# **Coaxial HD XVR**

# **User manual**

Version 7.1.54.5

## Declaration

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Products in kind prevail, final interpretations are owned by manufacturer.

## **Symbol Conventions**

The symbols that may appear in the document are described as below.

Symbol	Instruction Details
Note	Explanative words, indicates supplementation and interpretation of the text.
Attention	Attentive words, which remind the user of some important operations or preventing potential damage and property loss.
Warning	Alert words, indicates potential risk, which could result in injury, equipment damage, or business interruption if not avoided.

# **Safety Precautions**



- Please do not place and install equipment directly under the sunlight or near heating device.
- Please do not install equipment at moist place or place with dust or soot.
- Please keep equipment installed horizontally, or install equipment in a stable place, avoid the equipment falling down.
- Please avoid liquid dropping on the equipment, make sure no objects filled with liquid on the equipment and prevent liquid from leaking.
- Please install the device in a well-ventilated place, do not block the vents of the equipment.
- Please only use equipment within rated input/output.
- Please do not disassembly at liberty.
- Please transport, use and reserve the equipment within allowing humidity and temperature.



- Please do use the battery as requested, or it may lead to a battery fire, explosion or risk of burning!
- Please use the same type of battery when changing it.
- Please do use recommended cord sets (power cords), do use within the rated specifications.



#### After receiving the product, please open the box, take out the equipment, and confirm the products and accessories according to the packing list which is inside the box.

• If you find any damage of the products or lack of any accessories, please contact the seller directly.

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# **1** Outline and Feature

# 1.1 Outline

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

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

# **1.2 Function Features**

The XVR features are as follows:

• High-definition XVR series, support HDTVI, AHD, CVI, CVBS, IP input (5 in 1 hybrid).

• Support network equipment access and can work with network cameras, network dome and network video server which with ONVIF protocol; Can increase the number of IP channels by disable the Analog channels, come with dual function of DVR and NVR.

- Each channel supports dual-stream encoding.
- The video coding parameters of each channel is adjustable independently, including frame rate, bit rate etc.
- Each channel supports timed recording and motion detection, alarm recording.
- Support composite stream and video stream encoding. Audio and video synchronized when it is composite stream encoding.
- Support HDTVI, AHD, CVI, CVBS switch adaptation.
- Support the option mode of video input and video output.
- IP channel function can be quickly added.

• Support fast search, Multi-channel playback and backup function and can greatly improve the video retrieval and playback efficiency.

• Support H.264/H.264+ video compression format IPC access(1080N series does not support H.264 +), HI3521A series, HI3531A series maximum support 800W resolution, HI3520DV300 maximum support 500W resolution, HI3520DV200 maximum support 1080P resolution network camera intake.

- Support G.711µ audio compression format.
- USB2.0 or USB3.0 interface, support backup, software upgrades, mouse operation

• Support 21 languages: Chinese Simplified / English / Polish / Czech / Russian / Thai / Hebrew / Arabic / Bulgarian / Persian / German / French / Portuguese / Turkish / Spanish / Italian / Hungarian / Romanian / Korean / Dutch / Greek

## Local Monitoring

## Local Monitoring features as below:

•Support local VGA and HDMI output, the maximum resolution is 1080p, Hi3531A series can up to 4K,The 3521A and 3520DV300 series support 2K resolution output.

- Support multi-screen split into different channels and preview & playback.
- 4-channel XVR support 1/4/8/9 screen preview, 8-channel XVR support 1/4/8/9/16 screen preview, 16 channel XVR support 1/4/8/9/16 screen preview, 32-channel XVR support 1/4/8/9/16/25/32 screen preview.
- Support adjust the preview channel order by drag the mouse.
- Support preview manually or auto-tour preview, automatic polling cycle can be set.
- Supports video motion detection and video loss detection.
- Support a variety of video monitor protocol, can access the menu easily when connect to HD-Analog camera; For HD-PTZ Camera, no need to connect RS485, simple and convenient.
- Support preset points, cruise paths and trajectories.
- Achieve IP PTZ camera control through the ONVIF protocol.

## Hard disk management

### Hard disk management features as below:

- Each SATA interface support up to 6T hard drive
- Support hard disk formatting
- Supports hard disk loss and hard disk abnormal alarm.

## Video Record and Playback

## Features as below:

- Video compression standard is H.264/H.264+, with timed recording function.
- Support the main, sub-stream recording at the same time.
- Support cyclic writing.
- Maximum 6 recording time can be set in each day, and the recording trigger mode can be set independently for different time periods.
- Support video data retrieval and playback through channel number, video type, file type, start and end time.
- Support electronic zooming of preview & playback images.
- Support pause, fast, rewind (Local) and slow (Web) release in playback, support mouse drag positioning.
- Support 1-4 channel playback(Pure analog support multi-channel playback) and network multi-channel playback

## Data backup

### Features as below:

- Support backup by USB interface.
- Support backup by backup disk which is in FAT32 format (such as U disk, Mobile Hard disk or network backup).
- Support batch backup by file and time.
- Support for VMS clip-by-clip backups.

## Alarm and exception management

#### Features as below

- Some models support alarm input / output arming time setting.
- Some models support multi-channel external alarm input and output.
- Supports video motion detection alarm, network disconnection alarm, IP Conflict alarm, Disk error alarm and Disk loss alarm

• Various alarms can trigger pop-up alarm screen, voice warning, email sending and trigger alarm output. Besides, video motion detection can trigger any channel for

video inspection; Various exceptions can trigger audible alerts, email sending, and trigger alarm output.

## **Other Local Functions**

#### Features as below:

• Users can quickly and easily set the system parameters by XVR buttons frontal, USB mouse.

• Administrator can create multi-user and set permissions, which can be refined to the channel.

• Support manual alarm trigger.

## Network Function.

### Features as below:

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

# **2** XVR Appearance

# 2.1 The Front Panel

## 2.1.1 The Front Panel

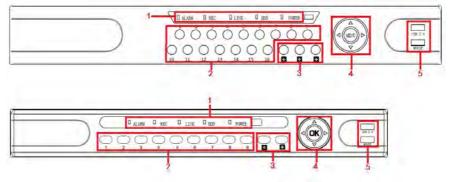
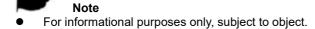


Figure 2-1

No.	Button or indicator light	Function
1	Indicator light	Normal working hours, the corresponding indicator light turns
2	Channel button	Select single channel full screen display
3	Multi-channel preview	Switch and display 4,9,16 channel
4	I Direction button	Move the button up or down, right or left to select menu
5	USB2.0 or USB3.0	Connect mouse or USB memory stick backup

#### Table2-1



# 2.2 Rear Panel

## 2.2.1 Rear Panel

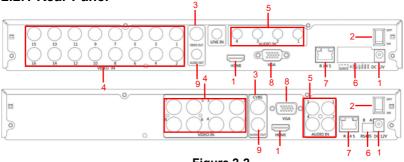


Figure 2-2

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

Table 2-2 Note For informational purposes only, subject to object.

# **2.3 Mouse Instructions**

Mouse instruction

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

Mouse actions	Function
Click left mouse button	1. Select one of the options; 2. Insertion cursor, enter or modify the value of a parameter.
Click right mouse button	1. When interface not locking, click right mouse button, system menu pops up; 2. When interface locking, click right button on real-time preview interface, login interface pop up; 3. Entered to main menu, to a submenu of PTZ control, click right mouse button on the menu interface, return to previous menu (except video playback interface); 4. Entered to close system interface, click mouse right button on the interface, return to preview interface.
Single, double-click the mouse left button	1. When real-time preview multiple channels interface, double-click maximized channel display of one channel and return to the original state; 2. Single click the password input field on the login interface; 3. Single click setting parameters (date, time, IP address, port number, bit stream value and user password) or user names.
mouse movements	Select the menu or menu item.
Mouse drag	Drag progress bar to playback video.
Slide mouse scroll wheel	1.Time setting; 2.Select the drop-down menu values;

Table 2-3

# 2.4 Input Method Introduction

Input method includes lowercase and uppercase English letters. Clicking "

button on the left can switch the input method and the symbol " <sup>1</sup> represents deleting incorrect input, as shown in Figure 2-4 and 2-5:

Ð



Figure 2-3 Uppercase English input



Figure 2-4 Lowercase English input

# **3** Connecting XVR

# 3.1 Hard Disk Installation

Hard Disk Installation:

(1) Loosen the fixing screw on the cover, open the cover, as shown in Figure 3-1:

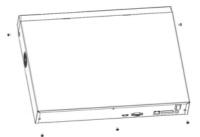


Figure 3-1

(2) Align the four holes of hard disk button with hard disk mounting hole at the button of chassis, as shown in Figure 3-2:

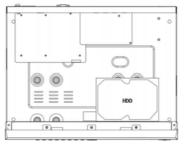


Figure 3-2

(3) Hold the hard disk with hand, turn over the chassis, fix the hard disk with screw at the indicated position, as shown in Figure 3-3:

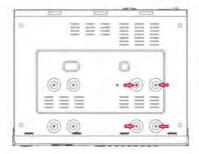


Figure 3-3

(4) After hard disk installed, turn over the chassis, fix the cover with screw, as shown in Figure 3-4:



Figure 3-4



- If user requires high performance of hard disk, we recommend the dedicated security hard disk.
- Before replacing the hard disk, please shut off the power first and then open the case.

## **3.2 Device Connection**

Use VGA cable or 1080P cable to transmit the XVR signal to the display. If it is a controllable PTZ, use wire to connect RS485 A cable and RS485 B cable to the corresponding RS485 interface on XVR, as shown in Figure 3-5:

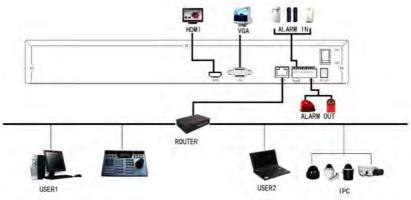


Figure 3-5



## 4.1 System Initialization



- Make sure that the connected voltage matches the requirements of XVR and that the XVR ground terminal is well grounded. Before powering on, make sure that the monitor or monitor is connected to the video output connector on the rear panel of the device.
- If the front panel power indicator does not light, plug in the power and the device starts to start. When the device is turned on, the power indicator is red. A power-on screen will appear on the monitor or monitor screen.
- If the previous shutdown through the menu, but did not turn off the device after the panel power button or access the power cord to complete the boot.

After connecting the device to the display, plug in the mouse, power cable and turn on the power switch on the rear panel, then start up the XVR. The system initialization interface is as shown in Figure 4-1.



Figure 4-1



- With the power switch key device, plug in the power supply also need to open the rear panel power switch.
- The insert figures in this user manual may not be the same as what you see on display. All figures here are just for reference.

## 4.2 Boot wizard

After device successfully booted up, it goes to startup wizard, see Figure 4-2. Click Cancel/Next button, you can see system goes to login interface, see Figure 4-3.

Boot Wizard
Boot wizard settings, including general, network, add camera and record settings.
Next Step Cancel
Next Step Calicel

Figure 4-2

Click Next button, system goes to login interface. Then select a user name, enter the user password, select the system language and click on the login button to login the system (the default username is admin, password is 12345). See Figure 4-3.

User Login	
🏓 admin	*
<b>A</b>	
English	~
Login Close	9.

Figure 4-3

After the login is successful, when the password is too simple, it will prompt the password security strength interface, See Figure 4-4-1; prompt whether to modify or temporarily do not modify, click Modify Now to enter the password modify interface. See Figure 4-4-2.

Ţ	ip
The current password is t the pas	
Modify	Modify later

Figure 4-4-1

	Modity User	
User name		
Modify password		
Old password		
New password		
Confirm		
Level		Ŷ
	Save Cancel	

Figure4-4-2

After logging in, you can go to Common interface; the basic configuration of the device can be set. See Figure 4-5. For detailed information, please refer to chapter 5.3.6.1.

vice setting Date		
anguage	English	
Record mode	Overwrite	
Record days	No limit	
/ideo standard	PAL	
Standby time(min)	10	
Device name	XVR	

Figure 4-5

Click Next button, you can go to Network interface; you can configure the network parameters of the device. See Figure 4-6. For detailed information, please refer to chapter 5.3.6.2.

251 0 2
2
2
7
4
8

Figure 4-6

Click Next button, you can go to Add Camera interface; you can search for and add the IPC devices. See Figure 4-7. For detailed information, please refer to chapter 5.3.5.1.

Binded								Bandwidth idle	
	Edit.		Conf.	Link		Port	Protocol	Firmware version	
	1	8					Private		
	1	6			172.18.195.68	80	Private		
	1						Private		
	1	8			172.18 195.72		Private		
Add		uto add		Dolote	Cancel			Provid	us Stop Next Ste

Figure 4-7

Click Next button, you can go to Rec Setup interface; you can configure the record schedule. See Figure 4-8. For detailed information, please refer to chapter 5.3.4.1.

				Reco	ord Setup					
Channel										
🔳 ALL										Operate
Sun.										s 🖉
Mon.										/ *
🔳 Tue.										<b>*</b> *
Wed.					-		_			
🔳 Thu										s 🔹
🔳 Fri.						-				/ *
Sat.		 -								> *
Record	<ul> <li>Mot</li> </ul>									
Default			Cancel					Previou	s Step	omplate

Figure 4-8

Click the OK button, the boot wizard is complete.

## **4.3 Preview Interface**

After the system is fully booted, it will enter into the default preview interface, shown in Figure 4-9.

			HD VIDEO
CH1	снг	СНЗ	
			HD VIDEO
EH4	ciis	Снб	
CH 7	сна	CH9	

Figure 4-9

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



This icon means monitoring channel is in motion detection. XVR connection IPC channel shortcut menu as shown in Figure 4-9:



Figure 4-9

Screen rotation button, click the button, the screen clockwise 90 ° rotation, click the button again, the screen clockwise 90 ° again.

D

Instant playback button, click the button, the channel playback 5 minutes before the video.



Audio output control button, click to set the channel output volume and

#### mute.



Electronic zoom button, click to open the electronic zoom function, hold down the left mouse button to select a region, release the mouse, preview interface display as the selected zoom area, this time you can drag the mouse to any location preview interface, that is, XVR electronic zoom can be the entire channel interface unified amplification; click the right mouse button to exit the electronic zoom, restore the real-time preview interface.

Image color button, click into the image interface, you can set the channel brightness, contrast, saturation, sharpness of the parameter values.

Bit stream information icon, when the mouse moves to the icon position, the channel shows the current stream and other related parameters.



Image channel shortcut menu Close button, click to close the image channel menu.



#### Note

• The rotation button works only when the IP device is connected.

# 4.4 Quick adding function

At the preview menu, for the channel of unconnected IP Camera, click anywhere in the channel interface, the lower left corner of the channel display "+" icon. Click "+" into the "Device Search" interface, automatically search all devices within the LAN, select the device, click Add to complete. You can also select the appropriate protocol in the Show Filter bar  $\rightarrow$  Search  $\rightarrow$  Select Add Device  $\rightarrow$  Add. As shown in Figure 4-10 and Figure 4-11.



