

Digital Video Recorder (DVR) User Manual



Issue

V4.6

Date

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About This Document:

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Network Security Advice

Required measures to ensure basic network security of equipment:

Modify the factory default password and use a strong password

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

Update firmware

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

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

1. Change your password regularly

Regularly modifying the login credentials ensures that authorized users can log in to the device.

2. Modify the default HTTP and data ports

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

These two ports can be set to any number between 1025 and 65535. Changing the default port reduces the risk of the intruder guessing which port you are using.

3. Use HTTPS/SSL encryption

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

4. Enable IP filtering

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

5. Change the ONVIF password

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

6. Only forward the ports that must be used

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

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

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

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

8. Restrict the permissions of the ordinary account

If your system is serving multiple users, make sure that each user has permission to access only its permissions.

UPnP

When the UPnP protocol is enabled, the router will automatically map the intranet ports.

Functionally, this is user-friendly, but it causes the system to automatically forward the data of the corresponding port, causing the data that should be restricted to be stolen by others.

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

SNMP

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

Multicast

Multicast technology is suitable for the technical means of transmitting video data in multiple video storage devices. There have been no known vulnerabilities involving multicast technology so far, but if you are not using this feature, we recommend that you turn off multicast playback on your network.

12. Check logs

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

Physically protect your device

For the safety of your device, we strongly recommend that you physically protect your device from unauthorized boring operations. We recommend that you place the device in a locked room and place it in a locked cabinet with a locked box.

It is highly recommended that you use PoE to connect IP cameras to DVR.

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

Network isolation between DVR and IP cameras

We recommend isolating your DVR and IP cameras from your computer network. This will protect unauthorized users on your computer network from having access to these devices.

About This Document

Purpose

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

Modify Log

ID	Version	Log	Release Time
1	V 4.0	Initial Release	2017/
2	V 4.1	Add new function	
3	V 4.1.3	Perfect interface, add new models	
4	V 4.1.5	Add reverse playback Open data port 2	20180106
5	V 4.1.6	Add 4 split screens of automatic adjusting main stream or sub stream. Add private protocol access. Support multi-screen playback. Add the schedule recording function by channel setting Increase the allocation of permissions by channel	
	V 4.2	Add boot wizard Add toolbar Add manual recording and instant playback Add multiple clicks to enlarge Add user lockout Remove the upper right corner to display the alarm warning Add the view of the latest alarm information, modify the manual alarm Modify quick navigation content	

		<p>Preview channel and modify network parameter function on IPC side</p> <p>Support for copying to some or all channels</p> <p>Remove the full screen function</p> <p>Add backend backup</p> <p>Add video dual authentication</p> <p>Intelligent motion detection</p> <p>Add the color to distinguish the video type, add the video type search</p> <p>Add sound switch</p> <p>Add instant playback</p> <p>Remove the timeline function</p> <p>Increase intelligence analysis</p> <p>Increase test DDNS function</p> <p>Increase test mail function</p> <p>Modify the time precision to half an hour, remove the recording plan master switch</p> <p>Add hardware information</p> <p>Added video dual authentication and boot wizard configuration function</p> <p>Add alarm log</p> <p>Add interval update profile</p>	
6	V 4.2.1	<p>Add the NTP synchronization interval and add the manual NTP synchronization interval.</p> <p>Add access to thermal imaging cameras and display IPC product models</p> <p>Remove auto hide</p> <p>Add the patrol route and line-scan function</p> <p>Add upgrade IPC, restart IPC, restore factory IPC</p> <p>Increase the selection of main and sub stream backups</p> <p>Add playback button to play video</p> <p>Add UI to display detailed intelligent analysis of IPC</p> <p>Add 802.1x functionality</p>	





		<p>Add SNMP function</p> <p>Add upgrade device features</p> <p>Add the timing restart function</p> <p>Add U disk upgrade display progress bar</p>	
7	V 4.2.4	<p>Increase U-boot and kernel version display</p> <p>Increase P2P status display</p> <p>Increase signal type display</p> <p>Increase POE icon display</p> <p>Increase SSL access IPC, special models support</p> <p>Optimize username and password saving methods</p> <p>Increase batch backup</p> <p>Increase fixed point playback</p> <p>Increase hard disk alarm</p> <p>Optimize the recording expiration time input mode to be editable</p> <p>Add city information for each time zone</p> <p>Add face recognition</p> <p>Add P2P server</p>	
8	V 4.3	<p>Add pattern unlock</p> <p>Add mailbox reset password</p> <p>Add resetting password by security questions</p> <p>Add 1+7 split screen</p> <p>Add channel information display</p> <p>Add 3D dome cameras</p> <p>Remove live video type switch</p> <p>Add RAID</p> <p>Add S.M.A.R.T</p> <p>Add formatting (fat32 and NTFS)</p> <p>Support quick download event video backup</p> <p>Add event video backup</p> <p>pop-up full screen and sending screenshot by email</p> <p>Add IPC intelligent analysis configuration</p>	


		<p>Add manual input automatic logout time</p> <p>Restore factory refinement</p>	
9	V4.4	<p>Support adding POE cameras automatically or manually.</p> <p>Support DVR network provided by 3G/4G modem.</p> <p>Support cloud storage.</p> <p>Add disk detection, disk group and multi channels recording.</p> <p>Support license plate recognition management.</p> <p>Support through RTSP to add cameras.</p> <p>Add thermal imaging and face detection functions.</p> <p>Add alarm of IP address conflict and abnormal internet connection.</p>	
10	V4.5	<p>Add disk capacity calculation</p> <p>Add viewing network traffic</p> <p>Add alarm output function</p> <p>Add ROI</p> <p>Add the function of human body thermometer</p> <p>Add temperature schedule linkage</p> <p>Add smart functions</p> <p>Add smart tracking</p> <p>Add microphone</p> <p>Add the synchronization camera time</p> <p>Add personnel counting</p> <p>Add IO control push message alarm</p> <p>Add the log of alarm events send by Email</p>	202005
11	V4.6	<p>Add disk capacity calculation</p> <p>Add viewing network traffic</p> <p>Add alarm output function</p> <p>Add IO control push message alarm</p> <p>Add the log of alarm events</p> <p>Add ROI</p>	

		<p>Add the function of human body thermometer</p> <p>Add temperature schedule linkage</p> <p>Add smart functions</p> <p>Add smart tracking</p> <p>Add microphone</p> <p>Add the synchronization camera time</p> <p>Increase network packet capture</p> <p>Added advance settings to monitor channel when logout</p> <p>Detailed alarm events and logs</p> <p>Real-time video and playback video add capture function</p>	
12	V4.6.1	<p>Update the pictures of document.</p> <p>Add remarks about special functions</p> <p>Add platform access</p> <p>Add FTP setting</p>	

Symbol Conventions

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

Symbol	Description
 DANGER	It's for warning when a hazard or a hazardous condition is likely to be life-threatening
 WARNING	Alerts you to a medium or low risk hazard that, if not avoided, could result in moderate or minor injury.
 CAUTION	Alerts you to a potentially hazardous situation that, if not avoided, could result in equipment damage, data loss, performance deterioration, or unanticipated results.
 TIP	Provides a tip that may help you solve a problem or save time.

Symbol	Description
 NOTE	Provides additional information to emphasize or supplement important points in the main text.

Safety Instructions

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

Requirements

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

Power Requirement

- Be sure to use the specified manufacturer's model battery, otherwise there is a danger of explosion!
- Be sure to use the battery as required, otherwise there is a danger of the battery catching fire, exploding or burning!
- Only use the same model of battery when replacing the battery!
- Be sure to dispose of the used battery as the instruction of battery!
- Be sure to use the power adapter that meets standard with the device, otherwise the personal injury or equipment damage caused by the user will be borne by the user.

- Use a power supply that meets the SELV (Safety Extra Low Voltage) requirements and supply power according to the rated voltage of IEC60950-1 in accordance with the Limited Power Source. The specific power supply requirements are based on the equipment label.
- Connect the Class I product to the power outlet with a protective ground connection.
- The appliance is coupled to the port unit. Keep it at a proper angle for normal use.

Important Statement

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

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

Contents

Legal Notice	ii
Network Security Advice	iv
About This Document	vii
Purpose.....	vii
Modify Log	vii
Symbol Conventions	xi
Safety Instructions	xiii
Requirements	xiii
Power Requirement	xiii
Important Statement	xiv
Contents	xv
1 Preface.....	1
1.1 Product Description.....	1
1.2 Product Features	1
1.2.1 Cloud Upgrade	1
1.2.2 Real-time Monitoring.....	1
1.2.3 Playback.....	1
1.2.4 User Management	2
1.2.5 Storage Funtion	2
1.2.6 Alarm Function	2
1.2.7 Network Monitoring.....	2
1.2.8 Split Screen	3
1.2.9 Recording Function.....	3
1.2.10 Backup Function	3
1.2.11 External Device Control.....	3
1.2.12 Accessibility.....	3
2 Product Structure	5
2.1 Front Panel	5
2.2 Important Notes.....	6

2.3 About This User Manual	7
2.4 Installation Environment and Precautions	7
3 Install Device.....	9
3.1 Process	9
3.2 Unpacking Inspection.....	10
3.3 Install Hard Disk	11
3.3.1 Install One or Two Hard disks.....	11
3.3.2 Install Four Hard disks	12
4 Basic Operations	14
4.1 Power on the Device.....	14
4.2 Activation.....	15
4.3 Power off the Device	19
4.4 Login to the System.....	19
5 Wizard.....	22
6 Quick Navigation.....	31
6.1 Alarm message	35
6.2 Real Time Video Bar.....	38
6.3 Playback	42
6.3.1 Time Search	45
6.3.2 Picture Grid.....	46
6.3.3 Event Recording.....	48
6.3.4 Backup List	49
7 UI System Setting	51
7.1 Channel Information.....	51
7.2 Main Menu.....	51
7.3 Channel Management.....	52
7.3.1 Camera	52
7.3.1.1 Add Camera Automatically.....	52
7.3.1.2 Add Camera Manually	53
7.3.1.3 Delete Camera.....	55
7.3.1.4 Operate Camera	55
7.3.1.5 Protocol Management	56

7.3.2 Encode Parameter.....	57
7.3.3 Sensor Setting	58
7.3.4 OSD Settings.....	60
7.3.5 Privacy Zone	61
7.3.6 Channel Type	62
7.3.7 ROI.....	62
7.3.8 Microphone.....	64
7.3.9 Human Thermometer (Only for Some Models).....	66
7.3.9.1 Parameter Configuration	66
7.3.9.2 Thermal Mapping.....	74
7.3.9.3 Thermal Calibration	76
7.3.10 Smart (Only for Some Models).....	77
7.3.10.1 AI Multiobject.....	77
7.3.10.2 License Plate Recognition (Only for Some Models).....	80
7.3.10.3 Face Detection	82
7.3.11 Intelligent Tracking (Only for Some Model).....	86
7.4 Record Setting.....	88
7.4.1 Record Schedule	88
7.4.2 Disk.....	89
7.4.3 Storage Mode	90
7.4.4 S.M.A.R.T.....	91
7.4.5 Disk Detection.....	92
7.4.6 Disk Calculation.....	93
7.4.7 FTP.....	95
7.5 Alarm Management.....	96
7.5.1 General.....	96
7.5.1.1 General.....	96
7.5.1.2 IO control push	97
7.5.2 Motion Detection	97
7.5.3 Camera Tamper	99
7.5.4 Video Loss.....	100
7.5.5 Intelligent Analysis.....	102

