# **Coaxial HD XVR**

# **User manual**

Version 6.1.49.4



# Declaration:

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Product 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 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.
danger	Dangerous words, indicates a high degree of potential risk, which could result in a great risk of casualties 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 (10%~90%)and temperature (-10 $^{\circ}$ C~+55 $^{\circ}$ C).



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 recomended 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**

# Functions

Functions as below:

• 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 synchronised when it is composite stream encoding.
- Support HDTVI, AHD, CVI, CVBS switching adaptive.

- Support the option mode of video input and video output.
- IP channel function can be quickly added.

• Support fast search, four-way playback (Hi3520DV200 series maximum support one-way playback ) and backup function and can greatly improved the video retrieval and playback efficiency.

• Support H.264 video compression format network camera access, HI3521A system, HI3531A series maximum support 800W resolution, HI3520Dv300 maximum support 500W resolution, HI3520DV200 maximum support 1080P resolution.

- G.711µ audio compression format.
- USB2.0 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.

• 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, 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 release and slow release in playback, support mouse drag positioning.
- Support 1-4 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.

# Alarm and exception management

### Features as below

- Support alarm input / output arming time setting.
- 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:

• Hi3520D V200 series support one 10M / 100M adaptive network interface, other models support a 10M / 100M / 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 PRO.
- •Support ONVIF protocol access to platform.

# **2** XVR Appearance

# 2.1 The Front Panel

2.1.1 The Front Panel (For informational purposes only, subject to object)



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	Direction button, OK Return button	Move the button up or down, right or left to select menu,Return to the multi-channel preview.
5	USB2.0	Connect mouse or USB memory stick backup

# 2.2 Rear Panel

2.2.1 Rear Panel (For informational purposes only, subject to object)



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

### **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	1. When interface not locking , click right mouse button,

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.
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. Double click the password input field on the login interface; 3. 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	1.Multi-channel view drag one channel to another channel position.2.Channel interchange 3.Drag progress bar to playback video.
Slide mouse scroll wheel	1.Time setting; 2.Select the drop-down menu values;

# 2.4 Remote controls

The remote control is the secondary input device.

To use the remote control:

1. STANDBY:Press to turn standby mode ON/OFF.

2. LOGIN/LOCK: If "Security" has been enabled in the Setup menu, press to open the user password login screen.

3. Number/Channel buttons: While in menus, press buttons 0~9 to enter values; during live viewing, press to view channels in full-screen.

4. Multiple-window switch: Press to switch between Single and split-screen displays.

5. PTZ: Press to open the PTZ control Interface.

- 6. MENU: Opens the main menu.
- 7. EXIT: Close menu windows.
- 8. Navigation/Enter:
- A: Move cursor in menus up;
- Move cursor in menus right;
- 4: Move cursor in menus left;
- ▼: Move cursor in menus down;

9. +/ - : In menus, press to adjust values. 10.Playback controls :



- Press to start playback.
- Press to increase forward playback speed 2X, 4X, 8X.
- M: Press to slow playback speed by 1/2, 1/4, 1/8.
- <<: Increase reverse playback speed 2X, 4X, 8X.

• **•**: Pause or frame by frame playback picture; press for the first time to pause playback image; then continue continuous press, a second one frame every player;

11. STOP: Press to stop playback .

12. RECORD: Press to start manual recording, then press again to stop manual recording.

13. MUTE: Close live audio output.

- 14. AUDIO: Enter the volume control interface.
- 15. EXTRA: For the future use.



• When use remote control, please align the infrared transmitter of the remote control with the DVR's IR receiver, and then operate.

• During the whole operation, the DVR panel and monitor will not have any prompt information.

# 2.5 Input Method Introduction

Input method includes lowercase and uppercase English letters. Clicking the Shift button on the left can switch the input method and the symbol " $\leftarrow$ " represents deleting incorrect input.



Uppercase English input



Lowercase English input

# **3** Connecting XVR

# 3.1 Hard Disk Installation



1.Please use the Monitor dedicated hard disk that is recommended by the device manufacturer.

2.Please make sure the power is off before installation.

3. The maximum quantity of hard disks can be installed is differ in different device models.

Hard Disk Installation:

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



(2) Align the four holes of hard disk button with hard disk mounting hole at the button of chassis.



 $^{(3)}$  Hold the hard disk with hand, turn over the chassis, fix the hard disk with screw at the indicated position.



(4) After hard disk installed, turn over the chassis, fix the cover with screw.



**Note:** 1. If user requires high performance of hard disk, we recommend the dedicated security hard disk.

2. Before replacing the hard disk, please shut off the power first and then open the case.

### **3.2 Device Connection**



You will be responsible for the risk if you connect the products to the internet, including but not limited to the risks that may subject to network attack, hacker attack, virus infection, etc. Therefore, we will not be responsible for any abnormal work and information leakage that it causes, but timely technical support will be provided.

Please connect VGA cable / HDMI cable to the monitor for video output, or connect BNC coaxial cable to CVBS interface. If it is PTZ camera, please respectively connect the PTZ RS485 line A and line B to XVR's RS485 interface.



# **4** XVR Start up

# 4.1 System Initialization

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

Notes: 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 start up wizard, see Figure 4-2. Click Cancel/Next button, you can see system goes to login interface, see Figure 4-3.



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.

衸 User login	
User Name	admin
Password	
Language	English
Login	Cancel

Figure 4-3

After logging in, you can go to Common interface; the basic configuration of the device can be set. See Figure 4-4. For detailed information, please refer to chapter 5.5.5.1.

😽 General				
	Device setting	Date		
	Language	English	~	
	Record mode	Overwrite	~	
	Record days	No limit	×	
	Video standard	PAL	~	
	Standby time(min)	10		
	Device name	XVR		
	Defaults	Apply	Next step	

Figure 4-4

Click Date button, you can go to date setting interface; you can configure the time parameters of the device. See Figure 4-5. For detailed information, please refer to chapter 5.5.5.1.

Device setting	Date
Set date/time :	nanually
Dateitime	2016 - 11 - 29 16 : 59 : 51
🗸 Receive date/t	ime from NTP
NTP Server	time.windows.com
Time Zone	GMT+00:00 ~
NTP Port	123
NTP Interval(Min)	10
Date format	Year Month Day
Date separator	. ~
Time format	24 hours

Figure 4-5

Click Next button, you can go to Network interface, You can configure the network parameters of the device. See Figure 4-5. For detailed information, please refer to chapter 5.5.2.1.

IP Address		192	٠	168	٠	1	٠	34	
V Enable DHCP		R	efre	sh					
Network Mask		255	÷	255	•	255	•	0	
Gageway		192	•	168	•	1	•	1	
Primary DNS		202	•	96	٠	134	•	133	
Secondary DNS		202	٠	96	٠	128	•	86	
Broadcast IP		0	•	0	٠	0	٠	0	
Device MAC		11:22:3	3:44	:55,66					
TCP Port	5000	н	TTP	Port		8	)		
RTSP Port	554								

Figure 4-6

Click Next button, you can go to Mode Selection interface, and you can choose Automatic network mode or Manual mode. See Figure 4-7.



Figure 4-7

Click Next button, you can go to Remote Device interface, You can search for and add the IPC devices. See Figure 4-8. For detailed information, please refer to chapter 5.5.1.1.

Auto add		Filter Onvif	~
onf. Link IP	Port Prot	io Device Name	Device Type
da		left net width:	100.00 M/s
	Auto add Sonf. Link IP dd Previous Step Ne	Auto add conf. Link IP Port Prof dd Previous Step Next Step	Auto add Filter Onvil conf. Link IP Port Proto Device Name dd left net width: Previous Step Next Step Cancel

Figure 4-8

Click Next button, you can go to Rec Setup interface; you can configure the record schedule. See Figure 4-9. For detailed information, please refer to chapter 5.5.4.1.



Figure 4-9

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 4-10.



Figure 4-10

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 recording;

this icon means monitoring channel is in motion detection.

#### 4.4 Quick adding function

At the preview menu, for the channel of unconnected IP Camera, you can quickly click the "+" icon to add the camera device when your mouse move to the middle of the channel menu. As shown in Figure 4-11 and 4-12.



Figure 4-11

	IP Poi	rt Protocol	Device Name	Device Type
Search	Manual Add		Filler	wif
	Ad	d C	Cancel	

Figure 4-12

- > Device search: Search the IP address of the IPC client device.
- Manual Add: please referring to Manual Add in section 5.3.4.1.
- Filter: Filter the display of the searched device list.
- Add: Click "search", the XVR can search the IPC device which support the onvif 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.
- > **Cancel:** Return to the previous menu.

# 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 Control and System Shutdown. 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.