			Figure 4	-10	-
			Device Sea	arch	
				Filter	Onvif and Private
40	IP	- Port	Protocol		Firmware version
	172,18,190.94	8004	Private	35160	C_IMX322_W_6.1.26.1
	172.18.190.117	8817	Private	S2L33M_	IMX322_PTZ_W_6.1.46.3
	172.18.190.118	8818	Private	S2L55	5M_IMX123_W_7.1.3.2
4	172.18.190.155	8855	Private	S2L33M	_IMX323-SD_W_6.1.38.1
	172.18.190.157	8857	Private	S3L33	3M_IMX290_W_7.1.3.2
	172.18.190.163	8863	Private	S2E6	6_IMX178_W_7 1.3.2
	172.18.190.173	8973	Private	3519V	100_IMX274_W_7.1.3.2
8	172.18.190,174	8874	Private	3516CV	200_0V2718_W_7.1.3.3
	172.18.192.5	8899	ONVIF		
10	470 40 400 040	PA	Deinaka	DEACD ONLO	

Figure 4-11

- **Search:** Search the IP address, port, protocol, etc. of the IPC client device.
- Add: Click "search", the XVR can search the IPC devices which support the ONVIF and Private protocol in the same LAN (local area network), the searched IPC devices can be displayed at the list. And select any IPC device in the list, click "Add", the selected IPC information can be automated add to the particular channel, then click "Save" to complete.
- Manual Add: please refer to Manual Add in section 5.3.5.1.
- > Filter: Filter the display of the searched device list.
- > Cancel: Return to the former management interface.



Only IP channels support fast add functionality.

# 5 XVR Menu

## 5.1 Right click mouse

After login the system and back on the preview interface, click the right mouse button and it will pop up the Menu Options, shown in Figure 5-1. Then you can select options of the Main Menu, the Main Screen Switching, Playback, PTZ and XVR Image, etc. In addition, you can set the channel display as follows: single-screen display, four-screen display, eight-screen display, night-screen display, sixteen-screen display. It needs to set a specific number of channels to achieve single-screen display, four-screen display, etc. The corresponding operation of the Main Menu Options will be illustrated in details in later chapters.



- Menu: Click and enter the main menu. ≻
- $\triangleright$ Single-screen Display: CH1, CH2, CH3, CH4, CH5, CH6, CH7, CH8, CH9.
- ≻ Four-screen Display: Divided into three groups to display (CH1~CH4, CH5~CH8、CH6 ~CH9 ).

- Eight-screen Display: Divided into two groups to display (CH1~CH8、CH2 ~CH9).
- Night-screen Display: Display all channels (CH1~CH9).
- Poll: Click into the poll setup interface(Detailed operation as 5.1.1)
- Record: Click into the record setup interface(Detailed operation as 5.3.4.1)
- PTZ: XVR supports PTZ control, allowing users to remotely control the camera.(Detailed operation as 5.1.2)
- > **Playback:** Click into the Playback interface.(Detailed operation as 5.3.1)
- Add Camera: Click and enter the add camera configuration menu.(Detailed operation as 5.3.5.1)
- XVR Image: Click into the image color configuration interface. (Detailed operation as 5.1.3)



#### Note

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

#### 5.1.1 Poll

In the preview channel, right click mouse, select "Poll", the poll configuration interface is displayed, and then turn on patrol, set the polling interval and polling mode. As shown in Figure 5-2:

		Poll		×
Enable				
Time(s)				
Mode				
	Default	Save	Cancel	

Figure 5-2

## 5.1.2 PTZ

In the preview channel, click the right mouse button, select "PTZ", the preview will switch to the corresponding channel single-screen display, and the PTZ interface, shown in Figure 5-3:



#### Figure 5-3

PTZ control interface is divided into PTZ control and Common control, PTZ control interface is used to set the PTZ direction, speed and lens zoom, focus and aperture settings and cruise settings shortcut button; common control for calling preset points, Select the cruise line to turn on / off the cruise.

In the PTZ control interface, you can switch the other channels, can adjust the moving speed of PTZ, PTZ can control the direction of movement.

- **Zoom:** You can click **I** / **I** to adjust camera zoom in/out.
- Focus: You can click i / i to adjust camera focusing.
- Iris: You can click I / I to adjust camera brightness.
- Speed: Speed is to control PTZ movement speed. The value ranges from 1 to 8.The speed 7 is faster than speed 1.
- Confirm: You can click to confirm.
- Patrol Setup: Click "Cruise set" to enter the cruise settings interface, you can set the relevant preset points, cruise line settings, including the dwell time and cruising speed. Shown in Figure 5-4 and Figure 5-5;

Patr	ol Setup							×
Channel								
	Pres	əts						
			Cal		Enter			
	Cruis	9						
	No.	Name	Preset	Speed	Stay Time	Setup	Del	
		Cruise1				1		
		Cruise1				1		
		Cruise 1				1	0	
		Cruise 1				1		
		Cruise1				1		
		Cruise 1				1		
		uise on	Del cru		Del all cruise			
💊 🔺 🕂 Zoon 💻								
🚽 🕨 🕂 Focus 🗕								
Speed 4								

 Cancel

 Contine

 Preset No

 1

 Story Trime

 0

 Speed

 0



- Preset setting: In the Patrol Setup interface, through the direction of the button to turn the PTZ to the desired location, and then click the preset button below the "set" button to complete the preset point settings.
- Cruise setting: In the Patrol Setup interface, select the cruise line and click the Set button to select the preset number, dwell time (seconds) and cruise speed in the "Curise Setup" interface. Click the "OK" button to return to the cruise settings interface and click "Open Cruise" again to save the settings and make the device start cruising.
- > **Del cruise :** Select the cruise line, click to delete the cruise, complete the cruise line to remove.
- **Del all cruise:** After clicking, delete all the set cruise lines.
- Stay Time: Stay time on the Preset.
- > Patrol speed: Speed for Cruise.

The Common control interface is shown in Figure 5-6:

PTZ		X
Channel	~	
PTZ control	Common	n control
Preset	1	~
Ci	all	
Cruise	1	~
Cruis	e on	
Cruis	e off	

#### Figure 5-6

- Presets call: After setting the preset point, select the preset point in the common interface; click the call, PTZ jump to the location.
- Cruise call: After the cruise line is set, select the cruise line in the normal control interface and click on / off the cruise.
- > Cruise on: Follow the cruise line to start cruising.
- > Cruise off: Close the current cruise line.
- > Enabled: Start patrol, and patrol in fixed path.



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

#### 5.1.3 XVR Image

On the preview interface, right click mouse, select the "Image Color", the Image Color interface is displayed, and then can configure the video properties of IPC. As shown in Figure 5-7.



#### Figure 5-7

- **Bright:** It is to adjust monitor window bright.
- **Contrast:** It is to adjust monitor window contrast.
- Saturation: It is to adjust monitor window saturation.
- > **Hue:** It is to adjust the overall color of the XVR image.
- > Default: Recover all the Image Color parameters to default value.
- Save: Save the parameters and return to the previous screen.
- > **Cancel:** Return to the former management interface.

#### 5.1.4 Select Mode

In the preview interface, click the right mouse button, select the mode selection, pop-up options for setting interface, here you can XVR unified signaling system settings, as shown in Figure 5-8.



Figure5-8

# 5.2 Main Menu

Main Menu includes Playback, Export, HDD, Record, Camera, Configuration, Maintenance and Shutdown, as shown in Figure 5-9. Select one and click the left mouse button to open the corresponding next menu options.



Figure 5-9

# 5.3 Operating

## 5.3.1 Playback

After entering the main menu, open the "Playback" menu or right-click to choose select "Playback" menu in the preview interface, switch to video playback interface, shown in Figure 5-10and 5-11.



Figure 5-10

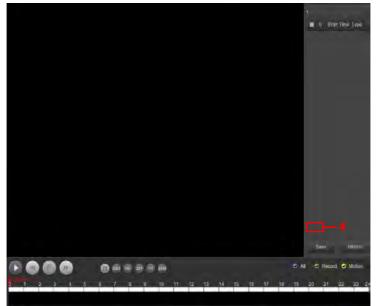


Figure 5-11

No.	Name	Function Specification
1	Calendar	The green highlighted date means there is file. Otherwise, there is no file. In any play mode, click the date you want to see, you can see the corresponding record file trace in the time bar.
2	Channel Selection Pane	Select the channel number to query. (You can select multiple channels at the same time, depending on the device performance.),Support select channel to play audio.
3	File List switch button	Select the date, channel number and record type, click into the video file list. Select the desired video file; double-click the left mouse button to start playing the video file.
4	Save	Select the file(s) you want to backup from the file list. Then click the backup button, now you can see the backup menu. Click the backup button to begin the backup operation. Check the file again you can cancel current selection.
5	Playback Control Area	On the playback control bar, you can normally play/pause, rewind, stop, fast forward, fast forward playback mode 1×, 2×, 4×, 8×, 16×,where 1x is the normal speed playback; Way 2×, 4×, 8×, 16×; click fast forward fast forward switch speed.
6	Timeline	Query to the video file, updated for the day that recording tracks on the timeline. Under the four-frame playback mode, display the selected four channels corresponding to four playback time line, multi-frame playback mode displays multiple playback timeline. Click on the green area to start from that point of time for playback.
7	Select video type	Select the type of video, you can choose the type for all types of video, Record and Motion.
8	Timeline unit selection	Including zoom in and out, the smaller units of time the greater the proportion of time zoom, you can adjust the exact point in time to play back video on the timeline.

In the file list bar, you can see the start time of the video file, video type, select a video file, you can view the video of recording start time, end time and file size, as shown in Figure 5-12:

1 3tart Time Type ☐ 1 02:09.24 R
Start Time 2017-95-05 02:99 24 End Time 2017-35-05 02:09 50 Size 19:018:445 Save Return

Figure 5-12

In the file list box, check the **u** icon to back up the file, click "Save" to enter the video backup interface, as shown in Figure 5-13:

				R	ecord backup			
Remai	ning	5.576	GB	Required:	0.000 MB	File Format	âvi	
		CH	Туре	Start Tir	ne	End Time	Size	
				2017-04-17 0	2:49:00	2017-04-17 02:53 16	96.191 MB	i
				2017-04-17 0	2 53 41	2017-04-17 02:56:47	78 718 MB	
				2017-04-17 0	2 57 03	2017-04-17 02 59 05	50.920 MB	
			R	2017-04-17 0	2:59:31	2017-04-17 02:59:33	1.229 MB	
				2017-04-17 0	2:59:33	2017-04-17 03:09:25	239.857 ME	8
10					Backup L	og		
			Re	fresh	Backup	Clear		

#### Figure 5-13

In the video backup interface, select the file to backup to an external U disk, backup video file for the avi format. At the same time can choose multiple video

files for backup, the user can also in the backup operation menu to cancel the file

list box 🛄 icon, delete the file does not want to back up.

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

# 5.3.2 File backup

Click "Export" icon in the main menu, enter the file backup interface, you can copy the video file operation, as followed Figure 5-14shows:

General	Record	> Record Export							
	File ty	ypa			All				
	Chan	nel							
	File fo	omat							
	Start	time			2000 - 01 - 02 00 :				
	End t	ime			2000 - 01 - 02 01 :	08 : 16			
			Channel	Туре	Start time	End time	Size		
					2000-01-02 00:03 52	2000-01-02 00:03:54	11.985 MB		
					2000-01-02 00:04:45	2000-01-02 00 09 20	104.319 ME		
	10				2000-01-02 00:10:08	2000-01-02 00 17 09	154.510 ME		
	<b>2</b>				2000-01-02 00:17:56	2000-01-02 00:45:51	611.638 ME		
					2000-01-02 00 46 53	2000-01-02 00 52 23	120,863 ME		
					2000-01-02 00:02:58	2000-01-02 00:03 15	14.456 MB		
					2000-01-02 00:04.45	2000-01-02 00 09 20	105.391 ME		
					2000-01-02-00:10:08	2000-01-02 00 17 09	161.460 ME		
	18				2000-01-02 00:17:56	2000-01-02 00:45:52	640.059 M		
					2000-01-02 00 46 58	2000-01-02 00 51 22	101.602 ME		
					2000-01-02 00:51:23	2000-01-02 00:52.24	33.627 MB		
	2	40	¢	n	2000 04 00 00-02-55	1000 04 02 00-03-44	47 440 MP		
	Requ	ired cap	acity: 4.078	GB	Available/Total capacity: 0.000	) MB/0.000 GB			
	Ente	it expor		aarch	Clear Start	Cancel			

# Figure 5-14

Select the backup file type, channel, file format, time range, click on the "Search", the list shows the search to the video file, click "Start", the device began to backup.

- **Required capacity:** Select the total capacity of the backup file.
- Available/Total capacity: The external capacity of the device U disk capacity space.
- Fast export: Set the recording type, channel, file format, and the time range for 30 minutes to automatically cut.

- Search: According to set the video type, channel, file format and time range to the corresponding video file, and displayed in the file list.
- Clear: Clear all files that have been queried in the list of video files.
- Start: Start the backup.
- > Cancel: Return to the former management interface.

# 5.3.3 HDD

Choose" Menu  $\rightarrow$  HDD" in the Menu interface, the HDD interface is displayed, as Figure 5-16 shows.

				HDD		)				
General	>	HDD Information	DD Information							
		No.	State	Total capacity	Residual capacity	Device type				
		1	In use	488.386 GB	419,522 GB	SATA				
		Warning:XVR will	reboot automatically a	ifter disk, formatting !						
		Refresh	Format	Cancel						

### Figure 5-16

If the devices have connected the HDD successfully, the HDD manage list will show the information of HDD. You have to format the HDD if the HDD is the first time to connect; If the system detects that do not need to format the hard disk, the HDD status will displays "In use"; If do not connect successfully or could not detect hard disk, will displays the warning "Not connecting disk!".

- > No.: The number of HDD that connect the system.
- State: Detect the current working status of HDD, you could use only that displays "In use"; after formatting is completed, you need to restart XVR, the status displays "In use".
- Total Capacity: The total available HDD capacity, the single HDD capacity can not exceed the maximum capacity: 6TB.
- **Residual Capacity:** Display the residual capacity of the current HDD;
- > Device Type: SATA.
- Refresh: Refresh HDD information in the list;
- Format: Formatting the HDD, select the HDD that needs to be formatted firstly, and then click the "Format" button, pop-up warning dialog "Formatting will cause loss of all data in the disk. Continue?", If confirm to format then click on the "Confirm" button, otherwise click "Cancel".
- > **Cancel:** Return to the former management interface.



• XVR will reboot automatically after disk formatting!

# 5.3.4 Record

# 5.3.4.1 Schedule

Choose "Menu $\rightarrow$ Record" in the Menu interface, the Record interface is displayed, as Figure 5-16 shows.



