Network Video Recorder User Manual

Version 22.3.31.1



Declaration

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Safety Precautions



- Please do not place and install equipment directly under the sunlight ornear heating device.
- Please do not install equipment at moist place or place with dust orsoot.
- Please keep equipment installed horizontally, or install equipment in astable 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 fromleaking.
- Please install the device in a well-ventilated place, do not block thevents of the equipment.
- Please only use equipment within rated input/output.
- Please do not disassemble at liberty.
- Please transport, use and reserve the equipment within allowinghumidity(10%~90%) and temperature(-10 $^{\circ}C$ ~+55 $^{\circ}C$).
- [®] When cleaning the device, unplug the power cord and completely shutoff the power.
- The dust on the circuit board inside the NVR may cause a short circuitafter 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. Thiscan damage the surface coating.
- Please purchase the NVR dedicated hard drive recommended by theequipment manufacturer from the formal channels to ensure the quality and usage requirements of the harddrive.
- 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 5times the cable diameter.
- Make sure that the alarm cable is firmly installed and the contact isgood.
- Make sure that the NVR 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 therated specifications.
- If you connect the product to the Internet at your own risk, including but not limited to products that may be subject to cyberattacks, hacking attacks, virus infections, etc., the company will not be responsible for product abnormality, information leakage, etc., but thecompany will timely to provide you with product-related technical support.



NOTE

- 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.

Contents

Chapter 1 Outline and Feature	5
1.1 Outline	5
1.2 Default	5
1.3 Descriptive content agreement	5
1.4 Function Features	6
Chapter 2 NVR Appearance	. 10
2.1 The Front Panel	. 10
2.1.1 The Front Panel	. 10
2.2 Rear Panel	. 10
2.2.1 General equipment rear panel introduction	. 10
2.2.2 Built-in PoE device rear panel introduction	. 11
2.3 Mouse Description	. 12
2.4 Input Method Introduction	. 13
Chapter 3 Connecting NVR	. 15
3.1 Hard Disk Installation	. 15
3.1.1 Installation tools	. 15
3.1.2 Hard disk installation	. 15
3.2 Device Connection	. 16
Chapter 4 NVR Startup	. 18
4.1 System Initialization	. 18
4.2 Boot wizard	. 19
4.2.1 Quick Startup Wizard	. 19
4.2.2 Forget Password	. 22
4.3 Preview Interface	. 25
4.4 Quick add device	. 26
Chapter 5 NVR Menu	. 29
5.1 Shortcut menu	. 29
5.2 Main Menu	. 30
5.3 Preview	. 31
5.3.1 Channel shortcut menu	. 31
5.3.2 PTZ	. 32
5.3.3 Image Configuration	. 34
5.4 Playback	. 35
5.4.1 Playback channel video	. 35
5.4.2 Playback assistance function	. 39
5.5 Search	. 42
5.5.1 Video	. 42
5.5.2 Smart	. 44

5.5.3 Picture	45
5.5.4 Log	46
5.6 Config	47
5.6.1 Easy Mode	47
5.6.2 Expert Mode	82
5.7 Maintain	146
5.7.1 System Message	146
5.7.2 Device Upgrade	146
5.7.3 Restore Default	149
5.7.4 Automatic Maintenance	150
5.7.5 Import And Export	150
5.7.6 Channel Information	151
Chapter 6 WEB Operation	153
6.1 Internet connection	153
6.2 Browser Login	154
6.3 Active X download, installation	155
6.4 Live View	156
6.5 Playback	158
6.6 Picture	160
6.7 Config	162
6.7.1 System Config	162
6.7.2 NetWork Config	165
6.7.3 Channel Config	170
6.7.4 Event Config	174
6.7.5 Record Manage	180
6.8 Maintain	183
6.8.1 System Message	183
6.8.2 Device Upgrade	184
6.8.3 Restore Default	185
6.8.4 Automatic Maintenance	185
6.8.5 Import And Export	186
6.8.6 Channel Information	187
6.8.7 Log	187
Chapter 7 Appendixes	189
7.1 Q&A	189
7.2 Maintenance	190

Chapter 1 Outline and Feature

1.1 Outline

This product is a new generation of high-performance NVR (Net Video Recorder) independently developed by the company. It adopts several high-tech technologies, such as video and audio codec technology, embedded system technology, storage technology, network technology and intelligent technology. With local preview, video multi-screen split display, local real-time storage of video files, support for mouse shortcuts, remote management and control. This product supports two storage methods:front-end storage and client-side storage. The front-end monitoring point canbe located anywhere on the network, regardless of geographical location. It is combined with other front-end devices such as network cameras and network video servers to form a powerful security monitoring network with professional video surveillance system software. In the networked deployment system of this product, only one network cable can be used for the central point and monitoring point. Connection, center to monitoring point, no need to lay video lines, audio lines, etc., construction is simple, wiring costs, maintenance costs are low. This product can be widely used in security, such as finance, telecommunications, transportation, electricity, education and other fields.

1.2 Default

- The factory default super administrator account is admin and thepassword is 12345.
- NVR and PoE NVR factory default IPv4 address: 192.168.1.88.

1.3 Descriptive content agreement

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

- The "device" mentioned in this manual mainly refers to the NVR.
- The "IP device" mentioned in this manual mainly refers to IPC, IP DOME, or DVS.
- The "channel" mentioned in this manual refers to the NVR's IP channel.
- Click the "X" or "Cancel" button to return to the previous screen.

- Click All Interfaces Default to restore the current factory defaultsettings.
- Click "Apply", "Confirm" and "Save" on all screens to save the currentsettings.
- Click "Copy" on all interfaces to enter the copy channel interface.
 Select the channel to copy the current channel configuration to the selected channel.

1.4 Function Features

NVR features are as follows:

- H.264 videos condense format, support 4K/6M/5M/4M/3M/2M/1080P /720P/D1 resolution network camera input.
- G.711U, G711a, ADPCM_DVI4, AAC audio condense format.
- Image: Support voice call function.
- Each channel supports three-stream encoding, including MJPEG stream.
- Windows-style user interface embedded real-time Linux3.0 operatingsystem.
- Support independent adjustment of coding parameters for each channel, including coding type, resolution, frame rate, and bitrate.
- Support manual capture and image playback.
- ¹ Support preview, recording, play back, backup.
- Supports Chinese simplified, Chinese Traditional, English, Polish, Czech, Russian, Thai, Hebrew, Arabic, Bulgarian, German, French, Portuguese, Turkish, Spanish, Italian, Hungarian, Roman, Korean, Dutch, Greek, Vietnamese and Japanese switch.
- Some NVRs support fisheye correction, dual-screen preview, and PoE,face detection, crossover detection, regional intrusion,people stay detection, people gathering whichever is the case.
- Only one USB interface NVR needs to use USB interface such as Configuration import, Configuration export, backup, IPC Update, Manual Update, first select the corresponding function, such as click "Config import", pop-up "Please insert the usb disk" 60 When the second countdown prompts, unplug the mouse and plug it into the USBdevice before the countdown ends. After the NVR recognizes the USB device, it automatically proceeds to the next step.
- Local monitoring

The local monitoring features are listed below:

Supports local VGA and HD homologous output, and HD supports up

to4K resolution output.

- 4-channel NVR support 1 / 4 screen preview, 8-channel NVR support 1 /4 / 8 screen preview, 16 channel NVR support 1 / 4 / 8 / 9 / 16 screen preview, 32-channel NVR 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 cyclecan be set.
- Supports video motion detection, video loss detection and intelligent detection.
- Achieve IP PTZ camera control through the ONVIF protocol.
- I 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

Video record and playback features as below:

- Video compression standard is H.264 / H.264+ / H.265 / H.265+, withtimed recording function.
- Support for setting up recording schedules using drawing and editingmethods.
- 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 recordingtrigger mode can be set independently for different time periods.
- Recording trigger modes include Normal, Motion, Alarm, M&A,Intelligent.
- Support video data retrieval and playback through channel, video type, and the date.
- Multiple playback modes: Play / Pause, Reverse, Stop, Single Back,Single Forward, Speed Down, Speed Up, support for mouse drag positioning.
- You can select any area of the screen to zoom in locally.
- Support multi-channel simultaneous playback of video.
- User Management

- Three-level authority user management, administrators can create multiple operation users and set their rights, rights can be refined to thechannel.
- Data backup

Data backup features as below:

- ¹ Support backup via USB2.0 or USB3.0 interface.
- Support U disk or mobile hard disk in FAT32, NTFS, exFAT and otherformats.
- Support batch backup byfile and time.
- Support for iVMS320 clip-by-clip backups.
- [®] Support webpage to clip and download video files by time.
- 2 Alarm and exception management

Alarm and exception management features as below:

- Some models support multi-channel external alarm input and output.
- ¹Support video loss alarm, motion alarm, network disconnection alarm, IP conflict alarm, hard disk error and no disk alarm.
- Support our smart IPC face detection, Crossover, Regional intrusion, people stay, people gathering and other intelligent detection access andlinkage.
- Various alarms can trigger buzzing alarm, sending mail and screendisplay.
- Various alarms can trigger pop-up alarm prompts, voice warnings, and send emails to notify users.

Other Local Functions

Other Local functions features as below:

- Users can quickly and easily set the system parameters by NVR buttonsfrontal, USB mouse.
- Administrator can create multi-user and set permissions, which can berefined to the channel.
- Complete operations, alarms, exceptions, and information logging and retrieval.
- Some models support local alarms and upgrade front-end features.
- Support gesture password function.
- Network Function.

Network function features as below:

3536D series support a 10M / 100M adaptive network

interface, 3536/3536C series support 10M /100M/ 1000M adaptive networkinterface.

- Support remote client privileged access, improve system security.
- Support TCP / IP protocol cluster, support DHCP, DNS, HTP, SMTP, RTSP, UPnP, HTTPS and other protocols.
- Embedded WEB SERVER.
- Support remote search, playback, download.
- Support remote access and configure parameters.
- Support remote access to equipment running status, system log andalarm status.
- Support remote formatted hard disk, upgrade program, restart andother operations for system maintenance.
- Support remote manual trigger & stop recording.
- Support remote manual trigger & stop alarm output.
- 8 Support alarm pushes function.
- Support remote FTP server configuration.
- 8 Support remote PTZ control.
- Support for BitVision App.

NOTE

Support ONVIF protocol access to platform.



For other NVR functions, please refer to the user manual below.

There are functional differences between different models of equipment, please prevail in kind.

Chapter 2 NVR Appearance

2.1 The Front Panel

2.1.1 The Front Panel

(For informational purposes only, subject to object)



Figure 2-1

No.	Name	Description
1	Switch	Turn on / off the device
2	Hard disk indicator	Shows whether the hard drive is connected properly
3	Power Indicator	The device is powered on normally
4	Network Indicator	Shows whether the device is properly connected to the network
5	USB2.0	Connect mouse or USB memory stick backup

Table 2-1

• The panel diagram does not reflect the product size and ratio. Pleaserefer to the actual product for details.

2.2 Rear Panel

2.2.1 General equipment rear panel introduction

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



Figure 2-2

The corresponding description of each interface in Figure 2-2 is shown in thefollowing table:

No.	Name	Description
1	Ethernet port 1/2	When multi modes/ fault tolerance,LAN2 is the main network card,can connect Internet and IPC,and LAN1 is the secondary network card,can connect the other IPC of another network segment;When single network card mode, only use LAN2; 2 RJ-45 10/100/1000Mbps self-adaptive Ethernet interfaces.
2	Audio output	Equipment audio output interface
3	Audio Input	Equipment audio input interface
4	HD Video Output 2	Connect HD display devices such as computer monitors
5	VGA	Connect VGA display devices such as computer monitors
6	HD Video Output 1	Connect HD display devices such as computer monitors
7	USB3.0	Connect the mouse or U disk backup
8	eSATA	External hard drive interface
9	Ground 485	Alarm when equipment is grounded
10	Alarm Output	Equipment alarm output interface
11	Alarm Input	Equipment alarm input interface
12	Power toggle switch	115V/230V Switch
13	Power Connector	Device power connector
14	Switch	Equipment switch

Table 2-2

2.2.2 Built-in PoE device rear panel introduction

The schematic diagram of the rear panel of the built-in PoE device is as

follows:



Figure 2-3

The corresponding description of each interface in Figure 2-3 is shown in thefollowing table:

No.	Interface	Connection NOTE
1	HD Video	Connect HD display devices such as computer
	Output	monitors
2	VGA	Connect VGA display devices such as computer monitors
3	Audio Input	Equipment audio input interface
4	Audio output	Equipment audio output interface
5	PoE network port	Connect IP devices and power IP devices and networks
6	Ethernet port	Connect Network
7	USB port	Connect the mouse, U disk or removable hard disk
8	Power	Device power connector
	connector	

Table 2-3



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

2.3 Mouse Description

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

Mouse actions	Function
---------------	----------

Click left mouse button	 Select one of the options Insertion cursor, enter or modify the value of a parameter During playback, click the timeline to switch the playback progress.
Click right mouse button	 When interface not locking, click right mouse button, system menu pops up When interface locking, click right button on real-time preview interface, login interface pop up Click the right mouse button on the submenu, return to the previous menu
Double-click the mouse left button	In the preview and playback state, switch between single screen and multi screen.
Mouse drag	 In the pan/tilt control state, the direction is rotated. In the video occlusion alarm and motion detection alarm area settings, set the area range. Drag the area of the electronic zoom. In the preview interface, select a channel and press and drag to switch to other channel locations. When playing back the video, drag the progress bar to switch the video file to be played.
Slide mouse scroll wheel	 Time setting Select the drop-down menuvalues When previewing, you can switch the preview channel. When zooming in electronically, you can zoom in and out of the video image.

Table 2-4

2.4 Input Method Introduction

Input method includes lowercase and uppercase English letters. Clicking "

Support the symbol state of the symbol state o

" <a>" represents deleting incorrect input, as shown in Figure 2-4 and Figure 2-5.



Figure 2-4 Uppercase English input



Figure 2-5 Lowercase English input

Chapter 3 Connecting NVR

3.1 Hard Disk Installation



- Before installation, please confirm that the power has beendisconnected.
- Please use the NVR dedicated monitor hard drive recommended by thedevice manufacturer.

3.1.1 Installation tools

A Phillips screwdriver

3.1.2 Hard disk installation

The hard disk is installed as shown in Figure 3-1.

(1) Loosen the fixing screw on the cover, open the cover.

(2) Connect one end of the hard disk data cable and power cable to themotherboard, and connect the other end to the hard disk.

(3) Hold the hard disk with hand, turn over the chassis, and fix the hard disk with screw at the indicated position.

(4) Turn over the chassis, fix the cover with screw.







Figure 3-1

3.2 Device Connection

Use VGA cable or HD cable to transmit the NVR 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 NVR, as show in Figure3-2.





• Devices with built-in PoE network ports support IPC plug-and-play functionality. When adding IP devices using the PoE network port plug-and-play method, make sure that the IP devices also support thePoE standard.

Chapter 4 NVR Startup

4.1 System Initialization

The steps to turn on NVR are as follows:

① Connect the device to the 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



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



• After the device starts up, it can be simply configured through the bootwizard, which is the normal operation of the device.

4.2 Boot wizard

4.2.1 Quick Startup Wizard

Quickly configuration the NVR as shown in Figure 4-2: (1) Select the system language and click "Apply".

System Language	
	中文繁體

Figure 4-2①

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



③ Go to the "Date and Time" interface, configure the Device date and time, and click "Next".

		(GMT+08:00) Beijing, Urumqi, S	
		Year-Month-Day	
		0	
		time.nist.gov	
a			
	Exit		Next

Figure 4-2 ③

0 Go to the "Network Setup" interface, configure the network

parameters of the device. Click "Next".

٩	2/5 Network Setup		
	IP Address Network Mask	192 . 166 . 1 . 102 255 . 255 . 255 . 0	
	Primary DNS Secondary DNS		

Figure 4-2 ④

(5) Go to the "Camera" interface, you can search for and add devices and click "Next".

		otocol ‡		Operate	

Figure 4-25

6 Go to the "Hard Disk" interface, you can check the hard disk usage status: When the status shows "In Use", please click "Next". When the status shows "not mounted", select the hard disk, click "Format \rightarrow Confirm", the device restarts, and the hard disk is

formatted.

()				
	Status	Total Capacity 976.76G	Residual Capacity 737.46G	Device Type SATA
$\overline{}$				Previous Next

⑦ Go to the "Change Password" interface, setting system password and security questions according to your actual needs,, click "Complete", the boot wizard is set up.

(0)	5/5 Change Password		
(•)			
(•)		What is your favorite book?	
		What is your favorite book?	

Figure 4-2 ⑦



ΝΟΤΕ

- On the startup wizard screen, click "Exit→Confirm" to exit the startupwizard.
- When the password is too simple, after the login, a password strengthsecurity interface will pop up. You can click "Modify later" to continueusing the existing password.
- Any interface of the boot wizard, if you do not need to modify it, pleaseclick "Next" to enter the next interface directly.
- Please confirm that the NVR device has been properly connected to thenetwork before setting up the network parameters.
- The hard disk needs to be formatted when it is first installed on thedevice.

4.2.2 Forget Password

If you forget your password, you can click "Forget password" on the login page to enter the Forget Password interface to reset the password (as shownin Figure 4-3). There are three ways to reset the password: "Answer

the question", "Import Key" and "Dynamic Password".

Recover password		×
Mode	Security Issues	
Security Issue1	What is your favorite book?	
Answer1		
Security Issue2	What is your favorite book?	
Answer2		
	Cancel Next	

Figure 4-3

Answer The Question: Select the three security questions when settingthe password and enter the answer to the corresponding question, click"Next Step" to enter the new password setting interface, as shown in Figure 4-4.

Modify Password	×
Character password Rese	✓ t success
Password	
Confirm Password	
Cancel	Save

Figure 4-4

Import Key: Select the authentication method as "Import Key", asshown in Figure 4-5.

Forget Password		×
Verification Mode	Import Key	
	Import	

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, select "Change Password", enter a new password, confirm the password, and click "Save", as shown in Figure 4-6.

Modify User		×
User Name		
Modify Password		
New December 1		
New Password		
Unlock Pattern		
Level		
	Save	

Figure4-6

Dynamic Password: Select the authentication method as

"DynamicPassword", as shown in Figure 4-7.

Forget Password		U		×
Verification Mode	Dyr	namic Password		
Serial number	2E91	8C186F9B699F		
Dynamic Password				
Tip: Keep this page uni	iil you have obtaine	d a dynamic password.		
	Next Step	Clear	Cancel	

Figure 4-7

1 Contact the supplier to get the security code, enter the location of the security code, and click "Next Step".

(2) In the modify user interface, check "Change Password", enter a new password, confirm the password, and click "Save".

- When selecting "Answer The Question", you must answer at least 2 questions, and the answer must be exactly the same as the set answer when setting the password before entering the "Modify User" interface.
 - When you select "Import Key", the key file in the USB flash drive mustbe 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.

NO VIDEO	NO VIDEO	NO CAMERA	NO CAMERA
NO CAMERA	NO CAMERA	NO CAMERA	NO CAMERA
NO CAMERA	NO CAMERA	NO CAMERA	NO CAMERA
NO CAMERA	NO CAMERA	NO CAMERA	NO CAMERA
			I/1 ■ ② ■ Ø 00:13:24 2022-07-09

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 theappropriate 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:

lcon	Function
	The monitoring channel is in video.
÷\$;	The monitoring channel is in the motion detection state.
Aŧ	The monitoring channel is in the state of intelligent alarm

Table 4-1

4.4 Quick add device

Quick add device is shown in Figure 4-9:

(1) At the preview menu, for the channel of unconnected IP Camera,



Figure 4-9 (2)

- **Search:** Click "Refresh" to automatically search all online IP devices in the LAN.
- Add: Add selected device.
- Manual Add: For details on how to manually enter device information, see 5.3.5.1.



NOTE

 Manual Add: On the add device interface, enter the IP address → select the protocol → enter the user name, password, → click "Add".

Chapter 5 NVR Menu

5.1 Shortcut menu

After logging in to the system, click the right mouse button to pop up a shortcut menu, as shown in Figure 5-1.



Figure 5-1

The shortcut menu icons and specific functions are shown in Table 5-1 below:

lcons	Functions
L N	Exit Full Screen
08	The split screen is divided into 1, 4, 9, 16 split screen display according to the number of connected devices supported by the device
\odot	Click to open channel cruise
ۍ* ا	Click to enter the channel management interface, where you can add devices and manage devices
٩	Click to enter the playback interface
$\textcircled{\bullet}$	Click to open the PTZ control interface to perform PTZ control operations

5.2 Main Menu

After logging in to the system, click the right mouse button and select Exit Full Screen to enter the main menu interface. The main menu includes preview, playback, search, configuration, maintenance, alarm information, download, QR code, and power supply, as shown in Figure 5-2.