Figure 5-1

- Single-screen Display: Select one channel to display from CH1~CH16.
- Four-screen Display: Divided into four groups to display (CH1~CH4、 CH5~CH8、CH9~CH12、CH13~CH16).
- Eight-screen Display: Divided into two groups to display (CH1~CH8、CH9 ~CH16).
- Night-screen Display: Divided into two groups to display (CH1~CH9、 CH10~CH16).
- Sixteen-screen Display: Display all channels CH1 ~CH16.
- Twenty five-screen Display: Display all channels CH1 ~CH25.
- Poll: XVR supports polling decoded output, in accordance with a preset time interval, the polling scheme for automatic switching display. See chapter 5.1.1.
- Volume: Click to enter the volume setting interface.(Detailed operation as 5.1.2)

- Record Set: Enter Video backup Interface and insert the USB Disk. Then choose the channel and date that you want to back up the videos.
- PTZ Setup: XVR supports PTZ control, allowing users to remotely control the camera.(Detailed operation as 5.1.3)
- Image Color: Click into the image color configuration interface. (Detailed operation as 5.1.4)
- > **Playback:** Click into the Playback interface.(Detailed operation as 5.3.1)
- Remote Device: Click and enter the remote device configuration menu.(Detailed operation as 5.5.1.1)
- Main Menu: Click and enter the main menu.

#### 5.1.1 Poll

For Camera sequence, that is, video are sequenced according to the preset scheme. Click right in the preview screen, select the Poll on the shortcut menu, and enter the Poll setting interface, shown in Figure 5-2.

😂 Poll		
Enable Time Mode	5 1	sec
Default	Save	Cancel

Figure 5-2

- **Enable:** ON/OFF poll.
- **Time:** Setting polling switching interval setting range is 5-255 seconds.
- > Mode: Alternatively a single picture, four pictures, nine pictures polling.
- > Default: Reset.
- Save: Save the Poll settings.
- > Cancel: Exit the current menu.

#### 5.1.2 Volume Settings

Click right in the preview screen, select the volume option into the shortcut menu, and enter the volume setting menu, shown in Figure 5-3.

📢) Volume		
√ Mute Output gain		
	Apply	

Figure 5-3

- Mute: ON/OFF volume.
- > **Output gain:** Volume adjustment bar, drag the slider to adjust the volume.
- > Apply: Save the volume settings.

#### 5.1.3 PTZ Setup

In the preview channel, right click mouse, select "PTZ", the preview will switch to the corresponding channel single-screen display, and the emergence of PTZ control interface, shown in Figure 5-4:





Adjusts the movement speed of the PTZ, Directional Buttons controls the movements and directions <u>of the P</u>TZ.

- Zoom: You can click Q / Q to adjust camera zoom in/out.
- ➢ Focus: You can click ₩ / ▲ to adjust camera focusing.
- Iris: You can click S / S to adjust camera brightness.
- Presets point: The presets box choose a certain preset point need go to, After clink on the swith icon, PTZ will jump to that location.
- Speed: Speed is to control PTZ movement speed. The value ranges from 1 to 8.The speed 8 is faster than speed 1.

Patrol Setup: Set the function of cruise, and related presets setting of cruise, including dwelling time and cruising speed. Shown in Figure 5-5 and Figure 5-6;

Cruis	e 1	~	Enabled	
No.	Name	Preset	Speed	Stay Time
1	Cruise1	.0	0	0
2	Cruise2	0	Q	0
3	Cruise3	0	0	0
4	Cruise4	0.	0,	0
5	Cruise5	0	0	0
6	Cruise6	0	0	0

Figure 5-5

Preset No.	1	٧.
Stay Time	0	
Speed	0	~

Figure 5-6

- Set the preset position: Turn the camera direction buttons to the desired location, and then click select cruise group, double-click to set the preset in the pop-preset settings interface to select the preset number, Stay time (seconds) and cruising speed, return Patrol Setup interface and click "OK" again to save.
- **Enabled:** Start patrol, and patrol in fixed path.
- **Stay Time:** Stay time on the Preset.
- > Patrol speed: Speed for Cruise.

**Notice:** the XVR supports maximum 128 preset point, however, it is also affected by the PTZ Camera itself, for different PTZ Camera, the number of preset point supported could vary a lot.

#### 5.1.4 Image Color

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

	iannel 13 ~	
Bright		128
		128
Saturation		128
Sharpness		128

Figure 5-7

- Channel: Select the Channel number.  $\geq$
- ۶ Bright: It is to adjust monitor window bright.
- AAAA Contrast: It is to adjust monitor window contrast.
- Saturation: It is to adjust monitor window saturation.
- Sharpness: The value here is to adjust the edge of the video.
- Default: Recover all the Image Color parameters to default value.
- ≻ Save: Save configured parameters value on Image Color interface.
- ⊳ Cancel: Return to last management menu.

#### 5.2 Main Menu

Main Menu includes Record Playback, System Info, Camera, Network, Event, Storage, and System Setup, as shown in Figure 5-8. Select one and click the left mouse button to open the corresponding next menu options.



Figure 5-8

# 5.3 Operate

#### 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 5-9.



Figure 5-9

No.	Name	Function Specification
1	Calendar	The red 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. (Up to four channels simultaneously selected)
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	Backup	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, fast forward, fast forward playback mode, you can select 1×, 2×, 4×, 8×, 16×, 1×which is played at normal 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 timeline, other playback mode displays only one 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, timed recording, alarm recording and detection recording.
8	Timeline unit selection	Including zoom in and out, the smaller units of time the g reater the proportion of time zoom, you can adjust the ex act 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 5-10.



Figure 5-10

In the file list box, click to choose the video file showed icon " $\sqrt{}$ ", then click this icon to backup the video files (external U disk), the files are "avi" format. You could also click to choose multiple video files selection box to backup those video files, users can also cancel this icon " $\sqrt{}$ " in the backup operation menu in the file list box, delate those video files that unwanted.

#### 5.3.2 Shutdown

Click "Shutdown" icon in the main menu, switch to interface as . Therefore, the system can be logout, reboot, and shut down, as followed Figure 5-11 shows.





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

## 5.4 Information

#### 5.4.1 Information

#### 5.4.1.1 Stream Information

Choose "Menu $\rightarrow$ Info $\rightarrow$ System $\rightarrow$ Stream Information" in the Menu interface, the Stream Information interface is displayed, as Figure 5-12 shows.

System	Log				
Stream info					
Version info	CH Kb/S	Resolution			
	1 4206.5	1920x1080			
		0x0			
	3 4159.3	1280x1024			
	4 5222.5	1920x1088	1		
	< 1/7 >				
	Recy Rate:	13.27 M/s	Send Rate:	0.00 M/s	
		00	Cancel		

Figure 5-12

#### 5.4.1.2 Version Information

Choose "Menu $\rightarrow$ Info $\rightarrow$ System $\rightarrow$ Version Information" in the Menu interface, the Version Information interface is displayed, as Figure 5-13 shows.



#### Figure 5-13

Users can find system version, including device name, model number, system version, Version Date.

- > Model name: Name of the device.
- > Model NO.: Type of the device.
- > Version: System version number.
- > Date: Date of device version.

#### 5.4.2 Log

#### 5.4.2.1 Log Information

Choose "Menu $\rightarrow$ Info $\rightarrow$ Log" in the Menu interface, the Channel Name interface is displayed. Here is for you to view system log file, as Figure 5-14 shows.

System			
	Туре	All logs	
	Start Time	2015 - 07 - 10 00 : 00 : 00	
	End Time	2015 - 07 - 10 23 : 59 : 59	Query
	No. Time	Event	User
	PgUp	PgDn Clear	Cancel

Figure 5-14

Viewing System Logs to access the logs and search for these events on one day a certain period of time.

- **Type:** Select the type of information you request.
- Start Time/End Time: Enter the time to find the logs.
- Search: Search for logs according to criteria.
- > **PgUp/PgDn:** You can view all logs through the PgUp/PgDn.
- Clear: Clear all information.
- **Cancel:** Return to the former menu.

**Specific Steps:** Enter the log search menu, set search parameters, click the Search button to begin search, If logs matching the search criteria are found, it will be displayed in a list, To view all logs through PgUp/PgDn button.

# 5.5 Setup

#### 5.5.1 Camera

#### 5.5.1.1 Camera Setup

Choose "Menu→Setup→Camera→Camera Setup" in the Menu interface, or right-click in live view mode and select Remote Device from the Shortcut Menu, the Camera Setup interface is displayed, as shown in Figure 5-15. Here you can add/delete remote device and view its corresponding information.



Figure 5-15

- search: Click it to search IP address. It includes device IP address, port, 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.
- Add: Click it to connect to the selected device and add it to the Added device list. Support Batch add.
- Filter: You can use it to display the specified devices from the added device.
- Delete: Please select one device in the Added device list and then click "x" to remove. \_\_\_\_
- Status: means connection is ok and means connection failed.
- **Confirm:** Return to last menu.
- **Cancel:** Return to last menu.