- Channel: Please select the channel number first. You can select "all" if you want to set for the whole channels.
- Record Type: Select check the box to select corresponding record type. There are Record and Motion.
- Week day: Set the record schedule, and then the camera automatically starts/stops recording according to the configured Schedule. In the message box, you can choose the day to which you want to set schedule. If you need set schedule every day, choose "all". For the description of the color icon, Green icon stands for normal record, yellow icon stands for recording triggered by motion.
- > 22: Delete the time period for the currently selected recording type.
- > **Default:** Restore parameters of record setup to be default ones.
- Copy: After complete the setup, you can click Copy button to copy current setup to other channel(s).
- > **Apply:** Save parameters of current interface.

> Cancel: Return to the former management interface.

# (1) Drawing schedule record

Choose the channel (As shown in Figure 5-17 1 below) and the record type "record" or "motion" (As shown in Figure 5-17 2 below). Draw the schedule line (As shown in Figure 5-17 3 below) on the panel of the day you choose. Up to 6 periods can be configured for each day. And the time periods can't be overlapped each other.



Figure 5-17

# 2 Input data to set the schedule record

You can click button to set the accurate time of the schedule. Choose the record type you wanted and the start time and the end time, Up to 6 periods can be configured for each day. And the time periods can't be overlapped each other. Then can used to which day you wanted to use. See Figure 5-18.

Schedule 2 📕 R Schedule 3 📕 R Schedule 4 📕 R	Record E Record E Record E	- the sign	00 : 00 : 00 :	00		24 : 00 :		
Schedule 2 📕 R Schedule 3 📕 R Schedule 4 📕 R	Record	Motion	00 :	00				
Schedule 3 🔳 R Schedule 4 🔳 R	Record					00 :	00	
Schedule 4 🔳 R		Motion	00 :					
character of the	Record			00		00 :	00	
		Motion	00 ;	00		00 :	00	
Schedule 5 📰 F	Record	Motion	00 ;	00		00 :	00	
Schedule 6 🔳 R	Record	Motion	00 :	00		00 :	00	
Use to:								
ALL								
🗾 Sun. 🔳 M	Mon.	Tue. 🔳	Wed.		. 7	'nu.	Fri.	Sat.

Figure 5-18

# 5.3.4.2 Parameters

Choose "Menu  $\rightarrow$  Record  $\rightarrow$  Parameters" in the Menu interface, the Encode Parameters interface is displayed, as Figure 5-19 shows. Resolution, Frame Rate, Stream Type, Bit Rate, Sub-stream can be set under "Param" Interface.

		Record			>
Schedule	Encode parameters				
Parameters	Channel				
Parameters	Preview information	NO VIDEO			
	Encode Level				
		Main stream		Sub's	tream
	Encode Mode				
	Encode Type	1064		H264	
	Resolution				
	Stream Control	VBR		VBR	
	I-Frame Interval	0	0		0
	Quality				
	Frame Rate	•		•	
	BitRato(Kb/S)				
	Refer Bitrate(Rb/S)	612-8192		128-2048	
		Apply Can	icel :		

- > Channel: Select the channel you want.
- > **Preview information:** Show video preview information.

- Encode Level: When connected to analog cameras, there are three options for high, medium and low.
- > **H.264 +:** Close / on H.264 +.
- Encode Mode: When connecting an analog camera, select the video stream and audio and video streams.
- Encode Type: System supports H.264, according to XVR performance, some devices support H.265.
- Resolution: Read and set the master and slave stream resolution here, the system supports various resolutions, you can select from the dropdown list. Please note the option may vary depending on the connection to the different series IPC.
- Stream Control: When connecting an analog camera, set the variable code stream of the camera with variable and fixed options.
- > **I-Frame Interval:** Set the key frame interval by dragging the scroll bar.
- Quality: When connecting an analog camera, set the camera quality, there are ordinary, good, better, the best option.
- Frame Rate: Set the camera frame rate to 1 frames / sec-25 frames / sec.
- BitRate (Kb/S): Setting bit rate can change the picture quality, the larger the bit rate and the better the picture quality.
- Refer Bitrate (Kb/S): Shows the bit rate range of the main and sub code streams.
- > **Default:** Restore all the parameters of the interface to the default value.
- **Copy:** Copy the channel parameter settings to other channel.
- > **Apply:** Save the parameters on Encode configuration menu.
- > **Cancel:** Return to the former management interface.

# 5.3.5 Camera

# 5.3.5.1 Add Camera

Choose "Menu  $\rightarrow$  Camera  $\rightarrow$  Add Camera" in the Menu interface, or right-click in live view mode and select "Add Camera" from the Shortcut Menu, the Camera Setup interface is displayed, as shown in Figure 5-20 Here you can add/delete remote IPC device and view its corresponding information.

							Camera	a Management			×
Me Add Camera	>	Add Ca	mera							Bandwidth idle	70/80 Mb
OSD	5		CH	Edit	Del	Cont			Part	Protocol	Ferniware version
				1		۲		172.18.192.15		ONVIE	
🚅 Image				1		9		172,10,193,147		Private	3516CV300_IMX323_AF_1
Motion				1		۲	۰	172 18 193 238	80	Private	35160_0V4689_W_SD_S
Video loss				1		۲		172.18.193.244	80	Private	3516D_OV4689_W_6.1.19
				1			•	172 18 193 249	80	Private	3518EV200_IMX323_WIFI
e PTZ				1		۹		172 18 194 178	80	Private	3516D_OV4689_W_7 1 38
FT2 Setup											
Privacy Mask	3										
🚡 Channel Name											
🚱 Update Camera											
		2.					-				
			Add		Manua	add	A	uto add De	lata	Update	
Preview											

### Figure 5-20

- **Bandwidth idle:** Real-time display XVR remaining bandwidth.
- Add: Click to enter the "Device Search" interface XVR automatically search all the devices in the LAN that conform to the "Onvif and Private" protocol.

Check " before clicking one or more of the searched IPs and click "Add" to add the selected device to the "Added Devices" list. Also in the display filter location according to the desired choice protocol, or multi-network equipment, click the "Search", search the corresponding device within the LAN, select Add.When add network camera, you can choose the channel freely, as shown in Figure 5-21. When the network camera can not connect, click the added device status to see the reason why it can not be connected, as shown in Figure 5-22.



### Figure5-21

							Camer	a Management			×
Add Camera	>	Add Ca	monte							Biendwidth idle	73/80 Mb
asp.	2		ĊН	Enit	Del	Cont	Link		Part	Protocol	Famwana vansion
				1				172.18 192.15			
👬 Imaga				1	-			172.18.193 147		Private	3516CV300_IMX323_AF_
Motion		0	5	2				172 18 193 238	80	Private	3516D_OV4689_W_SD_4
Video Iona			6	1		9		172 18 193 239	80	Private	3516D_IMX123_W_7.1.5:
				1				172 10 193 244		Private	3516D_OV4689_W_6 1 1
PT2				1				172 18 193 249	60	Private	3518EV200_IMX323_WH
PTZ Setup				1	1			Te		Private	3516D_OV4689_W_7 1.3
Privacy Mask				1						Frivate	3518EV200_IMX323_W_
Privacy water				1			-	and the second			
Channel Name				10		Net connection error				ONVIE	
Dipdate Camera				1						Private	3516CV300_IMX307_TF
				1				Continn		Private	3510EV100_F22_W_0 1
				1		۲	•	172 18,190 22	80	Private	3510CV300_IMX290_GU
				1				172 18 196 23	80	Private	3516CV300_IMX290_GU
			Add		Maeua	ladd	•	utó add. De	state	Update	

- Filter: You can quickly search for the required device by "Filter".
- Search: Click it to search IP address. It includes device IP address, port, and protocol. Use your mouse to click the item name, you can refresh display order. Click IP address, system displays IP address from small to large. Click IP address again, you can see icon, system displays IP address from large to small. You can click other items to view information conveniently.
- **Cancel:** Return to the former management interface.

- Auto add: All LANs in the LAN to reconfigure the network, automatically added to the XVR.
- > Delete: In the list of added devices, click the channel "

delete to quickly delete the channel. You can also click the "

select multiple devices or the "**L**" icon in the title bar to select all the devices and click the "Delete" button to delete all selected devices.

Status: Means connection is ok and

means connection failed.

- Conf.: Configuration. Click " icon to enter the "Encode" interface, you can modify the encoding type, resolution, bit rate, frame rate and other coding-related information.
- Manual add: Click the "Manual Add" button into the "Channel Setup" interface, there are two ways to add IP and domain names manually. See Figure 5-23.

Channel Setup							
Enable							
Channel	СНЗ	~					
Protocol	ONVIF	~					
Preview	Sub						
User Name	admin						
Password	*****						
IP	172 • 18 • 194 • 25						
Port	80						
	Save Cancel						

- Enable: The channel enable on/off, defaulting to be off. Tick "Enable" then the related channels can be previewed and recorded normally.
- Channel: Users can type in the channel number that needs to be connected to the remote device according to their needs.
- Protocol: Select Add Device Protocol with Onvif, Private, and RTSP options.
- Preview: The default is sub-stream preview, IPC side to be set to dual-stream, and is H264 encoding format to normal preview (support H265 encoding

format XVR can also be a normal preview stream), sub-stream resolution can be D1 or CIF format.

- User name: The login user name of IPC (if the defaulted user name is not admin, please change it to be valid user name).
- Password: Login password of IPC (if the defaulted login password is not admin, please change it to be valid password).
- > IP: Need to add IPC IP address.
- > **Port:** Access to the port used by IPC, the default is 80.
- Save: Saving the setup parameters of current channels
- > **Cancel:** Return to the former management interface.

# Note

- The channel number of the analog camera is not displayed here.
- If all digital channels have been added remote equipment, then go add, the equipment will be replaced directly.

# 5.3.5.2 OSD

Choose "Menu $\rightarrow$ Camera $\rightarrow$  OSD" in the Menu interface, the OSD setup interface is displayed, as shown in Figure 5-24. Here you can get and set the IPC OSD text, time and other device related information.

			×	
Add Camera	OSD Configuration			
SD OSD	Channel			
image	OSD Text	hkjhichic		
		Time		
Motion	2	Text		
Video loss	*	Date format	Day Month Year	
TZ PTZ	3	OSD position	Bottom_left	
		Mirror	Both	
PTZ Setup	2			
Privacy Mask	8			
Channel Name	2			
( Update Camera		Apply Cancel		
C. C.				
(184-ca				
Praview	2			

### Figure 5-24

Channel: Users can type in the channel number that needs to be connected to the remote device according to their needs.

- > Channel name: Displays the OSD text information obtained to the IPC.
- **Time:** Turn on / off the IPC display interface time information.
- > **Text:** Turn on / off the IPC display interface text message.
- Date format: Set the IPC display interface date format, drop-down menu "Year Month Day", "Month Day Year", "Day Month Year" option.
- OSD position: Set the time and OSD text location, drop-down menu with the" Top\_left, Bottom\_left "options.
- Mirror: Set the IPC mirror to flip the direction, drop-down menu with "Off, Horizontal, Vertical, Both" options.
- Apply: Save the parameters on the current interface configuration parameters.
- > **Cancel:** Return to the former management interface.



# Note

• The current OSD function only supports the acquisition and setting of the added analog device.

# 5.3.5.3 Image

Choose "Menu $\rightarrow$ Camera $\rightarrow$ Image" in the Menu interface, the image setup interface is displayed, as shown in Figure 5-25. Here you can get and set the IPC Brightness, Contrast, Saturation and sharpness.

			Camera Management		×
- Add	Camera 5	mage Settings			
050		Chavial	2		
en Imag	ga >		Brightness	•	
Moto	ion S		Contrast	•	
	io losa 🔹 🕹		Saturation	°	
1.00		14			
🚍 PTZ					
DE PTZ	Setup				
ES Priva	acy Maile				
Ta Oper	rmol Name 🔹	Chalandt	Apply Cancel		
🚱 Upda	iate Cianena 🔷 🗧				
-					
💽 Prev	Now .				

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

- Default: Click to restore IPC brightness, contrast, saturation and sharpness values to factory defaults.
- Apply: Save the parameters on the current interface configuration parameters.
- **Cancel:** Return to the former management interface.

# 5.3.5.4 Motion

Choose "Menu  $\rightarrow$  Camera  $\rightarrow$  Motion" in the Menu interface, the motion setup interface is displayed, as shown in Figure 5-26. Here you can get and set information about IPC motion detection.

		Camera Management	×
Ta Add Camera	Motion Distuction		
osp	Channel		- Set area
🛃 Image	Sensitivity Enable detection	Middle .	
Mation	> Buzzer alarm		
Video loss	Send e-mail	-	
	Record channel	•	
PTZ PTZ	Record time(sec)		
TZ Setup	Week		
Privacy Mask	Time period1	■ 00 ± 00 - 24 ± 00	
	Time period2	■ 00 ± 00 − 00 ± 00	
Channel Name	Default Cop	ey Apply Canoel	
Update Camera			
Previow			

Figure 5-26

- > Channel: Select the channel.
- Set area: Click to enter the regional settings interface, hold down the left mouse button to select the alarm area, select, the alarm area is gray, select the gray again to cancel the alarm area settings.
- Sensitivity: According to the need, can be set 0,1,2,3,4,5,6,7,8,9,10 eleven file sensitivity.
- > Enable detection: Check " " to turn on / off motion detection alarm.
- Buzzer alarm: Check " " to turn on / off the buzzer alarm function.
- Send e-mail: Check " " to turn on / off the sending mail function.
- Record channel: Check " " to turn on / off the channel recording function.
- Record time (sec): Set the duration of each recording when the alarm is triggered.
- week (time period1 / time period2): Motion detection alarm time period.
- > Default: Click to restore all the parameters set by the alarm to the default.

- Copy: After the channel has been set up, click Copy to apply the setting to another channel.
- Apply: Save the parameters on the current interface configuration parameters.
- **Cancel:** Return to the former management interface.

# 5.3.5.5 Video loss

Choose "Menu $\rightarrow$ Camera $\rightarrow$ Video loss" in the Menu interface, the video loss setup interface is displayed, as shown in Figure 5-27. Here, you can set the corresponding channel when the video is lost when the device makes the appropriate alarm.

Video loss		
Channel		1
Enable		
Screen display		
Send e-mail		
Buzzer alarm		
Default	Apply	Cancel



- > Channel: Select the channel.
- > Enable: Check " E to turn on / off video loss alarm.
- Screen display: Check " " to turn on / off the device when the screen is displayed.
- Send e-mail: Check " to turn on / off when the device alerts the mail function.
- Buzzer alarm: Check " " to turn on / off the device when the buzzer sounds.
- > Default: Click to restore all the parameters set by the alarm to the default.
- Apply: Save the parameters on the current interface configuration parameters.
- **Cancel:** Return to the former management interface.

# Note

• The current video loss function only supports the acquisition of the simulated equipment and set up.

# 5.3.5.6 PTZ

Choose "Menu $\rightarrow$ Camera $\rightarrow$  PTZ" in the Menu interface, the PTZ setup interface is displayed, as shown in Figure 5-28. In this interface, you can set the PTZ camera PTZ moving speed, moving direction, set the cruise and so on.