7.5.6 Alarm In (Only for Some Models)	103
7.5.7 Abnormal Alarm	105
7.5.8 Alarm Out	106
7.5.8.1 Alarm Out	106
7.5.8.2 Camera Alarm out	106
7.6 Network Management	109
7.6.1 Network	109
7.6.1.1 IP	110
7.6.1.2 Port	110
7.6.2 802.1 X	111
7.6.3 DDNS	112
7.6.4 Port Mapping	113
7.6.5 Port Mapping	114
7.6.6 Email	115
7.6.7 P2P	116
7.6.8 IP Filter	117
7.6.9 SNMP	119
7.6.10 3G/4G	120
7.6.11 PPPOE	122
7.6.12 Network Traffic	122
7.6.13 Platform Access	123
7.7 System Management	125
7.7.1 Information	126
7.7.2 General	129
7.7.2.1 System	129
7.7.2.2 Date and Time	130
7.7.2.3 Time Zone	131
7.7.2.4 DST	131
7.7.2.5 Sync Camera Time	132
7.7.3 User	133
7.7.3.1 User	133
7.7.3.2 Advance Setting	136

7.7.3.3 App Verification	136
7.7.4 Security Center	137
7.7.4.1 Password	137
7.7.4.2 Pattern Unlock	138
7.7.4.3 Secure Email	140
7.7.4.4 Secure Question	140
7.7.5 Layout	141
7.7.5.1 Layout	141
7.7.5.2 CVBS Offset	143
7.7.6 Logs	144
7.7.6.1 System Log	144
7.7.6.2 Event Log.....	145
7.7.7 Maintenance	146
7.7.8 Auto Reboot	148
8 WEB Quick Start	149
8.1 Activation.....	149
8.2 Login and Logout	150
8.3 Browsing Videos	154
8.3.1 Browsing Real-Time Videos	154
8.3.2 Live Video.....	156
8.3.3 Channel Operation	157
8.3.4 PTZ Control and Setting	158
8.3.5 Sensor Setting	160
8.3.6 Layout	162
8.4 Playback	163
8.4.1 Video Playback.....	163
8.5 Alarm Search.....	165
9 System Setting.....	167
9.1 Channel	167
9.1.1 Camera	167
9.1.1.1 Camera.....	167
9.1.1.2 Protocol Management	169

9.1.2 Encode	170
9.1.3 Sensor Setting	171
9.1.4 OSD	172
9.1.5 Privacy Zone	173
9.1.6 ROI.....	174
9.1.7 Microphone	175
9.1.8 Human Thermometer	175
9.1.9 Smart	176
9.1.10 Channel Type	177
9.1.11 Intelligent Tracking	178
9.2 Record	178
9.2.1 Record Schedule	178
9.2.2 Disk.....	179
9.2.3 Storage Mode	180
9.2.4 S.M.A.R.T.....	180
9.2.5 Disk Calculation.....	181
9.2.6 FTP.....	182
9.3 Alarm	182
9.3.1 General.....	182
9.3.1.1 General.....	182
9.3.1.2 IO Control Push	183
9.3.2 Motion Detection	184
9.3.3 Camera Tamper	186
9.3.4 Video Loss.....	187
9.3.5 Intelligent Analysis.....	187
9.3.6 Alarm In	188
9.3.7 Abnormal Alarm.....	189
9.3.8 Alarm out	189
9.4 Network.....	190
9.4.1 Network.....	190
9.4.2 DDNS.....	191
9.4.3 Email.....	192

9.4.4 Port Mapping.....	193
9.4.5 P2P	194
9.4.6 IP Filter	194
9.4.7 802.1X.....	196
9.4.8 SNMP.....	196
9.4.9 Web Mode	197
9.4.10 3G/4G.....	198
9.4.11 PPPOE.....	198
9.4.12 Platform Access.....	199
9.5 System.....	199
9.5.1 Device Information	200
9.5.2 General	200
9.5.3 User.....	203
9.5.3.1 Add User	203
9.5.3.2 Adv.Setting.....	205
9.5.3.3 App Verification	205
9.5.4 Security Center.....	206
9.5.4.1 Password	206
9.5.4.2 Secure Email	206
9.5.4.3 Secure Question	207
9.5.5 Logs	207
9.5.5.1 System Logs.....	207
9.5.5.2 Event Log.....	208
9.5.6 Maintenance.....	209
9.5.7 Auto Reboot	210
9.6 Local.....	210
10 Disk Compatibility.....	212

1 Preface

1.1 Product Description

This product is a high-performance DVR device. The product has multiple functions: preview, split view, real-time video storage, mouse quick operation, remote management and control. This product supports three storage methods: central storage, front-end storage, and client storage. The front-end monitoring point can be located anywhere in the network without geographical restrictions. It is combined with other front-end devices such as network cameras, network construction of video server, and professional video surveillance systems to form a powerful security monitoring network. In the networked deployment system of this product, the central point and the monitoring point need only one network cable to connect. There is no need to connect video and audio cables. The operation is simple, and the cost of wiring and maintenance cost is low.

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

1.2 Product Features

1.2.1 Cloud Upgrade

For devices that have access to the public network, you can update the software of online.

1.2.2 Real-time Monitoring

It has a VGA (Video Graphics Array) port and an HDMI (High Definition Media Interface) port. It can realize monitoring function through monitor and display, and support VGA and HDMI output at the same time.

1.2.3 Playback

Each channel can record video independently in real time and perform functions such as retrieval, playback, network monitoring, video query and download. For more details, please refer to chapter Playback

Multiple playback modes: slow release, fast release, reverse playback, and frame-by-frame playback.

The exact time of events can be displayed when playing back the video.

You can select any area of the screen to partially zoom in.

1.2.4 User Management

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

1.2.5 Storage Function

According to the user's configuration and policies (alarm or time settings), the corresponding audio and video data transmitted by the remote device is stored in the DVR device. For details, please refer to chapter Storage Management.

Users can record by WEB mode as needed. The video files are stored on the computer where the client is located. Please refer to chapter Storage.

1.2.6 Alarm Function

Real-time response to external alarm input, correct processing according to the user's preset linkage settings and giving corresponding prompts.

The setting options of the central alarm receiving server are provided, so that the alarm information can be actively and remotely notified, and the alarm input can come from various external devices connected.

The alarm information can be notified to the user by mail or APP.

1.2.7 Network Monitoring

Through the network, the audio and video data of the IP camera or NVS (Network Video Server) of the DVR device is transmitted to the network terminal for decompression and reproduction.

The device supports 8 simultaneous online users to perform streaming operations.

The audio and video data is transmitted using protocols such as HTTP (Hyper Text Transfer Protocol), TCP (Transmission Control Protocol), UDF (User Datagram Protocol), MULTICAST, RTP (Real-time Transport Protocol), and RTCP (Real Time Streaming Protocol).

Use SNMP (Simple Network Management Protocol) for some alarm data or information
Support WEB mode access system, applied to WAN, LAN environment.

1.2.8 Split Screen

Image compression and digitization are used to compress several images in the same scale and display them on the display of a monitor. 1/4/8/9/16/32 screen splitting is supported during preview; 1/4/9/16 screen splitting is supported during playback.

1.2.9 Recording Function

The device supports regular recording, motion detection recording, alarm recording, and intelligent recording. The recording file is placed on the hard disk device, USB (Universal Serial Bus) device, and client PC (personal computer). It can be connected to the WEB terminal, USB device, or local device. Query and play back the stored video files.

1.2.10 Backup Function

Support USB2.0 and eSATA video backup.

1.2.11 External Device Control

The peripheral control function is supported, and the control protocol and connection interface of each peripheral can set as you need.

Support transparent data transmission of multiple interfaces, such as: RS232, RS485.

1.2.12 Accessibility

Supports video NTSL (Nation Television Standards Committee) system and PAL (Phase Alteration Line) system.

Supports system resource information and real-time display of running status.

Supports for logging recording.

Supports local GUI (Graphical User Interface) output and quick menu operation via mouse.

Supports playback of audio and video from remote IPC or NVS devices.



NOTE

For other functions, please see the following text.

2 Product Structure

2.1 Front Panel

Figure 2-1 One disk/two disks model

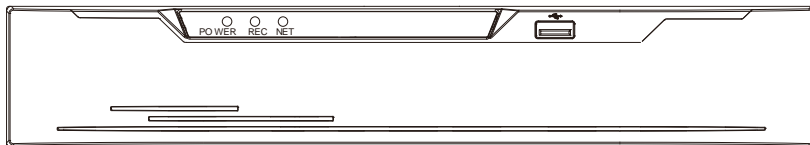


Table 2-1 Front panel function

Port	Description
PWR	When the DVR is operating, the PWR indicator is steady on. When the DVR is shut down, the PWR indicator is turned off.
HDD	Hard disk status indicator. This indicator flashes when data is transmitted.
PoE	PoE network status indicator. This indicator flashes when data is transmitted.
KB/MOUSE	Only connected to U disk.

Figure 2-2 Rear panel

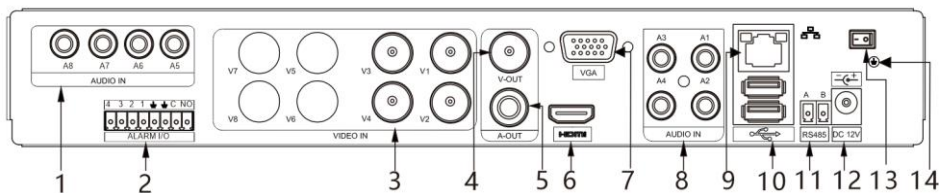




Table 2-2 Rear panel function

No.	Port	Description
1	AUDIO IN	Audio input, such as microphone.

2	ALARM I/O	Alarm input and alarm output.
3	VIDEO IN	Analog video signal access.
4	CVBS	CVBS output.
5	A-OUT	Audio output.
6	VGA	Video output interface.
7	HDMI	
8	AUDIO IN	Audio input, such as microphone.
9	LAN	RJ 45 10/100/1000 Mbps adaptive Ethernet interface
10	USB 3.0	Can be connected to USB device, such as mouse, keyboard. the bottom port only support U disk, the upper and front panel USB port cannot be used as the same time.
11	RS485	Standard RS485 serial communication interface of the device.
12	DC 12	DC Power 12 V.
13		Power switch (some models do not have switch).
14		Safe ground screw of the device.

2.2 Important Notes

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

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

Read the user manual carefully before installing and using this product.

- Use Monitoring dedicated hard disks as the storage devices of the DVR with high stability and competitive price/performance ratios (the quality of hard disks sold on markets varies greatly with different brands and models).
- Do not open the enclosure of this product unless performed by a professional person to avoid damage and electric shock.

- We are not liable for any video data loss caused by improper installation, configuration, operation, and hard disk errors.
- All images in the document are for reference only, please subject to the actual products.

2.3 About This User Manual

Please note the following points before using this user manual:

- This user manual is intended for persons who operate and use the DVR.
- The information in this user manual applies to the full series DVR, DVR as an example for description.
- Read this user manual carefully before using the DVR and follow the methods described in this manual when using the DVR.
- If you have any doubts when using the DVR, contact your product seller.
- As our products are subject to continuous improvement, we reserve the right to modify product manual, without notice and without incurring any obligation.

2.4 Installation Environment and Precautions

Installation environment

Table 2-3 defines the installation environment of the DVR.