**Remark:** Click on the title bar icon " $\sqrt{}$ ", select all the available IPC device, click again to cancel all selected. Click the "x" icon can quickly delete the device at the "Device Added" list.

Click the "Manual Add" button to add the IPC manually, you can go to the following interface. See Figure 5-16.

Channel	СН2 🗸	
🗸 Enable		
Protocol	ONVIF	1
Preview	Sub 🗸	
User Name	admin	
Password	****	
() IP	0 • 0 • 0 • 0	
domain		<b>~</b>
Port	80	

Figure 5-16

- Channel: Users can type in the channel number that needs to be connected to the remote device according to their needs.
- Enable: The channel enable on/off, defaulting to be off. Tick "Enable" then the related channels can be previewed and recorded normally.
- **Protocol:** Onvif agreement.
- Preview: Sub-stream preview is defaulted and IPC port should be dual-stream. Both should be in the format of H264 code to be previewed normally and the resolution of the sub-stream 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: IP address of IPC added to XVR.
- **domain:** Domain name of IPC added to NVR.
- > Port: IPC port.
- Save: Saving the setup parameters of current channels
- **Cancel:** Going back to the former management interface.

#### 5.5.1.2 Encoding

Choose "Menu $\rightarrow$ Setup $\rightarrow$ Camera $\rightarrow$ Encode" in the Menu interface, the Encoding Parameters interface is displayed, as Figure 5-17 shows. Resolution, Frame Rate, Stream Type, Bit Rate, Sub-stream can be set under "Param" Interface.

	Network	Event	Storage	System
Camera setup Encode	Channel Encode Level	1 Baseline	-	
on anner hanne		Main stream	Sub s	tream
	Encode Mode	Video	Video	~
	Encode Type	H264	V H264	~
	Resolution	1920x1080	~ 720x480	). ~
	Stream Control	VBR	VBR	~
	I-Frame Interval	0	- 30 0	30
	Quality	Worst	Worst	~
	Frame Rate		0 30	<b>0</b> 30
	BitRate(Kb/S)	3072	1024	
	Refer Bitrate(Kb/S)	512-8192	128-2048	
	Default	Confi	m Cancel	Apply

Figure 5-17

- > Channel: Select the channel you want.
- Encode Level: Please select from the dropdown list. There are three options: High Profile/Main Profile/Baseline.
- > Encode mode: Selectable video stream and video/audio streaming.
- > Encode type: System supports H.264.
- Resolution: System supports various resolutions, you can select from the dropdown list. Please note the option may vary due to different series.
- Stream Control: System supports two types: CBR and VBR. In VBR mode, you can set video quality.
- Frame Rate: PAL type: 1 frames / sec-25 frames / sec; NTSC type: 1 frames / sec-30 frames / sec.
- Bit Rate: Setting bit rate can change the picture quality, the larger the bit rate and the better the picture quality.
- > **Refer BitRate:** Rate to provide the best value reference range.
- Copy: After you complete the setup, you can click Copy button to copy current setup to other channel(s).
- > Apply: Save the parameters on Encode configuration menu.
- **Cancel:** Return to the former interface.

#### 5.5.1.3 Channel Name

Select "Menu $\rightarrow$ Setup $\rightarrow$ Camera $\rightarrow$ Channel Name" in the Menu interface, the Channel Name interface is displayed, it is to modify channels name, as shown in Figure 5-18.
	Network	Event	Storage	System
Camera setup				
Encode	Channel1	CH1	Channel2	CH2
Channel name	Channel3	СНЗ	Channel4	CH4
	Channel5	СН5	Channel6	CH6
	Channel7	CH7	Channel8	CH8
	Channel9	снэ	Channel10	CH10
	Channel11	СН11	Channel 12	CH12
	Channel13	CH13	Channel14	CH14
	Channel15	CH 15	Channel16	CH16
	Default	Confirm	Cancel	Apply

Figure 5-18

# 5.5.2 Network

## 5.5.2.1 Network

Choose "Menu $\rightarrow$ Setup $\rightarrow$ Network $\rightarrow$ IP/Port" in the Menu interface, the Channel Name interface is displayed, as Figure 5-19 shows.

Camera	Network	Event	Storage	System
IP/Port				
DDNS	IP Address	172	• 18 • 197 • 18	2
Email	Fnable DHCP	Refrest	h	
P2P	Network Mask	255	• 255 • 248 • 0	1
FTP	Gateway	172	• 18 • 192 • 2	1
UPNP	Primary DNS	202	• 96 • 134 • 13	3
PPPOE	Secondary DNS	202	• 96 • 128 • 68	
Cloud storage	Broadcast IP	0	• 0 • 0 • 0	
	Device MAC	11:22:33	3:44:55:66	
	TCP Port	5000	HTTP Port	30
	RTSP Port	554		
	Default C	onfirm	Cancel	Apply



> IP Address: Here you can input IP address of XVR.

- DHCP: If the router allows DHCP functionality, select DHCP. The IP Camera will obtain IP address automatically from the router. If the router does not allow for DHCP functionality, then the IP address must be obtained manually.
- Subnet Mask: Subnet mask of XVR.
- > **Default Gateway:** Default gateway of XVR.
- 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:** Reserved.
- MAC: The host in the LAN can get a unique MAC address. It is for you to access in the LAN.
- > **TCP Port:** Default value is 5000.
- > HTTP Port: Default value is 80.
- > **RTSP Port:** Default value is 554.
- > **Default:** Restore all parameters of network setup to be defaulted ones.
- > **Apply:** Save parameters of network setup interface.
- > **Cancel:** Cancel the set Network of current interface.

## 5.5.2.2 DDNS

Choose "Menu $\rightarrow$ Setup $\rightarrow$ Network $\rightarrow$ DDNS" in the Menu interface, the DDNS interface is displayed, as Figure 5-20 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).

Camera	Network	Event	St	prage	System
IP/Port					
DDNS					
Email					
P2P	🗸 Enable DO	INS			
FTP	DDNS Type	ł	ORAY	~	]
UPNP	Refresh Time	(sec)	60		]
PPPOE	UserName				
Cloud storage	Password				
	Domain				
	Default	Confirm	Ca	ncel	Apply



DDNS Type: DDNS Types can be chosen via DDNS. ( currently the list supports various DDNS, including ORAY DDNS, 3322 DDNS, TZO DDNS and DYNDNS DDNS. These DDNS can be multiple operated according to users need and setup. )

- **Enable:** Enabling DDNS domain resolving function.
- Refresh Time: 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 of DDNS setup to be defaulted ones.
- > **Apply:** Saving the parameters in the DDNS setup interface.
- **Cancel:** Going back 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.

## 5.5.2.3 Email

Choose "Menu $\rightarrow$ Setup $\rightarrow$ Network $\rightarrow$ Email" in the Menu interface, the Email interface is displayed, as Figure 5-21 shows. When warning information appears in the interface, one can send mails to the designated mail address.

Camera	Network Event	Storage	System
IP/Port DDNS	✓ Enable e-mail alarm no	tifications	
Email	SMTP server	SMTP port	465
FTP	Username	User	
UPNP	Password		
Cloud storage	Sender Recipient	User@domain.com User@domain.com	
	Subject	XVR ALERT	
	Message interval(Min) Encryption	1 SSL V	
	🗸 Attach file	E-mail test	
	Defaults	Confirm Apply	

Figure 5-21

- > Enable e-mail alarm notifications: Enabling the mail sending function.
- SMTP server: the address of the mail server, which can be an IP address and a domain name (domain name needs the confirmation of the correct DNS setup to be resolved correctly).
- SMTP Port: Port number of the mail server.
- > Anonymity Logion: Port number of the mail server.

- > Username: User name of the sender's mail.
- > **Password:** Password of the corresponding user name.
- Sender: Setting the EMAIL address of the mail sender.
- Recipient: The warning information can be sent to the designated receiver via mail.
- > **Theme:** The theme of the mail can be set by yourself.
- Message Interval: Interval for sending the alarm mail.
- Encryption: Enabling SecureSocketLayer port when logging in the mail server.
- Attach File: When motion detection cooperation is enabled, picture file would be uploaded at the same time if warning information appears.
- > **Default:** Setting all the parameters in the Email Setup interface to be default.
- > **Confirm:** Saving the parameters in the Email Setup interface.

## 5.5.2.4 P2P Config

Choose "Menu $\rightarrow$ Setup $\rightarrow$ Network $\rightarrow$ P2P" in the Menu interface, the P2P interface is displayed, as Figure 5-22 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.

Camera	Network	Event	Storage	b) i	System
IP/Port DDNS Email P2P FTP FTP UPNP PPPOE Cloud storage	Status, ≁ Enab User num Refresh	Offline le P2P F Ber 0	Andro id		
	Cont	irm Ca	ncel	Apply	

Figure 5-22

- > Android: Download Link of P2P client for Android system.
- > **iOS:** Download Link of P2P client for iOS system.
- > **Apply:** Save configured parameters value on video configuration menu.
- > **Cancel:** Return to last management menu.