Camera Management										
TAdd Camera	S PTZ									
osd	Channel									
🛃 Image	2	Prese	ats							
Motion	100	Sec. 1	Sel	Call						
Video loss	*	Patro								
PTZ	>	No.	Nama	Praset	Speed	Stay time	Set	Del		
PTZ Setup	5	1	Patrol1				1			
		2	Patrol1				1			
Privacy Mask		3	Patroi1				1			
🔚 Channel Name			Patrol1				1	8		
(2) Update Camera	5 5 4 4 2mm	- 5	Patroit				1	8		
G	< > +		Patrol1				1			
	A	- 0	uise on	Del cruis	, D	el all cruise				
	Speed - 4									
	50000 4									
Preview										

#### Figure 5-28

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

- Zoom: You can click 1 / I to adjust camera zoom in/out.
- Focus: You can click **[1]** / **[]** to adjust camera focusing.
- Iris: You can click 1 / 1 to adjust camera brightness.
- Speed: Speed is to control PTZ movement speed. The value ranges from 0 to 7.The speed 7 is faster than speed 1.
- Preset setting: Through the direction of the button to turn the PTZ to the desired location, and then click the preset button below the "set" button to complete the preset point settings.
- Cruise setting: Select the cruise line and click the Set button to select the preset number, dwell time (seconds) and cruise speed in the "Curise Setup" interface, Shown in Figure 5-29, Click the "OK" button to return to the cruise settings interface and click "Open Cruise" again to save the settings and make the device start cruising.

	Curise Setup	
Preset No.		
Stay Time		
Speed		
	Confirm Cancel	

Figure 5-29

- Del cruise: Select the cruise line, click to delete the cruise, complete the cruise line to remove.
- > Del all cruise: After clicking, delete all the set cruise lines.
- Stay Time: Stay time on the Preset.
- > Patrol speed: Speed for Cruise.



 The XVR supports up to 128 preset points, but the actual number of preset positions is limited by the number of preset points that can be set by the camera. The maximum number of preset points supported by different PTZs is not necessarily the same.

### 5.3.5.7 PTZ Setup

Choose "Menu  $\rightarrow$  Camera  $\rightarrow$  PTZ Setup" in the Menu interface, the PTZ setup interface is displayed, as shown in Figure 5-30. In this interface, you can set the PTZ camera protocol, address, baud rate, data bits, stop bits and parity bits and so on.

		Camera Management	×
Ta Add Camera	PTZ Setup		
CSD OSD	Channel		
	Protocol		
🛃 Image	Address		
Mation	Baud Rate	2400	
Video loss	Data Bit		
	Stop Bit		
PTZ	Check:	NDNE	
PTZ Setup	> Default Copy	Apply Gancel	
Rivacy Mask	8		
Channel Name			
O Update Camera			
Preview			

### Figure 5-30

- > Channel: Select the channel with PTZ camera access.
- > **Protocol:** Select the PTZ protocol for the brand model (eg PelcoD).
- Address: Address: set to the corresponding PTZ address, the default is 0.
- Baud Rate: Select the corresponding PTZ baud rate, the corresponding channel PTZ and camera control, the default is 2400.
- > **Data Bit:** The default value is 8.
- > Stop Bit: The default value is 1.
- > Check: The default value is NONE.
- > Default: Resume all the parameters of the interface to the default.
- Copy: After the channel is set up, click Copy to apply the setting to another channel.
- Apply: Save the parameters on the current interface configuration parameters.
- > Cancel: Return to the former management interface.

# 5.3.5.8 Privacy Mask

Choose "Menu $\rightarrow$ Camera $\rightarrow$  Privacy Mask" in the Menu interface, the Privacy Mask interface is displayed, as shown in Figure 5-31. Here you can set the area of each channel video block.

	Сали	ra Management	×
Ta Add Camera >	Privacy Mask Settings		
CSD >	Channal	2	~
🛃 Image 🛸		Cinar at	
Mation >		Digar Zone 1	
Video loss		Clear Zone 2	
🛫 PTZ		Dieir Zonii 3	
TTZ Satup			
Privacy Mask >			
Channel Name	Apply	Cancel	
O Update Camera			
Preview .			

Figure 5-31

- > Channel: Select the channel.
- Privacy zone selection: In the left side of the interface video window, hold down the left mouse button to select the area to be blocked.
- Clear all: Clear all selected occlusion areas.
- Clear Zone 1,2,3: Clear the selected masked areas 1, 2, 3.
- Apply: Save the parameters on the current interface configuration parameters.
- **Cancel:** Return to the former management interface.

# Note

 The current privacy mask only supports the acquisition and setup of the added analog devices.

# 5.3.5.9 Channel Name

Choose "Menu  $\rightarrow$  Camera  $\rightarrow$  Channel Name" in the Menu interface, the Channel Name interface is displayed, as shown in Figure 5-32. Here you can set all the channel names.

				Comera Management			×
🙀 Add Camera		Channel Name					
oso		Channel1			Channel2	CH2	
and the second s		Channel3			Channel4	CH4	
image Image		Channel5	CH5		Channel6	CH6	
Motion		Channel7			Channel8	СНВ	
Video loss	-	Channel9	CH9		Channel10		
		Channel11			Channel12		
PTZ		Channel13			Channel14		
TZ Setup		Channel15	CH15		Channel16	CH16	
Privacy Mask		Default	Apply	Cancel			
Channel Name	>						
🔮 Update Camera	ž						
Preview	5						

### Figure 5-32

- Channel: Click on the right side of the channel corresponding to CHx, pop-up keyboard, set the channel name.
- > **Default:** Resume all the parameters of the interface to the default.
- Apply: Save the parameters on the current interface configuration parameters.
- Cancel: Return to the former management interface.

### 5.3.5.10 Update Camera

In the main menu interface, select "Main Menu  $\rightarrow$  Channel  $\rightarrow$  Upgrade Front End" to enter the upgrade front-end interface, as shown in Figure 5-33. Here you can add backend upgrade frontend. (Note: only support for some IPC and simulator,Does not support Fu Han IPC and 1080P the following simulator).

					Camara Ma	nagement			×
Add Camera	\$	Updaté Cam	878						
OSD		No	Name				Size	Date	
at Image									
Motion									
Video Loss									
🚽 PTZ									
📻 PTZ Setup									
💽 Privacy Mask									
🔚 Channel Name		select type			PARAM	DRV			
Dpdate Carnera	>				•				
		Refres		U))gravd4e	Cano	al			
Preview									

Figure5-33

# 5.3.6 Configuration

# 5.3.6.1 General

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

### **Device Settings**

Choose "Menu  $\rightarrow$  Configuration  $\rightarrow$  General" in the Menu interface, the Device settings interface is displayed, as Figure 5-34 shows.

					Configuration			×
4	General	>	Device Settings	Date Settings				
	Network	2	Enable wizard at :	startup				
	Display		Language Record mode		English			~
	Exceptions		Record days		Overwrite No imit			*
~			Video standard		PAL			
	User		Standby time(min					
-	Channel config		Device name		XVR			
			Config import	Config export	Default	Apply	Cancel	
	Preview							

Figure 5-34

- Enable setup Wizard at device startup: Click the ", open boot wizards function.
- Language : Set the default language of the system, currently supports Chinese, English, Polish, Czech, Russian, Thai, Hebrew, Persian, Bulgarian, Arabic, German, French, Portuguese, Turkish, Spanish, Italian, Hungarian, Roman, Korean, Dutch and Greek, the default is English.
- Record Mode: When the disk is full, it will automatically overwrite the oldest video; when the disk is not full, but the number of recording days to reach the user settings, automatically cover the earliest video.
- Record days: Set the number of days for XVR automatic recording. There are no restrictions on the menu, 15,10,7,5,1 option
- > Video Standard: According to the local standard selection PAL or NTSC.
- Standby Time (min): The default is 10 minutes, can be set range: 0-120 minutes, where "0" for the permanent standby.
- > **Device name:** Fill in the name of the device according to actual needs.
- Config import: Will be stored in .ini format XVR configuration file U disk into the XVR, click on the data import, OK, XVR automatically start the data import; wait for XVR boot to complete the data import.
- Config export : Insert the U disk to the XVR, click on the data export, suggesting that "data export success!" To determine the configuration file is stored to the U disk. The configuration file format is ".ini".
- Default: Restore all parameter values of the device settings interface to the default values.
- > **Apply:** Save the parameters on the current interface configuration parameters.
- **Cancel:** Return to the former management interface.

### **Date Settings**

Choose "Menu  $\rightarrow$  Configuration  $\rightarrow$  General  $\rightarrow$  Date Settings" in the Menu interface, the Date Settings interface is displayed, as Figure 5-35 shows.

						Configuration					×
2	General	> Device Sel	ttings 0	late Settings							
۲	Network	Date/tim			<b>03</b>	12 : 17 : 48		Separator			
-	Display	> Date for	mat	Year Month Day				Time format	24 hours		
	Exceptions	Receiv	e date/time	from NTP							
2	User	S NTP ser						NTP port			
	Channel config	Time zo						Interval(Min)			
		Dayligh	ht-saving tim								
		Туре		Week				Otfset(Min)	60		
		Start tim	10	Mar.		1st		Sun	3 hour	3 min	
		End time		Nov				Sun	3 hour	3 min	
		Warning	NTP and D	aylight saying time	can	not open at the sar	ne ten	vel			
		Channel ch	neck time	Default		Apply		Cancel			
۲	Preview	1									

Figure 5-35

- Set date/time manually: When checked "□", adjust the date / time, date separator, date format, and time format to set the local time.
- Date/time: Click on the need to modify the location, pop-up keyboard, enter the date and time through the keyboard.
- Date format: Select the date display format, including date, month, year, year and year.
- Separator: Select the separator for the date format.
- Time format: Choose a 24-hour or 12-hour format.
- Receive date/time from NTP: When checked "—", open the update time when NTP function of the school.
- > NTP Server: Domain or IP address of NTP server.
- Time Zone: NTP time-targeted Microsoft time zone format, where the device is located. For example: Beijing GMT +8.
- > **NTP Port:** Set the port of the NTP server.
- Interval (Min): The interval between two time intervals can be set to 0-255 minutes for the NTP update interval.
- Daylight-saving time: Check " , open the daylight saving time function, set the relevant parameters, such as type, date, start time, end time and so on.

- Channel check time: Select the channel, click Save, set the channel time and XVR time consistent.
- > **Default:** Restore the value of the date setting interface to the default value.
- > Apply: Save parameters of current interface.
- **Cancel:** Return to the former interface.

# 5.3.6.2 Network

#### IP/Port

Choose "Menu  $\rightarrow$  Configuration  $\rightarrow$  Network  $\rightarrow$  IP/Port" in the Menu interface, the IP/Port interface is displayed, as Figure 5-36 shows.

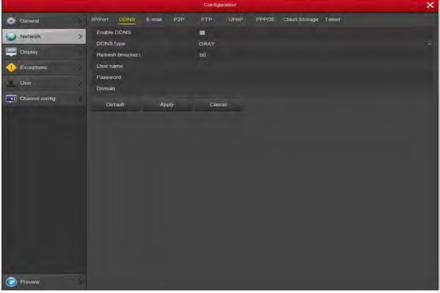
			Configuration				×
🛎 General	IP/Pall DDNS	E-mail P2P	FTP UPnf	PPPOE	Cloud Storage	Teinet	
Notwork	> IP address		172 • 18 • 19	5 • 94			
-	Enable DHCP						
Display	Network mask		255 • 255 • 24	8 • 0			
Exceptions	Gateway		172 • 18 • 19	2 • 2			
0 User	Primary DNS		202 • 96 • 13				
	Secondary DNS		202 • 96 • 12				
Channel config	Broadcast IP		0.0.0				
	Device MAC		11 22:33 44:55.0	5			
	TCP port		5000				
	HTTPport						
	RTSP port		554				
	Retresh	Detinal	Apply	Cancel			
Diview							

- > IP Address: Here you can input IP address of XVR.
- Enable DHCP: Enable / disable DHCP function. "IP address", "subnet mask", and "default 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: It is usually offered by local ISP. Your IP address of domain name server is entered here.
- Secondary DNS: Start secondary DNS when the primary one does not work.
- **Broadcast IP:** Reserved.
- > Device MAC: Displays the physical address of the XVR.

- TCP Port: Default value is 5000, according to the actual needs of users to set the port.
- HTTP Port: Default value is 80, according to the actual needs of users to set the port.
- RTSP Port: Default value is 554, according to the actual needs of users to set the port.
- > Network rate: Displays the network transmission rate.
- **Refresh:** Click the refresh interface.
- > **Default:** Restore all parameters in the network settings to their default values.
- > Apply: Save parameters of current interface.
- > Cancel: Return to the former management interface.

### DDNS

Choose "Menu  $\rightarrow$  Configuration  $\rightarrow$  Network  $\rightarrow$  DDNS" in the Menu interface, the DDNS interface is displayed, as Figure 5-37 shows. You need a PC of fixed IP in the internet and there is the DDNS software running in this PC. In other words, this PC is a DNS (domain name server).



- > Enable DDNS: Enabling DDNS domain resolving function.
- DDNS type: Select the DDNS type by dynamic domain name resolution server. (This device supports multiple DDNS, including ORAY, NO-IP, DYN, CHANGEIP, A-PRESS, MYQSEE, SKDDNS, SMART-EYES, which can coexist at the same time.
- 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. ≻
- Default: Restore all parameters in the DDNS settings to their default values.  $\geq$
- Apply: Save parameters of current interface.
- ⊳ **Cancel:** Return to the former management interface.



When DDNS is successfully configured and enabled, you can type in the registered domain name in the IE address bar directly to link the Web page of the device. Email

Choose "Menu→Configuration→Network→Email" in the Menu interface, the Email interface is displayed, as Figure 5-38 shows. When an alarm occurs, you can send mail to the specified e-mail address.

11-				Configuration	×
🐯 General	s IP	Port DDNS	E-mail P2P	FTP UPnP PPPOE Cloud Storage	Teinet
Notwork-	>	Enable E-mail not	Inations		
-		SMTP server		Custom	
Display		Custom SMTP se	CVIII:	smtp MailServer.com	
() Exceptions		SMTP port		465	
Ó User	. 3	Username		User	
Luser	)	Password			
Channol config		Sender		Lisor	
7.000		Sender's address		User@domain.com	
		Select recipients		Recipient1	
		Recipiont		racesver1@domein.com	
		Subject		XVRALERT	
		Message interval()	Min)		
		Encryption		SSL	
		Attach file		•	
		Time period t		00 : 00 - 24 : 00	
		Time period2		00 : 00 - 00 : 00	
		Enable auto E-ma	•		
		Email interval(min)		10	
		E-mail test	Detaut	Apply Cancel	
Division Provision	>				

- Enable e-mail alarm notifications: Enable / disable mail sending. ≻
- SMTP server: The address of the mail server, which can be an IP address  $\triangleright$ and a domain name (Domain name need to confirm the DNS settings are correct, the domain name to correctly resolve).
- SMTP port: Port number of the mail server.
- User name: User name of the sender's mail

- > **Password:** Mailbox password.
- Sender: Sender user name.
- Sender: Outbox address.
- Sender address:Outbox address.
- Select recipients:Recipient e-mail address, you can choose to set three, send only three e-mail.
- **Recipient:** Inbox address.
- Subject: Send the subject of the message.
- > Message interval (Min): Interval for sending the alarm mail.
- > Encryption: Select the Mailbox server encryption type.
- Attach File: Turn on / off mail attachment function, open, the device sends an alarm message with attachments.
- **Time period (1/2):** Set the time range for sending mail. After setting, send the alarm message at that time; do not send mail at other times.
- > Enable auto E-mail:Enable / disable automatic email sending.
- > Email interval(min):Mail sending interval.
- E-mail test: After completing the mail settings, open the mail test to ensure that the mail settings are correct.
- > Default: Restore all parameters in the email settings to their default values.
- > **Apply:** Save parameters of current interface.
- > **Cancel:** Return to the former management interface.