Table 2-3 Installation environment

Item	Description
Electromagnetism	The DVR meets the national standards for electromagnetic radiation. It will not cause harm to humans.
Temperature	-10°C to +45°C
Humidity	20% to 80%
Atmospheric pressure	86 Kpa to 106 Kpa
Power supply	DC 12V, 2A / DC 12V, DC220V, the current should not to be less than 3A, please refer to actual product.
Power consumption	<15W (not including the hard disk)

Installation precautions

Note the following points when installing and operating the DVR:

- The power adapter of the DVR uses $DC48V \pm 20\%$ input. Do not use the DVR when voltage is too high or too low.
- Install the DVR horizontally.
- Avoid direct sunlight on the DVR and keep it away from any heat sources and hot environments.
- Connect the DVR to other devices correctly during installation.
- The DVR is not configured with any hard disk upon delivery. Install one or more hard disks when using the DVR for the first time.

lease choose high-quality hard drives to enable stable and reliable operation of the DVR. For more details, please refer to chapter 10 Disk Compatibility

Other precautions

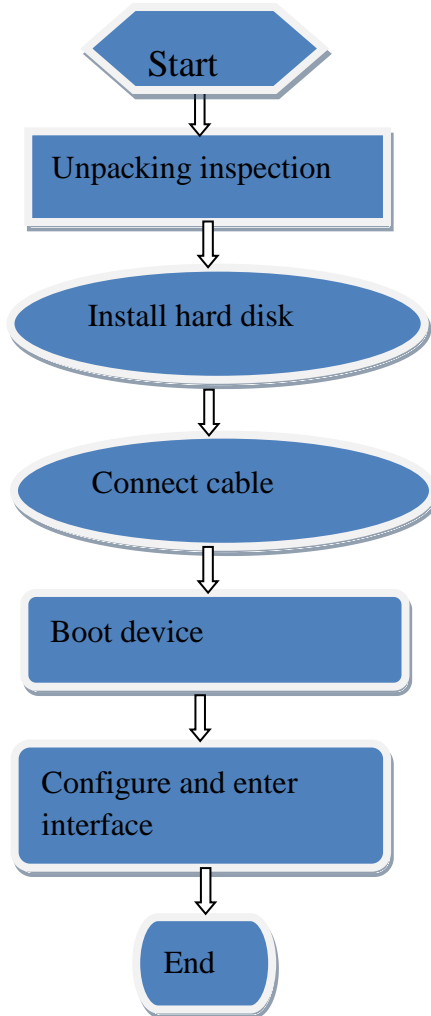
- Clean the DVR with a piece of soft and dry cloth. Do not use chemical solvents.
- Do not place objects on the DVR.

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

Series of DVR

3 Install Device

3.1 Process




- Step 1 Check the appearance, packaging, and label of the device to make sure there is no damage.
- Step 2 Install the hard disk and fix it to the device bracket.
- Step 3 Connect the device cable.
- Step 4 After ensuring that the device is connecting correct, connected the power and turn on the device.
- Step 5 Configure the initial parameters of the device. The boot wizard contains network configuration, add cameras, and manage disks. For details, please refer to the chapter of Wizard .


3.2 Unpacking Inspection

When you receive the video recorder, please check it against the following table.

Should you have any issues, please don't hesitate to contact our after-sales support.

Table 3-1 Unpacking inspection

No	Item		Check content
1	Overall packaging	Appearance	Is there any obvious damage
		Package	Is there accidental impact
		Accessories	Is it complete
2	Label	Label of device	<p>Is the equipment model consistent with the order contract?</p> <p>Whether the label is torn</p> <p> NOTE</p> <p>Do not tear or discard, otherwise warranty service is not guaranteed. When you call the company for sales personnel calls, you need to provide the serial number of the product on the label.</p>
3	Cabinet	Package	Is there any obvious damage
		Data cable, power	Is the connection loose?

		cable, fan power supply, and motherboard	 NOTE If it is loose, please contact the company's after-sales personnel.
--	--	--	--

3.3 Install Hard Disk

Please use the recommended hard disk model. For more details, see *10 Disk Compatibility*.

It is not recommended to use a PC dedicated hard disk.



CAUTION

When replacing the hard disk, please turn off the power and then open the device to replace the hard disk.

Please use the monitoring dedicated SATA hard disk recommended by the hard disk manufacturer.

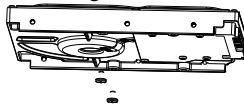
Choose the hard disk capacity according to the recording requirements.

3.3.1 Install One or Two Hard disks

Step 1 Remove the screws for fixing the upper cover and take down the cover.

Step 2 Take out the screws and silicone cushion, pass the screws through the silicone cushion, and secure it to the screw holes, as show in Figure 3-1..

Figure 3-1 Installing the hard disk screws



Step 3 Pass the screws through the holes on the base and put the hard disk in place, as shown in Figure 3-2.

Figure 3-2 Install hard disk



Step 4 Turn the device over, and fasten the fixing the rest 2 screws, as shown in Figure 3-3.

Figure 3-3 Install hard disk



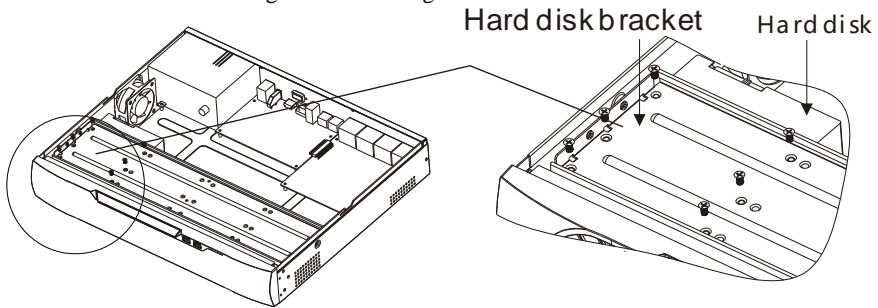
Step 5 Insert the hard disk data cable and power cable, then replace the upper cover and fasten the fixing screws.

3.3.2 Install Four Hard disks

Step 1 Remove the top cover by loosening the screws..

Step 2 Put the hard disk under the hard disk bracket, hold the hard disk with one hand and aim the hard disk hole at the bracket hole, and then tighten the screws to fix (first install the hard disk near the fan), as shown in Figure 3-4.

Figure 3-4 Installing the hard disks



Step 3 Install other hard disks following step 2.

Step 4 Insert the hard disk data cable and power cable, then replace the upper cover and tighten the fixing screws.

4 Basic Operations

4.1 Power on the Device

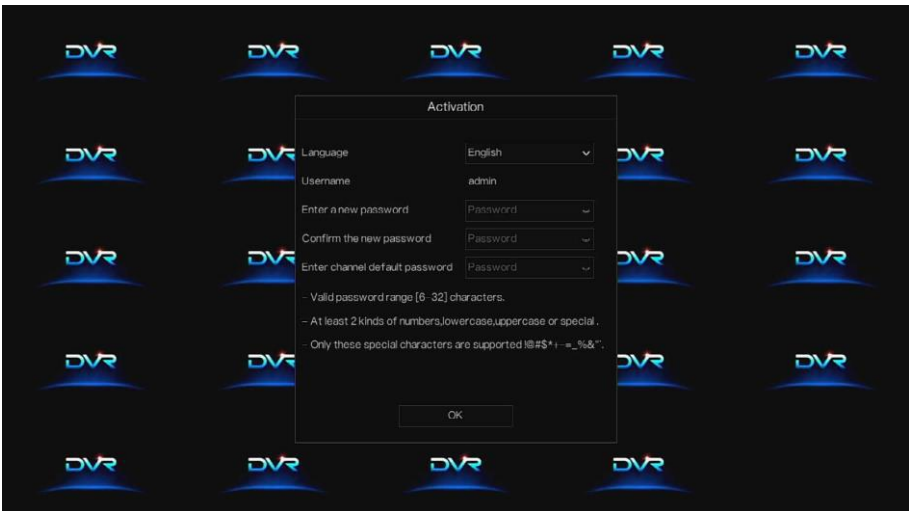


CAUTION

- Ensure that the DVR is correctly connected to a power supply, and a display is correctly connected to the high definition multimedia interface (HDMI) or video graphics array (VGA) port of the DVR before powering-on.
- In some cases, abnormal power supply may affect the normal operation of the DVR or even cause damage. It is recommended to use a regulated power supply to power up the DVR in such environments.

After connecting the DVR to a power supply, the power indicator is always on. Start the DVR. The real-time video screen is displaying, as shown in Figure 4-1.

Figure 4-1 Real-time video screen



 **NOTE**

Users need to provide a hard disk for the DVR. The hard disk is strictly detected during device startup.

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

The hard disk is new and is not formatted. Login to the system and format the hard disk.

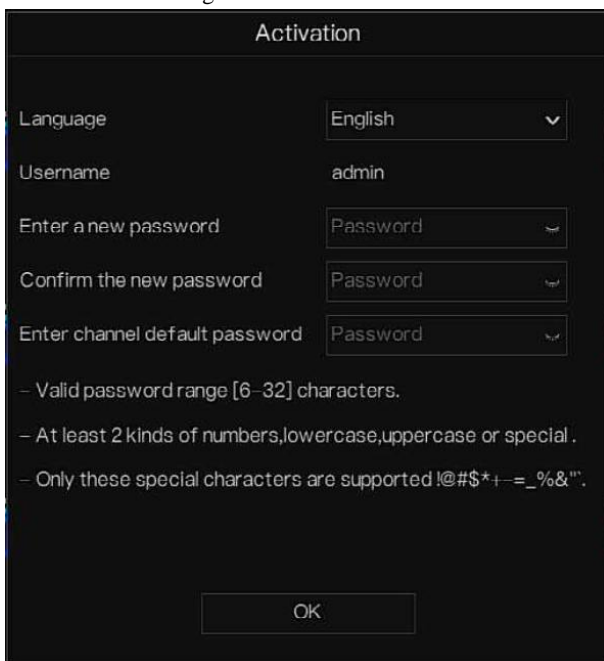
The hard disk is formatted, but the file system is inconsistent with the file system supported by the DVR. Format the hard disk.

The hard disk is damaged.

4.2 Activation

When login the device at first time, or reset the DVR, you need to activate the device and set login and channel default password, as shown in Figure 4-2.

Figure 4-2 Activation



Activation

Language: English

Username: admin

Enter a new password: Password

Confirm the new password: Password

Enter channel default password: Password

- Valid password range [6-32] characters.
- At least 2 kinds of numbers, lowercase, uppercase or special.
- Only these special characters are supported !@#\$*+ = _ % & \".

OK

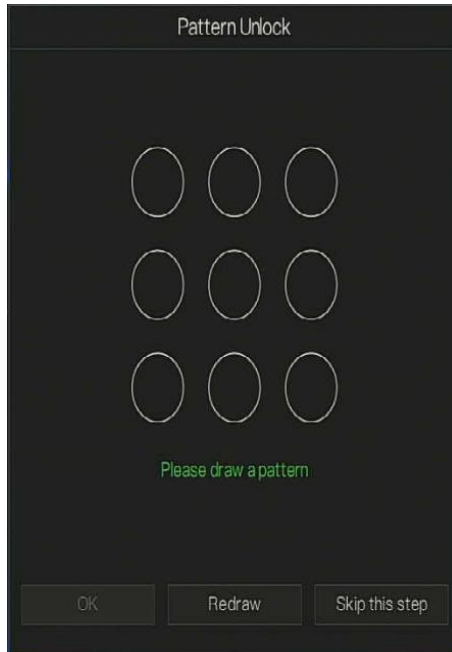
Table 4-1 Description of activation

Name	Description
Username	The default username is admin, and “admin” is super administrator.
Password	Valid password must be 6-32 characters long.

Confirm password	At least 2 kinds of numbers, lower case, upper case or special characters contained. Only these special characters are supported !@#*\$%+ -=_ %&'”
Channel password	The DVR channel connection password is the camera login password.

Users can set the pattern unlock to login the device, as shown in Figure 4-3.

Figure 4-3 Set pattern unlock



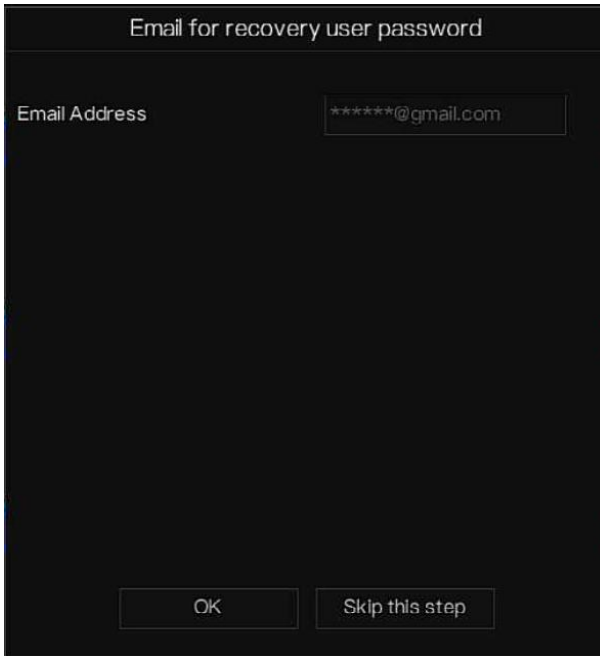
 **NOTE**

After setting pattern unlock, the system default login will be pattern unlock login. If pattern unlock is not set, you need enter the password to log in.