NVR 6.0	D 🛇 🛤	☆ 5∞	0° & 88 ()
сні сніз	NO VIDEO	NO CAMERA	NO CAMERA
	NO CAMERA	NO CAMERA	NO CAMERA
	NO CAMERA	NO CAMERA	NO CAMERA
			Split Screen ● 2/2 ● ② ■ ☑ 16.24.34 2022-07-95

Figure 5-2

The main menu icons and specific functions are shown in Table 5-2 below:

lcons	Functions
	Click to enter the preview interface.(Detailed operation as 5.3.1)
\otimes	Click to enter the playback interface.(Detailed operation as 5.3.2)
	Click to enter the search interface. (Detailed operation as 5.3.3)
\$	Click to enter the config interface.(Detailed operation as 5.3.4)
F /	Click to enter the maintain interface.(Detailed operation as 5.3.5)

Q	Click to enter the alarm infointerface.
÷۶	Click to enter the download interface.
	Click to view the QR code.
\bigcirc	Click to enter the logout user interface

Table 5-2

5.3 Preview

In the main menu, click " to enter the preview interface, as shown in Figure 5-3:

	₽ ⊗	tā 🗘	B,	0 a 8 0
		NO CAMERA	NO VIDEO	NO VIDEO
	NO VIDEO	NO VIDEO	NO VIDEO	NO VIDEO
	NO CAMERA	NO CAMERA	NO CAMERA	NO CAMERA
	NO CAMERA	NO CAMERA	NO CAMERA	NO CAMERA
				 1/1 Image: Constraint of the second sec

Figure 5-3

5.3.1 Channel shortcut menu

After adding a device to a channel, click the channel. The shortcut menu appears as shown in Figure 5-4.



Figure 5-4

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

lcon	Function			
Ó	Manual capture, click the button to capture the current video pictures. Search, view and backup pictures can be carried out in "Picture".			
Þ	Instant playback button, click the button, the channel playback 5 minutes before the video.			
œ	PTZ, click into the PTZ interface			
√×	Audio output control button, click to set the channel output volume and mute.			
Ð	Electronic zoom button, click to enter the full-screen zoom mode, display the unmagnified image of the channel in the lower right corner of the screen, and drag the red frame of the unmagnified image by mouse to switch the position of the enlarged image. Click "O" and "O" or scroll the mouse wheel to adjust the zoom. multiple. Click the right mouse button to exit the electronic zoom and restore the live preview interface.			
R	Image color button, click into the image interface, you can set the channel brightness, contrast, saturation, sharpness, fill light, exposure setting, white balance, video adjustment of the parameter values.			
ို့ရေ	Switch between main stream and sub stream			

Table 5-3

5.3.2 PTZ

Click O''' on the channel connected to PTZ to enter the PTZ setting interface, where you can perform operations such as PTZ speed, direction and zoom, as shown in Figure 5-5

	D 🛇 🖬	1 🗘 🗗		0 8 0
	NO CAMERA	NO VIDEO	NO VIDEO	
NO VIDEO	NO VIDEO	NO VIDEO	NO VIDEO	
	NO CAMERA	NO CAMERA	NO CAMERA	Preset Point 3 2 19 1
NO CAMERA				
	NO CAMERA	NO CAMERA	NO CAMERA	
NO CAMERA				
			1/1 • • 16:47:55 2022-07-25	

Figure 5-5

PTZ Control

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) ofthe gimbal equipment, focusing, zooming, aperture, rapid positioning and cruising, etc., use with the direction keys when setting, as shown in Figure 5-5

- **Channel:** The channel where the PTZ device is located.
- Zoom: 1/2 " to adjust camera zoom in/out.
- **Focus:** +/- " to adjust camera focusing.
- Iris: +/-- " to adjust camera brightness.
- Speed: To control the speed of the pan/tilt, for example, the rotation speed in steps of 7 is much greater than the rotation speed in steps of 1.
- **Direction:** " to adjust the direction of the PTZ camera.

Cruise Control

In the PTZ setting interface, click "Preset Point" to enter the preset position setting interface, which is used to set and call the preset point, click "Cruise" to select the cruise line, turn on/off the cruise, as shown in Figure 5-6:

Preset Point	Cruise	Preset Point	Cruise
Preset Point 1	x 😳 📋	Cruise Line No. 1	ŵ <i>B</i>
Preset Point 2	x 😳 📋	Cruise Line No. 2	ŵ <i>0</i>
Preset Point 3	ය ලා 🗊	Cruise Line No. 3	(ĝ) <i>(</i> /
Preset Point 4	\$ ŵ	Cruise Line No. 4	ŵ <i>P</i>



- Preset: Used to set/recall/delete presets.
- Cruise: Select the cruise line that has been set and click to turn on/off cruise.

5.3.3 Image Configuration

In the image configuration interface, you can set the image parameters such as brightness, contrast, saturation, sharpness, etc.

The steps for image setup are as follows:

Step 1: Click "From the IPC channel to enter the channel image color setting interface, as shown in Figure 5-7.



Figure 5-7

Steps 2: Select the configuration channel.

Steps 3: Set image brightness, contrast, saturation, sharpness, wide

dynamic, mirroring, corridor mode, video format, day and night switching and other parameters according to actual needs.

Steps 4: Click "Apply" to save the settings.

- ? Image adjustment: According to the actual environment, you can adjust the brightness, contrast, saturation and sharpness of the preview screenby dragging the progress bar. You can also set the value behind the progress bar, "Brightness", "Contrast", "Saturation", "Sharpness". Valid values range from 0-255 and the default value is 128.
- Wide Dynamic: The default is turn off, WDR intensity (low, medium, ? high) can be toggled in the drop-down menu.
- Mirror: The default is turn off, Switch modes (horizontal, vertical, ? horizontal and vertical) as needed.
- \geq Corridor Mode: The default is turn off, Switch modes according to actual needs (rotate 90 $^\circ\,$, rotate 270 $^\circ\,$).
- Video Fomat: The default is 50HZ(PAL), Switchable 60HZ(NTSC). ?
- ? Day And Night: The default is auto, Modes can be switched according to actual needs (day, night, timing switching).
 - \checkmark Day: The fill light of the camera is turned off, and the picture remains in color mode.
 - \checkmark **Night:**The fill light of the camera is always on.
 - \checkmark **Timing:** The fill light of the camera is turned on or off according to the preset time.



NOTE

The camera image interface only displays the device support ? functions. The specific interface is subject to the actual product.

5.4 Playback

5.4.1 Playback channel video

In the main menu, click " asshown in Figure 5-8.


Figure 5-8

No.	Function	Description
1	Channel	Min / Max Ch: Intelligently select the number of playback channels. The minimum number of channels selects one channel at a time by default; the maximum number of channels selects the maximum channels supported by the device at a time, such as 4 channels. Channel: select the channel number to be queried (multiple channels can be selected at the same time, depending on the device performance)
2	Calendar	Dates with colored dots on the calendar indicate that there is video recording, and dates without color dots indicate that there is no recording on that day. In any playback mode, select the recording type and channel, click the date you want to view, and the timeline will be updated to the recording track of the day.
		 Motion Detection Smart Alarm

		💽 : Normal
		Ceceleration
		Acceleration
3	Playback control	Frame rewind
	area	Frame advance
		💽 : Play
		🕕 : Pause
		ligo back 30 seconds
		:fast forward 30 seconds
		Full Screen
4	Play bar	Display the recording type and the time period under the current conditions. When the device is in multi-split screen, click theplayback interface and select a channel. The firsttime axis is the recording time axis of the selected channel. Click a point in the colored area with the mouse to start playback from that point in time.
5	Menu hide	 Electronic zoom Turn volume on / off Add tags Clip

Table 5-4

The interface description is shown in the following table:

Playback: Retrieve the corresponding video files according to the channel, date and video type, and play the video files in sequence from the playback bar that meets the conditions.

The specific steps are as follows:

Step 1: In the main menu, click " to enter the playback interface.
Step 2: Select the video playback channel, and the calendar will automatically display the current month's video recording.

✓ Single channel Playback

1. Select the channel, date and recording type to be played back.

2. Click "", and the display interface starts toplayback the recording, as shown in Figure 5-9 below.



Figure 5-9

Multi-channel playback

1. Select multiple channels, date and recording type to be played back.

2. Click ", the display interface starts multi-channel synchronous playback video, as shown in Figure 5-10 below.



Figure 5-10



NOTE

- Multi-channel playback supports MAX speed playback.
- The interface shown in Figure 5-10 is for reference only. Different modelshave different maximum number of channels for simultaneous playback and different functions. Please refer to the actual interface.

5.4.2 Playback assistance function

Electronic zoom

The specific operation steps are <u>as follows</u>:

Step 1: In the main menu, click to enter the video playback interface. **Steps 2:** Select the channel for video playback and the date when the video isrecorded, and the searched video will be displayed on the progress bar.

Steps 3: Click " to playback on the display interface.

Steps 4: Click playback interface, popup hidden menu, click " to enter Electronic zoom interface, as shown in Figure 5-11 below.



Figure 5-11



NOTE

- Enter the Electronic zoom interface, the default image is enlarged; the maximum magnification of the image is 16 times.
- When enlarging an image, the center of the image is enlarged by default. Hold down the left mouse button and drag the image to switch to the area to be enlarged.
- You can use the mouse wheel to zoom in and zoom out the image. The mouse wheel slides down to enlarge the image; slides up to reduce the image.

Tag

The tag function can help users record relevant information at a certain point in time when playing back videos, so that they can view these marked videos at any time.

Step 1: In the main menu, click o enter the video playback interface.
Steps 2: Select the channel for video playback and the date when the video is recorded, and the searched video will be displayed on the progress bar.
Steps 3: When viewing the video, if there is an abnormal situation on the screen, you can click the playback interface window to pop up the hidden with the date when the video is recorded.

menu, click the label, and after adding a custom label, you can enter the label in the search interface to quickly view or export the corresponding video file, as

shown in Figure 5-12 below.



Figure 5-12



NOTE

After adding the tag, the system will automatically clip and save the 10 second video before and after the tagging time.

Clip

It supports clip video files during video playback.

The specific operation stepsare as follows:

Step 1: In the main menu, click "" to enter the video playback interface.

Steps 2: Select the channel for video playback and the date when the video is recorded, and the searched video will be displayed on the progress bar.

Steps 3: Click the playback window to pop up the hidden menu, click and enter the start time and end time in the pop-up box, as shown in Figure 5-13.

Start Time	
10:10:03	<u>©</u>
End Time	
10:20:03	٩
	Cancel Save

Figure 5-13

Export				×
Device Name		× 0		
► New Folder				
Name [‡]	Size [‡]	Туре 🗘	Modify Date 🗘	
 The number of selected files is 1, 	about 0 Mb			
Remaining Capacity/Total Capacity: 0	MB/0GB			
			Cancel	Save

Steps 4: Click "Save" to export clips to USB flash drive, as shown in Figure 5-14 below.

Figure 5-14

5.5 Search

5.5.1 Video

The specific operation steps are as follows:

Step 1: On the main menu page, select "Search \rightarrow Video" to enter the video search interface, as shown in Figure 5-15 below.



Figure 5-15

Steps 2: Set the search conditions (video type, time range, channel). **Steps 3:**Click "Search", the search results will show files that meet the conditions.

Steps 4:Export the video file, insert the U disk into the NVR, select the video file, click "Export" or "Export All", wait for the export progress to complete, and then export the searched video files to the U disk.

- Video: Choose to find the video file type, there are normal events, motion detection, alarm types.
- **Tag:** Select a tag, and then enter the tag content to find matchingvideo files according to the tag content.
- **Channel:** Select the channel.
- **Start/End Time:** Select the start and end time of the search file.
- **Search:**Search for video files by search criteria and display them in a list.
- **Export:** Custom selection of video files for exporting stored on a USB stick connected to the device.
- **Export All:** Export all video files in the device and store them on the U disk connected to the device.
 - ← / → : Page turning function, when the system has many video files in the query time period, click to view other video files.
- B Files are displayed in view.

 \triangleright

Files are displayed in a list.

5.5.2 Smart

The specific operation steps are as follows:

Step 1: On the main menu page, select "Search→Smart" to enter the smart event search interface, as shown in Figure 5-16 below.



Figure 5-16

Steps 2: Set the search conditions (smart event type, time range, channel). **Steps 3:**Click "Search", the search results will show files that meet the conditions.

Steps 4:Export the video file, insert the U disk into the NVR, select the video file, click "Export" or "Export All", wait for the export progress to complete, and then export the searched video files to the U disk.

- Smart: Choose to find the video file type, there are regional detection, line crossing, loitering, people gathering detection.
- **Channel:** Select the channel.
- Start/End Time: Select the start and end time of the search file.
- **Search:**Search for video files by search criteria and display them in a list.
- **Export:** Custom selection of video files for exporting stored on a USB stick connected to the device.
- **Export All:** Export all video files in the device and store them on the U disk connected to the device.

Example turning function, when the system has many video files in the query time period, click to view other video files.

- B Eiles are displayed in view.
- Files are displayed in a list.

5.5.3 Picture

?

The specific operation steps are as follows:

Step 1: On the main menu page, select "Search→Picture" to enter the picture search interface, as shown in Figure 5-17 below.



Figure 5-17

Steps 2: Set the search conditions (picture type, time range, channel). **Steps 3:**Click "Search", the search results will show files that meet the conditions.

Steps 4:Export the picture file, insert the U disk into the NVR, select the picture file, click "Export" or "Export All", wait for the export progress to complete, and then export the searched picture files to the U disk.

- Picture: Choose to find the picture file type, there are manual, motion detection, alarm, regional detection, line crossing, loitering, people gathering detection.
- **Channel:** Select the channel.

- Start/End Time: Select the start and end time of the search file.
- **Search:**Search for picture files by search criteria and display them in a list.
- Export: Custom selection of picture files for exporting stored on a USB stick connected to the device.
- Export All: Export all picture files in the device and store them on the U disk connected to the device.
- > 4×10^{-1} : Page turning function, when the system has many picture files in the query time period, click to view other picture files.
- B E Files are displayed in view.
- Files are displayed in a list.

5.5.4 Log

The specific operation steps are as follows:

Step 1: On the main menu page, select "Search \rightarrow Log" to enter the log search interface, as shown in Figure 5-18 below.



Figure 5-18

Steps 2: Set the search conditions (log type, time range).

Steps 3: Click the "Search" button to view the log.

Steps 4:Export the log file, insert the U disk into the NVR, click "Export All", wait for the export progress to complete, and then export the searched log files to the U disk.

- Log: Choose to find the log file type, there are system management, user management, parameter configuration, file operations, status prompt, alarm event.
- Start/End Time: Select the start and end time of the search file.
- Search:Search for picture files by search criteria and display them in a list.
- **Export All:** Export all log files in the device and store them on the U disk connected to the device.

Page turning function, when the system has many picture files in the query time period, click to view other picture files.

5.6 Config

Config is composed of easy mode and expert mode.

5.6.1 Easy Mode

5.6.1.1 System Config

Common Config

In the system config interface, click " Config \rightarrow Easy Mode \rightarrow System Config \rightarrow Common Config " to enter the common configuration interface, where you can set the system time, resolution, enable/disable boot wizard, operation password, and NTP time synchronization, as shown in Figure 5-19:



Figure 5-19

【System Time】 Display the time of the current device, click the time display bar to pop up the calendar and time bar, you can manually modify the system time, turn on the NTP time calibration and then turn it to gray.

C Resolution **D** Displays the resolution of the current device output, the selectable values are 1024×768, 1280×720, 1280×1024, 1920×1080, 3840×2160 NVR HD high-definition interface supports maximum 4K resolution output.

[Boot Wizard] It is enabled by default, and it will directly enter the "Startup

Wizard" interface every time it is turned on. $\operatorname{Click}^{\operatorname{scal}}$ to close the startup wizard.

【Operation Password】 It is enabled by default. Click to disable the operation password. You can enter the system without entering a password when using it.

User Config



NOTE

- The factory default administrator user name is admin and the password is 12345.
- Administrators can add and delete users and configure user parameters.
- The user level has two levels, the Operator and the General user.



- In order to improve the security of the product's network use, please update the product password regularly. It is recommended to update and maintain it every 3 months. If you have high security requirements for the product environment, it is recommended to update the password monthly or weekly.
- It is recommended that administrators effectively manage device accounts and user permissions, delete irrelevant users and permissions, and close unnecessary network ports.
- Administrators should configure user rights appropriately, and recommend using custom users for management in daily maintenance.

Add User

The specific operation steps are as follows:

Step 1: In the main menu, choose "Config \rightarrow Easy Mode \rightarrow System Config \rightarrow User Config" to enter User interface, as shown in Figure 5-20.

NVR 6.0	I	₽ ⊗	a 🌣	F 2		0 2 8 0
System Config						
Common Config		User Name	Operate	Safety	Level	Permission
User Config						
Abnormal Config						
NetWork Config						
Channel Manage						
Record Manage						
Easy Mode Expert Mo						

Figure 5-20

User list: Displays all current users of the device; the administrator can only change its password, not its permissions.

Steps 2: Click "Add" to enter the permission confirmation interface, first confirm the password, as shown in Figure 5-21below.

Permission Confirmation		×
Administrator Password		
	Cancel	Save

Figure 5-21

Steps 3: Enter the administrator password, click "Save", after the permission isconfirmed, you can enter the add user interface to add users, as shown in Figure 5-22 below.

New User		×
Level	Operator	~
User Name		
Password		
Confirm Password	PermissionSet	
		Cancel Save

Figure 5-22

Steps 4: Choose a level ,enter the new user information (user name, password, confirmpassword), select the level, click "Save".

Steps 5: Setting permissions. Click the "PermissionSet" button to enter the permission setting interface, and set the user permission.

Authority Description

Authority are divided into local configuration, remote configuration, channel configuration, administrator users can enable / disable corresponding permissions as needed.

- Local Config
 - ✓ Local Param Setup: set parameters, restore default parameters, import / export parameters.
 - ✓ Local Channel Setup: Add, delete, modify, import and export configuration files for the IP channel.
 - ✓ Local User: Check the User Management interface.

- ✓ Local Disk: View and set recording plans, format storage devices.
- ✓ Local Log: View system logs, system information.
- ✓ Local Update: Upgrade the device locally.
- ✓ Local Restore Default: you could restore default parameters.
- ✓ Local Shutdown Reboot: You can shutdown and reboot the device.
- Remote Config
 - ✓ Remote Param Setup: Set parameters remotely, restore default parameters, import / export parameters.
 - ✓ Remote Channel Setup: Add, delete, modify IP channels remotely.
 - ✓ Remote User: View the User interface remotely.
 - ✓ Remote Disk: View and set recording plans, format storage devices remotely.
 - ✓ Remote Log:View system logs remotely.
 - ✓ Remote Update:Upgrade the device on the web.
 - ✓ Remote Restore Default: you could restore default parameters remotely.
 - ✓ Remote Shutdown Reboot: ou can shutdown and reboot the device remotely.
- Channel Config
 - ✓ Local Preview: Preview live video of each channel locally, this permission is detailed for each channel.
 - ✓ Remote Preview: Preview live video of each channel remotely, this permission is detailed for each channel.
 - ✓ Local Record: Set the recording plan of each channel locally, this permission is detailed for each channel.
 - ✓ Remote Record: Set the recording plan of each channel remotely, this permission is detailed for each channel.
 - ✓ Local Playback: Playback video files on NVR locally, this permission is detailed for each channel.
 - ✓ Remote Playback: Remote playback, download video files on NVR, this permission is detailed for each channel.
 - ✓ Local PTZ: this permission is detailed for each channel.
 - ✓ Remote PTZ: this permission is detailed for each channel.
 - ✓ Local Backup: Backup video files on NVR locally, this permission is detailed for each channel.Channels with local backup authority must have local playback authority.

✓ Remote Backup: remote backup the video files from NVR, this permission is detailed for each channel. A channel with remote backup authority must have remote playback authority.



NOTE

- Only the admin administrator has the right to "restore default parameters".
- Channel permissions support individual permission settings for a channel.

Steps 6: Click "Save" to save the set permissions and return to the user management interface, as shown in Figure 5-23 below.

NVR 6.0	₽ ⊗	🛱 🗖 🌣	B≯		0 8 8 0
System Config					
Common Config	User Name	Operate	Safety	Level	Permission
User Config					
Abnormal Config					
NetWork Config					
Channel Manage					
Record Manage					
Easy Mode Expert Mo					

Figure 5-23

Modify the user

The specific operation steps are as follows:

Step 1: In the main menu, choose "Config \rightarrow Easy Mode \rightarrow System Config \rightarrow User Config" to enter User interface.

Steps 2: Choose User, click " to enter Modify User interface, asshown in Figure 5-24 below.

Modify Password		×
Password		
Confirm Password		
Pattern Unlock		
	Cancel	Save

Figure 5-24





- When administrator changing the password, an unlock pattern can be set at the sametime, and the user will have one more way to login to the device.
- Delete the user

The specific operation steps are as follows:

Step 1: In the main menu, choose "Config \rightarrow Easy Mode \rightarrow System Config \rightarrow User Config" to enter User interface.

Steps 2: Choose the user you want to delete, click the below to delete it.

Steps 3: Enter the administrator password, click "Save" to complete user deletion.

Modify the user permission

The specific operation steps are as follows:

Step 1: In the main menu, choose " Config \rightarrow Easy Mode \rightarrow System Config

 \rightarrow User Config" to enter User interface.

