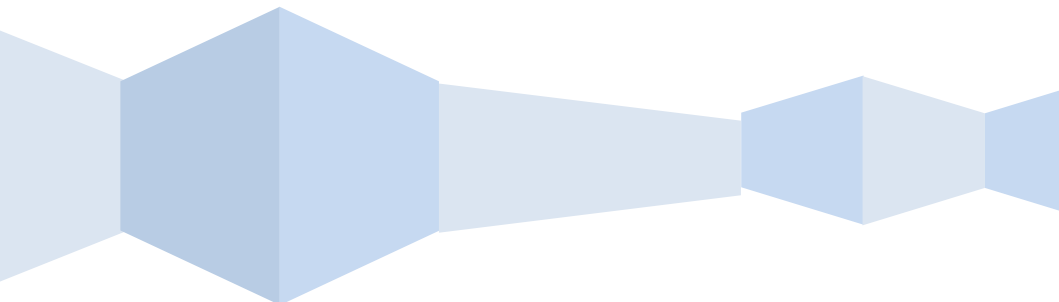




# **Coaxial HD XVR**

## **User Manual**

Version 9.1.51.5





# Declaration

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## Safety Precautions



### Notice

- Please modify the default password in time after the device is controlled to avoid being stolen.
- Please do not place and install equipment directly under the sunlight or near heating device.
- Please do not install equipment at moist place or place with dust or soot.
- Please keep equipment installed horizontally, or install equipment in a stable place, avoid the equipment falling down.
- Please avoid liquid dropping on the equipment, make sure no objects filled (eg cups) with liquid on the equipment and prevent liquid from leaking.
- Please install the device in a well-ventilated place, do not block the vents of the equipment.
- Please only use equipment within rated input/output.
- Please do not dis-assembly at liberty.
- Please transport, use and reserve the equipment within allowing humidity (10%~90%) and temperature (-10°C~+55°C) .



- When cleaning the device, unplug the power cord and completely shut off the power.
- The dust on the circuit board inside the XVR may cause a short circuit after being exposed to moisture. Regularly clean the circuit board, connectors, chassis, and chassis fan with a soft brush. If dirt is difficult to remove, wipe it off with a neutral detergent diluted in water and wipe it dry.
- Do not use volatile solvents such as alcohol, benzene, or thinner when cleaning the device. Do not use strong or abrasive cleaning agents. This can damage the surface coating.
- Please purchase the XVR dedicated hard drive recommended by the equipment manufacturer from the formal channels to ensure the quality and usage requirements of the hard drive.
- Make sure that there is no threat due to uneven mechanical load.
- Make sure that the video and audio cables have enough controls to install the cable. The bend radius of the cable should not be less than 5 times the cable diameter.
- Make sure that the alarm cable is firmly installed and the contact is good.
- Make sure that the XVR is reliably grounded.



### **Warning**

- Please do use the battery as requested, or it may lead to a battery fire, explosion or risk of burning!
- Please use the same type of battery when changing it.
- Please do use recommended cord sets (power cords), do use within the rated specifications.
- If you connect the product to the Internet at your own risk, including but not limited to products that may be subject to cyber-attacks, hacking attacks, virus infections, etc., the company will not be responsible for product abnormality, information leakage, etc., but the company will timely provide you with product-related technical support.





### **Caution**

- After receiving the product, please open the packing box, take out the equipment, and confirm the packing product and accessories according to the packing list in the box.
- If you find any damage to the contents of the box or any missing parts, please contact your dealer promptly.



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IPEYE

Channel

CH01

IPEYE Client

http://172.18.193.94:8282

Enable

☒

IPEYE only supports H264 encoding

Save



# **Chapter 1 Outline and Feature**

## **1.1 Outline**

The item is a five hybrid coaxial HD hard disk video recorder, compatible with HDTVI, AHD and other coaxial HD specifications, free access to HDTVI, AHD, CVI, CVBS, and network signal. You can disable the analog channels to increase the number of IP channels, which combines the dual functions of DVR and NVR. It characterizes local previewing, multi-picture division displaying & local real-time storage of recorded files. It supports shortcut operating of mouse and remote managing and controlling. It has two ways of storage--Front storage & client-side storage. Front-end monitoring points can be located anywhere on the network without geographical restrictions. And the use of a number of IT high and new technology, both to achieve independent HD monitoring, but also can be networked to form a strong security system.

XVR can be widely used in financial, public security, military, telecommunications, transportation, power, education, water conservancy and other areas of security.

## **1.2 Default**

- The factory default super administrator account is admin and the password is 12345.
- XVR factory default IPv4 address: 192.168.1.88.

## **1.3 Descriptive content agreement**



In order to simplify the description in this manual, the following conventions are made:

- The "device" mentioned in this manual mainly refers to the XVR.
- The "IP device" mentioned in this manual mainly refers to IPC, IP DOME, or DVS.
- The "channel" mentioned in this manual refers to the XVR's IP channel.
- Click the "X" or "Cancel" button to return to the previous screen.
- Click All Interfaces Default to restore the current factory default settings.
- Click "Apply" and "Save" on all screens to save the current settings.
- Click all the interfaces "Copy" to enter the copy channel interface, select the channel, and copy the current channel configuration to the selected channel.

## 1.4 Function Features

The XVR features are as follows:

- High-definition XVR series, support HDTV, AHD, CVI, CVBS, IP input (5 in 1 hybrid).
- Support network equipment access and can work with network cameras, network dome and network video server which with ONVIF protocol; Can increase the number of IP channels by disable the Analog channels, come with dual function of DVR and XVR.
- Each channel supports dual-stream encoding.
- The video coding parameters of each channel are independently adjustable, including resolution, frame rate, code rate, image quality etc.
- Support composite stream and video stream encoding. Audio and video synchronized when it is composite stream encoding.
- Each analog channel supports configuration of front-end camera OSD information.
- Support HDTV signal and analog switching adaptive.
- Support for watermarking technology.
- Support H.264/H.264+/H.265/H.265+ video compression format IPC access(1080N series does not support H.264 +), HI3521series, HI3531 series maximum support 800W resolution, HI3520DV300 maximum support 500W resolution, HI3520DV200 maximum support 1080P resolution network camera intake.
- Support G.711μ /G711audio compression format.



- USB2.0 or USB3.0 interface, support backup, software upgrades, mouse operation.
- Support U disk or mobile hard disk in FAT32, NTFS, exFAT and other formats.
- Support 23 languages: Chinese Simplified / Chinese Traditional / English / Polish / Czech / Russian / Thai / Hebrew / Arabic / Bulgarian / Persian / German / French / Portuguese / Turkish / Spanish / Italian / Hungarian / Romanian / Korean / Dutch / Greek/Vietnamese.
- Support BitVision App, iVMS320 platform access.

### ➤ **Local Monitoring**

Local Monitoring features as below:

- Supports local VGA and HD homology output, and HD supports up to 4K resolution output.
- 4-channel XVR support 1 / 4 / 8 / 9 screen preview, 8-channel XVR support 1 / 4 / 8 / 9 / 16 screen preview, 16 channel XVR support 1 / 4 / 8 / 9 / 16 screen preview, 32-channel XVR support 1 / 4 / 8 / 9 / 16 / 25 / 32 screen preview.
- Support adjust the preview channel order by drag the mouse.
- Support preview manually or auto-tour preview, automatic polling cycle can be set.
- Supports video motion detection, video loss detection and intelligent detection.
- Support UTC coaxial visual control protocol, can access the menu easily when connect to HD-Analog camera; For HD-PTZ Camera, no need to connect RS485, simple and convenient.
- Support a variety of mainstream PTZ decoder control protocols, support preset points, cruise paths.
- Achieve IP PTZ camera control through the ONVIF protocol.

### ➤ **Hard disk management**

Hard disk management features as below:

- Each SATA interface support up to 8T hard drive.
- Support hard disk formatting.
- Supports hard disk loss and hard disk abnormal alarm.

### ➤ **Video Record and Playback**



Features as below:

- Video compression standard is H.264 / H.264+ / H.265 / H.265+, with timed recording function.
- Support for setting up recording schedules using drawing and editing methods.
- Support the main, sub-stream recording at the same time.
- Support cyclic writing.
- Maximum 6 recording time can be set in each day, and the recording trigger mode can be set independently for different time periods.
- Recording trigger modes include timing, alarm, motion detection, motion detection or alarm, and intelligent detection.
- Support video data retrieval and playback through channel number, video type, file type, start and end time.
- Support electronic zooming of preview & playback images.
- Support pause, fast, rewind (Local) and slow (Web) release in playback, support mouse drag positioning.
- Support multi-channel simultaneous playback of video.

#### ➤ **Data backup**

Features as below:

- Support backup by USB interface.
- Support U disk or mobile hard disk in FAT32, NTFS, exFAT and other formats.
- Support batch backup by file and time.
- Support for iVMS320 clip-by-clip backups.

#### ➤ **Alarm and exception management**

Features as below:

- Some models support alarm input / output arming time setting.
- Some models support multi-channel external alarm input and output.
- Supports video motion detection alarm, video loss alarm, humanoid detection alarm, face comparison alarm, network disconnection alarm, IP Conflict alarm, Disk error alarm and Disk loss alarm.
- Various alarms can trigger pop-up alarm screen, voice warning, email sending and trigger alarm output. Besides, video motion detection can trigger any channel for video inspection; Various exceptions can trigger audible alerts, email sending, and trigger alarm output.



### ➤ **Other Local Functions**

Features as below:

- Users can quickly and easily set the system parameters by XVR buttons frontal, USB mouse.
- Administrator can create multi-user and set permissions, which can be refined to the channel.
- Complete operations, alarms, exceptions, and information logging and retrieval.
- Some models support local alarms and upgrade front-end features.

### ➤ **Network Function.**

Features as below:

- Support a 10M / 100M adaptive network interface, 3531A series support 10M / 1000M adaptive network interface.
- Support remote client privileged access, improve system security.
- Support TCP / IP protocol cluster, support DHCP, DNS, HTTP, SMTP, RTSP, UPnP and other protocols.
- Embedded WEB SERVER, support HTTPS protocol, improve the security of network access.
- Support remote search, playback, download.
- Support remote access and configure parameters.
- Support remote access to equipment running status, system log and alarm status.
- Support remote formatted hard disk, upgrade program, restart and other operations for system maintenance.
- Support remote manual trigger & stop recording.
- Support remote manual trigger & stop alarm output.
- Support alarm pushes function.
- Support remote FTP server configuration.
- Support remote PTZ control.
- Support for BitVision App.
- Support ONVIF protocol access to platform.



## Chapter 2 XVR Appearance

### 2.1 Front Panel Introduction

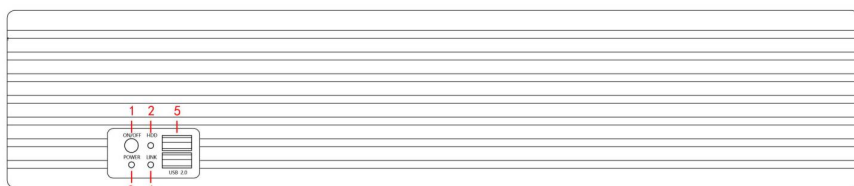


Figure 2-1

No.	Name	Description
1	Power switch	Turn the device on/off.
2	HDD indicator	The hard disk is blue when it is being read or written.
3	Power indicator	It turns solid red when the device is turned on.
4	Internet indicator	Green when the network connection is normal.
5	USB interface	Can be connected to a mouse, U disk, mobile hard disk and other equipment.

Table2-1



#### Note

- The panel diagram does not reflect the product size and ratio. Please refer to the actual product for details.



## 2.2 Rear Panel Introduction

The schematic diagram of the rear panel of the common equipment is as follows:

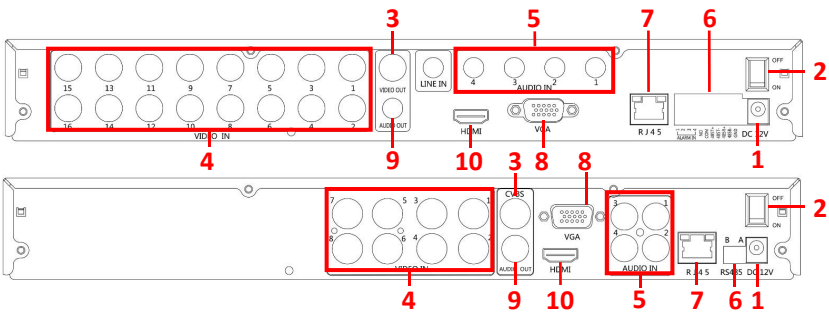


Figure 2-2



No.	Name	Description
1	Power input	DC12V
2	Power switch	Power ON/OFF
3	Video output	Output by TV/BNC
4	Video input	BNC
5	Audio input	audio input
6	Alarm input	4 /I alarm input
	Alarm output	I/O output for alarm
	RS 485	RS 485 for connecting PTZ
7	Network	For connecting Ethernet
8	VGA	For connecting VGA monitor
9	Audio output	For connection audio output
10	HD	For connecting HD monitor

Table 2-2



Note

- For informational purposes only, subject to object.

## 2.3 Mouse Operation Instructions

Operate XVR through mouse left button, right button & scroll wheel.

Mouse actions	Function
Click left mouse button	<ol style="list-style-type: none"> <li>1. Select one of the options;</li> <li>2. Insertion cursor, enter or modify the value of a parameter.</li> <li>3. When playing back, click the timeline to switch the playback progress.</li> </ol>
Click right mouse button	<ol style="list-style-type: none"> <li>1. When interface not locking, click right mouse button, system menu pops up;</li> <li>2. When interface locking, click right button on real-time preview interface, login interface pop up;</li> <li>3. Entered to main menu, to a submenu of PTZ control, click right mouse button on the menu interface, return to previous menu (except</li> </ol>




	<p>video playback interface);</p> <p>4. Entered to close system interface, click mouse right button on the interface, return to preview interface.</p>
Double-click the mouse left button	In the preview and playback state, switch between single screen and multi screen.
Mouse drag	<ol style="list-style-type: none"> <li>1. In the pan/tilt control state, the direction is rotated.</li> <li>2. In the video occlusion alarm and motion detection alarm area settings, set the area range.</li> <li>3. Drag the area of the electronic zoom.</li> <li>4. In the preview interface, select a channel and press and drag to switch to other channel locations.</li> <li>5. When playing back the video, drag the progress bar to switch the video file to be played.</li> </ol>
Slide mouse scroll wheel	<ol style="list-style-type: none"> <li>1. Time setting.</li> <li>2. Select the drop-down menu values.</li> <li>3. When previewing, you can switch the preview channel.</li> <li>4. When zooming in electronically, you can zoom in and out of the video image.</li> </ol>

Table 2-3

## 2.4 Input Method Introduction

Input method includes lowercase and uppercase English letters. Clicking

“” button on the left can switch the input method and the symbol


“” represents deleting incorrect input, as shown in Figure 2-3 and Figure 2-4:





Figure 2-3 Uppercase English input



Figure 2-4 Lowercase English input

## Chapter 3 Connecting XVR

### 3.1 Hard Disk Installation



#### Notice

- Before installation, please confirm that the power has been disconnected.
- Please use the XVR dedicated monitor hard drive recommended by the device manufacturer.



## Installation tools

A Phillips screwdriver

## Hard disk installation

**Hard disk installation guide for XVR C/D/CB/DB series as shown in Figure 3-1:**

- (1) Unscrew the screws on the back and sides of the chassis and remove the cover.
- (2) Connect one end of the hard disk power cable and data cable to the motherboard and the other end to the hard disk.
- (3) Align the hard disk screw holes to the chassis backplane, and then tighten lock the screws.
- (4) Install the cover and fix it by screws.

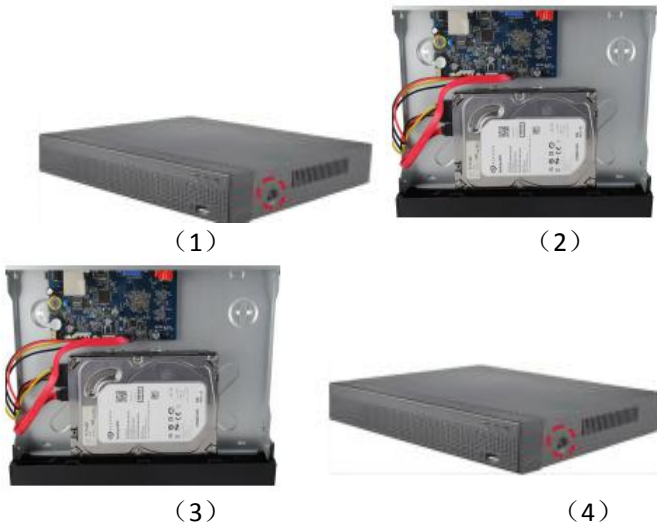


Figure 3-1

**Hard disk installation guide for XVR L series as shown in Figure 3-2:**

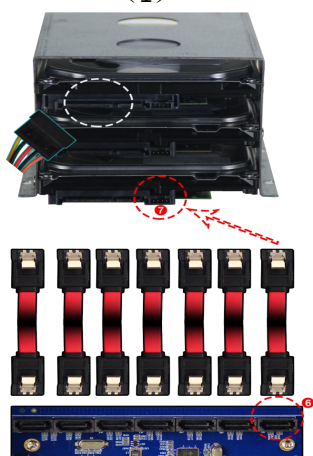
- (1) Unscrew the back panel screws and take off the cover.
- (2) Remove the hard disk rack.
- (3) Install the hard disk to the rack from top to bottom.
- (4) Fix the hard disk by screws.
- (5) Install the rack and fix it.
- (6) Connect the hard disk power cable and data cable.
- (7) Install the cover and fix it by screws.





(1)

(2) - (4)



(5) (6)



(7)

Figure 3-2



### 3.2 Device Connection

Use VGA cable or 1080P cable to transmit the XVR signal to the display. If it is a controllable PTZ, use wire to connect RS485 A cable and RS485 B cable to the corresponding RS485 interface on XVR, as shown in Figure 3-3:

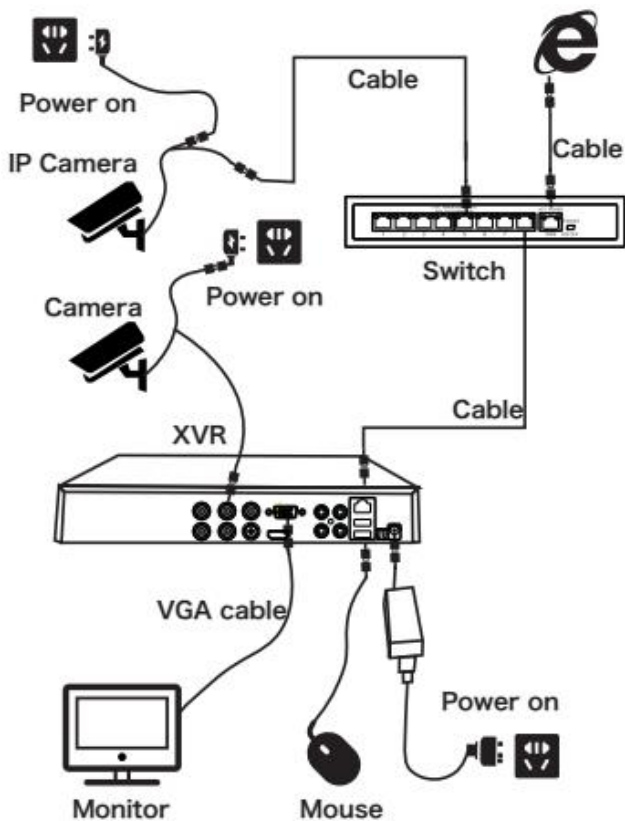


Figure 3-3



## Chapter 4 XVR Startup

### 4.1 System Initialization

The steps to turn on XVR are as follows:

- ① Connect the device to the analog camera, monitor and plug in the mouse and power cord.
- ② Turn on the power switch on the rear panel to start the device. The system initialization screen appears, as shown in Figure 4-1.



Figure 4-1



#### Caution

- Please confirm that the voltage to be connected matches the XVR requirements and ensure that the XVR ground is well grounded.
- If the power supply is abnormal, the XVR may not work properly or even damage the XVR. It is recommended to use a regulated power supply for power supply.



#### Note



- After the device starts up, it can be simply configured through the boot wizard, which is the normal operation of the device.

## 4.2 Boot wizard

### 4.2.1 Quick Startup Wizard

Quickly configuration the XVR as shown in Figure 4-2:

- ① After the device starts, enter the "Boot Wizard" and click "Next Step".

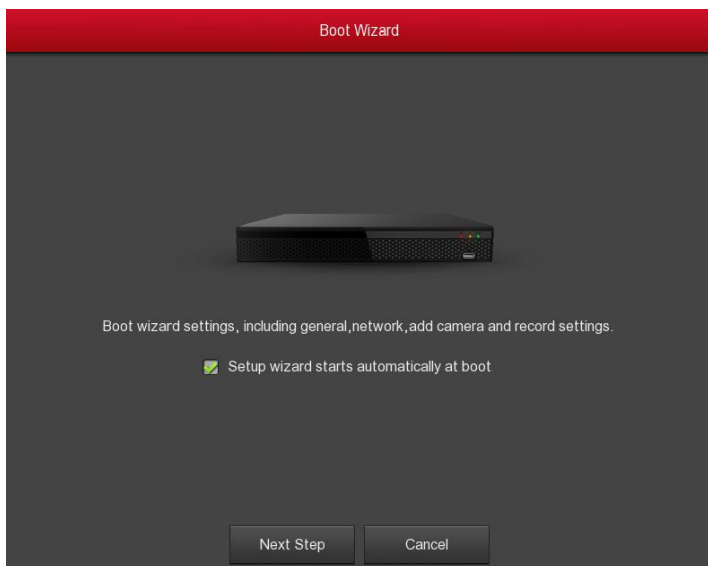


Figure 4-2 ①

- ② Then select a user name, enter the user password, select the system language and click "Login" to login the system (the default username is admin, password is 12345).



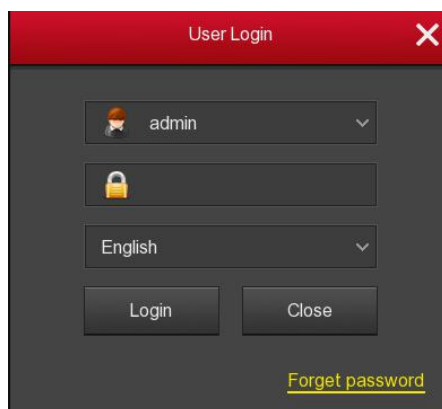


Figure 4-3 ②

③ When the login password is too simple, a security password prompt will pop up. Click "Modify".

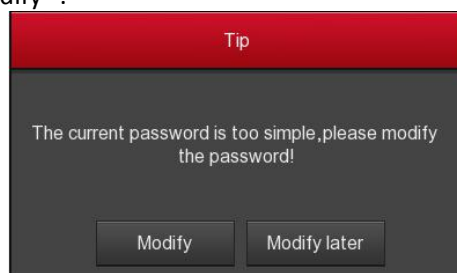


Figure 4-2 ③

④ Click the "New password" box, enter a new password, confirm the new password, select the security question, enter the corresponding answer, click "Save"; insert a USB flash drive on the device, and click "Export key".



Modify Password

User Name	admin
New Password	
Confirm	

Warning: The password must not be less than 8 bytes and contain at least one digit and letter!

Please set security issue

Security Issue 1	Please select issue	▼
Answer1		
Security Issue 2	Please select issue	▼
Answer2		
Security Issue 3	Please select issue	▼
Answer3		

Warning: Forget the security issue and don't have key file, need to return the equipment to the factory.

Save

Clear

Export Key

Cancel

Figure 4-2 ④

⑤ Go to the "General" interface, configure the Device setting and date, and click "Next Step". For details, see "5.3.6.1 General".



General

Device Settings

Date Settings

Language	English	▼
Record Mode	Overwrite	▼
Record Days	No limit	▼
Video Standard	PAL	▼
Standby Time(min)	0	
Device Name	XVR	

Default

Apply

Cancel

Next Step

Figure 4-2 ⑤

⑥ Go to the "Network" interface, configure the network parameters of the device. Click "Next Step". For details, see "5.3.6.2 Network".



Network	
IP Address	192 • 168 • 1 • 34
Enable DHCP	<input type="checkbox"/>
Network Mask	255 • 255 • 254 • 0
Gateway	192 • 168 • 1 • 1
Primary DNS	172 • 18 • 192 • 1
Secondary DNS	8 • 8 • 8 • 8
Broadcast IP	0 • 0 • 0 • 0
Device MAC	11:22:33:44:55:66
TCP Port	5000
HTTP Port	80
RTSP Port	554
Private port	6000
RTSP encryption enable	<input type="checkbox"/>
<div>RefreshDefaultCancelPrevious StepNext Step</div>	

Figure 4-2 ⑥

⑦ Go to the "Add Camera" interface, you can search for and add devices and click "Next Step". For details, see "5.3.5.1 Add Camera".



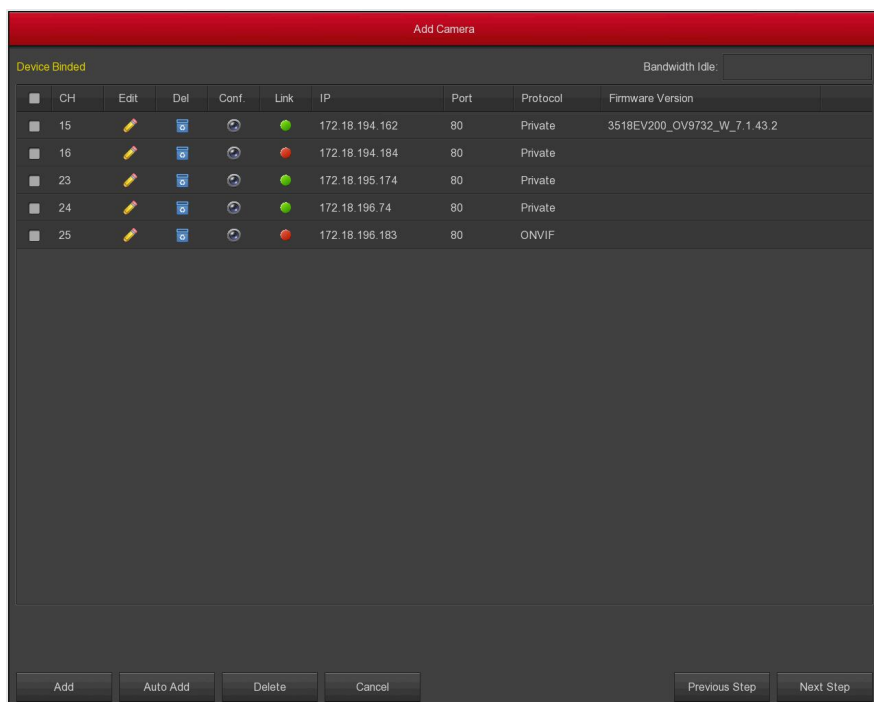


Figure 4-2 ⑦

⑧ Go to the "Record Setup" interface, set the video plan, support the manual drawing schedule, click "Complete", the boot wizard is set up. For details, see section "5.3.4.1 Schedule".





Figure 4-2 ⑧



### Note

- On the startup wizard screen, click Cancel to exit the startup wizard.
- When the password is too simple, after the login, a password strength security interface will pop up. You can click "Modify later" to continue using the existing password.
- Please confirm that the XVR device has been properly connected to the network before setting up the network parameters.
- System default setting is all channels are recorded 24 hours a day.
- If the boot wizard has been configured for the first time, click "Menu → Configuration → General", cancel check "Enable wizard at startup", and the boot wizard interface will no longer appear after the next boot.

## 4.2.2 Forget Password

If you forget your password, you can click "Forget password" on the login page to enter the safety verification interface to reset the password (as



shown in Figure 4-3). The password can be reset via "Answer the question", "Import Key" and "Dynamic Password".

Safety verification

Verification Mode	Answer The Question
Security Issue 1	Please select issue
Answer1	
Security Issue 2	Please select issue
Answer2	
Security Issue 3	Please select issue
Answer3	

Next Step

Clear

Cancel

Figure 4-3

- **Answer the question:** Select the three security questions when setting the password and enter the answer to the corresponding question to enter the new password setting interface, as shown in Figure 4-4.



Modify User	
User name	admin
Modify password	<input type="checkbox"/>
Old password	
New password	
Confirm	
Level	Administrator ▼
<div> <div>Save</div> <div>Cancel</div> </div>	

Figure 4-4

- **Import key:** Select the authentication method as Import Key, as shown in Figure 4-5.

Safety verification	
Verification Mode	Import Key ▼
<div>Import</div>	

Figure4-5

- ① Insert the USB disk (the key file exported when the device setting password is stored) on the device, and click Import to import the key file into the device.
- ② In the modification user interface, enter a new password, confirm the password, and click “Save”, as shown in Figure 4-6.



Modify User

User name	admin
Modify password	<input type="checkbox"/>
Old password	
New password	
Confirm	
Level	Administrator ▼

Save Cancel

Figure4-6

- **Dynamic Password:** Select the authentication method as Dynamic Password, as shown in Figure 4-7.

Safety verification

Verification Mode	Dynamic Password ▼
Serial number	AF5EDC8289FEA720
Dynamic Password	

Tip: Keep this page until you have obtained a dynamic password.

Next Step Clear Cancel

Figure4-7



- ① Enter the dynamic code obtained from the supplier and click "Next".
- ② In the modification user interface, select "Change Password", enter a new password, confirm the password, and click "Save".



**Note**

- When selecting "Answer The Question", you must answer at least 2 questions, and the answer must be exactly the same as the setting answer when setting the password, in order to enter the "Modify User" interface.
- When you select "Import Key", the key file in the USB flash drive must be the key file exported by this device.

**4.3 Preview Interface**

After the system is fully booted, it will enter into the default preview interface, as shown in Figure 4-8.





Figure 4-8

After the device normally starts up, the default setting is to preview in multi-screen display mode. Products with different channels has different amount of split screens to display. On the preview interface, you can set the appropriate date and time. On the bottom left of the screen, it shows the recording status of each video channel or alarm status icon.

The function of each icon is shown in the following table:





Icon	Function
	The monitoring channel is in the recording state.
	The monitoring channel is in motion detection state.
	The monitoring channel is in a smart alarm state.

Table 4-1

## 4.4 Quick add device

In the preview interface, you can quickly add a webcam to a channel that is not connected to the webcam, as shown in Figure 4-9 below:

- ① In the preview interface, click anywhere in the device channel that is not connected, and click the " " icon in the lower right corner of the channel.

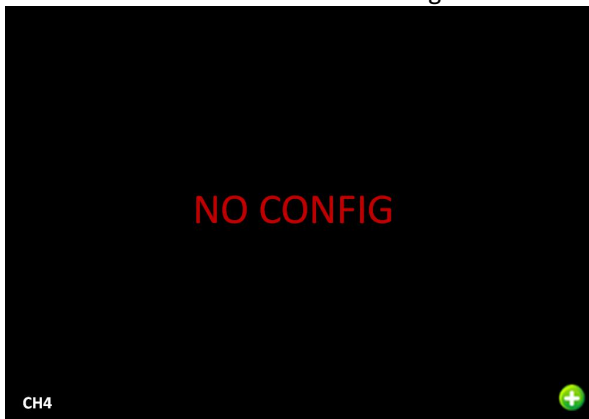


Figure 4-9 ①

- ② Select the device to add and click "Add".