If you don't need to set the pattern to unlock, click "**Skip this step**".

Allow the Mailbox to receive verification code. The password will be reset when you forget it, as shown in Figure 4-4.

Figure 4-4 Set Email



Email for recovery user password

Email Address *****@gmail.com

OK Skip this step

 **NOTE**

Set the email address, if you forget the password, you can receive the verification, and reset the password.

If the email address is not set, you can reply to the secure question or send the QR code to the seller to get the temporary password to login to the device.

If you don't need to set the email, click "**Skip this step**".

Set the secure question, if user forgot the password can through the secure questions to create new password to login the device.

Figure 4-5 Set question

Question (Recovery the password)

Question one	The brand and model of. ▾
Question one answer	123
Question two	Your favorite team ▾
Question two answer	123
Question three	Your favorite city ▾
Question three answer	123

– Please enter at least 1 characters for the answer
– Please enter up to 32 characters for the answer

OK Skip this step

 **NOTE**

The users can set three questions, and if they forget the password, they can answer the question and enter the reset password interface.

Question 1 can be set: Your favorite animal

Company name of your first job

The name of the first boy/girl you like

The worst security question you have ever seen

The most funning/worst design you have ever seen

Question 2: Your favorite team

Question 3: Your favorite city

The three question options cannot be set to the same.

The answer requires a minimum of four characters and a maximum of 32 characters.

If you do not want to set a password question, you can click **Skip this step**.

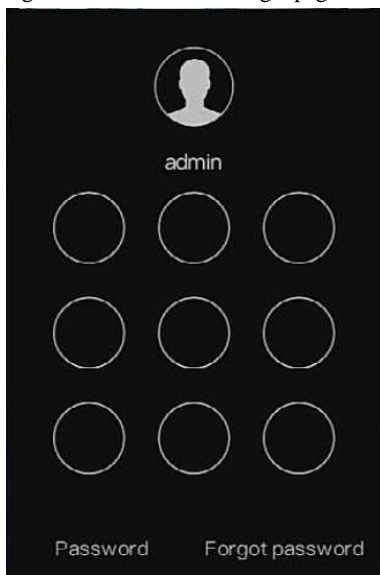
4.3 Power off the Device

Click the main menu and choose **System > Maintenance**, the maintenance setting page is displaying, click **Shutdown** to power off the DVR. If there is a power switch on the rear panel of the DVR, you can turn off the power switch to disconnect the DVR from the power supply.

4.4 Login to the System

Step 1 Login to the device, there are two modes to login if you set the pattern unlock, as shown in Figure 4-6.

Figure 4-6 Pattern unlock login page



Step 2 On the DVR login page, click “Password” to at pattern unlock interface. If users don’t set the pattern unlock it will show password to login interface directly, select the language, as shown in Figure 4-7.

Figure 4-7 Password login page



Step 3 Input the username and password.

 **NOTE**

The password incorrect more than 3 times, please login again after 5 minutes. You can also power off, and power on to start on the device, input the correct password to avoid waiting five minutes.

If user forget password, click Forgot password. Users can choose a way to create new password:

1. Scan the QR code and send the QR code to your seller, seller send the verification code to user and set a new password to login .
2. Answer the secure question to create a new password.

Step 4 Click Login to access the main User Interface (UI).

Step 5 Modify the default password, as shown in Figure 4-8

Figure 4-8 Modify default password

Modify default password

New password

Confirm password

- Valid password range [6-32] characters.
- At least 2 kinds of numbers, lowercase, uppercase or special character contained.
- Only special characters are supported !@#\$%^+*=&_

Figure 4-9 Main menu



----End

5 Wizard

Login the DVR, the wizard is showing on live video, click **Start Wizard**, the pop-up window will show as Figure 5-1.

Figure 5-1 Wizard

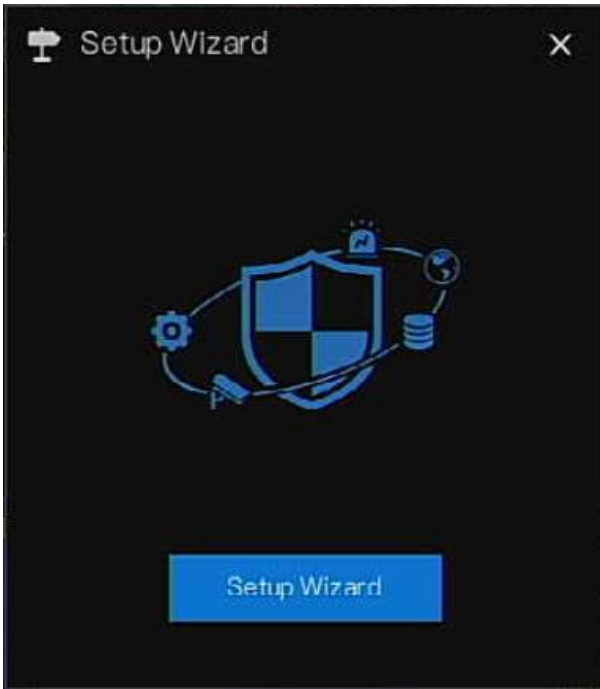
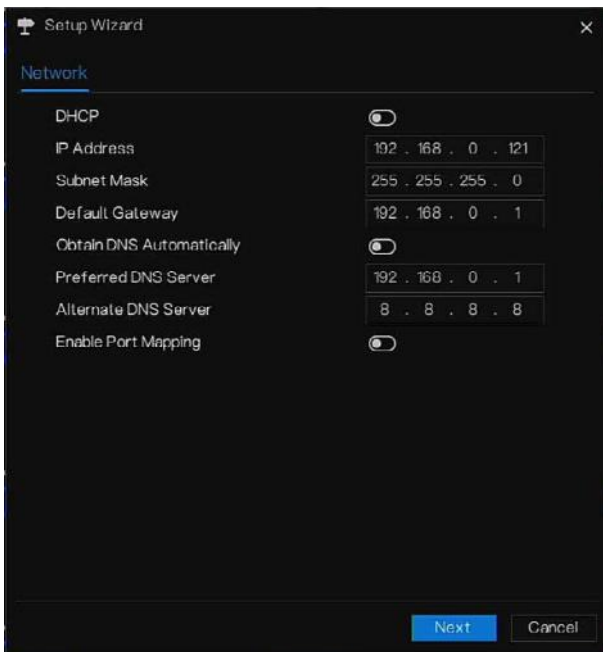


Figure 5-2 Wizard of network



Step 1 Set parameters, for more details please refer to Table 5-1.

Table 5-1 Network parameter

Parameter	Description	Configuration
DHCP	Enable DHCP, the device will obtain the IP address from the DHCP server.	[Setting method] Enable
IP Address	Set the IP of device when DHCP is disabled	[Setting method] Manual
Subnet mask	Set the subnet mask of device	[Setting method] Manual [Default value] 255.255.255.0
Default Gateway	If the user wants to access device,	[Setting method]

Parameter	Description	Configuration
	he must set that	Manual [Default value] 192.168.0.1
Obtain DNS automatically	N/A	[Setting method] Enable
Preferred DNS Server	N/A	[Setting method] Manual [Default value] 192.168.0.1
Alternate DNS Server	N/A	[Setting method] Manual [Default value] 192.168.0.1
Enable Port Mapping	Auto: Obtain HTTP port, HTTPS port, RTSP port and Control Port. Manual: Set the port manually.	[Setting method] Choose type from drop-down list [Default value] Auto
HTTP Port	N/A	[Setting method] When UPnP is manual, you need to set these.
HTTPS Port	N/A	
RTSP	N/A	
Control Port	N/A	


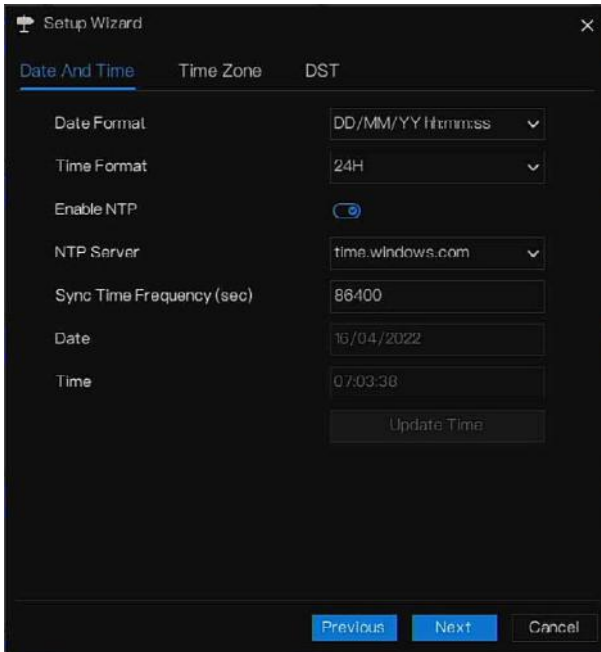

Step 2 Click  to view the basic information about device, as shown in Figure 5-3.

Figure 5-3 Wizard of date and time



Choose date format and time format from drop-down list.

Click  to synchronize time from network.

Disable the NTP-Sync, set time manually.

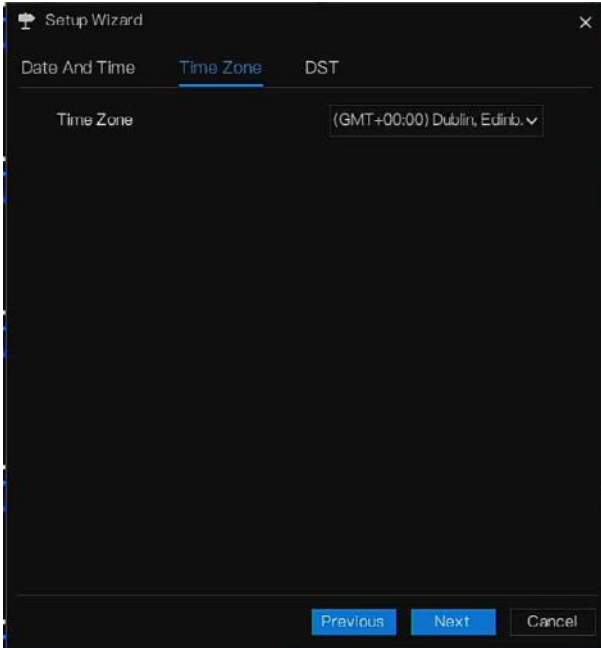
Roll the mouse to choose year, month and day when clicking the date.

Roll the mouse to choose hour, minute and second when clicking the date.

Click **Modify Time** to save the time.

Step 3 Click **Time Zone**, choose the current time zone from drop-down list, as shown in Figure 5-4.

Figure 5-4 Wizard of time zone



Step 4 Click **DST**, enable the DST, set start and end time. Select offset time from drop-down list.

Step 5 Click **Next** to add cameras, as shown in Figure 5-5.