Steps 2: Choose the user , click enter the administrator password to enter the interface for modifying user permissions, as shown in Figure

Local Permission Remote Pe	rmission		×
Username: user	Level: Cunsumer		
All	C Shutdawa Rabaat		
Channel Mgr	Record Manage		
PreView	Playback	Mackup	M PTZ
			All
			CH1 CH2 CH3
CH4 CH5 CH6	CH4 CH5 CH6	CH4 CH5 CH6	CH4 CH5 CH6
CH7 CH8 CH9	CH7 CH8 CH9	CH7 CH8 CH9	CH7 CH8 CH9
CH10 CH11 CH12	CH10 CH11 CH12	CH10 CH11 CH12	CH10 CH11 CH12
CH13 CH14 CH15	CH13 CH14 CH15		
			Cancel Save

5-25 below.

Figure 5-25

Steps 3: Modify the user's local permissions and remote permissions as needed, and click "Save" to complete the modification.

Abnormal Config

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

linkage action. The event types supported by the device are "No Disk", "Disk Error", "Broken Network" and "IP Conflict".

The specific operation steps are as follows:

Step 1: In the main menu, choose "Config \rightarrow Easy Mode \rightarrow System Config \rightarrow Exception" to enter Exception setting interface, as shown in Figure 5-26 below.

NVR 6.0	₽ ⊗	a 🌣	B,	0 8 0
System Config				
Common Config		No Hard Disk 🗸 🗸		
User Config	Enable			
Abnormal Config				
NetWork Config				
Channel Manage				
Record Manage				
Easy Mode Expert Mode				

Figure 5-26

Steps 2: Select the event type, click " to enable the exception alarm function, choose the way for linkage(Screen Display, E-mail Notification,Buzzer Alarm) and alarm output port.

Steps 3: Click "Apply" to save the setting.

- Screen Tips: When an alarm occurs, the device pops up an alarm screen to show a warning.
- E-mail Notify: When an alarm occurs, the device will send anemail as a warning.
- Buzzer Alarm: When an alarm occurs, the device will beep to show a warning.

5.6.1.2 Network Config

Basic Config

Set the IP address, DNS server and other information of the NVR device to ensure that it can communicate with other devices in the network.



- If the device is used for network monitoring, the network must be set up for normal use.
- Factory default IP: 192.168.1.88.

The specific operation steps are as follows:

Step 1: In the main menu, click " Config \rightarrow Network Config \rightarrow Basic Config" to enter basic config interface, as shown in Figure 5-27 below.



Figure 5-27

Steps 2: Configure IP Address, Network Mask, Gateway, Primary DNS and other related network parameters.

Steps 3: Click "Apply" to save the setting.

- IP Address: Enter the IP address of NVR.
- Enable DHCP: Enable / disable DHCP (Dynamic Host Configuration Protocol) function. "IP Address", "Network Mask", and "Gateway" can not be set when DHCP is enabled.
- Network Mask: According to the actual situation set.
- **Gateway:** According to the actual situation set, with the IP address in the same network segment.
- Primary DNS: This is the DNS server IP address, which is usually provided by the local access point service provider (ISP). Enter the IP address of your domain name server here.

Secondary DNS: Start secondary DNS when the primary one does not work.

NOTE

- The IP address and the default gateway must be in the same network segment.
- If NVR 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.

■ 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.



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

The specific operation steps are as follows:

Step 1: On the main menu page, click " Config \rightarrow Easy Mode \rightarrow Network Config \rightarrow P2P" to enter the P2P interface, as shown in Figure 5-28.

NVR 6.0	D	8	ā	\$ B	Ł	٩	2 B 0
		•				ലങ്ങ	
		on SSL			え 深 切	분정분	

Figure 5-28

Step2: Make sure that the NVR accesses the external network, choose "Enable $P2P \rightarrow$ Encryption ".

Steps 3: Click "Apply" to save the configuration.

Steps 4: The connect status shows "Online ". This indicates that P2P is enabled and can be used normally.

- **Connect Status:** Display device P2P online status.
- **Enable:** Turn on / off device P2P function, The default is "Online".
- Encryption: Select the encryption type. After the device is enabled, all signaling communication between the device and the server is encrypted.
- Push interval(min): Set the time interval for the device to snap the alarm picture to the mobile client, and you can also select "Turn off the push" to stop the device from pushing the picture to the mobile terminal.
- Android &IOS: P2P client download link.
- **SN:** Displays the serial number of the device P2P. This serial number is unique.

BitVision App Client operation example

"BitVision App" provides a micro video service platform for home and business users. Users can easily view real-time video, historical video, alarm service and other services.

The specific operation 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.

Steps 2: Run the client and log in to the account (No account is required to register first).

Steps 3: Add devices to the mobile client.

After login, click "Device Management $\rightarrow \stackrel{\clubsuit}{\rightarrow}$ SN Add", Align theQR code on the device body or P2P interface to scan \rightarrow enter the device username, 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.

Steps 4: Real-time preview

In the main interface, click "Real Time" \rightarrow " \rightarrow choose the device you want to view the preview, click " Done ", choose a channel to play the real time video.

E-mail

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

The specific operation steps are as follows:

Step 1: On the main menu page, click "Config \rightarrow Network Config \rightarrow E-mail" to enter the E-mail setting interface, as shown in Figure 5-29.

NVR 6.0	D	S 🔊	☆ ₿≁		a 8 0
System Config					
NetWork Config		nable 🔵		NVR_ALERT	
Basic Config					
P2P					
		erver Customize 🗸			
E-mail		imize smtp.MailServer.com			
Channel Manage		Port 465			
Record Manage		ption SSL 🗸			
		cture)			
Easy Mode Expert Mo					

Steps 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.

Steps 3: Click "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.

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

- **Enable:** Enable / disable mail sending.
- **SMTP Server:** Select the SMTP sever type.
- **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.
- Recipient 1/2/3: Recipient e-mail address 1/2/3.
- Subject: Please input email subject here. System support English character and Arabic number, default "XNVR_ALERT ".
- 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.
- 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.

5.6.1.3 Channel Manage

Channel Config

* Add Device

After adding a remote device, you can view the video screen of the remote device directly on the NVR, and perform operations such as storage and management. Different devices support different numbers of remote devices. You can add required remote devices based on actual conditions.

Prerequisites:

Before adding the device, please confirm whether the IP camera has been

connected to the network where the NVR is located and set its network parameters correctly.



NOTE

- The device may face network security problems when it is connected to the Internet. Please strengthen the protection of personal information and data. When you find that the device may have hidden network security risks, please contact us in time. It is recommended that you conduct a periodic network security assessment of the device. Our company can provide corresponding professional technical services.
- Please understand that you are responsible for properly configuring all passwords and other related product security settings, and keeping your username and password properly.

The specific operation steps are as follows:

Step 1: In the main menu, click "Config \rightarrow Easy Mode \rightarrow Channel Manage \rightarrow Channel Config" to enter Add Camera interface, as shown in Figure 5-30

NVR 6.0	Þ	⊗	ā	\$ E%		٥	3 B O
System Config							
NetWork Config							
Channel Manage							
Channel Config							
POE							
OSD Config							
Event Config							
Record Manage							
Easy Mode Expert Mod							

Figure 5-30

Steps 2: Click "Refresh" device will search all IP cameras in the LAN and display the searchresults, as shown in Figure 5-31below.

NVR 6.0	Ŀ	⊗ 8	a 🛛	· 67		0	B 8 0
		IP Addr ‡		Protocol ‡		Operate	

Figure 5-31

Steps 3: Choose the device you want to add, click "Add", asshown in Figure 5-32below.

NVR 6.0		D	⊗ :	ā 🌣	B,			
System Config								
NetWork Config								
Channel Manage								
Channel Config								
POE								
OSD Config								
Event Config								
Record Manage								
			IP Addr 🎈	Pro	tocol ‡		Operate	
Easy Mode Expert Mod								

Figure 5-32

- Auto Add: Click NVR to modify all camera IP and other network parameters in the LAN, and connect it to NVR.
- Manual Add: Click to enter the "Channel Setup" interface. You can close the channel, switch, modify the protocol, switch the preview code stream or manually enter the device related information to add the device, as shown in Figure 5-33.here are two methods of manually

adding IP and domain name addition. When adding IPC through a domain name, only Private and ONVIF protocols are supported.

Add Manully			×
() Refresh			
No. +	IP Addr 🗧	Port [‡] Protocol [‡]	
	IP Address		
	Protocol	ONVIF ~	
8	Port		
	Username		
	Camera Password		
		Cancel Continue Add	Add



- ✓ IP: Need to add IPC IP address.
- ✓ Protocol: Select Add Device Protocol with Onvif, Private options.
- ✓ **Port:** Access to the port used by IPC, the default is 80.
- ✓ User Name: The login user name of IPC (if the defaulted user name is not admin, please changeit 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).
- Updade IPC: Select one or more upgrade devices of the same type, insert the U disk storing the upgrade package of the device into the NVR, click "Upgrade", the system will find the upgrade package in the U disk and display it, select the upgrade package, click "Upgrade ", Upgrade IPC in batches at the same time.
- Delete: In the list of added devices, select the channel to be deleted and click the "Delete" button to delete all selected devices.
- Click and enter the channel setting interface, this functiton is the same as" manual add".

- > 🔟 : Delete the current IPC from the device list.
- 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.
- Click to view the screen of the corresponding channel.
- POE
- POE Power Configuration

The specific operation steps are as follows:

Step 1: In the main menu, click "Config \rightarrow Easy Mode \rightarrow Channel Manage \rightarrow POE" toenter PoE Power Configuration interface, as shown in Figure 5-34 below.



Figure 5-34

Steps 2: Check the connection status and power usage of each port of POE. **Steps 3:** Click "Apply" to save the setting.

POE Bonding Configuration

The specific operation steps are as follows:

Step 1: In the main menu, click "Config \rightarrow Easy Mode \rightarrow Channel Manage \rightarrow POE" to enter PoE Bonding Configuration interface, as shown in Figure 5-35 below.

NVR 6.0	D	ଷ 🖪	☆ 5%	0 8 8 0
System Config				
NetWork Config		POE Binding		
Channel Manage				
Channel Config				
POE				
OSD Config				
Event Config				
0				
Record Manage				
Easy Mode Expert Mo				

Figure 5-35

Steps 2: Select the bound channel and set the channel that the device is powered by POE, and choose "long distance" according to the actual connection distance.

Steps 3: Click "Apply" to save the setting.

OSD Config

OSD is the abbreviation of "On Screen Display", the OSD of local preview mainly includes time and channel name.

The specific operation steps are as follows:

Step 1: In the main menu, click "Config \rightarrow Easy Mode \rightarrow Channel Manage \rightarrow OSD Config" to enter OSD config interface, as shown in Figure 5-36 below.



Figure 5-36

Steps 2: Select the channel to set the OSD.

Steps 3: Set the OSD of the channel.



NOTE

- OSD includes channel name, time, text, date format, OSD position and mirror.
- The current OSD function only supports the private protocol to add the device to obtain and set.

Steps 4: Click "Apply" to save the setting.

Event Config

Motion Detection

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.

The specific operation steps are as follows:

Step 1: In the main menu, choose "Config \rightarrow Easy Mode \rightarrow Event Config

→Motion Detection" to enter Motion Detection interface, as shown in Figure 5-37below.





Steps 2: Turn on motion detection and select a channel.

Steps 3: Set area, sensitivity.

✓ Use the mouse to draw the area that needs motion detection on the channel video, as shown in Figure 5-38 below.



Figure 5-38

✓ Slide the sensitivity slider to select the appropriate motion detection sensitivity.

Steps 4: Click "Arming Schedule" to enter Arming Schedule interface, as

shown in Figure 5-39 below. Draw the arming time in the drawing area, or click "Edit Time" to set the day of the week and time period 1&8.

		Linkage									
🔲 🖉 📿 Cie	& Clear ℓ Edit 🖞 Clear All										
											
						بحجر بعجر		والمراجعية ا			
Thursday											

Figure 5-39

Steps 5: Click "Linkage " to enter Linkage interface, Set normal linkageand alarm output as required, as shown in Figure 5-40 below.



Figure 5-40

Steps 6: Click "Apply" to save the setting.



- NOTE
- If you need to set motion detection for other channels, please repeat the above steps.
- After setting to enable email notification for motion detection, click "Config → Network Config →E-mail" to enter E-mail setting interface to set up the email. When the system sends a linkage alarm within the set time period, the recipient receive the alarm email.

- After enabling email notification, after setting the specific week and time period, only when the alarm is triggered within the set time period, the NVR can send an email to the set mailbox to notify the user.
- If the other channels have the same motion detection settings as that channel, click "Copy", select another channel, and copy the settings of this channel to other channels.
- **Channel:** Select to set the channel.
- Enable: Check to turn on / off motion detection alarm.
- Set Area: Select all areas by default, click to enter the area setting interface, set the range of the dynamic detection area, press and hold the left mouse button to select the alarm area. After selection, the alarm area is replaced by the red grid. Select the red grid again to cancel the alarm area setting.
- Sensitivity: According to the need, can be set 0-10 eleven file sensitivity, the higher the value, the more sensitive the device.
- Edit: Click to enter the Arming Schedule interface, you can manually set 8 time periods for recording every day, and copy the settings to other times through "Copy To".
- Buzzer Alarm: Check "" to turn on / off the buzzer alarm function.
- E-mail Notify: Check "" to turn on / off when the device alertsthe mail function.
- Channel Record: Check "" to turn on / off the channel recording function.
- Full Screen Monitoring: When an alarm is triggered on the preview interface, the real-time video of the device channel is displayed in full screen.
- Alarm Output: Select the alarm output port, it is connected to the alarm device, within the set alarm time range, when the device motion detection alarm, it will trigger an external alarm device to alarm.
- PTZ Linkage: When an alarm occurs, link the PTZ channel to the specified preset point.

Video Loss

When there is a channel losing video signal, the device will alarm and notify the user.

The specific operation steps are as follows:

Step 1: In the main menu, choose "Config \rightarrow Easy Mode \rightarrow Event Config \rightarrow Video Loss" toenter Video Loss interface, as shown in Figure 5-41 below.



Figure 5-41

Steps 2: Choose a channel, and enable the video loss.

Steps 3: Set the arming time and linkage mode as needed.

Steps 4: Click "Apply" to save the setting.

- Screen Tips: When an alarm occurs, the device pops up an alarm screen to show a warning.
- E-mail Notify: When an alarm occurs, the device will send anemail as a warning.
- Buzzer Alarm: When an alarm occurs, the device will beep to show a warning.
- PTZ Linkage: When an alarm occurs, link the PTZ channel to the specified preset point.

Alarm Input

The alarm input is the NVR alarm input port connected to the alarm device. When the alarm signal is transmitted to the NVR through the alarm input port, the system performs the alarm linkage action.

Prerequisites

Make sure the NVR alarm input port is connected to the alarm device.

The specific operation steps are as follows:

Step 1: In the main menu, choose "Config \rightarrow Easy Mode \rightarrow Channel Manage \rightarrow Event Config \rightarrow Alarm Input" to enter Alarm Input interface, as shown in Figure 5-42below.



Figure 5-42

Steps 2: Select a alarm input channel, click " Enable" ,Select alarm type and set alarm name.

Steps 3: Select the number, name and type of the alarm input, and enable it. **Steps 4:** Draw the alarm time in the drawing area, or set the alarm time through "Edit", as shown in Figure 5-43 below.



Figure 5-43

Steps 5: Click "Linkage" to set alarm linkage (regular linkage, trigger alarm
output, linkage channel, PTZ linkage), as shown in Figure 5-44 below.

Regular Linkage Introper Alarm Output IPTZ Linkage Full Screen Monitoring A-1 Linkage Channel Buzzer Alarm Preset Point I E-mial Notify Introper Alarm Alarm Introper Alarm Alarm Channel Record Introper Alarm Introper Alarm	Set Arming Schedule			
	Regular Linkage Full Screen Monitoring Buzzer Alarm E-mail Notify Channel Record	Trigger Alarm Output	PTZ Linkage Linkage Channel Preset Point	

Figure 5-44

Steps 6: Click "Apply" to save the setting.

- Buzzer Alarm: When an alarm occurs, the device will beep to show a warning.
- **E-mail Notification:** When an alarm occurs, the device will send an email as a warning.
- Screen Display: When an alarm occurs, the device pops up an alarm screen to show a warning.
- Channel Recording: When an alarm occurs, alarm channel 1, 2, 3, 4 record.
- Trigger Alarm Output: When an alarm occurs, the alarm output port of the equipment is linked to alarm.
- **Full Screen Monitoring:** An alarm is triggered on the preview interface, and real-time video is displayed on the full screen. When multiple channels are selected, the real-time video will be displayed in turn in the order of channel number.
- **Copy:** After the channel has been set up, click "Copy" to apply the setting to another channel.

* Alarm Output

The alarm output is that the NVR connects to the alarm device (such as lights, sirens, etc.) through the alarm output port. When an alarm occurs, the NVR transmits the alarm information to the alarm device.

Prerequisites

Make sure the NVR alarm output port is connected to the alarm.

The specific operation steps are as follows:

Step 1: In the main menu, choose "Config \rightarrow Easy Mode \rightarrow Channel Manage \rightarrow Event Config \rightarrow Alarm Output" to enter Alarm Output interface, as shown in Figure 5-45 below.

NVR 6.0	D	8	R	ā 🗘	₽¢			
System Config								
NetWork Config						Alarm Time		
Channel Manage		Off		alarm_out_1	5 Seconds 🗸 🗸			
Channel Config								
POE								
OSD Config								
Event Config								
Record Manage								
Easy Mode Expert Mo								

Figure 5-45

Steps 2: Select the alarm output channel and enable it, and set the delay time and alarm name.

Steps 3: Select the alarm output channel, click "" to enter the alarm output editing interface, as shown in Figure 5-46 below.





Steps 4: Draw the arming schedule in the drawing area, or set the alarm time through "Edit".

Steps 5: Click "Apply" to save the setting.

Copy: Click "Copy" to apply the alarm output port settings to other alarm output ports.

5.6.1.4 Record Manage

Record Plan

NVR supports two recording plan, drawing method and editing method.

Set the recording plan by drawing method

The specific operation steps are as follows:

Step 1: In the main menu, click "Config \rightarrow Easy Mode \rightarrow Record Manage \rightarrow Record Plan" to enter record plansetup interface, as shown in Figure 5-47 below.



Figure 5-47

Steps 2: According to the needs of recording, select channel, enable, recording type (Normal, Motion, Alarm, Intelligent), week andother options
Steps 3: Click the left mouse button to locate the starting point of the drawing area, drag the mouse to determine the time of the recording plan, release the left mouse button to save as a recording plan, as shown in Figure 5-48 below.

NVR 6.0	Ŀ	8		t / 🌣	/ 1	7 0			
System Config NetWork Config		Channel 1 Enable 🗲)						
Channel Manage Record Manage									
Record Param Record Param Storage Device								20 2	24
Easy Mode Expert Mode									

Figure 5-48

Steps 4: Repeat Steps 3 to set up a complete recording plan.

Steps 5: After the recording plan is set, the channel presents the type (color) of the recording plan, as shown in Figure 5-49 below.

NVR 6.0	Ŀ	8	đ	\$ B,				
System Config								
NetWork Config		sblo 🛑						
Channel Manage								
Record Manage								
Record Plan								
Record Param	Sunday							
Storage Device	Monday							
	Tuesday							
	Wednesday							
	Thursday							
	Friday							
	Saturday							
					More Settinos	Copy Cha		
Easy Mode Expert Mod								

Figure 5-49

FNOTE

- There are 8 time periods available for each day, and the device will start the corresponding type of recording within the set time range.
- The smallest unit of the drawing area is 1 hour.

- Press and hold the left mouse button in the drawing area, then dragthe box to select, you can edit the time period of each day of the week synchronously.
- Set the recording plan by editing method

The specific operation steps are as follows:

Step 1: In the main menu, click " Config \rightarrow Easy Mode \rightarrow Record Manage \rightarrow Record Plan" to enter record plan setupinterface.

Steps 2: Click "Edit" to enter "Modify Schedule" setting interface, as shown in Figure 5-50 below.

Modify Schedule				9 - E. 4-1				×
	Week	Sun.						
	Period1	00:00 - 00:00		0	Motion			
	Period2	00:00 - 00:00		٩	Motion			
		00:00 - 00:00		٩	Motion			
	Period4	00:00 - 00:00		٩	Motion			
	Period5	00:00 - 00:00		0	Motion	Alarm	🔲 Human	
	Period6	00:00 - 00:00		O	Motion			
	Period7	00:00 - 00:00		©	Motion			
	Period8	00:00 - 00:00		٩	Motion			
3								
			Mon.					
							Cancel	Save
							Cancel	

Figure 5-50

Steps 3: Select the recording type of each time period. There are eight time periods for setting each day. Select the corresponding week in "Save" to apply to the corresponding week.

Steps 4: Click "Save" to complete the setting, the system will return to "Record" interface.

- Record Type: Select check the box to select corresponding record type. There are Normal, Motion, Alarm, 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.

More Settings: You can set the prerecord time(s) and post-record(s), as shown in Figure 5-51 below.

Advanced Setting			×
Prerecord Time	5 Seconds	~	
Post-Record	5 Seconds	~	
		Cancel	Save



Copy Channel: After complete the setup, you can click "Copy Channel " button to copycurrent setup to other channel(s), as shown in Figure 5-52.

Сору	Channel					×
	All Channel					
	🗌 СН1	🗌 СН2	🗌 СНЗ	🗌 СН4	🗌 СН5	
	🗌 СН6	🗌 СН7	🗌 снв	🗌 СН9	🗌 СН10	
	🗆 СН11	🗌 CH12	🗌 СН13	🗌 СН14	🗌 СН15	
	🗌 СН16					
					Cancel	Save

Figure 5-52

Record Param

Record Param interface is used for recording parameter configuration.

