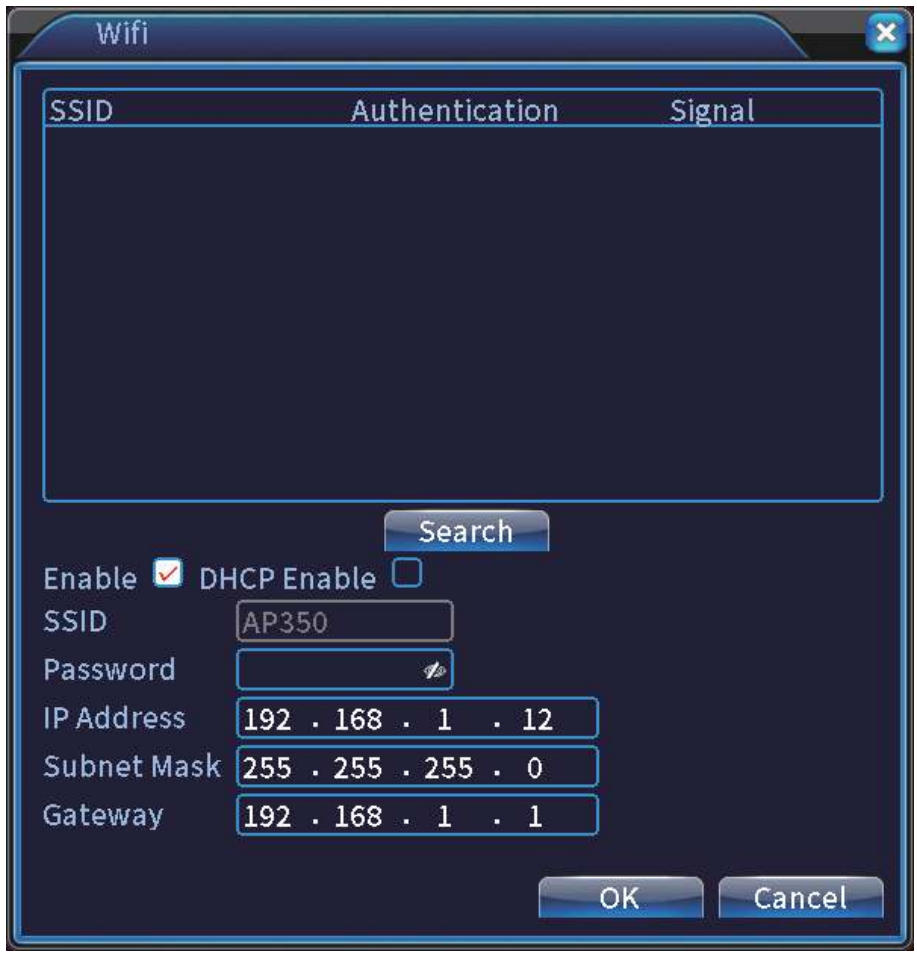


Figure 6-38

[**Search**] Click the search button, the recorder searches for available wireless router information within the current range, and the search results are displayed in the directory bar;

[**DHCP Enable**]: After checking Enable, the recorder automatically obtains a wifi IP from the router;

[**SSID**] Displays the SSID of the wireless router selected by the user in the directory bar;

[**Password**] Fill in the connection password of the selected wireless router;

[**IP Address**] Set the IP address of the recorder, default: 192.168.1.12, cannot be set after enabling automatic IP acquisition;

[**Subnet mask**] Set the subnet mask of the recorder, default: 255.255.255.0, cannot be set after enabling automatic IP acquisition;

[**Gateway**] Set the default gateway of the recorder, default: 192.168.1.1, cannot be set after enabling automatic IP acquisition.

6.4.4.11 RTSP

Use non-IE browsers (Apple browser, Firefox browser, Google browser) and streaming software to preview the video of the recorder, as shown in Figure 4-18.



Figure 6-39

RTSP streaming link:

rtsp://<device IP>:<RTSP Port>/user=<username>&password=<password>&channel=<channel no.>&stream=0.sdp

<**device IP**>: LAN IP address obtained by DVR;

<**RTSP Port**>: Set the rtsp port, default is 554;

<**username**>: DVR login account name;

<**password**>: DVR login account password;

<**channel no.**>:Channel number which you want to view;

6.4.4.12 Cloud

Check the cloud service and enable the cloud service.

Cloud Service 1

1. Log in to *http://www.xmeye.net*, select by user or by device;
2. Use the DVR's unique serial number to remotely preview and manage the DVR.

Serial number shows at [**Main menu**]>[**Info**]>[**Version**].

Cloud Service 2

1. Download the APP (XMEye pro or ICSee) and register to log in.
2. Use the APP to scan the QR Code to add the DVR device;
3. Open the link: *https://v2.xmeye.net/* , and log in to the account (the same as the APP login account). You can remotely preview and manage the DVR.

QR Code shows at [**Main menu**]>[**Info**]>[**Version**] or [**Main menu**]>[**System**]>[**Network**].

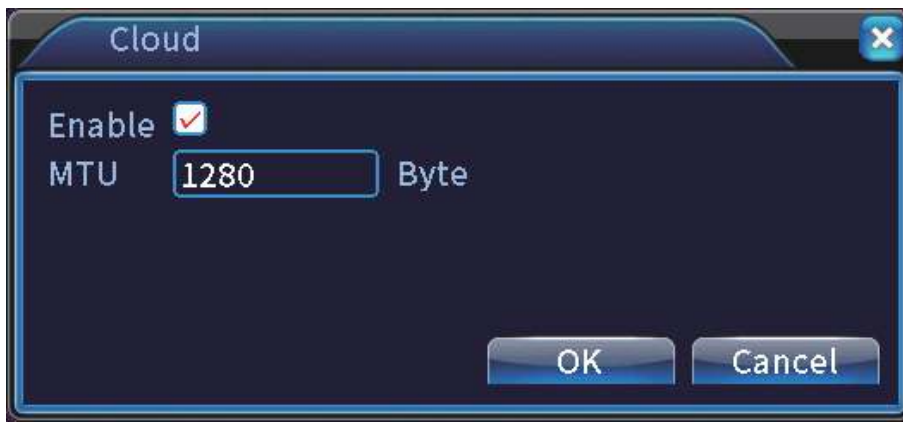


Figure 6-40

NOTE **Please do not change the MTU value at will. If you are sure that it needs to be changed, please contact local network technicians.**

6.4.4.13 Mobile Reported

After both the recorder and the mobile client have enabled this function, enable mobile reporting in the alarm setting interface. When the recorder triggers the alarm, the server will push the alarm information to the mobile client. Before using this function, the mobile device needs to install the client and add the recorder to the client. At the same time, the recorder needs to be able to connect to the server, as shown in Figure 6-41.

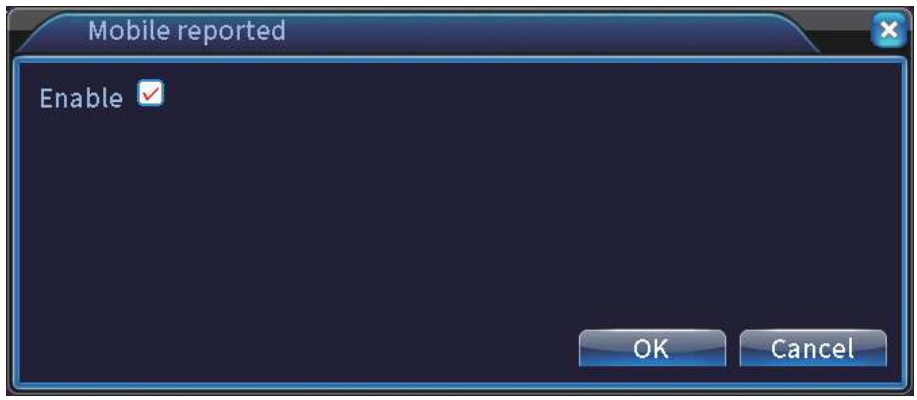


Figure 6-41

6.4.4.14 USB tethering

Enable USB network sharing. Connect the NVR to a mobile phone that supports network sharing via a USB cable. Enable the USB network sharing function on the mobile phone to share the mobile phone's network and achieve external network access, as shown in Figure 6-42.

NOTE **This function is not supported by all models. Please confirm with after-sales personnel whether it is supported.**



Figure 6-42

6.4.5 DISPLAY

Configure video output parameters, including pre-output mode and encoding output mode, including: channel title, time display, channel display, recording status, alarm status, transparency and Channel dividing line, alarm flashing, Device QR code, Transparency (default 255, opaque), resolution (default 1280*1024)
Set the region cover, time, channel title of each channel

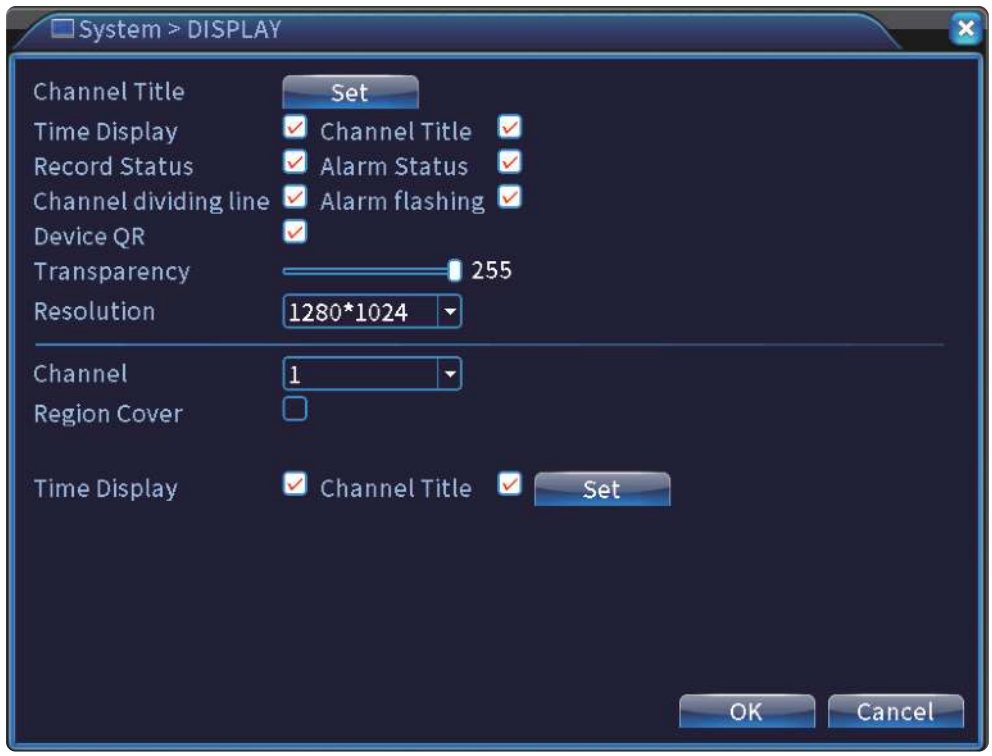


Figure 6-43

[**Channel Title**] Click the SET button to enter the channel name menu and modify the channel name.

[**Time Display**] Indicates the selected state, displaying the system date and time in the monitoring window.

[**Channel Display**] Indicates the selected state, displaying the system channel number in the monitoring window.

[**Recording Status**] Indicates the selected state, displaying the system recording status in the monitoring window.

[**Alarm Status**] Indicates the selected state, displaying the system alarm status in the monitoring window.

[**Transparency**] Select the background image transparency, ranging from 128 to 255.

[**Resolution**] Set the display resolution.

[**Channel**] Select and set the encoding output channel number.

[**Region Cover**] Indicates the selected state, click the Overlay Area button to enter the corresponding channel window. You can use the mouse to cover it arbitrarily. (The black area is the output area)

[**Time Display**] and [**Channel Title**] Set the display position of the channel title and time display.

6.4.6 PTZ Config

In hybrid mode/full digital mode, it shows PTZ devices and RS485 devices.