XVR devices support FreeIP PRO client, check " $\sqrt{}$ " of Enable P2P to open the platform P2P functionality.

## 5.5.2.5 FTP

Choose "Menu $\rightarrow$ Setup $\rightarrow$ Network $\rightarrow$ FTP" in the Menu interface, the FTP interface is displayed, as Figure 5-23 shows. You need to download or buy FTP service tool (such as Ser-U FTP SERVER) to establish FTP service.

Camera	Network	Event	Storage	System
IP/Port	🗸 Enable	FTP		
DDNS	FTP Serve	0	0 • 0 • 0	
Email	FTP Port	21		
P2P	User Name			
	Password			
UPNP	FileUpload	i 📘		
PPPOE				
Cloud storage	Channel	1	¥	
	Week	Tues	*	Motion
	Time Perio	od1 00 :	00 - 00 : 00	
	Time Perio	nd2 00 :	00 - 00 : 00	~
	Test			
	Default	Confirm	Cancel	Apply

Figure 5-23

- > Enable FTP: Enable to activate FTP function.
- **FTP Server:** IP address or HTTP network address of FTP server.
- FTP Port: The default FTP port is 21, if your FTP server is different, you need to use the same port name with your FTP server.
- **User Name:** Your FTP account user name.
- > **Password:** Your FTP account password.
- File Upload: You can use XVR FTP upload video file to FTP server.
- > Default: Setting all the parameters in the FTP Setup interface to be default.
- > Apply: Save configured parameters value on FTP configuration menu.
- Cancel: Return to last management menu.

## 5.5.2.6 UPNP

Choose "Menu $\rightarrow$ Setup $\rightarrow$ Network $\rightarrow$ UPNP" in the Menu interface, the UPNP interface is displayed, as Figure 5-24 shows. The UPNP protocol is to establish a mapping relationship between the LAN and th e WAN.

Camera	Network		Event		Storage	System
IP/Port DDNS Email P2P FTP UPNP PPPOE	✓ Enable State Internal IP External IP Port mapping ✓	0 • 0 • table Server	0 • ( 0 • ( Name	0 • 0 0 • 0 Protocol	Internal Port	External Port
Cloud storage	Add Delet Defaul	e	Confi	m	Cancel	Apply

Figure 5-24

- > Enable: Turn on or off the UPNP function of the device.
- State: When the UPNP is offline, it shows as "Unknown". When the UPNP works it shows "Success".
- > Internal IP: It is the router IP in the LAN.
- > External IP: It is the router IP in the WAN.
- Port mapping table: The port mapping list here is the one to one relationship with the router's port mapping setting.
- > Add: Click it to add the mapping relationship.
- > **Delete:** Click it to remove one mapping item.
- > Default: Setting all the parameters in the UPNP setup interface to be default.
- > **Apply:** Save configured parameters value on UPNP configuration menu.
- > Cancel: Return to last management menu.

## Important:

When you are setting the router external port, please use 1024~5000 port. Do not use well-known port 1~255 and the system port 256~1023 to avoid conflict.

For the TCP and UDP, please make sure the internal port and external port are the same to guarantee the proper data transmission.

## 5.5.2.7 PPPOE

Choose "Menu $\rightarrow$ Setup $\rightarrow$ Network $\rightarrow$ PPPOE" in the Menu interface, the PPPOE interface is displayed, as Figure 5-25 shows. It is used mainly with ADSL services where individual users connect to the ADSL transceiver (modem) over Ethernet and in plain Metro Ethernet networks.

Camera	Network	Event		Storage	System
IP/Port DDNS Email P2P FTP UPNP UPNP Cloud storage	Se Pa IP	Enable rver Name Isword Address	0 • 0	3 • 0 • 9 • 0 •	•
	Default	Confirm		Cancel	Apply

Figure 5-25

- **Enable:** Enabling the mail sending function.
- Server Name: the address of the mail server, which can be an IP address and a domain name (domain name needs the confirmation of the correct DNS setup to be resolved correctly).
- > **Password:** Port number of the mail server.
- IP Addre: The IP in the PPPoE is the DVR dynamic value. You can access this IP to visit the unit.
- Default: Setting all the parameters in the PPPOE setup interface to be default.
- > Apply: Save configured parameters value on PPPOE configuration menu.
- > Cancel: User name of the sender's mail.
- ≻

## 5.5.2.8 Cloud storage

Choose "Menu $\rightarrow$ Setup $\rightarrow$ Network $\rightarrow$ Cloud storage" in the Menu interface, the cloud storage interface is displayed, as Figure 5-26 shows.

Camera	Network	Event	Storage	System
IP/Port				
DDNS				
Email				
P2P				
ETP	V Enable	x	Bind	
UPNP	🗸 Google		Bind	
Cloud storage	Test			
	Upload fol	der event_picture		
	Username	capacity	Used:	
	Default	Confirm	Cancel	Apply

Figure 5-26

- > Enable Cloud storage: Enable to activate cloud storage function.
- **Dropbox:** Cloud Storage Type.
- **Google:** Cloud Storage Type.
- Test: Bind and click on the test to confirm whether the cloud storage binding is successful.
- > Upload folder: Upload folder name.

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.

## 5.5.3 Event

## 5.5.3.1 Motion Detection

Choose "Menu $\rightarrow$ Setup $\rightarrow$ Event" in the Menu interface, the Motion Detection interface is displayed, as Figure 5-27 shows. When the system detects a mobile signal reaches a preset sensitivity occurs, motion detection alarm and the linkage function will be initiated by analyzing the video image.

Camera	Network	1 4	Event	Storage	System
Motion Detection					
Exception					
Video loss					
Local alarm	Chan	nel	1	Set area	
	Sens	tivity	Middle		~
	Ý 1	inable detecti			
	~1	luzzer alarm			
	Buzz	ar Time(sec)	1		
	~ 1	tecord Chann	el		
	Reco	rd Time(sec)	60		
	Default	Сору	Confirm	Cancel	Apply

Figure 5-27

- Channel: Select the motion detection channel. 2 option: Single and All), for the Single channel, you need to choose the particular channel.
- Set Area: The video is blocked by the detection area, and an alarm according to the configuration
- Sensitivity: Six values can be set for the sensitivity.
- **Enable detection:** Click " $\sqrt{}$ ", turn on the motion detection function.
- Buzzer alarm: Select the check box, The system will trigger the buzzer alarm when motion detect.
- **Buzzer Time:** Set the buzzer alarm duration.
- Record Channel: Click " $\sqrt{}$ ", Select the wanted video channel, and the system will trigger the video signal of the selected channel.
- Record Time: Set the trigger recording duration.
- > Default: Recover all the detect setting parameters to the default values.
- Copy: After you complete the setup, you can click Copy button to copy current setup to other channel(s).
- > Apply: Save the set parameters of current menu.
- **Cancel:** Don't save the set parameters of current menu.

## 5.5.3.2 Exception

Choose "Menu $\rightarrow$ Setup $\rightarrow$ Event $\rightarrow$ Exception" in the Menu interface, the Exception interface is displayed, as Figure 5-28 shows.

Camera	Network	Event	Storage	System
Motion Detection Exception Video loss Locat alarm	Disk Exce Event typ ✓ Enable ✓ Screer ✓ Send s ✓ Butzer	ption Network E e <u>No D</u> h display s-mail r alarm	xception Isk V Isk Error	
	Default	Confirm	Cancel	Apply

Figure 5-28

- **Disk Exception:** There are two types: No Disk/Disk Error.
- > Network Exception: There are two types: Broken Network / IP conflict.
- **Enable:** Click " $\sqrt{}$ ", turn on the motion detection function.
- Screen display: System can pop up the message in the local screen to alert you when alarm occurs.
- **Send e-mail:** System can send out email to alert you when alarm occurs.
- Buzzer alarm: Highlight the icon to enable this function. The buzzer beeps when an alarm occurs.
- > Apply: Save the set parameters of current menu.
- Cancel: Don't save the set parameters of current menu.

## 5.5.3.3 Video loss

Choose "Menu $\rightarrow$ Setup $\rightarrow$ Event $\rightarrow$ Video loss" in the Menu interface, the video loss interface is displayed, as Figure 5-29 shows.

Camera	Network		Storage	System
Motion Detection Exception Video loss Local alarm	Channe ✓ Enal ✓ Sort ✓ Sen ✓ Buz ✓ Alar	) 3 ble den display d e-mail zer alarm m ouput	<u> </u>	
	Default	Confirm	Cancel	Apply

Figure 5-29

- > **Channel:** Select the analog channel you want to set.
- **Enable:** Click " $\sqrt{}$ ", turn on the video loss function.
- Screen display: System can pop up the message in the local screen to alert you when alarm occurs.
- Send e-mail: System can send out email to alert you when alarm occurs.
- Buzzer alarm: Highlight the icon to enable this function. The buzzer beeps when an alarm occurs.
- > Apply: Save the set parameters of current menu.
- > **Cancel:** Don't save the set parameters of current menu.