Device Search				
			Filter	Onvif and Private
40	IP	Port	Protocol	Firmware version
1	172.18.190.94	8004	Private	3516C_IMX322_W_6.1.26.1
2	172.18.190.117	8817	Private	S2L33M_IMX322_PT_Z_W_6.1.46.3
3	172.18.190.118	8818	Private	S2L55M_IMX123_W_7.1.3.2
4	172.18.190.155	8855	Private	S2L33M_IMX323-SD_W_6.1.38.1
5	172.18.190.157	8857	Private	S3L33M_IMX290_W_7.1.3.2
6	172.18.190.163	8863	Private	S2E66_IMX178_W_7.1.3.2
7	172.18.190.173	8973	Private	3519V100_IMX274_W_7.1.3.2
8	172.18.190.174	8874	Private	3516CV200_OV2718_W_7.1.3.3
9	172.18.192.5	8899	ONVIF	
10	172.18.192.245	88	Private	3516C_OV4686_W_7.1.3.2

Figure 4-9 ②

- **Search:** Click to search all online IP devices in the LAN according to the protocol in the "Filter" box.
- **Add:** Add selection device.
- **Manual Add:** For details on how to manually enter device information, see 5.3.5.1.
- **Filter:** Filter the conditions, select the display filter conditions, click "Search", the device searches all IPCs in the LAN, and displays the filters that meet the conditions.



#### Note

- Filter Search Add Device: In the Add Device interface, select the corresponding protocol in the "Filter" column → "Search" → Select Device → Click "Add".
- Manual Add: On the Add Device screen, click "Manual add" → Click "Enable check box" → Select Protocol, Preview Stream, Enter Password, IP, Port → click "Save".
- The IP channel only supports the quick add function.

## 4.5 Channel shortcut menu














After adding a device to a channel, click the channel. The shortcut menu appears as shown in Figure 4-10.



Figure 4-10

The function of each icon is shown in the following table:

Icon	Function
	Face detection, set this button to enter the face detection interface.
	The current channel access signal is an analog signal.
	The current channel access signal is a "CVI" signal.
	The current channel access signal is a "AHD" signal.
	The current channel access signal is a "CVBS" signal.
	The current channel access signal is a "TVI" signal.
	The current channel access signal is "IPC", which is a network camera.
	Instant playback button, click the button, the channel playback 5 minutes before the video.
	Audio output control button, click to set the channel output volume and mute.
	Electronic zoom button, click to open the electronic zoom function, press and hold the left mouse button to select the zoom area, release the mouse, the preview interface is displayed as the selected zoom area, and the original image of the channel is displayed in the lower right corner of the screen, which can be set by the blue inside. Adjust the zoomed area by the position and size of the frame; click the right mouse button to exit the electronic zoom and restore the live preview interface.
	Image color button, click into the image interface, you can set the channel brightness, contrast, saturation,





	sharpness of the parameter values.
	Bit stream information button, when the mouse moves to the icon position, the channel shows the current stream and other related parameters.
	Image channel shortcut menu close button, click to close the image channel menu.

Table 4-2

### ➤ Face detection



Click " " to enter the Face detection interface in the shortcut menu, as show in Figure 4-11:

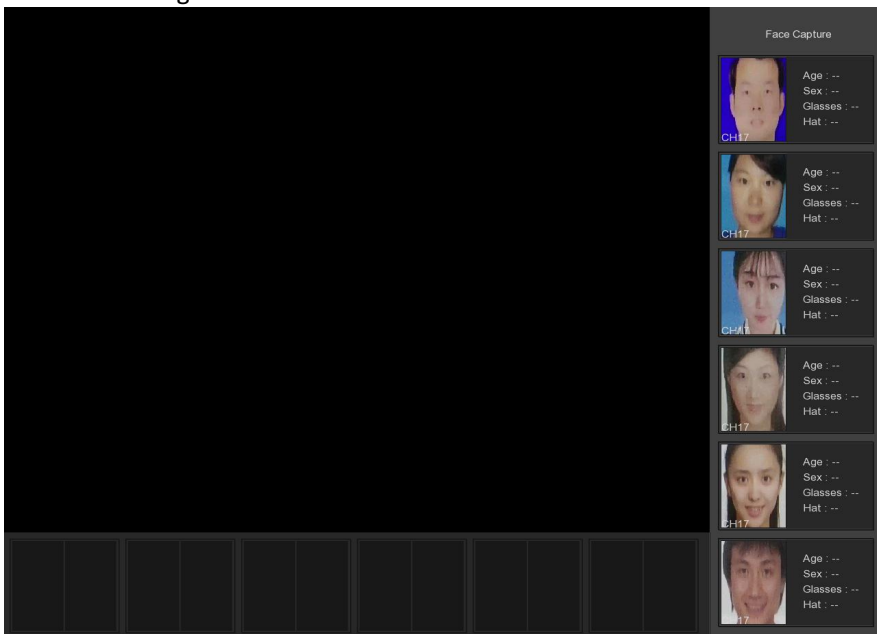


Figure 4-11

The face detection interface displays all the captured faces on the right side of the interface, and displays the age, sex, whether glasses or hats are worn by the device, whether or not there is a beard judgment result; below, the captured face and person are displayed. The face database satisfies the conditional picture comparison result.





### **Note**

- The image shortcut menu appears only if you click Channel after adding the device to the channel.
- Some XVR support previews electronic zoom to switch to full screen, and can be zoomed in and out with the mouse wheel.



## Chapter 5 XVR Menu

### 5.1 Shortcut menu

Log in system, right-click it to pop up the XVR shortcut menu. As shown in Figure 5-1, you can switch the number of preview video windows, or enter the menu, Select Mode, Poll, Record Setup; Add Camera, Playback, PTZ, XVR image color, Face Comparison and other interfaces are related to the settings.

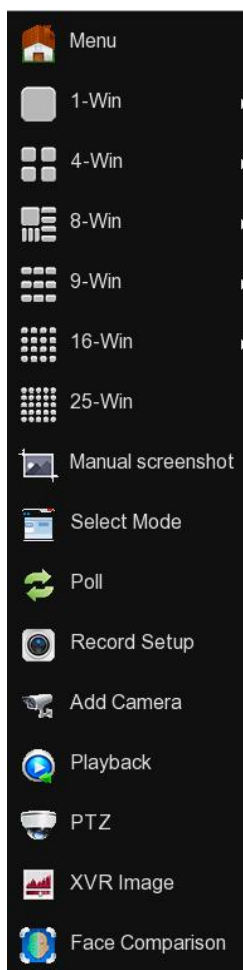


Figure 5-1



- **Menu:** Click and enter the main menu.
- **1-Win:** CH1, CH2, CH3, CH4, CH5 ..... CH24, CH25.
- **4-Win:** 4 channels divided into one display (CH1~CH4, CH5~CH8..... CH22~CH25).
- **8-Win:** 8 channels divided into one display (CH1~CH8, CH9 ~CH16.....CH18~CH25).
- **9-Win:** 9 channels divided into one display(CH1~CH9, CH10~CH18, CH17~CH25).
- **16-Win:** 16 channels divided into one display(CH1~CH16, CH10~CH25).
- **25-Win:** CH1-CH25 are all displayed.
- **Manual screenshot:** Click to take a screenshot of the current preview screen and enter the manual screenshot interface(Detailed operation as 5.1.1).
- **Select Mode:** Click to enter the select mode interface(Detailed operation as 5.1.2).
- **Poll:** Click into the poll setup interface (Detailed operation as 5.1.3).
- **Record Setup:** Click into the record setup interface (Detailed operation as 5.3.4.1).
- **PTZ:** XVR supports PTZ control, allowing users to remotely control the camera.(Detailed operation as 5.3.5.6).
- **Playback:** Click into the Playback interface.(Detailed operation as 5.3.1).
- **Add Camera:** Click and enter the add camera configuration menu.(Detailed operation as 5.3.5.1).
- **XVR Image:** Click into the image color configuration interface. (Detailed operation as 5.1.5).
- **Face Comparison:** Click to enter the face comparison interface(Detailed operation as 5.1.6).



#### Note

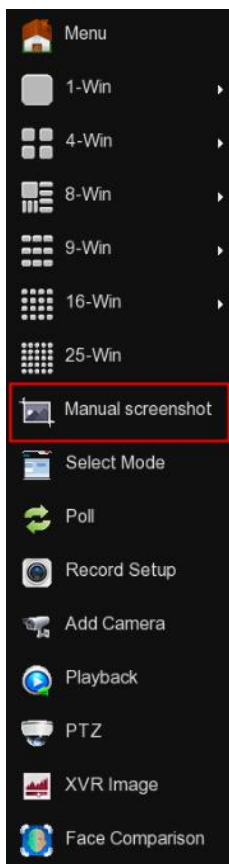
- Multi-screen display depends on the maximum number of channels supported by the device. For example, there are 9 screens in the shortcut menu of the 9-channel device and 16 screens in the 16-channel device shortcut menu...

### 5.1.1 Manual Screenshot

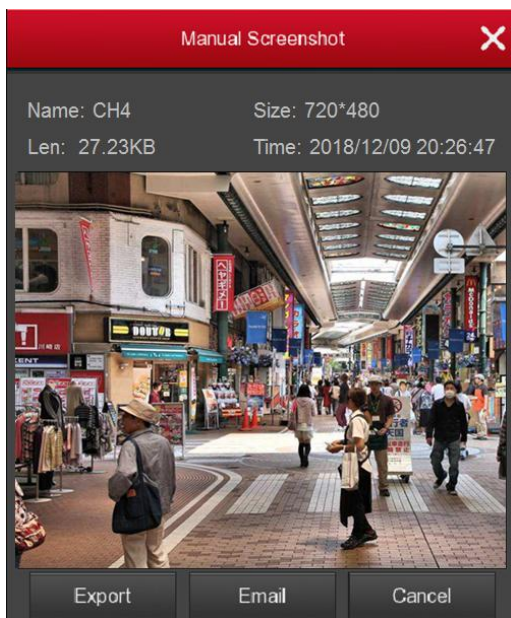
Manual screenshot are used to take a screenshot of a channel, export to a USB flash drive or send it to the recipient's mailbox as an email attachment. The manual screenshot steps are shown in Figure 5-2 below:



- ① In the preview interface, select the channel, click the right mouse button to pop up the shortcut menu, select "Manual screenshot";
- ② Insert a USB flash drive into the device and click "Export". The image is saved to the USB flash drive. Or click "Email", the channel screenshot is sent to the recipient's mailbox as an email attachment.



①



②

Figure 5-2



**Caution**



- When selecting "Email", you must first set the mail in " Menu → Configuration → Network → E-mail ", and you must ensure that the device can send mail normally online.

### 5.1.2 Select Mode

In the preview interface, click the right mouse button, click "Select Mode" to enter the "Select Mode" interface, here you can set the XVR access channel signal system uniformly, as shown in Figure 5-3.

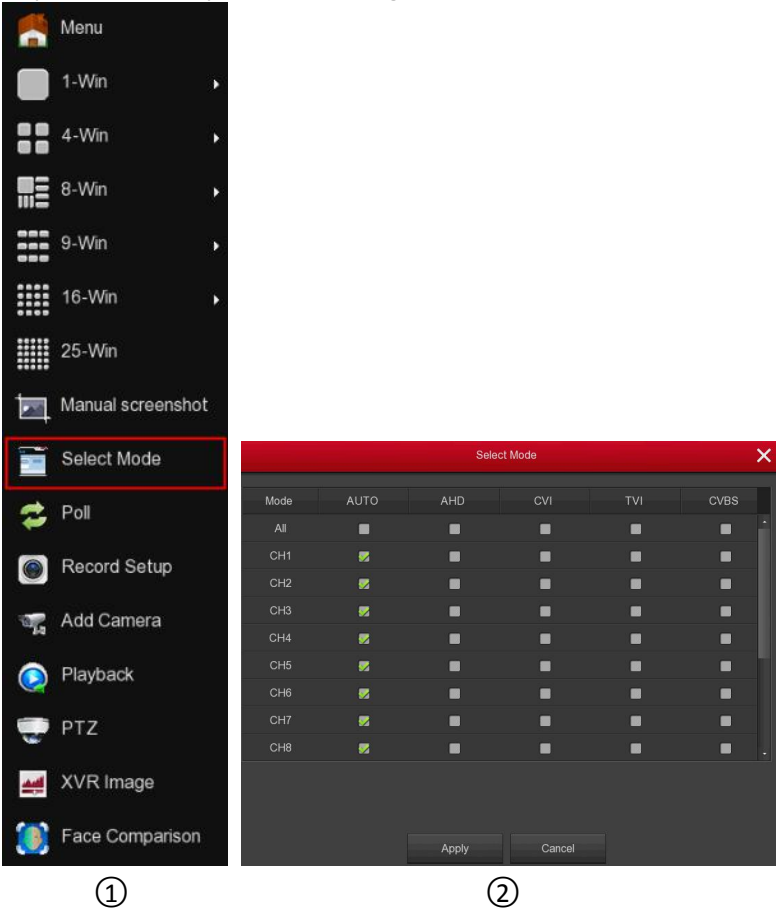


Figure 5-3



**Caution**

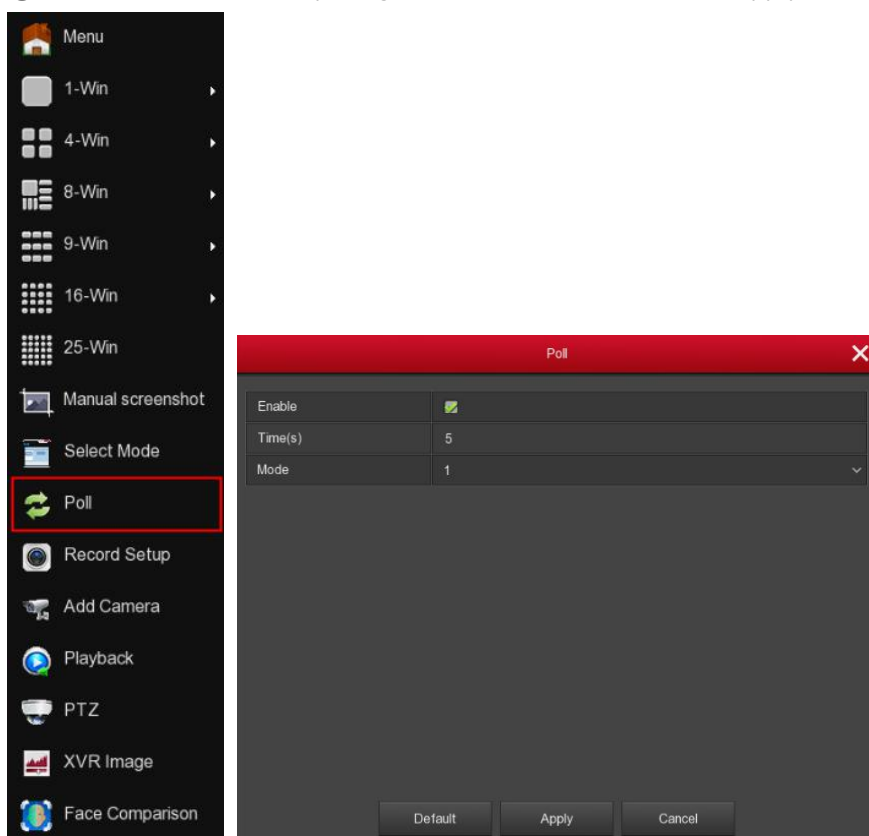


- The system selection is for the analog channel, and the system is selected according to the actual access signal. The system defaults to “AUTO” and can access any signal of “AHD/CVI/TVI/CVBS”. When the access video signal does not match (the channel does not appear, or the image is abnormal), you can choose the signal that the actual access signal is consistent.

### 5.1.3 Poll

The poll settings are as shown in Figure 5-4 below.

- ① In the preview interface, right-click and select "Poll".
- ② Enable round robin, set polling interval and mode, and click "Apply".



①

②

Figure 5-4

- **Enable:** Turn on/off poll function, default is off.



- **Time(s):** Round trip interface time, default 5 seconds.
- **Mode:** The screen number of split screen, the default single channel display.

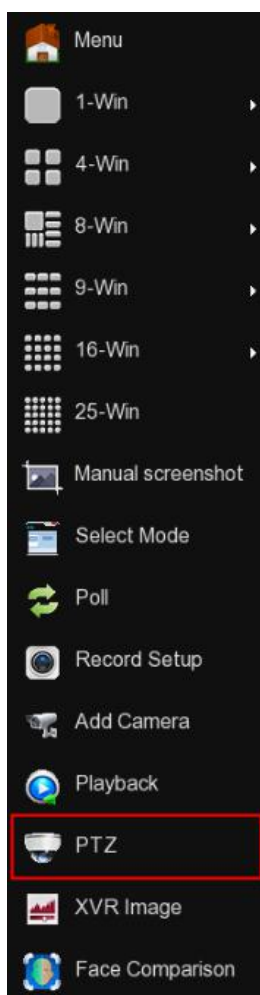
## 5.1.4 PTZ

In the preview channel, right-click and select "PTZ" to enter the PTZ control interface (single screen mode). PTZ setup interface is divided into PTZ control and Common control.

### ■ PTZ Control Interface

PTZ control interface is used to set the PTZ direction rotation (including upper, lower, left, right, upper left, lower left, upper right and lower right) of the gimbal equipment, focusing, zooming, aperture, rapid positioning and cruising, etc., use with the direction keys when setting.



















①



②

Figure 5-5



- **Channel:** Select the channel where the PTZ device is located.
- **Zoom:** Click  /  to adjust camera zoom in/out.
- **Focus:** Click  /  to adjust camera focusing.
- **Iris:** Click  /  to adjust camera brightness.
- **Speed:** Speed is to control PTZ movement speed. The value ranges from 1 to 7. The speed 7 is faster than speed 1.
- **Direction:** Adjust the direction of the head unit via "//  
////".
- **Confirm:** You can click "".
- **Cruise Set:** Click to enter the patrol setup interface.
- **Common Control:** Click to enter the common control interface.

### ■ Patrol Setup:

Click "Cruise set" to enter the patrol setup interface, you can set the relevant preset points, cruise line, including the dwell time and cruising speed. Shown in Figure 5-6 ① ②:

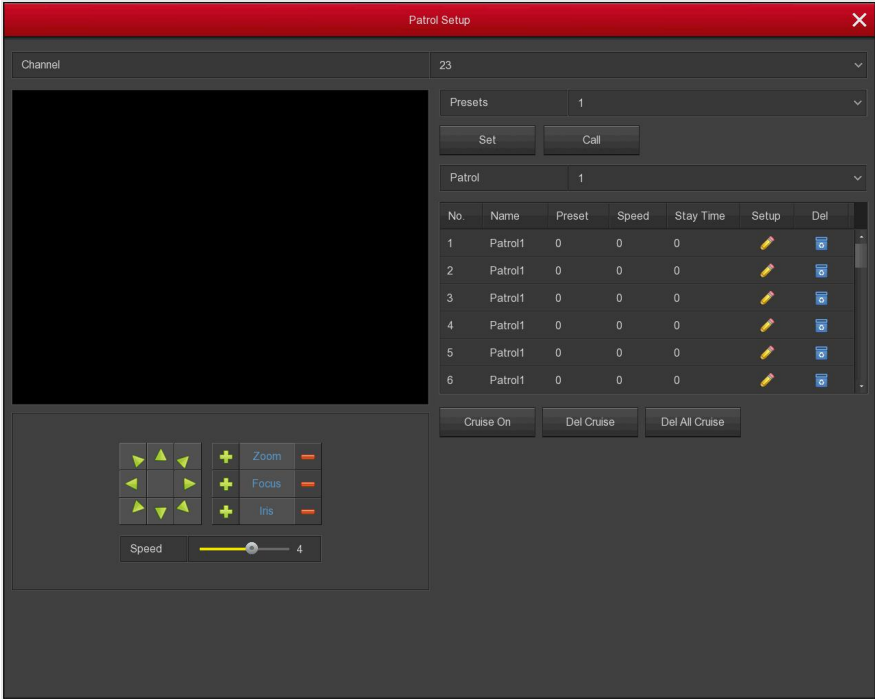




Figure 5-6 ①

Cruise Setup	
Preset No.	1
Stay Time	0
Speed	0

Confirm Cancel

Figure 5-6 ②

- **Preset setting:** In the Patrol Setup interface, use the direction button to rotate the head to the position where it stays when cruising, and then click the "set" button below the preset point to complete the preset point setting.
- **Call:** Click "Call" and the PTZ will jump to the currently selected preset position.
- **Cruise Setup:** In the Patrol Setup interface, select the cruise line and click the "🔧" button. In the pop-up cruise setting interface, select the preset number, stay time (seconds) and speed, click "Confirm" button, return to the cruise setting interface and click again. "Cruise on" saves settings and the device starts cruising. The cruise settings are detailed in 5.3.5.6.
- **Cruise On:** Click "Cruise On" and the system will cruise according to the selected cruise route.
- **Cruise Off:** Click "Cruise Off" and the system will close the current cruise route.
- **Del Cruise:** Select the cruise line, click "🔄" or "Del cruise" to complete the cruise line to remove.
- **Del All Cruise:** After clicking, delete all the set cruise lines.
- **Stay Time:** PTZ stays at the preset position.
- **Patrol speed:** PTZ speed when cruising.



## ■ Common Control

Common control for calling preset points, Select the cruise line to turn on / off the cruise, as shown in Figure 5-7:

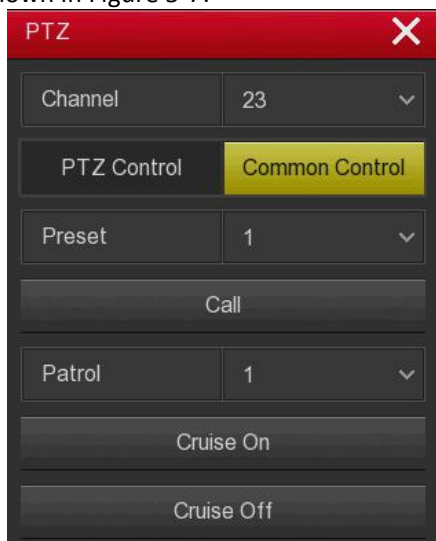


Figure 5-7

- **Preset:** Select a preset point.
- **Call:** Click on the PTZ to jump to the selected preset point position.
- **Cruise:** Select the cruise route you have set and click to turn cruise on/off.
- **Cruise On:** Click "Cruise On" and the system will cruise according to the selected cruise route.
- **Cruise Off:** Click "Cruise Off" and the system will close the current cruise route.



### Caution

- The XVR supports up to 255 preset points, but the actual number of preset positions is limited by the number of preset points that can be set by the camera. The maximum number of preset points supported by different PTZs is not necessarily the same.

## 5.1.5 XVR Image



In the preview interface, right-click and select "XVR Image" to enter the XVR Image Color interface, and then can configure the video properties of IPC. As shown in Figure 5-8.

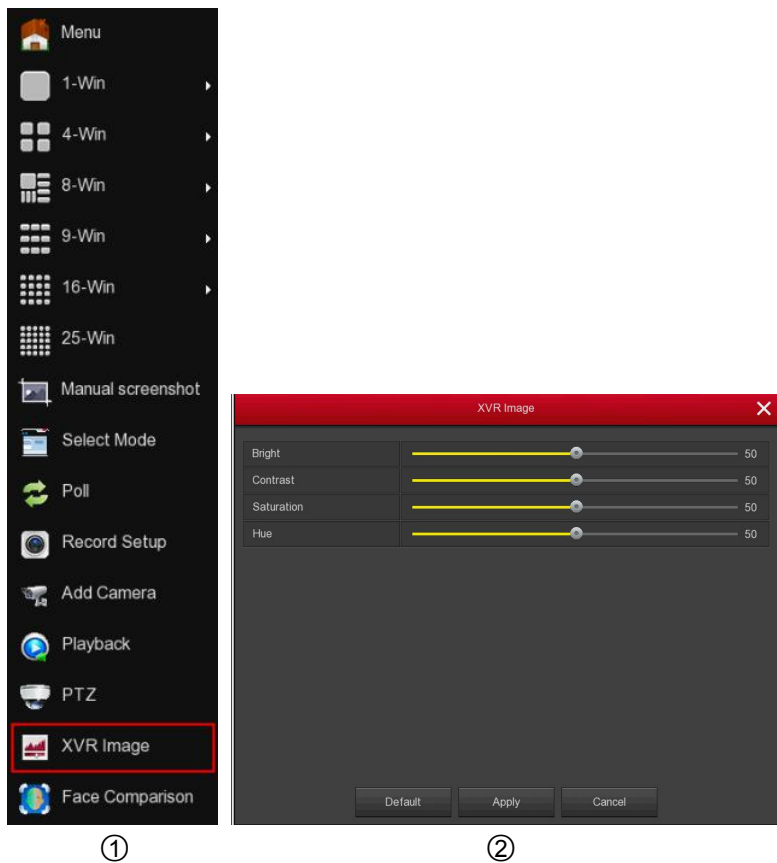


Figure 5-8

- **Bright:** It is to adjust monitor window bright.
- **Contrast:** It is to adjust monitor window contrast.
- **Saturation:** It is to adjust monitor window saturation.
- **Hue:** It is to adjust the overall color of the XVR image.

### 5.1.6 Face Comparison

In the preview interface, right-click and select "Face Comparison" to enter the XVR face comparison interface. You can view all the channel face captures and face comparisons that enable smart detection, as shown in Figure 5-9.



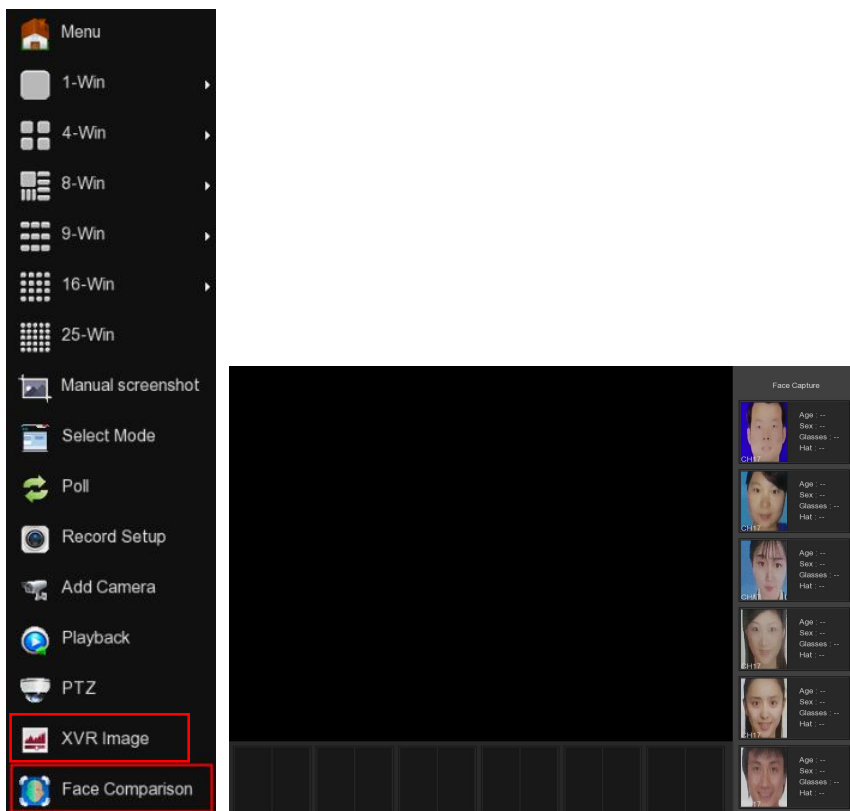


图 5-9

## 5.2 Main Menu

Main Menu includes Playback, Export, HDD, Record, Camera, Configuration, Maintenance and Shutdown, as shown in Figure 5-10 Select one and click the left mouse button to open the corresponding next menu options.



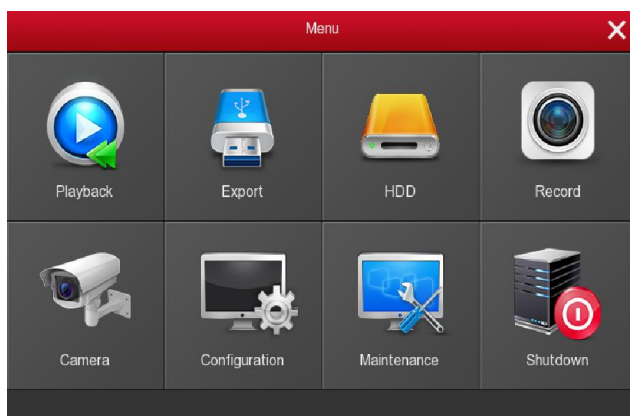


Figure 5-10

## 5.3 Operating

### 5.3.1 Playback

After entering the main menu, open the "Playback" menu or right-click to choose "Playback" menu in the preview interface, switch to video playback interface, shown in Figure 5-11 ① ②.

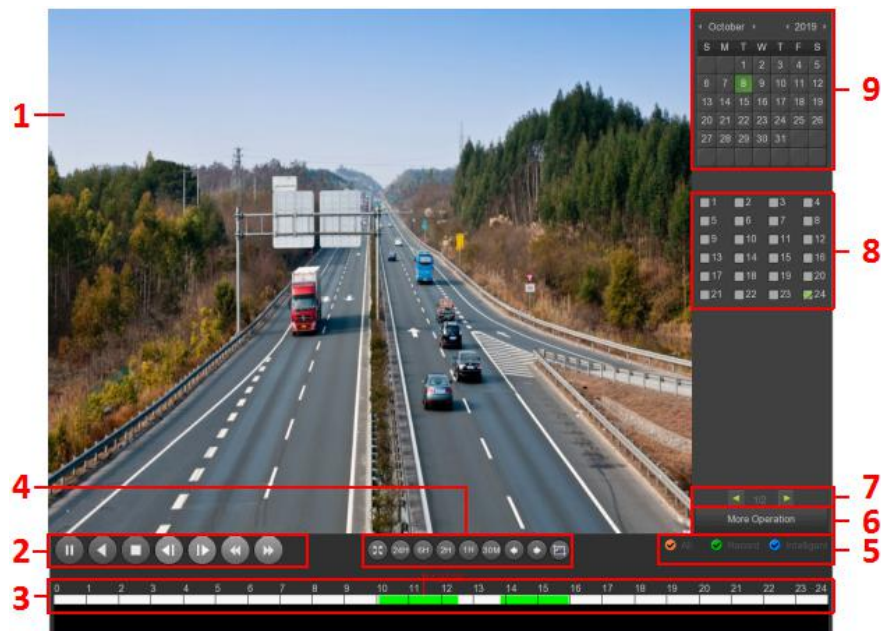


Figure 5-11 ①



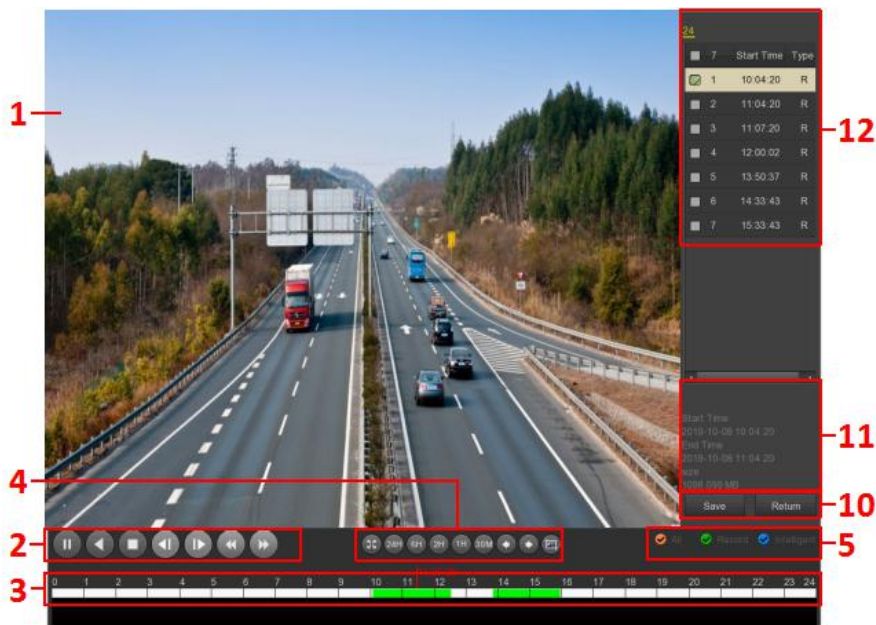








Figure 5-11 ②

No.	Function	Description
1	Display window	Display searched video, according to different systems, support 1,4,8,16 screen playback at the same time, multi-screen playback, double-click a screen, video playback interface into a single screen playback, right-click at this time, return multi-screen playback.
2	Playback control area 1	Playback control keys, from left to right, play/pause, rewind, stop, frame rewind, frame advance, slow release, fast forward (fast forward, fast rewind speed, x2, x4, x8, x16, x1, x1/2, x1/4, x1/8, of which x1 is played at normal speed, and the "slow release" and "fast forward" buttons are continuously clicked to switch the playback speed).
3	Time axis	Shows the recording type under the current conditions and the time period in which it is located. In the four-screen playback mode, four playback time axes corresponding to the selected four



		channels can be displayed. In other single-screen playback modes, only one time axis is displayed. Click on a point in the recording area to start playback from that point in time.
4	Playback control area 2	 : Click full-screen playback, full-screen playback, click the right mouse button to exit 24H, 6H, 2H, 1H, 30M: Time axis unit. If 6H is selected, only 6 hours of video will be displayed on the time axis. You can hold down the left mouse button and drag the time axis left and right. The smaller the time unit, the smaller the time. The greater the proportion.  /  : When the timeline zooms in, click the button and the timeline moves to the left or right in the direction of the arrow.  : Manual Screenshot, select the channel being played, click the icon, screenshot, and select "Export" or "Email", save the screenshot to the U disk or recipient mailbox.
5	Video mode selection area	Select the check box to select the type of recording to be queried, All, Record(normal record, motion, alarm), Intelligent(face detection record and face comparison record).
6	More Operation	Click to enter the video file list interface.
7	Page turning area	 1/2  (if available): XVR channel page turning.