NOTE **Please confirm whether the model you purchased has an RS485 interface. If it does not have this interface, it means that RS485 devices are not supported.**

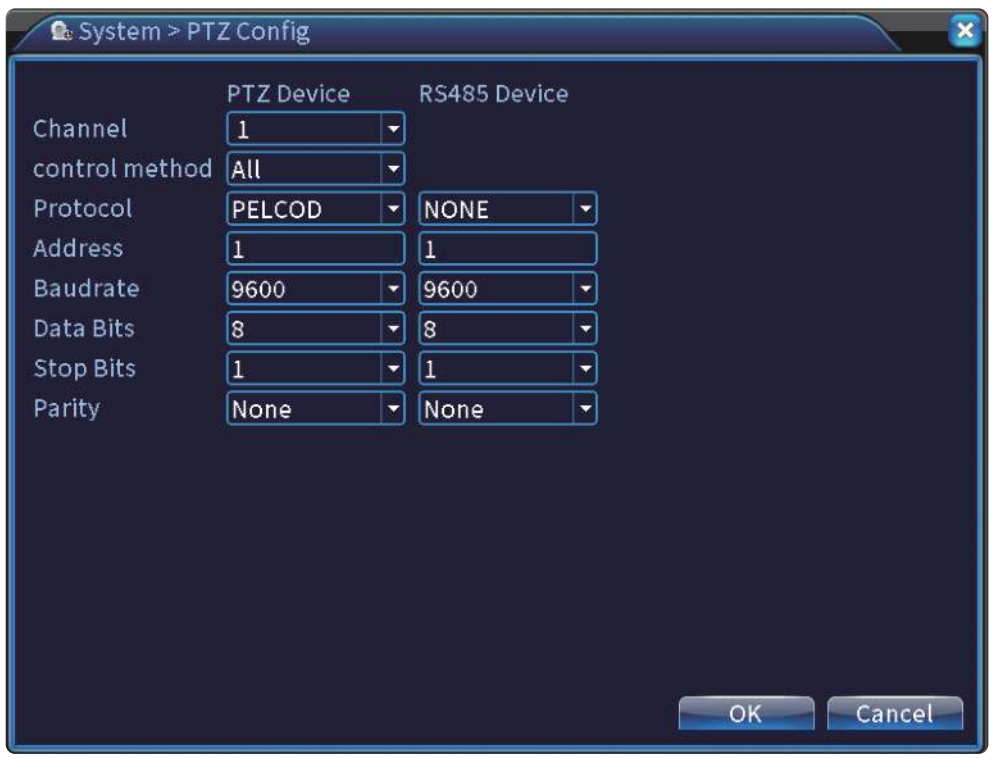


Figure 6-44

6.4.7 RS232

NOTE **Please confirm whether the model you purchased has an RS232 interface. If it does not have this interface, it means that RS232 devices are not supported.**

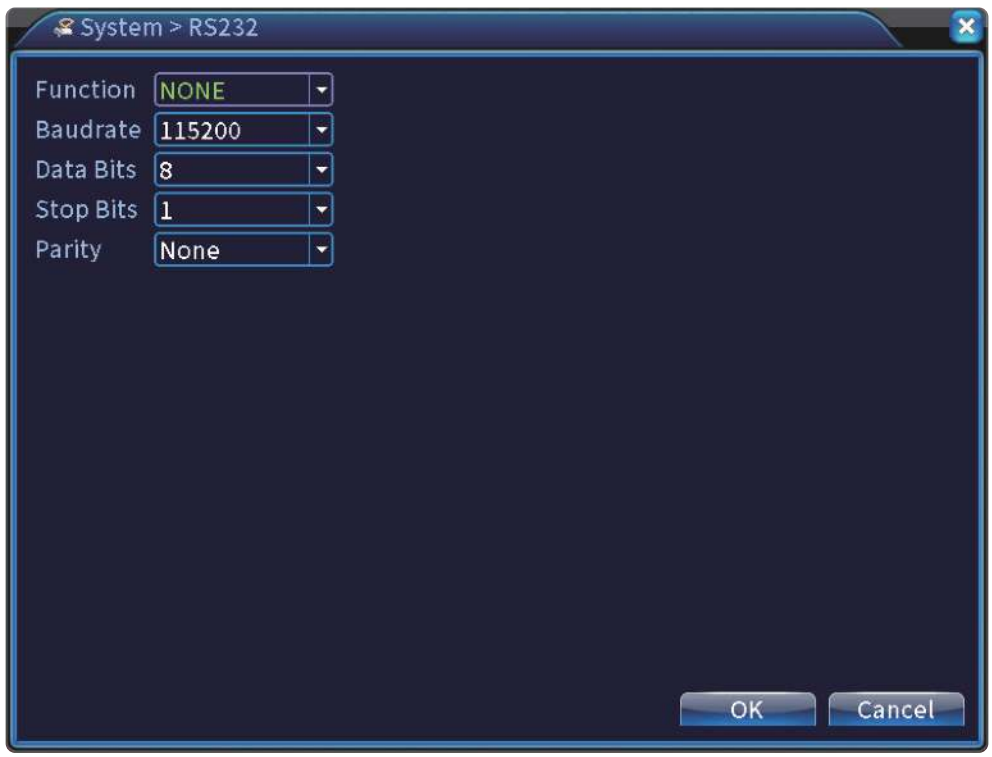


Figure 6-45

[**Function**] The ordinary serial port is used to debug the upgrade program, or set a dedicated serial port.

[**Baudrate**] Select the corresponding baud rate length.

[**Data bit**] Contains 5/8 options.

[**Stop bit**] Contains 2 options.

[**Parity**] Contains odd check, even check, mark, space, the default is none.

6.4.8 Tour

Enable tour, and you can see the monitoring images of different channels played in sequence on the preview interface.

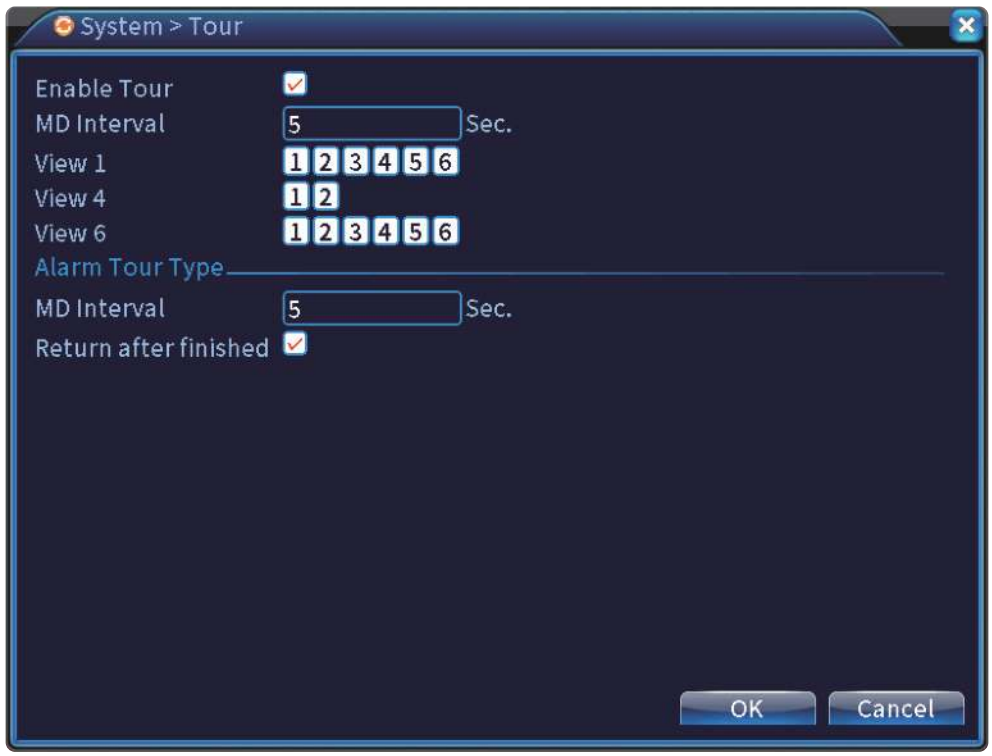


Figure 6-46

[**MD Interval**] Set the tour switching interval, the setting range is 5 to 120 seconds.

[**View**]Set different view types and corresponding channels, and play them in sequence.

[**Alarm Tour Type**] Set the alarm tour switching interval, the setting range is 5 to 120 seconds.

[**Return after finished**] After the alarm ends, it returns to normal tour mode.

6.4.9 Digital

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

NOTE **Note: when the device is in full analog mode, only analog mode is displayed.**

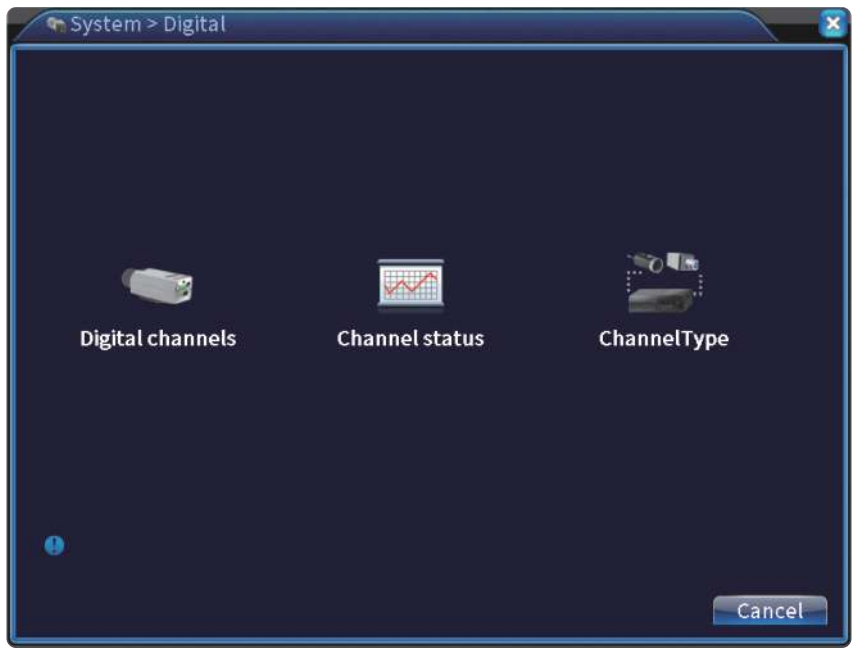


Figure 6-47

6.4.9.1 Digital Type

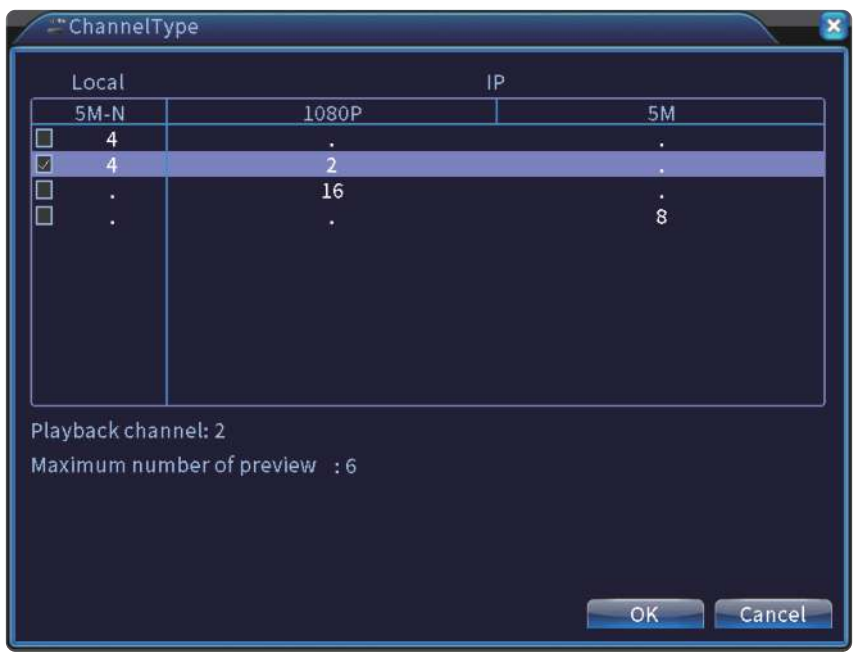


Figure 6-48

[**Local**] refers to the number of coaxial cameras that can be directly inserted into the BNC video input port of the DVR. The numbers in the table indicate how many channels of coaxial cameras are supported. If there is no number, it means it is not supported.

[**IP**] refers to the number of IP cameras that can be connected to the same LAN as the DVR. 1080P/5M indicates the supported resolution. The numbers in the table indicate the number of cameras supported. If there is no number, it means it is not supported.

6.4.9.2 Digital channels

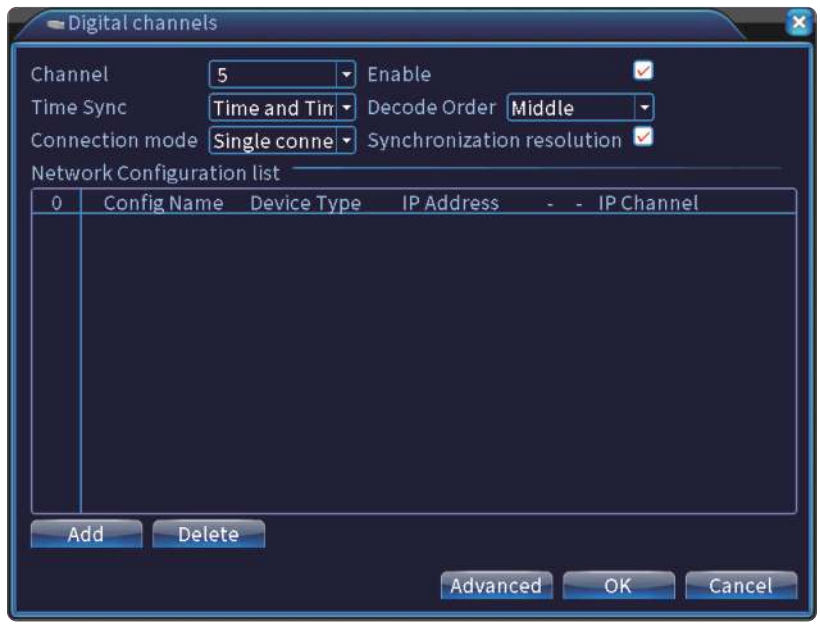


Figure 6-49

[**Channel**] select channel title.

[**Enable**] Open digital channel, tick enable, then can do related settings.

[**Time Sync**] Tick it means the time of this channel and device is the same.

[**Decode Order**] Set the decoding order.

[**Time Sync**] Select the time synchronization method.

[**Synchronization resolution**] Synchronize the remote device's resolution with the DVR.

[**Connection mode**] The connection mode of the remote device.

[**Add**] click add will come out below page(Figure 6-50) to add new device.