## 5.5.3.4 Local alarm

Choose "Menu $\rightarrow$ Setup $\rightarrow$ Event $\rightarrow$ Local alarm" in the Menu interface, the local alarm interface is displayed, as Figure 5-30 shows.

Camera	Network	Event	Storage	System
Motion Detection				
Exception	🗸 Enable			
Video loss	Alarm input	1	*	
Local alarm	Alarm name	alarm_in1		
	Week	Tues	~	
	Time period1	00 : 00	- 00 : 00	
	Time period2	00 : 00	- 00 : 00	
	🗸 Alarm oup	ut		
	🗸 Screen dis	play		
	🗸 Sendie-ma			
	🗸 Buzzer ala	rm		
	Default	Confirm	Cancel	Apply

Figure 5-30

- **Enable:** Click " $\sqrt{}$ ", turn on the local alarm function.
- > Alarm input: Select the analog channel you want to set.
- > Alarm name: User-defined alarm name.
- > Week: Week selection.
- > **Time period1 & 2:** Time period setting.
- Alarm output: Click " $\sqrt{}$ ", turn on the local alarm output function. When an alarm event occurs, the external alarm module alarm device.
- Screen display: System can pop up the message in the local screen to alert you when alarm occurs.
- Send e-mail: System can send out email to alert you when alarm occurs.
- Buzzer alarm: Highlight the icon to enable this function. The buzzer beeps when an alarm occurs.
- > Apply: Save the set parameters of current menu.
- > **Cancel:** Don't save the set parameters of current menu.

## 5.5.4 Storage

## 5.5.4.1 Record

Choose "Menu $\rightarrow$ Setup $\rightarrow$ Storage $\rightarrow$ Recode" in the Menu interface, the Recode interface is displayed, as Figure 5-31 shows.



Figure 5-31

- 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 normal Recording and Motion Detection Recording.
- 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 recording, yellow icon stands for recording triggered by motion.
- Click it to delete a record type from one period.
- > **Default:** Restore parameters of record setup to be default ones.
- Copy: After you 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 interface.

## Drawing schedule record

Choose the channel and the record type "record" or "motion". Draw the schedule line 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. See Figure 5-32.



Figure 5-32

## 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 5-33.

Record Schedule			
Current Set	Week : Sunday		
Schedule 1	00 : 00 - 24 : 00	🖌 Record 🗸 Motion	
Schedule 2	00 : 00 - 00 : 00	✓ Record ✓ Motion	
Schedule 3	00 : 00 - 00 : 00	🗸 Record 🗸 Motion	
Schedule 4	00 : 00 - 00 : 00	🗸 Record 🗸 Motion	
Schedule 5	00 : 00 - 00 : 00	🗸 Record 🗸 Motion	
Schedule 6	00 : 00 - 00 : 00	✓ Record ✓ Motion	
Use to:			
🗸 ALL	🖌 Sun. 🗸 Mon. 🗸	Tue. 🗸 Wed. 🗸 Thu.	
🗸 Fri,	🗸 Sat.		
	Save C	ancel	

Figure 5-33

## 5.5.4.2 Disk

Choose "Menu $\rightarrow$ Setup $\rightarrow$ Storage $\rightarrow$ Disk" in the Menu interface, the Disk interface is displayed, as Figure 5-34 shows.

Camera	Network		Event		System
Record					
Disk	No	State	Total Cananity	Pasidual Consoitu	Device Tune
	2	In use	1953.514 GB	1851.931 GB	SATA
	Warn	ing:XVR will	reboot automatically	after disk formatting	
		Refresh	Format	Cancel	

Figure 5-34

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 "normal"; If do not connect successfully or could not detect hard disk, will displays the warning "Not connected the HDD".

- > HDD No.: The number of HDD that connect the system.
- State: Detect the current working status of HDD, you could use only that displays "normal"; 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 result in the selected HDD recording data loss, confirm that you want to continue?", If confirm to format then click on the "OK" button, otherwise click "Cancel".
- Cancel: Return to the former management interface.

Note: After formatting the HDD, you need to restart the device.

## 5.5.5 System

## 5.5.5.1 General

## 5.5.5.1.1 Device setting

Choose "Menu $\rightarrow$ Setup $\rightarrow$ System $\rightarrow$ General" in the Menu interface, the Device setting interface is displayed, as Figure 5-35 shows.

Camera	Network	Event	Storage	
General				
Display	Device sett	ing Date		
User	V Enable	setup wizard at devi	ce startup	
Auto Maintain	Language	Engl	lish	~
Restore Default	Record mod	e Ove	rwrite	¥]
Manual update	Record days	Noli	imit	Y
Online update	Video stand	ard PAL		-
Channel config	Standby lim	e(min) 10		
Ptz setup	Device name	XVR		
	Defaults	Confirm	Cancel	Apply

Figure 5-35

- > Enable setup Wizard at device start up: Click the " $\sqrt{}$ ", open boot wizards function .
- Language : the default language of the system boot, which is English, but, at present, also supports Chinese, Polish, Czech, Russian, Thai language, Hebrew, Persian, Bulgarian, Arabic, German, French, Portuguese, Turkish, Spanish, Italian, Hungarian, Dutch, Korean.
- Record Mode : Overwrite automatically, ie., XVR will automatically cover the previous record if hard disk is full.
- **Record days:** Reserved.
- **Video Standard :** PAL or NTSC.
- Standby Time: It means standby time of system without operation for XVR. If time exceeds the standby time, then you should re-login in system so as to operate XVR. Default standby time is 30 minutes. And standby time range is: 1 to 120 minutes.
- > **Device name:** Please input a corresponding device name here.
- Default : Restore all specifications or parameters of General setup to be factory default specifications.
- > **Apply:** To save specifications or parameters of common setup.

## 5.5.5.1.2 Date

Choose "Menu $\rightarrow$ Setup $\rightarrow$ System $\rightarrow$ General $\rightarrow$ Date" in the Menu interface, the Date setting interface is displayed, as Figure 5-36 shows.

Camera	Network	Event	Storage	System
General				
Display	Device setting	Date		
User	🞸 Set date/tim	e manually		
Auto Maintain	Date/time	2016 -	11 - 29 17 : 2	4:58
Restore Default	🗸 Receive date	eltime from NTP		
Manual update	NTP Server	time.wind	lows.com	
Online update	Time Zone	GMT+00	00	~
Channel config	NTP Port	123		
Ptz setup	NTP Interval(Min)	10		
	Date Format	Year Mor	nth Day	~
	Date Separator			~
	Time Format	24 hours		~
	Default	Confirm	Cancel	Apply

Figure 5-36

- > Set date/time manually: When checked, manually set the machine time.
- Receive date/time from NTP: When checked, open the update time when NTP function of the school.
- > NTP Server: IP address of NTP server.
- > **Time Zone:** Select the Time Zone of your location from the drop-down menu.
- > **NTP Port:** Port of NTP server.
- NTP Interval: The time interval between the two synchronizing actions with NTP server.
- Date Format: There are three types: YYYYY- MM-DD: MM-DD-YYYYY or D D- MM-YYYY.
- Date Separator: There are three denotations to separate date: dot, beeline and solidus.
- > Time Format: 24-hour and 12-hour clock.
- > Apply: Save parameters of current interface.
- Cancel: Return to the former interface.

## 5.5.5.2 Display

Choose"Menu $\rightarrow$ Setup $\rightarrow$ System $\rightarrow$ Display" in the Menu interface, the Display Setup interface is displayed, could modify the display resolution and channel names, as Figure 5-37 shows.

Camera	Network	Event	Storage	System
General				
Display				
User				
Auto Maintain	Resolution	128	0x1024	~
Restore Default	UI transparer	icy —	•	18
Manual update				
Online update	Show OSI	) time		
Channel config	🖌 🖌 Show cha	nnel name		
Ptz setup	Show after b	oot 9 s	creens	~
	Color correc	ion setup		
	Overlay setu	p		
	Default	s Con	firm Ar	pply

Figure 5-37

- Resolution: It means the resolution of video output of XVR. Optional resolution: 1024×768、1280×720、1280×1024、1920×1080. 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. The value ranges from 0 to 255.
- Show OSD Tim: select the " $\sqrt{}$ " to display time or not when system is playback.
- Show channel name: select the " $\sqrt{}$ " to display channel name or not when system is playback.
- Show after boot: Set the number of screens displayed after entering the system.
- Color correction setup: Set brightness and contrast and other attributes of the XVR.
- Default : Restore all specifications or parameters of Display setup to be factory default specifications.
- > Apply: To save specifications or parameters of common setup.