8	Channel	Select the channel number to be queried (multiple channels can be selected at the same time, depending on device performance)
9	Calendar	The green highlighted date means there is file. Otherwise, there is no file. In any play mode, click the date you want to see, you can see the corresponding record file trace in the time bar.
10	Save/Return	Save: On the file list interface, click "Save" to enter the video backup interface. Select the files to be backed up in the 12 file list as needed, and click Save to enter the video backup interface for backup. Return: On the file list interface, click "Back" to exit the file list interface.
11	Video file details	Displays the start time, end time, and file size of the selected file in the 12 file list.
12	Video file list	The channel recording files are displayed in chronological order. You can view the other channel recording files by switching the recording channels above 1, 2, 3, and 4.

Table 5-1

In the file list interface, you can view the start time of the video file, the type of the video file ("R" indicates normal video; "M" indicates motion detection video; "A" indicates alarm video; "I" indicates face detection and face comparison detection), select a video file to view the start time, end time, and file size of the video.



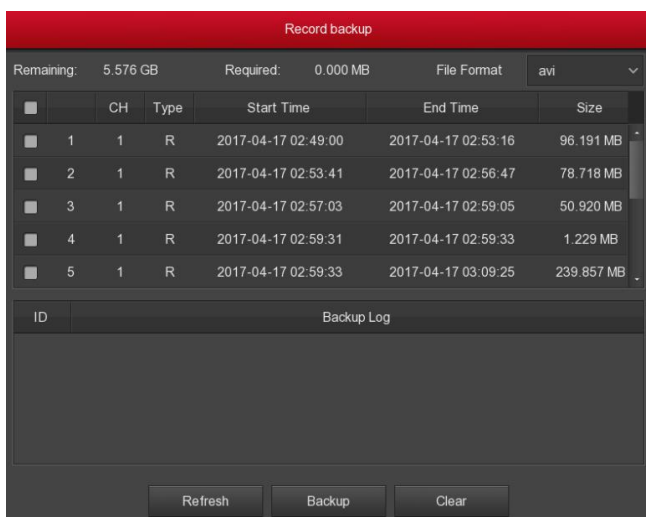


Figure 5-12

In the video backup interface, backup the selected file to an external U disk, backup video file for the avi format. At the same time can choose multiple video files for backup, the user can also in the backup operation menu to cancel the file list box "☐ " icon to cancel file backup.

- **Remaining:** The external capacity of the device U disk capacity space.
- **Required:** Select the total capacity of the backup file.
- **File Format:** Backup video file format.
- **CH:** Video recording channel to which the video file belongs.
- **Type:** video type, with ordinary video and alarm video selection.
- **Start Time / End Time:** The time range of the video file.
- **Refresh:** Refresh the interface, update the data.
- **Backup:** Select the file to be backed up, click Backup, start the backup.
- **Clear:** Clear all the video files in the file list.



### Caution

- In the right-click menu of the preview interface, click the "video playback" menu to enter the video playback interface. ② ①
- Select "Playback" from the context menu of the preview interface, and the channel where the mouse is located will be selected by default.
- The interface shown in Figure 5-11 ① ② is for reference only. The number of channels supported by different models for simultaneous



playback is different and the functions are different. Please refer to the actual interface.

## 5.3.2 File backup

The file backup is used to view and back up the videos and pictures in the device, which consists of normal search and face comparison search.

### 5.3.2.1 Normal search

The normal search is used to retrieve the normal recording, motion detection recording and intelligent recording in the XVR, and the retrieved recording can be backed up to a USB storage device or an FTP server, as shown in Figure 5-13 below:

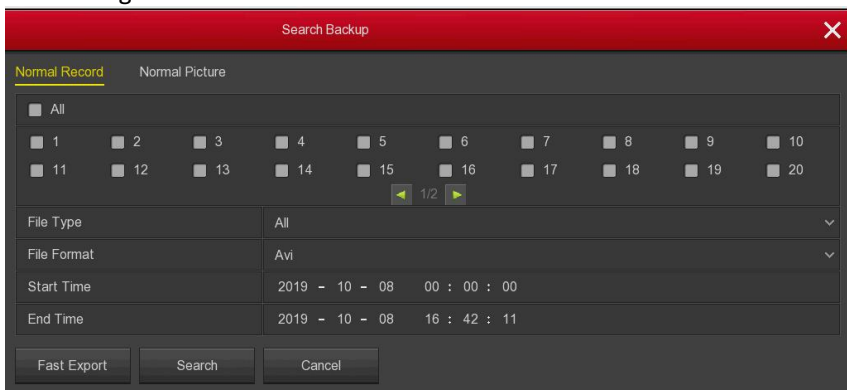


Figure 5-13

**The file backup steps are as follows:**

**Step 1:** Plug the USB storage device into the XVR USB connector before backing up.

**Step 2:** In the main menu, click "File Backup", select the channel, file type and file format, set the search time period (start time and end time), and click "Search".

**Step 3:** Click "Backup", wait for the backup progress to complete, and click "OK" to complete the backup.

**The FTP backup steps are as follows:**

**Step 1:** Set the FTP server in "Menu → configuration → Network → FTP" before backup.

**Step 2:** In the main menu, click "File Backup", select the channel, file type and file format, set the search time period (start time and end time), and click "Search".



**Step 3:** Click "FTP Backup" and the device starts backing up files to the FTP server.

- **File type:** Video type, with All, record, motion, intelligent and alarm selection.
- **Channel:** The channel to which the video file belongs.
- **File Format:** Backup video file format.
- **Start Time / End Time:** The time range of the video file.
- **Fast export:** Search by the selected channel, file type, file format, recording time range less than 30 minutes, and quickly back up the searched files to the storage device.
- **Search:** Searches on the selected channel, recording type, file format, and time range, and displays the searched files in the file list.
- **Required capacity:** Select the total capacity of the backup file.
- **Available/Total capacity:** The external capacity of the device U disk capacity space.
- **Refresh:** Click "Refresh" to search for the video file under the current conditions and display it in the file list.
- **Start:** Click to back up the selected file to the USB flash drive.

■ **Normal Picture**

The regular image is used to retrieve the captured image in XVR, and the retrieved image can be backed up to a USB storage device or FTP server.

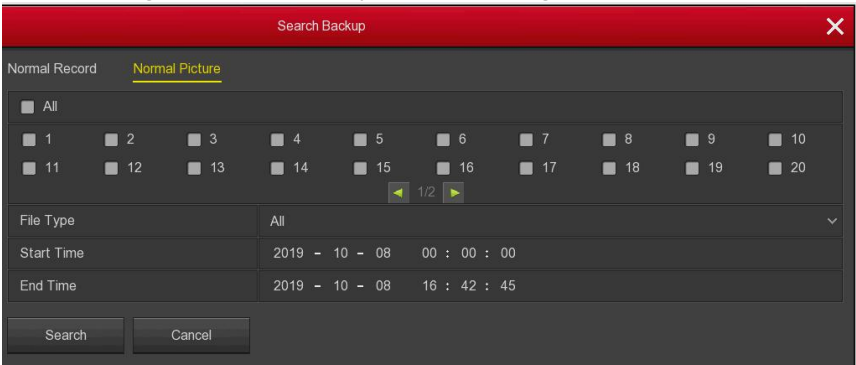


Figure 5-14

**The normal picture backup steps are as follows:**

**Step 1:** Plug the USB storage device into the USB port before backing up.



**Step 2:** In the main menu, click "Export→Normal Search→Normal Picture", select the channel, file type, set the search time period (start time and end time), and click "Search".

**Step 3:** Click "Backup" and the device will start backing up the images to a USB storage device.

- **Channel:** The channel to which the image file belongs.
- **File type:** Picture type, with All, manual capture and motion capture selection.
- **Start Time / End Time:** The time range of the file.
- **Search:** According to set the channel, file type and time range to the corresponding picture file, and displayed in the file list.
- **View:** Click "View". The interface displays the selected file picture.
- **Refresh:** Click "Refresh" to search for the file under the current conditions and display it in the file list.
- **Backup:** Click "Backup" and the device will start backing up the selected files to the USB storage device.

5.3.2.2 Face Comparison Search

The face comparison search function can search the face image according to the event, and can also realize the face search function by the image search, and associate the video playback, and support the backup of the picture and the video. Face comparison search is composed of search by event and search by picture.

■ Search By Event

In the main menu, click "Export→Face Comparison Search" to enter the Search By Event interface, here you can view and backup the smart video and capture pictures, as shown in Figure 5-15:

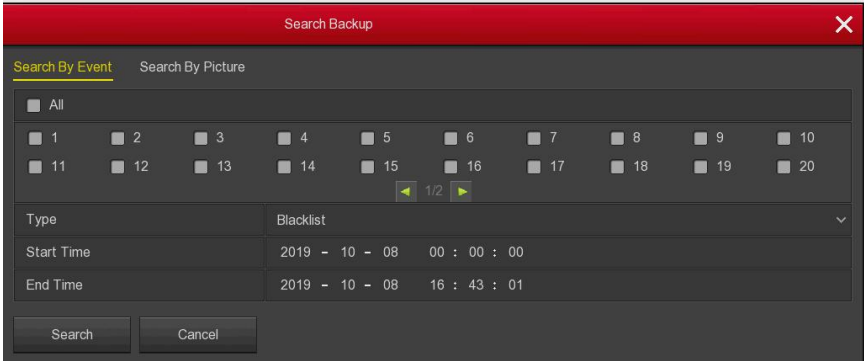





Figure 5-15

**Search steps by event are as follows:**

**Step 1:** Plug the USB storage device into the XVR USB connector before backing up.

**Step 2:** In the main menu, click "Export→Face Comparison Search", select the channel, type, set the search time period (start time and end time), and click "Search".

**Step 3:** Select the picture, click " " on the right side of the interface to view the video for 5 seconds before and after the associated picture, and check "Backup Image" and "Backup Record".

**Step 4:** Click "Backup", wait for the backup progress to complete, and click "OK" to complete the backup.

- **Channel:** The channel to which the file belongs.
- **Type:** There are blacklist, Whitelist, and blacklist And Whitelist options.
- **Start Time / End Time:** The time range of the file.
- **Search:** According to set the channel, type and time range to the corresponding picture file, and displayed in the file list.
- **Figure:** Displays the images searched under the current search conditions as a picture.
- **list:** Display the pictures searched under the current search conditions in a list form, and click the "Play" button to play the picture associated videos.
- **Backup Image:** After checking, the image will be backed up to the USB device during backup.
- **Backup Record:** After checking, the backup related video will be backed up to the USB device during backup.
- **Refresh:** Click "Refresh" to search for the file under the current conditions and display it in the file list.
- **Backup:** Click "Backup" and the device will start backing up the selected files to the USB storage device.

■ **Search By Picture**

In the main menu, select "Export→Face Comparison Search→Search By Picture" to enter the Search By Picture interface. Here you can search for pictures and videos through pictures, and back up the searched pictures and videos, as shown in Figure 5-16. Search by image can search for pictures and corresponding videos by uploading face images locally or by uploading face images in face database.



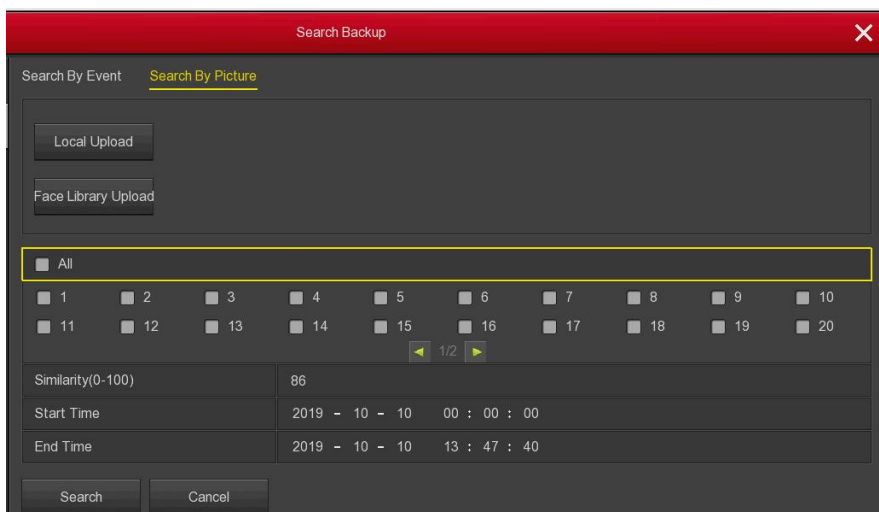


Figure 5-16

**The steps for search by local upload are as follows:**

**Step 1:** Insert the USB device with the face image into the XVR USB interface before searching.

**Step 2:** In the main menu, click "Export→Face Comparison Search→Search by Picture", select "Local Upload", select the picture on the USB device and click "OK".

**Step 3:** Select the channel, set the similarity and time range, and click "Search".

**Step 4:** Select the picture, click "▶" on the right side of the interface to view the video for 5 seconds before and after the associated picture, and check "Backup Image" and "Backup Record".

**Step 5:** Click "Backup", wait for the backup progress to complete, and click "OK" to complete the backup.


**The steps for search by face library upload are as follows:**

**Step 1:** Plug the USB storage device into the XVR USB connector before backing up.

**Step 2:** In the main menu, click "Export→Face Comparison Search→Search by Picture", select "Face Library Upload", click "Face Library→Face picture→OK".

**Step 3:** Select the channel, set the similarity and time range, and click "Search".



**Step 4:** Select the picture, click "" on the right side of the interface to view the video for 5 seconds before and after the associated picture, and check "Backup Image" and "Backup Record".

**Step 5:** Click "Backup", wait for the backup progress to complete, and click "OK" to complete the backup.

- **Local Upload:** Upload the face image to be searched via a USB storage device.
- **Face Library Upload:** Upload the face image to be searched through the local face database.
- **Channel:** Select the search channel..
- **Similarity(0-100):** Set the value similar to the uploaded image. The device searches for related images according to this condition. The higher the similarity value, the stricter the condition, and the fewer the images are searched.
- **Start Time / End Time:** The time range of the search.
- **Search:** According to the uploaded face image, the set similarity, channel and time range are searched for the corresponding picture and displayed in the file chart and list.
- **Figure:** Displays the images searched under the current search conditions as a picture.
- **list:** Display the pictures searched under the current search conditions in a list form, and click the "Play" button to play the picture associated videos.
- **Backup Image:** After checking, the image will be backed up to the USB device during backup.
- **Backup Record:** After checking, the backup related video will be backed up to the USB device during backup.
- **Refresh:** Click "Refresh" to search for the file under the current conditions and display it in the file list.
- **Backup:** Click "Backup" and the device will start backing up the selected files to the USB storage device.

### 5.3.3 HDD

In the Menu interface, click "HDD" to enter the disk management interface. You can see the hard disk information and format the hard disk. As shown in Figure 5-17:



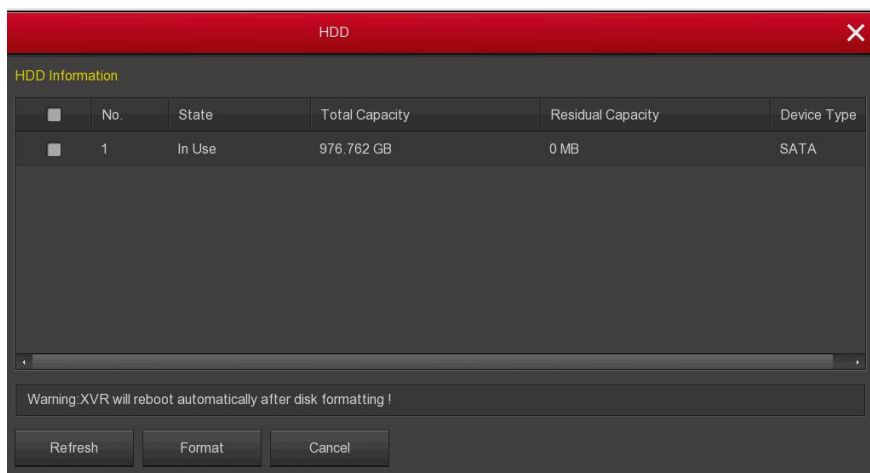


Figure 5-17

- **No.:** The number of HDD that connect the system.
- **State:** Detect the current working status of HDD, you could use only that displays "In use"; after formatting is completed, you need to restart XVR, the status displays "In use".
- **Total Capacity:** The total available HDD capacity, the single HDD capacity can not exceed the maximum capacity: 8TB.
- **Residual Capacity:** Display the residual capacity of the current HDD;
- **Device Type:** SATA.
- **Refresh:** Click update disk list information.
- **Format:** Formatting the HDD, select the HDD → click the "Format" button → click the "Confirm" button.



### Caution

- When the prompt "Not connecting disk" is displayed, the device is not connected to the hard disk, or the device cannot detect the hard disk.
- The hard disk information is displayed on the HDD interface when the hard disk is used normally.
- The hard disk must be formatted first when the hard disk is connected to the XVR for the first time or when "Not formatted" is displayed.
- The device does not need to format the hard disk when the hard disk status shows "In use".
- After formatting the hard disk, restart the XVR to takes effect.

## 5.3.4 Record



5.3.4.1 Schedule

In the main menu, click "Record" to enter the recording setting interface and set the recording plan by drawing method or editing method. After setting the recording schedule, the system will automatically perform the corresponding type of recording according to the set planning time. The recording setting interface is shown in Figure 5-18:

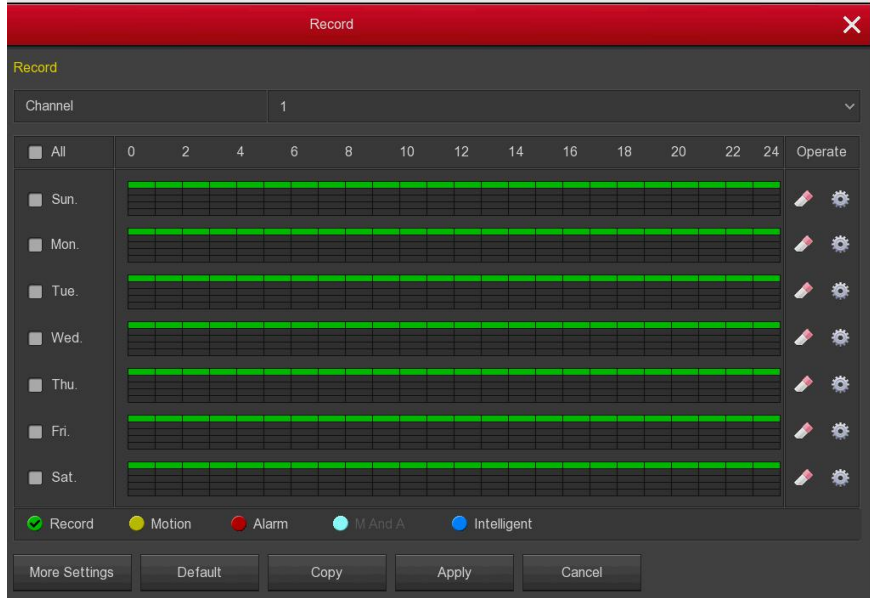




Figure 5-18

- **Channel:** Select the channel for setting the recording to set a different recording schedule for each channel. If you make the same settings for all channels, select "All".
- **Record Type:** Select check the box to select corresponding record type. There are Record, Motion, Alarm, M And A and Intelligent.
- **Week day:** Select the week number. If you select "All", it means to the entire week, or you can select "☐" in front of the number of days to set individual days.
-  : Delete the time period for the currently selected recording type.
-  : Click to enter the Record Schedule.
- **Copy:** After complete the setup, you can click "Copy" button to copy current setup to other channel(s).



## ■ Drawing method configuration recording plan

**Step 1:** Select the recording plan channel to be set (as shown in Figure 5-19 1).

**Step 2:** Select the time (week X) and recording type (Record, Motion, Alarm, M&A, Intelligent) to set the recording schedule.(as shown in Figure 5-19 2).

**Step 3:** Hold down the left mouse button and drag the mouse to draw the time period in the time period diagram (as shown in Figure 5-19 3).

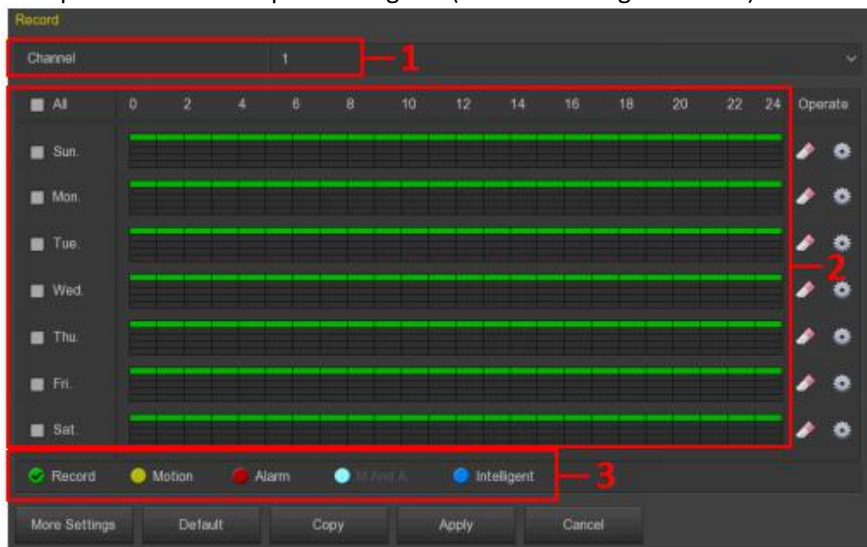



Figure 5-19



### Caution

- There are 6 time periods available for each day, and the device will start the corresponding type of recording within the set time range.
- The minimum unit in the drawing area is 1 hour.
- Check "All" to edit the video 24 hours a day.
- You can check multiple recordings of these days by simultaneously checking multiple "Week X".
- The type of recording that XVR does not support at the moment is "M&A".

## ■ Input data to set the schedule record

**Step 1:** Click “” to enter the Record Schedule interface, as shown in Figure 5-20.



- Step 2:** Select the "recording type" for each time period. Select the week of "Use to" and apply to the corresponding week.
- Step 3:** Click "Save" to save the settings.

Record Schedule

Current Set Week: Sunday

Schedule 1	<input checked="" type="checkbox"/> Record	<input checked="" type="checkbox"/> Motion	<input checked="" type="checkbox"/> Alarm	<input type="checkbox"/> M & A	<input checked="" type="checkbox"/> Intelligent	00 : 00 - 24 : 00
Schedule 2	<input type="checkbox"/> Record	<input type="checkbox"/> Motion	<input type="checkbox"/> Alarm	<input type="checkbox"/> M & A	<input type="checkbox"/> Intelligent	00 : 00 - 00 : 00
Schedule 3	<input type="checkbox"/> Record	<input type="checkbox"/> Motion	<input type="checkbox"/> Alarm	<input type="checkbox"/> M & A	<input type="checkbox"/> Intelligent	00 : 00 - 00 : 00
Schedule 4	<input type="checkbox"/> Record	<input type="checkbox"/> Motion	<input type="checkbox"/> Alarm	<input type="checkbox"/> M & A	<input type="checkbox"/> Intelligent	00 : 00 - 00 : 00
Schedule 5	<input type="checkbox"/> Record	<input type="checkbox"/> Motion	<input type="checkbox"/> Alarm	<input type="checkbox"/> M & A	<input type="checkbox"/> Intelligent	00 : 00 - 00 : 00
Schedule 6	<input type="checkbox"/> Record	<input type="checkbox"/> Motion	<input type="checkbox"/> Alarm	<input type="checkbox"/> M & A	<input type="checkbox"/> Intelligent	00 : 00 - 00 : 00

Use To:

☐ All
 ☒ Sun.
 ☐ Mon.
 ☐ Tue.
 ☐ Wed.
 ☐ Thu.
 ☐ Fri.
 ☐ Sat.

Figure 5-20



Caution

- At the same time, normal recording and motion detection recording are motion detection recording are enabled at the same time. When motion detection occurs, the device only has motion detection recording and no ordinary recording.

5.3.4.2 Parameters

According to the actual network bandwidth, set the video stream parameters, including the encoding type, resolution, and so on.

- Step 1:** In the Menu interface click "Record→Parameters" to enter the Encoding parameters interface, as shown in Figure 5-21.
- Step 2:** Select the channel and set the video primary substream parameters including resolution, stream type, frame rate, and so on.
- Step 3:** Click "Apply" to save the settings.



Record		
Encode Parameters		
Channel	1	
Preview information	NO VIDEO	
Encode level	Main Profile	
H265+	Disable	
	Main Stream	Sub Stream
Encode mode	A/V	A/V
Encode Type	H265	CIF
Resolution	3MP	CIF
Stream control	VBR	CBR
I-Frame interval	2	2
Quality	Good	Good
Frame Rate	6	6
Bitrate(Kb/S)	986	96
Watermark Enable	Disable	
Watermark String	CAMERA01	
<input type="button" value="Default"/> <input type="button" value="Copy"/> <input type="button" value="Apply"/> <input type="button" value="Cancel"/>		

Figure 5-21

- **Channel:** Select the channel.
- **Preview information:** Show video preview information.
- **Encode Level:** For analog channels, there are three options for high, medium and low.
- **H265+/H.264 +:** Turn on/off H.265+/ H.264 +.
- **Encode Mode:** For analog channels, there are Video (video streaming) and A/V (audio/video streaming) options.
- **Encode Type:** Standard H.264/H.265.
- **Resolution:** Read and set the master and slave stream resolution here, you can select from the dropdown list. Please note the option may vary depending on the connection to the different series camera.
- **Stream Control:** When connecting an analog camera, set the variable code stream of the camera with variable and fixed options.
- **I-Frame Interval:** Set the key frame interval by dragging the scroll bar.
- **Quality:** When connecting an analog camera, set the camera quality, there are lowest, low, ordinary, good, better, the best option.
- **Frame Rate:** Set the camera frame rate to 1 frames / sec-25 frames / sec.



- **BitRate (Kb/S):** Setting bit rate can change the picture quality, the larger the bit rate and the better the picture quality.
- **Refer Bitrate (Kb/S):** Shows the bit rate range of the main and sub code streams.
- **Copy:** Copy the channel parameter settings to other channel.

## 5.3.5 Camera

### 5.3.5.1 Add Camera

#### ■ Add Camera

The XVR add device is used to add a network camera, and the interface only displays the IP channel. After adding a network device, you can view the video screen of the network device directly on the XVR, and perform operations such as storage and management. Different devices support different numbers of network devices. You can add required network devices based on actual conditions. Add the device as follows:

**Step 1:** In the Menu interface, click "Camera → Add Camera", or right-click in preview interface and select "Add Camera" to enter the Add Camera interface, as shown in Figure 5-22 ①.

**Step2:** Click "Add → select device to Add → Add →select channel to add→ Save", complete to add device.



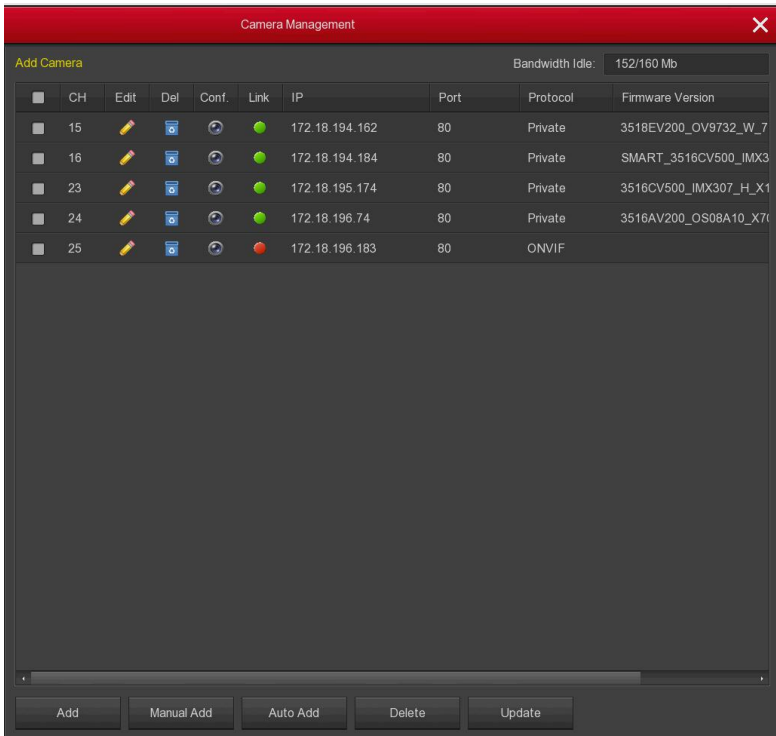


Figure 5-22 ①

- **Bandwidth idle:** Real-time display XVR remaining bandwidth.
- **Add:** Click to enter the "Device Search" interface, as shown in Figure 5-22 ②.



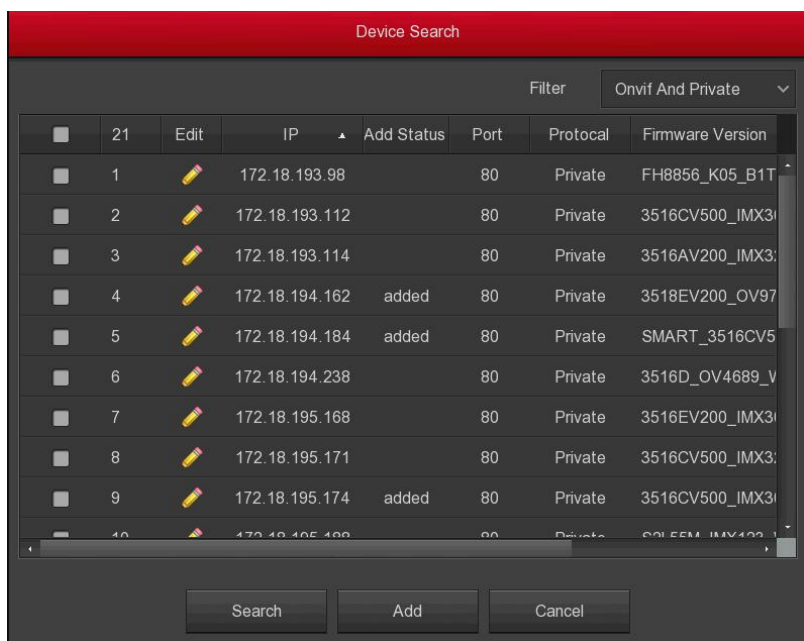


Figure5-22 ②

- ✓ **Filter:** Filter search device type. On the Add Device interface, the XVR automatically searches for all devices in the LAN that comply with the Onvif and Private protocol. Select the protocol or network segment device according to the need to display the filter location. Click "Search" to search for the corresponding device in the LAN.
- ✓ **Search:** Click it to search IP address. It includes device IP address, port, and protocol.
- ✓ **Sorting:** Click "IP" in the search list menu bar, the system displays "IP" from small to large will search the device to sort. Click "IP" again and the system displays the order of the IP addresses from big to small.
- ✓ **Add:** Add a selection device to the system.
- ✓ **Select channel:** After selecting the device to search for, click Add to enter the channel selection interface, as shown in Figure 5-22 ③. Configure the channel for the selected device and click "Save" to finish adding the device.