The specific operation steps are as follows:

Step 1: In the main menu, click "Config \rightarrow Record Manage \rightarrow Record Param" to enter record param setup interface, as shown in Figure 5-53 below.

NVR 6.0	D	8	đ	₽ /	E	7 4				
		Stream Type	Resolution			Bitrate(Kb/S)	Frame Rate	Video Encoding		
		Audio/Video 🗸	2688x1512	Variable		4096	25fps	H264+		

Figure 5-53

Steps 2: Set recording parameters, please refer to Table 5-5 for specific parameter descriptions.

Name	Details	Setting
Channel	Select the channel to set recording parameters	
Record Set	There are two types of video compression parameters: Main Stream (timing) and Main Stream (Event). Main Stream (timing): Encoding parameters for ordinary recording. Main Stream (Event): encoding parameters for events such as motion detection, alarm input, and smart detection	NOTE: The event parameters cannot be set and are consistent with the timing parameters.
Resolution	Resolution refers to the number of pixels contained in a unit length.	Select through the drop-down box. NOTE: The encoding resolution is related to the IP device.

Stream Type	The stream type is Video & Audio (composite stream), and the recording information includes video and audio.	Select through the drop-down box.
Frame Rate	Video frame rate refers to the number of video frames per second	Adjust via slider.
Bitrate(Kb/S)	Set the code stream value to change the quality of the image quality, the larger the code stream, the better the image quality.	Modify it directly in the input box.
Video Encoding	H264, H265,H264+,H265+	Select through the drop-down box. NOTE: The encoding type is related to the IP device.

Table 5-5

Steps 3: Click "Apply" to save the setting.

Storage Device

The storage device is used to format the hard disk and view the hard disk's applicable status and capacity.

Disk Management

Formatting the harddrive

Prerequisites:

The user has installed the hard disk correctly. For details of the hard disk installation procedure, please refer to the "NVR Quick Start Guide".

The specific operation steps are as follows:

Step 1: In the main menu, click "Config \rightarrow Easy Mode \rightarrow Record Manage \rightarrow Storage Device" to enter storage device interface, as shown in Figure 5-54 below.

NVR 6.0	D	8	ā	\$	B,		đ	4	88	U
		Status		Total Capacity		Residual Capacity				

Figure 5-54

Steps 2: Select the hard drive that needs to be formatted, click "Format", as shown in Figure 5-55 below.

NVR 6.0		D	⊗	ā	\$	₽¢				
System Config										
NetWork Config										
Channel Manage					Total Capacity		Residual Capacity			
Record Manage										
Record Plan										
Record Param				ips						
Storage Device										
Easy Mode Expert Mo										

Figure 5-55

Steps 3: Wait for the formatting progress bar to finish, click "Close", the NVR will restart and complete the format. The status of the hard disk is "Using" at this time.

- **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 NVR,

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.



NOTE

- "No Disk" indicates that the device is not connected or the hard disk is ? not detected.
- The hard disk must be formatted first when the hard disk is connected ? to the NVR 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 NVR to takes effect.

٠ **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 Google Cloud Storage account.

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

The specific operation steps are as follows:

Step 1: On the main menu page, select " Config \rightarrow Easy Mode \rightarrow Record Manage \rightarrow Storage Device \rightarrow Cloud Storage" to enter the cloud storage setting interface, as shown in Figure 5-56.

NVR 6.0		3	đ	₽ /	₽¢		٥	the state	89	C
		•								
	Lininari Eniriar	event nicture								
	Username									
	Total Capacity									
	Used Capacity									

Figure 5-56

Steps 2: Select "Enable \rightarrow Google" to obtain the "Authorization Code". Follow the prompts to log in to the website on the computer and enter the "Authorization Code" to bind the Google server cloud service.

Steps 3: Click "Apply".

Steps 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 "Google" username, total capacity, and used space.

- **Enable:** Turn on/off the device cloud storage function.
- **Google:** Select a cloud storage type and enter the binding interface.
- **Upload Folder:** Set the upload cloud space folder name.
- **Username:** Displays the user name of the Google.
- **Total Capacity:** After the cloud storage binding is successful, the total capacity of the cloud space is displayed.
- **Used Capacity:** Cloud storage binding is successful; the display of cloud space hasbeen 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.

5.6.2 Expert Mode

5.6.2.1 System Config

Common Config

In Common Config interface, you can view and set the NVR language, time zone, date format, system time, resolution, device name, screen saver time, mouse movement speed, enable or disable daylight saving time, boot wizard, operation password function.

The specific operation steps are as follows:

Step 1: In the main menu, click "Config \rightarrow Expert Mode \rightarrow System Config \rightarrow Common Config" to enter common config interface, as shown in Figure 5-57 below.



Figure 5-57

Steps 2: Set the language, time zone, date format, daylight saving time and other information of the device as required.

- 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, Japanese, Bengali, Ukrainian and Persian, the default is English.
- Time Zone: Select the time zone of the device from the drop-down box. For example: Beijing is GMT+8:00.
- Date Format: Select the date display format, including "Day Month Year", "Month Day Year" and "Year Month Day".
- System Time: Click the time display bar to pop up the calendar and time bar, select the corresponding date and time.
- **Summer Time:**Open the daylight saving time function, set the

relevant parameters, such as Type, Date, Start Time, End Time and so on.

- Resolution: Displays the resolution of the current device output, the selectable values are 1024×768, 1280×720, 1280×1024, 1920×1080, 3840× 2160 NVR HD high-definition interface supports maximum 4K resolution output.
- Device Name: Fill in the name of the device according to actual needs, the default is NVR.
- Screen Saver Time: The default is 10 minutes, can be set range: 1 Minute, 2Minutes, 5 Minutes, 10 Minutes, 20 Minutes, 30 Minutes, 60 Minutes and Never, where "Never" for the permanent standby.
- Mouse Pointer Speed: Set the mouse movement speed.
- **Boot Wizard:** It is enabled by default, and the "Boot Wizard" is turned on, and the "Boot Wizard" interface is directly entered each time the machine is turned on.
- **Operation Password:** It is enabled by default and can enter the system without a password after it is disabled.

Steps 3: Click "Apply" to save the setting.

Preview Config

Carousel

The device supports the carousel function. After setting, the system will play video frames in turn according to the split screen. After each group of pictures is displayed for a certain time, it will automatically jump to the next group of pictures, as shown in Figure 5-58:

Step 1: Click "Config \rightarrow Expert Mode \rightarrow System Config \rightarrow Preview Config \rightarrow Carousel" on the main interface to enter the cruise setting interface, as shown in Figure 5-4 below.

Steps 2: Select the polling split screen mode, polling interval, and polling channel.

Steps 3: Click"Save".

Steps 4: In the preview interface, click the cruise button in the lower right corner of the interface or click the cruise button in the shortcut menu to start the cruise..

NVR 6.0	🖳 🛇 🛤 🗳 🗗		
	Carousel Interval 10 Seconds 🗸		

Figure 5-58

Channel

The specific operation steps are as follows:

Step 1: In the main menu, click "Config \rightarrow Expert Mode \rightarrow System Config \rightarrow Preview Config \rightarrow Channel" to enter Channel interface, as shown in Figure 5-59 below.

NVR 6.0		Þ	⊗	đ	\$ B ²				
System Config									
Common Config							Channel Name		
Preview Config			CH1		CH2		СНЗ		
User Config			CH4		СН5		CH6		
NetWork Config			CH7		СН8		СН9		
Channel Manage			CH10		CH11		CH12		
Event Config			CH13		CH14		CH15		
Record Manage			CH16						
Easy Mode Expert M	ode							Appl	y



Steps 2: Select the channel to be set, modify the channel name.

Steps 3: Click "Apply" to save the setting.

User Config



- The factory default administrator user name is admin and the password is 12345.
- Administrators can add and delete users and configure user parameters.
- The user level has two levels, the Operator and the General user.



- In order to improve the security of the product's network use, please update the product password regularly. It is recommended to update and maintain it every 3 months. If you have high security requirements for the product environment, it is recommended to update the password monthly or weekly.
- It is recommended that administrators effectively manage device accounts and user permissions, delete irrelevant users and permissions, and close unnecessary network ports.
- Administrators should configure user rights appropriately, and recommend using custom users for management in daily maintenance.

Add User

The specific operation steps are as follows:

Step 1: In the main menu, choose "Config \rightarrow Expert Mode \rightarrow System Config \rightarrow User Config" to enter User interface, as shown in Figure 5-60.

NVR 6.0	D	⊗ ∎ã	🗘 🗗	1	4 8 0
				Safety	

Figure 5-60

- User list: Displays all current users of the device; the administrator can only change its password, not its permissions.
- **Steps 2:** Click "Add" to enter the permission confirmation interface, first confirm the password, as shown in Figure 5-61below.

Permission Confirmation		×
Administrator Password		
	Cancel	Save

Figure 5-61

Steps 3: Enter the administrator password, click "Save", after the permission isconfirmed, you can enter the add user interface to add users, as shown in Figure 5-62 below.

New User		×
Level	Operator ~	
User Name		
Password		
Confirm Password		
	PermissionSet	
	Cano	Save

Figure 5-62

Steps 4: Choose a level ,enter the new user information (user name, password, confirmpassword), select the level, click "Save".

Steps 5: Setting permissions. Click the "PermissionSet" button to enter the permission setting interface, and set the user permission.

Authority Description

Authority are divided into local configuration, remote configuration, channel configuration, administrator users can enable / disable corresponding permissions as needed.

- Local Config
 - ✓ Local Param Setup: set parameters, restore default parameters, import / export parameters.
 - ✓ Local Channel Setup: Add, delete, modify, import and export configuration files for the IP channel.
 - ✓ Local User: Check the User Management interface.

- ✓ Local Disk: View and set recording plans, format storage devices.
- ✓ Local Log: View system logs, system information.
- ✓ Local Update: Upgrade the device locally.
- ✓ Local Restore Default: you could restore default parameters.
- ✓ Local Shutdown Reboot: You can shutdown and reboot the device.
- Remote Config
 - ✓ Remote Param Setup: Set parameters remotely, restore default parameters, import / export parameters.
 - ✓ Remote Channel Setup: Add, delete, modify IP channels remotely.
 - ✓ Remote User: View the User interface remotely.
 - ✓ Remote Disk: View and set recording plans, format storage devices remotely.
 - ✓ Remote Log:View system logs remotely.
 - ✓ Remote Update:Upgrade the device on the web.
 - ✓ Remote Restore Default: you could restore default parameters remotely.
 - ✓ Remote Shutdown Reboot: ou can shutdown and reboot the device remotely.
- Channel Config
 - ✓ Local Preview: Preview live video of each channel locally, this permission is detailed for each channel.
 - ✓ Remote Preview: Preview live video of each channel remotely, this permission is detailed for each channel.
 - ✓ Local Record: Set the recording plan of each channel locally, this permission is detailed for each channel.
 - ✓ Remote Record: Set the recording plan of each channel remotely, this permission is detailed for each channel.
 - ✓ Local Playback: Playback video files on NVR locally, this permission is detailed for each channel.
 - ✓ Remote Playback: Remote playback, download video files on NVR, this permission is detailed for each channel.
 - ✓ Local PTZ: this permission is detailed for each channel.
 - ✓ Remote PTZ: this permission is detailed for each channel.
 - ✓ Local Backup: Backup video files on NVR locally, this permission is detailed for each channel.Channels with local backup authority must have local playback authority.

✓ Remote Backup: remote backup the video files from NVR, this permission is detailed for each channel. A channel with remote backup authority must have remote playback authority.

NOTE

- Only the admin administrator has the right to "restore default parameters".
- Channel permissions support individual permission settings for a channel.

Steps 6: Click "Save" to save the set permissions and return to the user management interface, as shown in Figure 5-63 below.

NVR 6.0		a 🌣	B,	
System Config				
Common Config		ime Operate	Safety	
Preview Config				
User Config				
NetWork Config				
Channel Manage				
Event Config				
Record Manage				
Easy Mode Expert M				
1				

Figure 5-63

5.6.2.2 Network Config

Basic Config

✤ TCP/IP

Set the IP address, DNS server and other information of the NVR device to ensure that it can communicate with other devices in the network.



- If the device is used for network monitoring, the network must be set up for normal use.
- Factory default IP: 192.168.1.88.

The specific operation steps are as follows:

Step 1: In the main menu, click " Config \rightarrow Expert Mode \rightarrow Network Config \rightarrow Basic Config \rightarrow TCP/IP" to enter TCP/IP toset the interface, as shown in Figure 5-64 below.

NVR 6.0	D	ଷ 🛯	🌣 🗗			
System Config						
NetWork Config						
Basic Config		•		5000		
P2P				80		
E-mail		255 . 255 . 255 . 0		554		
Channel Manage				6000		
Event Config						
Record Manage						
Easy Mode Expert Mor						

Figure 5-64

Steps 2: Configure IP Address, Network Mask, Gateway, Primary DNS and other related network parameters.

Steps 3: Click "Apply" to save the setting.

- IP Address: Enter the IP address of NVR.
- Enable DHCP: Enable / disable DHCP (Dynamic Host Configuration Protocol) function. "IP Address", "Network Mask", and "Gateway" can not be set when DHCP is enabled.
- **Network Mask:** According to the actual situation set.
- **Gateway:** According to the actual situation set, with the IP address in the same network segment.
- Primary DNS: This is the DNS server IP address, which is usually provided by the local access point service provider (ISP). Enter the IP

address of your domain name server here.

- Secondary DNS: Start secondary DNS when the primary one does not work.
- MAC Address: Displays the physical address of the NVR.
- 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.
- Bitvision Port: Default value is 6000, according to the actual needs of users to set the port.
- Internal Net Card IP: Set the intranet IP address for connecting the POE device of the device.



The IP address and the default gateway must be in the same network segment.

- If NVR 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.
- Only PoE-capable devices have an internal network card function.
 Please refer to the actual product.
- The internal network adapter IP and NVR IP address cannot be on the same network segment.

DDNS

After the DDNS (Dynamic Domain Name Server) parameter is set, when the IP address of the NVR device changes frequently, the system can dynamically update the relationship between the domain name and the IP address on the DNS server. You can use the domain name to access the NVR directly without recording the constantly changing IP address.

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.

The specific operation steps are as follows:

Step 1: On the menu page, select "Config \rightarrow Expert Mode \rightarrow Network Config \rightarrow Basic Config \rightarrow DDNS" to enter the DDNS interface, as shown in Figure 5-65.

NVR 6.0		D (3	a 🖊 🛱	: / E	le.		
			•					
			ORAY					
			60					
Record Manage								
	Expert Mode							

Figure 5-65

Steps 2: Enable DDNS, select the DDNS type, and enter the refresh time (Sec), username, and password.

Steps 3: Click "Apply" to save the DDNS setting.

Steps 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.

- **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, ZEBEYE. 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 NVR is connected to the WAN to access the device through the DDNS domain name.

PPPoE

PPPoE(Point-to-Point Protocol over Ethernet) is one of the ways in which XVR devices access the network. After obtaining the PPPoE user name and password provided by the Internet Service Provider, you can establish a network connection through PPPoE dialup. After the connection is successful, the XVR device automatically obtains a dynamic IP address of the WAN.

The specific operation steps are as follows:

Step 1: In the main menu, click "Config \rightarrow Expert Mode \rightarrow Network Config \rightarrow Basic Config \rightarrow PPPOE" to enter PPPOE to set the interface, as shown in Figure 5-66 below.



Figure 5-66

Steps 2: Select "Enable", input the user name and password of the PPPoE.

Steps 3: Click "Apply" to save the configuration.

- ? **Enable:** Turn on/off the device PPPoE function.
- ? User Name: The PPPoE user name provided by the ISP (Internet Service Provider).
- Password: The password corresponding to the user name. ?



- After setting successfully, You could check the status of the PPPOE from "Config \rightarrow Expert Mode \rightarrow Network Config \rightarrow Basic Config \rightarrow PPPOE".
- ? After completing the setting, the device will automatically dial after restarting. After successful dialing, the network information can be displayed in the network status, and users can access the device through the IP address.
- ? After the configuration is complete, the IP address of the TCP/IP interface cannot be modified.

NTP *

After enable NTP (Network Time Protocol), the system can periodically adjust the device time through the NTP server to ensure the accuracy of the device system time.

The specific operation steps are as follows:

Step 1: In the main menu, click "Config \rightarrow Expert Mode \rightarrow Network Config \rightarrow Basic Config \rightarrow NTP" to enter NTP to setthe interface, as shown in Figure 5-67 below.

NVR 6.0	🖳 🛇 🛍 🍅 🗗	đ	đ	89 (0)
	Enable NTP			
	NTP Server time.nist.gov 🗸			
Channel Manage	Push interval(min) 720 (30-1440)			
Event Confin >	NTP Port. 123			
Denned Manager				
Petoro Manage 7				

Figure 5-67

Steps 2: Choose "Enable NTP" to set NTP related parameters.

- **NTP Sever:** Select the domain name of the server where the NTP service is installed.
- Customize: When the NTP server selects "Custom", enter the NTP serverdomain name manually.
- Push interval (Min): The interval of NTP time correction, the default is 720 minutes, and the settable range is 30-1440 minutes
- **NTP Port:** Select the port corresponding to the NTP server.

Steps 3: Click "Apply" to save the setting.

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.



To create an FTP user, you must set FTP folder write permission.

Otherwise, the picture will not be uploaded successfully.

The specific operation steps are as follows:

Step 1: On the main menu page, click "Config \rightarrow Expert Mode \rightarrow Network Config \rightarrow Basic Config \rightarrow FTP" to enterthe FTP interface, as shown in Figure 5-68.

NVR 6.0	D 🛇 🛍	🔅 🗗		
System Config >				
NetWork Config 🛛 🗸				
Basic Config	Enable FTP			
P2P			Sun. 🗸	
E-mail			00:00 - 00:00	
Channel Manage >			00:00 - 00:00	
Event Config >				
Record Manage >				
	Test			
Easy Mode Expert Mode				

Figure 5-68

Steps 2: Select "Enable FTP" and enter parameters such as the FTP Server, FTP Port, User Name, Password, and the File Upload path.

Steps 3: Click "Apply" to save the configuration.

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



NOTE

- If the test fails, recheck the network or FTP configuration. ?
- **Enable FTP:** Turn on / off the device FTP function. ?
- FTP Server: Host IP address of the FTP server. ?
- FTP Port: The default FTP port is 21, if your FTP server is different; you ? need to use the same port name with your FT server.
- 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 will save the uploaded image in the root directory of the FTP server.
- Enter the name of the remote directory, the system will create a folder with the corresponding name under the FTP root directory, and save the uploaded pictures in this folder.
- **Channel:** Select the channel to upload the capture file.
- **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 NVR 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 protocol, the external network user can use the external network IP address to directly access the NVR device on the intranet.

Prerequisites

1) 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 "Config \rightarrow Expert Mode \rightarrow Network Config \rightarrow Basic Config \rightarrow TCP/IP", 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 specific operation steps are as follows:

Step 1: On the main menu page, click "Config \rightarrow Expert Mode \rightarrow Network Config \rightarrow Basic Config \rightarrow UPnP" to enter the UPnP interface, as shown in Figure 5-69.

NVR 6.0	₽ ⊗	ta 🗘 🌣	B≱	a a	± 8	O
	Enable 🔵					
	External IP 0 Status Discon	. 0 . 0 . 0				
				External Port		
				Dálda		

Figure 5-69

Steps 2: Enable the UPnP function and configure related parameters such as Internal IP, External IP, and port mapping information of the UPnP route. **Steps 3:** Click "Apply" to save the configuration.

- **Enable:** Turn on/off the device UPnP function.
- Status: 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.
 - ✓ Server 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 NVR other ports repeat.
- **Delete:** Select the mapping information in the port mapping table and delete the mapping relationship.

- 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.

Block/Allow List

The Block/Allow List restricts the PC to log in to the NVR web client by filtering the IP address or MAC address. There are two types: black list and white list.

Blocklist:

1. NVR cannot connect to IPC's IP address or MAC address in the blacklist.

2. The computer with the IP or MAC address in the blacklist will not be able to log in to the NVR web page.

Allowlist:

- 1. The device can only connect to the IPC in white list.
- 2. Only IPCs in the whitelist can access the NVR.

Add Blocklist / Allowlist operation steps are shown as below:

Step 1: In the main menu, choose "Config \rightarrow Expert Mode \rightarrow Network Config \rightarrow Basic Config \rightarrow Block/Allow List " to enter Block/Allow List setting interface, as shown in Figure 5-70 below.

NVR 6.0	D	S 🖬 🗘	B≯	C 7 8 0	
		•			
		Block List 🗸			
		IP/MAC Address		Delete	

Figure 5-70

Steps 2: Choose "Restriction Type ", such as "Blocklist ".

Steps 3: Click "Add ", choose IP address(or MAC address), input IP address. Steps 4: Click "Apply", the IP address or MAC address will be added to the Blacklist of the device.



- The device supports adding up to 128 whitelists and 128 Blacklists.
- Double-click a list in the filter list to enter the add interface, you can modify the IP address or MAC address.
- When you add the Blacklist / Whitelist, the letters in MAC address can be uppercase or lowercase, and are separated by ":", such as "00: bb: f2: 00: 15".
- [®] When the IP Restriction Type is Blacklist / Whitelist, only one list is in effect at a time.
- P2P

✤ 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.