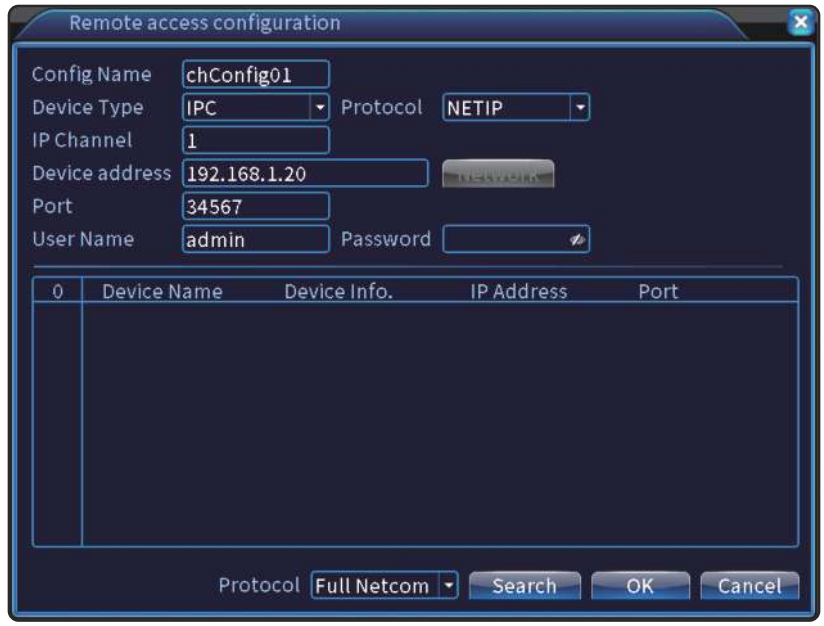


Figure 6-50

[**Config Name**] The device has a default configuration title, which the user can modify as needed.

[**Device Type**] Three types: IPC, DVR, HVR users can choose, the default is IPC

[**Protocal**] Select the protocol supported by the remote device, NETIP, RTSP, ONVIF.

[**IP Channel**] The user can enter the remote channel title from the remotely connected device.

[**Device address**] Enter the IP address of the remote device.

[**Port**] Enter the port of the remote device.

[**User Name&Password**] Enter the username and password for the remote device.

Remark:
Clicking [Search] will display all searched devices, and users can select their favorite devices.

6.4.9.3 Channel Status

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

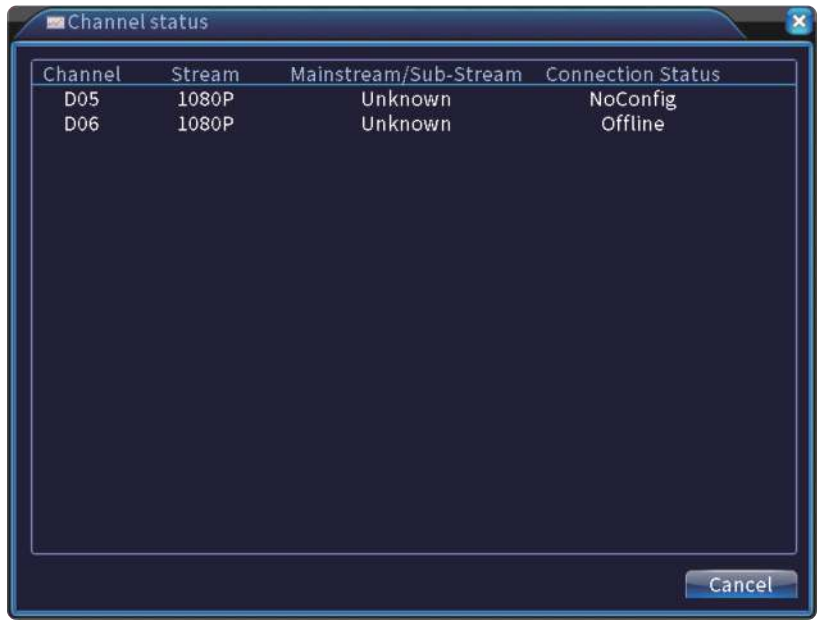


Figure 6-51

Remark

When the current resolution is over the max resolution that the channel supported, then a red “X” will be shown on the preview image.

6.4.10 XVI control

The coaxial control function allows the video recorder to transmit the control signal to the front-end camera through the coaxial cable. using these control signals, the recorder can control the PTZ, menu and other functions of the front camera.

Front-end should support coaxial function ,then it can use Right direction keys, left brightness, transparency and advanced menu items function can only be used with XM front-end products.



Figure 6-52

6.4.10.1 XVI Control

[① **channel selection]** select the channel by clicking the drop-down menu;

[② ③ **Front-end Parameter Adjustment]** Adjust the front-end parameters by dragging the button with the mouse or check the function items or enable/disenable function by choosing from the drop-down menu;

[④ **Determine Key]** Enter the OSD menu or determine function of the front-end camera;

[⑤ **directional keys]** OSD menu of front-end camera is controlled by four directional keys.



Figure 6-53

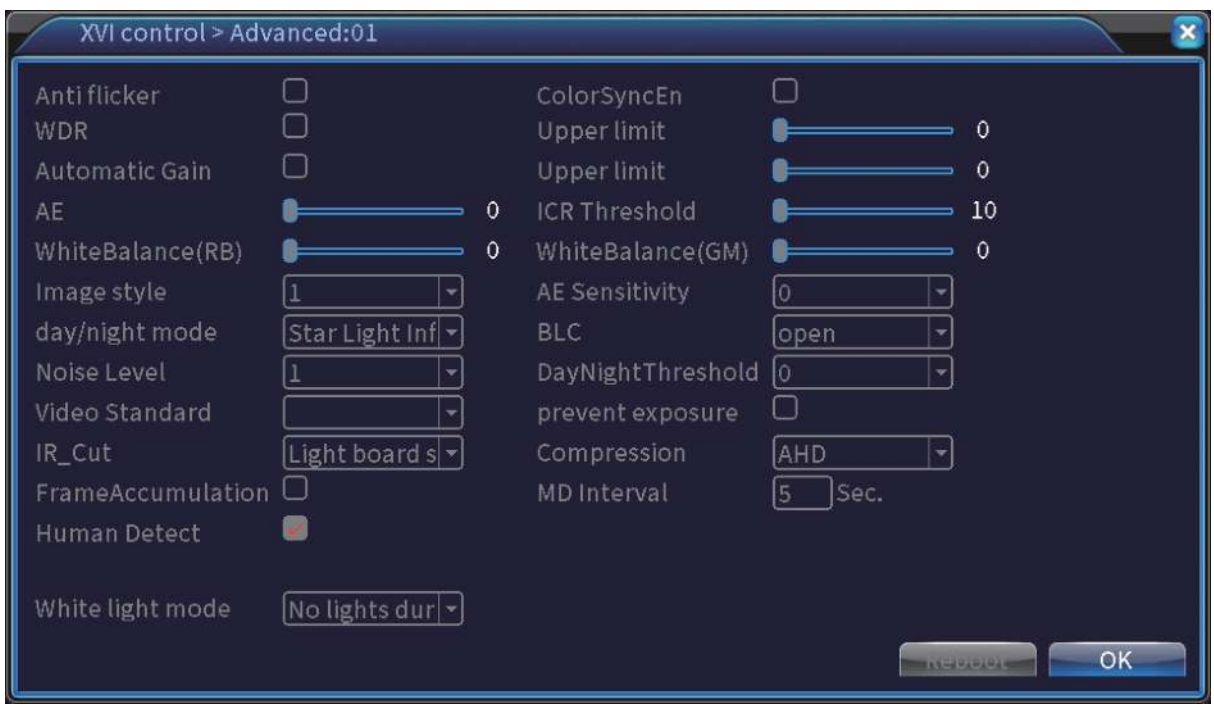


Figure 6-54

6.4.10.2 Image enhance

Image Enhancement Screen Tips, Frame Accumulation

After opening the screen prompt, connect the XM front end and will display the icon (Coaxial, Coaxial 1.2.3.4.all) in the lower right corner of the preview screen.

When frame accumulation is turned on, it will trigger to open non-real-time function under darker conditions, and the image effect is better. Note: There will be a short flow at the moment of switching, and only partial channel mode of some models can support this function; (In Advanced menu of XVI control, frame accumulation can also be turned on and off.)



Figure 6-55

6.4.10.3 XVI upgrade

the recorder can upgrade the analog front end program through the coaxial line;

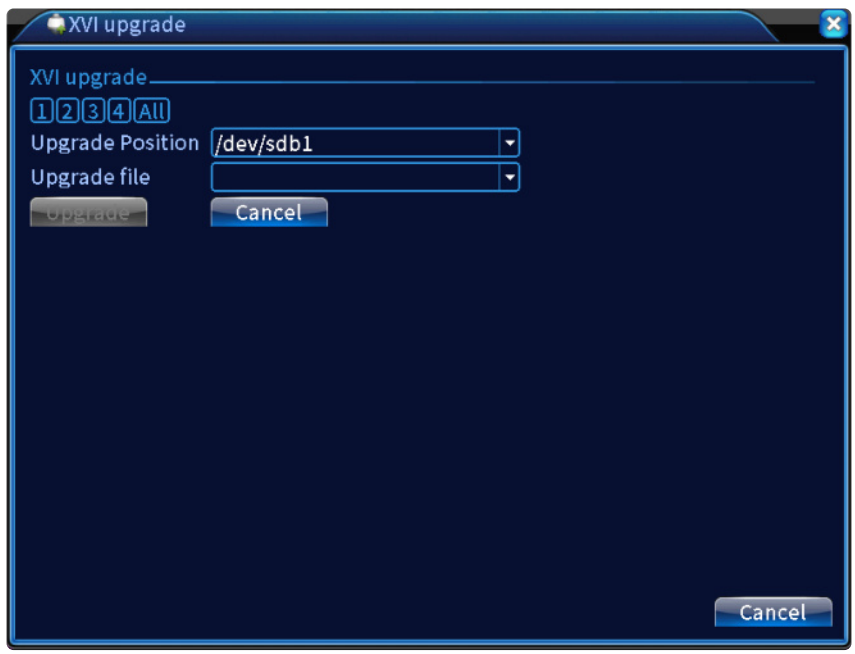


Figure 6-56

6.4.10.4 Sensor cfg

Users can export the configuration files of analog front-end to external storage devices (e.g. U-disk) by coaxial line, or import the configuration files of external storage devices (e.g. U-disk) into analog front-end through coaxial line.

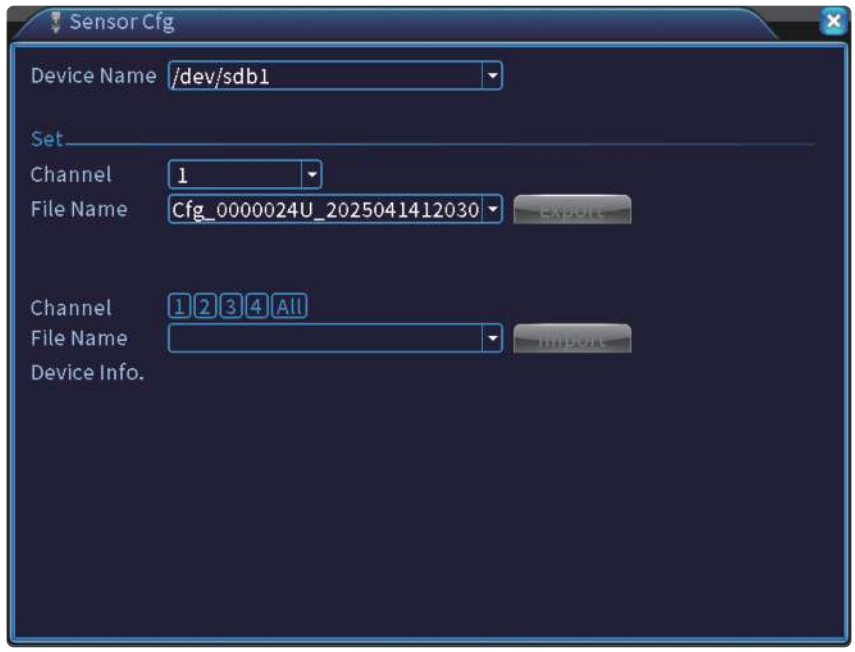


Figure 6-57

6.4.10.5 XVI Audio Set

the recorder can upgrade the analog front end program through the coaxial line;

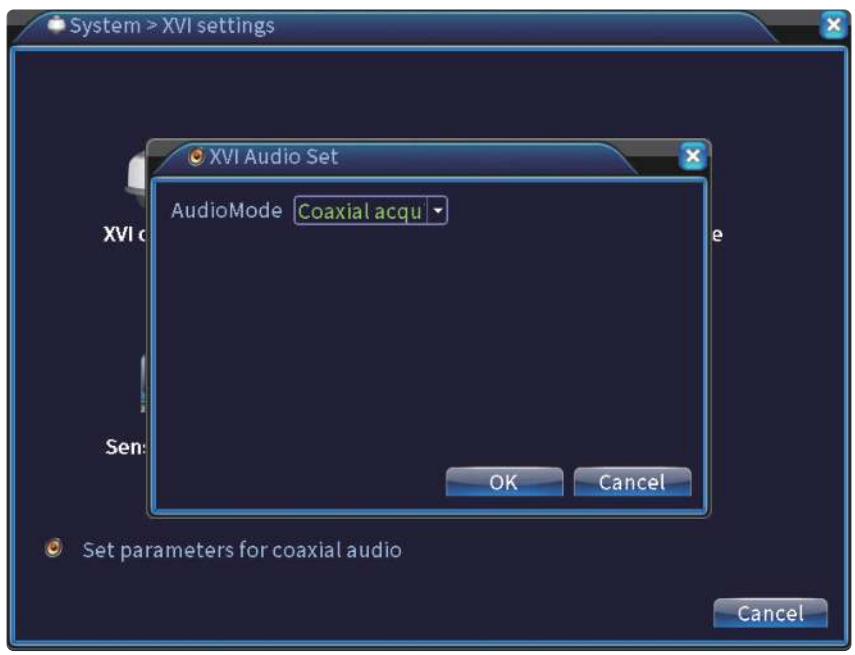


Figure 6-58

6.5 Advanced

Manage tools menu including: HDD manage, account manage, online user, output adjust, auto maintain, upgrade.