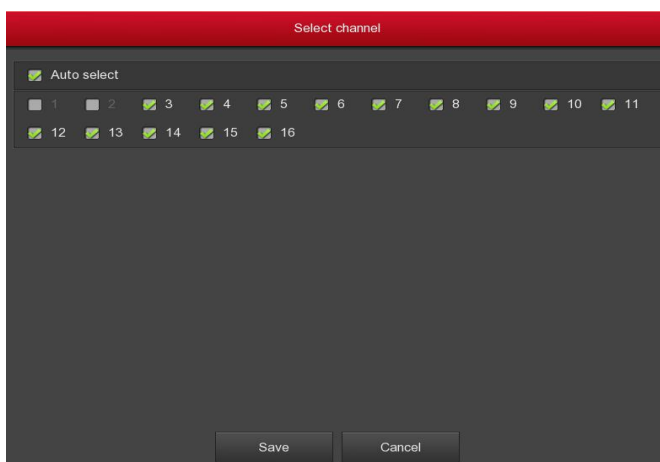









Figure 5-22 ③

- **Manual add:** Click to enter the “Channel Setup” interface. You can close the channel, switch channels, modify the protocol, switch the preview stream or manually input the device related information to add the device, as shown in Figure 5-23.

Enable	<input type="checkbox"/>
Channel	CH17
Protocol	Private
Preview	Sub
User Name	admin
Password	*****
IP	<input checked="" type="checkbox"/> 172 • 18 • 197 • 60
Domain	<input type="checkbox"/>
Port	80

Figure 5-23




- ✓ **Enable:** The channel enable on/off, defaulting to be off. Tick "Enable" then the related channels can be previewed and recorded normally.
- ✓ **Channel:** Enter the channel number to connect to the IPC device as needed.
- ✓ **Protocol:** Select Add Device Protocol with Onvif, Private, and RTSP options.
- ✓ **Preview:** The default is sub-stream preview, which is not settable.
- ✓ **User name:** The login user name of IPC (if the defaulted user name is not admin, please change it to be valid user name).
- ✓ **Password:** Login password of IPC (if the defaulted login password is not admin, please change it to be valid password).
- ✓ **IP:** Need to add IPC IP address.
- ✓ **Domain:** Select Domain Name to add the device and enter the domain address of the IPC, such as the peanut shell address and DDNS address.
- ✓ **Port:** Access to the port used by IPC, the default is 80.
- **Auto add:** Click to reconfigure all online IPCs in the LAN to automatically add to the XVR.
- **Delete:** Delete the added device. In the list of added devices, click the  icon to delete the channel to add the device directly. You can also click the  icon to select multiple devices and click the "Delete" button to delete all selected devices.
- **Update:** Insert the U disk that stores the upgrade file into the XVR, select one or more IPCs of the same type and whose status is "", click "Upgrade", and select the upgrade file to upgrade.
- **Link:** "" indicates that the connection is successful, and "" indicates that the connection fails. If the connection fails, the connection status will indicate the cause of the failure. If the password is incorrect, the user password will be incorrect.
- **Conf.:** Configuration. Click "" icon to enter the "Parameters" interface, you can modify the encoding type, resolution, bit rate, frame rate and other coding-related information.
- **Edit:** Click the "" icon to enter the channel setup interface. The function is the same as "Manually add".



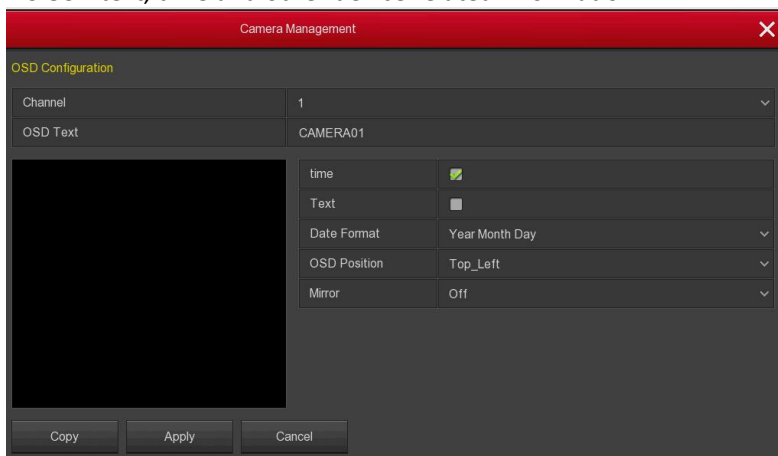




## Notice

- When no device channel can be added to the device interface, click "Menu→Configuration→Channel config" to enter the channel configuration interface. Set the channel to "IP" as required, and click "Apply→Confirm" to restart the system. Successfully set to IP channel, you can return to the Add Camera interface to add IP devices to the channel.
- If network devices have been added to all digital channels, add them again and the device will prompt that the add fails.
- Click "Auto add", all devices will be reassigned IP address, please use with caution.
- Before using the upgrade function, copy the upgrade package corresponding to the device to be upgraded to the USB flash drive and insert the USB flash drive into the XVR.
- When you upgrade multiple IP devices, you can only select the same IP device. During the upgrade, all IP devices cannot be powered off. Otherwise, the upgrade fails or the device cannot start.
- The XVR upgrade feature only supports upgrades that have been added and the device status is "  ".

### 5.3.5.2 OSD

On the menu page, choose "Camera → OSD" Settings to enter the OSD management interface, as shown in Figure 5-24. Here you can get and set the IPC OSD text, time and other device related information.



OSD Configuration	
Channel	1
OSD Text	CAMERA01
time	
Text	
Date Format	Year Month Day
OSD Position	Top_Left
Mirror	Off

Copy Apply Cancel

Figure 5-24



- **Channel:** Select a configuration channel.
- **OSD Text:** Displays the OSD text information obtained to the IPC.
- **Time:** Turn on / off the IPC display interface time information.
- **Text:** Turn on / off the IPC display interface text message.
- **Date format:** Set the IPC display interface date format, drop-down menu "Year Month Day", "Month Day Year", "Day Month Year" option.
- **OSD position:** Set the time and OSD text location, drop-down menu with the "Top\_ left, Bottom\_ left" options.
- **Mirror:** Set the IPC mirror to flip the direction, drop-down menu with "Off, Horizontal, Vertical, Both" options.



### Caution

- The current OSD function only supports the private protocol to add the device to obtain and set.

### 5.3.5.3 Image

On the menu page, select "Camera→ Image" to enter the XVR image color setting interface. You can view and set the brightness, contrast, saturation, and sharpness values of the IPC channel, as shown in Figure 5-25:

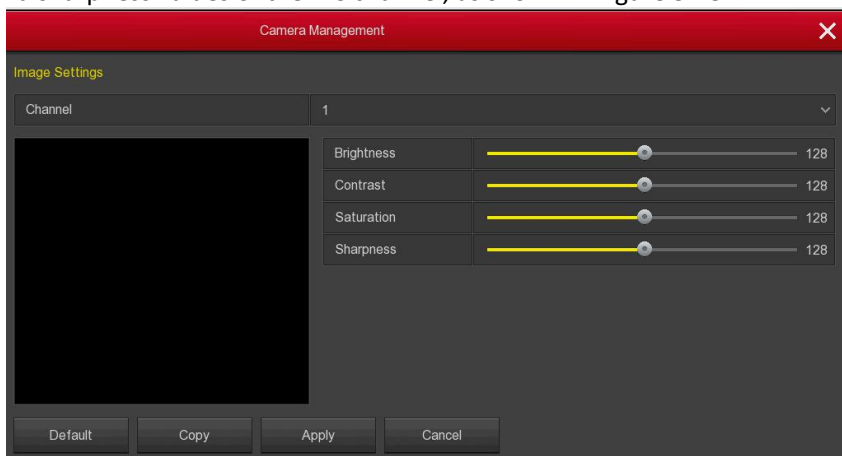


Figure 5-25

- **Channel:** Users can type in the channel number that needs to be connected to the remote device according to their needs.
- **Brightness:** Gets and sets the brightness of the IPC.
- **Contrast:** Gets and sets the contrast of the IPC.
- **Saturation:** Gets and sets the saturation of the IPC.
- **Sharpness:** Gets and sets the sharpness of the IPC.



### 5.3.5.4 Motion

Motion detection uses computer vision and image processing techniques to analyze the video images to see if there are enough changes in the images. When the moving target appears on the monitoring screen and the moving speed reaches the preset sensitivity, the system performs an alarm linkage action.

**Step 1:** On the menu page, select "Camera → Motion" to enter the motion detection interface, as shown in Figure 5-26 below.

**Step 2:** Turn on motion detection, set area, sensitivity, turn on motion detection alarm, set processing mode, arming time and other parameters.

**Step 3:** Click "Apply" to save the settings.

The screenshot shows the 'Camera Management' window with a red title bar. Inside, the 'Motion Detection' section is highlighted in yellow. It contains a table with settings for Channel, Sensitivity, Enable Detection, Processing Method, Week, Time Period 1, and Time Period 2. At the bottom are buttons for Default, Copy, Apply, and Cancel.

Channel	1	Set Area
Sensitivity	Middle	▼
Enable Detection	<input type="checkbox"/>	
Processing Method		
Week	Tues	▼
Time Period 1	<input checked="" type="checkbox"/> 00 : 00 - 24 : 00	
Time Period 2	<input type="checkbox"/> 00 : 00 - 00 : 00	

Default Copy Apply Cancel

Figure 5-26

- **Channel:** Select the channel.
- **Set Area:** Click to enter the regional settings interface, hold down the left mouse button to select the alarm area, select, the alarm area is gray, select the gray again to cancel the alarm area settings.
- **Sensitivity:** Select the appropriate sensitivity (Highest, Higher, High, Middle, Low, Lower, and Lowest) according to your needs. The default is "Middle" with a total of 7 sensitivity.
- **Enable Detection:** Check "☐" to turn on / off motion detection alarm.
- **Processing Method:** The device can set the corresponding linkage alarm when the motion detection triggers the alarm. It can set the Buzzer Alarm, Buzzer Time(sec), Send E-Mail, Linkage, Channel Recording, Record Time (sec) and Alarm Output.
  - ✓ **Buzzer Alarm:** Check "☐" to trigger the alarm and the device buzzer sounds.



- ✓ **Buzzer Time(sec):** Set the duration of the buzzer sound each time the alarm is triggered. The default is 5 seconds, and the range is set to 1-120 seconds.
- ✓ **Send E-Mail:** Check "☐" to trigger the alarm, XVR sends an email to the set mailbox to notify the user.
- ✓ **Linkage:** When "☐" is checked and the motion detection alarm is triggered, the XVR alarm channel is switched to single screen preview 10S.
- ✓ **Channel Recording :** Check "☐" to turn on / off the channel recording function.
- ✓ **Record time (sec):** Set the duration of each recording when the alarm is triggered.
- ✓ **Alarm Output:** When "☐" is selected, each time an alarm is triggered, the corresponding alarm output port sends a signal to trigger an alarm (such as a light, siren, etc.) that is externally connected to the XVR.
- **Week (Time period1 / Time period2):** The arming period, select the day of the week, set the time period 1&2, the device will only send mail to the recipient's mailbox within the set time range.
- **Copy:** After the channel has been set up, click Copy to apply the setting to another channel.



### Caution

- After setting motion detection to open email notification, click "Main Menu → Configuration → Network → Email" to enter the email setup interface to set up the email. When the system sends a linkage alarm within the set time period, the recipient receives the alarm e-mail.

### 5.3.5.5 Video loss

Turn on the video loss function. When there is a channel losing video signal, the device will alarm and notify the user. The specific steps are as follows:

**Step 1:** On the menu page, select "Camera → Video loss" to enter the video loss setup interface is displayed, as shown in Figure 5-27.





Figure 5-27

**Step 2:** Select the channel and check "Enable ☐ " to turn on video loss alarm.

**Step 3:** Check the corresponding prompts such as the Screen Display, send E-mail, Buzzer Alarm and Alarm Output as needed.

**Step 4:** Click "Apply" to save your settings.

- **Channel:** Select the channel.
- **Enable:** Check "☐ " to turn on / off video loss alarm.
- **Screen display:** Check "☐ " to turn on / off the device when the screen is displayed.
- **Send e-mail:** Check "☐ " to turn on / off when the device alerts the mail function.
- **Buzzer alarm:** Check "☐ " to turn on / off the device when the buzzer sounds.



#### Note

- The current video loss function only supports the acquisition and setup of added analog devices.

### 5.3.5.6 PTZ

On PTZ consists of PTZ and PTZ setup.

#### ■ PTZ

The PTZ is used to set the dome or pan/tilt parameters of the network channel. In the main menu, click "Camera→PTZ" to enter the PTZ interface, as shown in Figure 5-28.



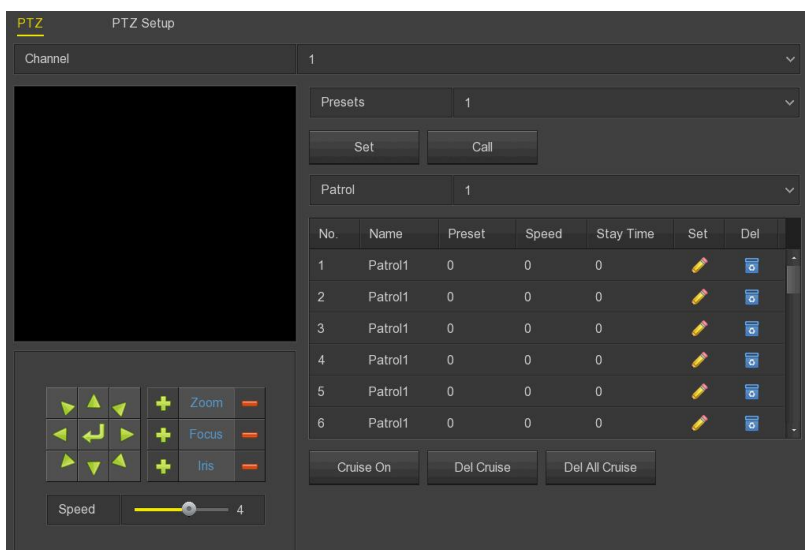


Figure 5-28

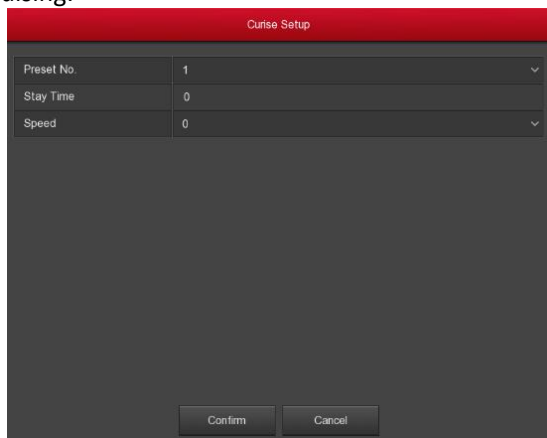
PTZ setup interface is used to set the PTZ direction, speed and lens zoom, focus and aperture settings and cruise settings shortcut button.

- **Channel:** Select the channel where the dome camera is connected to the XVR.
- **Zoom:** Adjust the camera magnification by / key, long-range / wide-angle function.
- **Focus:** Use the / key, zoom in/out function, adjust the camera to focus.
- **Iris:** Use the / key, zoom in / out the aperture function, adjust the aperture of the camera.
- **Speed:** It is mainly used to set the pan/tilt rotation speed operation. For example, the rotation speed in step 7 is much greater than the rotation speed in step size 1.
- **Preset setting:**
  - Step 1:** Use the pan/tilt direction button to move the video to where you want to set the preset.
  - Step 2:** Click the "Set" button below the preset point to complete the configuration.
- **Cruise setting:**
  - Step 1:** Select the cruise line and click the " " button .



**Step 2:** Select the preset NO., Stay Time (seconds) and Speed in the "Cruise Setup" interface, as Shown in Figure 5-29.

**Step 3:** Click "Confirm→Cruise on" to save the settings and make the device start cruising.



Cruise Setup	
Preset No.	1
Stay Time	0
Speed	0

Confirm Cancel

Figure 5-29

- ✓ **Preset No.:** Select preset points.
- ✓ **Stay Time:** Stay time on the Preset.
- ✓ **Speed:** Speed for Cruise.
- **Del cruise:** Select the cruise line, click to "del cruise", and complete the cruise line to remove.
- **Del all cruise:** After clicking, delete all the set cruise lines.



#### Caution

- The maximum number of presets is related to the PTZ protocol and front-end dome/PTZ support, but no more than 255.

## ■ PTZ Setup

The pan/tilt setting is used to set the dome or pan/tilt parameters of the analog channel. Before controlling the dome or pan/tilt, please make sure that the RS-485 control cable between the PTZ decoder and the XVR is properly connected, and configure the PTZ decoder parameters in the device.

**The steps are as follows:**

**Step 1:** On the menu page, select "Camera →PTZ Setup " to enter the PTZ Setup interface, as shown in Figure 5-30 below.

**Step 2:** Set the pan/tilt parameters of the channel (camera protocol, address, baud rate, data bit, stop bit, check, etc.).



**Step 3:** Click "Apply" to save the configuration.

PTZ Setup	
Channel	1
Protocol	UTC-B
Address	0
Baud Rate	2400
Data Bit	8
Stop Bit	1
Check	NONE

Default Copy Apply Cancel

Figure 5-30

- **Channel:** Select to access the camera channel with pan/tilt function.
- **Protocol:** Select the PTZ protocol for the access device brand model (eg PelcoD).
- **Address:** Set the address to access the PTZ. The default is 0.
- **Baud Rate:** Select the baud rate used to access the PTZ to control the PTZ and camera of the corresponding channel. The default is 2400.
- **Data Bit:** The default value is 8.
- **Stop Bit:** The default value is 1.
- **Check:** The default value is NONE.
- **Copy:** After the channel is set up, click "Copy" to apply the setting to another channel.

**5.3.5.8 Privacy Mask**

The privacy masking feature blocks some sensitive or privacy-related areas of the surveillance live image. Privacy occlusion is divided into Privacy Mask and Local Privacy Mask.

■ **Privacy Mask**

Privacy Mask is used to set the video occlusion of the video source. The steps are as follows:

**Step 1:** On the menu page, click "Camera → Privacy Mask" to enter the Privacy Mask interface, as shown in Figure 5-31.



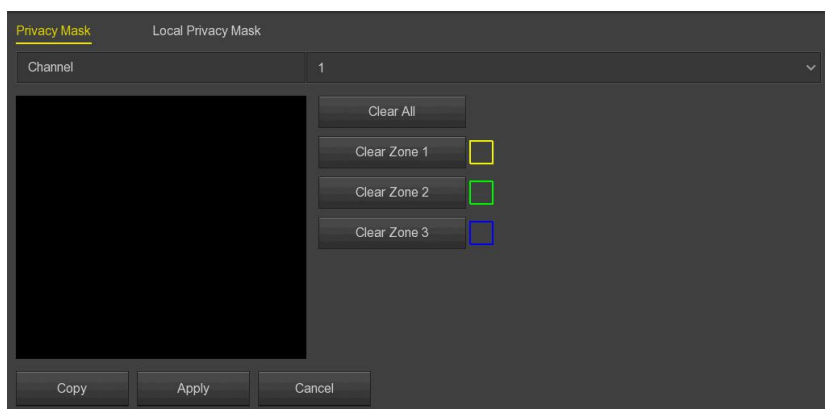


Figure 5-31

**Step 2:** Select the channel you want to block video.

**Step 3:** Use the mouse to define the occlusion area in the live video.

**Step 4:** Click "Apply" to save the configuration.

- **Channel:** Select the channel.
- **Privacy zone selection:** In the left side of the interface video window, hold down the left mouse button to select the area to be blocked.
- **Clear all:** Clear all selected occlusion areas.
- **Clear Zone 1,2,3:** Clear the selected masked areas 1, 2, 3.

## ■ Local Privacy Mask

Local Privacy Mask is used to occlude the preview video of each channel on the XVR local side. The steps are as follows:

**Step 1:** On the menu page, click "Camera → Privacy Mask → Local Privacy Mask" to enter the Local Privacy Mask interface, as shown in Figure 5-32.



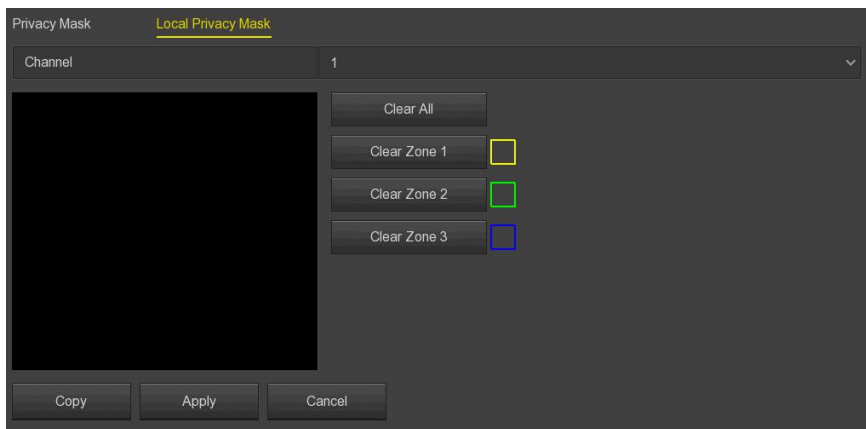


Figure 5-32

**Step 2:** Select the channel you want to block video.

**Step 3:** Use the mouse to define the occlusion area in the live video.

**Step 4:** Click "Apply" to save the configuration.

- **Channel:** Select the channel.
- **Privacy zone selection:** In the left side of the interface video window, hold down the left mouse button to select the area to be blocked.
- **Clear all:** Clear all selected occlusion areas.
- **Clear Zone 1,2,3:** Clear the selected masked areas 1, 2, 3.



#### Caution

- After the channel is set to privacy mask, the video of the channel is previewed and recorded to show the occluded video.
- After the channel is set to local privacy mask, the channel is only occluded when previewing the video on the XVR side.

#### 5.3.5.8 Channel Name

Customize the channel name corresponding to the added device.

**The steps are as follows:**

**Step 1:** On the menu page, select "Camera→ Channel Name" to enter the Channel Name interface, as shown in Figure 5-33.

**Step 2:** Set the channel name.

**Step 3:** Click "Apply" to save the configuration.



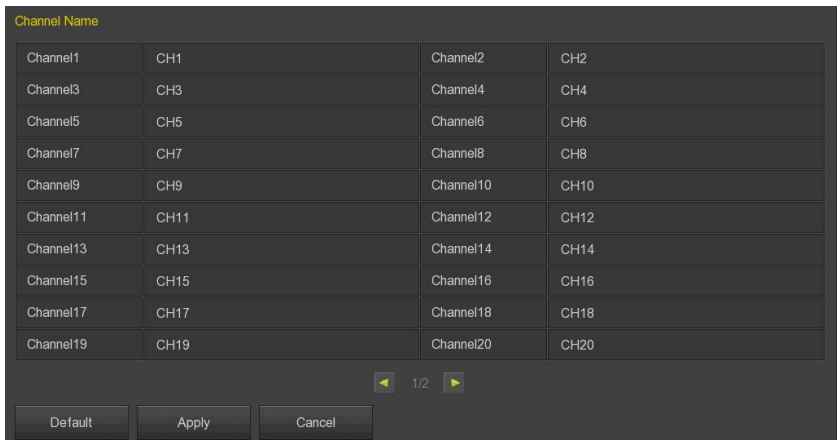


Figure 5-33

- **Channel:** Click on the right side of the channel corresponding to CHx, pop-up keyboard, set the channel name.

#### 5.3.5.9 Intelligent Detection

Intelligent detection is used to set the humanoid detection. When the device detects that the human body appears in the channel, it will make a corresponding alarm.

**The steps are as follows:**

**Step 1:** On the menu page, select "Camera→ Intelligent Detection" to enter the Humanoid Detection interface, as shown in Figure 5-34.

**Step 2:** Select the channel and check "Enable → Buzzer Alarm → Send E-mail → Sign Positioning" according to actual needs to set the sensitivity and arming time.

**Step 3:** Click "Apply" to save the configuration.



Humanoid Detection

Channel	1	
Enable	<input checked="" type="checkbox"/>	
Buzzer Alarm	<input checked="" type="checkbox"/>	
Send E-mail	<input type="checkbox"/>	
Sign Positioning	<input checked="" type="checkbox"/>	
Head Enable	<input checked="" type="checkbox"/>	
Sensitivity	Middle	
Week	Tues	
Time Period 1	<input checked="" type="checkbox"/>	00 : 00 - 24 : 00
Time Period 2	<input type="checkbox"/>	00 : 00 - 00 : 00

Default Copy Apply Cancel

Figure 5-34

- **Channel:** Select the channel.
- **Enable:** Check "☐" to turn on/off the humanoid detection function.
- **Buzzer Alarm:** Check "☐" to trigger the alarm and the device buzzer sounds.
- **Send E-mail:** Check "☐" to trigger the alarm, XVR sends an email to the set mailbox to notify the user.
- **Sign Positioning:** If "☐" is selected, the device will face the face mark with a red frame when the device detects a face. When the face moves, the red frame also moves to keep the face framed.
- **Head Enable:** Check "☐", the device will make a linkage alarm when the device detects a human face.
- **Sensitivity:** Select the appropriate sensitivity (Highest, Higher, High, Middle, Low, Lower, and Lowest) according to your needs. The default is "Middle" with a total of 7 sensitivity.
- **Week (Time Period 1 / Time Period 2):** The arming period, select the day of the week, set the time period 1&2, the device will only send mail to the recipient's mailbox within the set time range.
- **Copy:** After the channel has been set up, click Copy to apply the setting to another channel.

### 5.3.5.10 Face Comparison

The face comparison consists of Face Comparison and Face Database. It is used to detect face comparison. When the setting channel appears to set the face in the face database, the corresponding alarm is triggered.



## ■ Face Comparison

The steps are as follows:

**Step 1:** In the main menu, click "Camera → Face Comparison" to enter the face comparison interface, as shown in Figure 5-35.

**Step 2:** Select the channel, check "Enable", set the alarm processing mode (buzzer alarm, send e-mail, alarm output) as needed, and select the face database name.

**Step 3:** Click "Apply" to save the configuration.

Library Name	Mode Selection	Similarity	Edit
3	Blacklist	86	
1	Blacklist	86	
123	Whitelist	86	
test	Blacklist	70	

Figure 5-35

- ✓ **Channel:** Select the channel.
- ✓ **Enabled:** Check "☐" to turn on / off face comparison function.
- ✓ **Processing Method:** When the device triggers an alarm on the channel, it will make a corresponding linkage alarm. It can set the Buzzer Alarm, Send E-Mail and Alarm Output.
  - ✓ **Buzzer Alarm:** Check "☐" to trigger the alarm and the device buzzer sounds.
  - ✓ **Send E-Mail:** Check "☐" to trigger the alarm, XVR sends an email to the set mailbox to notify the user.
  - ✓ **Alarm Output:** When "☐" is selected, each time an alarm is triggered, the corresponding alarm output port sends a signal to trigger an alarm (such as a light, siren, etc.) that is externally connected to the XVR.



- **Face database list:** Used to display and configure all face libraries of the current device..
- **Library Name:** Display the name of the face database.
- **Mode Selection:** Displays the type of face database, blacklist or whitelist.
- **Similarity:** The device recognizes the similarity between the face and the face database face. When the device recognition similarity value is greater than or equal to the value, the device captures the face and displays the comparison result.
- **Edit:** Used to set the similarity and mode of the corresponding face database. After setting, click "OK" to save the configuration. The higher the similarity value, the more the captured face image and the face database face are, the more accurately the face library face can be recognized, but the displayed comparison result is less.

## ■ Face Database

The face database is used to store face images and exists in the form of multiple face databases, which implements the functions of adding, deleting, editing face database and face database. The face database interface is shown in Figure 5-36.

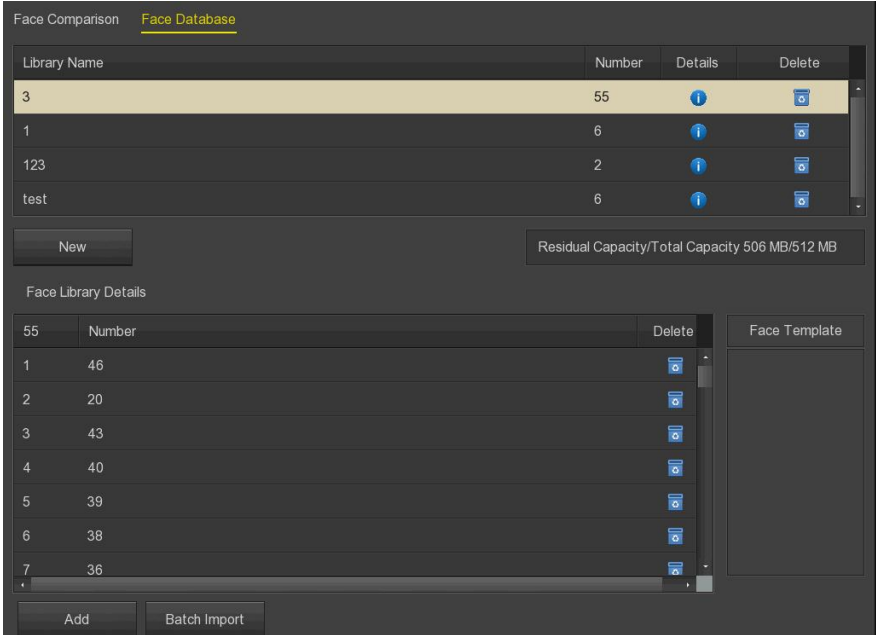




Figure 5-36

➤ **Add face database**


**Step 1:** In the main menu, click "Camera → Face Comparison → Face Database" to enter the face database interface, as shown in Figure 5-36.

**Step 2:** Click "New" to input the new database name.

**Step 3:** Click "Save".


➤ **Delete the face database**

**Step 1:** In the main menu, click "Camera → Face Comparison → Face Database" to enter the face database interface.

**Step 2:** Select the face library name in the list and click "".

➤ **View face database**

**Step 1:** In the main menu, click "Camera → Face Comparison → Face Database" to enter the face database interface.

**Step 2:** Select the face library and click " " to view all the picture numbers of the face database. The face template display selects the picture content.

➤ **Add face to face library**

✓ **Single image import**

Single image import means uploading one image to the face database each time, and there are two ways to import local image and taking real-time video picture.