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

The specific operation steps are as follows:

Step 1: On the main menu page, click " Config \rightarrow Easy Mode \rightarrow Network Config \rightarrow P2P" to enter the P2P interface, as shown in Figure 5-71.



Figure 5-71

Step2: Make sure that the NVR accesses the external network, choose "Enable P2P \rightarrow Encryption ".

Steps 3: Click "Apply" to save the configuration.

Steps 4: The connect status shows "Online ". This indicates that P2P is enabled and can be used normally.

Connect Status: Display device P2P online status.

- **Enable:** Turn on / off device P2P function, The default is "Online".
- Encryption: Select the encryption type. After the device is enabled, all signaling communication between the device and the server is encrypted.
- Push interval(min): Set the time interval for the device to snap the alarm picture to the mobile client, and you can also select "Turn off the push" to stop the device from pushing the picture to the mobile terminal.
- Android &IOS: P2P client download link.
- SN: Displays the serial number of the device P2P. This serial number is unique.

BitVision App Client operation example

"BitVision App" provides a micro video service platform for home and business users. Users can easily view real-time video, historical video, alarm service and other services.

The specific operation 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.

Steps 2: Run the client and log in to the account (No account is required to register first).

Steps 3: Add devices to the mobile client.

After login, click "Device Management $\rightarrow \stackrel{•}{\longrightarrow} SN$ Add", Align theQR code on the device body or P2P interface to scan \rightarrow enter the device username, 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.

Steps 4: Real-time preview

In the main interface, click "Real Time" \rightarrow " \rightarrow choose the device you want to view the preview, click " Done ", choose a channel to play the real time video.

IPEYE

After enable the IPEYE for a channel of NVR, you can add the device to the IPEYE account, and view the real-time audio / video of the NVR channel through IPEYE.

The specific operation steps are as follows:

Step 1: In the main menu, choose "Config \rightarrow Expert Mode \rightarrow Network Config \rightarrow P2P \rightarrow IPEYE" to enter IPEYE setting interface, as shown in Figure 5-72 below.



Figure 5-72

Steps 2: choose "Configure channel \rightarrow Enable", click "Apply", the IPEYE client IP address will be shown on the interface, as shown in Figure 5-73 below:



Figure 5-73

Steps 2: Log in to IPEYE Client <u>http://192.168.1.88:8282</u>, 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 show in Figure 5-74

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 5-74



• New user please log in <u>http://www.ipeye.ru/</u> to register an account. **Steps 3:** Log in to <u>http://www.ipeye.ru/</u> 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.



 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.

E-mail

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

The specific operation steps are as follows:

Step 1: On the main menu page, click "Config \rightarrow Expert Mode \rightarrow Network

Config \rightarrow E-mail" to enter the E-mail setting interface, as shown in Figure 5-75.



Figure 5-75

Steps 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.

Steps 3: Click "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.

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

- **Enable:** Enable / disable mail sending.
- **SMTP Server:** Select the SMTP sever type.
- **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.
- Recipient 1/2/3: Recipient e-mail address 1/2/3.
- Subject: Please input email subject here. System support English character and Arabic number, default "XNVR_ALERT ".
- 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.

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.

5.6.2.3 Channel Manage

Channel Config

* Add Device

After adding a remote device, you can view the video screen of the remote device directly on the NVR, and perform operations such as storage and management. Different devices support different numbers of remote devices. You can add required remote devices based on actual conditions.

Prerequisites:

Before adding the device, please confirm whether the IP camera has been connected to the network where the NVR is located and set its network parameters correctly.



- The device may face network security problems when it is connected to the Internet. Please strengthen the protection of personal information and data. When you find that the device may have hidden network security risks, please contact us in time. It is recommended that you conduct a periodic network security assessment of the device. Our company can provide corresponding professional technical services.
- Please understand that you are responsible for properly configuring all passwords and other related product security settings, and keeping your username and password properly.

The specific operation steps are as follows:

Step 1: In the main menu, click "Config \rightarrow Easy Mode \rightarrow Channel Manage \rightarrow Channel Config" to enter Add Camera interface, as shown in Figure 5-76
NVR 6.0	Þ	8	tā 🖉 🌣	₽ ₽			
			Camera Name 🕴				
						Operate	

Steps 2: Click "Refresh" device will search all IP cameras in the LAN and display the searchresults, as shown in Figure 5-77 below.

NVR 6.0		Ŀ	⊗ :	la 🖊 🕻	⊁ ⊟∞			
System Config								
NetWork Config								
Channel Manage								
Channel Config								
POE								
OSD Config								
Image Config								
Privacy Mask								
Event Config								
Record Manage								
Easy Mode Expert Mode								

Figure 5-77

Steps 3: Choose the device you want to add, click "Add", asshown in Figure 5-78below.

NVR 6.0	Ŀ	⊗ 8	ā 🗳	₽¢		C &	88 (U)
				Status			
						Operate	

Figure 5-78

- Auto Add: Click NVR to modify all camera IP and other network parameters in the LAN, and connect it to NVR.
- Manual Add: Click to enter the "Channel Setup" interface. You can close the channel, switch, modify the protocol, switch the preview code stream or manually enter the device related information to add the device, as shown in Figure 5-79 .here are two methods of manually adding IP and domain name addition. When adding IPC through a domain name, only Private and ONVIF protocols are supported.

Add Manully					×
C) Refresh					
No. +	IP Addr 🕈	Port ÷		Protocol 🗘	
	IP Address				
	Protocol	ONVIF	~		
	Port				
	Username				
	Camera Password				
			Cancel	Continue Add	Add

- ✓ IP: Need to add IPC IP address.
- ✓ Protocol: Select Add Device Protocol with Onvif, Private options.
- ✓ **Port:** Access to the port used by IPC, the default is 80.
- ✓ User Name: The login user name of IPC (if the defaulted user name is not admin, please changeit 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).
- Updade IPC: Select one or more upgrade devices of the same type, insert the U disk storing the upgrade package of the device into the NVR, click "Upgrade", the system will find the upgrade package in the U disk and display it, select the upgrade package, click "Upgrade ", Upgrade IPC in batches at the same time.
- Delete: In the list of added devices, select the channel to be deleted and click the "Delete" button to delete all selected devices.
- Click and enter the channel setting interface, this functiton is the same as" manual add".
- > 🔟: Delete the current IPC from the device list.

- 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.
- D: Click to view the screen of the corresponding channel.
- POE
- POE Power Configuration

The specific operation steps are as follows:

Step 1: In the main menu, click "Config \rightarrow Easy Mode \rightarrow Channel Manage \rightarrow POE" toenter PoE Power Configuration interface, as shown in Figure 5-80 below.



Figure 5-80

Steps 2: Check the connection status and power usage of each port of POE. **Steps 3:** Click "Apply" to save the setting.

POE Bonding Configuration

The specific operation steps are as follows:

Step 1: In the main menu, click "Config \rightarrow Easy Mode \rightarrow Channel Manage \rightarrow POE" to enter PoE Bonding Configuration interface, as shown in Figure 5-81

below.

NVR 6.0		S 🖬	Ö 57	đ	the second secon	89	٩
System Config							
NetWork Config		POE Binding					
Channel Manage							
Channel Config							
POE							
OSD Config							
Image Config							
Privacy Mask							
Event Config							
Record Manage							
Easy Mode Expert Mo							

Figure 5-81

Steps 2: Select the bound channel and set the channel that the device is powered by POE, and choose "long distance" according to the actual connection distance.

Steps 3: Click "Apply" to save the setting.

OSD Config

OSD is the abbreviation of "On Screen Display", the OSD of local preview mainly includes time and channel name.

The specific operation steps are as follows:

Step 1: In the main menu, click "Config \rightarrow Easy Mode \rightarrow Channel Manage \rightarrow OSD Config" to enter OSD config interface, as shown in Figure 5-82 below.



Steps 2: Select the channel to set the OSD.

Steps 3: Set the OSD of the channel.



NOTE

- OSD includes channel name, time, text, date format, OSD position and mirror.
- The current OSD function only supports the private protocol to add the device to obtain and set.

Steps 4: Click "Apply" to save the setting.

Image Config

In Image Color interface, the Brightness, Contrast, Saturation and Sharpness of IP channel video can be adjusted, related parameters for the IPC can also be set, such as Exposure, Day And Night Mode, Backlight Compensation, White Balance, Video Adjustment, Image Enhancement.

The specific operation steps are as follows:

Step 1: In the main menu, click "Config \rightarrow Expert Mode \rightarrow Channel Manage \rightarrow Image Config" to enter Image config interface, as shown in Figure 5-83 below.



Steps 2: Select the channel for image configuration. **Steps 3:** Adjust the image parameters of the channel.



NOTE

- User can drag the slider to adjust the parameters.
- The Image adjustment, Fill light, Exposure setting, Backlight setting, White balance, Video adjustment, Image enhancement and Defog mode can be adjusted.
- Adjusting the parameters of the video will not only change the preview effect of the image, but also the video quality of the image, please operate with NOTE.

Steps 4: Click "Apply" to save the setting.

- Image Adjustment: According to the actual environment, you can adjust the brightness, contrast, saturation and sharpness of the preview screen by dragging the progress bar. You can also set the value behind the progress bar, "Brightness", "Contrast", "Saturation", "Sharpness". Valid values range from 0-255 and the default value is 128.
- **Exposure:** Here you can see the aperture type of the camera, and set the exposure time according to actual needs.
- **Day And Night:** The default is auto, the sensitivity is 3, the filtering time is 3, the light brightness is 100. When the fill light mode is "Auto", the

devicewill turn on the fill light according to the actual environment. The user can switch the fill mode to "Day", "Night" and "Scheduled switch" according to the actual video scene in the scene, and switch the sensitivity and filtering time of the device according to the fill mode. When the fill light mode is "Scheduled switch", you can set the daylight and dark time(ie, start and end fill time) and fill light brightness.

- ✓ When the fill light mode is "Day", the fill light of the device is always off, and the camera is in color mode.
- ✓ When the fill light mode is "Night", the fill light of the device is always on.
- ✓ Filter time: It is used to prevent the ambient light from getting better and the light is frequently turned on and off, and the filtering time is set. During this time period, the camera is not disturbed by ambient light.
- ✓ Light brightness: It is used to adjust the brightness of fill light, and the adjustable range is 0-100.
- White balance: The default is auto ,There are two types of switchable manual and automatic white balance, which can meet the needs of customers in different scenarios.
- Video adjustment: Here you can turn on mirroring, corridor mode and set the video format.
 - ✓ Mirror: The default is off, you can switch between vertical, horizontal, vertical and horizontal, when the device video image is upside down, you can flip the image through this menu.
 - Corridor Mode: It is disabled by default. When the corridor mode is enabled, the preview interface can be rotated by 90 degrees and 270 degrees.
 - ✓ Video Format: The default is 50HZ, you can select 60HZ in the drop-down menu, and you need to restart the device to switch the video format to take effect.
- Image enhancement: Here you can turn on and set widedynamic, digital noise reduction, distortion, defog.
 - ✓ Wide Dynamic : The default is off, and you can select Low, Middle or High from the drop-down menu.
 - ✓ Digital Noise Reduction: The default is off, and you can select Low、 Middle or High from the drop-down menu..
 - ✓ Distortion: The default is off, and you can select turn on from the drop-down menu.
 - ✓ **Defog:**The default is off, and you can select Low、 Middle or High

from the drop-down menu.

- Backlight Compensation: Used to set backlight compensation and strong light compensation.
 - ✓ Backlight Compensation: The default is off, and you can select Left,Right,Up,Down or Middle from the drop-down menu.
 - ✓ Strong Light Compensation: The default is Off, and you can select turn on from the drop-down menu.

NOTE

The camera image interface only displays the device support functions.
 The specific interface is subject to the actual product.

Privacy Mask

The function of privacy mask can block certain sensitive or privacy-related areas in the monitoring scene image.

The specific operation steps are as follows:

Step 1: In the main menu, click "Config \rightarrow Expert Mode \rightarrow Channel Manage \rightarrow Privacy Mask" to enter Privacy Mask interface, as shown in Figure 5-84



Figure 5-84

Steps 2: Select the channel for video occlusion.

Steps 3: Use the mouse to define the occlusion area in the video, as shown in Figure 5-85 below.



Figure 5-85

Steps 4: Click "Apply" to save the setting.

- **Channel:** Select Set Channel.
- Clear All: Clear all selected areas masks.
- Clear Zoom1, 2, 3: Clear the selected occlusion area 1, 2, 3.



Up to 3 occlusion areas can be set.Click clear area X to delete this area setting.

5.6.2.4 Event Config

Ordinary Event

Motion Detection

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.

The specific operation steps are as follows:

Step 1: In the main menu, choose "Config \rightarrow Expert Mode \rightarrow Event Config

→ Oradinary Event → Motion Detection" to enter Motion Detection interface, as shown in Figure 5-86 below.



Figure 5-86

Steps 2: Turn on motion detection and select a channel.

Steps 3: Set area, sensitivity.

✓ Use the mouse to draw the area that needs motion detection on the channel video, as shown in Figure 5-87 below.



Figure 5-87

✓ Slide the sensitivity slider to select the appropriate motion detection sensitivity.

Steps 4: Click "Arming Schedule" to enter Arming Schedule interface, as

shown in Figure 5-88 below. Draw the arming time in the drawing area, or click "Edit Time" to set the day of the week and time period 1&8.

	Linkage					
■ & ci						
					الكر الكر	
Thursday						

Figure 5-88

Steps 5: Click "Linkage " to enter Linkage interface, Set normal linkageand alarm output as required, as shown in Figure 5-89 below.



Figure 5-89

Steps 6: Click "Apply" to save the setting.



- If you need to set motion detection
- If you need to set motion detection for other channels, please repeat the above steps.
- After setting to enable email notification for motion detection, click "Config → Network Config →E-mail" to enter E-mail setting interface to set up the email. When the system sends a linkage alarm within the set time period, the recipient receive the alarm email.

- After enabling email notification, after setting the specific week and time period, only when the alarm is triggered within the set time period, the NVR can send an email to the set mailbox to notify the user.
- If the other channels have the same motion detection settings as that channel, click "Copy", select another channel, and copy the settings of this channel to other channels.
- **Channel:** Select to set the channel.
- Enable: Check to turn on / off motion detection alarm.
- Set Area: Select all areas by default, click to enter the area setting interface, set the range of the dynamic detection area, press and hold the left mouse button to select the alarm area. After selection, the alarm area is replaced by the red grid. Select the red grid again to cancel the alarm area setting.
- Sensitivity: According to the need, can be set 0-10 eleven file sensitivity, the higher the value, the more sensitive the device.
- Edit: Click to enter the Arming Schedule interface, you can manually set 8 time periods for recording every day, and copy the settings to other times through "Copy To".
- Buzzer Alarm: Check "" to turn on / off the buzzer alarm function.
- E-mail Notify: Check "" to turn on / off when the device alertsthe mail function.
- Channel Record: Check "" to turn on / off the channel recording function.
- Full Screen Monitoring: When an alarm is triggered on the preview interface, the real-time video of the device channel is displayed in full screen.
- Alarm Output: Select the alarm output port, it is connected to the alarm device, within the set alarm time range, when the device motion detection alarm, it will trigger an external alarm device to alarm.
- PTZ Linkage: When an alarm occurs, link the PTZ channel to the specified preset point.

When there is a channel losing video signal, the device will alarm and notify the user.

The specific operation steps are as follows:

Step 1: In the main menu, choose "Config \rightarrow Expert Mode \rightarrow Event Config \rightarrow Oradinary Event \rightarrow Video Loss" toenter Video Loss interface, as shown in Figure 5-90 below.

NVR 6.0	D	⊗	â	. / 4	⊅ / 1	5%							
System Config													
NetWork Config													
Channel Manage		Enable 🕥											
Event Config													
Ordinary Event		Linkage									2 = 48 101		
Smart Event													
Record Manage	0	2	4	6 8	10	12	14	16	18	20	22	24	
	Sunday												
	Monday												
	Wednesday												
	Thursday												
Easy Mode Expert Mi													

Figure 5-90

Steps 2: Choose a channel, and enable the video loss.

Steps 3: Set the arming time and linkage mode as needed.

Steps 4: Click "Apply" to save the setting.

- Screen Tips: When an alarm occurs, the device pops up an alarm screen to show a warning.
- **E-mail Notify:** When an alarm occurs, the device will send anemail as a warning.
- Buzzer Alarm: When an alarm occurs, the device will beep to show a warning.
- PTZ Linkage: When an alarm occurs, link the PTZ channel to the specified preset point.

Alarm Input

The alarm input is the NVR alarm input port connected to the alarm device. When the alarm signal is transmitted to the NVR through the alarm input port, the system performs the alarm linkage action.

Prerequisites

Make sure the NVR alarm input port is connected to the alarm device.

The specific operation steps are as follows:

Step 1: In the main menu, choose "Config \rightarrow Expert Mode \rightarrow Event Config \rightarrow Oradinary Event \rightarrow Alarm Input" to enter Alarm Input interface, as shown in Figure 5-91 below.

NVR 6.0	Þ	⊗	đ	\$ B.			
System Config							
Net/Work Config							
Channel Manage		Enable					
Event Config							
Ordinary Event		Arming Schedule	Linkage				
Smart Event							
Record Manage			alarm_in_1				
Easy Mode Expert Mo							

Figure 5-91

Steps 2: Select a alarm input channel, click " Enable" ,Select alarm type and set alarm name.

Steps 3: Select the number, name and type of the alarm input, and enable it. **Steps 4:** Draw the alarm time in the drawing area, or set the alarm time through "Edit", as shown in Figure 5-92 below.



Figure 5-92

Steps 5: Click "Linkage" to set alarm linkage (regular linkage, trigger alarm output, linkage channel , PTZ linkage), as shown in Figure 5-93 below.

Set Arming Schedule	Linkage	
Regular Linkage	Trigger Alarm Output	PTZ Linkage
Full Screen Monitoring Buzzer Alarm E-mail Notly Channel Record		Linkage Channel CH1 v Preset Point 1 v

Figure 5-93

Steps 6: Click "Apply" to save the setting.

- Buzzer Alarm: When an alarm occurs, the device will beep to show a warning.
- **E-mail Notification:** When an alarm occurs, the device will send an email as a warning.
- Screen Display: When an alarm occurs, the device pops up an alarm screen to show a warning.
- Channel Recording: When an alarm occurs, alarm channel 1, 2, 3, 4 record.
- Trigger Alarm Output: When an alarm occurs, the alarm output port of the equipment is linked to alarm.
- **Full Screen Monitoring:** An alarm is triggered on the preview interface, and real-time video is displayed on the full screen. When multiple channels are selected, the real-time video will be displayed in turn in the order of channel number.
- **Copy:** After the channel has been set up, click "Copy" to apply the setting to another channel.

Alarm Output

The alarm output is that the NVR connects to the alarm device (such as lights, sirens, etc.) through the alarm output port. When an alarm occurs, the NVR transmits the alarm information to the alarm device.

Prerequisites

Make sure the NVR alarm output port is connected to the alarm.

The specific operation steps are as follows:

Step 1: In the main menu, choose "Config \rightarrow Expert Mode \rightarrow Event Config \rightarrow Oradinary Event \rightarrow Alarm Output" toenter Alarm Output interface, as shown in Figure 5-94 below.

NVR 6.0	Ŀ	8	R	ā 🗘 🌣	۶¢		
System Config							
NetWork Config		Enable			Delay Time	Alarm Time	
Channel Manage		011		alarm_out_1	5 Seconds		
Event Config							
Ordinary Event							
Smart Event							
Record Manage							
Easy Mode Expert M							

Figure 5-94

Steps 2: Select the alarm output channel and enable it, and set the delay time and alarm name.

Steps 3: Select the alarm output channel, click "" to enter the alarm output editing interface, as shown in Figure 5-95 below.



Figure 5-95

Steps 4: Draw the arming schedule in the drawing area, or set the alarm time through "Edit".

Steps 5: Click "Apply" to save the setting.

Copy: Click "Copy" to apply the alarm output port settings to other alarm output ports.

Exception

Set the alarm mode of abnormal events. When an abnormal event occurs during the operation of the NVR device, the system executes the alarm linkage action. The event types supported by the device are "No Disk", "Disk Error", "Broken Network" and "IP Conflict".

The specific operation steps are as follows:

Step 1: In the main menu, choose "Config \rightarrow Expert Mode \rightarrow Event Config \rightarrow Exception" to enter Exception setting interface, as shown in Figure 5-96 below.



Figure 5-96

Steps 2: Select the event type, click " to enable the exception alarm function, choose the way for linkage(Screen Display, E-mail Notification,Buzzer Alarm) and alarm output port.

Steps 3: Click "Apply" to save the setting.

- Screen Tips: When an alarm occurs, the device pops up an alarm screen to show a warning.
- E-mail Notify: When an alarm occurs, the device will send anemail as a

warning.

- Buzzer Alarm: When an alarm occurs, the device will beep to show a warning.
- Smart Event

Line Crossing

Line crossing detection can detect whether there is an object crossing the set warning surface in the video, and perform linkage alarm according to the judgment result.