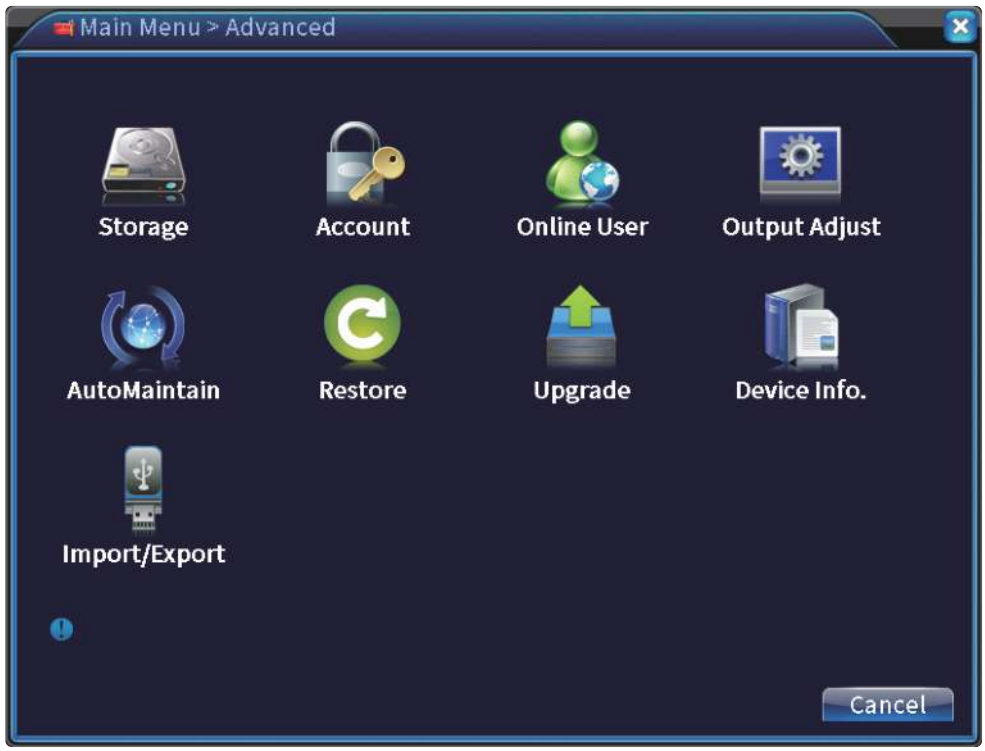


Figure 6-57

6.5.1 Storage

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.

NOTE **Setting redundancy, formatting, and partitioning the disk will cause data to be cleared. Please make sure that the data on the hard disk has been backed up.**

[**Read/write**] The device can read and write data. Read-write permissions are required to enable the recording function.

[**Read-only**] The device can read data but cannot write data. It can be temporarily set to read-only to prevent the recording file from being overwritten.

[**Redundant**] Double backup of video files in the read-write disk.

[**Format storage**] Formatting the hard disk will change the partition format of the hard disk and clear data.

[**Partition**] Divide the hard disk space into recording partition and image(snapshot) partition.

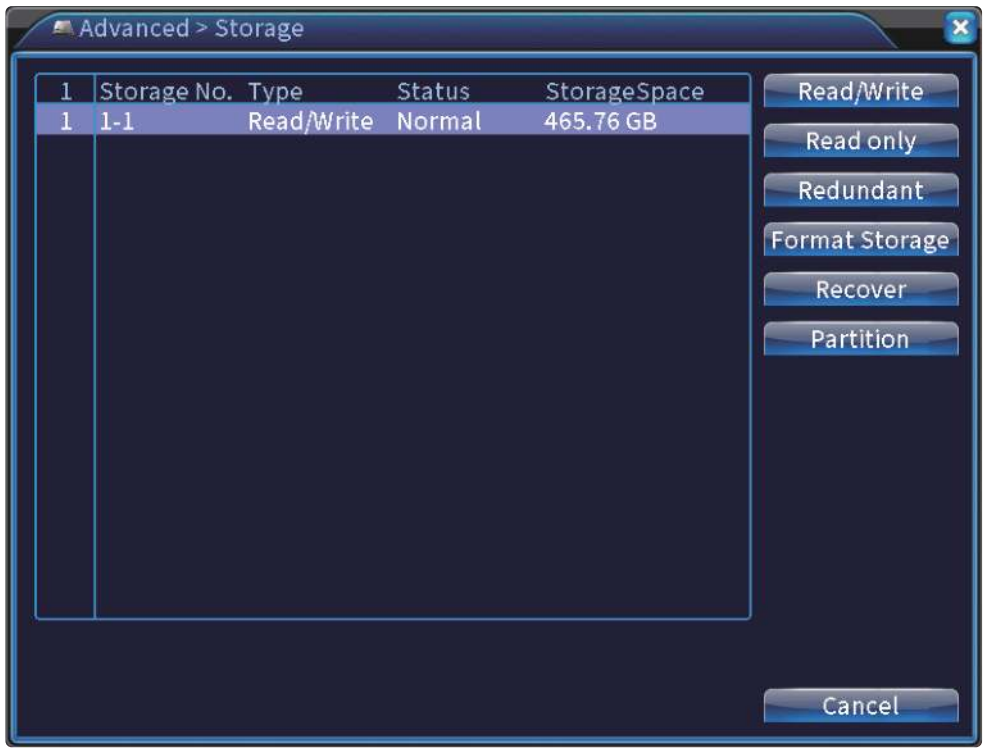


Figure 6-58

6.5.2 Account

Manage users and user group permissions.

NOTE

1. The character length of the following user names and user group names is up to 8 bytes. Spaces before and after the string are invalid, and spaces in the middle are valid. Legal characters include: letters, numbers, underscores, minus signs, and dots.
2. There are no restrictions on users and user groups. You can add or delete user groups based on user definitions.
Factory settings include: User Administrator. You can set up teams as needed. Users can specify permissions in groups.
3. User management includes: Group/User. Group name and user name cannot be the same. Each user can only belong to one group.

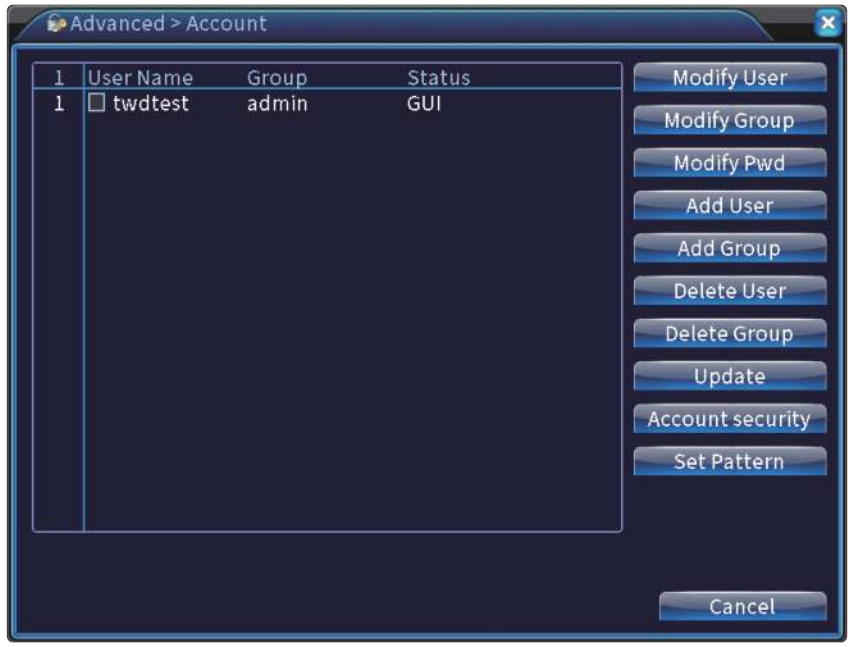


Figure 6-59

[**Modify User**] Change username and user permissions.

[**Modify Group**] Modify account group names and permissions. The permissions of the admin group cannot be modified. There are two built-in groups by default, Admin and user.

[**Modify Pwd**] Change account password.

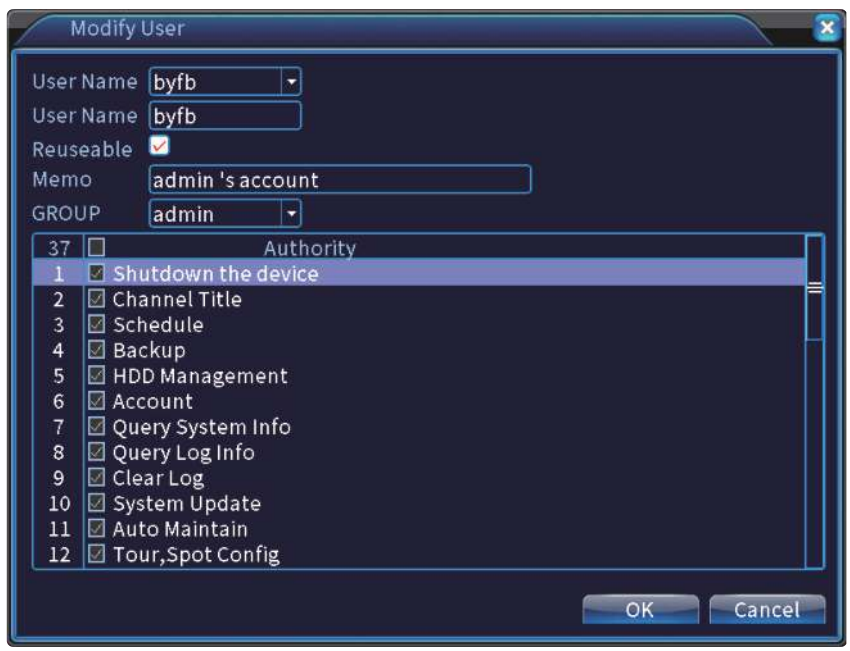


Figure 6-60



Figure 6-61

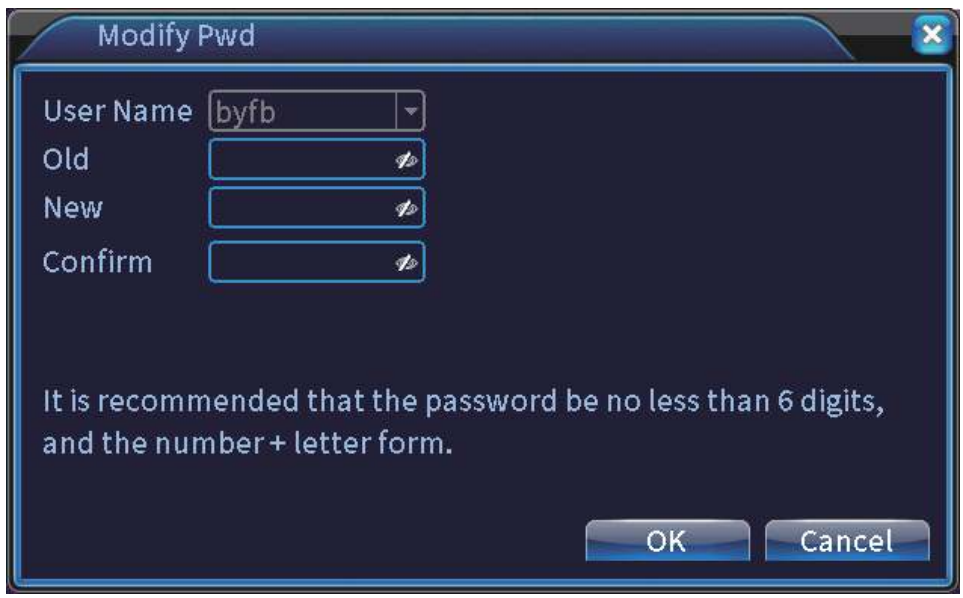


Figure 6-62

[**Add User**] Add a new account.

[**Add Group**] Add a new account group.