◆ **Local image import steps:**

**Step 1:** Insert the USB flash drive that stores the picture into the device.

**Step 2:** In the main menu, click "Camera → Face Comparison → Face Database" to enter the face database interface.

**Step 3:** Click "Add → Local Image" as shown in Figure 5-37.



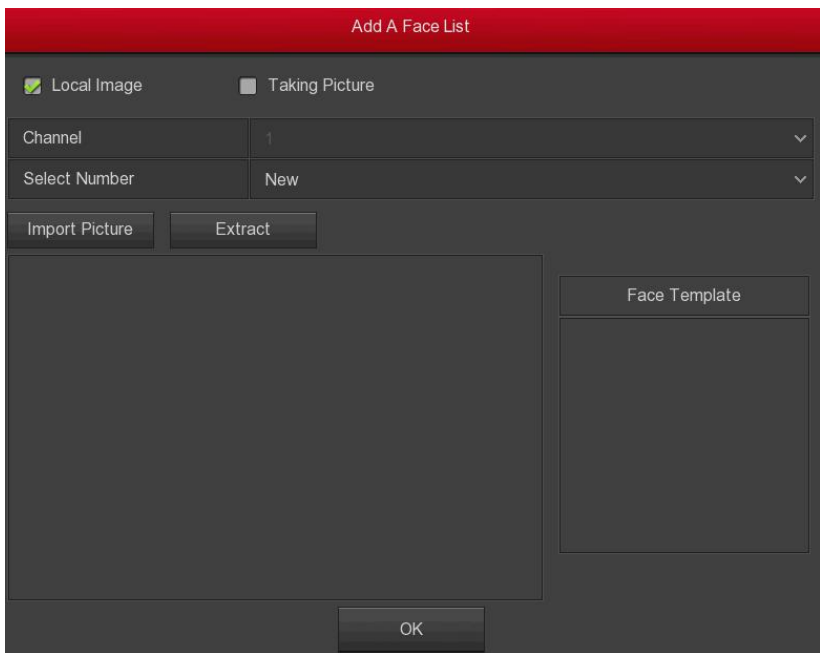


Figure 5-37

**Step 4:** Click "Import" and select the upload picture as shown in Figure 5-38.

**Step 5:** Click "OK → Extract → OK".



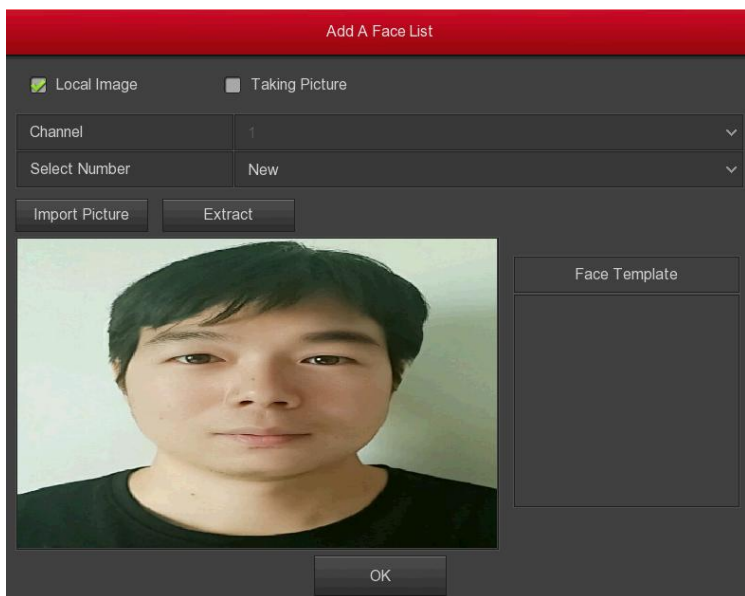


Figure 5-38

◆ **Taking picture import steps:**

**Step 1:** In the main menu, click "Camera → Face Comparison → Face Database" to enter the face database interface.

**Step 2:** Click "Add → Taking picture".

**Step 3:** Select the channel and number → Shooting " as shown in Figure 5-39.

**Step 4:** Click "Extract → OK".



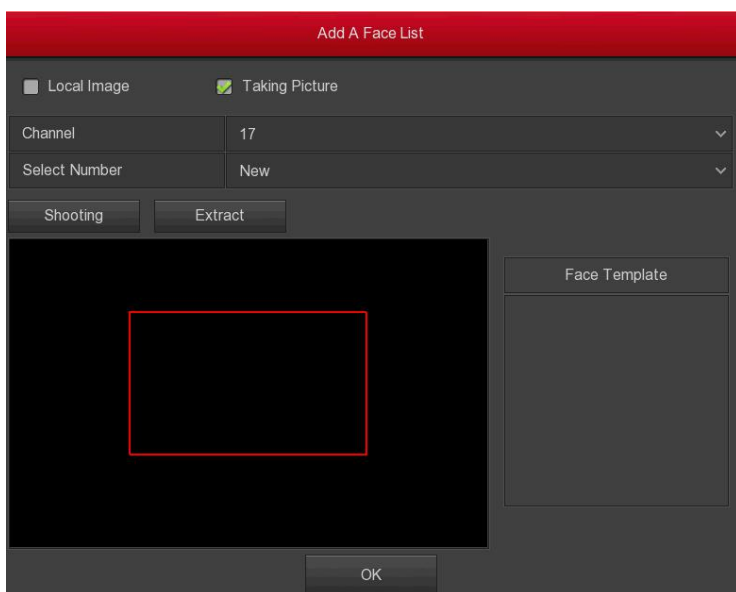


Figure 5-39

✓ **Batch image import**

Batch image import means uploading multiple images to the face database each time.

**Step 1:** Insert the USB flash drive that stores the picture into the device.


**Step 2: On**

**Step 2:**

In the main menu, click "Camera → Face Comparison → Face Database" to enter the face database interface.

**Step 3:** Click "Batch Import → Import Picture", select the folder in the USB disk, click "OK".

➤ **Delete the Face database image**

In the face library details list, select the picture and click "  " to delete the picture from the face database.

### 5.3.5.11 IPEYE

XVR enables IPEYE, you can add this device to your IPEYE account, and view XVR real-time audio / video through IPEYE.

**The steps are as follows:**



**Step 1:** On the Menu interface, click "Camera → IPEYE" to enter the IPEYE enable interface. Select the channel, enable IPEYE, and click "Apply". The interface displays the IPEYE client address, as shown in Figure 8-40 ①.

IPEYE

Channel	1
Enable	<input checked="" type="checkbox"/>
IPEYE Client	http://172.18.195.251:8282/

Warning:IPEYE only supports H264 encoding.

Copy

Apply

Cancel

Figure 8-40 ①

**Step 2:** Log in to IPEYE Client <http://182.18.195.251:8282>, enter the IPEYE and XVR accounts and passwords, select the device to enable IPEYE, and click "Add to Cloud" to add the device to the IPEYE account, as shown in Figure 8-40 ②.

Add NVR to the Cloud

Cloud Login

Cloud Password

summer

\*\*\*\*\*

If you do not have a username and password, you must register at: <http://ipeye.ru>

NVR Login

NVR Password

admin

\*\*\*\*

#	Real Chanel	Cloud Chanel	Cloud Status	Action
1	30 31	Main: db0ecf91-af04-425a-9305-e75d610d836f/30 Second: db0ecf91-af04-425a-9305-e75d610d836f/31	Wait	Add to Cloud
2	00 01	Main: db0ecf91-af04-425a-9305-e75d610d836f/00 Second: db0ecf91-af04-425a-9305-e75d610d836f/01	Wait	Add to Cloud
3	10 11	Main: db0ecf91-af04-425a-9305-e75d610d836f/10 Second: db0ecf91-af04-425a-9305-e75d610d836f/11	Wait	Success
4	20 21	Main: db0ecf91-af04-425a-9305-e75d610d836f/20 Second: db0ecf91-af04-425a-9305-e75d610d836f/21	Wait	Add to Cloud


Figure 8-40 ②



**Note:**

- New user please log in <http://www.ipeye.ru/> to register an account.



**Step 3:** Log in to <http://www.ipeye.ru/> and enter the IPEYE device list to view the newly added device name as "cloud\_xxxxx", and click " " to view the device real-time video.



**Note:**

- The IPEYE function only supports H264-encoded video streams. When the device channel is not H264-encoded, the real-time video of the channel cannot be previewed through IPEYE.

**5.3.5.12 Update Camera**

On the menu page, select "Camera → Update Camera" to enter the Update Camera interface, as shown in Figure 5-41. Here you can add backend upgrade frontend.

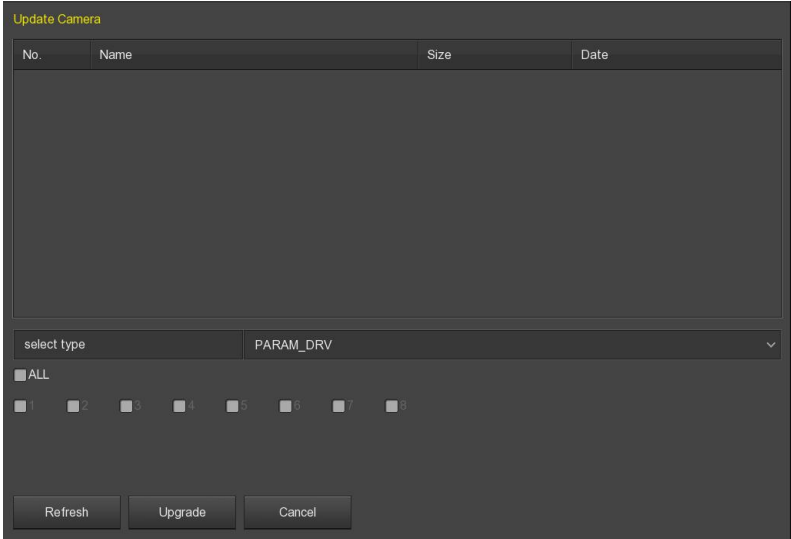


Figure5-41



**Caution**

- Some XVRs do not support update camera features.
- Only some cameras are supported here, and rich IPC and 1080P simulators are not supported.

**5.3.6 Configuration**

**5.3.6.1 General**



General settings are divided into two parts: Device settings and Date settings. Here you can get and set the XVR language, record mode, record days, video standards, standby time and date settings and other related information.

■ **Device Settings**

On the Menu interface, click "Configuration → General" to enter the Device settings interface, as Figure 5-42 shows.

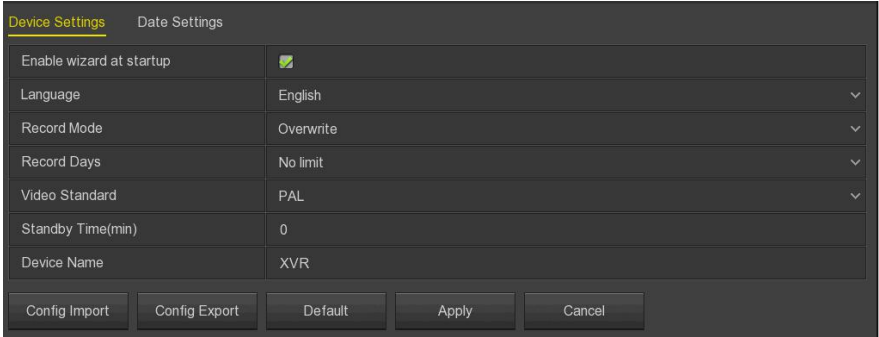


Figure 5-42

- **Enable Wizard at startup:** Click the "Enable wizard at startup" to enter the "Startup Wizard" configuration directly when you turn on next time.
- **Language:** Set the default language of the system, currently supports Simplified Chinese, Traditional Chinese, English, Polish, Czech, Russian, Thai, Hebrew, Bulgarian, Arabic, German, French, Portuguese, Turkish, Spanish, Italian, Hungarian, Roman, Korean, Dutch, Greek, Vietnamese and Japanese, the default is English.
- **Record Mode:** When the disk is full, it will automatically overwrite the oldest video; when the disk is not full, but the number of recording days to reach the user settings, automatically cover the earliest video.
- **Record Days:** Set the number of days for XVR recording storage. There are no restrictions, 30, 15, 7, 6, 5, 4, 3, 2, 1 options in the drop-down menu.
- **Video Standard:** According to the local standard selection PAL or NTSC.
- **Standby Time (min) :** The default is 10 minutes, can be set range: 0-120 minutes, where "0" for the permanent standby.
- **Device Name:** Fill in the name of the device according to actual needs, the default is XVR.
- **Config Import:** Insert the U disk that stores the .ini format XVR configuration file into the XVR. Click "Config import → Confirm". The XVR automatically starts data import and waits for the XVR to start importing the data.



- **Config Export:** Insert the USB flash drive into the XVR, and click "Config Export → Confirm ", the configuration file will be stored in the USB flash drive. The configuration file format is ".ini".

## ■ Date Settings

On the Menu interface, click "Configuration → General → Date Settings" to enter the Date Settings interface, as Figure 5-43 shows. After setting the device time, click "Apply" to save the settings.

The screenshot shows the 'Date Settings' interface. At the top, there's a tab labeled 'Date Settings' under 'Device Settings'. Below it, a prompt says 'Select the system time zone'. A dropdown menu shows 'Time Zone' set to 'GMT+00:00'. A checkbox 'Set Date/Time Manually' is checked. Below this, there are fields for 'Date/Time' (2019 - 10 - 12 16 : 01 : 05), 'Separator' (.), 'Date Format' (Year Month Day), and 'Time Format' (24 Hours). A checkbox 'Receive Date/Time From NTP' is unchecked. Below it, 'NTP Server' is 'time.nist.gov', 'NTP Port' is '123', and 'Interval(Min)' is '10'. A checkbox 'Daylight-Saving Time' is unchecked. Below it, 'Type' is 'Week', 'Offset(Min)' is '60', 'Start Time' is 'Mar. 1st Sun 3 Hour 3 Min', and 'End Time' is 'Nov. 1st Sun 3 Hour 3 Min'. At the bottom, there are buttons for 'Channel Check Time', 'Default', 'Apply', and 'Cancel'.

Figure 5-43

- **Select the system time zone:** NTP time-targeted Microsoft time zone format, where the device is located. For example: Beijing GMT +8.
- **Set Date/Time Manually:** When checked "☒", adjust the date / time, date separator, date format, and time format to set the local time.
- **Date/Time:** Click on the need to modify the location, pop-up keyboard, enter the date and time through the keyboard.
- **Date Format:** Select the date display format, including "Date Month Year", "Month Day Year" and "Year Month Day".
- **Separator:** Select the separator for the date format.
- **Time Format:** Choose a 24-hour or 12-hour format.
- **Receive Date/Time From NTP:** Check "☐" to enable NTP time update function. You can also reset the NTP server by setting the server, port, and selecting the time zone and NTP update interval.
- **NTP Server:** Enter the IP address or domain name where the NTP server is installed.



- **NTP Port:** Set the port of the NTP server.
- **Interval (Min):** The interval between two time intervals can be set to 0-255 minutes for the NTP update interval.
- **Daylight-Saving Time:** Check "☐", open the daylight saving time function, set the relevant parameters, such as type, date, start time, end time and so on.
- **Channel Check Time:** Select the channel, click "Save", set the channel time and XVR time consistent.

### 5.3.6.2 Network

#### ■ IP/Port

Set the IP address and DNS server of the XVR to ensure that the other devices in the network can communicate with each other. The IP/Port setup steps are as follows:

**Step 1:** On the Menu interface, click "Configuration → Network → IP/Port" to enter the IP/Port interface, as Figure 5-44 shows.

**Step 2:** Configure related network parameters such as IP address, subnet mask, gateway, and preferred DNS.

**Step 3:** Click "Apply" to save the settings.

The screenshot displays the 'IP/Port' configuration window. At the top, there are tabs for 'IP/Port', 'DDNS', 'E-mail', 'P2P', 'FTP', 'UPnP', 'Cloud Storage', 'Telnet', and 'IP Filter'. The 'IP/Port' tab is selected. Below the tabs, the configuration is organized into a table-like structure with labels on the left and values on the right. The values are as follows:


Parameter	Value
Ip Address	172 • 18 • 195 • 252
Enable DHCP	<input type="checkbox"/>
Network Mask	255 • 255 • 248 • 0
Gateway	172 • 18 • 192 • 1
Primary DNS	202 • 96 • 134 • 133
Secondary DNS	8 • 8 • 8 • 8
Broadcast IP	0 • 0 • 0 • 0
Device MAC	11:22:33:44:55:66
TCP Port	5000
HTTP Port	80
RTSP Port	554
Private Port	6000
RTSP Encryption Enable	<input type="checkbox"/>

At the bottom of the window, there are four buttons: 'Refresh', 'Default', 'Apply', and 'Cancel'.

Figure 5-44

- **IP Address:** The default is 192.168.1.168, which can be set according to the network plan.



- **Enable DHCP:** Enable / disable DHCP (Dynamic Host Configuration Protocol) function. "IP address", "subnet mask", and "default gateway" can not be set when DHCP is enabled.
- **Network Mask:** The default is 255.255.255.0, which can be set according to the network plan.
- **Gateway:** The default is 192.168.1.1, which can be set according to the network plan and must be on the same network segment as the IP address.
- **Primary DNS:** The default is "192.168.1.1", usually offered by local ISP. Your IP address of domain name server is entered here.
- **Secondary DNS:** Start secondary DNS when the primary one does not work.
- **Broadcast IP:** Reserved.
- **Device MAC:** Displays the physical address of the XVR.
- **TCP Port:** Default value is 5000, according to the actual needs of users to set the port.
- **HTTP Port:** Default value is 80, according to the actual needs of users to set the port.
- **RTSP Port:** Default value is 554, according to the actual needs of users to set the port.
- **Private Port:** Default value is 6000, according to the actual needs of users to set the port.
- **RTSP Encryption Enable:** The default is off, click "" to open, encrypt RTSP stream.
- **Refresh:** Click the refresh interface.



### Caution

- The IP address and the default gateway must be in the same network segment.
- If XVR enabled DHCP is in effect and you turn off DHCP, you cannot display the original IP information. You need to reset the IP address and other parameters.

### ■ DDNS

If the device does not have a fixed access address, the DDNS (Dynamic Domain Name Server) can be used to access the device through the domain name. This can effectively solve the problem that the dynamic IP brings to the access device.



**Prerequisites**

Before configuring DDNS, make sure that the device supports the type of domain name resolution server, and log in to the DDNS service provider's website to register user name, password, domain name, and other information on the WAN PC.

**Configure DDNS as follows:**

**Step 1:** On the menu page, select " Configuration →Network →DDNS " to enter the DDNS interface, as shown in Figure 5-45.

**Step 2:** Check "Enable DDNS", select the DDNS type, and enter the refresh time (seconds), username, and password.

**Step 3:** Click "Apply" to save the DDNS configuration.

**Step 4:** Enter the domain name in the PC web browser and press [Enter]. If you can display the web interface of the device, the configuration is successful. If it is not displayed, the configuration fails and needs to be reconfigured.

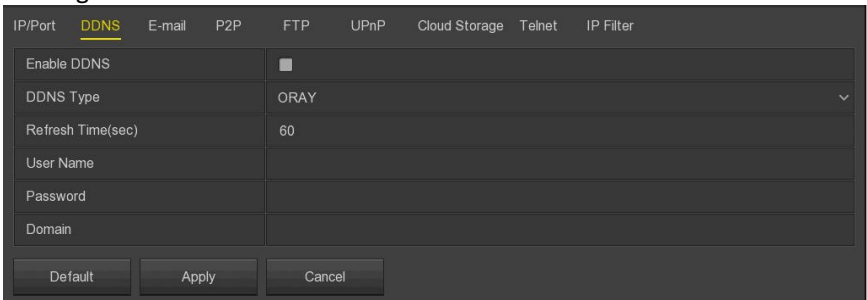


Figure 5-45

- **Enable DDNS:** Enabling DDNS domain resolving function.
- **DDNS Type:** Select the DDNS type by dynamic domain name resolution server. (At present, the device supports multiple DDNS, including ORAY, NO-IP, DYN, CHANGEIP, A-PRESS, MYQSEE, SKDDNS, SMART-EYES. These multiple DDNSs can coexist at the same time, and the user can select and set them as needed).
- **Refresh Time (sec):** Do not register frequently. The interval between two registrations shall be more than 60 seconds. Too many registration requests may result in server attack.
- **User Name:** The account registered in the DNS service provider.
- **Password:** The password to the account registered in the DNS service provider.
- **Domain:** The domain name registered in the DNS service provider.





### Note

- After setting up DDNS, ensure that the XVR is connected to the WAN to access the device through the DDNS domain name.

### ■ Email

After setting the email information and enabling the alarm linkage email function, when the XVR triggers an alarm, the system sends an alarm email to the user mailbox.

**The configuration email operation steps are as follows:**

**Step 1:** On the main menu page, click "Configuration → Network → E-mail" to enter the E-mail setting interface, as shown in Figure 5-46 below.

**Step 2:** Enable e-mail alarm notifications, configure SMTP server, SMTP port, user name, password, sender, subject, message interval, and select encryption type, attach file and other parameters.

**Step 3:** Click "E-mail test" and the message "Success. Check the inbox." is displayed. Then the mail configuration is successful. If the message "E-mail can't be delivered!" is displayed, the mail configuration fails.

**Step 4:** After the email is sent successfully, click "Apply" to save the email configuration.



IP/Port	DDNS	<u>E-mail</u>	P2P	FTP	UPnP	Cloud Storage	Telnet	IP Filter
Enable E-mail Notifications			<input type="checkbox"/>					
SMTP Server			Custom					
Custom SMTP server			smtp.MailServer.com					
SMTP Port			465					
User Name			User					
Password			*****					
Sender			User					
Sender's address			User@domain.com					
Select recipients			Recipient1					
Recipient			receiver1@domain.com					
Subject			XVR ALERT					
Message Interval(Min)			1					
Encryption			SSL					
Attach File			<input type="checkbox"/>					
Time Period 1			00 : 00 - 24 : 00					
Time Period 2			00 : 00 - 00 : 00					
Enable auto E-mail			<input type="checkbox"/>					
Email Interval(min)			10					
E-mail Test			Default			Apply		
						Cancel		

Figure 5-46

- **Enable E-mail Notifications:** Enable / disable mail sending.
- **SMTP Server:** Select the SMTP sever type.
- **Custom SMTP Server:** Please input your email SMTP server IP or server domain name (if the domain name requires confirmation that the DNS settings are correct, the domain name can be parsed correctly).
- **SMTP Port:** Please input corresponding port value here.
- **User Name:** Please input the user name to login the sender email box.
- **Password:** Please input the corresponding password here.
- **Sender:** Please input sender email box here.
- **Sender's address:** Outbox address.
- **Select recipients:** Recipient e-mail address, you can choose to set three, send only three e-mail.
- **Recipient:** Inbox address.
- **Subject:** Please input email subject here. System support English character and Arabic number, default "XVR\_ALERT".
- **Message Interval (Min):** The interval between sending emails. After the email sending interval is set, when the alarm is triggered, the system



does not trigger the immediate sending of the email according to the alarm signal. Instead, the email is sent according to the interval time of the same type of event email. Avoid frequent alarms and generate a lot of mail, causing the mail server to be overstressed. The time range is 0~600 minutes, and 0 minutes means that the mail is sent without interval.

- **Encryption:** Select the Mailbox server encryption, including NONE, SSL, TLS, and default "SSL".
- **Attach File:** Turn on/off the email attachment function. After the alarm is turned on, the system can send snap shots when the alarm is sent.
- **Time period (1/2):** Set the time range for sending mail. After setting, send the alarm message at that time; do not send mail at other times.
- **Enable auto E-mail:** Enable / disable automatic email sending.
- **Email interval (min):** Mail sending interval.
- **E-mail Test:** Test email sending and receiving functions are normal. In the correct configuration, the receiving email will receive a test email. When the test fails, check the parameters or network status.

## ■ P2P

P2P is a private network penetration technology. It does not need to apply for a dynamic domain name, perform port mapping, or deploy a transit server. You can directly scan the QR code to download a mobile client. After registering an account, you can add and manage multiple IPC, NVR, XVR devices simultaneously on the mobile client.

You can add devices in the following two ways to manage multiple devices.

- 1) Scan the QR code for the mobile phone system, download the App and register the account. For details, see the App User Manual on the website.
- 2) Log on to the P2P platform, register an account, and add the device via the serial number.



### Caution

- With this function, the device must be connected to an external network; otherwise it will not work properly.

### P2P steps are as follows:

**Step1:** On the main menu page, click "Configuration → Network → P2P" to enter the P2P interface, as shown in Figure 5-47 below.

**Step2:** Make sure that the XVR accesses the external network and click "Enable P2P".

**Step 3:** Click "Apply" to save the configuration.



**Step 4:** Click "Refresh" and the status shows "Online ". This indicates that P2P is enabled and can be used normally.

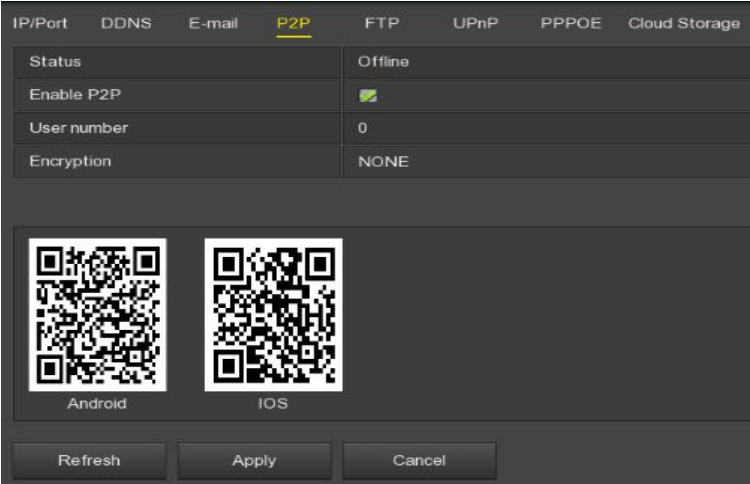


Figure 5-47



- **Status:** Display device P2P online status.
- **Enable P2P:** Turn on / off device P2P function, The default is "On".
- **User number:** Displays the current user viewing the XVR channel video number on the App client.
- **Encryption:** Select the encryption type. After the device is enabled, all signaling communication between the device and the server is encrypted.
- **Android:** Download Link of P2P client for Android system.
- **iOS:** Download Link of P2P client for iOS system.
- **SN:** Displays the serial number of the device P2P. This serial number is unique.
- **Refresh:** Refresh the P2P interface related information.

**App Client operation example**


The following content is introduced by taking the operation of the mobile phone client (BitVision App) as an example. The steps are as follows:

- Step 1:** Use the Android or iOS phone to scan the corresponding QR code to download and install the BitVision App.
- Step 2:** Run the client and log in to the account (No account is required to register first).
- Step 3:** Add devices to the mobile client.



After login, click "Device" →  →  "Add device" → "SN Add", Align the QR code on the device body or P2P interface to scan → enter the device user name, password and verification code after scan the QR code (the verification code printed on the label), click "Add" to set device note and group, click "Send" after add successfully.

#### Step 4: Live preview

Select "REAL TIME" and " " to enter the device list in the main interface, select the touching pen and the channel to be previewed in the group, you will see the live video after click " Done ".

#### ■ FTP

With FTP (File Transfer Protocol) server, you can store alarm pictures on the FTP server.

##### Prerequisites

You need to purchase or download the FTP service tool and install the software on your PC.



##### Caution

- To create an FTP user, you must set FTP folder write permission. Otherwise, the picture will not be uploaded successfully.

##### Configure FTP operations as follows:

**Step 1:** On the main menu page, click "Configuration → Network → FTP" to enter the FTP interface, as shown in Figure 5-48 below.

**Step 2:** Select "Enable FTP" and enter the server address, port, user name, password, and set the FTP file upload path and arming time.

**Step 3:** Click "Apply" to save the configuration.

**Step 4:** Click "Test" to determine whether the network connection and FTP configuration are correct.



##### Caution

- If the test fails, recheck the network or FTP configuration.



IP/Port	DDNS	E-mail	P2P	<u>FTP</u>	UPnP	Cloud Storage	Telnet	IP Filter
Enable FTP	<input type="checkbox"/>							
FTP Server	0 . 0 . 0 . 0							
FTP Port	21							
User Name								
Password								
File Upload								
Channel	1							
Week	Tues							
Time Period 1	<input checked="" type="checkbox"/> 00 : 00 - 00 : 00							
Time Period 2	<input type="checkbox"/> 00 : 00 - 00 : 00							
<input type="button" value="Test"/> <input type="button" value="Default"/> <input type="button" value="Apply"/> <input type="button" value="Cancel"/>								

Figure 5-48

- **Enable FTP:** Turn on / off the device FTP function. The default is "Off".
- **FTP Server:** Host IP address of the FTP server.
- **FTP Port:** Domain port number when FTP is built. The default FTP port is 21.
- **User Name:** Please input the user name to login the FTP server.
- **Password:** Please input the corresponding password here.
- **File Upload:** Create folders according to the rules in the FTP account directory.
  - ✓ When the remote directory is empty, the system automatically creates different folders according to IP and time.
  - ✓ Enter the name of the remote directory, the system will create a folder with the corresponding name in the FTP root directory, and then press IP, time to create a different folder.
- **Channel:** For uploading video file settings, the week, time period, and video type of the uploaded video can be set separately for each channel.
- **Week:** Select the time to upload the FTP file according to the week. You can set two time periods each week.
- **Time Period 1 & 2:** Set the time period for uploading FTP files in one day.
- **Test:** Click "Test", test XVR can successfully upload files to the FTP server

## ■ UPnP

After the mapping between the internal network and the external network is established through the UPnP(Universal Plug and Play) protocol, the external



network user can use the external network IP address to directly access the XVR device on the intranet.

**Prerequisites**

- 1) UPnP function requires router support. Before setting the UPnP function, log in to the router and set the IP address of the router's WAN port to access the external network.
- 2) Make sure that the router is a first-level router (or virtual first-level router) and turn on the UPnP function.
- 3) Connect the device to the LAN port of the router and access the private network.
- 4) In the main menu, select "Configuration → Network → IP/Port", set "IP address" as the router's private IP (for example: 192.168.1.101) or select "DHCP" to obtain the IP address automatically.

**The steps are as follows:**

**Step 1:** On the main menu page, click "Configuration → Network → UPnP" to enter the UPnP interface, as shown in Figure 5-49.

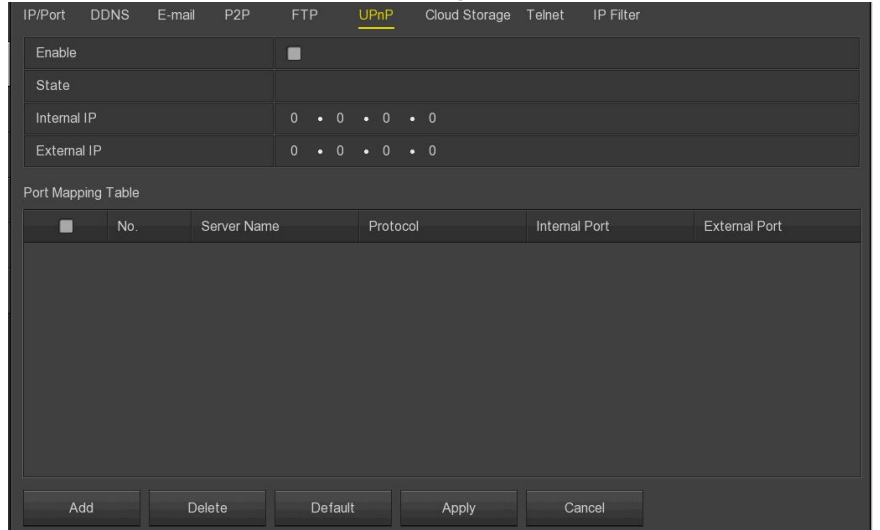


Figure 5-49

**Step 2:** Enable the UPnP function, click the "Add", set the server name, protocol, internal port and external network port, and click "Save".

**Step 3:** Click "Apply" to save the configuration.

- **Enable:** Turn on/off the device UPnP function.
- **State:** Displays the mapping status of UPnP.