## 5.5.5.3 User

Choose "Menu $\rightarrow$ Setup $\rightarrow$ System $\rightarrow$ User" in the Menu interface, the User Setup interface is displayed, as Figure 5-38 shows.



Figure 5-38

- User: List added users. "admin" is super user/administrator, and we cannot change its privilege, but only its password. Other general users have no privilege of adding, modifying or deleting.
- Privilege: Privilege list of users. It includes PTZ control, playback, parameter setup, query log, advanced configuration, channel management, query parameter, backup /shut down/ logout.
- Add: To add a new user, which can be only done by super administrator--admin. Click "Add", then enter user name and password, select privilege and save the parameters.
- Edit: To change information of users, which can be only done by super administrator--admin. First, choose a user, click "modify", then enter old password and new password, modify privilege, and finally save the parameters.
- Delete: To delete user, which can be only done by super administrator--admin.
- **Cancel:** Return to former interface.

## 5.5.5.4 Auto Maintain

Choose "Menu $\rightarrow$ Setup $\rightarrow$ System $\rightarrow$ Auto Maintain" in the Menu interface, the Auto Maintain interface is displayed, as Figure 5-39 shows.

Camera	Network	Event	Storage	
General Display User Auto Maintain Restore Defaulf Manual update Online update Channel config Ptz setup	Reboot dev Every wee	rice automstically k ~ ) Wed.	v 3 v hour	3 v min
	Default	Confirm	Cancel	Apply

Figure 5-39

User can themselves set the system to be automatically rebooted. Automatically rebooting system can be set in a fixed time periodically. Click OK to save after finishing the setup or click Cancel otherwise.

## 5.5.5.5 Restore Default

Choose "Menu $\rightarrow$ Setup $\rightarrow$ System $\rightarrow$ Default" in the Menu interface, the Default Setup interface is displayed, as Figure 5-40 shows.



Figure 5-40

According to user selection, you can set the parameters of restore default for "General Settings", "User manage", "Channel configuration", "Record Setup" and "NetWork" and other parameters.

## 5.5.5.6 Manual update

Choose "Menu $\rightarrow$ Setup $\rightarrow$ System $\rightarrow$ Manual update" in the Menu interface, the Upgrade Setup interface is displayed, as Figure 5-41 shows.

Camera	Network	Eve	nt	Storage	
General Display User	No. 0	Na HIMIX3521A_upo	me lateV6.1.40.1.bin	Size 23263.79 KB	Date 2016-11-29
Auto mancan Restore Default Manual opdate Online update Channel config	1	HIMIX3521A_upo	lateV6.1.47.1.bin	23783.79 KE	2016-11-29
P1z setup		Refresh	Upgrade	Cancel	

Figure 5-41

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 update\_XVR.tgz) 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 don't want to upgrade, click cancel to return.

**Note:** 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 takes about 3 to 5 minutes.) Here, we advice you to restore factory Settings after the upgrading.

## 5.5.5.7 Online update

Choose "Menu $\rightarrow$ Setup $\rightarrow$ System $\rightarrow$ Online update" in the Menu interface, the Upgrade Setup interface is displayed, as Figure 5-42 shows.

Camera	Network	Event	Storage	System
General Display User Auto Maintain Restore Default Manual update Online update Channel config Ptz setup	Status: ✓ Auto upda Update time	Current version i te 00:00	€ XVR_HI3521A_4_v6.1.47 ∽	.1 Check
	Confi	rm Ap	oply Cance	

Figure 5-42

- > Check: Click check latest online version.
- > States: The current version of device.
- > Auto update: Enable / disable automatic update.
- > Update time: Set the automatic update time.

## 5.5.5.8 Channel Config

Choose "Menu $\rightarrow$ Setup $\rightarrow$ System $\rightarrow$ Channel Config" in the Menu interface, the Channel Config interface is displayed, configure each channel properties, selected as AHD channel or channel IP camera, modify the restart after the entry into force, as Figure 5-43 shows.

Camera	Network	Event	Storage	
General	СН	AHD	IP	-
	CH1			
Display	CH2			
User	СНЗ			
Auto Maintain	CH4			
Part Part I	СН5			
Restore Default	СН6			
Update	CH7			
Channel config	CH8			
Description	СН9			
Ptz setup	CH10			
	CH11			
	CH12			
	CH13			
	CH14			
	CH15			
	CH16			100
		Confirm	Cancel	

Figure 5-43



[step 2] : Click "Confirm" to validate the configuration after rebooting, and finish the configuration.



• 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 ;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".

## 5.5.5.8 PTZ Setup

Choose "Menu $\rightarrow$ Setup $\rightarrow$ System $\rightarrow$ PTZ Setup" in the Menu interface, the PTZ Setup interface is displayed, as Figure 5-44 shows.

Camera	NetWork	Event	Storage	System
General Display User				
Auto Maintain	Channel Protocol	3 PelcoD	~	
Manual update	Address Baud Rate	0 2400		
Online update Channel config	Data Bit Stop Bit	8	~	
Ptz setup	Check	NONE	~	
	Default C	opy Con	firm Cancel	Apply

Figure 5-44

- Channel: Select the current camera channel. ≻
- ≻ Protocol: Select corresponding PTZ protocol (such as PELCOD).
- ≻ Address: Default address is 1.
- Baud rate: Select corresponding baud rate. Default value is 2400.
- Data bits: Select corresponding data bits. Default value is 8.
- ≻ Stop bits: Select corresponding stop bits. Default value is 1.
- ≻ Check: There are three options: odd/even/none. Default setup is none.
- ⊳ Default: Restore parameters of PTZ Setup to be default ones.
- Copy: After you complete the setup, you can click Copy button to copy  $\triangleright$ current setup to other channel(s).
- **Apply:** Save parameters of current interface. ≻
- Cancel: Return to the former interface.  $\triangleleft$

# 6 WEB Operation

# 6.1 Active X install

To make sure XVR connects to Internet successfully, open IE Browser, input required IP address, the default setting is 192.168.1.88, and then the Active X will be downloaded and installed automatically

**Notice:** 1.For WIN 7, could have problems for backup and recording, if so, please check the Admin setting, procedure as follows:



WIN7-1



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- enable all the options below ActiveX and click OK! Finally, the Active X will be downloaded and installed automatically, please refer to the Figure 6-1.

	Drownt		
	Bur Achivel' controls and plus	-	
-	Administrator approved	10	
	Dicable		
	Enable		
	Promot		1
1013	Script ActiveX controls marked	safe for scripting	-
	🗇 Disable		
0	0. Enable		
	Prompt		
E Dow	nioads		
and a	Automatic promoting for file do	whicads	
	Disable		
	Enable		
100	File download		
	Deathe		
Tabar al	Fact after was parted to broad	Evilore	
i and's di	rectarios you residir this de	CHARACTER ST	
set cust	om settings		
set to:	Medium (default)	*	Reset

Figure 6-1

# 6.2 IE Login

After the plug-in is installed, login interface as below Figure 6-2, entering the user name and password. The default user name is admin, and the password is 12345, click the login then can remote login.

	8	XVR Logi	n	
User N Passw Langu Fei Rei	Name Iord Jage E member Me Login	nglish T M All Channel Reset	0	
	member Me Login	Reset	•	

Figure 6-2

# 6.3 IE Login Interface

After logining the client sucessfully, entering live preview interface and video connection automatically. The interface as below Figure 6-3:



Figure 6-3

**1.System Menu.** Including Live Video Record Setting, Local Setting and Logout.

2.Real-time Monitoring Channel. Open/Close Preview, Local Video and Photograph.

Mark	Specification
CH1-CH16	Preview Channel.
	Open or close corresponding preview channel.
	Click the button, begin recording, the video saves in computer hard disk.
1	Click the button, capture images, the picture saves in computer hard disk.

## 3.Open/Close All Channeles Preview Image

Mark	Specification
0	Open all preview channeles.
×	Close all preview channeles.

**4.display modes to choose.** The left is the preview window in full screen, in this display mode, right-click and select "retreat".

**5.Preview Window Switch.** from left to right are: Single Channel, Four Channel, Six Channel, Eight Channel, Nine Channel, Sixteen Channel.

# 6.4 Basic Setup

# 6.4.1 System

## 6.4.1.1 Common

🕐 Logout	Advance Setup	🗙 Bisic Setup	LiveVideo	<b>1</b>
And the second				System
General Setting	Save			→ General Setting
System Time				Network
Set Manually	2016-11-30 • 19 •	33 🔹 35 👻		
Synchronize with computer time	2016/11/30 19:	32:35		
Synchronize with SNTP server	Mana and a dama caram			
SINTP Server	unevinoow.com			
Time Zone	GMT+00 Dublin, Edinburg	h, London, Li 🔫		
NTP Port	123			
NTP Interval	10	-		
Date Format	Year Month Day			
Date Separator				
Time Format	24 hours			
Default Language	English			
Record Mode	Overwrite			
Video Standard	PAL			Channel
Resolution	1280x1024			
Device Name	XVR			CK Record
Record Days	No Limit			6
Standby Time	10	Minute		Maintain



Figure 6-4, setting up the current system time of device, date, system language, display resolution and other information.