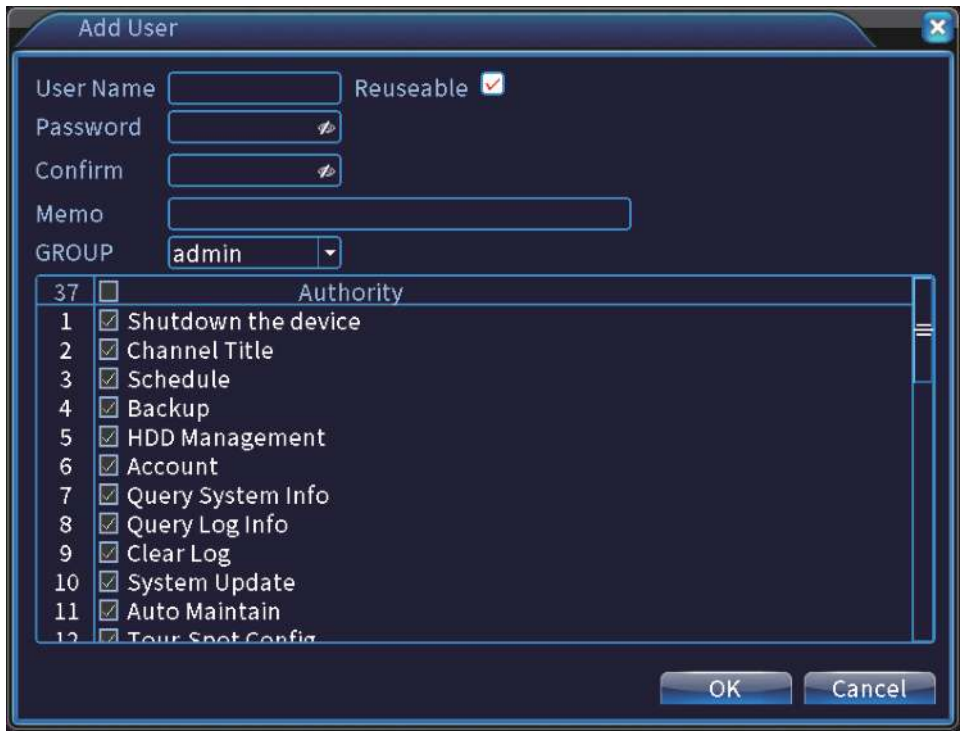


Figure 6-63

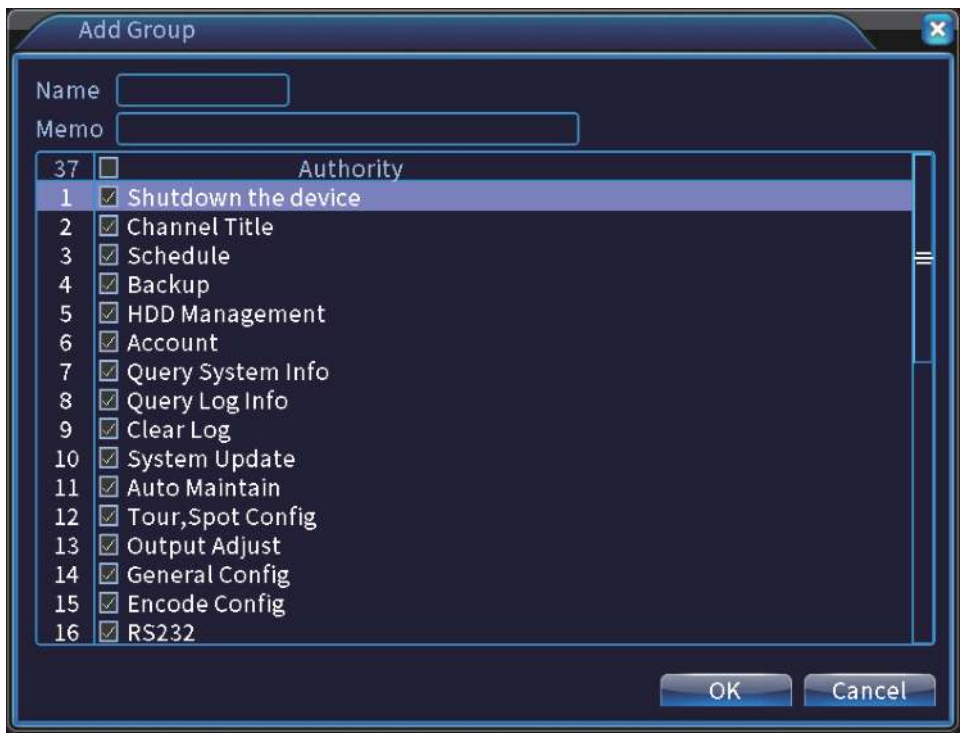


Figure 6-64

[**Delete User**] Delete the selected user.

[**Delete Group**] Delete a user group. The Admin group cannot be deleted.

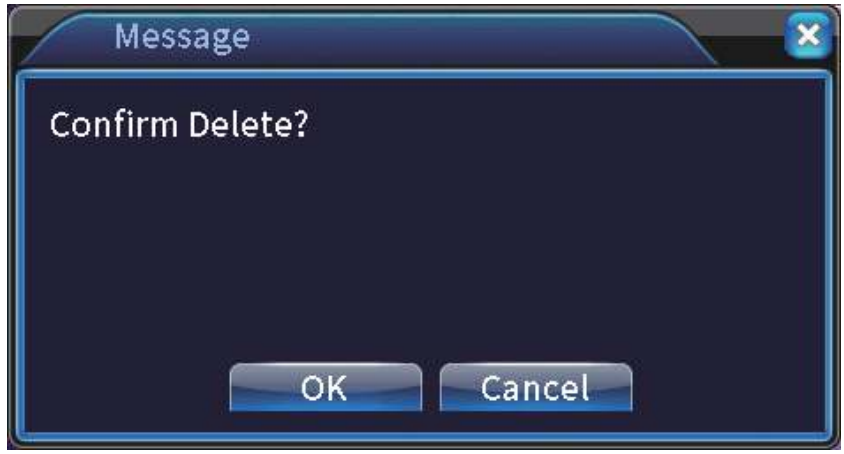


Figure 6-65



Figure 6-66

[**Update**] Click Update to immediately update the set permissions and accounts.

[**Account security**] Set the default account security question.

[**Set Pattern**] Set the pattern unlock of the default account.

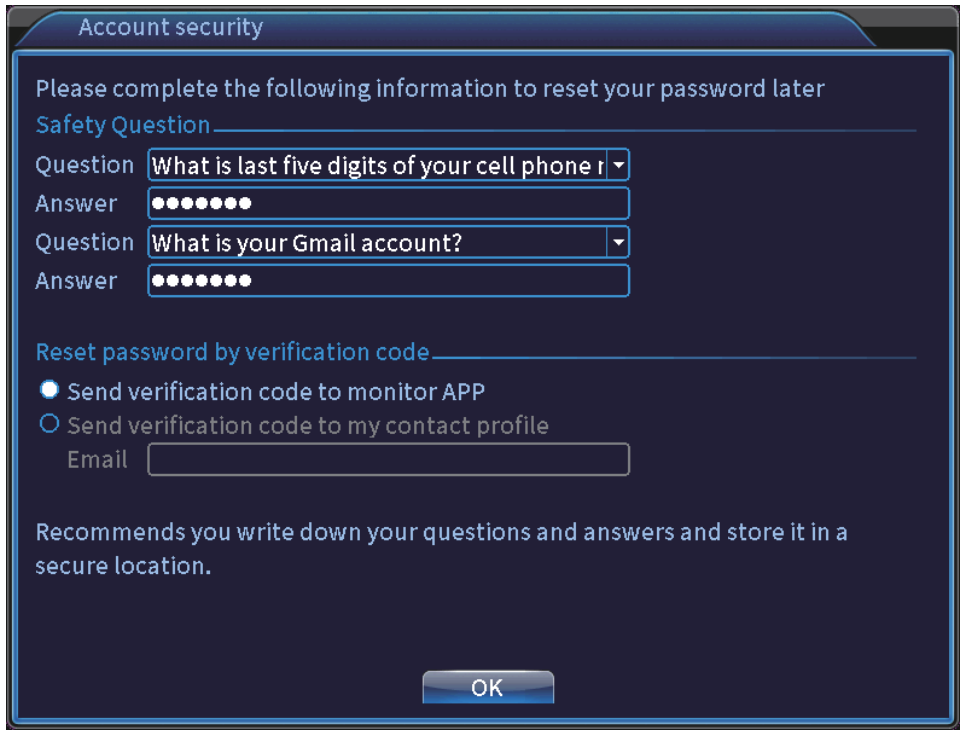


Figure 6-67

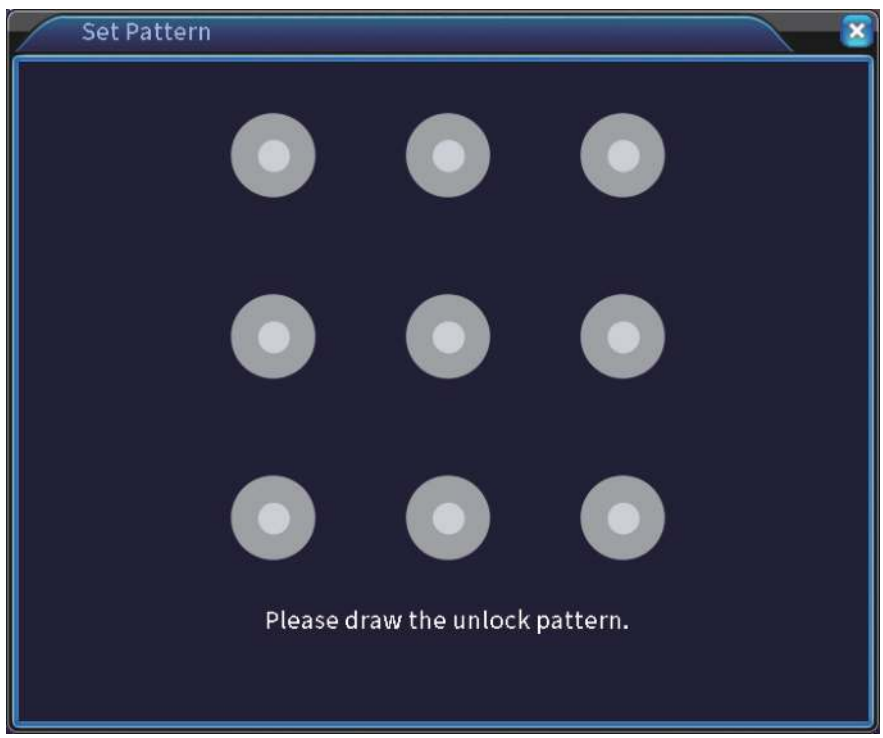


Figure 6-68

6.5.3 Online User

Check the network user information of the local device. You can also select the users to be disconnected. If you tick the check box, the user will be frozen after the connection is disconnected and cannot log in until the device is restarted.

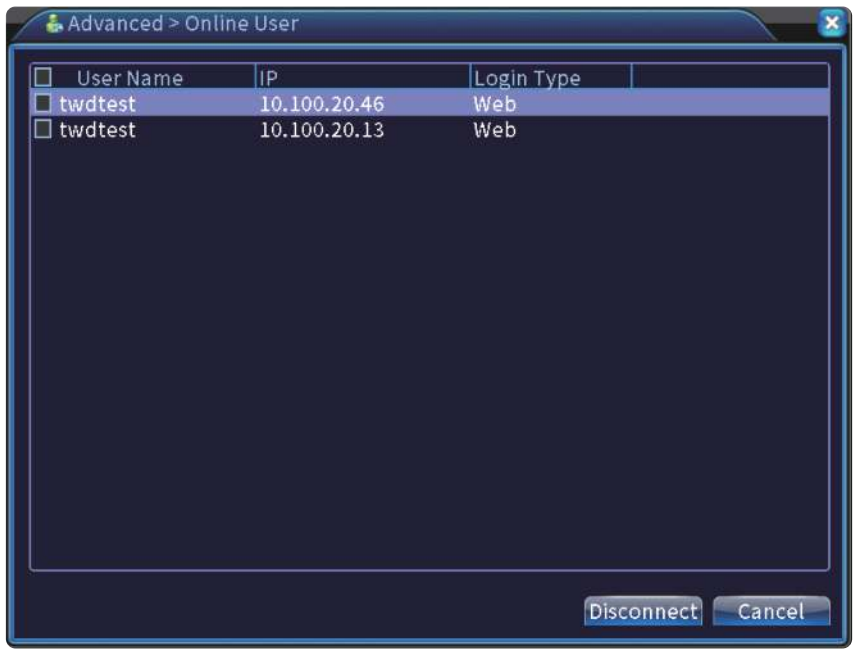


Figure 6-69

6.5.4 Output Adjust

Set the top, bottom, left, and right margins, volume, and image style of the output interface.

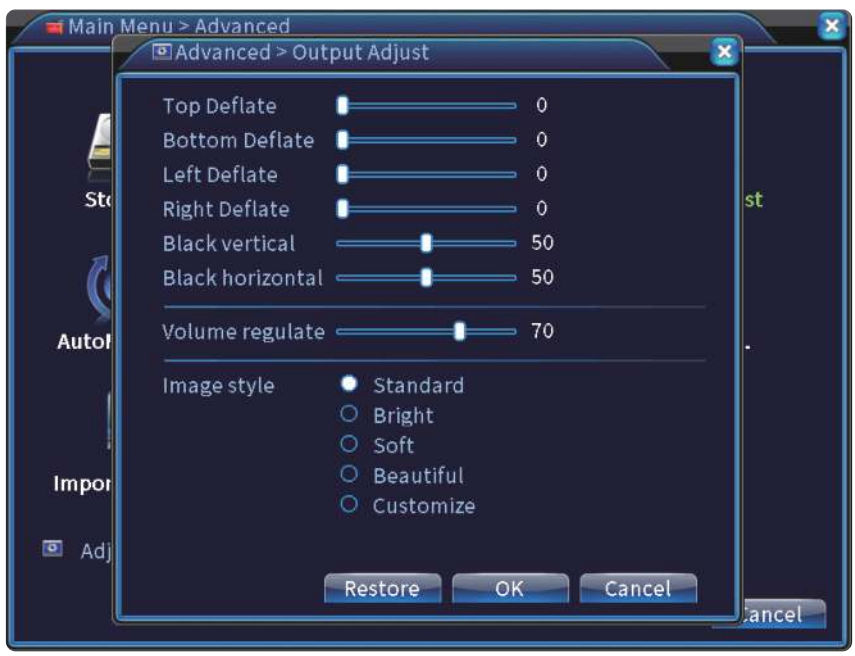


Figure 6-70

6.5.5 AutoMaintain

The user can set the time to auto reboot and auto delete file.