- **Internal IP:** Enter the router's LAN port address. After the mapping is successful, the IP address will be automatically obtained without setting.
- **External IP:** Enter the router's WAN port address. After the mapping is successful, the IP address will be automatically obtained without setting.
- **Port Mapping Table:** This corresponds to the UPnP mapping table information on the router.
  - ✓ **Service Name:** The web server name.
  - ✓ **Protocol:** The type of agreement.
  - ✓ **Internal Port:** The port that the local machine needs to map.
  - ✓ **External Port:** The port mapped on the router.
- **Add:** Click "Add" to increase the mapping, enter the service name, internal port, and external port.
- **Server Name:** Enter the service name and define it yourself.
- **Internal Port:** You need to enter the corresponding HTTP port, RTSP port, TCP port.
- **External Port:** Can be self-defined, and the internal port can be the same, but can not and XVR other ports repeat.
- **Delete:** Select the mapping information in the port mapping table and delete the mapping relationship.



### Caution

- When setting the external port of the router mapping port, try to use the port between 1024 and 65535. Avoid using the well-known port 1~255 and the system port 256~1023 to avoid conflict.
- When deploying multiple devices in the same LAN, plan the port mapping to avoid mapping multiple devices to the same external port.
- When performing port mapping, ensure that the mapped port is not occupied or restricted.
- TCP internal and external ports must be consistent and cannot be modified.

### ■ Cloud Storage

Set cloud storage. When the device triggers an alarm, it can store the captured alarm image of the device on the cloud server.

#### Prerequisites

- 1) You need to have a Dropbox or Google Cloud Storage account.



2) Using this function, the device must be connected to an external network; otherwise it will not work properly.

**Set up cloud storage as follows:**

**Step 1:** On the main menu page, select "Configuration → Network → Cloud Storage" to enter the cloud storage setting interface, as shown in Figure 5-50 below.

**Step 2:** Enable cloud storage, select the cloud storage type, Dropbox or Google, click Bind, follow the prompts to log in to the corresponding website using a browser on the computer, and enter the obtained "Authorization Code" as "Binding" In the "Authorization code" column of the interface, click "Confirm".

**Step 3:** Click "Apply".

**Step 4:** Click "Test" to test whether the XVR can successfully upload files to the cloud server. After the binding is successful, the cloud storage interface displays the "Dropbox" username, total capacity, and used space.

IP/Port	DDNS	E-mail	P2P	FTP	UPnP	Cloud Storage	Telnet	IP Filter
Enable				<input type="checkbox"/>				
Dropbox				<input type="checkbox"/>				Bind
Google				<input type="checkbox"/>				Bind
Upload Folder				event_picture				
UserName								
Capacity								
Used								
Test		Default		Apply		Cancel		

Figure 5-50

- **Enable:** Turn on/off the device cloud storage function.
- **Dropbox:** Select a cloud storage Type.
- **Google:** Select a cloud storage Type.
- **Upload Folder:** Set the upload cloud space folder name.
- **Username:** Displays the user name for the corresponding cloud storage type.
- **Capacity:** After the cloud storage binding is successful, the total capacity of the cloud space is displayed.
- **Used:** Cloud storage binding is successful; the display of cloud space has been used capacity.



- **Test:** After binding, click Test to confirm whether the binding is successful. If the test fails, check whether the device is properly connected to the network and the cloud storage configuration.

## ■ Telnet

On the main menu page, select "Configuration → Network → Telnet " to enter the Telnet interface, as shown in Figure 5-51 below.



Figure 5-51

- **Enable:** Enable / disable the remote Telnet login function, default is off.

## ■ IP Filter

IP filter is used to restrict the login of the XVR web client to the PC. There are two types of black list and white list.

- **Black list:** Add the IP address and MAC address of the client computer that cannot log in to the device web page to the blacklist. After IP filtering is enabled, the computer with the IP or MAC address will not be able to log in to the XVR web page.
- **White list:** Add the IP address and MAC address of the client computer that can log in to the device web page to the white list. After IP filtering is enabled, the computer can log in to the XVR web client only when the IP and MAC addresses of the computer are identical with the information in the white list.

**The steps to add a black/white list are as follows:**

**Step 1:** On the main menu page, select "Configuration → Network → IP Filter" to enter the IP Filter setting interface, as shown in Figure 5-52.



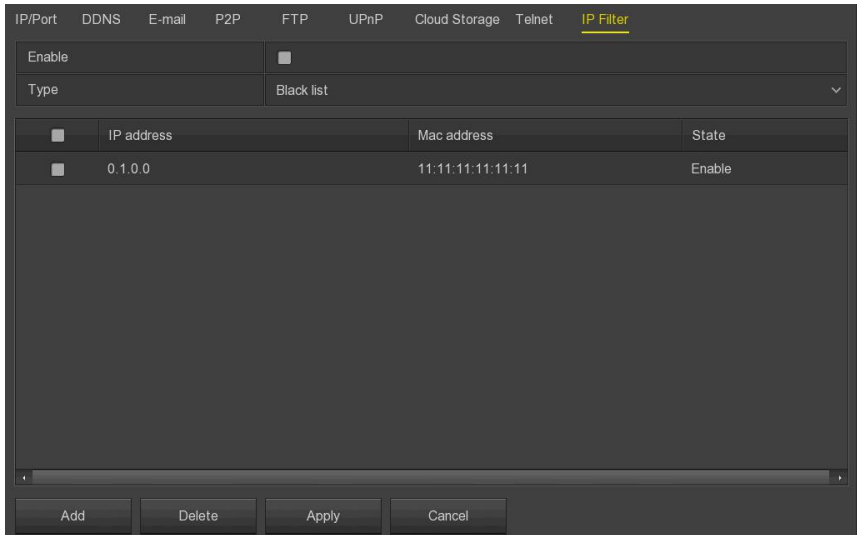


Figure 5-52

**Step 2:** Select the IP filtering type, such as "blacklist".

**Step 3:** Click "Add", enter the IP address and MAC address, and set the state to "Enable".

**Step 3:** Click "Apply".

#### The IP filtering steps are as follows:

**Step 1:** On the main menu page, select "Configuration → Network → IP Filter" to enter the IP Filter setting interface.

**Step 2:** Check "☒" to enable and select the IP filtering type.

**Step 3:** Click "Apply".

- **Enable:** Check "1" to enable/disable IP filtering of XVR..
- **Type:** There are also "Black list" and "White list" options.
- **Black/White list:** A list of the names of the currently selected types, showing all added IP addresses, MAC addresses, and state (on/off) in the list. Double-click a list in the list to enter the Add IP interface to modify the IP address and other related information.
- **Add:** Add a black and white list. Add a list to the current selection type, enter the IP address, MAC address, set the state, and click "Apply" to complete the addition.
- **Delete:** Delete the information in the list. Select the type of the list, select the information on one or more lists of "☒", and click "Delete".





## Notice

- The device supports adding up to 128 whitelists and 128 blacklists.
- When adding a black/white list, the letters in the MAC address must be lowercase and separated by ":", such as "00:bb:f2:00:15".
- When the IP filtering type is black/white, at most one of the lists takes effect. If the whitelist is enabled first, and then the blacklist is enabled, the whitelist is automatically closed.

### 5.3.6.3 Display

Set the display effect of the device preview interface, including output resolution, transparency, display OSD time, display channel name, and show after boot.

**The steps are as follows:**

**Step 1:** On the menu page, select "Configuration → Display" to enter the video display interface, as shown in Figure 5-53.

**Step 2:** Configure resolution, transparency, and other related parameters.

**Step 3:** Click "Apply" to save the configuration.

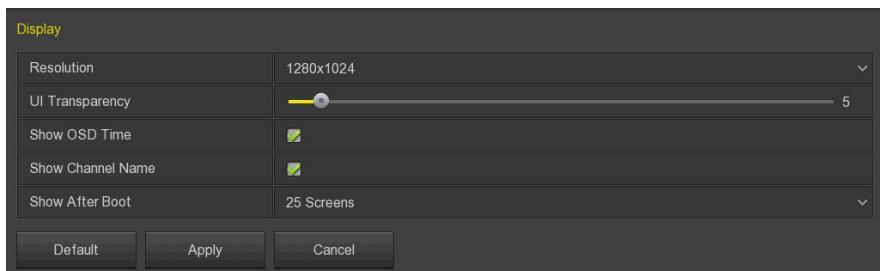


Figure 5-53

- **Resolution:** The selectable values are 1024×768, 1280×720, 1280×1024, 1920×1080, 2560×1440, 3840×2160, and the default resolution is 1920×1080. After the parameters are saved, the device can be restarted to take effect. The 4K XVR HD interface supports up to 4K resolution output.
- **UI Transparency:** The higher the percentage, the more transparent device local menu.
- **Show OSD Time:** Turns on / off the device time information displayed on the monitor screen. The default is on.
- **Show Channel Name:** Turns on / off the channel name information displayed on the monitor screen. The default is on.



- **Show After Boot:** Select the number of split screen display screen.

### 5.3.6.4 Exceptions

Set the alarm mode of abnormal events. When an abnormal event occurs during the operation of the XVR device, the system executes the alarm linkage action.

#### ■ Disk Exception

The steps are as follows:

**Step 1:** On the menu page, select "Configuration → Exceptions → Disk Exception" to enter the disk exception setting interface, as shown in Figure 5-54.

**Step 2:** Select the event type, click "Enable", and enable the sending of mail and buzzer alarm.

**Step 3:** Click "Apply" to save the configuration.

Event Type	No Disk
Enable	<input type="checkbox"/>
Screen Display	<input type="checkbox"/>
Send E-mail	<input type="checkbox"/>
Buzzer Alarm	<input type="checkbox"/>

Default Apply Cancel

Figure 5-54

- **Event Type:** Including No Disk and Disk Error in two cases.
- **Enable:** Turns on / off disk exception alarm.
- **Screen Display:** Turns on / off the screen display when the device is alarmed.
- **Send E-mail:** Turns on / off the sending mail function that occurs when a disk exception, send mail to the specified mailbox.
- **Buzzer Alarm:** Turn on / off the device beep alarm function, that is, the buzzer sounds when a disk error occurs.

#### ■ Network Exception

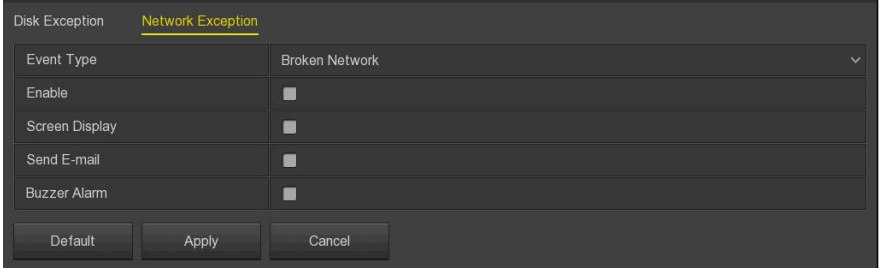
The steps are as follows:

**Step 1:** On the menu page, select "Configuration → Exceptions → Network Exception" to enter the network exception setting interface, as shown in Figure 5-55.



**Step 2:** Select the event type, click "Enable", and enable the sending of mail and buzzer alarm.

**Step 3:** Click "Apply" to save the configuration.



Event Type	Broken Network
Enable	<input checked="" type="checkbox"/>
Screen Display	<input type="checkbox"/>
Send E-mail	<input type="checkbox"/>
Buzzer Alarm	<input type="checkbox"/>

Default Apply Cancel

Figure 5-55

- **Event Type:** Including No Disk and Disk Error in two cases.
- **Enable:** Turns on / off disk exception alarm.
- **Screen Display:** Turns on / off the screen display when the device is alarmed.
- **Send E-mail:** Turns on / off the sending mail function that occurs when a disk exception, send mail to the specified mailbox.
- **Buzzer Alarm:** Turn on / off the device beep alarm function, that is, the buzzer sounds when a disk error occurs.

### 5.3.6.5 User

On the menu page, select "Configuration→ User" to enter the user management interface, as shown in Figure 5-56. The XVR user management can add, modify, and delete users.



#### Note

- The administrator admin password is factory defaulted to 12345. The administrator admin can add, delete, or edit users.
- The level has two levels of Operator and General. The default permissions of the two levels are different. It is recommended to set the operator authority higher than the normal user authority.



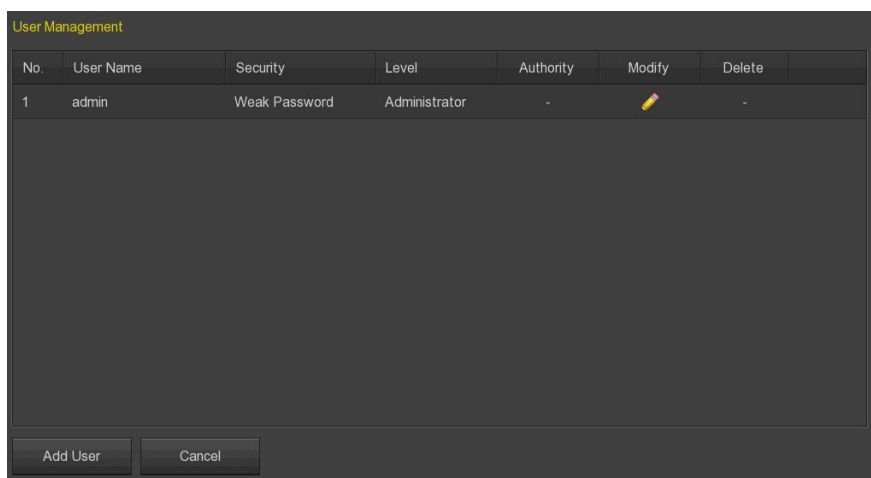


Figure 5-56

- **User List:** Displays all current users of the device; where admin is an administrator user and can only change its password and cannot modify its permissions.

## ■ Add user

The steps are as follows:

**Step 1:** Click the "Add User" button to enter the Add User interface.

**Step 2:** Fill in the user information, select the level, click "Save".

**Step 3:** Setting authority.

Select the added user and click the corresponding " " button below the Authority to enter the permission setting interface and set the user authority.



## Authority Instruction

Authority are divided into local configuration, remote configuration, channel configuration,

- **"Local Config":** Include All, Local Poll, Local HDD, Local Camera Setup, Local Configuration, Local Network, Local Display, Local Exceptions, Local User, Local System Information, Local Log, Local Manual Update, Local Online Update, Local Auto Maintain, Local Restore Default, Local Shutdown Reboot, Local Channel Config, Local Alarm.
- **"Remote Config":** Include All, Remote Poll, Remote HDD, Remote Camera Setup, Remote Configuration, Remote Network, Remote Display,




Remote Exceptions, Remote User, Remote System Information, Remote Log, Remote Manual Update, Remote Auto Maintain, Remote Restore Default, Remote Shutdown Reboot, Remote Channel Config, Remoter Alarm.

- **"Channel Config"**: Local Preview, Local PTZ, Local Playback , Local Record, Local Encode Parameters, Local OSD, Local Image, Local Motion, Local Export, Local Privacy Mask, Local Video Loss, Remote Preview, Remote PTZ, Remote Playback, Remote Record, Remote Encode, Remote OSD, Remote Image, Remote Motion , Remote Export, Remote Privacy Mask, Remote Video Loss for all channel.

#### ■ **Modify the user**

**The steps are as follows:**


**Step1:** Select the user to click modify to correspond to the " " button to enter the Modify User interface.

**Step2:** Modify the user password or user level and click "Save" to complete the modification.

#### ■ **Delete the user**

**The steps are as follows:**

**Step1:** To determine the login user for the administrator user, in the user management interface to select the user to delete, click delete below the

corresponding " " button, pop-up prompt.

**Step2:** Click "Confirm" to delete the user and return to the user management interface.

#### ■ **Modify password**

✓ **The first step to change the administrator password is as follows:**

**Step 1:** On the menu page, select "Configuration → User → Modify" to enter the modify password interface, as shown in Figure 5-57.

**Step 2:** Input the new password and confirm password.

**Step 3:** Select security questions 1, 2, 3 and set the corresponding answer, click "Save".

**Step 4:** Insert the USB disk into the device, click "Export key" to complete the change of the administrator password.



Modify Password	
User Name	admin
New Password	
Confirm	
Warning: The password must not be less than 8 bytes and contain at least one digit and letter!	
Please set security issue	
Security Issue 1	Please select issue ▼
Answer1	
Security Issue 2	Please select issue ▼
Answer2	
Security Issue 3	Please select issue ▼
Answer3	
Warning: Forget the security issue and don't have key file, need to return the equipment to the factory.	
Save	Clear
Export Key	Cancel

Figure 5-57



### Caution

- The security question and corresponding answer must be set when the administrator password is modified for the first time.
- When you change the administrator password, you do not export the key.

✓ **The steps to modify the administrator password again are as follows:**

**Step 1:** On the menu page, select "Configuration → User → Modify" to enter the modify password interface.

**Step 2:** Check the Change Password check box to enter the old password, new password, and confirm password.

**Step 3:** Reset security issues and corresponding answers, export keys.

**Step 4:** Click "Save" to complete the password modification.



### Caution



- When you change the device password again, you don't have to reset the security question and export the key.

### 5.3.6.6 Channel config

Different models of devices support different numbers of IP channels. The device supports increasing the number of IP channels by disabling analog channels.

**The steps are as follows:**

**Step 1:** On the menu page, select "Configuration → Channel config" to enter the Channel configuration interface, as shown in Figure 5-58.

**Step 2:** Check the channel access type on demand. When the channel is connected to the analog camera, select HD, when the channel is connected to the network camera, select IP.

**Step 3:** Click "Apply" to save the configuration.

CH	HD	IP
CH1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CH2	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CH3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CH4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CH5	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CH6	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CH7	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CH8	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CH9	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CH10	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Lite mode: Disable

Default Apply Cancel

Figure 5-58

#### ➤ Lite mode:

- ✓ Turn on LITE mode: maximum access to 5M\_12.5fps, 4M\_15fps, 3M\_18fps and 1080P, maximum support encoding 1080N 25fps when accessing 1080P.
- ✓ Turn off LITE mode: maximum access to 8M\_15fps, 5M\_20fps, 4M\_30fps, 3M\_30fps and 1080P, maximum support encoding 1080P 15fps when accessing 1080P.



**Caution**



- When selecting signal connected mode for single-channel, user need to follow certain rules, the interface will automatically reflect the options in accordance with the rules.
- The actual access signal must match the signal mode that checked. If the "HD" mode is selected for one channel, it can be connected to TVI / CVBS / AHD / CVI signals; when the switching signal causes an abnormality to be displayed, the video cable can be reconnected; if the channel is selected as "IP" mode, then it is an IP channel and IP device can be connected.
- For preview interface, when the HD (TVI / CVBS / AHD / CVI) channel without video signal, the channel name will be prompted "HD VIDEO". When the IP channel without video signal, the channel name will be prompted "NO VIDEO".

### 5.3.6.7 Local Alarm

The local alarm is used for the external input/output alarm device. After the alarm input device triggers the alarm, the alarm signal is transmitted to the XVR through the alarm input port, and the system and the alarm output device are linked to the alarm. The local alarm consists of an alarm input and an alarm output.

#### ■ Alarm Input

The steps are as follows:

**Step 1:** Connect the alarm input device to the XVR alarm input port.

**Step 2:** On the menu page, select "Configuration → Local Alarm" to enter the alarm input configuration interface, as shown in Figure 5-59.

**Step3:** Check "☐" to enable the alarm input function, select the alarm input port according to the actual needs, configure the alarm name, arming time and processing method.

**Step4:** Click "Apply → Apply".

Alarm Input		Alarm Output	
Enable	<input type="checkbox"/>		
Alarm Input	1		
Alarm Name	alarm_in1		
Week	Tues		
Time Period 1	<input type="checkbox"/> 00 : 00 - 00 : 00		
Time Period 2	<input type="checkbox"/> 00 : 00 - 00 : 00		
Processing Method			

Default Copy Apply Cancel



Figure 5-59

- **Enable:** Turns on / off alarm input. The default is off.
- **Alarm input:** Select the alarm input.
- **Alarm Name:** Custom alarm name, you can enter letters, numbers, symbols.
- **Week, Time period1&2:** The arming time period, select the day of the week, set the time period 1&2, and activate the corresponding configuration item to start the alarm within the set time range.
- **Processing Method:** When the alarm input of the device triggers the alarm, the system makes the corresponding linkage alarm mode, and can set the buzzer alarm, send mail, screen prompt, linkage processing and alarm output number.
  - ✓ **Buzzer alarm:** Check "☐". When an alarm occurs, the device starts buzzer sounds an alarm.
  - ✓ **Send e-mail:** Check "☐". When an alarm occurs, the device sends an email to the specified mailbox to notify the user.
  - ✓ **Screen Display:** Check "☐", when the alarm is triggered, the XVR screen will pop up a prompt.
  - ✓ **Linkage:** Select the linkage channel when the alarm is triggered.
  - ✓ **Alarm Output:** Alarm output port, when "☐ " is selected, each time the alarm is triggered, the corresponding alarm output port sends a signal to trigger the XVR externally connected device (such as lights, sirens, etc.) to alarm.

## ■ Alarm Output

The steps are as follows:

**Step 1:** Connect alarm output devices (such as lights, sirens, etc.) to the XVR alarm output port.

**Step 2:** On the menu page, select "Configuration → Local Alarm → Alarm Output" to enter the alarm output configuration interface, as shown in Figure 5-60.

**Step 3:** Check "☐ " to enable the alarm output function, select the alarm output port according to actual needs and configure the arming time.

**Step 4:** Click "Apply".



Alarm Input		Alarm Output	
Enable	<input type="checkbox"/>		
Alarm Output	1	▼	
Week	Tues	▼	
Time Period 1	<input checked="" type="checkbox"/>	00 : 00 - 21 : 00	
Time Period 2	<input type="checkbox"/>	00 : 00 - 00 : 00	
Default Copy Apply Cancel			

Figure 5-60

- **Enable:** Turns on / off alarm output.
- **Alarm input:** Select the alarm output.
- **Week, Time period1&2:** The arming time period, select the day of the week, set the time period 1&2, and activate the corresponding configuration item to start the alarm within the set time range.

## 5.3.7 Maintenance

### 5.3.7.1 System

#### ■ Stream Information

The code stream refers to the data traffic used by the video file in unit time. You can sing the real-time stream and stream waveform changes of each channel.

#### The steps are as follows:

On the menu page, select "Maintenance→ System→ Stream Info" to enter the Stream Information interface, as shown in Figure 5-61.



Stream Info

Version Info

CH	Kb/S	Resolution	
1	0.0	0x0	]
2	0.0	0x0	]
3	0.0	0x0	]
4	0.0	0x0	]

Recv Rate: 5.85 M/s

Send Rate: 0.11 M/s

Page 1

Cancel

Figure 5-61

## Version Information

Here you can view the system version information, including product model, version number and version date.

### The steps are as follows:

On the menu page, select "Maintenance→ System→ Version Info" to enter the Version Information interface, as shown in Figure 5-62.

Stream Info

Version Info

Device Name	Digital Video Recorder
Model No	16-CHANNEL
Version	XVR_3531D_6158C_16_BD_X1_v9.1.38.4
Date	Sep 19 2019 10:33:45

Cancel

Figure 5-62

- **Device name:** Display the device full name, fixed to Digital Video Recorder.
- **Model NO.:** Displays the maximum number of channels supported by the device.
- **Version:** Displays the version number of the program.
- **Date:** Displays the date the program was created.



### 5.3.7.2 Log

Here you can view and export the system's log information.

**The steps to view the log are as follows:**

**Step1:** Select "Menu → Maintenance → Log" to enter the Log interface, as shown in Figure 5-63.

**Step2:** Select the log type; search time period (start time and end time) as required.

**Step 3:** Click the "Query" button to view the log.

**The steps to export the log are as follows:**

**Step1:** Select "Menu → Maintenance → Log" to enter the Log interface, as shown in Figure 5-63.

**Step2:** Select the log type; search time period (start time and end time) as required.

**Step 3:** Insert the USB storage device into the XVR and click "Export" to export the searched log information to the USB device. Or click "Export all" to export all log information from the device to a USB storage device.

The screenshot shows a web interface titled "Log". At the top, there are three input fields: "Type" (set to "All logs"), "Start Time" (2019 - 10 - 08 00 : 00 : 00), and "End Time" (2019 - 10 - 08 23 : 59 : 59). Below these is a table with 4 columns: "No.", "time", "Event", and "User". The table contains 8 rows of log entries, all with the event "Motion Detection Start" and user "system". At the bottom of the interface, there is a warning message: "Warning: You can only query 7 days!". Below the warning are five buttons: "Export", "Export all", "Query" (highlighted in yellow), "PgUp", and "PgDn", followed by a "Clear" button.

Type	All logs
Start Time	2019 - 10 - 08 00 : 00 : 00
End Time	2019 - 10 - 08 23 : 59 : 59

No.	time	Event	User
1	20191008-17:21:52	Motion Detection Start	system
2	20191008-17:21:51	Motion Detection Start	system
3	20191008-17:21:46	Motion Detection Start	system
4	20191008-17:21:44	Motion Detection Start	system
5	20191008-17:21:39	Motion Detection Start	system
6	20191008-17:21:37	Motion Detection Start	system
7	20191008-17:21:32	Motion Detection Start	system
8	20191008-17:21:30	Motion Detection Start	system

Warning: You can only query 7 days!

Export Export all Query PgUp PgDn Clear

Figure 5-63

- **Type:** Select the type of information you request.
- **Start Time/End Time:** Enter the time range for the search log.
- **Export:** Export the log information under the current search conditions to the USB storage drive.
- **Export all:** Export all log information from the device to the USB storage drive.



- **Query:** Click "Query" to start searching the logs.
- **PgUp/PgDn:** Flip function; click to view other log information.
- **Clear:** Clear all information.

### 5.3.7.3 Manual Update

Insert the USB device with the upgrade file into the XVR to upgrade the system version of the XVR. If the device detects the upgrade file in the U disk, the upgrade package information (number, name, size, date) will be displayed in the list.

**The upgrade steps are as follows:**

**Step 1:** Insert the USB device with the upgrade file (named xxxxx\_update\_x\_Vx.x.xx.x.bin) into the XVR.

**Step 2:** On the menu page, select "Menu→ Maintenance → Manual Update" to enter the Manual Update interface, as shown in Figure 5-64.

**Step 3:** Click "Refresh". Select the upgrade file and click "Upgrade → Confirm". Wait for the interface to go through the progress bar and the device will restart automatically to complete the upgrade.

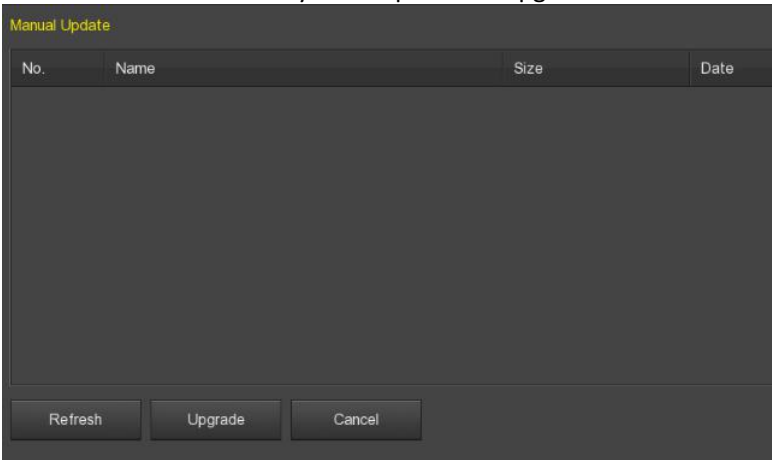


Figure 5-64

- **Refresh:** Refresh the current interface information.
- **Upgrade:** Click the device to start the upgrade.



### Caution

- When you try to refresh or detect the upgrade package several times, check whether the USB storage device is in good contact with the USB port of the device and whether the upgrade file name is correct.
- During the upgrading process, please do not cut off the power or take off your USB storage device. After the upgrading, your system will



restart automatically. (This process will take about 1 to 6 minutes.). Here, we advise you to restore factory Settings after the upgrading.

5.3.7.4 Online update

After the XVR is connected to the public network, the system can be upgraded through an online upgrade. Online upgrade is divided into automatic upgrade and manual detection upgrade, and the current device system version is displayed.

**The automatic online upgrade procedure is as follows:**

**Step 1:** On the menu page, select "Menu → Maintenance→ Online Update" to enter the device upgrade interface, as shown in Figure 5-65.

**Step 2:** Select "Auto Update";

**Step 3:** Set the device update time and click "Apply". When there is a new version in the cloud, the system will automatically detect the version to upgrade the device at the set time.

**The manual online upgrade steps are as follows:**

**Step 1:** On the menu page, select "Menu → Maintenance→ Online Update" to enter the device upgrade interface.

**Step 2:** Click "Check" to view the latest version of the device in the cloud in real time. If a new version is detected, the system will prompt to discover the relevant information of the new version.

**Step 3:** Click "Update". Wait for the device to download the upgrade file and upgrade it. After the upgrade, the device automatically restarts.

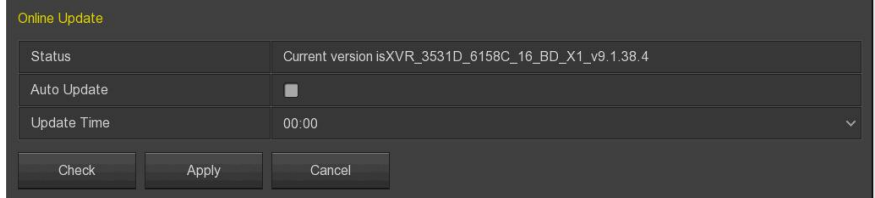


Figure 5-65

- **Status:** The current version of device.
- **Auto update:** Click "☐" to enable the system automatic upgrade function. When the device detects the new online version, it will automatically upgrade according to the set upgrade time.
- **Update time:** Set the automatic update time.
- **Check:** Click check latest online version.



**Caution**



- Before testing a new online version, make sure that the XVR is properly connected to the network.
- During the upgrading process, please do not cut off the power or take off your U disk. After the upgrading, your system will restart automatically. (This process will take about 1 to 6 minutes.) Here, we advise you to restore factory Settings after the upgrading.

### 5.3.7.5 Auto Maintain

When the device runs for a long time, you can set the device to restart during idle time to increase the speed of the device.

**The Auto Maintain procedure is as follows:**

**Step 1:** On the menu page, select "Maintenance → Auto Maintain" to enter the automatic maintenance interface, as shown in Figure 5-66.

**Step 2:** Select the time of "Reboot device automatically".

**Step 3:** Click "Apply" to complete the auto maintain setup.

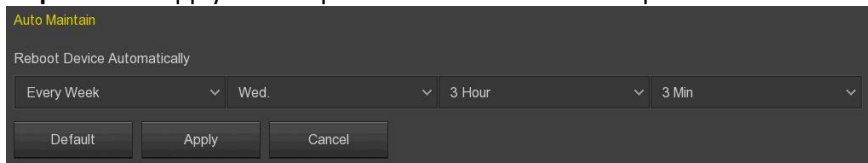


Figure 5-66



### Caution

- Automatic restart the system can be in accordance with the cycle at a fixed time (Every day, Every week, Every month) set to restart the device, you can also choose "Never", equipment is not automatically maintained.

### 5.3.7.6 Restore Default

When the XVR device runs slowly, configuration errors, etc., you can try to solve the problem by restoring the default.

**The default procedure for recovery is as follows:**

**Step 1:** On the menu page, select "Maintenance → Restore Default" to enter the default interface, as shown in Figure 5-67.

**Step 2:** Select the configuration item that needs to be restored to factory settings.

**Step 3:** Click "Apply → Confirm". The XVR device selects and configures the system parameters to restore to the factory default settings.





Figure 5-67

- **Restore record default param:** Select / Cancel Resume Record all interface configuration parameters to the default values.
- **Restore channel default param:** Select / Cancel Resume Camera all interface configuration parameters to the default values.
- **Restore configuration default param:** Select / Cancel Resume Configuration all interface configuration parameters to the default values.
- **Restore system maintenance default param:** Select / Cancel Resume Maintenance all interface configuration parameters to the default values.
- **Restore factory settings:** Select / Cancel all XVR configuration parameters to the default.