The specific operation steps are as follows:

Step 1: In the main menu, choose "Config \rightarrow Expert Mode \rightarrow Event Config \rightarrow Smart Event " to enter Smart Event setting interface.

Steps 2: Choose the channel you need to set the line crossing detection, click "Line Crossing" to enter line crossing detection setting mode, as shown in Figure 5-97 below.



Figure 5-97

Steps 3: Click "Enable \rightarrow Set ", to set the rule of line crossing detection, the specific steps are shown as below:

1. In the "Rules" drop-down list, select any rule as you need. In the "Rules" drop-down list, select any rule as you need.



Line crossing detection can set 4 rules.

2.Set the direction and sensitivity.

- Sensitivity: It is used to set the size of the control target object. The higher the sensitivity, the easier the object is judged to be the target object. The lower the sensitivity, the larger the object will be judged as the target object. The sensitivity can be set in the range of 0-100.
- Direction: There are three options: "A <-> B (bidirectional)", "A-> B", "B > A", which refers to the direction in which an object passes through the warning area to trigger an alarm.
 - ✓ "A<->B(Bidirectional) " Indicates that the alarm is triggered in both directions.
 - ✓ "A->B" Indicates that the object will trigger an alarm when it crosses from A to B.
 - ✓ "B->A" Indicates that the object will trigger an alarm when it crosses from B to A.

3.Click"Draw Rect", move the mouse to the preview screen and click the left mouse button in sequence to draw the two endpoints of the warning line.

You can modify the drawn warning line through the "Clear".

Steps 4: Click "Arming Schedule", Set the alarm arming time, as shown in Figure 5-98 below.

		Linkage					
	ing sama s						
	in in the second				يصل باعدا ا		
	and Junear I						

Steps 5: Click "Linkage", set alarm linkage as required (Buzzer alarm, email notification, channel recording, screen prompt) and alarm output and PTZ linkage, as shown in Figure 5-99 below.



Figure 5-99 Steps 6: Click "Apply" to save the setting.

Regional Intrusion

The regional intrusion function can detect whether an object in the video enters the set area, and conduct a linkage alarm based on the judgment result.

The specific operation steps are as follows:

Step 1: In the main menu, choose "Config \rightarrow Expert Mode \rightarrow Event Config \rightarrow Smart Event" to enter SmartEvent setting interface.

Steps 2: Choose the channel you need to set the regional intrusion, click "Regional Intrusion" to enter regional intrusion setting mode, as shown in Figure 5-100 below.



Figure 5-100

Steps 3: Click "Enable→Set ", to set the rule of regional intrusiondetection, the specific steps are shown as below:

1. In the "Rules" drop-down list, select any rule as you need.



NOTE

Regional intrusion detection can set 4 rules. ?

2.Set the time threshold and sensitivity.

- Sensitivity: It is used to set the size of the control target object. The ? higher the sensitivity, the easier the object is judged to be the target object. The lower the sensitivity, the larger the object will be judged as the target object. The sensitivity can be set in the range of 0-100.
- Time Threshold (s): An alarm is generated after the target enters the ? warning zone for a continuous dwell time. If the time threshold is set to 5 seconds, the target intrusion zone is triggered for 5 seconds. The range is 1-10 (seconds).

3. Click" Draw Rect", move the mouse to the preview screen and click the left mouse button in sequence to draw the endpoints of the quadrilateral warning zone to complete the zone drawing.



You can modify the drawn warning line through the "Clear".

Steps 4: Click "Arming Schedule", Set the alarm arming time, as shown in Figure 5-101 below.



Figure 5-101

Steps 5: Click "Linkage", set alarm linkage as required (Buzzer alarm, email notification, channel recording, screen prompt) and alarm output and PTZ linkage, as shown in Figure 5-102 below.

All Milling Schedu	
	Linkage Channel Offi Preset Pont 1 🗸

Figure 5-102 **Steps 6:** Click "Apply" to save the setting.

Loitering

The loitering function can detect the stay time of the target in the set area. When the stay time exceeds the set time threshold, an alarm linkage will be triggered.

The specific operation steps are as follows:

Step 1: In the main menu, choose "Config \rightarrow Expert Mode \rightarrow Event Config \rightarrow Smart Event" to enter Smart Event setting interface. **Steps 2:** Choose the channel you need to set the loitering, click "Loitering" to enter loitering setting mode, as shown in Figure 5-103 below.



Figure 5-103

Steps 3: Click "Enable→Set ", to set the rule of regional intrusiondetection, the specific steps are shown as below:

2. In the "Rules" drop-down list, select any rule as you need.



NOTE

Loitering detection can set 4 rules. ?

2.Set the time threshold and sensitivity.

- Sensitivity: It is used to set the size of the control target object. The ? higher the sensitivity, the easier the object is judged to be the target object. The lower the sensitivity, the larger the object will be judged as the target object. The sensitivity can be set in the range of 0-100.
- ? Time Threshold (s): An alarm is generated after the target enters the warning zone for a continuous dwell time. If the time threshold is set to 5 seconds, the target intrusion zone is triggered for 5 seconds. The range is 1-10 (seconds).

3. Click" Draw Rect", move the mouse to the preview screen and click the left mouse button in sequence to draw the endpoints of the quadrilateral warning zone to complete the zone drawing.



You can modify the drawn warning line through the "Clear".

Steps 4: Click "Arming Schedule", Set the alarm arming time, as shown in Figure 5-104 below.



Figure 5-104

Steps 5: Click "Linkage", set alarm linkage as required (Buzzer alarm, email notification, channel recording, screen prompt) and alarm output and PTZ linkage, as shown in Figure 5-105 below.

et Arming Schedule	
	Linkage Channel CH1 🗸



Steps 6: Click "Apply" to save the setting.

People Gathering

The people gathering function can detect the density of the human body in the set area, if it exceeds the set threshold, it will trigger an alarm linkage.

The specific operation steps are as follows:

Step 1: In the main menu, choose "Config \rightarrow Expert Mode \rightarrow Event

Config \rightarrow Smart Event" to enter SmartEvent setting interface.

Steps 2: Choose the channel you need to set the people gathering, click " People Gathering " to enter people gathering setting mode, as shown in Figure 5-106 below.





Steps 3: Click "Enable \rightarrow Set ", to set the rule of regional intrusion detection, the specific steps are shown as below:

1. In the "Rules" drop-down list, select any rule as you need.



```
Loitering detection can set 4 rules.
```

2.Set the proportion of rules.

Proportion: Represents the proportion of personnel in the entire warning area, when the proportion of personnel exceeds the set proportion value, the system alarm is triggered, otherwise the system does not alarm.

3.Click"Draw Rect", move the mouse to the preview screen and click the left mouse button in sequence to draw the endpoints of the quadrilateral warning zone to complete the zone drawing.



You can modify the drawn warning line through the "Clear".

Steps 4: Click "Arming Schedule", Set the alarm arming time, as shown in Figure 5-107 below.



Figure 5-107

Steps 5: Click "Linkage", set alarm linkage as required (Buzzer alarm, email notification, channel recording, screen prompt) and alarm output and PTZ linkage, as shown in Figure 5-108 below.

🗌 Regi				
		Linkage Channel Preset Point	сн: v	

Figure 5-108 **Steps 6:** Click "Apply" to save the setting.



When the device supports an external alarm device, the alarm processing method can trigger the alarm output.

5.6.2.5 Record Manage

Record Plan

NVR supports two recording plan, drawing method and editing method.

Set the recording plan by drawing method

The specific operation steps are as follows:

Step 1: In the main menu, click "Config \rightarrow Expert Mode \rightarrow Record Manage \rightarrow Record Plan" to enter record plansetup interface, as shown in Figure 5-109 below.

NVR 6.0	D	⊗	a	\$ / 1	74				
System Config									
NetWork Config		ble 🛑							
Channel Manage									
Event Config									
Record Manage									
Record Plan									
Record Param									
Storage Device									
Advanced Config									
						More S	ettings	Copy Channel	
Easy Mode Expert M									

Figure 5-109

Steps 2: According to the needs of recording, select channel, enable, recording type (Normal, Motion, Alarm, Intelligent), week andother options **Steps 3:** Click the left mouse button to locate the starting point of the drawing area, drag the mouse to determine the time of the recording plan, release the left mouse button to save as a recording plan, as shown in Figure 5-110 below.

NVR 6.0	Ŀ	⊗	ā	₽	/ 1	<i>7</i> ,						
System Config												
NetWork Config		nable 👅										
Channel Manage												
Event Config												
Record Manage												
Record Plan	Sunday						11 11	- []				
Record Param	Monday											
Storage Device	Tuesday		1-1-1-1-1				1	1-1				
Advanced Config	Wednesday						10 11	- <u>1</u>				
	Thursday											
	Friday				_							
	Saturday						1	1			 	
								More Co	Hinne	Conv Chaon		
Easy Mode Expert Mode										oopy-chann		

Figure 5-110

Steps 4: Repeat Steps 3 to set up a complete recording plan.

Steps 5: After the recording plan is set, the channel presents the type (color) of the recording plan, as shown in Figure 5-111 below.



Figure 5-111

NOTE

- 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 smallest unit of the drawing area is 1 hour.
- Press and hold the left mouse button in the drawing area, then drag the

box to select, you can edit the time period of each day of the week synchronously.

Set the recording plan by editing method

The specific operation steps are as follows:

Step 1: In the main menu, click " Config \rightarrow Easy Mode \rightarrow Record Manage \rightarrow Record Plan" to enter record plan setupinterface.

Steps 2: Click "Edit" to enter "Modify Schedule" setting interface, as shown in Figure 5-112 below.

Modify Schedule				×
Week	Sun.			
Period1	00:00 - 00:00	0	Motion	🛄 Human
Period2	00:00 - 00:00	©	Motion	🔲 Human
Period3	00:00 - 00:00	O	Motion	🔲 Human
Period4	00:00 - 00:00	©	Motion	Human
Period5	00:00 - 00:00	0	Motion	🗌 Human
Period6	00:00 - 00:00	©	Motion	🗌 Human
Period7	00:00 - 00:00	©	Motion	🔲 Human
Period8	00:00 - 00:00	©	Motion	🗌 Human
Сору То				
	Sun. Mon.			🗋 Sat
				Cancel Save

Figure 5-112

Steps 3: Select the recording type of each time period. There are eight time periods for setting each day. Select the corresponding week in "Save" to apply to the corresponding week.

Steps 4: Click "Save" to complete the setting, the system will return to "Record" interface.

- Record Type: Select check the box to select corresponding record type. There are Normal, Motion, Alarm, Intelligent.
- Week day: Select the week number. If you select "All", it means to the entire week, or you can select "Image" in front of the number of days to setindividual days.

More Settings: You can set the prerecord time(s) and post-record(s), as shown in Figure 5-113 below.

Advanced Setting			×
Prerecord Time Post-Record	5 Seconds	* *	
		Cancel	Save

Figure 5-113

Copy Channel: After complete the setup, you can click "Copy Channel " button to copycurrent setup to other channel(s), as shown in Figure 5-114.

Сору	Channel					×
	All Channel					
	🗌 СН1	🗌 СН2	🗌 снз	🗌 СН4	🗌 СН5	
	🗌 СН6	🗌 СН7	🗌 снв	🗌 СН9	🗌 CH10	
	🗆 СН11	🗌 CH12	🗌 СН13	🗌 СН14	🗌 СН15	
	🗌 СН16					
					Cancel	Save

Figure 5-114

Record Param

Record Param interface is used for recording parameter configuration.

The specific operation steps are as follows:

Step 1: In the main menu, click "Config \rightarrow Expert Mode \rightarrow Record Manage \rightarrow Record Param" to enter record param setup interface, as shown in Figure 5-115 below.

NVR 6.0	Þ	8	đ	•	E	T.				
		Stream Type	Resolution	Record Set		Bitrate(Kb/S)	Frame Rate			
		Audio/Video 🗸	2688x1512	Variable		4096	20fps	H264+		

Steps 2: Set recording parameters, please refer to Table 5-6 for specific parameter descriptions.

Name	Details	Setting
Channel	Select the channel to set recording parameters	
Record Set	There are two types of video compression parameters: Main Stream (timing) and Main Stream (Event). Main Stream (timing): Encoding parameters for ordinary recording. Main Stream (Event): encoding parameters for events such as motion detection, alarm input, and smart detection	NOTE: The event parameters cannot be set and are consistent with the timing parameters.
Resolution	Resolution refers to the number of pixels contained in a unit length.	Select through the drop-down box. NOTE: The encoding resolution is related to the IP device.

Stream Type	The stream type is Video & Audio (composite stream), and the recording information includes video and audio.	Select through the drop-down box.
Frame Rate	Video frame rate refers to the number of video frames per second	Adjust via slider.
Bitrate(Kb/S)	Set the code stream value to change the quality of the image quality, the larger the code stream, the better the image quality.	Modify it directly in the input box.
Video Encoding	H264, H265,H264+,H265+	Select through the drop-down box. NOTE: The encoding type is related to the IP device.

Table 5-6

Steps 3: Click "Apply" to save the setting.

Storage Device

Disk Management

The storage device is used to format the hard disk and view the hard disk'sapplicable status and capacity.

Formatting the hard drive

Prerequisites:

The user has installed the hard disk correctly. For details of the hard disk installation procedure, please refer to the "NVR Quick Start Guide".

The specific operation steps are as follows:

Step 1: In the main menu, click " Config \rightarrow Expert Mode \rightarrow Record Manage \rightarrow Storage Device" to enter storage device interface, as shown in Figure 5-116 below.

NVR 6.0		Þ	⊗	a	✿	F¢		Ø	÷	89	٩
		Management									
			Status		Total Capacity		Residual Capacity				

Figure 5-116

Steps 2: Select the hard drive that needs to be formatted,

click"Format", as shown in Figure 5-117 below.

NVR 6.0	Ø	a 🌣	₽¢	
	Status	Total Capacity	Residual Capacity	

Figure 5-117

Steps 3: Wait for the formatting progress bar to finish, click "Close", the NVR will restart and complete the format. The status of the hard disk is "Using" at this time.

- **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 NVR, the status displays "In use".

- **Total Capacity:** The total available HDD capacity, the single HDD capacitycan 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.

NOTE

- "No Disk" indicates that the device is not connected or the hard disk isnot detected.
- The hard disk must be formatted first when the hard disk is connected to the NVR for the first time or when "Not formatted" is displayed.
- The device does not need to format the hard disk when the hard diskstatus shows "In Use".
- After formatting the hard disk, restart the NVR to takes effect.

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

- 3) You need to have a Google Cloud Storage account.
- 4) Using this function, the device must be connected to an external network; otherwise it will not work properly.

The specific operation steps are as follows:

Step 1: On the main menu page, select "Config \rightarrow Easy Mode \rightarrow Record Manage \rightarrow Storage Device \rightarrow Cloud Storage" to enter the cloud storage setting interface, as shown in Figure 5-118.

NVR 6.0	🖸 🛇 🛤 🔅 🗗	۵	4	89	O
	, Enable O				
	Uolaaf Folder				

Steps 2: Select "Enable \rightarrow Google" to obtain the "Authorization Code". Follow the prompts to log in to the website on the computer and enter the "Authorization Code" to bind the Google server cloud service. **Steps 3:** Click "Apply".

Steps 4: Click "Test" to test whether the XVR can successfully upload files to the cloud server. After the binding is successful, the cloud storage interfacedisplays the "Google" username, total capacity, and used space.

- **Enable:** Turn on/off the device cloud storage function.
- **Google:** Select a cloud storage type and enter the binding interface.
- **Upload Folder:** Set the upload cloud space folder name.
- **Username:** Displays the user name of the Google.
- **Total Capacity:** After the cloud storage binding is successful, the total capacity of the cloud space is displayed.
- Used Capacity: Cloud storage binding is successful; the display of cloud space hasbeen used capacity.
- Test: After binding, click "Test" to confirm whether the binding issuccessful. If the test fails, check whether the device is properly connected to the network and the cloud storage configuration.

Advanced Config

Configure

In the configuration interface, you can view and set related information such
as NVR disk full and automatic deletion of recordings.

The specific operation steps are as follows:

Step 1: On the main menu page, click "Config \rightarrow Expert Mode \rightarrow Record Manage \rightarrow Advanced Config \rightarrow Configure" to enter the configure interface, as shown in Figure 5-119 below.



Figure 5-119

Steps 2: Set the device disk full mode and the time to automatically delete recordings as needed.

S.M.A.R.T

S.M.A.R.T is used to monitor the temperature of the hard disk, the surface material of the disk, the motor and its drive system, and analyze and predict possible problems of the hard disk.

The specific operation steps are as follows:

Step 1: In the main menu, choose "Config \rightarrow Expert Mode \rightarrow Record Manage \rightarrow Advanced Config \rightarrow S.M.A.R.T" to enter S.M.A.R.T interface, as shown in Figure 5-120 below.

NVR 6.0	D 🛇 🛤 🖊	☆ 52-	ር ዋ 88 ()
	Test Type Short 🛩		
	ID Attribute Name	Status Flags Thresh Value Lowe	est Raw Value

Figure 5-120

Steps 2: Select the hard disk to be tested and set "Test Type".

Steps 3: The device starts to detect the hard disk.

Steps 4: After the hard disk is detected, the hard disk details will be displayed in the S.M.A.R.T. information list.

S.M.A.R.TConfiguration:

- ✓ Disk No: Pull down to select the drive number.
- ✓ Test condition: Shows whether the hard disk has been detected.
- ✓ Test type: Short and extended.
- ✓ Temperature: Display hard disk temperature.
- ✓ Utility time(h): Shows how long the hard disk is used (hours).
- ✓ Self-assessment: Show whether the hard disk is passed.
- ✓ Overall-assessment: Show whether the whole hard disk through.
- **S.M.A.R.T information:** Display the hard disk information.
- Self test: Click "Self test" to detect the hard disk information.

NOTE

- Only some devices support hard disk detection. Please refer to theactual situation.
- When the self-assessment or overall evaluation results are "not passed", the hard disk must be replaced to avoid data loss.
- Through the S.M.A.R.T self test function, the user can use the

S.M.A.R.Tcommand to perform a self-test on the hard disk to detect the overall status of the hard disk.

5.7 Maintain

The maintenance interface includes system information, device upgrade, default restoration, automatic maintenance, import and export, and channel information.

5.7.1 System Message

The specific operation steps are as follows:

Step 1: On the main menu page, select "Maintain \rightarrow System Message" to enter the system information interface, as shown in Figure 5-121 below.

NVR 6.0	Ŀ	\otimes	ā	\$ ₽¢			

Figure 5-121

Step 1: Check the product model, device version number, system version number and release date of the NVR.

5.7.2 Device Upgrade

Manual Upgrade

Insert the USB device with the upgrade file into the NVR to upgrade the version of the NVR. If the device detects the upgrade file in the U disk, the information about the upgrade package (serial number, name, size, date) willbe displayed in the list.

The specific operation steps are as follows:

Step 1: Insert the USB device with the upgrade file (named

Nxx_xxNR_ALxxxx_V.x.x.x_R1.bin) into the NVR.

Steps 2: In the main menu, choose "Maintain \rightarrow Device Upgrade \rightarrow Manual Upgrade" to enter manual upgrade interface, as shown in Figure 5-122 below.

NVR 6.0	D	⊗	ā	\$ ₽¢-			
	NO 🕴 Nam						

Figure 5-122

Steps 3: Click "Refresh", choose the upgrade file, click "

Upgrade \rightarrow Confirm", wait for the interface to finish the progress bar, and the device will automatically restart to complete the upgrade.

- After several attempts to refresh, the device still cannot detect the upgrade package. Please check whether the USB disk is in good contactwith the USB interface of the device, and the upgrade file name is correct.
- NVR During the upgrade process, do not disconnect the power supply orunplug the USB drive. The system will automatically restart after the upgrade is completed. This process takes about 1-6 minutes. It is recommended to restore the factory settings after the upgrade is completed before using the NVR.

Online Upgrade

After the NVR 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.

* Automatic Online Upgrade

The specific operation steps are as follows:

Step 1: In the main menu, choose "Maintain \rightarrow Device Upgrade \rightarrow Online Upgrade" to enter automatic online upgrade interface, as shown in Figure 5-123 below.

NVR 6.0	D	⊗	ā	₽	₽¢			
System Message								
Device Upgrade								
Restore Default								
Automatic Maintenance Import And Export								
Channel Information			rent version is the late					

Figure 5-123

Steps 2: Enable "Automatic Detection".

Steps 3: Click "Apply", when there is a new version in the cloud, the system will automatically detect the version and upgrade the device at the set time.

Manual Online Upgrade

The specific operation steps are as follows:

Step 1: In the main menu, choose "Maintain \rightarrow Device Upgrade \rightarrow Online Upgrade" to enter online upgrade interface.

Steps 2: Click "Check", a prompt interface pops up, if a new version is detected, the system will prompt information about the new version. **Steps 3:** Click "Update" and wait for the device to download the upgradedfile. After the device is upgraded, the device will automatically restart.



- Before testing a new online version, make sure that the NVR is properlyconnected to the network.
- During the upgrading process, please do not cut off the power or takeoff 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.

5.7.3 Restore Default

When the NVR device runs slowly or the configuration is wrong, you can tryto solve the problem by restoring the default.

The specific operation steps are as follows:

Step 1: In the main menu, choose "Maintain \rightarrow Restore Default" to enter restore default interface, as shown in Figure 5-124 below.