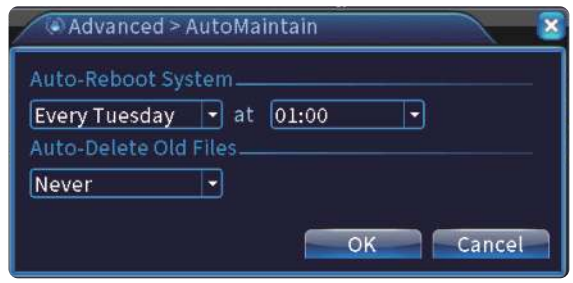


Figure 6-71

6.5.6 Restore

[**Restore Default Settings**] Restore all settings to default except IP address and user information.

[**Restore Factory Settings**] Restore all settings to default.

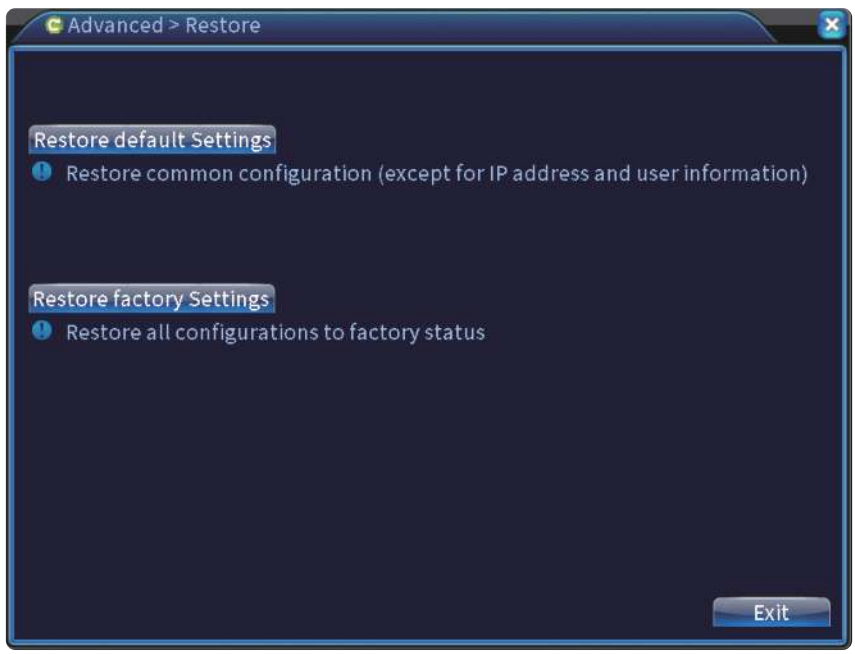
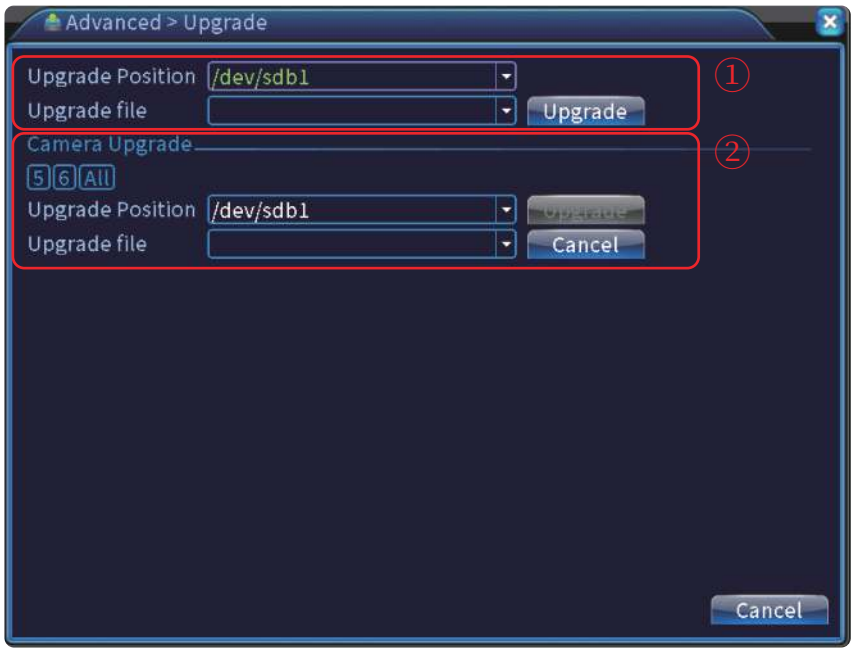


Figure 6-72

6.5.7 Upgrade

[**Upgrade Position**] Select the correct USB device.

[**Upgrade file**] Select the correct upgrade file.



[**Area ①**] is for upgrading DVR equipment.

[**Area ②**] is for upgrading camera equipment.

Figure 6-73

6.5.8 Device Info

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

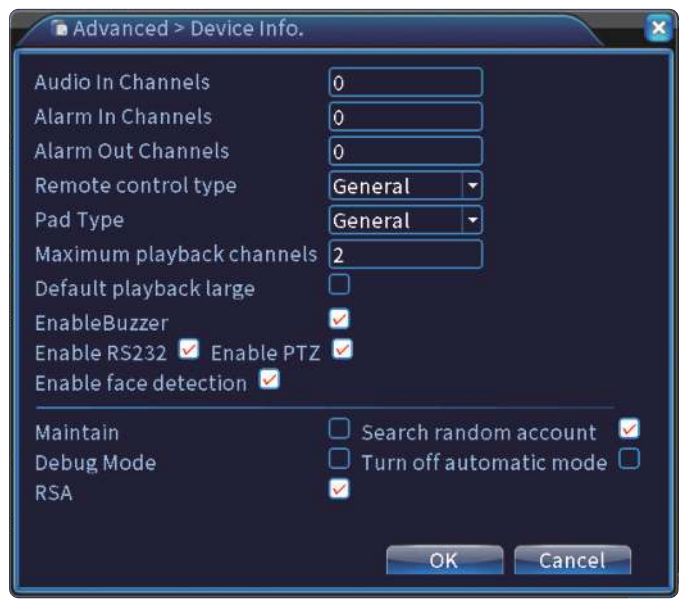


Figure 6-74

6.5.9 Import/Export

Users can export log information and configuration files from the device to a connected flash drive, or import relevant configuration files from a flash drive into the settings for easy centralized deployment.

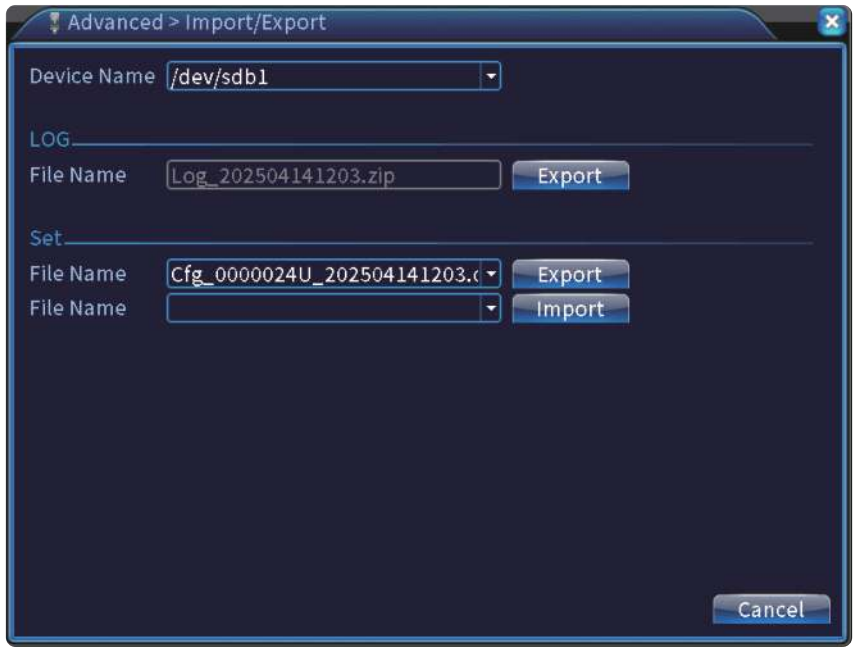


Figure 6-75

6.6 Info

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

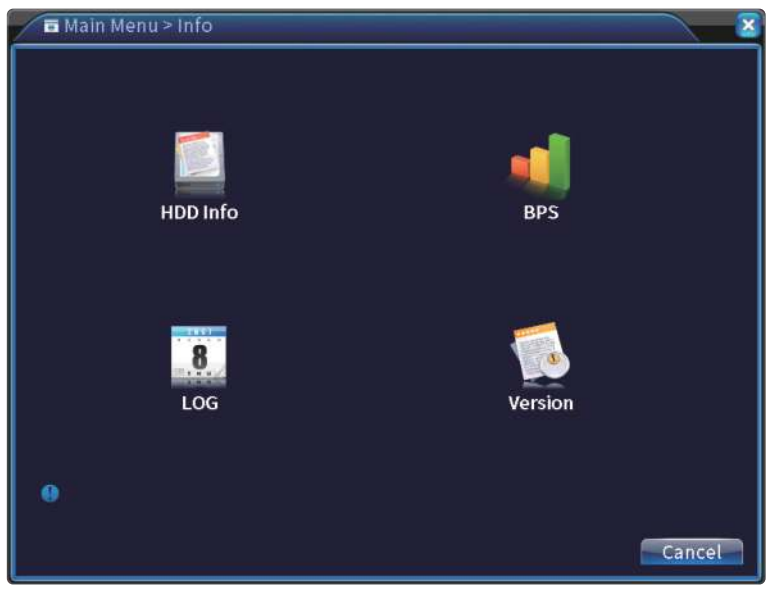


Figure 6-76

6.6.1 HDD Info

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

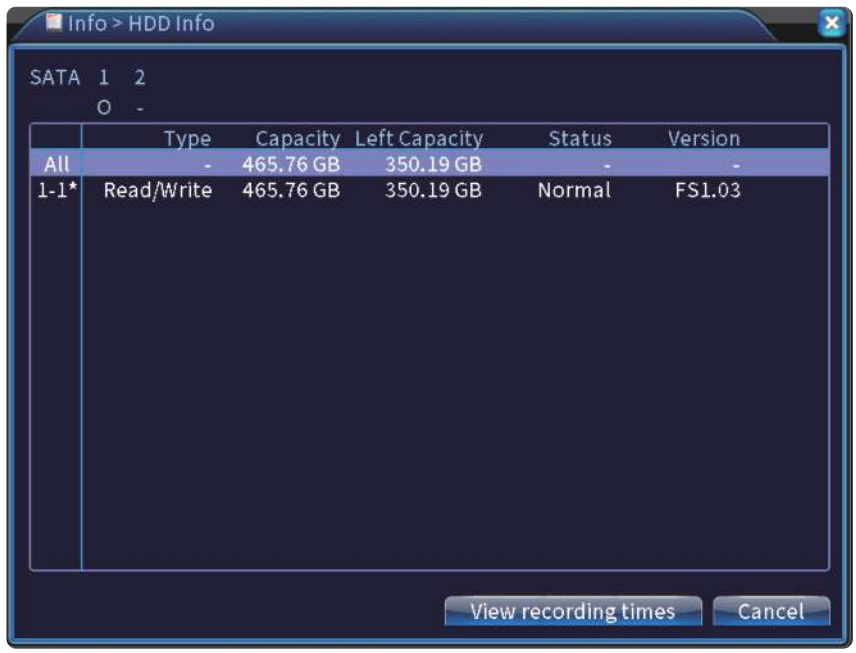


Figure 6-77

6.6.2 BPS

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

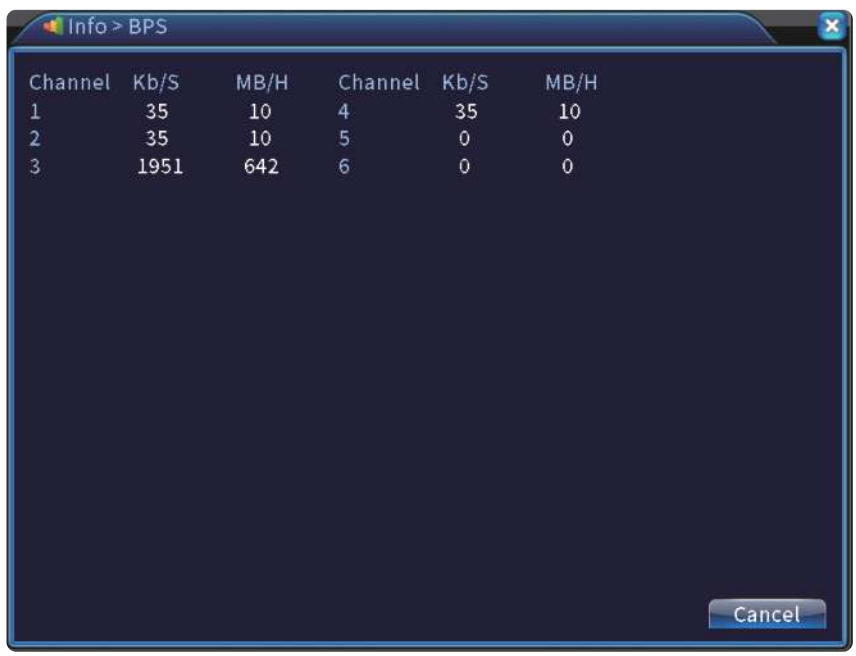


Figure 6-78

6.6.3 LOG

To search log information base on the set search mode.
Log information include: system operation, configuration operation, data management, alarm affair, recording operation, user management, 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.