Parameter	Specification
System Time	Set up the system time of device than saving.
Default	Set up the device language, you can change the language
language	as you need.
Record Model	Can be set to automatically overwrite when the hard disk is full.
Device ID	Reserved.
Video Standard	The video standard of device must be same with the IPC.
Resolution	1080P and VGA output resolution of device can be set.
Standby time	Lock time of local time can be set, the time is 1-120 minutes.

# 6.4.1.2 Network

🖞 Logout	Advance Setup	🗙 Basic Setup	LiveVidéo	<b>1</b>
Network				System
Forble DHCP	Save			
IP Address	172,18,195,57			
Netmask	255 255 248.0			
Gataway	172.18.192.2			
TCP Port	5000			
PTSP Port	554			
HTTP Port	80			
Primary DNS	172.18.192.2			
Secondary DNS	202.96.128.86			P2P Configure
Broadcast Address	0.0.0.0			
MAC Address	00:00:18:0C:E5:09			UP/ Volume

Figure 6-5

Figure 6-5, the IP address, Subnet Mask, Gateway, DNS, TCP port, Data port, HTTP port and related parameters of the device can be set by the interface.

Related parameters setting consistent with XVR client; The IP address effects at once after you modify, don't need restart XVR device.

# 6.4.1.3 User

oaxial HD XVR			DXVR			WEB Operat		EB Operation
<u>ل</u> ال	ion.	Advance Set	up 🕺	Basic Sittup	UveVidea	<b>~</b>		
						🔅 System		
User						Georgia Setting		
	Modily Use	M	odity User Group					
	User Name	Group Name	Remark					
1	admin	ədmin	admin					
-			_					
	Add User	Modily User		Jelete User		0.00		

Figure 6-6

Figure 6-6, you can add or delete user, modify the information and rights of user by the interface; Related parameters setting consistent with XVR client.

# 6.4.1.4 SMTP Setup

🕑 Logoul	Advance Setup	🗙 Basic Setup	LiveVideo	1
				System
SMTP Setup	5446			General Setting
SMTP Server Address	smtp.MailServer.com			Network
Port	465			User
User Name	User			-+ SMTP Smup
User Password				Ptp.
Recipient	User@domain.com			PTZ
Sender	User@domain.com			Connel Configuration
Theme	XVR ALERT			DDNS Setup
Accessories				P2P Configure
Encryption Type	SSL			Volume
Sender Time	1	Min		UPNR
E-mail Enable				0.00001
Test E-mail				Cloud Storese

Figure 6-7

Figure 6-7, when alarm message appears, mails can be sent to designated mail address through the setup of this page. The relevant parameters should be set up the same with the XVR port.

# 6.4.1.5 Ftp

Coaxial HD XVR			WEB Ope	eration
O Logout	Advance Setup	🗙 Basic Setup	LiveVideo	<b>`</b>
Ftp Setup	Save			System
Enable				Gameral Setting
Ftp Server	0.0.0.0			Minison K
Port	21			(Usin
User Name				SMTP Setup
Password				+ Fos
Ftp UpLoadFile				PIE
				Channel Configuration
Channel	сна 🔹			DDNS Setup
Week	Wed. · Motion	n Detection		P2P Configure
Schodula1	00 1 00 00 1 00 🔳			Volume
Cabadala 2	00 00 00 00			ophr
Screeole2				ORPOE
Test				Cloud Storing

Figure 6-9

Figure 6-8, you need to download or buy FTP service tool (such as Ser-U FTP SERVER) to establish FTP service, the relevant parameters setup should be the same with the XVR.

# 6.4.1.6 PTZ

🕐 tagaat	Advance	ce Setup	🗙 Basic Setup	LiveVideo	<b>~</b>
077					System
P14					General Setting
Channel	5				Network.
Vender Type	PelcoD				Liet.
					SMTR Setup
Address	0				t in
Baud Rate	2400				-) (TZ
Data Bit	8				Channel Configuration
Stop Bit	1				ODMS Settin
- top on	NONE				PuP Configure
Check	NONE				10.0

Figure 6-9

Figure 6-9, you can set PTZ channel, protocol, address, baud rate, etc. The relevant parameters setup should be the same with the XVR.

# 6.4.1.7 Channel Configuration

D Logour	Ama Ana	oce Settijy	🗙 Basic Setup	LiveVideo	<b>1</b>
Channel	5114	ř.			System
Charmer					Common Setting
CH CH	AHD	IP			
Chi	(2)	-			
CH2	( <b>X</b> )				
CH3	2				
CH4	12)	10			
CH5		×.			
CH6		V			
CH7					
CH8					

#### Figure 6-10

Figure 6-10, configure each channel properties, selected as AHD channel or channel IP camera, modify the restart after the entry into force, the relevant parameters setup should be the same with the XVR.

# 6.4.1.8 DDNS Setup

	Advance Setup	💥 Basic Setup	DiveVideo	<b>1</b>
				System
DDNS Setup	Save			General Setting
DDNS Enable				
DDNS Type	Oray		<b>-</b>	SMTP Setup
DDNS Refresh Time	60	(Input Is More Than 60)	Sec	
DDNS Domain Name				PTZ
DDNS User Name				
DDNS User Password				P2P Configure

Figure 6-11

Figure 6-11, the XVR can be set up remotely via domain name through this interface and the relevant parameters setup should be the same with the XVR port.

# 6.4.1.9 P2P Configure

🕐 Logari	Advance Serup	🗙 Basic Setup	● ④ LiveVideo	3
				System
<pre>     FREEIP </pre>	Sat	•		Common Setting
				Network
State : on any				Liser
				SMIP Setup
and the second se				Hp
9790813906114	Antradian	10 Aug		1772
				Channel Consiguration
				ODMI Seeup
				👄 PRP Configure

Figure 6-9

Figure 6-12, the P2P function of XVR can be enable in this page, the relevant parameters setup should be the same with the XVR.



## 6.4.1.10 Volume



Figure 6-13, through this page you can adjust the volume of local XVR size, the relevant parameters setup should be the same with the XVR.

# 6.4.1.11 UPNP

U Logaut	Advance Set	*		LiveVideo	<b>1</b>
		_			🔅 System
UPNP Setup	Save				Common Setting
Enable					
State	connecting				
Inside IP	1077127404				
Outside IP	1077127424				
Port mapping					
Port mapping	Server Protoco	I Inside Port	Outside Part		
Port mapping	Server Protoco	I Inside Port	Outside Part		
Port mapping	Server Protoco	il Inside Port	Outside Part		
Port mapping	Server Protoco	d: Inside Port	Outside Port		
Port mapping	Sérver Protoco	al Inside Part	Outside Port		
Port mapping	Server Protoco	ıl Inside Port	Outside Port		FTZ. Channe Configuration DNS.Servin P2P Configure Volume DINNE PPOL PPOL Channel

Figure 6-14

Figure 6-14, it allows you to establish the mapping relationship between the LAN and the public network, the relevant parameters setup should be the same with the XVR.

O Legent	Advance Setup	🗙 Basic Setup	LiveVideo	<b>3</b>
				System
PPPOE Setup	Save			
🔲 Enable				
Licer Name				SMTP Setup
ober Hume				
Password				PTZ
IP Address				
Netmask				P2P Configure





Figure 6-15, device connects to the internet via PPPoE after reboot. You can get the IP address in the WAN from the IP address column, the relevant parameters setup should be the same with the XVR.

## 6.4.1.13

oaxial HD XVR			WEB C	Operation
O Logout	Advance Setup	🗙 Basic Setup	LiveVideo	<b>1</b>
	-			System
Cloud Storage	save			General Setting
Start				Network.
Dropbox	Bind			
Caral				SMITP Sepure
L Google	Bind			
Cloud Url				PTE
Code				
Test				P2P Configure
The second second	and a state of a			
Upload File	event_picture			URNE
User Name	Total Capacity Use	d Capacity		Houd Storage
	0.00MB	D.00MB		Channel
				Record
				A

Figure 6-16

Figure 6-16, through this page allows XVR in the alarm, send alarm information to the cloud server storage, he relevant parameters setup should be the same with the XVR.