Figure 5-124

Steps 2: Choose a recovery type like "Simple Recovery".

Steps 3: Click "Apply".Restore all default parameters except user password and network parameters.

Simple Recovery: Restore all default parameters except user password and network parameters.

Restore Factory Set: Restore all default parameters.

5.7.4 Automatic Maintenance

When the device runs for a long time, you can set the device to restart withinan idle time to increase the device's running speed.

The specific operation steps are as follows:

Step 1: In the main menu, choose "Maintain \rightarrow Automatic Maintenance" to enter automatic maintenance interface, as shown in Figure 5-125 below.

NVR 6.0	D	8	a	\$ Er.		Ç 4 8 (
		Automatically rebo		→ 3Hour	✓ 3Minute		

Figure 5-125

Steps 2: Select the time for "Automatic Maintenance". **Steps 3:** Click "Apply" to save the setting.



NOTE

Automatic Maintenance the system can be in accordance with the cycle at afixed time (Every Month, Every Week, Every Day) set to restart the device, you can also choose "Never", equipment is not automatically maintained.

5.7.5 Import And Export

If multiple devices need to adopt the same configuration, one device can beconfigured first, and the configuration file of the device can be "exported" and backed up, and then through the "import" operation, the configurationcan be applied to other devices to save more Configure the time.

The specific operation steps are as follows:

Step 1: In the main menu, choose"Maintain →Import And Export" to enter import and export interface, as shown in Figure 5-126 below.





Steps 2: Export/ import the configuration files.

- ✓ Config Export: Insert U disk into NVR, click "Export" and wait for the export progress to complete, click "Save".
- Config Import: Insert the U disk that stores the configuration file into the NVR, click "Import", after selecting the file, click "Open" to wait for the import process to complete and the device to restart and the configuration file to be imported.

5.7.6 Channel Information

Click "Channel Information" on the maintenance interface to enter the NVR channel information interface, where you can view the resolution of each channel and the IPC version number. As shown in Figure 5-127 below:

NVR 6.0	Ŀ	⊗ ∎	ā 🌣 🦲	5 .		

Figure 5-127

Chapter 6 WEB Operation

NOTE

- Different types of devices have different interface displays. The following pictures are for reference only. Please refer to the actual ones.
- The NVR supports accessing and managing devices on the PC through the Web.
- The WEB page provides application modules such as real-time preview, playback, configuration, and logout.
- The device supports a variety of browser monitoring, such as IE browser, 360 browser, Firefox browser, Google Chrome,Edge browser.
- Users can access the device's WEB control interface through multiplePCs at the same time.

6.1 Internet connection

Before using the browser to log in to the web interface, check whether thenetwork between the PC and the NVR is normal.

Step 1: Confirm that the NVR device is properly connected to the network.**Steps 2:** Set the IP address, subnet mask, and gateway for the PC and NVR devices, respectively.

✓ If there is no routing device on the network, allocate the IP addressof 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 NVR device is 192.168.1.88.

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

- ✓ On the PC, ping***.***.*** (NVR 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 NVR device, and fill in the IP address of the PC on the "Network Test" interface to test whetherthe network is connected. For details, see 5.3.7.7 Network Detection.

6.2 Browser Login

To make sure NVR connects to Internet successfully, open Browser, input required IP address, the default setting is 192.168.1.88, and enter the logininterface, as below Figure 6-1.



Figure 6-1

Select the system language in the upper right corner of the interface (currently supports Chinese Simplified, Chinese Traditional, English, Polish, Czech, Russian, Thai, Hebrew, Arabic, Bulgarian, German, French, Portuguese, Turkish, Spanish, Italian, Hungarian, Romance, Korean, Dutch, Greek, Vietnamese, and Japanese, Bengali, Persian, Ukrainian, the default is English), enter the user name and password, the default user name is "admin", the password is "12345", click "Login" Remote login.



NOTE

- Modify Password: After logging in to the webpage, the system prompts"The current password is too simple, please modify the password!", click "Modify", enter the new password, confirm the password, set the security question, export the key, click "OK", and complete the password modification.
- Forgot password: On the WEB login interface, click "Forget", select a verification method such as "Answer the question", select the questionset when changing the password, enter the corresponding answer, and
- Click "Next" to reset the new password as prompted. Click "Relogin" toreturn to the login interface.

 If the HTTP port is set to a port other than 80, enter "http: // IP address + :(colon) + port number" in the address bar of your browser, such as"http://192.168.1.88:96".

6.3 Active X download, installation

The browser plug-in needs to be downloaded and installed when logging into the device for the first time, as shown in Figure 6-2 below, click "Please click here to download the browser plug-in, please close the browser whenthe download is finished" and install it, and follow the prompts to complete installation.



Figure 6-2



NOTE

- After the NVR upgrades to a new version, you need to delete theoriginal control and download and install the control again.
- For WIN 7 could have problems for backup and recording, if so, pleasecheck 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", the Active X will be downloaded and installed automatically, please refer to the Figure 6-3.

	Prompt		
	lun ActiveX controls and plug-r	15	
100	Administrator approved		
0	🖯 Disable		
6	🖲 Enable		
0	Prompt		1
. 5	Gript ActiveX controls marked s	afe for scripting*	
0	🗇 Disable		
0	Enable		
. (D Prompt		
COM	nioads		
00 1	Automatic prompting for file dov	vnkoads	
	Disable		
(🗇 Enable		
08 F	file download		
-	P. Deable		
•			
Takes ef	fect after you restart Internet I	Explorer	
set custo	im settings		
and the	Medium (default)		Reset
coer to:			

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, Config, Maintain, Help, Logout, and show login user name.

2. Real-time Monitoring Channel. Open/Close Preview, record and streamswitching.

Mark	Specification
CH1-CH25	Open / close corresponding preview channel.
	Start/stop recording, save video on local computer hard drive.
tỏ Main Stream fổ Sub Stream	Main and sub bit stream switching
\$ \$	For voice calls, click to automatically connect to the device to make a real-time call. Prerequisites for local device calls: There are audio input/audio output interfaces on the local device, and both mic and speakers have been connected. Note: App and web can't talk to the local device at the same time.

Table 6-1

3. Preview channel shortcutbutton

Mark	Specification
m ~	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.
5 3	Switch all preview channel master, sub streams, and open preview
\odot	Open / Close all preview channels.
Ó	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.

۲	1 Split screen preview, click to switch channels
り く と い	Turn on / off the speaker. If the audio is not turned on, there is no sound when listening.
L.	Full-screen playback, press the keyboard Esc to exit the full screen.

Table 6-2

4. Image Config:You can select the corresponding channel, set brightness, contrast, saturation, sharpness, enable wide dynamic, mirror, corridor mode, set day and night switching mode and restore default values.

5. PTZ setting operation window

Mark	Specification
$\frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2}$	PTZ control direction button
– Zoom 🔸	Zoom button
- Focus +	Focus button
– Iris +	Iris control button
Speed — 4	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.
5	Preset point setting
•	Call presets
Ē	Delete settings

Table 6-3

6.5 Playback

In the main interface, click "Playback" to enter the playback interface, as shown in Figure 6-5 below. Here you can view the equipment video, capture, download and other actions, the settings and NVR settings consistent.

NVR so		PreView	Playback	Picture	Config	Maintain		9 4 U
0 CHI	APPENDENT BALL							≪ < 2022 year 7 month > ≫
O CH2								Sun Mon Tae Wed Thu Fit Sat
🕚 GB								2.2.2.2.2.2.2.2.2
© CH4								10 11 12 13 14 15 16
о сна								17 18 19 29 27 20 21
@ CH6								24 25 26 27 28 29 30
о сня								38 1 2 1 1 1 1
Ф СН8								File Type
© CH9								Noms
© CH10								Search
© CH11								
© CH12								
© CH13								1984 (Sec. 1997)
O CH14								
© CH15								
O CH16								
ET.00 04.00	EN 60	67.00	2023-67-22 00:90	08:27:16 82:01	-	****		13.00
C 🙁 🛎 🚇			• = > = = =				🛛 - 🕘 🕘	

Figure 6-5

Timeline: Displays the type of recording under the current conditions and the timeperiod in which it is located. In the four-picture playback mode, four playback timeaxes 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, playbackfrom that point in time.

- Layout: Click " to toggle the video playback window.
- Play/Pause: After querying the video file, click " pauseplayback of the searched video.
- Stop: When the video is played, press ¹ 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 upperright corner of the preview interface.
- **Fast Forward:** When the video is played, click " " video will be slowto 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.
- Enable Electronic Zoom: When the video is played, click "O/ O: toturn 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 on "to capture the settingsto the local configuration settings.

clip: When the video is played, click " to start recording, and thenclick Save Clip File again, which is stored in the local configuration settings.

Download: After querying the video file, click ^[] to enter the videofile 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 6-6. The "First Page", "Prev Page", "Next Page" and "Last Page" are used to scroll through all

video files. You can use "Edit" under "Set date / time manually" to intercept and download the video file.

(∳) op	en The Directory Download			: 20	022 y	ear 1	mon	h)					
	File Name	Dawn Time	Dark Time	File Size	Edit	Download Progress	Sun	Mon	Tue	Wed	Thù		Sat
□ 1	record_0003_0002_20220722000000_20220722010000	2022-07-22 00:00:00	2022-07-22 01:00:00	275.235 MB									
□ 2	record_0003_0002_20220722010000_20220722020000	2022-07-22 01:00:00	2022-07-22 02:00:00	275.235 MB									
□ 3	record_0003_0002_20220722020000_20220722030000	2022-07-22 02:00:00	2022-07-22 03:00:00	275.235 MB									
4	record_0003_0002_20220722030000_20220722035959	2022-07-22 03:00:00	2022-07-22 03:59:59	275.159 MB		1	File	Type			Norm	al	
□ 5	record_0003_0002_20220722035959_20220722045959	2022-07-22 03:59:59	2022-07-22 04:59:59	294.993 MB			Cha	nel					~
•	record_0003_0002_20220722045959_20220722055959	2022-07-22 04:59:59	2022-07-22 05:59:59	294.993 MB			P		Ś	Searc	h		
П													
Total	Total records are 12 Previous Page 1 Next Page												



- **Full Screen:** When the video is played, click " the full-screen playback video. Press "Esc" on the keyboard to exit the full-screenplayback 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 capturedon the device side. The steps are as follows:

Step 1: In the main interface, click "Picture" to enter the picture interface, asshown in Figure 6-7 below.



Figure 6-7

Steps 2: Select the channel, select the event type, and set thesearch time range.

Steps 3: Click "Search, the searched image is displayed on the right side of the interface, as shown in Figure 6-8 below.

			PreView	Playback	Picture	Config	Maintain		(a) (b)
	E Download								
Channel CH01.CH03	Select All	NO) Channel	File Name			Time	File Stre	ProView
Event Type					2 07 22_00 26 662 j	PQ			
Dawn Time					12.07.22_02.23.202;	P9		45.29%	
2022-07-22 00:00:00					12-07-22_02-23-212;	P0			
Dark Time					2.07.22_02.23.562	pg			۲
2022-07-22 23 59 59				03_0002_205	2 07 22 02 24 042 (pg			
Search					2-07-22_02-24-192 (P9			
					2-07-22_03-52-5964				
					22-07-22_03-53-2123	Pg			
					2.07.22_03.57.4664				
						PØ			
					12-07-22_03-59-292 (
					12-07-22_06-07-492 (pg			
	Total records are 575								12 Ned Page

Figure 6-8

Steps 4: Select the picture, click "Download" to select the storage path, click"OK", select the image to download to the specified folder. Click on the "O" corresponding to the preview position to view the image.

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, the drop-down box option consists of All, Manual capture, Motion capture, Face detection, Regional Intrusion, Crossover, Wandering and Staff Gathering.
- Start/End Time: The time range for capturing image files.
- Query: Click "Search", 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 "^B " is displayed in the list asdetailed information, as shown in Figure 6-8 below.
- Big icon: The image searched by clicking "" is displayed in the list asa large icon, as shown in Figure 6-9 below:



Figure 6-9

Download: Select the picture, click "Download", select the picture to download to the specified folder.

6.7 Config

6.7.1 System Config

6.7.1.1 Local Configuration

In the main interface, click "Config \rightarrow System Config \rightarrow Local Configuration" to enter the local configuration interface, as shown in Figure 6-10 below. Here you can set the device video file, capture and clip corresponding to the localcomputer's save path, click "Browse" to select the path to save, click "Apply"to complete the path settings.

NVR co		PreView	Playback	Picture	Config	Maintain	
🐔 System Config							
Local Configuration							
Common Conlig	Video File						
User Config	Recording Ne save path						
NotWork Config	Playback download save pr	•					
(he Channel Config							
(1) Event Config	Snapshots And Clips						
Becond Manage	Preview screenshol save p	•					
	Playtuck snapshot save pe	B)					
	Playback clip save path						
		ACCIV (AL) INCOME OF A					

Figure 6-10

6.7.1.2 Common Config

Device Settings

In the main interface, click "Config \rightarrow System Configuration \rightarrow Common Config \rightarrow Device Settings" to enter the device setting interface, as shown in Figure 6-11 below. Here you can set the device language, auto logout time, device name, click "Apply" to complete the setting.

NVR 6.0			PreView	Playback	Picture	Config	Maintain	۲	\$ 0
System Config Local Configu	ration	Device Settings Date S	oting Summer Time						
Common Con	Ng	Language Selection	Engkih *						
User Config		Auto Logost	10 Minute 👻						
NetWork Config		Device Name	N/B						
E Event Config			hapty						
Record Manage									

Figure 6-11

Date Setting

In the main interface, click "Config \rightarrow System Configuration \rightarrow Common Config \rightarrow Date Setting" to enter the date setting interface, where you can set the device time, as shown in Figure 6-12.

NVR 6.0		PreView	Playback	Picture	Config	Maintain	4
8 System Config							η
Local Configuration	Davide Settings Date Set	ang Summer Time					4
Common Config		(GMT+08.00) Beijing, Unur 🗸					4
User Config		YYYYM400 ~					4
NetWork Config							4
🏂 Channel Config	NTP Collocation Time						Γ
Event Config	NTP Server Address	tme.nist.gov ~					Γ
Record Manage	Customize						4
							4
	Update interval (minutes)		(30-1440)				4
							4
	Manual Timing						4
							4
	Sync With Computer						4
							4
		Apply					4
							Γ
							Г

Figure 6-12

【Time Zone】 Displays the current device selection time zone.

【Date Format】 Select the date format, such as YYYY/MM/DD.

【NTP Calibration Time】 The NVR time will synchronization with network, and you can change the different time zones. (This feature requires that NVR network environment can connect to the Internet.) Click on the "Apply" after completing the settings.

【NTP Sever Address 】 SNTP server address, including "time.windows.com", "time.nist, gov", "time-nw.nist.gov", "timea.nist.gov", "time-b.nist.gov" Optionally.

【Custom】 "Custom" enter the NTP server address.

[NTP server port] Enter the custom NTP server port.

【Update interval 】 The time interval between the NVR and the NTP server is 720 minute by default. You can set "30~1440".

【Manual Timing】 After opening, you can manually set the date and time of the NVR.

【Set Time】 Manually set the date and time of the device, click "Apply" after the setting is complete.

【Synchronize with computer time】 After selecting, click Apply, the NVR time is synchronized with the time on the currently connected local computer.

Summer Time

Daylight saving time(DST) refers to the system of artificially stipulating local time for energy conservation. The unified time used during the implementation of this system is called "DST". In the System Configuration interface, click "DST" to enter the daylight saving time

setting interface, where you can enable daylight saving time, set daylight saving time, end time and end time, as shown in Figure 6-13



Figure 6-13

6.7.1.3 User Config

In the main interface, click "Config \rightarrow System Configuration \rightarrow User Config" to enter the User management interface, as shown in Figure 6-14 below. Here you can add, delete, edit users, user settings are consistent with the local settings of NVR.

NVR 6.0		PreView	Playback	Picture	Config	Maintain		0	Ċ
System Config Local Configuration	User Management	Online User							
Common Config	Add User								
User Config	NO	Usor Name	Use	и Туре		Operate	Permission		
NetWork Config									
(h) Channel Config									
Event Config									
Recet Manage									

Figure 6-14

6.7.2 NetWork Config

6.7.2.1 Basic Config

■ TCP/IP

In the main interface, click "Config \rightarrow Network Config \rightarrow Basic Config \rightarrow TCP/IP" to enter theTCP/IP setting interface, as shown in Figure 6-15 below. Here you can set the IP Address, Network Mask, Gateway, Port, DNS and other network information, the TCP/IP setting is consistent with the NVR local setting.

NVR 6.0		PreView	Playback	Picture	Config Maintain	
5 System Conto	700.00			The second diversion of the		
NotWork Confi	10-7/1- 00	INS ITTOE	FIP Unite	internet black And Vi	me da	
Basic Config		тсрир		Internal Net Card IP		
P2P		Enable DHCP	IP Address	192.168.11.2		
E-meil	IP Address(IPV4)	192.168.19.101				
(hannel Confi	Network Mask	255.255.255.0				
📋 Event Config	Gatrway	192.168.19.1				
Record Manag	Primary DNS	211.136.192.6				
	Secondary DNS	114.114.114.114				
	MAC Address					
		Port				
	RTSP Port	554				
	HTTP Pod	: 80				
	TCP Port	5000				
	BITUISION PAR	1 4010				
		Apoly				

Figure 6-15

DDNS

In the main interface, click "Config \rightarrow Network Config \rightarrow Basic Config \rightarrow DDNS" toenter the DDNS setting interface, as shown in Figure 6-16 below. Here you can enable and set the DDNS function, the DDNS setting is consistent with the NVR local setting.

N	VR 6.0		PreView	Playback	Picture	Config	Maintain	۲	æ	Ċ
15	System Config	70000 000			5-0 11					
۲	NotWork Config		IS PPPOE	rir u	rnir mienieko	ack And White List				
	Basic Config		Enable							
		DDNS Type	ORAY ~							
	E-mail	Refresh Time(Sec)	60							
*	Channel Config	User Name								
8	Event Config	Password								
	Record Manage	Domain Name								
			Aqov							ľ

Figure 6-16

PPPoE

In the main interface, click "Config \rightarrow Network Config \rightarrow Basic Config \rightarrow PPPoE" to enter the PPPoE setting interface, as shown in Figure 6-17 below. Here you can enable and set the PPPoE function, the PPPoE setting is consistent with the local settings of NVR.



Figure 6-17

■ FTP

In the main interface, click "Config \rightarrow Network Config \rightarrow Basic Config \rightarrow FTP" to enter the FTP setting interface, as shown in Figure 6-18 below. Here you canenable and set the FTP server function.The FTP settings are the same as theNVR local settings.

NVR 6.0		PreView	Playbac	ik Picturi	Config	Maintain	۲	æ	
5 System Contig		000+6	CT0	UD-D Dies	ed Disck And White Let				
NetWork Config	UDINS	PPTOE		Urme men	NET DIRECK ANNO WITHIN LISE				
Basic Config		Enable							
P2P	FTP Server 0	100							
E-mail	FTP Port 2								
🏂 Channel Config	User Name								
Event Config	Password								
Record Manage	File Directory								
	Channel Select e	101 V							
	Weeks Fi								
	Time Period 1 00	.00-00:00							
	Time Period 2 0	. 00 - 00 : 00 🖄							
		4							
		Appy tost							

Figure 6-18

■ UPnP

In the main interface, click "Config \rightarrow Network Config \rightarrow Basic Config

 \rightarrow UPnP" to enter the UPnP setting interface, as shown in Figure 6-19 below. Here you can enable and set the UPnP function, UPnP settings are consistent with theNVR local settings.



Figure 6-19

Internet Black And White List

In the main interface, click "Config \rightarrow Network Config \rightarrow Basic Config \rightarrow Internet Black And White List" to enter the Internet Black And White List setting interface, as shown in Figure 6-20 below. Here you can enable and set the Internet Black And White List function, Internet Black And White List settings are consistent with the NVR local settings.

NVR 6.0			PreView	Playba	ck	Picture	Config	Maintain				
5 System Contg	TODOD	0005				harmond Direct of						
NetWork Config	TOPHP	UUNS	PPPOE		Urne	Internet black A	and winite List					
Basic Config	Enable											
P2P	NO		Enable			IPIMAC Address			Operate			
E-mail												
🏂 Channel Config												
Event Config										Aaa	Арр	v
Record Manage												

Figure 6-20

6.7.2.2 P2P

P2P

In the main interface, click "Configuration \rightarrow System \rightarrow Network \rightarrow P2P" to enter the P2P setting interface, as shown in Figure 6-21 below. Here you can enable / disable the P2P function, check the serial number of the device, use the mobile phone to scan the QR code to download the App, and the settingsof the P2P are consistent with the local settings of the NVR.



Figure 6-21

IPEYE

Click "Configuration \rightarrow Network Configuration \rightarrow P2P \rightarrow IPEYE" on the main interface to enter the IPEYE setting interface, as shown in Figure 6-22 below, and the settings of the IPEYE are consistent with the local settings of the NVR.