### P2P

Choose "Menu  $\rightarrow$  Configuration  $\rightarrow$  Network  $\rightarrow$  P2P" in the Menu interface, the P2P interface is displayed, as Figure 5-39 shows. P2P is used for remote monitoring of the mobile phone client, by scanning the two-dimensional code can add XVR to the mobile phone client, convenient monitoring.

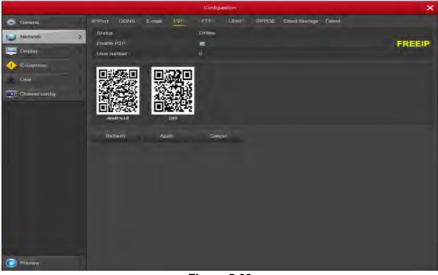


Figure 5-39
 Status: Display device P2P online status.

- ≻ Enable P2P: Turn on / off device P2P function.
- $\geq$ **User number:** Displays the current number of statistics users.
- $\triangleright$ Android: Download Link of P2P client for Android system.
- ≻ iOS: Download Link of P2P client for iOS system.
- ≻ SN: Displays the serial number of the device P2P. This serial number is unique.
- **Refresh:** Refresh the P2P interface related information.  $\geq$
- Apply: Save parameters of current interface. ≻
- **Cancel:** Return to the former management interface.  $\triangleright$

### FTP

Choose "Menu  $\rightarrow$  Configuration  $\rightarrow$  Network  $\rightarrow$  FTP" in the Menu interface, the FTP interface is displayed, as Figure 5-40shows. You need to download or buy FTP service tool (such as Ser-U FTP SERVER) to establish FTP service.

					Configuration	i i		
deneral General	>	IP/Port DDNS	E-mail	P2P	FTP	UPnP	PPPOE	Cloud Storage
Network	>	Enable FTP						
-		FTP server				0 • 0		
Display	3	FTP port		21				
() Exceptions	2	User name						
Hill I HAVE		Password						
User		File upload						
Channel config		Channel						
		Week		Su	n			
		Time period1			00 : 0	00 - 00	: 00	
		Time period2			00 : 0	00 - 00		
		Test	Default		Apply	Ci	ancel	

### Figure 5-40

- Enable FTP: Turn on / off the device FTP function.  $\geq$
- FTP Server: IP address or HTTP network address of FTP server. ≻
- $\triangleright$ FTP Port: The default FTP port is 21, if your FTP server is different; you need to use the same port name with your FTP server.
- User Name: Your FTP server account user name. ≻
- Password: Your FTP server account password. ≻
- ≻ File Upload: You can use XVR FTP upload video file to FTP server.
- . A A Channel: Choose to upload FTP file channel.
- Week: Upload FTP file time.
- ≻ Time period 1& 2: Set the time period for uploading FTP files in one day.
- ⊳ Test: Click on the test, test XVR can successfully upload files to the FTP server
- ≻ **Default:** Restore all parameters in the FTP settings to their default values.
- $\triangleright$ Apply: Save parameters of current interface.
- Cancel: Return to the former management interface.  $\triangleright$

**IIPnP** 

Choose "Menu $\rightarrow$ Configuration $\rightarrow$ Network $\rightarrow$ UPnP" in the Menu interface, the UPnP interface is displayed, as Figure 5-41shows.

	Configuration
🔹 General	IP/Port DDNS E-mail P2P FTP UPhP PPPOE Cloud Storage
Network	Enable State
🕎 Display	htemal IP 0 • 0 • 0
Exceptions	Extemal IP 0 • 0 • 0 • 0
User User	Port mapping table
Channel config	No. Server name Protocol Internal port External port
	Add Delete Detaut Apply Cancel

#### Figure 5-41

- **Enable:** Turn on/off the device UPnP function.
- State: Displays the mapping status of UPnP.
- Internal IP: Status displays the internal network IP of the current XVR connection router when the connection is successful.
- External IP: Status displays the external network IP of the current XVR connection router when the connection is successful.
- Port mapping table: Displays information when XVR UPnP adds a mapping, such as service name, protocol, internal port, and so on.
- Add: Click Add to increase the mapping, enter the service name, internal port, and external port.
- Server Name: Enter the service name and define it yourself.
- Internal Port: You need to enter the corresponding HTTP port, RTSP port, TCP port.
- External Port: Can be self-defined, and the internal port can be the same, but can not and XVR other ports repeat.
- Delete: Select the mapping information in the port mapping table and delete the mapping relationship.
- > **Default:** Restore all parameters in the UPnP settings to their default values.
- > Apply: Save parameters of current interface.
- > **Cancel:** Return to the former management interface.



 Before XVR turns on UPnP, ensure that the router connecting the XVR is the first-level router (or virtual first-level router) and the UPnP function is enabled.  When setting the router mapping port, it is recommended to use the port between 1024 ~ 65535, to avoid the use of well-known ports 1 to 255 and system ports 256 ~ 1023, in order to avoid conflict.

### PPPOE

Choose "Menu  $\rightarrow$  Configuration  $\rightarrow$  Network  $\rightarrow$  PPPOE" in the Menu interface, the PPPOE interface is displayed, as Figure 5-42shows.

	Configuration										
츟 General	IP/Port DDNS	E-mail	P2P			ΓP			UPnP	PPPOE	Cloud Storage
Network >	Enable										
	Server Name										
Display	Password										
+ Exceptions	IP Address					Q					
User 3						ò					
Channel config	Default	Apply			Can	cel					

### Figure 5-42

- > Enable: Turn on/off the device PPPoE function.
- Server Name: ISP (Internet service provider) to provide the PPPoE user name.
- Password: Corresponding user name password.
- IP Address: After PPPoE dials successfully; you can view the current IP address of the device here.
- > **Default:** Restore all parameters in the PPPoE settings to their default values.
- > **Apply:** Save parameters of current interface.
- > **Cancel:** Return to the former management interface.

### **Cloud Storage**

Choose "Menu $\rightarrow$ Configuration $\rightarrow$ Network $\rightarrow$ Cloud Storage" in the Menu interface, the Cloud Storage interface is displayed, as Figure 5-43shows.

	Configuration	
General	IP/Port DDNS E-mail P2P FTP UPnP 8	PPPOE Cloud Storage Teinet
Network	Enable	
-	Drepbox	Bind
Display	Google	Bind
L Exceptions	Upload Folder	
User	Username	
User	Capacity	
Channel config	Used	
	Test Default Apply	Cancel

# Figure 5-43

**Enable:** Turn on/off the device cloud storage function.

- **Dropbox:** Select a cloud storage Type.
- **Google:** Select a cloud storage Type.
- > **Upload Folder:** Set the upload cloud space folder name.
- **Username:** Displays the user name for the corresponding cloud storage type.
- Capacity: After the cloud storage binding is successful, the total capacity of the cloud space is displayed.
- Used: Cloud storage binding is successful, the display of cloud space has been used capacity.
- Test: Bind and click on the test to save whether the cloud storage binding is successful.
- > **Default:** Restore all parameters in the cloud storage settings to their default values.
- > **Apply:** Save parameters of current interface.
- **Cancel:** Return to the former management interface.

# Note

• Select the cloud storage type, fill in the verification code, click on the "Bind" after the success, "user name", "capacity" and "Used capacity" that information will be automatically displayed.

### Telnet

Choose "Menu $\rightarrow$ Configuration $\rightarrow$ Network $\rightarrow$ Telnet" in the Menu interface, the Telnet interface is displayed, as Figure 5-44shows.

		Configuration								
🍎 General	3	IP/Port	DDNS	E-mail	P2P	FTP	UPnP	PPPOE	Cloud Storage	Telnet
Network	>	Enable								
Display	3	Ā	oply	Car	ncel					
Exceptions	2									
User										
Channel config										

### Figure 5-44

- > Enable: Enable / disable the remote Telnet login function, default is off.
- > Apply: Save parameters of current interface.
- > Cancel: Return to the former management interface.

# 5.3.6.3 Display

Choose "Menu $\rightarrow$ Configuration $\rightarrow$ Display" in the Menu interface, the Display Setup interface is displayed, could modify the display resolution and channel names, as Figure 5-45shows.

			Configuration	×
🛱 General	X	Display		
Retwork	3	Resolution	1280x1024	v
		UI transparency	-0	5
Display	>	Show OSD time		
() Exceptions	2	Show channel name	2	
User	x	Show after boot	9 screens	Ý
Channel config	3	Default Apply	Cancel	

Figure 5-45

- Resolution: It means the resolution of video output of XVR. Optional resolution: 1024×768、1280×720、1280×1024、1920×1080. Default resolution is 1280×1024. It will be valid only after XVR is re-started with all specifications saved.
- > **UI Transparency:** The higher the percentage, the more transparent device local menu.
- Show OSD Time: Turns on / off the device time information displayed on the monitor screen.
- Show channel name: Turns on / off the channel name information displayed on the monitor screen.
- Show after boot: Select the number of split screen display screen.
- > **Default:** Restore all parameters in the display settings to their default values.
- > Apply: Save parameters of current interface.
- > Cancel: Return to the former management interface.

# 5.3.6.4 Exceptions

### Disk Exception

Choose "Menu  $\rightarrow$  Configuration  $\rightarrow$  Exception" in the Menu interface, the exception Setup interface is displayed, divided into disk exception and network exception, disk exception as Figure 5-46shows.

				Configuration
🔅 General	3	Disk Exception	Network Exception	1
Network	2	Event type		No disk
	-	Enable		
Display	<u> </u>	Screen display		
. Exceptions	>	Send e-mail		
Q User	2	Buzzer alarm		
		Default	Apply	Cancel
Channel config	2			

### Figure 5-46

- > Event type: Including No Disk and Disk Error in two cases.
- **Enable:** Turns on / off disk exception alarm.
- Screen display: Turns on / off the screen display when the device is alarmed.
- Send e-mail: Turns on / off the sending mail function that occurs when a disk exception, send mail to the specified mailbox.
- Buzzer alarm: Turn on / off the device beep alarm function, that is, the buzzer sounds when a disk error occurs.
- Default: Restore all parameters in the disk exception settings to their default values.
- > Apply: Save parameters of current interface.
- > **Cancel:** Return to the former management interface.

### **Network Exception**

Choose "Menu $\rightarrow$ Configuration $\rightarrow$ Exception $\rightarrow$ Network Exception" in the Menu interface, the network exception setup interface is displayed, as Figure 5-47shows.

				Configuration
General	)	Disk Exception	Network Exception	
Network	3	Event type		Broken network
		Enable		
Display	3	Screen display		
. Exceptions	>	Send e-mail		
User	2	Buzzer alarm		
- open		Default	Apply	Cancel
Channel config	5	Dorudie		Gundar

- > Event type: Including Broken network and IP conflict in two cases.
- **Enable:** Turns on / off network exception alarm.
- Screen display: Turns on / off the screen display when the device is alarmed.

- Send e-mail: Turns on / off the sending mail function that occurs when a network exception, send mail to the specified mailbox.
- Buzzer alarm: Turn on / off the device buzzer alarm function, that is, the buzzer sounds when a network error occurs.
- Default: Restore all parameters in the network exception settings to their default values.
- > Apply: Save parameters of current interface.
- > **Cancel:** Return to the former management interface.

# 5.3.6.5 User

Choose "Menu  $\rightarrow$  Configuration  $\rightarrow$  User" in the Menu interface, the User Setup interface is displayed, as Figure 5-48shows. Here you can add, modify, and delete users.

				Configurat	ion			
🌞 Ganeral	UnorM	lanagement						
Notwork	No	User name		Security	Level	Authority	Modify	Delete
Display	3 1	admin		Weak password	Administrator		8	
	3							
Liser	>							
Channel config								
	A	dd user	Cancel					

Figure 5-48



- The default factory administrator name is admin and the password is 12345. Administrators can add, delete, or edit user parameters.
- User: List added users. "admin" is super user/administrator, and we cannot change its privilege, but only its password.
- > Cancel: Return to the former management interface.

# Add user

Step1: Click the Add User button to enter the user interface.

Step2: Fill in the user information, select the level, save the parameters can be.



 User level has two levels of operator and general; two levels of default permissions are different. ("Remote Config", the operator defaults to Remote Configuration, Remote Network, Remote Display, Remote Exceptions, and general do not).

Step3: Setting authority. Select the user to add a successful click on the

corresponding button below , enter the authority settings interface, and set the user authority.



# **Authority Description**

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

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

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

**"Channel Config":** Local Live View, Local PTZ Control, Local Playback, Local Record, Local Encode, Local OSD Setup, Local Video Setup, Local Motion Detection, Local File Backup, Local Privacy Mask, Local Video Loss, Remote Live View, Remote PTZ Control, Remote Playback, Remote Record, Remote Encode, Remote OSD Setup, Remote Video Setup, Remote Motion Detection, Remote File Backup, Remote Privacy Mask, Remote Video Loss for all channel.

### Modify the user

**Step1:** Select the user to click modify to correspond to the the modify user interface.



button to enter

**Step2:** Edit user information. Support to modify the user name, password, user level, click Save.

### Delete the user

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

corresponding

button, pop-up prompt.

Step2: Click Save to delete the user and return to the user management interface.



- The administrator can be modified by the password but can not be deleted.
- Operators and general users do not have to add, remove user rights.

# 5.3.6.6 Channel config

Choose "Menu $\rightarrow$ Configuration $\rightarrow$ Channel config" in the Menu interface, the Channel config Setup interface is displayed, as Figure 5-49shows. Here you can configure the channel signal access type.

		Configuration	
deneral	Channel config		
Network	СН		IP
	CH1	<b>2</b>	
Display	CH2	<b>A</b>	
() Exceptions	СНЗ		
User	CH4		2
	CH5		1
Channel config	СН6		1
	CH7		
	СН8		
	CH9		
	Default	Apply Cancel	

#### Figure 5-49

**Step1:** Check the channel access type on demand. When the channel is connected to the analog camera, select HD, when the channel is connected to the network camera, select IP;

Step2: Click "Apply", modify the device reboot to complete the configuration.

- Default: the channel settings interface settings to restore all parameters to the default value.
- > **Apply:** save the channel settings interface parameter values.
- > **Cancel:** Return to the former management interface.



 When selecting signal connected mode for single-channel, user need to follow certain rules, the interface will automatically reflect the options in accordance with the rules.