### Caution

- After the factory settings are restored, the corresponding functions will be restored to the factory settings. The existing configuration of the user may be lost. Exercise caution.

## 5.3.8 Shutdown

In the menu page, select "Shutdown" to enter the shutdown system interface, you can log off the system; restart the system, shutdown operation. As shown in Figure 5-68:



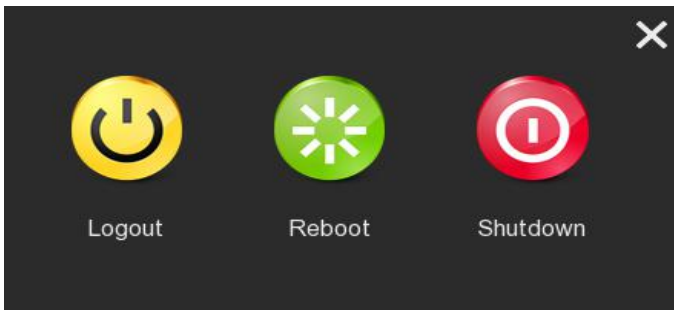


Figure 5-68

- **Logout:** Logout the current user, switch to user login interface.
- **Reboot:** Reboot the device.
- **Shutdown:** Shut down the device, just like computer safe shutdown mode.

## Chapter 6 WEB Operation



### Caution

- Different types of devices have different interface displays. The following screenshots are for reference only. Please refer to the actual ones.
- The XVR supports accessing and managing devices on the PC through the Web.
- The WEB page provides application modules such as real-time preview, playback, picture, configuration and logout.
- The device supports a variety of browser monitoring, such as IE browser, 360 browser, Firefox browser (52 or less version), Google Chrome (Chrome45 or less version).

### 6.1 Internet connection

Multiple PCs can simultaneously access the WEB interface of the device. Before using the browser to log in to the web interface, check whether the network between the PC and the XVR is normal.

**Step 1:** Confirm that the XVR device is properly connected to the network.



**Step 2:** Set the IP address, subnet mask, and gateway for the PC and XVR devices to be in the same network segment.

- ✓ If there is no routing device on the network, allocate the IP address of the same network segment: If there is a routing device on the network, you need to set the corresponding gateway and subnet mask.
- ✓ The default IP address of the XVR device is 192.168.1.88.

**Step 3:** Check whether the network between the PC and the XVR device is normal. The method is as follows. When the network between the PC and the XVR device is normal, you can log in to the web interface of the XVR through the PC.

- ✓ On the PC, ping\*\*\*.\*\*\*.\*\*\*.\*\*\* (XVR IP address) verifies that the network is connected and the returned TTL value is generally equal to 255.
- ✓ Log in to the local interface of the XVR device, and fill in the IP address of the PC on the “Network Test” interface to test whether the network is connected. For details, see 5.3.7.7 Network Detection.

## 6.2 Browser Login

Open Browser, input required IP address, the default setting is 192.168.1.88, and enter the login interface, as below Figure 6-1.

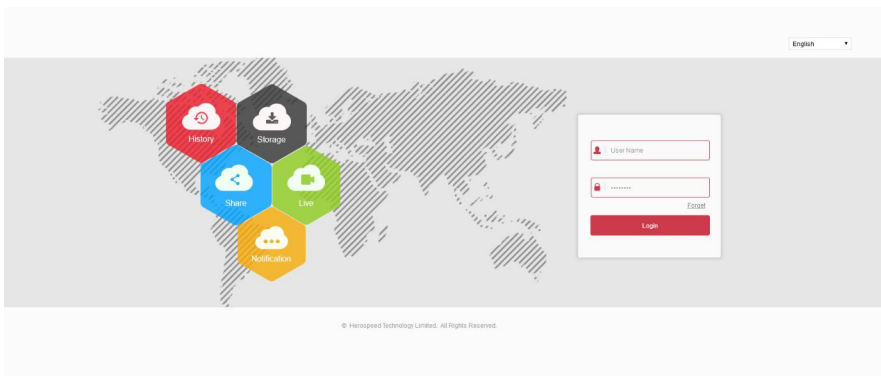


Figure 6-1

In the upper right corner of the interface, select the system language (currently supports Chinese Simplified, Chinese Traditional, English, German, French, Portuguese, Turkish, Spanish, Italian, Hungarian, Roman, Korean,



Dutch, Greek, and Vietnamese, the default is English), enter the user name and password, the default user name is **admin**, password is **12345**, click "login" to log on remotely.



**Caution**

- If you forget the password, you need to go to the local login page of the device, click "Forget", follow the prompts to recover the password, and return to the WEB interface to log in again.
- If the HTTP port is set to a port other than 80, enter "http://IP address +: (colon) + port number" in the address bar of the browser, for example, "http://192.168.1.88:96".

**6.3 Active X install**

The first time you log in to the device, you need to download and install the browser plug-in for the first time, as shown in Figure 6-2, click “Please click here to download the browser plug-in, please close the browser when the download is finished” and follow the prompts to complete the installation.

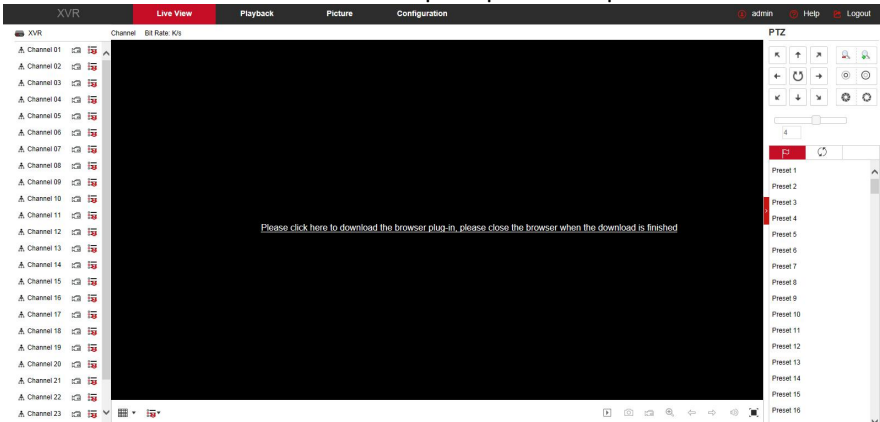


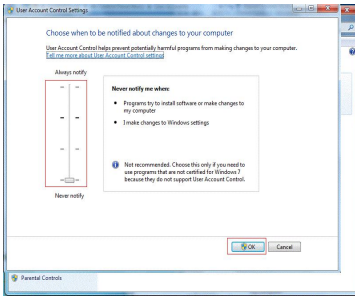
Figure 6-2



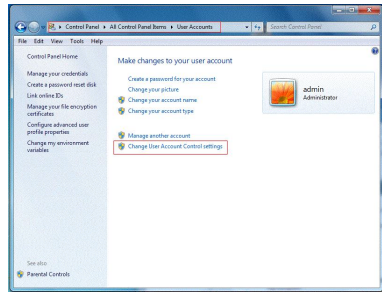
**Caution**

- After upgrading the new version of XVR, you need to delete the original control, download and install new controls.
- For WIN 7 could have problems for backup and recording, if so, please check the Admin setting, procedure as follows:





WIN7-1



WIN7-2

- The Active X can't be loaded. Please adjust the security level and firewall setting to the lowest, and make some adjustment to IE as well: Tool-Internet Option- Custom level-ActiveX- enables all the options below ActiveX and click OK! Finally, the Active X will be downloaded and installed automatically, please refer to the Figure 6-3.



Figure 6-3

## 6.4 Live View

After login the client successfully, entering live preview interface. The interface as below Figure 6-4:





Figure 6-4

**1. System Menu:** Including Live View, Playback, Picture, Configuration, Help, Logout, and show login user name.

**2. Sub Menu:** Displays the device name, current channel number, and bit rate.

**3. Real-time Monitoring Channel.:** Open/Close Preview, record and stream switching.






Mark	Specification
CH1-CH25	Display all channels of the device.
 Channel 01	Open or close corresponding preview channel.
	Start/stop recording, save video on local computer hard drive.
	Main and sub bit stream switching

Table 6-1

### 3. Preview channel shortcut button

Mark	Specification
	Preview window toggle. From left to right are: 1 split screen, 4 split screen, 9 split screen. According to the number of channels supported by the device, the preview window will be different. Please refer to the actual situation.
	Switch all preview channel master, sub code streams, and turn on preview

















	Open / Close all preview channels.
	Click this icon to take a picture. The default storage path of the picture is C:\Record. You can enter the Configuration → Local Config interface to modify it.
	Click this icon to start recording on all channels; click the icon again to stop recording. The default storage path of the recording is C:\Record. You can enter the Configuration → Local Config interface to modify it.
	Local electronic zoom, click this icon to open the electronic zoom function, select to enlarge the channel, hold down the left mouse button to select the area to be zoomed in, release the left button, and select the area to be enlarged; in the zoom channel, click the right mouse button to restore the original status.
	1 Split screen preview, click to switch channels
	Turn on / off the speaker. If the audio is not turned on, there is no sound when listening.
	Full-screen playback, press the keyboard Esc to exit the full screen

Table 6-2

#### 4. PTZ setting operation window

Mark	Specification
	PTZ control direction button
	PTZ self-test
	Zoom button
	Focus button
	Aperture control button
	The step size is mainly used for speed control. The larger the value, the faster the rotation speed. For example, the rotational speed of step 7 is much larger than the rotational speed of step 1.
	Preset settings








	Call preset
	Setting
	Delete settings
	Cruise path settings
	Turn on / off cruise

Table 6-3

## 6.5 Configuration

Click Configure to enter the configuration interface where you can remotely configure device parameters. The configuration consists of Local Config, Camera, Record, HDD, System and Maintain.

### 6.5.1 Local Config

In the main interface, click "Configuration → Local Config" to enter the local configuration interface, as shown in Figure 6-5. Here you can set the device video file, capture and clip corresponding to the local computer's save path, click "Browse" to select the path to save, click "Save" to complete the path settings.

**Local Config**

Record File Settings

Save record files to

C:\XVR\Record

Browse

Save downloaded files to

C:\XVR\DownloadFiles

Browse

Picture and Clip Settings

Save capture files in live view to

C:\XVR\Capture

Browse

Save capture files when playback to

C:\XVR\PlaybackPics

Browse

Save clips to

C:\XVR\PlaybackFiles

Browse

Save

Figure 6-5

## 6.5.2 Camera

### 6.5.2.1 Add Camera

In the main interface, click "Configuration → Camera → Add Camera" to enter the add camera interface, as shown in Figure 6-6. Here you can add,



edit, and delete devices to the device as needed. The relevant parameters are consistent with the XVR-side settings.

Add Camera

Add		Manual Add			Del			
<input type="checkbox"/>	Channel(6)	Edit	Del	Conf.	IP	State	Port	Protocol
<input type="checkbox"/>	15	Edit	Del	Conf.	172.18.196.74	Normal	80	Private
<input type="checkbox"/>	16	Edit	Del	Conf.	172.18.195.178	Normal	80	Private
<input type="checkbox"/>	17	Edit	Del	Conf.	172.18.195.176	Normal	80	Private
<input type="checkbox"/>	18	Edit	Del	Conf.	172.18.195.174	Exception	80	Private
<input type="checkbox"/>	19	Edit	Del	Conf.	172.18.195.173	Normal	80	Private
<input type="checkbox"/>	20	Edit	Del	Conf.	172.18.195.171	Normal	80	Private

Figure 6-6


6.5.2.2 OSD

In the main interface, click " Configuration → Camera → OSD" to enter the OSD setting interface, as shown in Figure 6-7. Here you can view and set the IPC text, date format, display location and image and other related information, the parameters are consistent with the XVR-side settings.

OSD

Channel

CH01



Time☒

Text☐

Date Format

Day Month Ye

OSD Position

Top\_Left

Channel Name

Mirror

Off

Save



Figure 6-7

### 6.5.2.3 Image

In the main interface, click " Configuration → Camera → Image" to enter the Image setting interface, as shown in Figure 6-8. Here you can view and set the channel brightness, contrast, saturation and sharpness, the relevant parameters are consistent with the XVR-side settings.

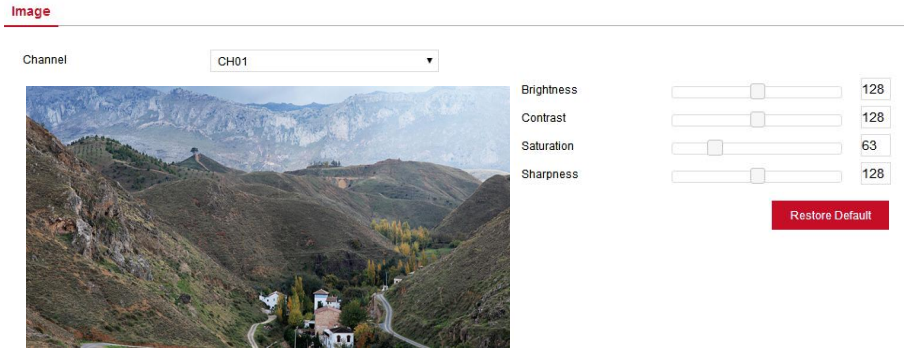


Figure 6-8

### 6.5.2.4 Motion Detection

In the main interface, click " Configuration → Camera → Motion Detection" to enter the motion detection setting interface, as shown in Figure 6-9. Here you can view and set the device's motion detection related information, the relevant parameters are consistent with the XVR-side settings.



## Motion Detection

Channel

CH01



Draw Area

Clear All

☐ Enable

Sensitivity

Middle



☐ Buzzer Alarm

Buzzer Time(Sec)

5

☐ Record channel

Record Time(Sec)

60

☐ Send E-mail

Week

Mon.



☒ Time Period1

0 : 0 ~ 24 : 0

☐ Time Period2

0 : 0 ~ 0 : 0

☐ Linkage

Alarm Out

☐ 1 ☐ 2 ☐ 3 ☐ 4

Figure 6-9

### 6.5.2.5 Video Loss

In the main interface, click "Configuration → Camera → Video Loss" to enter the video loss setting interface, as shown in Figure 6-10. Here you can set the channel when the channel video is lost when the device to make the



appropriate alarm mode, the relevant parameters are consistent with the XVR-side settings.

Video Loss

Channel

CH01

☐ Select All

☐ Enable

☐ Screen Display

☐ Send E-mail

☐ Buzzer Alarm

Alarm Out

☐ 1 ☐ 2 ☐ 3 ☐ 4

Figure 6-10



Caution

- The current video loss feature only supports setting up the added analog device.

6.5.2.6 PTZ Setup

In the main interface, click "Configuration → Camera → PTZ Setup" to enter the video PTZ Setup interface, as shown in Figure 6-11. Here you can view and set the information about the PTZ control for each channel, the relevant parameters are consistent with the XVR-side settings.



## PTZ

Channel	CH01	▼
Protocol	UTC-B	▼
Address	0	
Baud Rate	2400	▼
Data Bit	8	▼
Stop Bit	1	▼
Check	NONE	▼

Figure 6-11

### 6.5.2.7 Volume

The volume screen is used to view and adjust the volume of each channel.

**The steps are as follows:**

**Step 1:** In the main interface, click "Configuration → Camera → Volume" to enter the volume setting interface, as shown in Figure 6-12.

**Step 2:** Select the configuration channel, check the mute check box or slide the slider of the volume to adjust the size of the audio output.

**Step 3:** Click "Save".

## Volume

Channel	CH01	▼
<input checked="" type="checkbox"/> Mute		
Output Gain	<input type="range"/>	88
<input type="button" value="Save"/>		

Figure 6-12

### 6.5.2.8 Privacy Mask

In the main interface, click "Configuration → Camera → Privacy Mask" to enter the privacy mask setting interface, as shown in Figure 6-13. Here you can view and set the privacy of the channel area settings and other related



information, the relevant parameters are consistent with the XVR-side settings.

**Privacy Mask**

---

Channel

CH01



- ☐ Private Masking1
- ☐ Private Masking2
- ☐ Private Masking3

Save

Figure 6-13

**6.5.2.9 Channel Name**

In the main interface, click "Configuration → Camera → Channel Name" to enter the channel name setting interface, as shown in Figure 6-14. Here you can view and set the channel names, the relevant parameters are consistent with the XVR-side settings.



## Channel Name

CH1	<input type="text" value="CH1"/>
CH2	<input type="text" value="CH2"/>
CH3	<input type="text" value="CH3"/>
CH4	<input type="text" value="CH4"/>
CH5	<input type="text" value="CH5"/>
CH6	<input type="text" value="CH6"/>
CH7	<input type="text" value="CH7"/>
CH8	<input type="text" value="CH8"/>
CH9	<input type="text" value="CH9"/>
CH10	<input type="text" value="CH10"/>
CH11	<input type="text" value="CH11"/>
CH12	<input type="text" value="CH12"/>
CH13	<input type="text" value="CH13"/>
CH14	<input type="text" value="CH14"/>

Figure 6-14

### 6.5.2.10 Intelligent

In the main interface, click "Configuration → Camera → Intelligent" to enter the intelligent setting interface, as shown in Figure 6-15. Here you can view and configure the intelligent detection parameters of each channel. The related configuration is consistent with the XVR local-side intelligent detection setting.



---

Channel	CH01	▼
---------	------	---

<input checked="" type="checkbox"/> Open		
<input checked="" type="checkbox"/> Buzzer Alarm	<input type="checkbox"/> Send E-mail	
<input checked="" type="checkbox"/> Sign positioning	<input checked="" type="checkbox"/> Face detection	
Sensitivity	Middle	▼

Week	Mon.	▼					
<input checked="" type="checkbox"/> Time Period1	0	:	0	~	24	:	0
<input type="checkbox"/> Time Period2	0	:	0	~	0	:	0

Figure 6-15


### 6.5.2.11 Face Comparison

The face comparison consists of face comparison and face database management.

#### ■ Face Comparison















In the main interface, click " Configuration → Camera → Face Comparison" to enter the face comparison setting interface, as shown in Figure 6-16. Here you can view and configure the face matching parameters of each channel, the relevant parameters are consistent with the XVR-side settings.



Channel CH01 ☐ Enable

Processing Method



<input type="checkbox"/> Enable 	Library Name 	Mode 	Edit 
<input type="checkbox"/>	w2	Blacklist 	 86
<input checked="" type="checkbox"/>	3	Blacklist 	 86
<input checked="" type="checkbox"/>	1	Whitelist 	 86
<input type="checkbox"/>	123	Blacklist 	 70
<input type="checkbox"/>	test	Blacklist 	 0

 Save

Figure 6-16

## ■ Face Database

Face database is used to store face images. It exists in multiple face libraries. Here you can add, delete, edit face libraries and face images.

### ➤ Add face database

**Step 1:** In the main interface, click "Configuration → Camera → Face Comparison → Face Database" to enter the face database management interface, as shown in Figure 6-17.



Library Name ▲	Number ↕	Event	Del
1	6		
123	2		
3	55		
test	6		
w2	1		

Add

Total Capacity / Residual Capacity: 512M/506M

Face Library Details

No. ▲	Name ↕	Del
1	1	
2	2	

Add

Face Template





Figure 6-17

**Step 2:** Click (Add below the face library list) "Add" and enter a name.

**Step 3:** Click "OK" to add a new face database to the face database list.


### ➤ Delete face database

**Step 1:** In the main interface, click "Configuration → Camera → Face Comparison → Face Database" to enter the face database management interface.

**Step 2:** Select the face database in the list and click "".

### ➤ View face database

**Step 1:** In the main interface, click "Configuration → Camera → Face Comparison → Face Database" to enter the face database management interface.

**Step 2:** Select the face database and click "" to view all the picture numbers of the face database in the face database detailed information list.



The face template display selects the picture content, as shown in Figure 6-17 above..

➤ **Add face to face library**

The XVR webpage face database import image has two ways of importing local images and importing images.

✓ **Local image import specific steps:**

**Step 1:** In the main interface, click "Configuration → Camera → Face Comparison → Face Database" to enter the face database management interface.

**Step 2:** Select the face database, click "Add (below the face database details table) → Face Library Upload → Browse", select the upload image "Open", as shown in Figure 6-18:

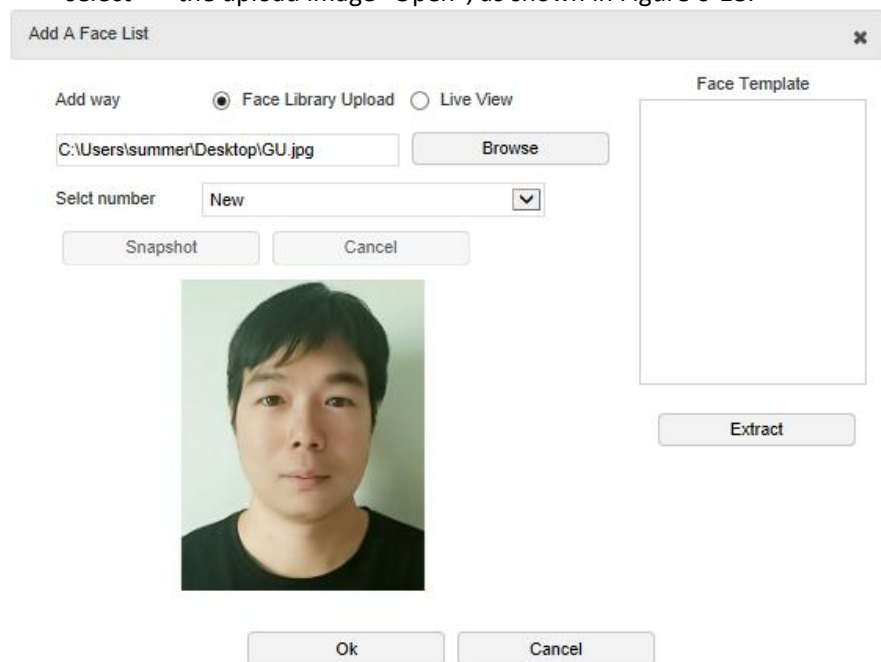


Figure 6-18

**Step 3:** Select the number and click "Extract" Face Template, as shown in Figure 6-19.



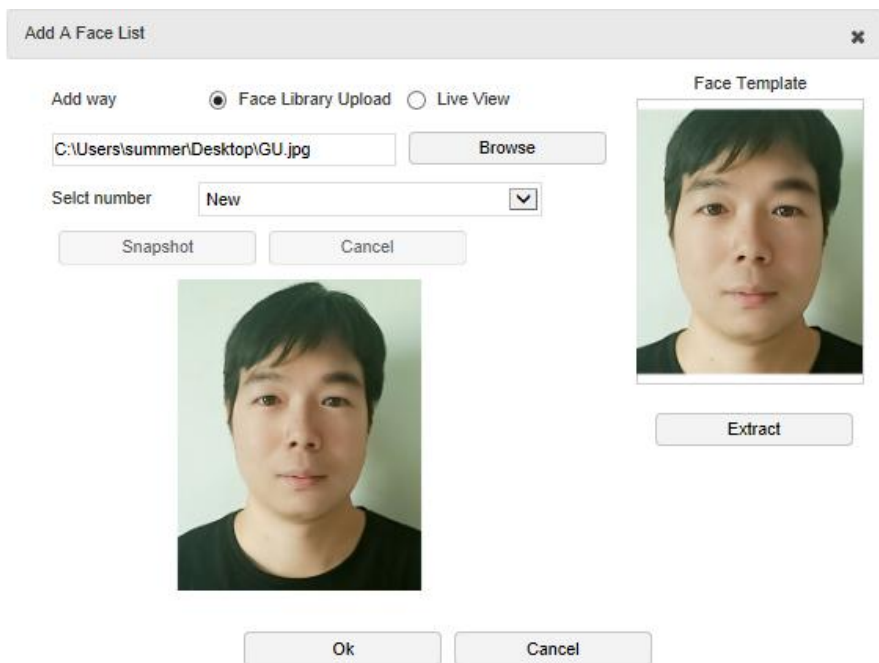


Figure 6-19

**Step 4:** Click "OK" to add the picture to the face database, as shown in Figure 6-20.










Library Name ▲	Number ◇	Event	Del
1	6		
123	2		
3	55		
test	6		
w2	1		

Add

Total Capacity / Residual Capacity: 512M/506M

Face Library Details

No. ▲	Name ◇	Del
1	1	
2	3	
3	2	
4	4	
5	5	
6	6	
7	7	

Add

Face Template



Figure 6-20

✓ **Take the picture import specific steps:**

**Step 1:** In the main interface, click "Configuration → Camera → Face Comparison → Face Database" to enter the face database management interface.

**Step 2:** Select the face database, click "Add (below the face database details table) → Live View", select the channel, click "Snapshot → Extract", as shown in Figure 6-21.















Figure 6-21

**Step 4:** Click "OK" to add the picture to the face database, as shown in Figure 6-22.










Library Name ▲	Number ⇅	Event	Del
1		6	 
123		2	 
3		55	 
test		7	 
w2		1	 

Add

Total Capacity / Residual Capacity: 512M/506M

Face Library Details

No. ▲	Name ⇅	Del
1		
2		
3		
4		
5		
6		
7		

Add

Face Template





Figure 6-22

✓ **Delete face library picture:**

In the face library details list, select the picture and click " → OK" to delete the picture from the current face database.

**Notice**

- The XVR web page can only import one image to the face database at a time.
- Import images must be less than 200k.

**6.5.2.12 IPEYE**

In the main interface, click " Configuration→ Camera → IPEYE" to enter the IPEYE setting interface, as shown in Figure 6-23. Here you can enable /



disable the IPEYE function of each channel of XVR, the relevant parameters are consistent with the XVR-side settings.

Live View

Playback

Picture

Configuration

IPEYE

Channel

CH01

IPEYE Client

http://172.18.193.94:8282

Enable

☒

IPEYE only supports H264 encoding

Save

Figure 6-23



Notice

- Only the channels connected to H264 video are displayed in the channel options.

### 6.5.3 Record

#### 6.5.3.1 Record

The steps are as follows:

**Step 1:** In the main interface, click " Configuration→ Record → Record " to enter the record setting interface, as shown in Figure 6-24.



## Record

Channel

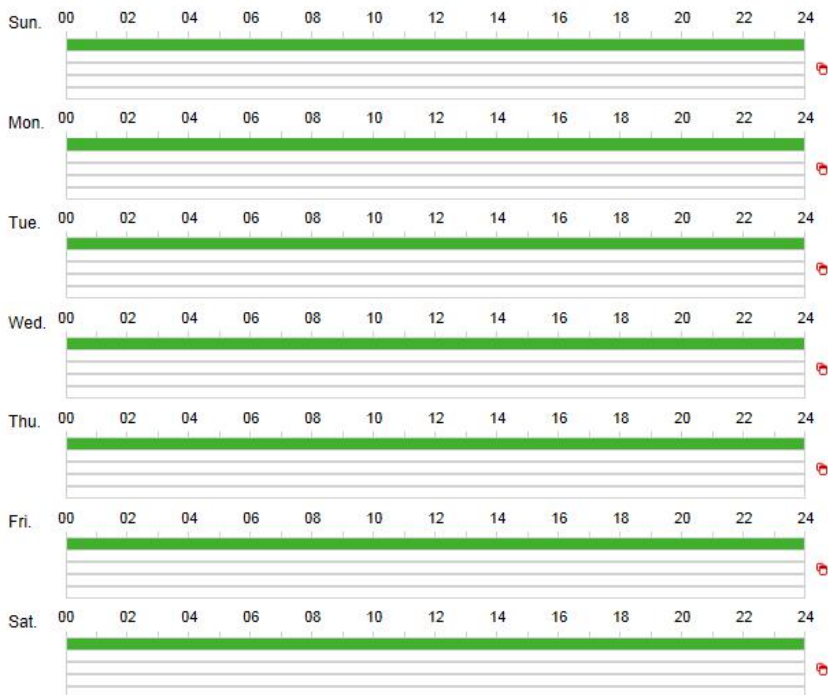
CH01



Del

Delete All

Select All



■ Record 
 ■ Motion Detection 
 ■ Alarm 
 ■ Motion Detection&Alarm 
 ■ Intelligent Alarm

More settings

Save

Figure 6-24

**Step 2:** Set the parameters as detailed in the table below.

Parameter	Description
Channel	Select the channel number for setting the recording, and set a different recording schedule for each channel.
Del	Delete the selected recording time period.
Delete All	Click to delete all recording settings.
Selected All	Click to set all channels to play regular video and all other alarm recordings from Monday to Sunday 24 hours a day.



Copy to	After you set a day, you can click "Copy to" to apply the day's settings to other times of the week.
Time period setting	Click one of the set recording time periods, pop up the time period setting, select the recording type, set the time period, and click "Save" to complete the setting. When you click "Del", the selected time period is deleted.
More Settings	Click to enter the pre-record setting interface, set the pre-recorded action status 0 seconds to 30 seconds before the recording, click "Ok". Click to enter the prerecord times (S) setting interface, select the prerecord time (the default is 5S, there are "0, 5, 10, 15, 20, 25, 30" option), click "OK" to save the settings.

Table 6-4

**Step 3:** Click "Save".

#### 6.5.3.2 Encode

In the main interface, click " Configuration→ Record → Encode" to enter the encode setting interface, as shown in Figure 6-25 below. Here you can view and set the channel access device encoding parameter values, the relevant parameters are consistent with the XVR-side settings.



## Encode

Channel	CH01
Preview information	NO VIDEO
Encode Level	Main Profile
H265+	Off
Encode Format	Main Stream
Encode Type	H265
Watermark	<input type="checkbox"/>
Watermark string	CAMERA01

### Main Stream

Encode Mode	A/V
Resolution	3MP
Stream Control	VBR
I-Frame Interval	<input type="text" value="2"/>
Quality	Good
Frame Rate	<input type="text" value="6"/>
Bitrate(Kb/s)	986

Save

Figure 6-25



### Caution

- The watermark is used to prevent the video of the analog channel from being tampered with. Check the "Watermark" and set the "Watermark string". Then the "HSPlayer" player can query the information with watermark recording.



## 6.5.4 HDD

In the main interface, click "Configuration → HDD → HDD" to enter the disk management interface, as shown in Figure 6-26. Here you can view the connection device disk information, but also format the hard disk, hard disk format and XVR settings consistent.

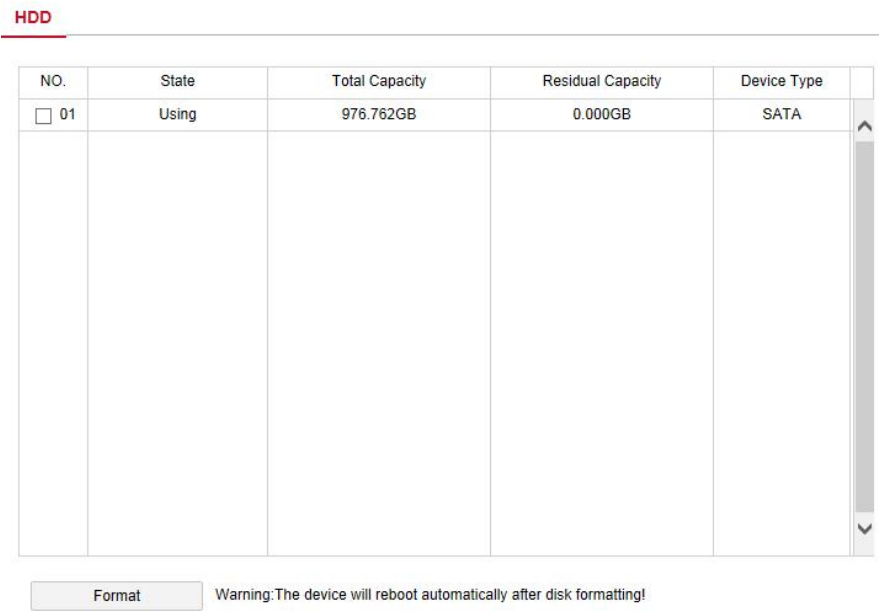


Figure 6-26

## 6.5.5 System

### 6.5.5.1 General

#### ■ Device Setting

In the main interface, click "Configuration → System → General → Device Setting" to enter the device setting interface, as shown in Figure 6-27. Here you can view and set the device's language, record mode, record days, resolution and other information, and click "Save" to complete the configuration.