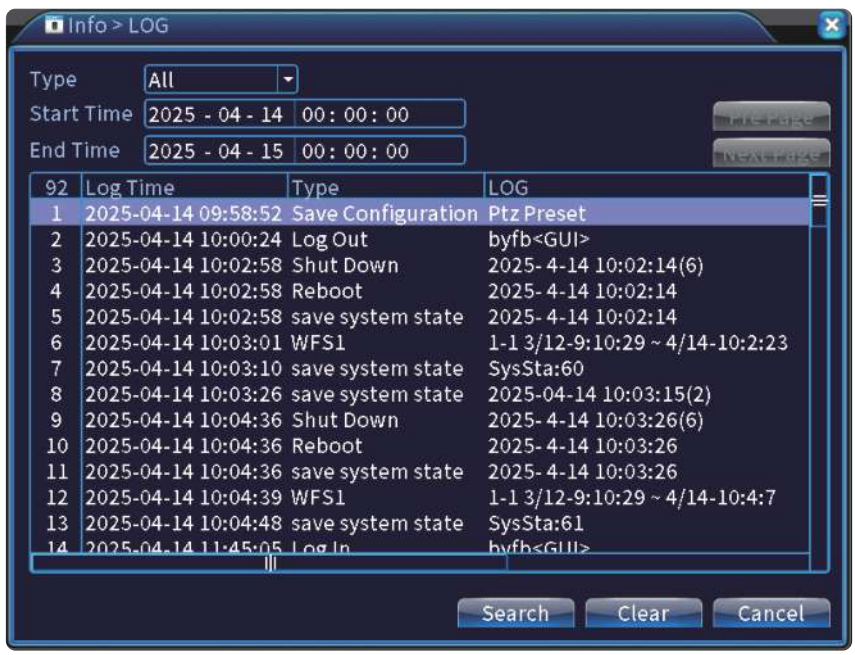


Figure 6-79

6.6.4 Version

Display the basic information such as system version, Build Date, issue date, MAC, serial number, Record Channel, NAT status and APP Scan QR Code.

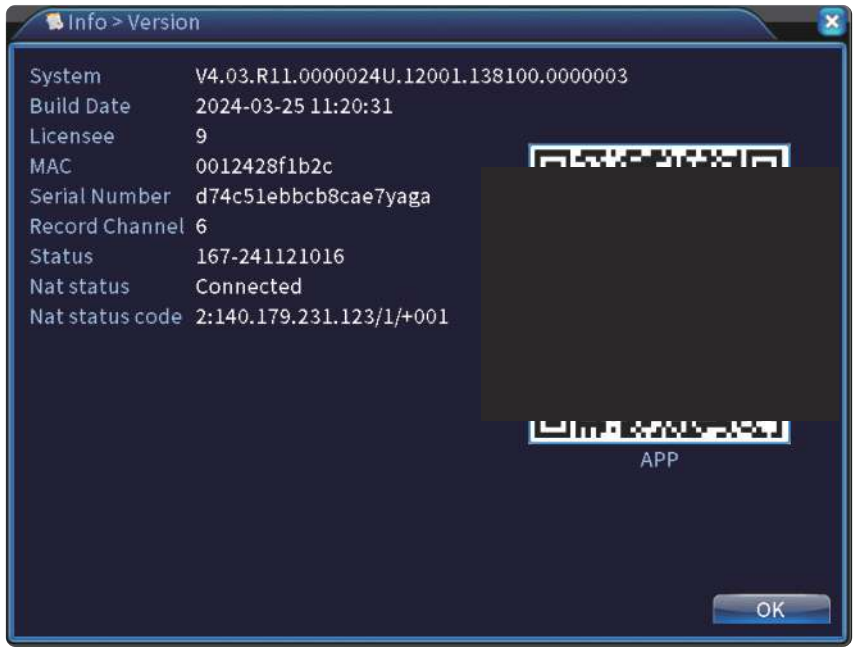


Figure 6-80

6.7 Logout

Manage tools menu including: HDD manage, account manage, online user, output adjust, auto maintain, upgrade.

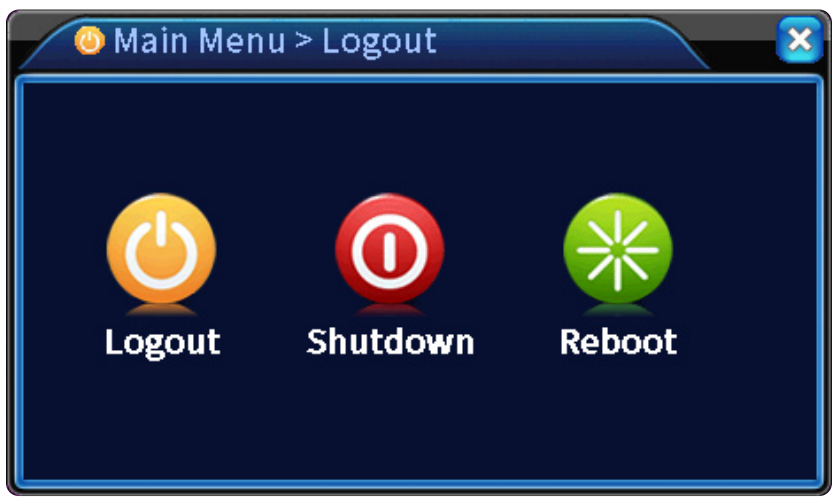


Figure 6-81

7 VMS Basic Operation

7.1 Install VMS Software

We have uploaded the VMS software to the network disk share. If necessary, you can download and install it. It includes software for Windows and Mac systems.

- Windows system supports Windows 7 and above.
- Mac system supports macos 10.8 and above.

Step1:
Use the QR code scanning app to scan the above QR code to get the VMS software download link.

Step2:
Download the corresponding file according to your operating system.



For Windows systems, please download the .exe file and then install it.

For macOS systems, please download the .dmg file and then install it.

7.1.1 VMS Login Interface

There is a default username and password, click SIGNIN to open the software.

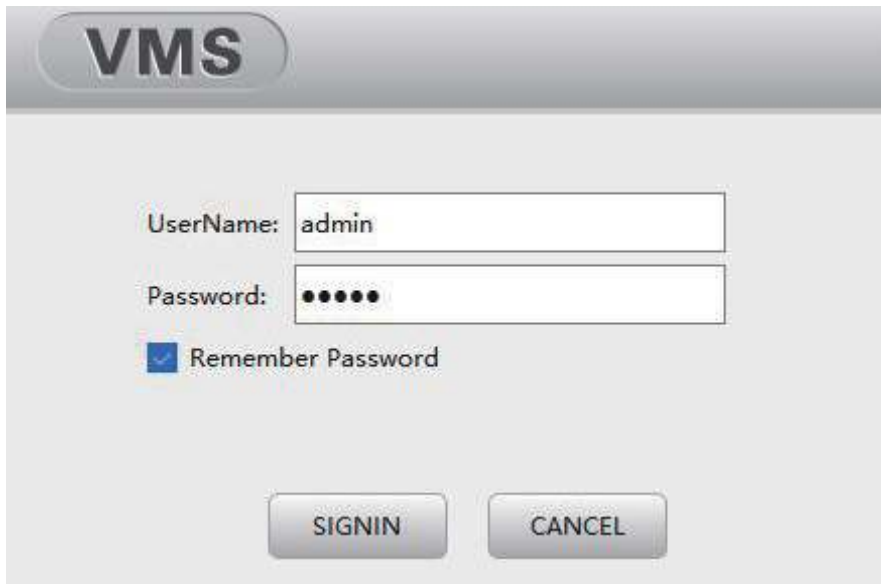
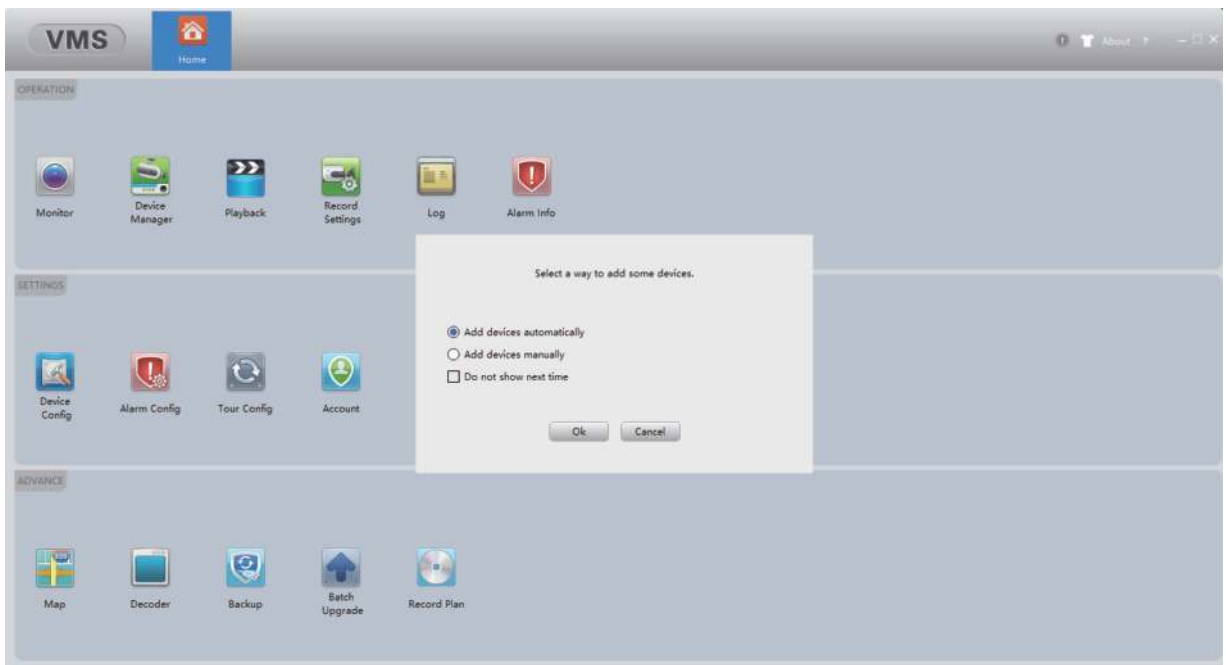


Figure 7-1

7.1.2 VMS Home Page



Every time you log in to the VMS system, the [**Startup Wizard**] window will pop up. You can check "**Do not show next time**" to permanently close the window.

You can also re-enable the window in [**Home**] - [**System Config**] - [**Show Startup Wizard**].



Figure 7-3

[**Monitor**] View a preview of the live stream from connected devices.

[**Device Manager**] Device management, where you can add or delete devices, and modify device connection information.

[**Playback**] Play the playback video of the connected device.

[**Record Settings**] Save the device's video to the VMS local disk.

[**Log**] View and export the logs of the VMS client or device.

[**Alarm Info**] When the device triggers an alarm, the alarm information will be displayed here.

[**Device Config**] You can set the device here, including general, alarm, storage, and system tool.

[**Alarm Config**] Set the VMS Client alarm type and sound.

[**Tour Config**] Set the VMS Client's preview settings.

[**Account**] Set the VMS Client's account.

[**System Config**] Set the VMS Client's system settings.

[**Map**] By setting the corresponding positions of Map and device (channel), you can quickly find the device and preview it.

[**Decoder**] Set the decoder of VMS client.

[**Backup**] Back up the configuration files and video files of the device.

[**Batch Upgrade**] Upgrade the firmware of the device.

[**Record Plan**] Set up the VMS recording plan, and the recording files are saved on the computer instead of the DVR disk.

7.1.3 Device Manager

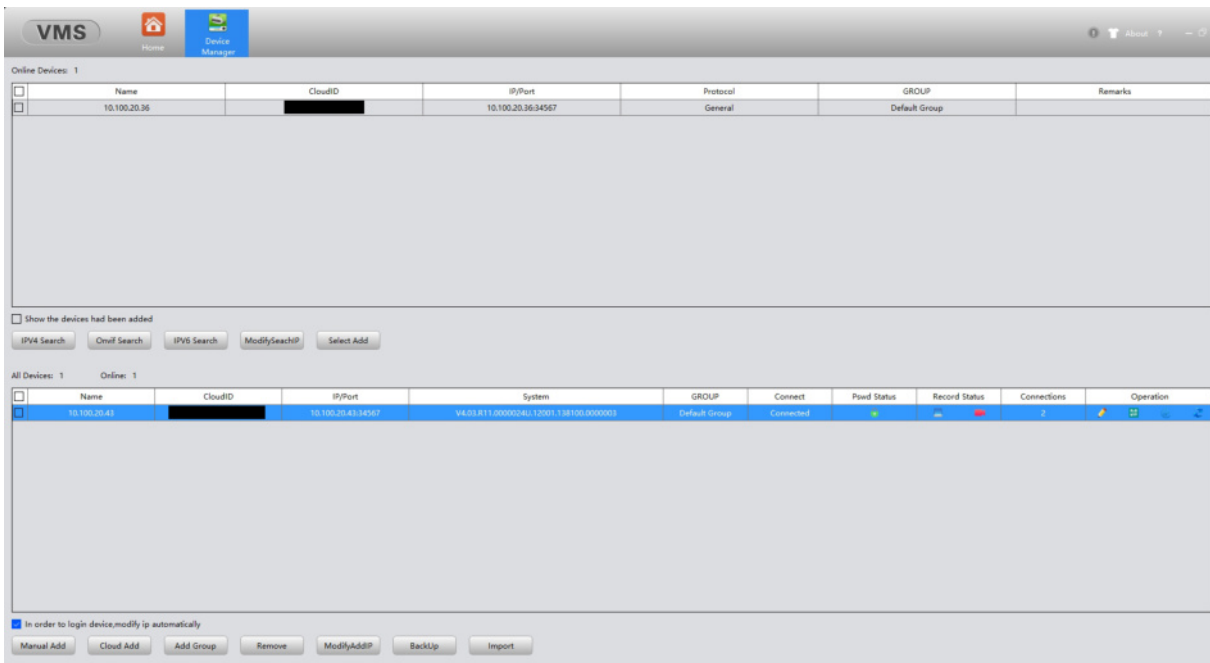


Figure 7-3

Icon	Description	Icon	Description
	Login status		Device's QR Code
	Drive information		Modify device's IP
	Record status		Refresh device information and status
	Edit device connection settings		

[**IPV4 Search**] search for online devices which use IPV4 , the result of the search will be listed in the online device area.