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

# 5.3.7 Maintenance

# 5.3.7.1 System

# Stream Information

Choose "Menu  $\rightarrow$  Maintenance  $\rightarrow$  System  $\rightarrow$  Stream Info" in the Menu interface, the Stream Information interface is displayed, as Figure 5-50shows. Here you can view the real-time code stream (Kb / s-kilobits per second) of the channel image and the resolution information.

				System Maintenance	×
System	>	Stream	Into	Version Info	
Dog	*		Kb/S	Resolution	
Manual Update				0x0	
🚯 Online Update	6				
💥 Auto Maintain			0.0	0x0	
🤗 Restore Default					
			0.0	0x0	
				0x0	
		Recv	rate:	0.00 M/s Send rate; 0.00 M/s	
		Ç	ancel		

# Figure 5-50

> Cancel: Return to the former management interface.

### Version Information

Choose "Menu $\rightarrow$ Maintenance $\rightarrow$ System $\rightarrow$ Version Info" in the Menu interface, the Version Information interface is displayed, as Figure 5-51shows. Here you can view the system version information, including product model, version number and version date.

1			System Mantenance	×
System	> Straum Info	Version Info		
C Log	Device name		Digital Video Record	
	Model No		6-CHANNEL	
Manual Update	Version		XVR_3521A_2826_8_v7.1.53.1	
Online Update	Date		Dec 25 2017 08:57:27	
💥 Auto Maintain	Cancel			
🤗 Restore Default	*			
1.				
Preview				

### Figure 5-51

- > Device name: Display the device full name, fixed to Digital Video Recorder.
- Model NO.: Displays the maximum number of channels supported by the device.
- > Version: Displays the version number of the program.
- > Date: Show the date the program was created.
- > Cancel: Return to the former management interface.

# 5.3.7.2 Log

Choose "Menu $\rightarrow$ Maintenance $\rightarrow$ Log" in the Menu interface, the device log interface is displayed, as Figure 5-52shows. Here you can view some sort of log for some time in the system.

				System Maintenance			
System	2 4						
Log	>	Type Start time End time		All logs 2017 - 08 - 03 2017 - 08 - 03			
<ul> <li>Online Update</li> <li>Auto Maintain</li> </ul>		No. Tim	1		Event		User
Restore Default							
		Warning:You can o Query	nly query 7 days! PgUp	PgDn	Clear	Cancel	

#### Figure 5-52

- > Type: Select the type of information you request.
- Start Time/End Time: Enter the time range for the search log.
- > **Query:** Click the query log.
- > **PgUp/PgDn:** Flip function; click to view other log information.
- **Clear:** Clear all information.
- > Cancel: Return to the former management interface.

## 5.3.7.3 Manual Update

Choose "Menu  $\rightarrow$  Maintenance  $\rightarrow$  Manual upgrade" in the Menu interface, the Manual Update interface is displayed, as Figure 5-53shows.



Figure 5-53

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

> Cancel: Return to the former management interface.

If the device has detected upgrade files in the U disk, the related information of upgrade package (number, name, size, date) will be displayed.

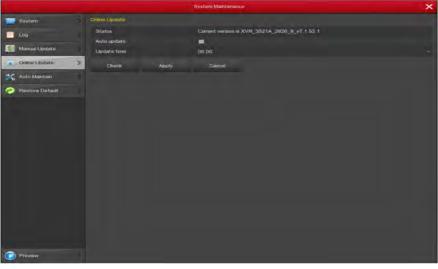
**U** disk Upgrade steps: Copy the upgrade file (named should be the format xxxx\_update\_x\_Vx.x.xx.bin) to the root directory of U disk, connect this U disk to the device's USB port, if did not display the upgrade file in the list, please refresh the interface (If the upgrade package still cannot be searched out , please check whether the USB port connect well with the U disk , and also check whether the upgrade file name is correct). After the upgrade file appears, select the upgrade file, click the "upgrading" and begin to upgrade; If you want to cancel the upgrade, click cancel to return.



 During the upgrading process, please do not cut off the power or take off your U disk. After the upgrading, your system will restart automatically. (This process will take about 1 to 6 minutes.) Here, we advise you to restore factory Settings after the upgrading.

# 5.3.7.4 Online update

Choose "Menu $\rightarrow$  Maintenance $\rightarrow$  Online update" in the Menu interface, the Online Update interface is displayed, as Figure 5-54 shows.



## Figure 5-54

- Status: The current version of device.
- Auto update: Enable / disable automatic update. When the device detects an online new version, it automatically upgrades according to the set upgrade time.

- > **Update time:** Set the automatic update time.
- > Check: Click check latest online version.
- > Apply: Save parameters of current interface.
- > Cancel: Return to the former management interface.

# 5.3.7.5 Auto Maintain

Choose "Menu  $\rightarrow$  Maintenance  $\rightarrow$  Auto Maintain" in the Menu interface, the Auto Maintain interface is displayed, as Figure 5-55 shows.

	8				
System	Auto Maintain				
Eog 🔊	Reboot device auton	natically			
	Every week	v Wed		☆ 3 hour	✓ 3 min
Manual Update	Default	Apply	Cancel		
🗥 Online Update	Default	тери	Caller		
🔬 Auto Maintain 🔉					
Co Restore Default					

#### Figure 5-55

- Default: Restore all parameters in the auto maintain settings to their default values.
- > **Apply:** Save parameters of current interface.
- Cancel: Return to the former management interface.

# Note

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

# 5.3.7.6 Restore Default

Choose "Menu  $\rightarrow$  Maintenance  $\rightarrow$  Restore Default" in the Menu interface, the Restore Default setup interface is displayed, as Figure 5-56 shows.

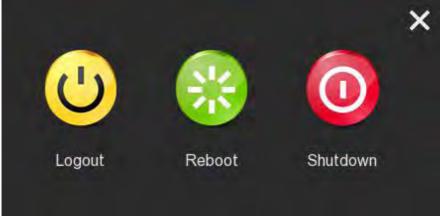
		System Maintenance
System	Restore Default	
Log	Restore record default param	
	Restore camera default param	
🏦 Manuai Update	Restore configuration default para	m 🔳
🚳 Online Update	Restore maintenance default para	m 🔳
💥 Auto Maintain	Restore factory settings	
C Restore Default	Apply Cancel	-

Figure 5-56

- Restore record default param: Select / Cancel Resume Record all interface configuration parameters to the default values.
- Restore channel default param: Select / Cancel Resume Camera all interface configuration parameters to the default values.
- Restore configuration default param: Select / Cancel Resume Configuration all interface configuration parameters to the default values.
- Restore system maintenance default param: Select / Cancel Resume Maintenance all interface configuration parameters to the default values.
- Restore factory settings: Select / Cancel all XVR configuration parameters to the default.
- > **Apply:** Save parameters of current interface.
- > **Cancel:** Return to the former management interface.

# 5.3.8 Shutdown

Choose "Shutdown" in the Menu interface, the Shutdown interface is displayed, as Figure 5-57 shows.



#### Figure 5-57

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

# **6** WEB Operation

# 6.1 Browser Login

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



#### Figure 6-1

In the upper right corner of the interface, select the system language (currently supports Chinese, English, German, French, Portuguese, Turkish, Spanish, Italian, Hungarian, Roman, Korean, Dutch and Greek, the default is English), enter the user name and password, the default user name is admin, password is 12345, click "login" to log on remotely.

# 6.2 Active X install

The first time you log in to the device, you need to download and install the browser plug-in for the first time, as shown in Figure 6-2, click Install and follow the prompts to complete the installation.





#### Note

For WIN 7 could have problems for backup and recording, if so, please check the Admin setting, procedure as follows:

Recent Control Map care presenting hand a report for a using sharper to prove respective Recent State of the state of th	The fact two-fact the fact the	Make Charges to your oner account           Case a parameter to your account           Case a parameter to your account           Drange you active           Drange you active           Orange you active account           Orange you active account           Orange you active account           Orange you active account	admin Amon
Panal Canal	Ser Alm		

#### **WIN7-1**

**WIN7-2** 

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

	Prompt				÷.
	Run ActiveX controls and	plug-ms			
-	Administrator approve	ed			
	🗇 Disable				
1.0	Enable				
	Prompt				
14	Script ActiveX controls ma	rked safe for s	cripting"		
100	🗇 Dseble				
0	Enable				
	Prompt				
E Dox					
and the	Automatic promoting for 1	ie downloads			
	<ul> <li>Disable</li> </ul>				
	Enable				
1	File download				
	De abla				
	ffect after you restart Int	and Euclidean			
eves e	necrante yourestarchie	D GELLADIA C			
etast	am settings				
	Medium (default)		-1 1	Reset.	_

Figure 6-3

# 6.3 Live View

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

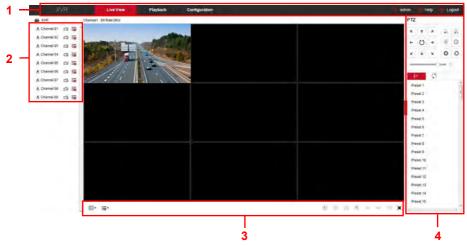


Figure 6-4

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

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

Mark	Specification
CH1-CH9	Display all channels of the device.

A Channel 01	Open or close corresponding preview channel.
Ū.	Click the button, begin recording, the video saves in computer hard disk.
8.08	Main and sub bit stream switching

# 3. Preview channel shortcut button

Mark	Specification
	Preview window toggle. From left to right are: 1 split screen, 4 split screen, 9 split screen.
8	Switch all preview channel master, sub code streams, and turn on preview
▶ , ■	Open / Close all preview channels.
Ó	Capture
1	Turn on / off channel recording of all open videos
Ð	Electronic zoom
	1 split screen preview, switch the channel
<b>(1)</b>	Turn on / off the speaker
	Full-screen playback, press the keyboard Esc to exit the full screen

# 4. PTZ setting operation window

Mark	Specification
К † Я <del>(</del> → к ↓ х	PTZ control direction button
U	PTZ self-test
2. 2.	Zoom button
00	Focus button
0	Aperture control button
5	PTZ rotation speed control
р	Preset settings
⊂.	Call preset point
\$	Set up

×	Delete the settings
\$	Cruise path settings
•	Turn on / off cruise

# 6.4 Configuration

# 6.4.1 Local Config

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

	XVR	Live View Pla	ayback	Configuration	
0	Local Config	Local Config			
	Local Config				
0	Camera	Record File Settings			
	Record	Save record files to	C:\XVR\Recor	d	Browse
	HDD	Save downloaded files to	C:\XVR\Downl	loadFiles	Browse
φ	System	Picture and Clip Settings			
0	Maintain	Save capture files in live view to	C:\XVR\Captu	re	Browse
		Save capture files when playback	to C:\XVR\Playba	ackPics	Browse
		Save clips to	C:\XVR\Playba	ackFiles	Browse
		Save			

Figure 6-5

# 6.4.2 Camera

# 6.4.2.1 Add Camera

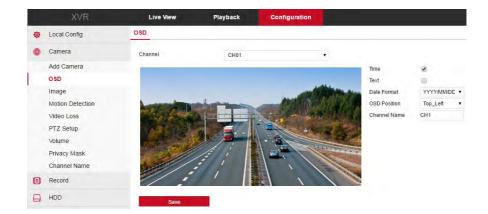
In the main interface, click "Configuration  $\rightarrow$  Camera  $\rightarrow$  Add Camera" to enter the add camera interface, as shown in Figure 6-5 below. Here you can add, edit, and delete devices to the device as needed. The relevant parameters are consistent with the XVR settings.

	XVR		Live View	Pla	yback	Configu	ration		
ø	Local Config	Add	Camera						
0	Camera		Add	h	lanual Add		Del		
	Add Camera		Channel	Edit	Del	Conf.	IP	Port	Protocol
	OSD		3	Edit	Del	Conf.	172.18.193.147	80	ONVIE
	Image		4	Edit	Del	Conf.	172.18.193.102	8851	Private
	Motion Detection Video Loss PTZ Setup Volume Privacy Mask Channel Name		5	Edit	Del	Conf.	172.18.193.141	80	Private
۵	Record								
	HDD								
	System								
2	Maintain								

Figure 6-6

# 6.4.2.2 OSD

In the main interface, click " Configuration  $\rightarrow$  Camera  $\rightarrow$  OSD" to enter the OSD setting interface, as shown in Figure 6-7 below. Here you can view and set the device text, date and other related information, the relevant parameters and XVR-side settings consistent.



## Figure 6-7

# 6.4.2.3 Image

In the main interface, click " Configuration  $\rightarrow$  Camera  $\rightarrow$  Image" to enter the Image setting interface, as shown in Figure 6-8 below. Here you can view and set the

channel brightness, contrast, saturation and sharpness, the relevant parameters and XVR side of the same set.



Figure 6-8

# 6.4.2.4 Motion Detection

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

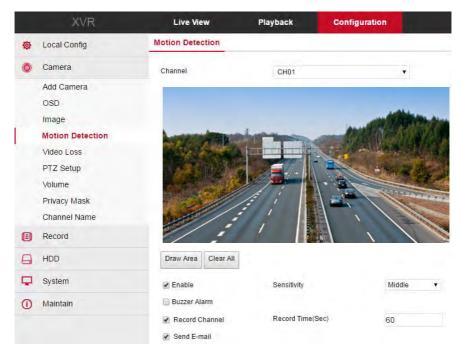


Figure 6-9

# 6.4.2.5 Video Loss

In the main interface, click " Configuration  $\rightarrow$  Camera  $\rightarrow$  Video Loss" to enter the video loss setting interface, as shown in Figure 6-10 below. Here you can set the channel when the channel video is lost when the device to make the appropriate alarm mode, the relevant parameters and XVR side of the same set.

	XVR	Live View	Playback	Configuration	admini 🚺	E Helpi	E Logout
	Local Config	Video Loss					
•	Gamera	Channel	CH01 V				
	Add Camera OSD Image Motion Detection Video Loss PTZ Setup Volume	Li Sebect All Enable Screen Display Sand E-mail U diuzzer Aurm					
	Privacy Mask Channel Name Record HDD System						
•	Maantaain	Sawar					

Figure 6-10



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

# 6.4.2.6 PTZ Setup

In the main interface, click " Configuration  $\rightarrow$  Camera  $\rightarrow$  PTZ Setup" to enter the video PTZ Setup interface, as shown in Figure 6-11 below. Here you can view and set the information about the PTZ control for each channel, the relevant parameters and XVR side of the same set.

		Live View	Playback	Configuration	pintes p	Help	Fognal
0	Local Config	PTZ					
ė	Camera	Channel	CH01	(¥)			
	Add Camera	Protocol	PelcoD	<b>*</b>			
	OS0	Address	0				
	Image	Baud Rate	2400	<b>V</b>			
	Motion Detection	Data Bit	8	[ <b>v</b> ]			
	Video Loss	Stop Bit	1				
	PTZ Setup	Check	NONE	× ×			
	Volume						
	Privacy Mask	Salar					
	Channel Name						
•	Record						
9	HDD						
•	System						
D	Maintain						

Figure 6-11

# 6.4.2.7 Volume

In the main interface, click " Configuration  $\rightarrow$  Camera  $\rightarrow$  Volume" to enter the volume setting interface, as shown in Figure 6-12 below. Here you can view and set the volume of the analog channel output gain and whether the mute and other related information, the relevant parameters and XVR side of the same set.