# 6.4.2 Channel

## 6.4.2.1 Channel Setup

Logovi.	4) Adram		🕺 toostatus	tion to	eVideo	
NO.	IP Address	Port	Device Type	Vender Type	•	System
					•	Chansel
					-	O less:
						oline Senation
	Company of the local division of the local d		Provide Provid		EQ.4	Record
Search	Add		Demonstration sci	eening onvir	1	
treased the equip Channel	IP Address	Port	Device Type	Vender Type		
				_		
_						
Delete	Edit Channel					

#### Figure 6-17

Figure 6-17, you can add or modify channel parameters by channel configuration interface; Click"search", you can search IPC device with Onvif protocol with the same network segment with XVR; Selecting the channel number on configuration interface, click the IPC information you search, the channel

parameters of the interface will change accordingly, the setting channel parameter settings will become effective after you click the "save".

## 6.4.2.2 Encode

The interface of encoding parameters as below Figure 6-18, relevant parameters are same with XVR setting.

O Loopin	49	Advance Setu	ιp	K. Basic Setup	-	LiveVidea	<b>\$</b>
Encode							System
Lincoue	Save						Channel
Channel	1	12					100 Setup
Encode Level	Baseline	-					
	Main str	ream	Sub str	eam			
Encode Mode	Video	-	Video				Record
Encode Type	H264		H264				
Resolution							Maintain
Stream Control	VBR	-	VBR	1.0			
I-Frame Interval	0		o	12			
Quality	Worst		Worst	-			
Frame Rate	0	0	0	0			
Stream Value	0		0				
Refer Bitrate	512-8192		128-2048				

Figure 6-18

You can get parameters of Main-stream and Sub-stream of IPC device of channel access (coding mode, resolution, frame rate, the value of the stream), also can set the value of stream of Main-stream and Sub-stream of IPC device by the interface.

## 6.4.2.3 Motion Detection

Motion detection interface is shown in Figure 6-19, the relevant parameters consistent with XVR-side settings.

🕑 Lonaut	Advance Setup	X Basic Setup	LiveVideo	<b>1</b>
Mation Detection				System
Motion Detection	Save			Channel
Channel	CH1			
Switch Linkage	Sensitivity	Middle -		
Buzzer On	Buzzer Time	1 Sec		
	And the second			-9 Motion Democra
Record Channel	Record Time	60 Sec		ON Record

Figure 6-19

The IPC's Main Stream, Sub Stream parameter can be obtained in this page (Coding mode, Resolution, Frame Rate, Stream Value) the Stream Value can be adjusted as well.

# 6.4.3 Rec Setup

## 6.4.3.1 Common

Rec Setup interface is shown in Figure 6-20.

🕐 Logaut 🦚 Advance-Setup 💥 Basic Setup	LiveVideo 💮
Channel Cust -1 V. Record Motion	System
	Channel
00 07 04 08 08 15 12 16 18 18 20 22 24	Record
sun en	-> Referances
Mon a second secon	Drevisant
Tue 🖉 🖉	🥕 Maintain
🖸 Wed	
🖪 Thu	
E Fri	
n Sat	
Saw	

Figure 6-20

You can set up the channel recording as timetable by the interface, relevant parameters are same with XVR setting.

## 6.4.3.2 Playback

Rec Playback interface is shown in Figure 6-21.

O logost	Advance Setup	🛠 neuc Senap	LiveVideo	<b>1</b>
State-11 Sum Ban The And The Try Shi				System
1 2 3 4 5 16 1 8 9 10 11 12 15 14 15 16 17 18 19 20 21 22 23 24 25 26				Channel
21 28 29 30				Record
100				Record Servic
				= Faynes
				Alintein
The Type Normal Record * Channel Select CH1 *				
Search	-			
Q.Q. 1011 1211 141		0:00 12:00 14:00 19:00		
Window02				
Window04				

Figure 6-21

After determining the date in this interface, videos of associated channels can be checked according to the video types. Relevant parameters should be the same with the XVR port.

# 6.5 Advance Setup

Click Advance Setup, than you can find Disk, Device Manage, Default, Log and Version.
### 6.5.1.1 Disk

You can format the disk (when you use the hard disk to record first time, you need format the disk first), you can find the information of hard disk (Disk Number, State, Total capacity, Residual Capacity and Device Type), as below Figure 6-22.

O more	4)	Advance Setup	🗙 Basic Setua	<b>1</b>	LiveVideo		<b>1</b>
			_			٥	
Disk	Disk Format		•	Channel			
NO.	State	Total Capacity	Residual Capacity Devi	се Туре			
						y	Maintain
						÷	

Figure 6-22

## 6.5.1.2 Device Manage

You can restart and update the device of XVR by remoting, as below Figure 6-23.



Figure 6-23

## 6.5.1.3 Factory reset

You can restore the default parameters of XVR by remoting, the method of setting is same with local setting, as below Figure 6-24.

Coaxial HD XVR		WEB Operation			
🕐 Legalt 🦚 A	dvance Setup 🕺 Basic Getup	😶 LiveVideo 💮			
Factory reset	Save	System			
Encode	Common	Maintain			
Network DDNS Restore default	Display settings     color correction set	Das Device Manage → Dactory mask			
SMTP Setup	User	Logalecy' (Lightwareautors) Wither law!			
UPNP	Channel Configurati PTZ	ation Version Storage			
<ul> <li>Cloud Storage</li> <li>Motion Restore default</li> </ul>	🗖 Poll				
Event	🔲 Image				

Figure 6-24

#### 6.5.1.4 Log query

You can find specific log information by log query.

**Specific steps:** Set up the type and time of the journal you need (as below Figure 6-25, you can recall the calendar to choose the date by clicking the blank frame of start time and begin time), click "query" to query the journal, if there has recordings of journal, it will display on list, you can check all journalese by page up/page down.

O Logout	Advance Setup	🗙 Basic Setus	EiveVidéo	
Log query Type Start Time End Time	AI 20 20	llogs 16/11/30 • 00 • 00 • 00 • 00 16/11/30 • 23 • 59 • 59		System       Ohannel       Image: A second       Maintain       Image: A second
NO. Time	Event	User		Dence Hanage Factory yeah - Sog glany - Alan ananoname - Varies bet - Varies - Varies - Varies - Sogle - Ecception

Figure 6-25

#### 6.5.1.5 Auto Maintenance

Here you can set auto-reboot time; you can select proper setup from dropdown list. As below Figure 6-26.

Figure 6-26

## 6.5.1.6 Video lost

When the video loss of the analog channel of the device is lost, the device makes the corresponding alarm. The video loss interface is shown in Figure 6-27.



Figure 6-27

## 6.5.1.7 Version

User can check the version information of the system, including device name, model number, version number and version date. As below Figure 6-28.

٢	Logout	Advance Setup	🗙 Basic Setur	LiveVideo	2	
	and the second s				•	System
	Version				•	Channel
	Device Name	Networ	k Video Record		EOH	
	Model Number	8-CHAN	NNEL		1	Maintain
	Software Version	XVR_HI	3520DV300_8_v6.1.37.4			
	Date	Sep 12	2016 10:04:24			isclari/reset

Figure 6-28

## 6.5.1.7 Storage

In Storage configuration, the user can set up the save path of video file (preview video file) in computer, remote file download and capture image. as below Figure 6-29.



Figure 6-29

## 6.5.1.8 Exception

As below Figure 6-30, there are two types: HDD/Network, the relevant parameters setup should be the same with the XVR.



Figure 6-30

# 6.6 Logout



# **7** Mobile APP Configuration: FreeIP PRO

# 7.1Installation & Register

 $\label{eq:FreeIP PRO process: register \rightarrow login \rightarrow add \ device \rightarrow service \ application$ 

**Step 1** For your mobile phone, please scan the corresponding QR code as shown in Diagrams ID 7-1, download and install "FreeIP PRO" in your mobile phone.



# i Note

- 1. Mobile client currently supports only iOS and Android.
- 2. iOS user, just search for "FreeIP PRO" in the App Store directly.

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

# 7.2 Add Devices

Step 1 Connect XVR with router through network cable.

**Step 2** Set up the phone network, connect the phone to the wireless network.

**Step 3** Log into the mobile client and select "Device Management" from the sliding sidebar. the sliding sidebar as Diagrams ID 7-2. Click "+" in the upper right corner, then scan the QR code on the device or in the FREEIP interface, as Diagrams ID 7-3.



Diagrams 7-2 sliding sidebar Diagrams 7-3 Scan the QR code to add a device

**Step 4** The phone will automatically recognize the QR code, enter the IPC user name and password, click "Add", then set the camera notes and the camera groups, after clicking "Send", prompt "Add successful" will show up.

## 7.3 Live Preview

**Step 1** Select "Live Preview" from the App toolbar , then come to the real-time preview interface.

**Step 2** Click "+" in the preview window, come to the device list, select the device in the group, then click "Real-time preview " as shown in Diagrams ID 7-4.



Diagrams 7-4 Real-time preview interface

# 8 Appendix

# 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 modifing 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 datas 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 setted can't save video files. If also have the question after restarting, kindly please check whether the hard disk is damaged.

## 8.2 Maintenance

1. When DVR 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 DVR 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.