NVR 6.0			PreView	Playback		Picture Config M		Maintain		۵ ۵		
System Config	270 89	WE										
NetWork Config												
Basic Config	Enable	•0										
P2P	Channe											
E-mail												
(he Channel Config												
Event Config	IPEYE Client Address											
Record Manage												
		Apply										

Figure 6-22

6.7.2.3 E-mail

In the main interface, click "Configuration \rightarrow System \rightarrow Network \rightarrow E-mail" to enter the email setting interface, as shown in Figure 6-23 below. Here you can open and set the mail function, mail settings and NVR settings consistent.

NVR			PreView	Playback	Picture	Config	Maintain		
System S NetWo	n Config rk Config		Turn on email alert notifica	ations					
Basi	c Config		Sender		Recipient				
P2P		Custom	NVR_ALERT	Recipient1		Mail Test			
E-m	ail	From Address		Recipient2					
🏂 Chann	el Config	SMTP Server	Customize ~	Recipient3					
📋 Event i	Config	Customize	smtp.MaitServer.com						
Record	d Manage	SMTP Port	465						
			Appendix						
		Encryption Type	55L ×						
		User Name							
		Password							
		Confirm Password							
			Apply						

Figure 6-23

6.7.3 Channel Config

6.7.3.1 Channel Config

In the main interface, click "Config \rightarrow Channel Config \rightarrow Channel Config" to enter the add camera interface, as shown in Figure 6-24 below. Here you can add, edit, and delete devices to the device as needed. The relevant parameters are consistent with the NVR-side settings.

NVR 6.0			PreView	Playback	Picture	Config	Maintain			a	0
5 System Contig	Added Device List	🗄 Add Manually 🔅									
NefWork Config	C Select All	Camero Name	IP Ad	ress	Port	Protocol		Status	Operate		
(% Channel Config				68 11 5		Private					
Channel Config				68.11.6		Private					
POE	Online Device List	🕀 Add 🔿 Retrest									
OSD Config	Select All	IP Adress		Port		Protocol		Operate			
Channol Name											
Image Config											
Privacy Mask											
Event Config											
Record Manage											

6.7.3.2 POE

POE Power Information

In the main interface, click "Config \rightarrow Channel Config \rightarrow POE \rightarrow POE Power Information" to enter the POE Power Information interface. Here you can check the connection status of the channel, as shown in Figure 6-25 below.



Figure 6-25

POE Channel Setting

In the main interface, click "Config \rightarrow Channel Config \rightarrow POE \rightarrow POE Chennel Setting" to enter the POE Channel Setting interface. Hereyou can set each PoE port to bind with the camera and set according to the distance of the network camera connected to the actual PoE channel, as shown in Figure 6-26 below.

E System Carely >			Playback	Picture	Config	Maintain	
🔮 NetWork Conlig 🔰 —	DOD Downey Subjemention						
	PUC POWER STORESDO	Pos channel setting					
🎠 Channel Config 🛛 🗸 🗍	Channel	POE Binding	: 🗋 Long Distance				
Dennel Contra							
OSD Config							
Chernel Name							
Image Config							
Privacy Mark							
Event Config > 4 In Forcond Manager >	Note in long dataset med	e, 8 in monemended in connect a ca	enn vill a noddorrol god	er Ihan 4687.			

Figure 6-26

6.7.3.3 OSD Config

In the main interface, click "Config \rightarrow Channel Config \rightarrow OSD Config" to enter the OSD config interface, as shown in Figure 6-27 below. Here you can view andset the device text, date and other related information, the relevant parameters are consistent with the NVR-side settings.



Figure 6-27

6.7.3.4 Channel Name

In the main interface, click "Config \rightarrow Channel Config \rightarrow Channel Name" to enter the channel name setting interface, as shown in Figure 6-28 below.Here you can view and modify the names of all channels of the NVR. Therelevant parameters and NVR-side settings consistent.

NVR 6.0		PreView	Playback	Picture	Config	Maintain	
5 System Config	Charnel1	СН1					
NotWork Config	Charnet2	сна					
Channel Config	Charneth	cia					
POE	Charneld	СНИ					
OSD Config	ChannelS	015					
Channel Name	Charnel?	CH7					
Image Config	Charnell	СН8					
Privacy Mask	Charnel9	Снэ					
Record Manage	Channel10	CHID					
	Chainett	CHII					
	Channel13	CHI3					
	Channel14	CH14					
	Channel15	CHIS					
	Channel15	Сня					
		Apply Restore Defi	ault				

Figure 6-28

6.7.3.5 Image Config

In the main interface, click "Config \rightarrow Channel Config \rightarrow Image Config" to enter the Image setting interface, as shown in Figure 6-29 below. Here you can view and set the channel image (brightness, contrast, saturation and sharpness), exposure, day and night mode, white balance, video adjustment, image enhancement and backlight compensation. The relevant parameters are consistent with the local settings of the NVR.



Figure 6-29

6.7.3.6 Privacy Mask

In the main interface, click "Config \rightarrow Channel Config \rightarrow Privacy Mask" to enter the privacy mask setting interface, as shown in Figure 6-30 below. Hereyou can set three shielding areas, and the relevant parameters are

consistent with the NVR-side settings.



Figure 6-30

6.7.4 Event Config

6.7.4.1 Ordinary Event

Motion

In the main interface, click "Config \rightarrow Event Config \rightarrow Ordinary Event \rightarrow Motion" to enter the motion detection setting interface, as shownin Figure 6-31 below. Here you can view and set device motion detection related information. The relevant parameters are consistent with the local settings of the NVR.



Figure 6-31

Video Loss

In the main interface, click "Config \rightarrow Event Config \rightarrow Ordinary Event \rightarrow Video Loss" to enter the video loss setting interface, as shown in Figure 6-32 below. Here you could enable channel video loss and set the corresponding alarm when the video is lost. The relevant parameters are consistent with the local settings of the NVR.

NVR 60		PreView	Playback	Picture	Config	Maintain	۲	
🐻 System Config	Notes - Apple 1 and	P	North March Char	Desertes				
NetWork Config	Molion Video Loss	buzzer	Aam in Aam Oupu	с схонрион				
(here the second	Channel Select CH01							
Event Config	🙎 Eneble							
Ordinary Event	Arming Schedule Linkage							
Smart Event								
Record Manage	Sunday			0				
	Nonday			Ø				
	Tuesday							
	Wadnesday							
	Thursday							
	Fiday							
	Seturday			0				
	Delote Delote Al	Select A8						
	Anth							

Figure 6-32

Buzzer

In the main interface, click "Config \rightarrow Event Config \rightarrow Ordinary Event \rightarrow Buzzer" to enter the buzzer alarm setting interface, as shown in Figure 6-33below. Here you could set the duration of the buzzer alarm. The related parameters are consistent with the local settings of the NVR.

NVR 60			PreView	Playback	Picture	Config	Maintain	G	
🐻 System Config									
NetWork Config	>	XN Video Loss	Buzzer Alar	n in Alarm Outp	ut Exception				
5 Channel Config		Delay Time S Second	s *						
Event Config		An	ly Tost						
Ordinary Event									
Smart Event									
Record Manage									

Alarm In

In the main interface, click "Config \rightarrow Event Config \rightarrow Ordinary Event \rightarrow AlarmInput" to enter the Alarm Input interface, as shown in Figure 6-34 below. Here you can set the alarm input of the device to the alarm of the external alarm device. The alarm input setting is consistent with the local setting of the NVR.

NVR 60		PreView	Playback	Picture	Config	Maintain	۲	\$ Ċ
🐻 System Config	Mellon Mellon	ere Botter	Alarm In Alarm Outre	d Exception				
S NetWork Config	MOUT VIEO L	055 00220	Alarin III Alarin Outp	at Exception				
🏂 Channel Config	Channel Select CH01							
Event Config	🧟 Enable							
Ordinary Event	Set Arming Schedule	Linkaga						
Smart Event	Channel Name	where just						
Record Manage		NC Y						
	Acov							

Figure 6-34

Alarm Out

In the main interface, click "Config \rightarrow Event Config \rightarrow Ordinary Event \rightarrow Alarm Output" to enter the Alarm Output interface, as shown in Figure 6-35 below. Here you can set the alarm output of the device to the alarm of the external alarm device. The alarm output setting is consistent with the local setting of the NVR.

NVR 6.0			PreView	Play	/back	Picture	Config	Maintain	۲	ው ወ	
🐻 System Conlig	Motion	Video Loss	Bigzer	Aiarm In	Alarm Output	Exception					
NetWork Config											
🎥 Channel Config	NO	Enable		Alarm Name	Dels	iy Time	Alarm Time				
📋 Event Config		on ~		alarm_out_1	5 Se	conds					
Ordinary Event											
Smart Event											
Record Manage											

Figure 6-35

Exception

In the main interface, click "Config \rightarrow Event Config \rightarrow Ordinary Event \rightarrow Exception" to enter the exception setting interface, as shown in Figure 6-36 below.Here you could set the abnormal alarm (No Disk, Disk Error, Broken Network, IP Conflict). The abnormal alarm is consistent with the local settingof NVR.

NVR 6.0		PreView	Playback	Picture	Config	Maintain		
🐻 System Config	Mellon Mela	les Buzzer	Alarm In Alarm Detroid	Exception				
NetWork Config		Caso Chacon		-				
(here it is the second	Event Type No Dok ~							
Event Config	Enable							
Ordinary Event	🗌 Regular Linkage	Alarm Output Linkage						
Smart Event								
Record Manage	Email Notity							
	Apply							

Figure 6-36

6.7.4.2 Smart Event

Line Crossing Detection

In the main interface, click "Config ${\rightarrow}\mathsf{Event}$ Config ${\rightarrow}\mathsf{Smart}$ Event ${\rightarrow}$ Line

Crossing Detection" to enter the Crossover detection setting interface, as shown in Figure 6-37 below. Here you could set the alarm for crossover detection. Therelevant parameters are consistent with the local settings of the NVR.



Figure 6-37

Regional Intrusion

In the main interface, click "Config \rightarrow Event Config \rightarrow Smart Event \rightarrow Regional Intrusion" to enter the regional intrusion detection setting interface, as shown in Figure 6-38 below. Here you could set the alarm for regional intrusion detection. The relevant parameters are consistent with the local settings of the NVR.



Figure 6-38

Loitering

In the main interface, click "Config \rightarrow Event Config \rightarrow Smart Event \rightarrow Loitering" to enter the Wandering detection setting interface, as shown inFigure 6-39 below. Here you could set the alarm for people stay detection. The relevant parameters are consistent with the local settings of the NVR.



Figure 6-39

People Gathering

In the main interface, click "Config \rightarrow Event Config \rightarrow Smart Event \rightarrow People Gathering" to enter the people gathering detection setting interface, as shown in Figure 6-40 below. Here you could set the personnel gathering detection alarm, the relevant parameters are consistent with the local settings of the NVR.


6.7.5 Record Manage

6.7.5.1 Record Plan

In the main interface, click "Config \rightarrow Record Manage \rightarrow Record Plan" to enter the record plan setting interface, as shown in Figure 6-41 below. The relevant parameters are consistent with the local settings of the NVR.



Figure 6-41

6.7.5.2 Record Param

In the main interface, click "Config \rightarrow Record Manage \rightarrow Record Param" to enter the record param setting interface, as shown in Figure 6-42 below. The relevant parameters are consistent with the local settings of the NVR.

NVR 6.0			PreView Pla	yback Picture	Config	Maintain		۵ 🕄	
🐻 System Config		0.1.0mm							
S NotWork Config	Main Stream	Sub Steam							
(h) Channel Config	Channel	Stream Type	Resolution	Record Set	Bitrale(Kb/S)	Frame Rate	Video Encoding	
Event Config		Video & Audio 🗸	2588x1512	 Variable 	2048		25 ~	H2N5+ ~	
Record Manage									
Record Plan	vtely								
Record Param									
Storage Device									
Advanced Config									

Figure 6-42

6.7.5.3 Record Device

Disk Management

In the main interface, click "Config \rightarrow Record Manage \rightarrow Storage Device \rightarrow Disk Management" to enter the disk management interface, as shown in Figure 6-43 below. Here you can view the HDD information of the connected device and format the harddisk. The operation steps of formatting the hard disk are consistent with the local settings of the NVR.

NVR 6.0		PreView	Playback	Picture	Config	Maintain	۵	Ċ
🐻 System Config	Disk Management Circuil Store							
NotWork Config		ne						
🏇 Channel Config	🗘 Refresh 🕮 Format							
Event Config	Select Al	NO	Status	Total Capacity		Residual Capacity	Device Type	
Record Manage								
Record Plan								
Record Param								
Storage Device								
Advanced Config								

Figure 6-43

Cloud Storage

In the main interface, click "Config \rightarrow Record Manage \rightarrow Storage Device \rightarrow Cloud Storage" to enter Cloud Storage setting interface, as shown in Figure 6-44 below. Here you could enable and set the function of Cloud Storage , the specific setting steps are consistent with the NVR local settings.

_									
N	VR 6.0		PreView	Playback	Picture	Config	Maintain	0	С
5	System Config		A 111111						
۲	NetWork Config	Usk Management Cloud	i storage						
-	Channel Config		🛄 Enable						
8	Event Config		Google	Get					
	Record Manage	Cloud URL							
	Record Plan	Verification Code		Binding					
	Record Param								
	Storage Device	Upload Directory							
	Advanced Config	User Name							
		Total Capacity							
		lund County							
		Crist Capitaly							
			Test Refi	esh Apply					
Γ									

Figure 6-44

6.7.5.4 Advanced Config

Config

In the main interface, click "Config \rightarrow Record Manage \rightarrow Advanced Config \rightarrow Config" to enter Config setting interface, as shown in Figure 6-45 below. In the configuration interface, you can view and set related information such as NVR disk full and automatic deletion of recordings, the specific setting steps are consistent with the NVR local settings.

NVR 6.0		PreView	Playback	Picture	Config	Maintain	2	
🐻 System Config								
NotWork Config	Comig S.M.A.	R 1						
(here the second		Auto Covered 🛛 👻						
Event Config	Auto Delete Recordings	Not Limited ~						
Record Manage								
Record Plan		Арру						
Record Param								
Storage Device								
Advanced Config								

Figure 6-45

S.M.A.R.T

In the main interface, click "Config \rightarrow Record Manage \rightarrow Advanced Config \rightarrow S.M.A.R.T"to enter the S.M.A.R.T setting interface, as shown in Figure 6-46

							Ū.			
NVR 6.0		P	eView Play	yback F	Picture C	onfig Main	tain		۲	\$ \$
5 System Config										
Souther Contig	Coning	SMAR.I								
🏇 Channel Config			 Test Condition 	Complete						
Event Config	Test Type	Short	 Self-Assessment 							
Record Manage	Temperature		Overall-Assessment							
Record Plan	Utility Time(h)									
Record Param	S.M.A.R. Tinformatio	n								
Storage Device	NO	Attribute Name	Stat	us II	Flags (Thresh	Value	Lowest	Raw Value	
Advanced Config		Raw_Read_Error_Rate								
		Reallocated_Sector_Ct								
					46					
		Power_On_Hours								÷
		Calibration_Retry_Coun								

below. The relevant parameters and NVR-side settings consistent.

Figure 6-46

6.8 Maintain

6.8.1 System Message

In the System Configuration interface, click "System Message" to enter the device information configuration interface, where you can view the basic information of the current device, as shown in Figure 6-47:



Figure 6-47

[Device Name] The name of the current NVR.

[Product Number] Product model of the current NVR.

[Device Version Number] P2P version number of the current device.

【WEB Version】 The current page version of the IPC.

【Version Number】 The firmware version of the current NVR.

[Release Date] Release date of the current program.

【Control Version】 The LsNXVRPlugin version of the NVR.

【Total Number Of Channels 】 The total number of channels on the current NVR.

6.8.2 Device Upgrade

In the Maintain interface, click "Device Upgrade" to enter the device upgrade interface, where you can manual upgrade, online upgrade, as shown in Figure 6-48.

NVR 6.0		PreView	Playback	Picture	Config	Maintain	0	
System Message								
E Device Upgrade								
Restore Default								
Automatic Maintenance	Upgrade File				Browse	Upgrade		
Import And Export								
Channel Information								
🖽 Log	Current Version	N0016_32NR_ALH1P8_	V2.0.1.220707_R1					
	Automatic Detection	•0						
	Check For Updates	Check						

Figure 6-48

【Manual Upgrade】Clicking "Browse" to add upgrade file package, and upgrading the NVR program. (Please careful operation, the error of upgrade file will cause equipment system operate abnormally).

【Online Upgrade】 To determine the device connected to the network, check the current version number, click on the "Check", such as the pop-up prompts the latest upgrade version, whether to download, click "OK", the device began to download the upgrade version to complete the automatic upgrade. Click "Cancel" to cancel the upgrade.

【Automatic Detection】 To determine the device connected to the network, the device will automatically detect whether there is the latest upgrade version, such as the pop-up prompts the latest upgrade version, whether to download, click "OK", the device began to download the upgrade version to complete the automatic upgrade.

Click "Cancel" to cancel the upgrade.

6.8.3 Restore Default

In the maintain interface, click "Restore Default" to enter the device recovery default interface, where you can reset device parameters and reset all the parameters to the factory default, as shown in Figure 6-49.

				,		0	
NVR 6.0	PreView	Playback	Picture	Config	Maintain	۲	
📰 System Message							
Device Upgrade							
Restore Default	Simple Recovery						
Automatic Maintenance	Restore Factory Set						
Import And Export							
Channel Information							
🔛 Log							

Figure 6-49

【Simple Recovery】 Restore all default parameters except user password and network parameters.

【Restore Factory Set】 All parameter settings of NVR will be automatically restored to the factory parameter settings (please operate this function carefully).

6.8.4 Automatic Maintenance

In the maintain interface, click "Automatic Maintenance" to enter the scheduled reboot settings interface, where you can set the time for the device to restart, set the restart "cycle" in the drop-down menu, for example, set "3:03 on the 3rd of each month" restart, click "Application", IPC will be at 3 o'clock on the 3rd 3 times a reboot. As shown in Figure 6-50.



Figure 6-50



?

NOTE

If used the default configuration to restart the device, in order to avoid overloading the server due to excessive device restarts at the same time, the background processing logic of the device is to restart randomly within 1 hour.

6.8.5 Import And Export

In the maintain interface, click "Import And Export" to enter the device parameters import and export interface, where you can export device parameters or import the parameters file to NVR, as shown in Figure 6-51.



Figure 6-51

6.8.6 Channel Information

In the maintain interface, click "Channel Information" to enter the NVR channel information interface, Here you can view the resolution of each channel and the version number of the IPC, as shown in Figure 6-52.

NVR 6.0		PreView	Playback	Picture	Config	Maintain	۲	\$ Ċ
System Message	NO	Channel Name	Resolution		IPC Version			
Restore Default								
Ø Automatic Maintenance								
Import And Export	Total records are 2							
O Channel Information								
E la								

Figure 6-52

6.8.7 Log

In the maintain interface click on the "Log" into the log search interface, where you can query the device alarm and all other relevant information. As shown in Figure 6-53.

NVR 6.0		PreView	Playback	Picture Config	Maintain	😨 🚓 🙂	
 System Message Device Upgrade 	Log Type Ail Logs	Dawn Time 200	22-07-25 00:00 00 10	Dark Time 2022-07-25 23 59 59 🛱	Search Clear All	Export	
Restore Default	NO	Time		Event		User Name	
Automatic Maintenance		2022/07/25-14:52:10 CH[1]Mol		CH[1]Motion Alarm	CH[1]Motion Alarm		
Import And Export		2022/07/25-14-51-55		CH[1]Lotering Alarm		system	
Channel Information		2022/07/25-14-51-36		CH[1]Motion Alarm		system	
🖺 Log		2022/07/25-14-51:24		CH[1]Motion Alarm		system	
				CH[1]Lotering Alarm			
				CH[1]Motion Alarm			
				CH[1]Motion Alarm		system	
		2022/07/25-14:49:58		CH[1]Motion Alarm		system	
		2022/07/25-14:49:53		CH[1]Lottering Alarm		system	
		2022/07/25-14:49:49		CH[1]Motion Alarm		system	
		202207725 14 49 29		Chill Takohon Alarm		system	
		2022/07/25-14:49:07		CHI1Motion Alarm		system	
	Total records are 1,024					3 4 5 21 Noxt Page	



[Search] Set the date and start time of the log query, click "Search",

the log list shows the IPC execution record that meets the conditions.

【Clear All】 Clicking clear button to empty all logging.

[Export] Save the contents of the current log to the location you specified in txt format.

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 thedata 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 NVR in specification.

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

Answer: When the administrator forget password, kindly please get in touchwith our technical staff. The easy to remember and relatively safe passwordis 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 NVR is working? **Answer:** It will produce some heat when NVR is working, kindly please put the NVR in the place where is safe and ventilated to stop the stability and lifeof the system be affected due to long-term high temperature of NVR.

4. Whether can use if i install the hard disk drive of computer to NVR? **Answer:** If the hard disk you use can be supported by the system of NVR, it can work, but you need note, if the NVR begins to work, all data in your harddisk will loss.

5. Whether can playbackwhen recording?Answer: Yes.

6. Whether can remove a part of video recordings of hard disk of NVR? **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 thehard disk.

7. Why can't login to NVR 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 diskis good, whether the time of system is changed, whether the query conditionthat 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 NVR 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.

Ensure NVR away from high temperature heat source and place.

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 pleasedon't hot swap, or these port will be damaged easily.

5. Check the HDD power cable and data cable of the NVR regularly and lookwhether 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 inducedvoltage.