	W/R	Live View	Playback	Configuration	🛃 admin 📕 Help 📑 Logout
٠	Local Config	Volume			
ó	Camera	Channel	CH01		
	Add Camera OSD	₩ Mute			
	Image Motion Detection	Output Gain		42	
	Video Loss	_			
	PTZ Setup Volume	Save			
	Privacy Mask Channel Name				
0	Record				
0	HDD				
Q.	System				
0	Maintain				

Figure 6-12

# 6.4.2.8 Privacy Mask

In the main interface, click " Configuration  $\rightarrow$  Camera  $\rightarrow$  Privacy Mask " to enter the privacy mask setting interface, as shown in Figure 6-13 below. Here you can view and set the privacy of the channel area settings and other related information, the relevant parameters and XVR side of the same set.

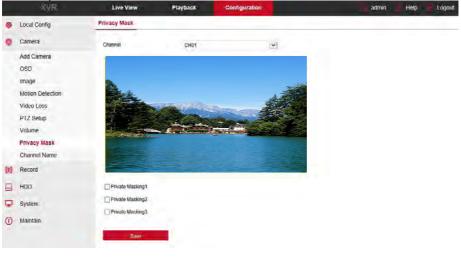


Figure 6-13



#### Note

The current privacy mask only supports setting up the added analog device.

## 6.4.2.9 Channel Name

In the main interface, click " Configuration  $\rightarrow$  Camera  $\rightarrow$  Channel Name" to enter the channel name setting interface, as shown in Figure 6-14 below. Here you can view and set the channel names, the relevant parameters and XVR side of the same set.

	VR	Live View	Playback	Configuration		1 admin	Help	Logout
	Local Config	Channel Config						
٠	Camera							
	Add Camera	CHI	CHT					
	OSD	CHZ	CH2		ii ii			
	Image	- 643	CH3	1				
	Motion Detection	CH4	CH4					
	Video Loss	CHS	CHS					
	PTZ Setup	CH6	CH6					
	Volume	CHI7	CH7					
	Privacy Mask	CH8	CH8					
	Ghannel Name	CHU	CHB					
8	Record	CHIO	CHID	1				
8	HDD	CRITI	CHIT					
	System	CH12	CH12					
~	System	CH13	CH13		~			
0	Maintain	Part.	Descen		<u> </u>			
		Ome						
		- Carlo						

Figure 6-14

# 6.4.3 Record

## 6.4.3.1 Record

In the main interface, click " Configuration  $\rightarrow$  Record " to enter the record setting interface, as shown in Figure 6-15 below. Here you can set the channel to record according to the schedule, the relevant parameters and XVR side of the same set.





# 6.4.3.2 Encode

In the main interface, click " Configuration → Record → Encode" to enter the encode setting interface, as shown in Figure 6-16 below. Here you can view and set the

channel access device encoding parameter values, , the relevant parameters and XVR side of the same set.

XVR	Live View	Playback	Configuration	
ocal Config	Encode			
Camera	Channel	CH01		•
Record	Encode Level	High Profile		•
Record	Encode Level	Main Stream	n	•
Encode	Main Stream			
DD	Encode Mode	AV		•
System	Encode Type	H264		•
Maintain	Resolution	1080N		•
	Stream Control	VBR		•
	I-Frame Interval	0		2
	Quality	Well		•
	Frame Rate			2
	Bitrate(Kb/s)	2048		
	cocal Config Camera Record Record Incode IDD System	Encode       Camera     Channel       Record     Encode Level       Record     Encode Level       Incode     Main Stream       IDD     Encode Mode       Resolution     Stream Control       IFrame Interval     Quality       Frame Rate     Stream Rate	Encode         Camera       Channel       CH01         Record       Encode Level       High Profile         Record       Encode Level       Main Stream         IDD       Encode Mode       AV         System       Encode Type       H264         Resolution       1080N         Stream Control       VBR         I-Frame Interval       Image: Control         Quality       Weil         Frame Rate       Image: Control	Encode       Channel     CH01       Record     Encode Level     High Profile       Record     Encode Level     Main Stream       MDD     Encode Mode     AV       System     Encode Type     H264       Resolution     1080N       Stream Control     VBR       I-Frame Interval     I       Quality     Well

Figure 6-16

# 6.4.4 HDD

In the main interface, click " Configuration  $\rightarrow$  HDD " to enter the disk management interface, as shown in Figure 6-17 below. Here you can view the connection device disk information, but also format the hard disk, hard disk format and XVR settings consistent.

XVR	Live Vi		yback Configur			
Local Config	HDD					
O Camera	NO.	State	Total Capacity	Residual Capacity	Device Type	
Record		Using.	488 38608	356.521GB	SATA	
HDD						
HDD						
System						
Maintain						
	Fo	rmat: Warnin	g The device will reboot automa	tically after disk formatting!		

Figure 6-17

# 6.4.5 System

# 6.4.5.1 General

#### Device Setting

In the main interface, click " Configuration  $\rightarrow$  System  $\rightarrow$  General  $\rightarrow$  Device Setting" to enter the device setting interface, as shown in Figure 6-18 below. Here you can view and set the device language, record mode, record days, resolution and other information.

	XVR	Live View	PI	ayback	Configuration
0	Local Config	Device Setting	Date	Ds	t
0	Camera	Language		English	
	Record	Record Mode		Overwrite	
	HDD	Record Days		No Limit	•
_		Video Standard		PAL	
<b>Q</b>	System	Resolution		1280×1024	
	General	Standby Time(Min)		0	
	Network	Device Name		XVR	
		Figure 6	-18		

#### Date

In the main interface, click "Configuration  $\rightarrow$  System  $\rightarrow$  General  $\rightarrow$  Date" to enter the date setting interface, as shown in Figure 6-19 below. Here you can set the device time and select the channel to synchronize the IPC time with the XVR time.

	XVR	Live View	Pla	yback	Confi	gurati	on			
ø	Local Config	Device Setting	Date	Dst						
0	Camera	🕑 Set date/time manually	6							
•	Record	Date/Time		2017-08-04	09	٠	55	٠	59	•
	HDD	Synchronize with the c		2017-08-04 15	:24:53					
Q	System	Receive date/time form	NTP	time.nist.gov						
	General	Time Zone		GMT+08 Taipei	, Beijing, C	Chongq	ing, Urum	qi, Ho	ng Kong,	Per 🔻
	Network	NTP Port		123						
	Exception	NTP Interval(Min)		10						
	User	Date Format		Year Month Day	1					
	Channel Config	Date Separator		4						۲
0	Maintain	Time Format		24Hour						۲
		🖾 Select All								
		i сн₀1 i сн₀2 i сн Figu			406 🕑 CH	107 🕑	СН08 🕑	СН09		

#### Dst

In the main interface, click " Configuration  $\rightarrow$  System  $\rightarrow$  General  $\rightarrow$  Dst" to enter the Dst setting interface, as shown in Figure 6-20 below. Here you can set the daylight

saving time and daylight saving time of the device to be consistent with the XVR settings.

	XVR	Live View	Pl	ayback		Co	nfigur	ation				
ø	Local Config	Device Setting	Date	-	D	st	_					
0	Camera	📋 Daylight-saving ti	ime									
۵	Record	Туре		Week	Ŧ							
	HDD	Start Time		Mar.	Ť	1st	۲	Sun.	03	Ŧ	03	
		End Time		Nov.	٠	1st	•	Sun.	03	٠	03	
ç	System	Offset(Min)		60	•							
	General											
	Network	Save										

Figure 6-20

# 6.4.5.2 Network

#### ■ IP/Port

In the main interface, click "Configure  $\rightarrow$  System  $\rightarrow$  Network  $\rightarrow$  IP/Port" to enter the IP/Port setting interface, as shown in Figure 6-21 below. Here you can set the IP address of the device, subnet mask, gateway, port, DNS and other network information, IP / Port and XVR settings consistent.

XVR	Live View	Playback	Confi	guration
🚳 Local Config	IP/Port	DDNS	Email	P2P
O Camera	NIC Settings			
Record		🗐 Enable	DHCP	
	IP Address	172.18.19	3.250	
System	Network Mask	255.255.2		
General	Gateway TCP Port	172.18.19	2.2	
Network Exception	RTSP Port	554		
User	HTTP Port Device MAC	80	13:33:18	
Channel Config Maintain	Broadcast IP	0.0.0.0		
	DNS			
	Primary DNS	172.18.19	2.2	
	Secondary DNS	8.8.8.8		

# DDNS

In the main interface, click "Configure  $\rightarrow$  System  $\rightarrow$  Network  $\rightarrow$  DDNS" to enter the DDNS setting interface, as shown in Figure 6-22 below. Here you can open and set the DDNS function, DDNS and XVR settings consistent.

	XVR.	Live View	Pla	yback	Configu	ration
ø	Local Config	IP/Port	DDNS	Em	ail	P2P
Ø	Camera	DDNS				
۵	Record	Enable DDNS				
	HDD	DDNS Type		ORAY		
φ	System	Refresh Time(Sec)		60		
	General	User Name Password				
	Network	Domain				
	Exception					
		Figure 6	-22			

#### Email

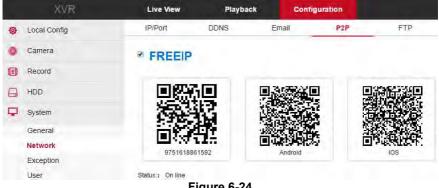
In the main interface, click "Configure  $\rightarrow$  System  $\rightarrow$  Network  $\rightarrow$  Email" to enter the email setting interface, as shown in Figure 6-23 below. Here you can open and set the mail function, mail settings and XVR settings consistent.

	XVB	Live View	Playback	Config	uration		ii ad	min Help	Logoul
<b>@</b>	Local Config	IP/Port	DDNS	Email	P2P	FTP	UPnP	PPPOE	Cloud Stora
٠	Camera	🖂 Enable e-mail alam	m notifications						
	Record	Sender	User@	domain com					
	HDD	SMTP Server		lailServer com					
-	System	Port	465						
	General	Subject	XVRA	LERT					
	Network	Message Interval(Min)	1						
	Exception	Encryption	SSL		¥				
	User	User Neme	User						
	Channel Config	Password							
0	Maintain	Confirm							
		Recipient1	receive	rt@domain.com		Test			
		Time Period1	0	: 0 -24	: 0				
		Time Period2	0	0 -0	: 0				
		Save							

Figure 6-23

#### P2P

In the main interface, click "Configure  $\rightarrow$  System  $\rightarrow$  Network  $\rightarrow$  P2P" to enter the P2P setting interface, as shown in Figure 6-24 below. Here you can turn on / off P2P function, P2P and XVR side set the same.



#### **FTP**

Figure 6-24

In the main interface, click "Configure  $\rightarrow$  System  $\rightarrow$  Network  $\rightarrow$  FTP" to enter the FTP setting interface, as shown in Figure 6-25 below. Here you can open and set the FTP server function, FTP and XVR settings consistent.

	XVR	Live View	Playback	Confi	guration	
ø	Local Config	IP/Port	DDNS	Email	P2P	FTP
0	Camera	FTP				
Ð	Record	🖾 Enable FTP				
	HDD	FTP Server	0.0.0.0			Test
	System	Port	21			
	General	User Name				
	Network	Password				
	Exception User	Confirm File Upload Channel				
	Channel Config		CH01		•	
0	Maintain	Week	Fri.			
		Time Period1		:		
		Time Period2		: ~	•	

#### UPnP

Figure 6-25

In the main interface, click "Configure  $\rightarrow$  System  $\rightarrow$  Network  $\rightarrow$  UPnP" to enter the UPnP setting interface, as shown in Figure 6-26 below. Here you can turn on and set UPnP function, UPnP and XVR settings consistent.

	XVR		Live View	Playba	ick (	Configuration		
ø	Local Config	1	P/Port	DDNS	Email	P2P	FTP	UPnP
0	Camera	() E	nable					
۵	Record	State						
	HDD		nal IP					
Ģ	System		rnal IP Mapping Table					
	General		Index	Server N	lame	Protocol	Internal Port	External Port
	Network Exception User Channel Config							
0	Maintain							
			Add		Del			

#### PPPOE

Figure 6-26

In the main interface, click "Configure  $\rightarrow$  System  $\rightarrow$  Network  $\rightarrow$  PPPOE" to enter the PPPOE setting interface, as shown in Figure 6-27 below. Here you can open and set the PPPOE function, PPPOE and XVR settings consistent.

XVR	Live View	Playba	ck Confi	guration
🔯 Local Config	IP/Port	DDNS	Email	P2P
Camera	PPPOE			
Record	📄 Enable			
HDD	User Name Password			
System	IP			
General	Network Mask			

## Cloud Storage



In the main interface, click "Configure  $\rightarrow$  System  $\rightarrow$  Network  $\rightarrow$  Cloud Storage" to enter the Cloud Storage setting interface, as shown in Figure 6-28 below. Here you can turn on and set Cloud Storage function, Cloud Storage and XVR settings consistent.

	XVR	Live View	Playback	Cont	iguration				
ø	Local Config	IP/Port	DDNS	Email	P2P	FTP	UPhP	PPPOE	Cloud Storage
0	Camera	Cloud Storage							
۵	Record	iii) Enable							
	HDD	U Dropbox		Bind					
Q	System	( ) Google		Bind					
	General Network	Cloud Web Verification Code							
	Exception	Test							
	User	Upload Folder	even	_picture					
	Channel Config	User Name		Capacity		Used			
0	Maintain			0.00 MD		0.66 ME			

Figure 6-28

# 6.4.5.3 Exception

In the main interface, click "Configure  $\rightarrow$  System  $\rightarrow$  Exception" to enter the exception setting interface, as shown in Figure 6-29 below. Here you can set the abnormal alarm, abnormal alarm and XVR settings consistent.

	XVR	Live View	Playback
0	Local Config	Exception	
0	Camera	Event Type	No Dísk 🔻
۲	Record	Select All	
0	HDD	Send E-mail	
P	System	📋 Buzzer Alarm	
	General	Screen Display	
	Network		
	Exception		
		El	

Figure 6-29

## 6.4.5.4 User

In the main interface, click "Configure  $\rightarrow$  System  $\rightarrow$  User" to enter the user management interface, as shown in Figure 6-30 below. Here you can add, delete, edit the user, the user settings and XVR settings consistent.

0	Local Config	User						
	Camera	Index	User Name	Security	Level	Authority	Modity	Dei
	Record	1	admin	Weak Password	Administrator	+	Modify	
-	HDD							
ç	System							
	General							
	Network.							
	Exception							
	User							
	Channel Config							
0	Maintain							

Figure 6-30

# 6.4.5.4 Channel Config

In the main interface, click "Configure  $\rightarrow$  System  $\rightarrow$  Channel Config" to enter the channel configuration interface, as shown in Figure 6-31 below. Here you can select the device access signal, the channel configuration and XVR settings consistent.