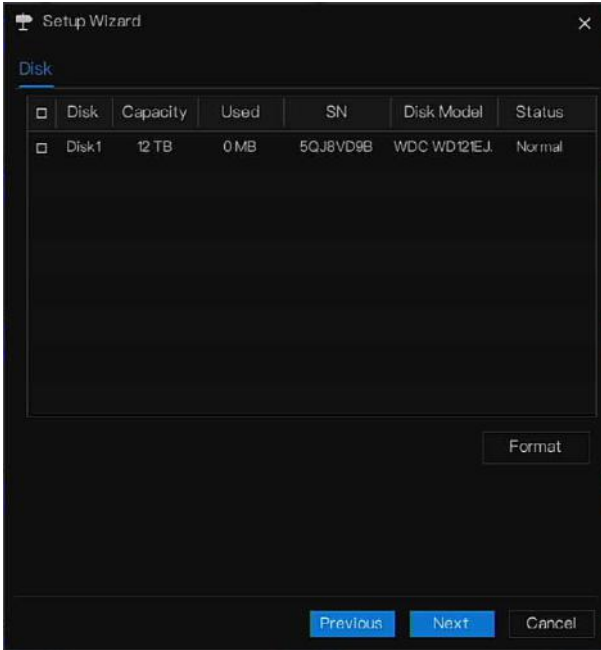
Figure 5-5 Wizard of adding camera



For more details of adding camera please refer to *chapter 7.3*.

Step 6 Click **Next** to enter wizard of disk, as shown in Figure 5-6.

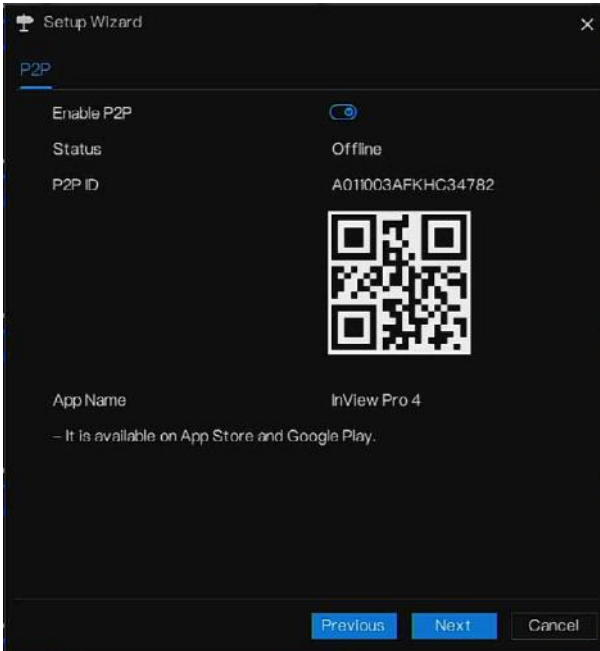
Figure 5-6 Wizard of disk



You can view the general information of disk. You can also format the disk.

Step 7 Click **Next** to enter wizard of P2P, as shown in Figure 5-7

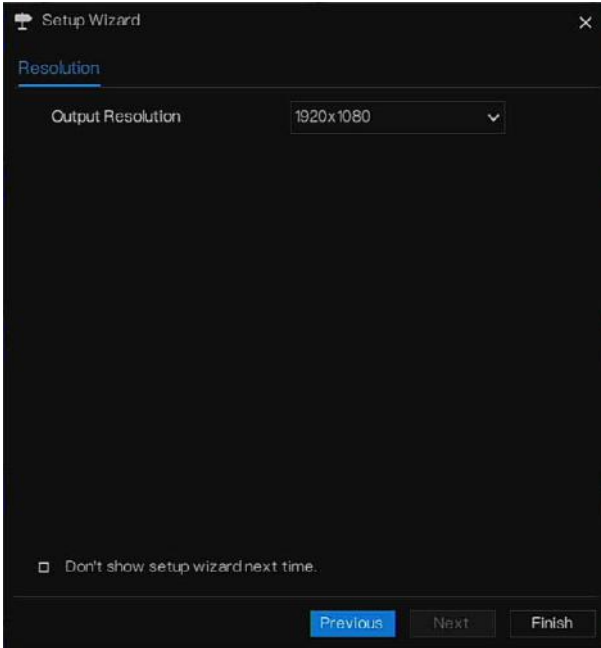
Figure 5-7 P2P



Step 8 Enable the P2P, users can use mobile devices to manage the DVR by scanning the P2P ID, if the mobile phone has loaded the InView Pro 4 (search the APP at App Store or Google Play).

Step 9 Click **Next** to enter the wizard of resolution , as shown in Figure 5-8. Choose resolution from drop-down list.

Figure 5-8 Wizard of resolution



Step 10 Click **Finish** to end the wizard, tick the **Not show this window next time**, wizard would not show at next time. Reopen wizard at **System >User Account > Adv. Setting**.

6 Quick Navigation

The DVR operation interface appears. Move the cursor to the bottom of the screen to display the DVR's floating menu.


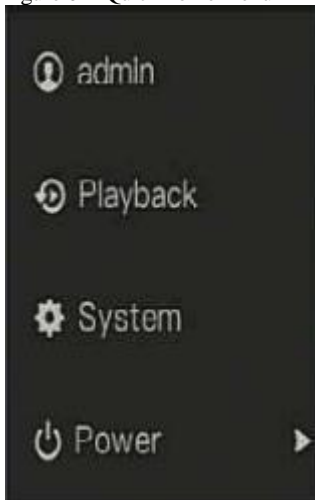
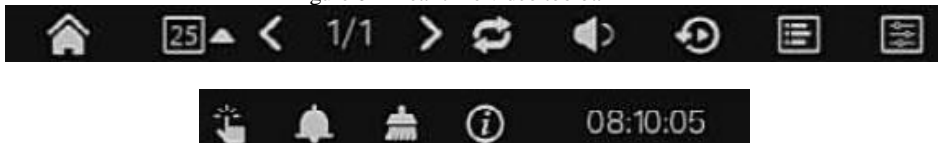
Click  in the left of DVR floating menu bar. The quick home menu is showing. The quick home menu provides **Playback, System and Power (Shutdown, Reboot and Logout)** as shown in Figure 6-1.

Figure 6-1 Quick home menu



In the middle of DVR floating menu bar, the video tool bar provides **Split screen, switch page, Auto Sequence, Volume, Playback, Channel Information, and Live View Strategy** as shown in Figure 6-2.

Figure 6-2 Real-time video toolbar



The real-time video toolbar is described as follows:



Layout. Users can choose layout and add new layout strategies as shown


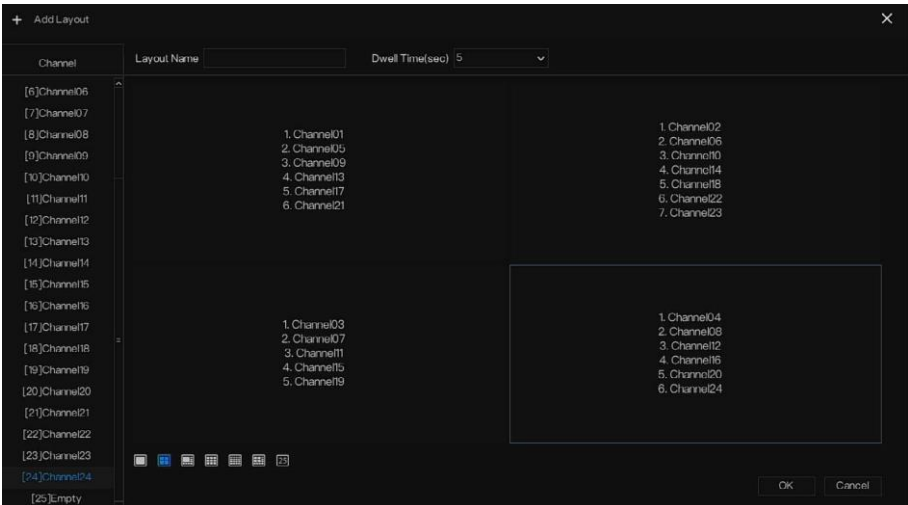
in Figure 6-3. Click  on the right of screen splitting format and choose the channels to view the video.

Figure 6-3 Add layout



Input the layout name, choose the dwell time, and choose the splitting format. Choose one channel or many channels to add on screen.

Quick Navigation



: Auto Sequence. Click on the icon, the layout dwell on screen is enabled, for how to set the dwell on, please refer to *chapter 7.7.5*.



: Audio. Click on the icon, the audio setting screen is displaying, which you can choose the channel and adjust the volume.



: Channel information, tick the channel or encode, the live video will show the channel information.



: Live view strategy, users can depend on the network to switch the strategy, there are three modes, such as fluency, balanced and real-time.

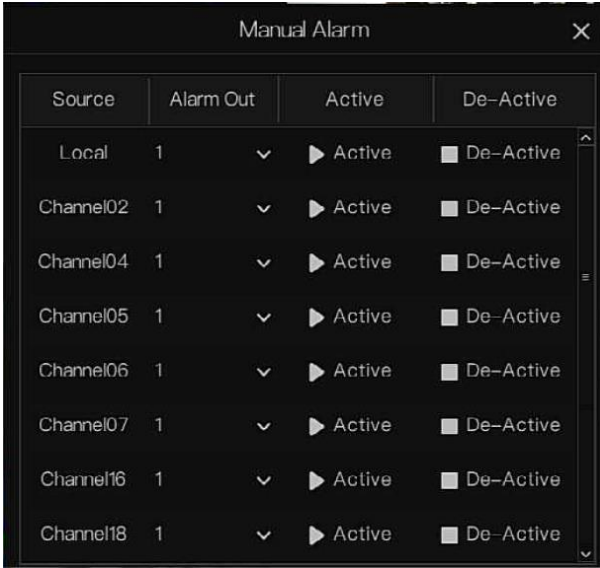
A main menu quick toolbar is display on the right of DVR floating menu bar. The main menu quick toolbar provides **Manual Alarm**, **Alarm Information**, **Clean Alarm Information** and **Time**, as shown in Figure 6-4.

Figure 6-4 Main menu quick toolbar



: Manual alarm, Click on the icon, the window shows in Figure 6-5.

Figure 6-5 Manual alarm



Source	Alarm Out	Active	De-Active
Local	1	▼ ▶ Active	■ De-Active
Channel02	1	▼ ▶ Active	■ De-Active
Channel04	1	▼ ▶ Active	■ De-Active
Channel05	1	▼ ▶ Active	■ De-Active
Channel06	1	▼ ▶ Active	■ De-Active
Channel07	1	▼ ▶ Active	■ De-Active
Channel16	1	▼ ▶ Active	■ De-Active
Channel18	1	▼ ▶ Active	■ De-Active



: Alarm message, Click on the icon to display a pop-up message window, as shown in

Figure 6-6.

6.1 Alarm message

Figure 6-6 Alarm message

Pop up message to monitor			×
Channel	Type	Start Time	
Channel11	Illegal Parking	16/04/2022 09:04:36	
Channel14	Motion Detection	16/04/2022 09:04:28	
Channel14	Motion Detection	16/04/2022 09:04:18	
Channel14	Motion Detection	16/04/2022 09:04:07	
Channel14	Motion Detection	16/04/2022 09:03:14	
Channel14	Motion Detection	16/04/2022 09:02:33	
Channel14	Motion Detection	16/04/2022 09:02:02	
Channel14	Motion Detection	16/04/2022 09:01:46	
Channel11	Illegal Parking	16/04/2022 09:01:36	
Channel14	Motion Detection	16/04/2022 09:01:23	
Channel14	Motion Detection	16/04/2022 09:00:34	
Channel14	Motion Detection	16/04/2022 09:00:13	

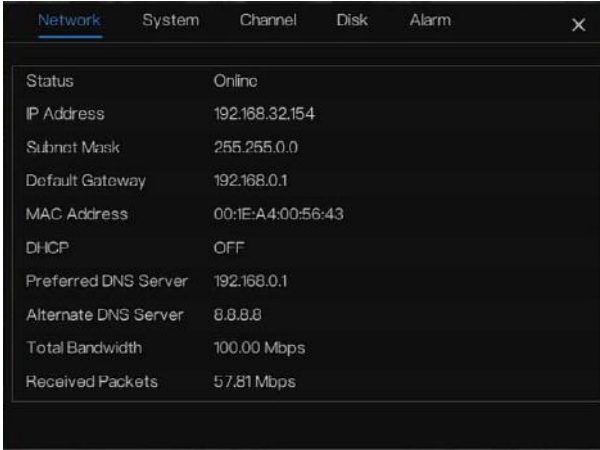


: Clean alarm, Click on the icon to clear current alarm actions like voice and external alarm.