[**Onvif Search**] Click Onvif Search, it can search the ONVIF devices and show in the online device area.

[**IPV6 Search**] search for online devices which use IPV6 , the result of the search will be listed in the online device area.

[**ModifySearchIP**] Modify the search IP range. There are 3 options: Auto Modify, Range Modify, Fixed Modify.

[**Select Add**] Add the device of your select.

[**Manual Add**] add device by input device' s IP, port, group, username and password manually.

[**Cloud Add**] add device by input cloud ID(serial number), group, username and password manually.

[**Add Group**] Add new group which could place different kinds of devices inside, makes it simple to manage. All devices added as default group, you can edit group when adding device.

[**Remove**] Select the device and click "remove" button, this device could be removed.

[**ModifyAddIP**] Modify the search IP range. There are 3 options: Auto Modify, Range Modify, Fixed Modify.

[**BackUp**] backup the selected device configuration file.

[**Import**] import the device configuration file.

7.1.4 Add Device

7.1.4.1 Auto Scanning

After opening the VMS Client, the scanning program will be automatically started and the devices in the same network segment will be automatically scanned.



Figure 7-4

7.1.4.2 Manually add a device

[**Search by IPv4 or IPv6**] Click IPV4 Search or IPV6 Search to search for devices in the same network segment.scanned.

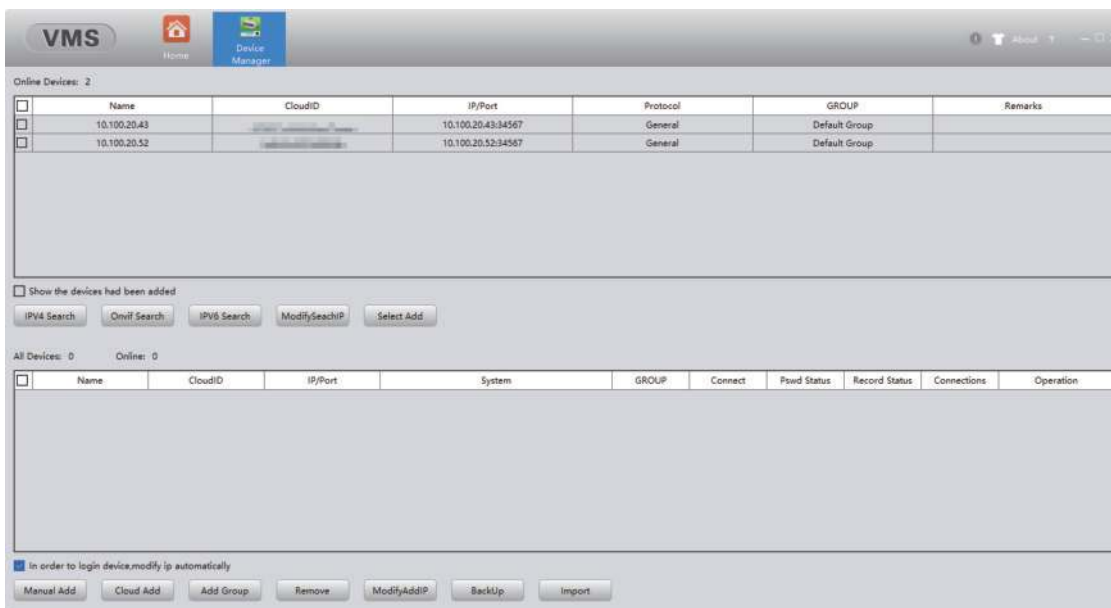
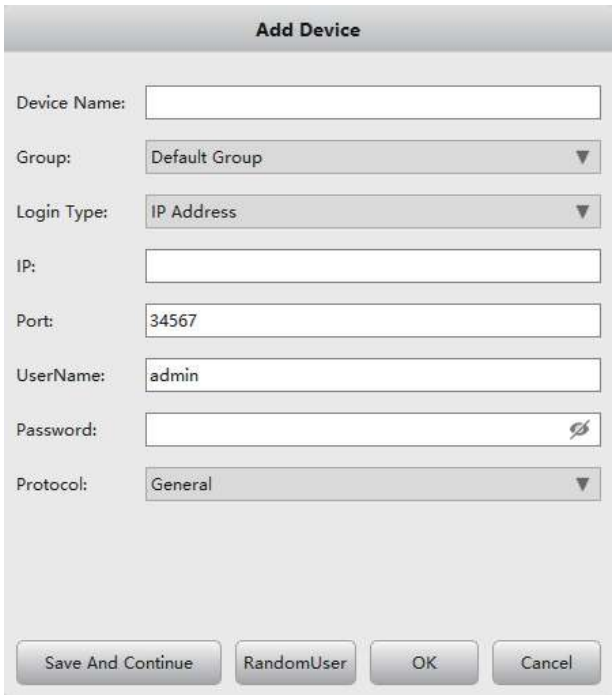
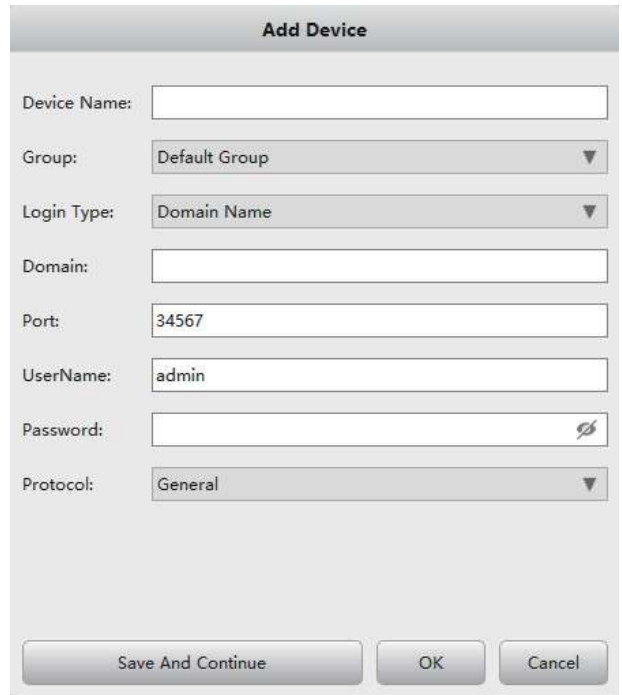


Figure 7-5

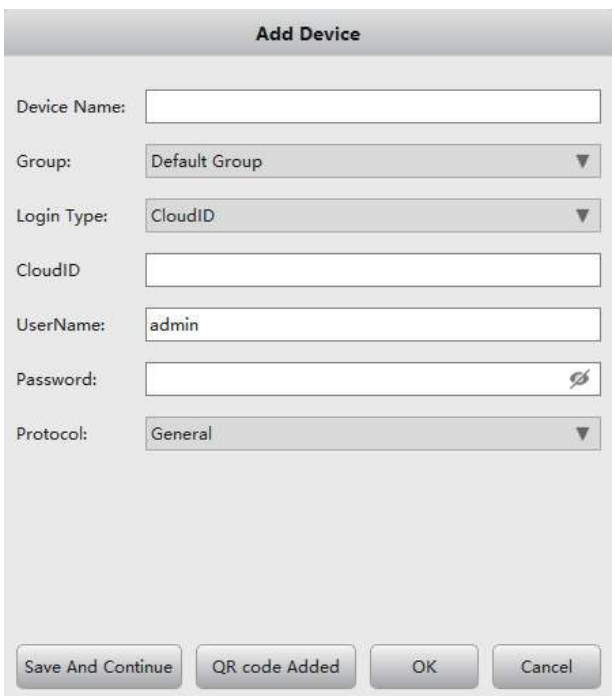
[**Manual Add or Cloud Add**] Connect to the device by entering the device's IP, Domain Name, CloudID, UserName, and Password.



IPV4 Connection



Domain Name Connection



CloudID Connection



IPV6 Connection

8 Mobile

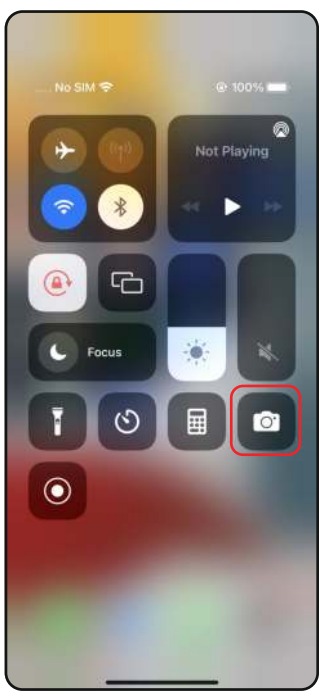
8.1 Install Mobile APP

We recommend using the XMEye pro app to connect to DVR devices, and the ICSee app can also be used, but it is not recommended.

IOS Download QR Code

Android Download QR Code

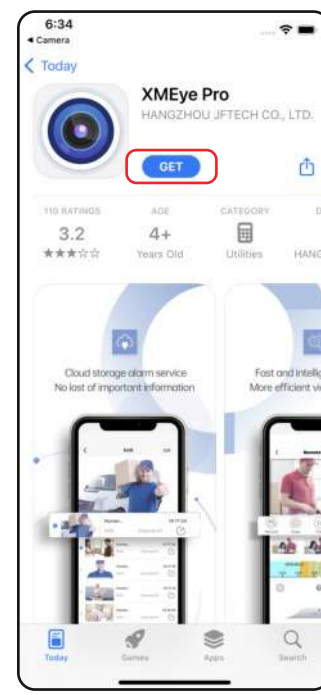
8.1.1 Download APP by Scan QR Code



① Open QR Code Scan APP



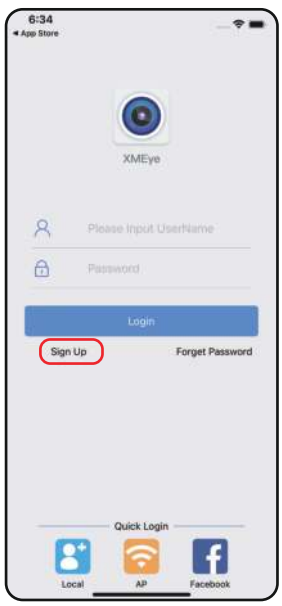
② Scan app download QR Code



② Get app in App Store or Google Play

8 Mobile

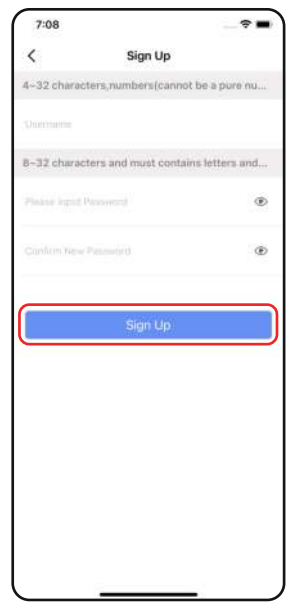
8.1.2 Sign up & Login



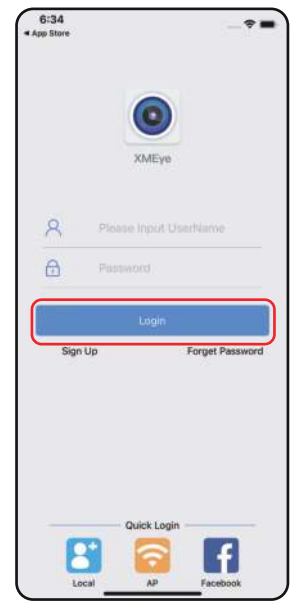
① Click Sign Up to register an account;



② Input E-mail to get verification code and Next;



③ Input username and password to register;



④ Enter the username and password to Login

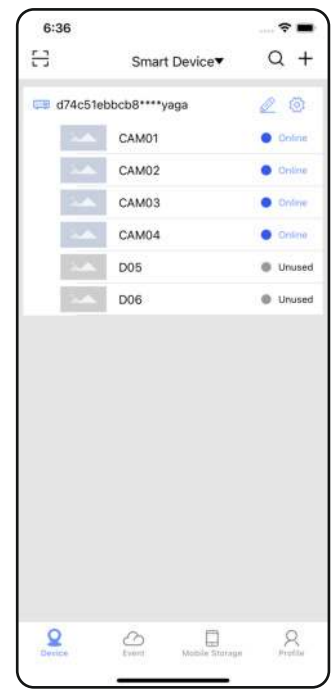
8.1.3 Add device



① Click the QR code scan icon in the upper left corner.



② Point the phone lens to the QR code of the DVR.



③ The DVR device is bound to the APP.