		Live View	Playback	Contiguration		admin 📕	Help	E Lógaut
•	Local Config	Channel Config						
0	Camera	DH	нр	IP				
0	Record	CHI	1		~			
	HOD	CH2	2					
	HOD	СНЭ	1					
φ	System	CH4	M	0				
	General	045						
	Network	CH6	C3.	2				
	Exception	CH7		2				
	User	CHE		2				
	Channel Config	CHIP		X X X				
0	Maintain	CH10						
		CHI1		2 2 2				
		CH12		2				
		CHI		8	4			
		interes.		2				
		Saw						
		2002						

Figure 6-31

# 6.4.6 Maintain

## 6.4.6.1 Version Info

In the main interface, click "Configure  $\rightarrow$  Maintain  $\rightarrow$  Version Info" to enter the version information interface, as shown in Figure 6-32 below. Here you can see information about the device version.

	XVR	Live View	Playback	Configuration	admin	Help	Logout
ø	Local Config	Version Info					
•	Camera	Device Name :	Digital Vide	eð Recorden			
	Record	Model No.:	8-CHANNE	i.			
	HDD	Version:	XVR 3531	A 2026 B V7 1 51 1			
		Date:	Dec 10 20	17 18-21,30			
-	System	WEB Version:	7.1.34.170	813			
0	Maintain	Plugin Version:	7 1 53 3				
	Varsion Into						
	Log						
	Manual Upgrade						
	Auto Maintain						
	Restore Default						

Figure 6-32

# 6.4.6.2 Log

In the main interface, click "Configure  $\rightarrow$  Maintain  $\rightarrow$  Log" to enter the log interface, as shown in Figure 6-33 below. Here you can search the device log; log search is consistent with XVR search.

	XVR	Live	View	Playback	Configuration			
ø	Local Config	Log						
0	Camera	Туре	Туре		All Logs			
۲	Record	Start Tim	Start Time		2017-08-04 00:00:00			
	HDD End Time			2017-08-04 23:59:59				
φ	System		2017-08-04 23:59:59					
0	Maintain		Query	Clear				
U.		No.	Time		Event		User Name	
	Version Info	1	2017/08/04-09:09:	45	Log off		admin	
	Log	2	2017/08/04-05:51	12	Log off		admin	
	Manual Upgrade	3	2017/08/04-05:50	32	Save Network Con	figuration	admin	
	Auto Maintain	4	2017/08/04-05:50	32	Set network		admin	
	Restore Default	5	2017/08/04-05:50	32	Save Network Configuration		admin	
		6	2017/08/04-05:50	32	Set network		admin	
		7	2017/08/04-05:22:	01	Login		admin	
		8	2017/08/04-05:09:	10	Save the encoding c	onfiguration		
		9	2017/08/04-05:08	51	Boot		system	
		10	2017/08/04-05:07	57	Restart		admin	
		11	2017/08/04-05:07	53	Save Network Con	figuration	admin	
		12	2017/08/04-05:07	53	Set netwo	rk	admin	
		13	2017/08/04-04:38	08	Save Network Con	figuration	admin	
		14	2017/08/04-04:38:	08	Set netwo	rk	admin	

Figure 6-33

# 6.4.6.3 Manual Upgrade

In the main interface, click "Configure  $\rightarrow$  Maintain  $\rightarrow$  Manual Upgrade" to enter the manual upgrade interface, as shown in Figure 6-34 below. Here you can reboot the device and upgrade the device.

	XVR	Live View	Playback	Configuration
	Local Config	Manual Upgrade		
0	Camera	Reboot System		
٠	Record	Reboot		
	HOD	Upgrade		
Ψ	System	Firmware		Browse Upprade
0	Maintain	Connection status		
	Version info	Note	The upgrade	te process will take about 1-5 minutes, please do not turn off the power. The device reboots automatically after upgrading
	Log			
	Manual Upgrade			

#### Figure 6-34

To manually upgrade the device, the step as follows:

Step 1: In the manual upgrade interface, click the "Browse" button to select the upgrade file stored in the local host;

Step 2: Click "upgrade";

Step 3: Waiting for the progress of the progress bar, the interface can resume normal operation, upgrade is complete.

## 6.4.6.4 Auto Maintain

In the main interface, click "Configure  $\rightarrow$  Maintain  $\rightarrow$  Auto Maintain" to enter the auto maintain interface, as shown in Figure 6-35 below. Here you can set the device reboot time, the auto maintenance settings and XVR settings consistent.

	XV8	Live View	Playback	Configuration		👔 admin	Help	Logoul
0	Local Config	Auto Maintain						
0	Camera	Every Week 💌 Wed	·▼F 03	V Hour 03	😒 Min			
۵	Record							
	HDD	Sant						
ø	System							
0	Maintain							
	Version info							
	Log							
	Manual Upgrade							
	Auto Maintain							
	Restore Default							

#### Figure 6-35

# 6.4.6.5 Restore Default

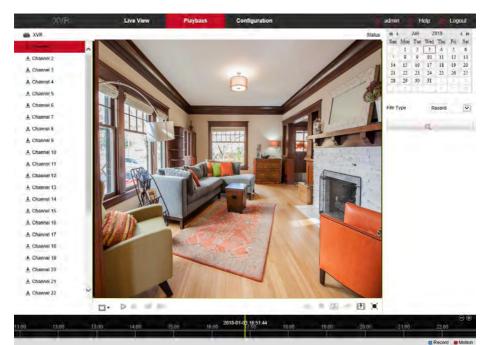
In the main interface, click "Configure  $\rightarrow$  Maintain  $\rightarrow$  Restore Default" to enter the restore default interface, as shown in Figure 6-36 below. Here you can restore the default value to the device, and the default settings and XVR settings consistent.

	XVR	Live View	Playback	Configuration
0	Local Config	Restore Default		
0	Camera	Restore Default		
۵	Record	Record	R	ecord
	HDD	Camera	Ca	amera
<b>Q</b>	System	System	S	ystern
0	Maintain	Maintain	Ma	lintain
	Version Info	Restore Factory Setting		
	Log	Restore Factory Setting		
	Manual Upgrade			
	Auto Maintain	Save		
	Restore Default			

Figure 6-36

# 6.5 Playback

In the main interface, click "Playback" to enter the playback interface, as shown in Figure 6-37 below. Here you can view the equipment, video capture, download and other actions, video query and XVR side of the same set.





- ➤ Play/Pause: After querying the video file, click " ▷ / " to start / pause playback of the searched video.
- Stop: When the video is played, press " 🛄 " to stop playing the video.
- Slow forward: When the video is played, click " video will play slowly, the specific speed of choice 1/2, 1/4, 1/8.
- **Fast forward:** When the video is played, click " " video will be slow to play, the specific speed of choice 2, 4, 8.
- Audio: When the video is played, click " Audio area of the sound of the recorded video.
- Electronic zoom: When the video is played, click " (), (), " to turn on / off the electronic zoom function of the recorded video. Turn on the electronic zoom function, hold down the left mouse button, select the position to zoom in on the playback screen, release the mouse, select the location screen is placed, click " (), the magnification screen is restored.
- Capture: When the video is played, click " to capture the settings to the local configuration settings.

- Video clip: When the video is played, click " " to start recording, and then click Save Clip File again, which is stored in the local configuration settings.
- Download: After querying the video file, click " to enter the video file list, select the download file, click "Download", the video file starts to download in order, stored in the local configuration settings location. The file download interface is shown in Figure 6-38. The "First Page", "Prev Page", "Next Page" and "Last Page" are used to scroll through all video files. The video file can be re-searched by the right calendar, file type, and channel location.

	Index	File Name	Start Time	Stop Time	File Size	Prograss	41.4		Jul	20	317		1.14
	1	0_69_2992_3824 h264	2017-06-29 03.22 15	2017-06-29 03 24 21	39.433 MB		Sun	Mon	Tue	Wed	Thu	Fri	Sat
	2	0_69_3832_5304 h264	2017-06-29 03 28 28	2017-06-29 03 32 11	69 373 MB								1
0	3	0_69_5312_7952 h264	2017-06-29 03:35 42	2017-06-29 03:41:15	124.214 MB		2	3	4	5	6	7	s
E	4	0_69_7960_12744 h264	2017-06-29 03:44:41	2017-06-29 03 56 43	225.053 MB		9	10	11	12	13	14	15
171	5	0 69 12752 18832 h264	2017-06-29.04 07:32	2017-06-29 04:17 48	192.060 MB		16	17	18	19	20	21	22
10	6	0_92_0_12488 h264	2017-06-29 04 17 49	2017-06-29 04 49 15	597 113 MB		23	24	25	26	27	28	29
1	7	0_92_12496_21536 h264	2017-06-29 04 54 01	2017-06-29 05 16 47	425 135 MB		30	31					
EL	8	0_95_0_2272.h264	2017-06-29 05 16 48	2017-06-29 05 22 31	117.072 MB								
171	9	0_95_2280_3920.h264	2017-06-29 05:30.48	2017 06 29 05 34 53	77.042 MB		File Type Channel		-				
10	10	0_95_3928_6160.h264	2017-06-29 06:00:00	2017-06-29-06.05:37	105.019 MB				Record			*	
1	11	0_95_6168_15896.h264	2017-06-29 10.02.52	2017 06 29 10 29 30	445.128 MB				3		•		
E	12	0_95_15904_16544.h264	2017-06-29 11:02:20	2017 06 29 11.03.57	30.156 MB								
11	13	0_95_16552_21824.h264	2017-06-29 11.26.20	2017-06-29 11:39:36	248.059 MB								
10	14	0_101_0_2536.h264	2017-06-29 11:39.36	2017-06-29 11:45.59	129.244 MB					0			
17	15	0_101_2544_21552.h264	2017-06-29 11:50:56	2017-06-29 12:38.46	893.441 MB					-			
EI.	16	0_106_0_21544.h264	2017-06-29 12.38.47	2017-06-29 13:33.01	1022.644 MB								
171	17	0_108_0_19344.h264	2017-06-29 13:33.02	2017-06-29 14:22.08	919.024 MB								
1	18	0_108_19352_20080.h264	2017-06-29 14:22:31	2017-06-29 14:24:41	34.311 MB								
17	19	0_108_20088_21560.h264	2017-06-29 14:25:12	2017-06-29 14:28:54	69.536 MB								
E	20	0_110_0_21560.h264	2017-06-29 14:28:55	2017-06-29 15:23:12	1023.378 MB								
					1	Download							
			Tate	26items First Page Pre	Page 17 Note	Inco LastRago							

#### Figure 6-38

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

#### Note

 Playback In fast forward or slow progress, the current status position in the upper right corner of the interface shows the playback rate.

# **7** Mobile APP Configuration: FreeIP

# 7.1 Installation & Register

FreeIP process: register→login→add device→service application

Step 1 Download and install on your smart phone by following way:

- 1) Android user, search for "FreeIP" in the Google App Store, iOS user, just search for "FreeIP" in the App Store.
- 2) Scan the following QR codes to download and install the App.



 Download from the following websites.
 Android application download address: https://play.google.com/store/apps/details?id=com.xc.hdscreen

iOS application download address: https://itunes.apple.com/cn/app/freeip/id898690336?mt=8



Mobile client currently supports only iOS and Android.

**Step 2** After installation, run "FreerIP", register an account according to the interface prompts.

# 7.2 Add Devices

**Step 1** Make sure that XVR is connected to the Internet, P2P is on, and is online.

Step 2 Set up the phone network; connect the phone to the wireless network.

**Step 3** Log into the mobile client and select "Device" from the sliding sidebar. The sliding sidebar is shown in Figure 7-2. After entering, click "+Add Device" at the bottom of the interface, select "The serial number to add" to scan the QR code of the device body or P2P interface, as shown in Figure 7-3.

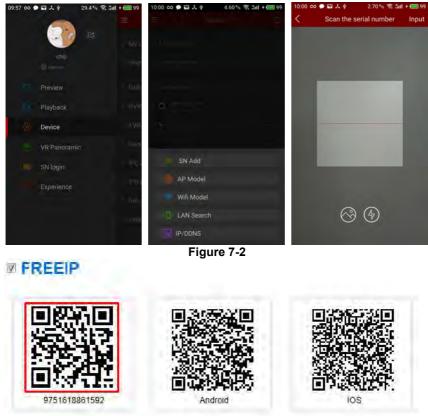


Figure 7-3

**Step 4** The phone will automatically recognize the QR code, enter the XVR user name, password and verification code, verification code printed on the random shipping standard label, click "Submit", then set the camera note and the camera groups, after clicking "Send", prompt "Add successful" will show up.

# 7.3 Live Preview

**Step 1** Select "Preview" from the App toolbar, then comes to the preview interface, as Figure 7-4.

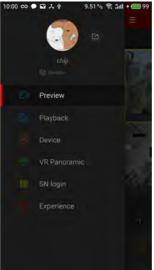


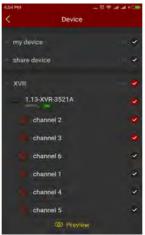
Figure 7-4

Step 2 Click "+" in the preview window as shown in Figure 7-5.

≡		Preview		
disease of the				
				Acres
	4		16	Fluent
				88
				-
	$\bigtriangledown$	0		

Figure 7-5

**Step 3** Select the device preview channel in the device list group, then click "Preview" as shown in Figure 7-6.



#### Figure 7-6

Step 4 Preview real-time video as shown in Figure 7-7 below



Figure 7-7



In the real-time preview interface in addition to switch preview mode, you can also do video, capture, set the sound and other operations, if the channel has PTZ function, but also do control PTZ, focus and other actions.

# 7.4 Playback

**Step 1** Select "Playback" from the App toolbar, then comes to the video playback interface, as Figure 7-8.

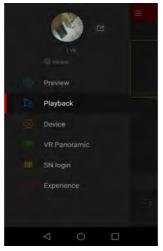


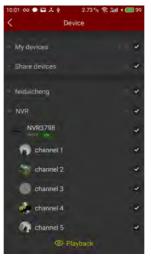
Figure 7-8

Step 2 Click "+" in the preview window, as shown in Figure 7-9.



Figure 7-9

**Step 3** Select the device playback channel in the device list group, then click "Playback " as shown in Figure 7-10.



#### Figure 7-10

Step 4 The recording of the playback device is shown in Figure 7-11 below.

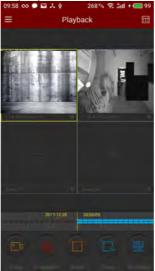


Figure 7-11

# 8 Appendixes

# 8.1 Q&A

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

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

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

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

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

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

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

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

## 5. Whether can playback when recording?

Answer: Yes.

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

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

# 7. Why can't login to XVR client?

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

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

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

# 8.2 Maintenance

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

2. Ensure XVR away from high temperature heat source and place.

3. Remove the dust deposited in the body timing, keep the good ventilation around chassis, it is good for radiating.

4. About the audio/video signal line and RS-485 interfaces, kindly please don't hot swap, or these port will be damaged easily.

5. Check the HDD power cable and data cable of the XVR regularly and look whether they are aging.

6. Avoid the audio/video signal affected by other circuits and devices as much as possible, prevent the hard disk damaged by electrostatic or induced voltage.