: Information, click on the icon and the general information would show, like network, system, channel and disk, as shown in Figure 6-7.

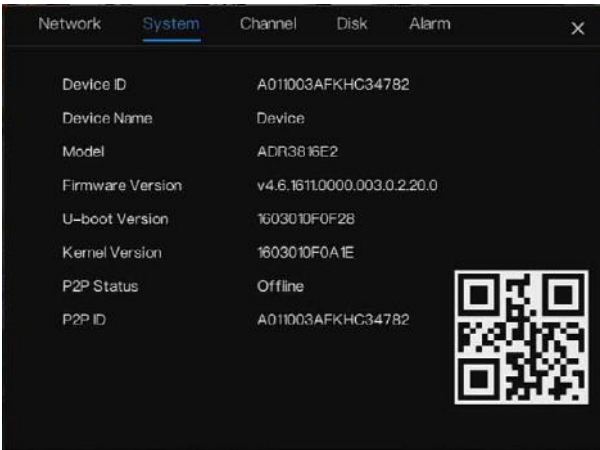
Figure 6-7 Information



The screenshot shows a window titled 'Information' with a dark background. At the top, there are five tabs: 'Network' (selected and underlined), 'System', 'Channel', 'Disk', and 'Alarm'. A close button 'X' is in the top right corner. Below the tabs is a table of network-related information.

Status	Online
IP Address	192.168.32.154
Subnet Mask	255.255.0.0
Default Gateway	192.168.0.1
MAC Address	00:1E:A4:00:56:43
DHCP	OFF
Preferred DNS Server	192.168.0.1
Alternate DNS Server	8.8.8.8
Total Bandwidth	100.00 Mbps
Received Packets	57.81 Mbps

Figure 6-8 System



The screenshot shows a window titled 'Information' with a dark background. At the top, there are five tabs: 'Network', 'System' (selected and underlined), 'Channel', 'Disk', and 'Alarm'. A close button 'X' is in the top right corner. Below the tabs is a table of system-related information and a QR code.

Device ID	A011003AFKHC34782
Device Name	Device
Model	ADR3816E2
Firmware Version	v4.6.1611.0000.003.0.2.20.0
U-boot Version	1603010F0F28
Kernel Version	1603010F0A1E
P2P Status	Offline
P2P ID	A011003AFKHC34782




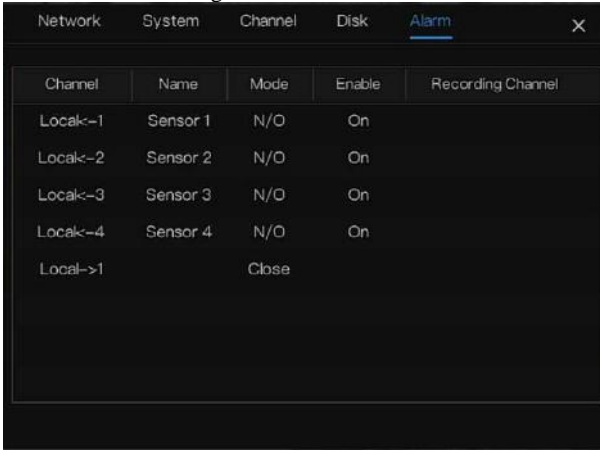
Figure 6-9 Channel

Channel	Name	Status	Video Format	Resolution	Bitrate(kb)
CH1	Channel01	Online	H.265/H.265	2560*1920/704*480	2048/768
CH4	SN-IPR808	Online	H.265/H.265	3840*2160/704*480	2048/1024
CH5	SN-IPR805	Online	H.265/H.265	3840*2160/704*576	2048/1024
CH6	SN-IPR805	Online	H.265/H.265	2592*1944/704*480	2048/1024
CH7	SN-IPR805	Online	H.265/H.265	2592*1944/704*480	2048/1024
CH8	H.265 C9N 4	Online	H.265/H.265	2592*1944/704*480	2048/1024
CH9	SN-IPR805	Online	H.265/H.265	2592*1944/704*480	2048/1024
CH10	SN-IPR804	Online	H.265/H.265	2592*1920/704*576	2048/1024

Figure 6-10 Disk

Disk	Capacity	Used	SN	Disk Model	Status
Disk1	12 TB	36 GB	5QJ8VD9B	WDC WD121EJ	Normal

Figure 6-11 Alarm



Channel	Name	Mode	Enable	Recording Channel
Local<-1	Sensor 1	N/O	On	
Local<-2	Sensor 2	N/O	On	
Local<-3	Sensor 3	N/O	On	
Local<-4	Sensor 4	N/O	On	
Local->1		Close		

6.2 Real Time Video Bar

Click realtime image, the quick setting will show as figure.



Record: Click the icon and start to record video. Click again to end record.

Instant playback: Click the icon, the window will play previous five minutes record video.

 is the time bar of playback.

Audio: Open or close the audio.

PTZ: This function is only useful for speed dome cameras. You can adjust every parameter as shown in Figure 6-12.

Figure 6-12 PTZ adjust screen



: Users adjust direction of camera.



: At this part, users can set **Advanced**, **Scan** and **Tour** settings.



: 3D, this function only can be used for high speed dome cameras. Click the icon to enter the camera live video screen, use the mouse to move the camera or zoom in or out the lens. Click the point to zoom in. Drag and draw the area, zoom in the drawing area, Reverse drag to zoom out.



: Zoom in, click zoom in, roll the mouse wheel to zoom in and zoom out. Right-click to exit the zooming.



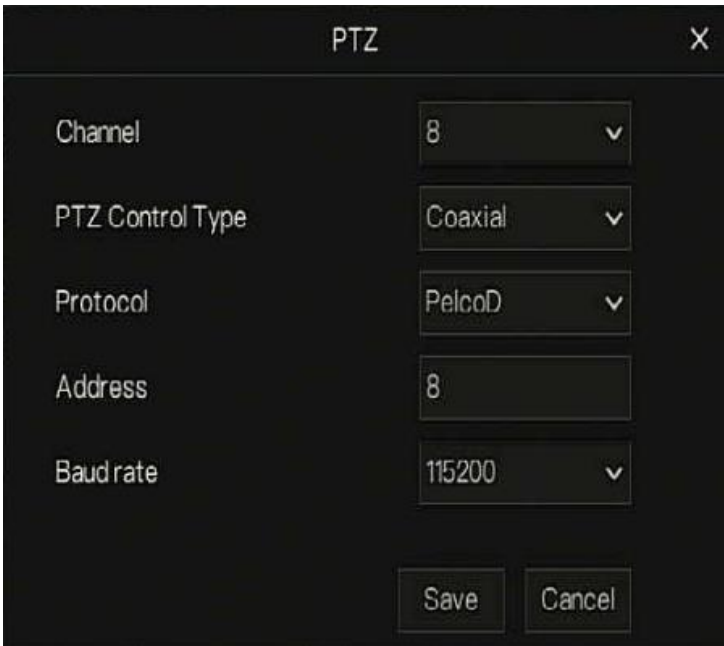
: Image, click on the icon, as shown in Figure 6-15. Select scene, and drag cursor to adjust value of brightness, sharpness, contrast and saturation.

Figure 6-13 Camera picture parameter



: click the button to enter the PTZ setting, as shown in Figure 6-14.

Figure 6-14 PTZ setting



: 3D, this function only can be used for high speed dome camera. Click the icon to enter the camera live video screen, use the mouse to move the camera or zoom in or out the lens. Click

Quick Navigation

the point to zoom in. Drag and draw the area, zoom in the drawing area, Reverse drag to zoom out.

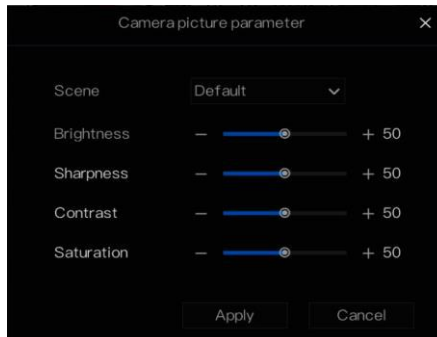


: Zoom in, click zoom in, roll the mouse wheel to zoom in and zoom out. Right-click to exit the zooming.



: Image, click on the icon ,as shown in Figure 6-15. Select scene, and drag cursor to adjust value of brightness, sharpness, contrast and saturation.

Figure 6-15 Camera picture parameter

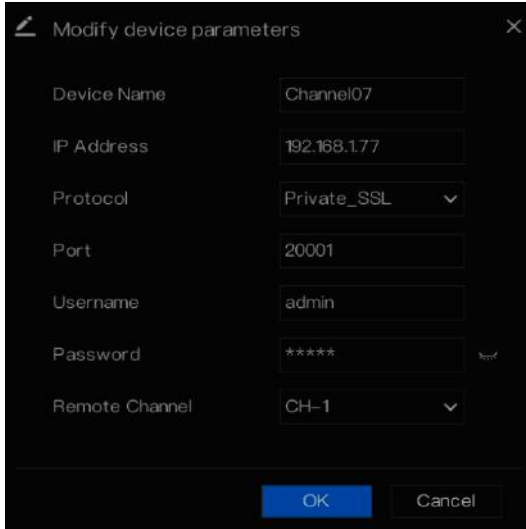


: Two way audio. The DVR and camera can talk to each other.



: Modify device parameters, as shown in Figure 6-16.

Figure 6-16 Modify device parameter



Parameter	Value
Device Name	Channel07
IP Address	192.168.1.77
Protocol	Private_SSL
Port	20001
Username	admin
Password	*****
Remote Channel	CH-1



: snapshot panorama (the USB drive is plugged into the DVR).

6.3 Playback

Playback refers to playing back a video.




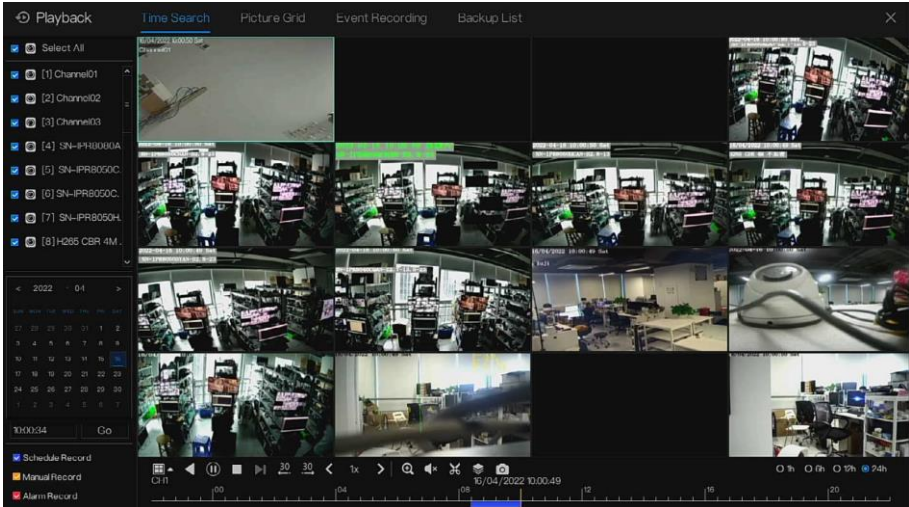
Click  in the quick navigation bar to access the playback screen, as shown in Figure 6-17.


Figure 6-17 Playback screen





The toolbar at the bottom of the playback screen is described as follows:



: Layout.


: Reversed, pause/play, stop.

:30s backward, 30s forward.

:Triple speed, it supports up to 32x to playback.

: Zoom.