Device Setting	Date	Dst
Language	English	▼
Record Mode	Overwrite	▼
Record Days	No Limit	▼
Video Standard	PAL	▼
Resolution	1280x1024	▼
Standby Time(Min)	0	
Device Name	XVR	

**Save**

Figure 6-27

## ■ Date

Set the system date of the device, and manually set the system time, synchronize with the computer, or set the system date using the Network Time Protocol (NTP) function as required.

### Set the system date as follows:

**Step 1:** In the main interface, click "Configuration → System → General → Date" to enter the date setting interface, as shown in Figure 6-28 below.

**Step 2:** Select the setting date type, there are the following three ways.

- ✓ Turn on the Set date/time manually; manually select the date and time, click "Save", the system automatically synchronizes with the manual setting time.
- ✓ Turn on synchronization with the computer, click "Save", the system automatically synchronizes the time to the computer that logs in to the WEB page.
- ✓ Turn on the Receive date/time from NTP, select NTP server (or select custom server, enter custom server domain name), select the device's time zone, enter NTP port, set NTP interval, date format, date separator, time format, single Click "Save" to synchronize the system time with the NTP server time.

**The date setting parameters are described in the following table:**

Parameter	Description
NTP Server	Select the server domain name where the NTP



	service is installed.
Custom NTP server	When the NTP server selects "Custom", enter the NTP server domain name.
NTP Port	Enter NTP server port.
Date Format	Set the date display format for XVR devices, including year, month, day, day and month.
Time Format	Set the time format of XVR devices, including 24-hour and 12-hour.
Date Separator	Set the separator between year, month, and day.
Time Zone	Set the time zone of the XVR device.
Channel Check Time	Select the XVR channel.

Table 6-5

**Set the channel check time as follows:**

**Step 1:** In the main interface, click "Configuration → System → General → Date" to enter the date setting interface.

**Step 2:** Select the channel you want to use, or select "All" and click "Save" to complete the configuration.

Device Setting
Date
Dst

Time Zone
GMT+00:00 Dublin, Edinburgh, Lisbon, London, Monrovia, Cas

☒ Set date/time manually

Date/Time
2019-10-14 15 44 55

☐ Synchronize with the computer
2019/10/14 15:42:30

☐ Receive date/time form NTP

NTP Server
time.nist.gov

NTP Port
123

NTP Interval(Min)
10

Date Format
Year Month Day

Date Separator
.

Time Format
24Hour

Channel Check Time
☐ Select All

☒ CH01 ☒ CH02 ☒ CH03 ☒ CH04 ☒ CH05 ☒ CH06 ☒ CH07 ☒ CH08 ☒ CH09 ☒ CH10 ☒ CH11 ☒ CH12 ☒ CH13 ☒ CH14 ☒ CH15 ☒ CH16 ☒ CH17 ☒ CH18 ☒ CH19 ☒ CH20 ☒ CH21 ☒ CH22 ☒ CH23 ☒ CH24 ☒ CH25 ☒ CH26 ☒ CH27 ☒ CH28 ☒ CH29 ☒ CH30 ☒ CH31 ☒ CH32

Interval (Min)
60

Save

Figure 6-28



## ■ Dst

**Set the Dst as follow:**

**Step 1:** In the main interface, click "Configuration → System → General → Dst" to enter the Dst setting interface, as shown in Figure 6-29 below.

**Step 2:** Turn on daylight saving time, set the type, start time, end time, and offset.→

**Step 3:** Click "Save".

Device Setting      Date      **Dst**

☐ Daylight-saving time

Type      Week      ▼

Start Time      Mar.      ▼      1st      ▼      Sun.      ▼      03      ▼      03      ▼

End Time      Nov.      ▼      1st      ▼      Sun.      ▼      03      ▼      03      ▼

Offset(Min)      60      ▼

**Save**

Figure 6-29

## 6.5.5.2 Network

### ■ IP/Port

In the main interface, click "Configuration → System → Network → IP/Port" to enter the IP/Port setting interface, as shown in Figure 6-30. Here you can set the IP address of the device, subnet mask, gateway, port, DNS and other network information, IP / Port and XVR settings consistent.



IP/Port

DDNS

Email

P2P

NIC Settings

Enable DHCP ☐

IP Address

172.18.195.252

Network Mask

255.255.248.0

Gateway

172.18.192.1

TCP Port

5000

RTSP Port

554

HTTP Port

80

Private port

6000

Device MAC

11:22:33:44:55:66

Broadcast IP

0.0.0.0

DNS

Primary DNS

202.96.134.133

Secondary DNS

8.8.8.8

Other setting

RTSP encryption enable ☐

Save

Figure 6-30

## ■ DDNS

In the main interface, click "Configure → System → Network → DDNS" to enter the DDNS setting interface, as shown in Figure 6-31. Here you can open and set the DDNS function, the relevant setting are consistent with the XVR-side settings.



IP/Port	DDNS	Email	P2P
DDNS			
Enable DDNS	<input type="checkbox"/>		
DDNS Type	ORAY ▼		
Refresh Time(Sec)	60		
User Name			
Password			
Domain			

Figure 6-31

## ■ Email

In the main interface, click "Configure → System → Network → Email" to enter the email setting interface, as shown in Figure 6-32. Here you can open and set the mail function, the relevant parameters are consistent with the XVR-side settings.



☐ Enable e-mail alarm notifications

SMTP Server Custom ▼

Custom SMTP Server smtp.MailServer.com

Sender User

Sender's Address User@domain.com

Port 465

☐ Attach File

Subject XVR ALERT

Message Interval(Min) 1

Encryption SSL ▼

User Name User

Password .....

Confirm .....

Select Receivers Recipient1 ▼

Recipient receiver1@domain.com

Test

Time Period1 0 : 0 ~ 24 : 0

Time Period2 0 : 0 ~ 0 : 0

☐ Enable Auto Email

Email Interval(min) 10

Figure 6-32

## ■ P2P


In the main interface, click "Configure → System → Network → P2P" to enter the P2P setting interface, as shown in Figure 6-33. Here you can enable/disable P2P function, view the device serial number, scan the corresponding mobile phone system QR code to download the app, the P2P are consistent with the XVR-side settings.





IP/Port	DDNS	Email	<b>P2P</b>	FTP
---------	------	-------	------------	-----

---

☒ **BitVision**

  
1000000000041

  
Android

  
IOS

Status:

Encryption

Figure 6-33

#### ■ FTP

In the main interface, click "Configure → System → Network → FTP" to enter the FTP setting interface, as shown in Figure 6-34. Here you can open and set the FTP server function, the relevant parameters are consistent with the XVR-side settings.



FTP

☐ Enable FTP

FTP Server

0.0.0.0

Test

Port

21

User Name

Password

Confirm

File Upload

Channel

CH01

Week

Mon.

Time Period1 ☐

0 : 0 ~ 0 : 0

Time Period2 ☐

0 : 0 ~ 0 : 0

Save

Figure 6-34

## ■ UPnP

In the main interface, click "Configure → System → Network → UPnP" to enter the UPnP setting interface, as shown in Figure 6-35. Here you can turn on and set UPnP function, the relevant parameters are consistent with the XVR-side settings.



IP/Port

DDNS

Email

P2P

FTP

UPnP

☐ Enable

State

Internal IP

External IP

Port Mapping Table

<input type="checkbox"/>	Index	Server Name	Protocol	Internal Port	External Port	

Add

Del

Figure 6-35

## ■ Cloud Storage

In the main interface, click "Configuration → System → Network → Cloud Storage" to enter the Cloud Storage setting interface, as shown in Figure 6-36. Here you can turn on and set Cloud Storage function, the relevant parameters are consistent with the XVR-side settings.



IP/Port

DDNS

Email

P2P

FTP

UPnP

Cloud Storage

Cloud Storage

☐ Enable

☐ Dropbox

Bind

☐ Google

Bind

Cloud Web

Verification Code

Test

Upload Folder

event picture

User Name	Capacity	Used
	0.00MB	0.00MB

Save

Figure 6-36

■ IP Filter

In the main interface, click "Configuration → System → Network → IP Filter" to enter the IP filter setting interface, as shown in Figure 6-37. Here you can limit the login to the web client by setting a black and white list, the relevant parameters are consistent with the XVR-side settings.

IP/Port

DDNS

Email

P2P

FTP

UPnP

Cloud Storage

IP filter

Type

Blacklist

☐ Enable

Add

Del

<input type="checkbox"/> Select All	IP Address	Device MAC	State
<input type="checkbox"/>	<div>0.1.0.0</div>	<div>11:11:11:11:11:11</div>	<div>Enable</div>

Save

Figure 6-37

6.5.5.3 Exception

In the main interface, click "Configuration → System → Exception" to enter the exception setting interface, as shown in Figure 6-37. Here you can set the



**Exception**

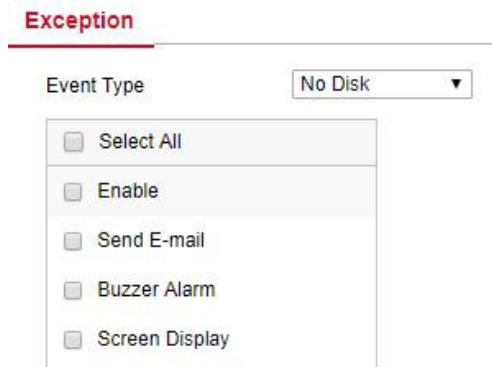


Figure 6-38

#### 6.5.5.4 User

In the main interface, click "Configuration → System → User" to enter the user management interface, as shown in Figure 6-39. Here you can add, delete, edit the user, the relevant parameters are consistent with the XVR-side settings.

## User Management

[illegible]

Figure 6-39

### 6.5.5.5 Channel Config

In the main interface, click "Configure → System → Channel Config" to enter the channel configuration interface, as shown in Figure 6-40. Here you can



select the device access signal, the relevant parameters are consistent with the XVR-side settings.

Channel Config

CH	HD	IP
CH1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CH2	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CH3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CH4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CH5	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CH6	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CH7	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CH8	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CH9	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CH10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CH11	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CH12	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CH13	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CH14	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Lite mode

Disable

Save

Figure 6-40

6.5.5.6 Local Alarm

The local alarm is used for the external input/output alarm device. After the alarm input device triggers the alarm, the alarm signal is transmitted to the XVR through the alarm input port, and the system and the alarm output device are linked to the alarm. The local alarm consists of an alarm input and an alarm output.

■ Alarm Input

In the main interface, click "Configure → System → Local Alarm → Alarm Input" to enter the alarm input interface, as shown in Figure 6-41. Here you



can start the alarm and make the relevant configuration, the relevant parameters are consistent with the XVR-side settings.

Alarm Input

Alarm Out

☐ Enable

Alarm Input

1

Alarm Name

alarm\_in1

Week

Mon.

☐ Time Period1

0

:

0

~

0

:

0

☐ Time Period2

0

:

0

~

0

:

0

Alarm Out

☐ 1☐ 2☐ 3☐ 4

☐ Screen Display

☒ Send E-mail

☒ Buzzer Alarm

Linkage

CH03

Save

Figure 6-41

■ Alarm Output

In the main interface, click "Configure → System → Local Alarm → Alarm Output" to enter the alarm output interface, as shown in Figure 6-42. Here you can start the alarm and make the relevant configuration, the relevant parameters are consistent with the XVR-side settings.



Alarm Input

Alarm Out

☐ Enable

Alarm Out
 

1

Week
 

Mon.

☒ Time Period1
 

0 : 0 ~ 21 : 0

☐ Time Period2
 

0 : 0 ~ 0 : 0

Save

Figure 6-42

## 6.5.6 Maintain

### 6.5.6.1 Version Info

In the main interface, click "Configure → Maintain → Version Info" to enter the version information interface, as shown in Figure 6-43. Here you can see information about the device version.

Version Info

Device Name:

Digital Video Recorder

Model No.:

16-CHANNEL

Version:

XVR\_3531D\_6158C\_16\_BD\_X1\_v9.1.38.4

Date:

Sep 19 2019 10:33:45

WEB Version:

9.1.38.190918

Plugin Version:


9.1.36.1


Figure 6-43


### 6.5.6.2 Log

In the main interface, click "Configure → Maintain → Log" to enter the log interface, as shown in Figure 6-44. Here you can search, empty and export logs to the PC side, log search is consistent with XVR search.



Type  

Start Time  

End Time  

No.	Time	Event	User Name
1	2019/10/14-17:45:44	Motion Detection Start	system
2	2019/10/14-17:45:43	Motion Detection Start	system
3	2019/10/14-17:45:37	Motion Detection Start	system
4	2019/10/14-17:45:36	Motion Detection Start	system
5	2019/10/14-17:45:30	Motion Detection Start	system
6	2019/10/14-17:45:28	Motion Detection Start	system
7	2019/10/14-17:45:23	Motion Detection Start	system
8	2019/10/14-17:45:21	Motion Detection Start	system
9	2019/10/14-17:45:16	Motion Detection Start	system
10	2019/10/14-17:45:14	Motion Detection Start	system
11	2019/10/14-17:45:09	Motion Detection Start	system
12	2019/10/14-17:45:07	Motion Detection Start	system
13	2019/10/14-17:45:02	Motion Detection Start	system
14	2019/10/14-17:45:00	Motion Detection Start	system

Figure 6-44

### 6.4.6.3 Manual Upgrade

In the manual upgrade interface, you can reboot and upgrade your device.

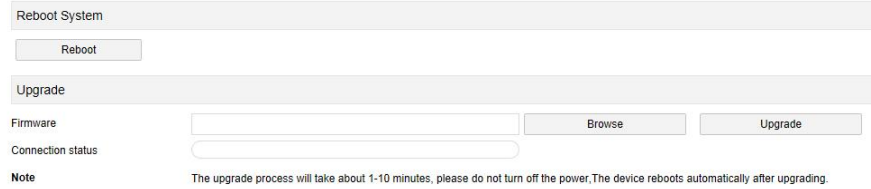
**The device system restart and upgrade steps are as follows:**

**Step 1:** In the main interface, click "Configuration → Maintain → Manual Upgrade" to enter the manual upgrade interface, as shown in Figure 6-45.

**Step 2:**

- ✓ **System restart:** Click "Restart → OK", WEB enters the device restart interface, wait for the device to restart, enter the login interface and log in again.
- ✓ **System upgrade:** Click "Browse" to open the folder where the device upgrade file is located, select the upgrade file, click "Upgrade", the device starts to upgrade, and the WEB enters the device upgrade interface. After the device is upgraded and restarted, log in to the login page.





Reboot System

Reboot

Upgrade

Firmware

Connection status

Browse Upgrade

Note The upgrade process will take about 1-10 minutes, please do not turn off the power. The device reboots automatically after upgrading.

Figure 6-45

#### 6.5.6.4 Auto Maintain

In the main interface, click "Configuration → Maintain → Auto Maintain" to enter the auto maintain interface, as shown in Figure 6-46. Here you can set the device reboot time, the auto maintenance settings and XVR settings consistent.

#### Auto Maintain



Every Week  Wed.  03  Hour 03  Min

Save

Figure 6-46

#### 6.5.6.5 Restore Default

Set the restore default to restore the device default parameters to the factory defaults.

**The default steps to restore are as follows:**

**Step 1:** In the main interface, click "Configuration → Maintain → Restore Default" to enter the restore default interface, as shown in Figure 6-47.

**Step 2:** Select the parameters you want to restore, such as "Record".

**Step 3:** Click "Save" and the selected parameters are restored to the factory defaults.



## Restore Default

Restore Default

Record

Record

Camera

Camera

System

System

Maintain

Maintain

Restore Factory Setting

☐ Restore Factory Setting

Save

Figure 6-47

## 6.6 Playback

In the main interface, click “Playback” to enter the playback interface, as shown in Figure 6-48. Here you can view the equipment, video capture, download and other actions, video query and XVR side of the same set.

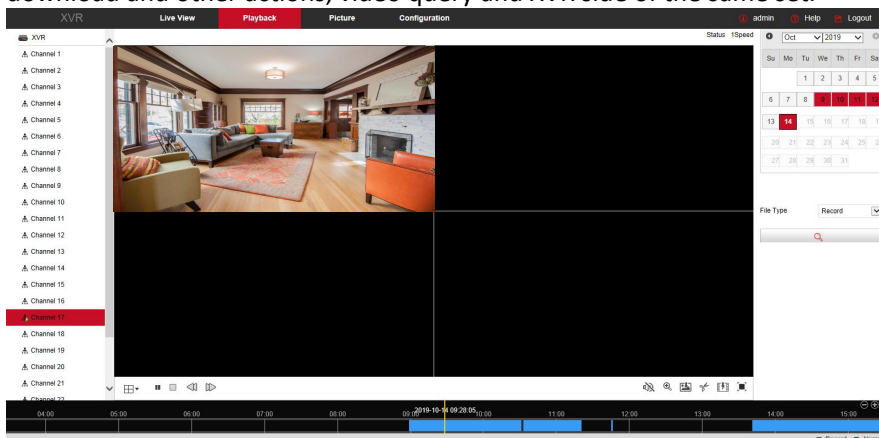

















Figure 6-48

- **Timeline:** Displays the type of recording under the current conditions and the time period in which it is located. In the four-picture playback mode, four playback time axes corresponding to the selected four channels can be displayed. In the other single-screen playback modes, only one time axis is displayed. Use the mouse to click a point in the



blue area and drag to the yellow line position, that is, playback from that point in time.

- **Layout:** Click " /  to toggle the video playback window.
- **Play/Pause:** After querying the video file, click " /  to start / pause playback of the searched video.
- **Stop:** When the video is played, press " to stop playing the video.
- **Slow forward:** When the video is played, click " " video will play slowly, the specific speed of choice 1/2, 1/4, 1/8. After switching, you can check the current playback speed in the current status of the upper right corner of the preview interface.
- **Fast forward:** When the video is played, click " " video will be slow to play, the specific speed of choice 2, 4, 8. After switching, you can check the current playback speed in the current status of the upper right corner of the preview interface.
- **Mute/Open the sound:** When the video is played, click " /  " to turn on / off the sound of the recorded video.
- **Enable Electronic Zoom:** When the video is played, click " /  " to turn on / off the electronic zoom function of the recorded video. Turn on the electronic zoom function, hold down the left mouse button, select the position to zoom in on the playback screen, release the mouse, select the location screen is placed, click " ", the magnification screen is restored.
- **Snapshot:** When the video is played, click " " to capture the settings to the local configuration settings.
- **clip:** When the video is played, click " " to start recording, and then click Save Clip File again, which is stored in the local configuration settings.
- **Download:** After querying the video file, click " " to enter the video file list, select the download file, click "Download", the video file starts to download in order, stored in the local configuration settings location. The file download interface is shown in Figure 6-49. The "First Page", "Prev Page", "Next Page" and "Last Page" are used to scroll through all



video files. The video file can be re-searched by the right calendar, file type, and channel location.

Download File

<input type="checkbox"/>	Index	File Name	Start Time	Stop Time	File Size	Set datetime manually	Progress
<input type="checkbox"/>	1	record_0000_0016_20191014095840_20191014095840.avi	2019-10-14 08:58:40	2019-10-14 09:58:40	1101.802 MB	Edit	
<input type="checkbox"/>	2	record_0000_0016_20191014095840_20191014103133.avi	2019-10-14 09:58:40	2019-10-14 10:31:33	603.849 MB	Edit	
<input type="checkbox"/>	3	record_0000_0016_20191014103200_20191014103207.avi	2019-10-14 10:32:00	2019-10-14 10:32:07	2.142 MB	Edit	
<input type="checkbox"/>	4	record_0000_0016_20191014103307_20191014112019.avi	2019-10-14 10:33:07	2019-10-14 11:20:19	866.751 MB	Edit	
<input type="checkbox"/>	5	record_0000_0016_20191014112038_20191014112040.avi	2019-10-14 11:20:38	2019-10-14 11:20:40	0.612 MB	Edit	
<input type="checkbox"/>	6	record_0000_0016_20191014114524_20191014114549.avi	2019-10-14 11:45:24	2019-10-14 11:46:49	26.015 MB	Edit	
<input type="checkbox"/>	7	record_0000_0016_20191014134108_20191014144108.avi	2019-10-14 13:41:08	2019-10-14 14:41:08	1101.802 MB	Edit	
<input type="checkbox"/>	8	record_0000_0016_20191014144108_20191014154108.avi	2019-10-14 14:41:08	2019-10-14 15:41:08	1101.802 MB	Edit	
<input type="checkbox"/>	9	record_0000_0016_20191014154108_20191014164108.avi	2019-10-14 15:41:08	2019-10-14 16:41:08	1101.802 MB	Edit	
<input type="checkbox"/>	10	record_0000_0016_20191014164108_20191014173653.avi	2019-10-14 16:41:08	2019-10-14 17:36:53	1023.757 MB	Edit	

Oct 2019

Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
			5	6	7	8
			9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		


File Type: Record  
Channel: 17

Open Folder

Download

Total 10 items First Page Prev Page 1/1 Next Page Last Page

Figure 6-49

- **Full Screen:** When the video is played, click “” the full-screen playback video. Press "Esc" on the keyboard to exit the full-screen playback interface.
- **Drag and drop:** the video playback, the left mouse button click on the time axis to play the position, drag left and right, drag it to the middle of the yellow time point position, playback channel to play the point in time recording.

## 6.6 Picture

In the picture interface, you can view and download all the pictures on the device side through the event type and face comparison.

### 6.7.1 Search by Event Type

The steps to search and download images are as follows:

**Step 1:** In the main interface, click "Picture" to enter the picture interface, as shown in Figure 6-50.



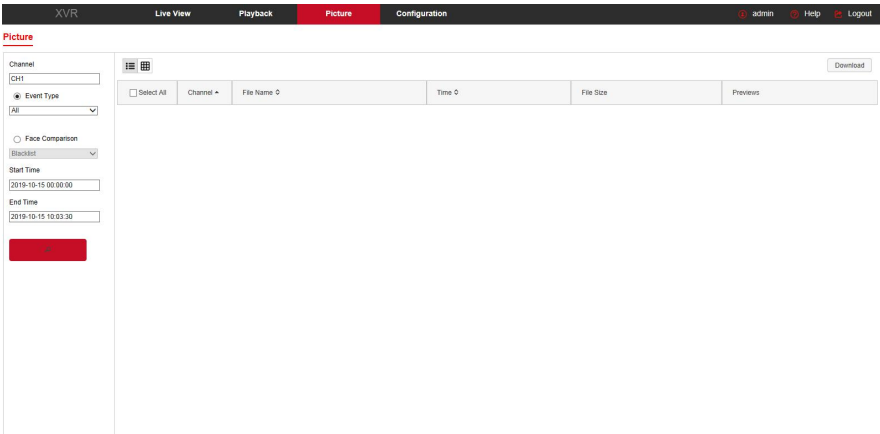


Figure 6-50

**Step 2:** Select the channel, click "OK".

**Step 3:** Click " " and the searched image will be displayed on the right side of the interface, as shown in Figure 6-51.

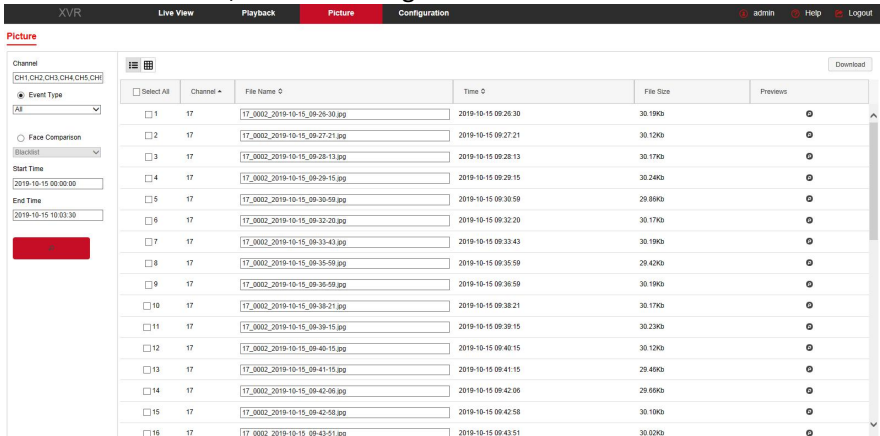


Figure 6-51

**Step 4:** Select the image, click "Download" to select the storage path, click "OK", select the image to download to the specified folder.


## 6.7.2 Search by Face Comparison

The steps to search and download images are as follows:



**Step 1:** In the main interface, click "Picture" to enter the picture interface.



**Step 2:** Select the channel, click "OK", select the face comparison and comparison type (Blacklist, Whitelist, Black or White list, Face Library Upload, Face Template), set the search time range.

**Step 3:** Click " " and the searched image will be displayed on the right side of the interface.

**Step 4:** Select the image, click "Download" to select the storage path, click "OK", select the image to download to the specified folder.

- **Channel:** Select the channel to which you want to search for image files. You can select one channel individually or multiple channels or "Select All" at the same time.
- **Event Type:** Capture image type, drop-down box options consist of All, Manual capture and Motion detection.
- **Face Comparison:** For comparison types, the drop-down box options consist of a Blacklist, a Whitelist, Black or White List, Face Library Upload, and Face Template.
- **Start / End Time:** The time range for capturing image files.
- **Search:** Click " ", the system will query the corresponding picture file according to the set channel, event type and time range, and display it in the file list.
- **Details:** The image searched by clicking " " is displayed in the list as detailed information, as shown in Figure 6-52 below:





















 						Download	
<input type="checkbox"/> Select All	Channel	File Name	Time	File Size	Previews		
<input type="checkbox"/> 1	17	17_0002_2019-10-15_09-29-30.jpg	2019-10-15 09:29:30	30.19Kb			
<input type="checkbox"/> 2	17	17_0002_2019-10-15_09-27-21.jpg	2019-10-15 09:27:21	30.12Kb			
<input type="checkbox"/> 3	17	17_0002_2019-10-15_09-28-13.jpg	2019-10-15 09:28:13	30.17Kb			
<input type="checkbox"/> 4	17	17_0002_2019-10-15_09-29-15.jpg	2019-10-15 09:29:15	30.24Kb			
<input type="checkbox"/> 5	17	17_0002_2019-10-15_09-30-59.jpg	2019-10-15 09:30:59	29.89Kb			
<input type="checkbox"/> 6	17	17_0002_2019-10-15_09-32-20.jpg	2019-10-15 09:32:20	30.17Kb			
<input type="checkbox"/> 7	17	17_0002_2019-10-15_09-33-43.jpg	2019-10-15 09:33:43	30.19Kb			
<input type="checkbox"/> 8	17	17_0002_2019-10-15_09-35-59.jpg	2019-10-15 09:35:59	29.42Kb			
<input type="checkbox"/> 9	17	17_0002_2019-10-15_09-36-59.jpg	2019-10-15 09:36:59	30.19Kb			
<input type="checkbox"/> 10	17	17_0002_2019-10-15_09-38-21.jpg	2019-10-15 09:38:21	30.17Kb			
<input type="checkbox"/> 11	17	17_0002_2019-10-15_09-39-15.jpg	2019-10-15 09:39:15	30.23Kb			
<input type="checkbox"/> 12	17	17_0002_2019-10-15_09-40-15.jpg	2019-10-15 09:40:15	30.12Kb			
<input type="checkbox"/> 13	17	17_0002_2019-10-15_09-41-15.jpg	2019-10-15 09:41:15	29.49Kb			
<input type="checkbox"/> 14	17	17_0002_2019-10-15_09-42-06.jpg	2019-10-15 09:42:06	29.66Kb			
<input type="checkbox"/> 15	17	17_0002_2019-10-15_09-42-58.jpg	2019-10-15 09:42:58	30.10Kb			
<input type="checkbox"/> 16	17	17_0002_2019-10-15_09-43-51.jpg	2019-10-15 09:43:51	30.02Kb			

Figure 6-52

- **Picture view:** In the details list, click " " to view the corresponding picture.



- **Big icon:** The image searched by clicking "" is displayed in the list as a large icon, as shown in Figure 6-53 below:

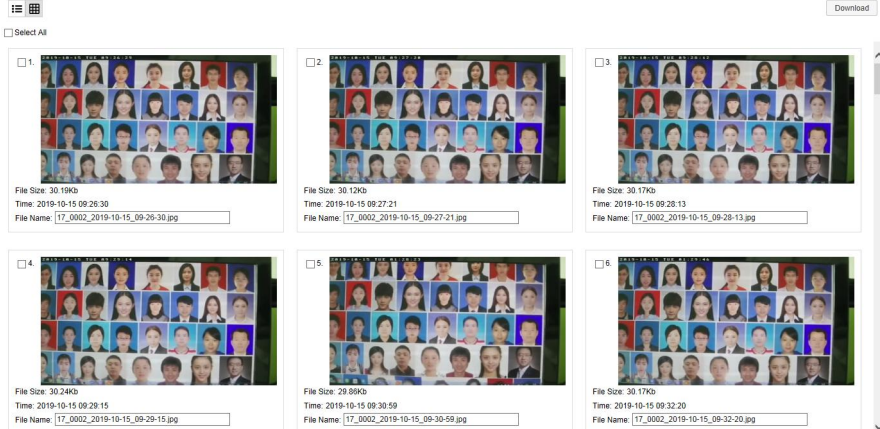


Figure 6-53

- **Download:** Select the picture, click "Download", select the storage path, click "OK", select the picture to download to the specified folder.



## Chapter 7 Appendixes

### 7.1 Q&A

1. How to do when can't detect the hard disk?

**Answer:** If the system does not detect the hard disk, kindly please check the data line and the power line of hard disk whether are connected well, whether there is a problem about the interface of hard disk on the motherboard, or kindly please check hard disk whether is supported by the XVR in specification.

2. After modifying password, what can you do when you forget the password?

**Answer:** When the administrator forget password, kindly please get in touch with our technical staff. The easy to remember and relatively safe password is recommended when you set the password (if you have security needs, kindly please don't try to set simple passwords such as 123).

3. What results will maybe happen due to the heat when XVR is working?

**Answer:** It will produce some heat when XVR is working, kindly please put the XVR in the place where is safe and ventilated to stop the stability and life of the system be affected due to long-term high temperature of XVR.

4. Whether can use if i install the hard disk drive of computer to XVR?

**Answer:** If the hard disk you use can be supported by the system of XVR, it can work, but you need note, if the XVR begins to work, all data in your hard disk will loss.

5. Whether can playback when recording?

**Answer:** Yes.

6. Whether can remove a part of video recordings of hard disk of XVR?

**Answer:** Considering the security of document, you can't remove a part of video recording, if you need remove all video recordings, you can format the hard disk.

7. Why can't login to XVR client?

**Answer:** Kindly please check configuration of network connection whether is right, connection of RJ-45 interface whether is fine, if also can't work, kindly please check whether the user name and password are right.

8. Why can't find any recording information when playback?

**Answer:** Kindly please check whether the connection of data line of hard disk is good, whether the time of system is changed, whether the query condition that is not set to save video files. If also have the question after restarting, kindly please check whether the hard disk is damaged.

### 7.2 Maintenance

1. When XVR shutdowns, kindly please don't turn off the power switch directly, should use the shutdown button of system to avoid data loss or damage of the hard disk.



2. Ensure XVR away from high temperature heat source and place.
3. Remove the dust deposited in the body timing, keep the good ventilation around chassis, it is good for radiating.
4. About the audio/video signal line and RS-485 interfaces, kindly please don't hot swap, or these port will be damaged easily.
5. Check the HDD power cable and data cable of the XVR regularly and look whether they are aging.
6. Avoid the audio/video signal affected by other circuits and devices as much as possible, prevent the hard disk damaged by electrostatic or induced voltage.