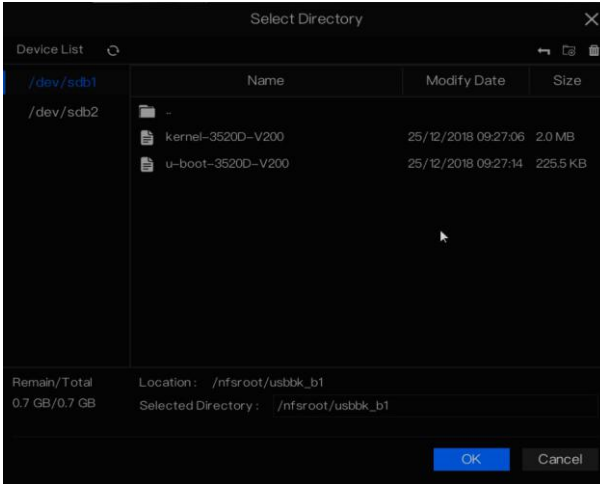
: Audio.

: Start and end backup. Click the icon, the video backup starts, select the video and click the icon again.

The backup type shows, click **Save**, then saving the file pop-up windows would show as Figure 6-18 . Click **OK** to save.

This function is available after a USB disk is plugging in the device.

Figure 6-18 Select directory



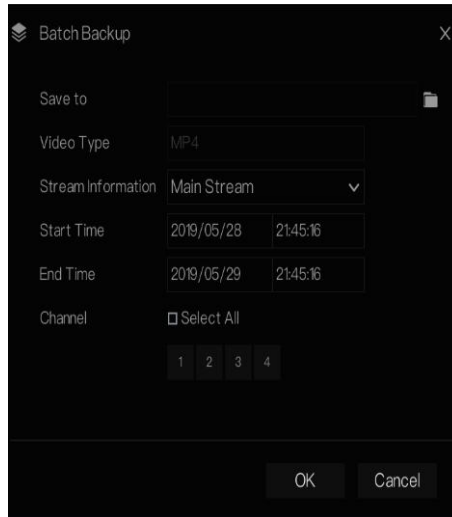
: Batch backup, click the icon to backup multi-channels, as shown in Figure 6-19.

Choose the folder to save, select the stream information from drop-down list, set the start time and end time, select the channels, Click **OK** to backup.



: Get a snapshot of the playback video's panorama if the USB disk is plugged in the DVR.

Figure 6-19 Batch backup



: Type of time bar, recording video can be showed.

6.3.1 Time Search

Search refers to searching for a video by date and time.

Operation Description


Click  in the quick navigation bar to access the search screen, as shown in Figure 6-20.

Figure 6-20 Time Search screen



Operation Steps

Step 1 Select a camera in the camera list on the left side of the search screen. The video view of the selected camera is displayed in the play window.

Step 2 Select a date in the calendar on the light-down side of the search screen.

Step 3 Choose record type, and search the video quickly.

Step 4 Choose proper button to adjust video.

----End

6.3.2 Picture Grid

Picture grid refers to evenly dividing the video of a channel by time range and searching for a video based on thumbnails divided by time range.

Click **Picture Grid** on the quick navigation bar to access the picture grid screen, as shown in Figure 6-21.

Figure 6-21 Picture grid screen

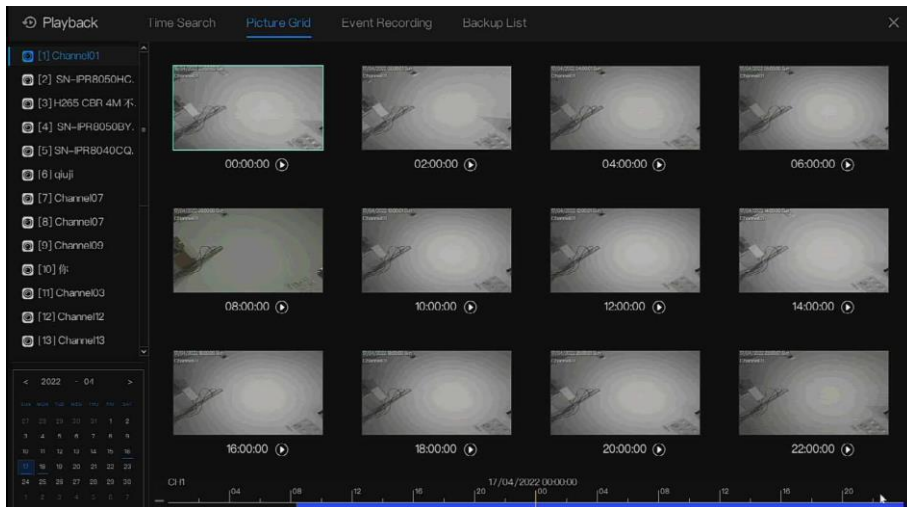


Figure 6-22 Replay



Operation Steps

- Step 1 Select a camera in the camera list on the left side of the picture grid screen. Videos shot by the camera in the earliest time range on the current day are displayed as thumbnails in the window on the right side.
- Step 2 Select a day from calendar.
- Step 3 One day dividends for 12 grids, two hours for one grid.
- Step 4 Select a required thumbnail, double-click it or right-click it and choose Play from the shortcut menu to play the video.

----End

6.3.3 Event Recording


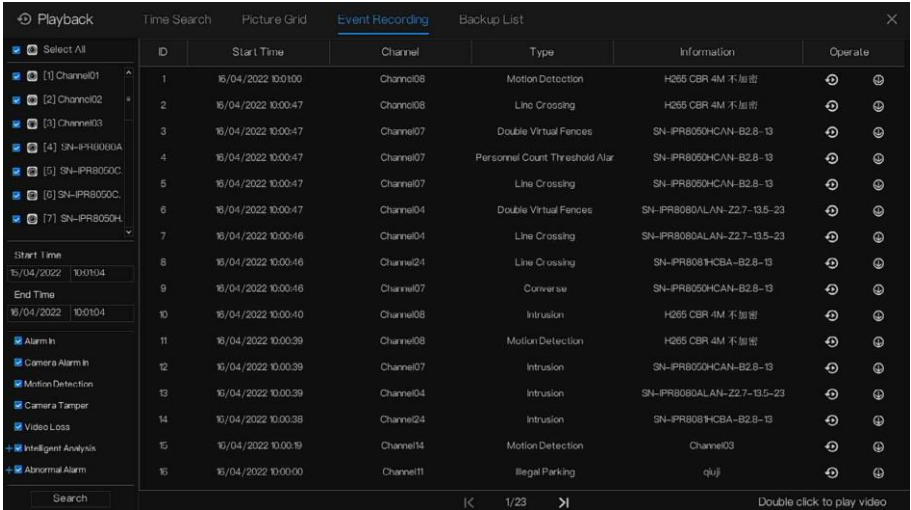
Click  on the quick navigation bar; choose **Event Recording** at title to access the alarm event screen, as shown in Figure 6-23.

Figure 6-23 Event screen




ID	Start Time	Channel	Type	Information	Operate
1	16/04/2022 10:01:00	Channel08	Motion Detection	H265 CBR 4M 不加密	
2	16/04/2022 10:00:47	Channel08	Line Crossing	H265 CBR 4M 不加密	
3	16/04/2022 10:00:47	Channel07	Double Virtual Fences	SN-IPR8050HCAN-B2.8-13	
4	16/04/2022 10:00:47	Channel07	Personnel Count Threshold Alar	SN-IPR8050HCAN-B2.8-13	
5	16/04/2022 10:00:47	Channel07	Line Crossing	SN-IPR8050HCAN-B2.8-13	
6	16/04/2022 10:00:47	Channel04	Double Virtual Fences	SN-IPR8080ALAN-Z2.7-13.5-23	
7	16/04/2022 10:00:46	Channel04	Line Crossing	SN-IPR8080ALAN-Z2.7-13.5-23	
8	16/04/2022 10:00:46	Channel24	Line Crossing	SN-IPR8081HCBA-B2.8-13	
9	16/04/2022 10:00:46	Channel07	Converse	SN-IPR8050HCAN-B2.8-13	
10	16/04/2022 10:00:40	Channel08	Intrusion	H265 CBR 4M 不加密	
11	16/04/2022 10:00:39	Channel08	Motion Detection	H265 CBR 4M 不加密	
12	16/04/2022 10:00:39	Channel07	Intrusion	SN-IPR8050HCAN-B2.8-13	
13	16/04/2022 10:00:39	Channel04	Intrusion	SN-IPR8080ALAN-Z2.7-13.5-23	
14	16/04/2022 10:00:38	Channel24	Intrusion	SN-IPR8081HCBA-B2.8-13	
15	16/04/2022 10:00:19	Channel14	Motion Detection	Channel03	
16	16/04/2022 10:00:00	Channel11	Illegal Parking	quji	

Operation Steps

Step 1 Select a camera in the camera list on the left.

Step 2 Set start and end time.

Step 3 Tick the alarm type, such as alarm in, motion alarm, block alarm, video loss and intelligent analysis.

Step 4 Click  to query the event, the result would show at window.

Step 5 Double click to play video about event. It will play recording video.

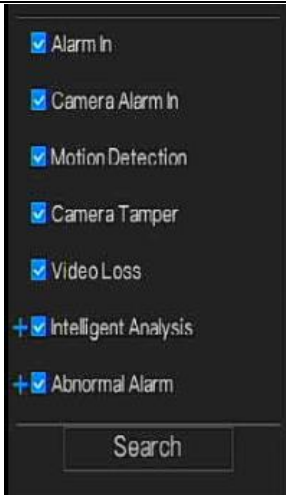


: Play the recording video.



: Backup the recording video.

Quick Navigation



the type of intelligent analysis and abnormal alarm are subdivided,

Users can tick the detail alarm to show.

Intelligent analysis includes perimeter, single virtual fence, double virtual fences, loiter, multi loiter, object left, object removed, abnormal speed, converse, illegal parking, signal bad, register, stranger, registered license plate, over temperature, low temperature, abnormal temperature, threshold warning, threshold alarm, temperature difference warning, temperature difference alarm, temperature section alarm, face temperature, wear mask, no mask, personnel count threshold alarm, personnel count threshold alarm(IPC) .

Abnormal alarm includes disk error, IP conflict, network disconnected.

Users can choose the accurate alarm events to search.

---End

6.3.4 Backup List



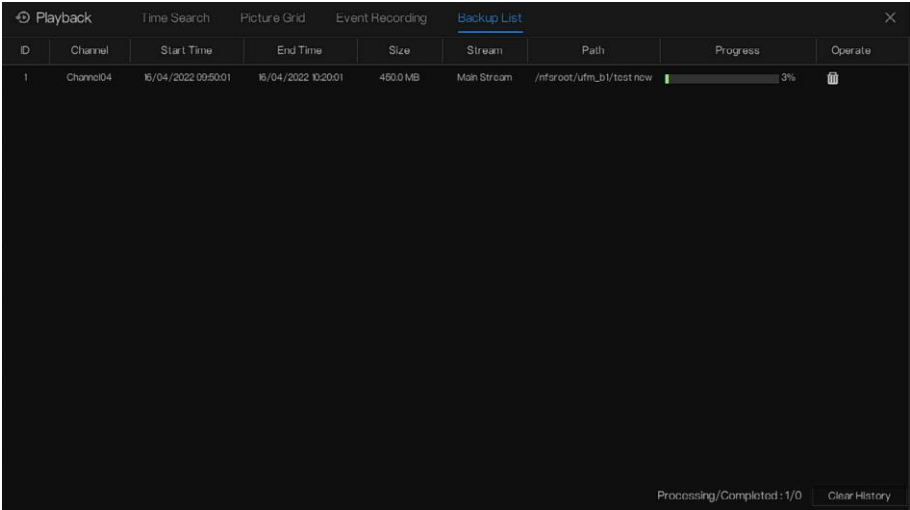
Click  on the quick navigation bar, choose  at title to access the backup screen, as shown in Figure 6-6.

Figure 6-24 Backup list screen




You can view the detail information of backup. Click delete button to quit the download.

----End

7 UI System Setting

7.1 Channel Information

Click the  will show as Figure 7-1, tick the Channel or Encode, the information will show in live video screen.


Click  to switch the live video strategy based on actual scene.

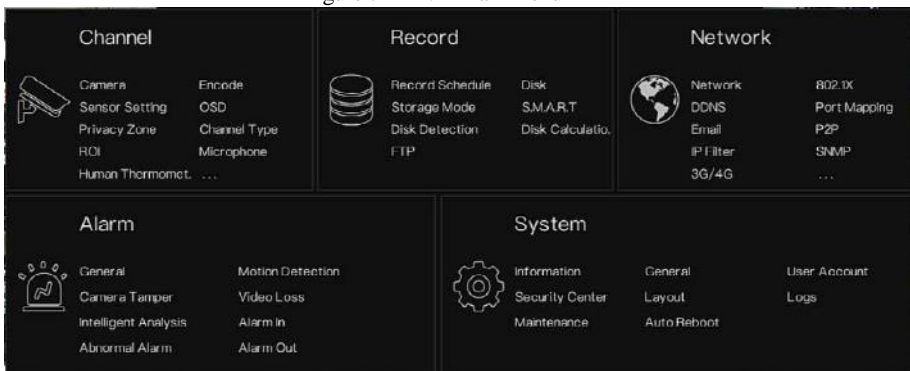
Figure 7-1 Channel information



7.2 Main Menu

Right-click on UI screen, the main menu as shown in Figure 7-2. The main menu includes **Channel, Record, Network, Alarm** and **System**.

Figure 7-2 DVR main menu



----End

7.3 Channel Management

Analog cameras can directly connect to input channels of the DVR by cables to connect. When analog cameras are insufficient, the DVR can automatically search for and adds IP cameras or manually add cameras in the same Local Area Network (LAN).

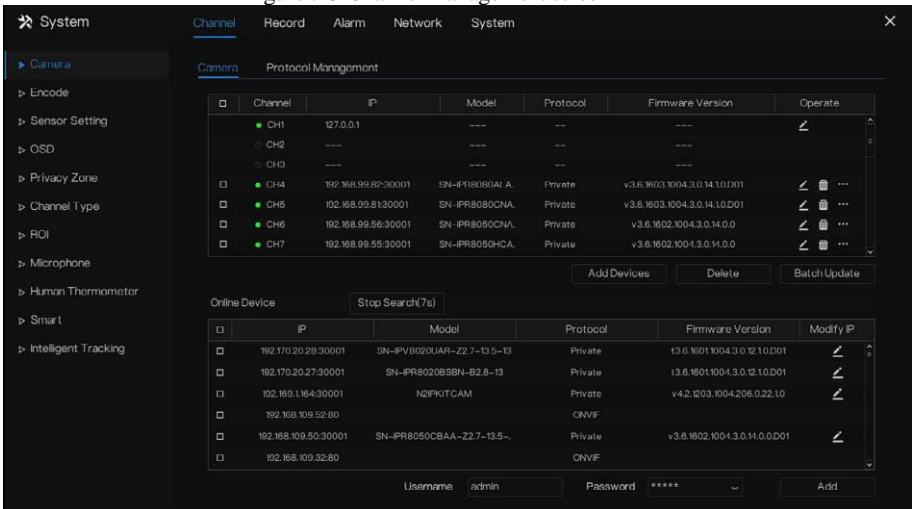
Channel management includes add or delete **Camera, Encode, Sensor Setting, OSD Privacy Zone, Channel Type, ROI, Microphone, Human Thermometer, Smart, Intelligent Tracking and so on.**

7.3.1 Camera

Operation Description

Click **Channel** in the main menu to access the camera management screen, as shown in Figure 7-3 .



Figure 7-3 Channel management screen

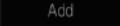



7.3.1.1 Add Camera Automatically

The DVR can add automatically cameras to the camera list.

Operation Methods



Method 1: Click  button, the cameras that are on the same network as the DVR will show in list, input username and password (the default value both are admin), click , the cameras in the list would be added to channels directly.

Method 2: Select the cameras you want to add, and click  the selected cameras would be added to the camera list.

Tick the online non-onvif channels at list and click  to access the directory of software; it would to update the channels at once.



NOTE

On the camera management screen, check the status of channel in the camera list. If the status of a channel is , this camera is online. If the status of a channel is , this camera is offline.

The added cameras should be on the same network segment as DVR.

----End

7.3.1.2 Add Camera Manually

Operation Steps


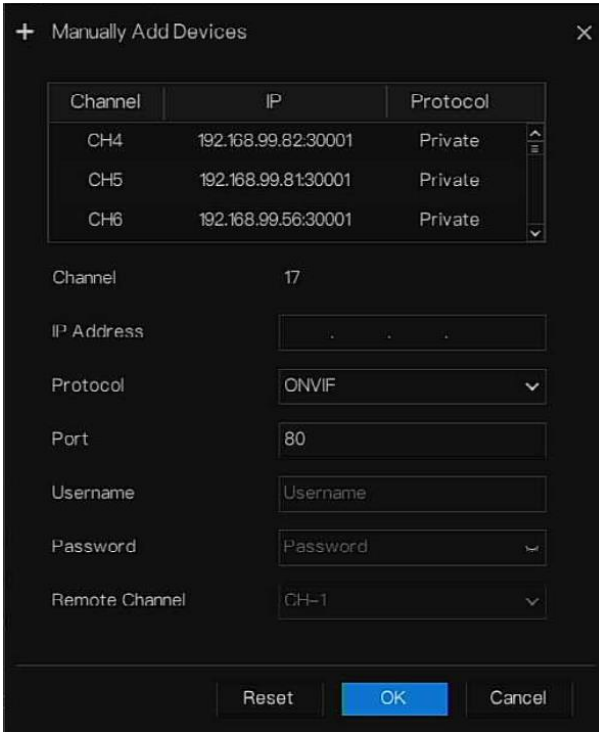

Step 1 Click , the screen to add devices manually is displayed, as shown in Figure 7-4.

Figure 7-4 Add camera screen



Step 2 Input IP address (click the on list, modify the IP to enter address quickly), port, user name and password of camera.

Step 3 Select a protocol from the drop-down list. Remote channel is only used for thermal imaging cameras.

Step 4 Click , the camera is added successfully.

 **NOTE**

If all channels of the DVR are connected by cameras, please delete the cameras that you don't need, so that you can add more cameras.

If an IP camera is added manually, input the correct username and password of the camera below the online device list. The camera will be added successfully. If not, the camera will show on list at offline.

----End

7.3.1.3 Delete Camera

Operation Steps


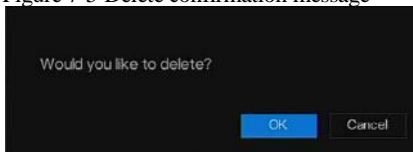

Step 1 Select a camera to delete in the camera list and click  , the delete confirmation message screen is displayed, as shown in Figure 7-5.

Figure 7-5 Delete confirmation message



Step 2 Click  , the camera is deleted successfully.

----End

7.3.1.4 Operate Camera


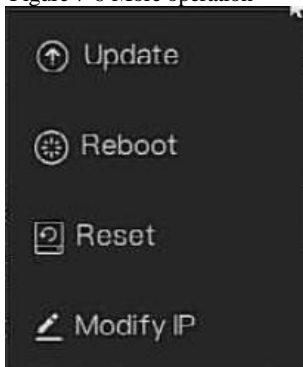
At camera list, click  to operate camera as shown in Figure 7-6, users can update, reboot and reset the camera immediately.

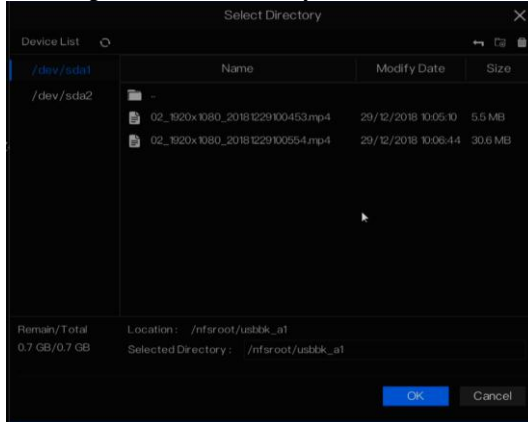
Figure 7-6 More operation





Step 1 Click **Update**, and select the software in pop-up window, as shown in Figure 7-7.

Step 2 Set the directory and click  to update camera.

Figure 7-7 Select directory of software



Step 3 Click **Reboot**, message “Are you sure to reboot?” would show, click  to reboot the camera.

Step 4 Click **Reset**, message “Are you sure to reset?” would show, users can enable the retain IP address function. Click  to reset the camera.

Step 5 Tick the cameras with non-onvif protocol and cameras are online, click **Update** to update all cameras at once.

Step 6 The IP of online cameras can be modified, click **Modify IP** to modify as shown in following figure, input the new IP address and subnet mask.

 **NOTE**

Update need upload the software by flash driver.

----End

7.3.1.5 Protocol Management

Set the protocol management, users can add different protocol cameras to DVR

Figure 7-8 Protocol management

Step 1 Click **Channel > Camera > Protocol Management**.

Step 2 Choose the custom protocol from the drop-down list, there are 16 kinds of protocols can be set.

Step 3 Input the protocol name.

Step 4 Tick main stream and sub stream. The main stream shows image on full screen live video. The sub stream shows image on split screen. If you just tick main stream and the channel will not show image on split screen.

Step 5 Choose the type of protocol, the default value is RTSP.

Step 6 Input the port, it depends on the IP camera.

Step 7 Input the path, it depends on the manufacturer of cameras.

Step 8 Click **Apply** to save the settings

----End

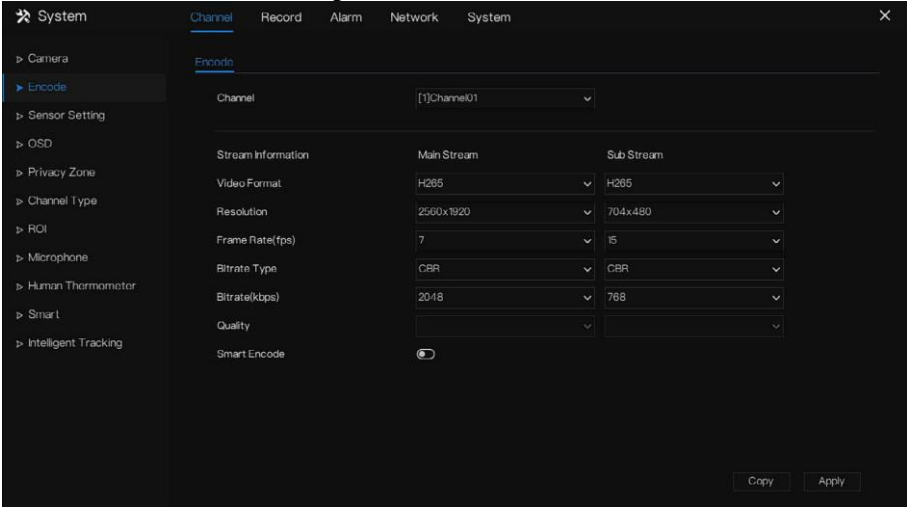
7.3.2 Encode Parameter

The system allows setting the stream information, encoding type, resolution, frame rate, bitrate control, bitrate and quality for cameras in a channel in **Encode Parameter** screen.

Operation Description

Click **Encode** in the main menu or **Menu** of the channel management screen and choose **Encode** to access the **Encode** screen, as shown in Figure 7-9.

Figure 7-9 Encode screen



Operation Steps

Step 1 Select a channel from the drop-down list of channel.

Step 2 Set video format, audio encode type, resolution, frame rate, bitrate type, bitrate size and quality (for VBR) from the drop-down lists.

Step 3 Click **Copy** and select channels or tick **All**, then click **OK** to apply the parameter settings to cameras in selected channels, click **Apply** to save encode parameter settings.

----End

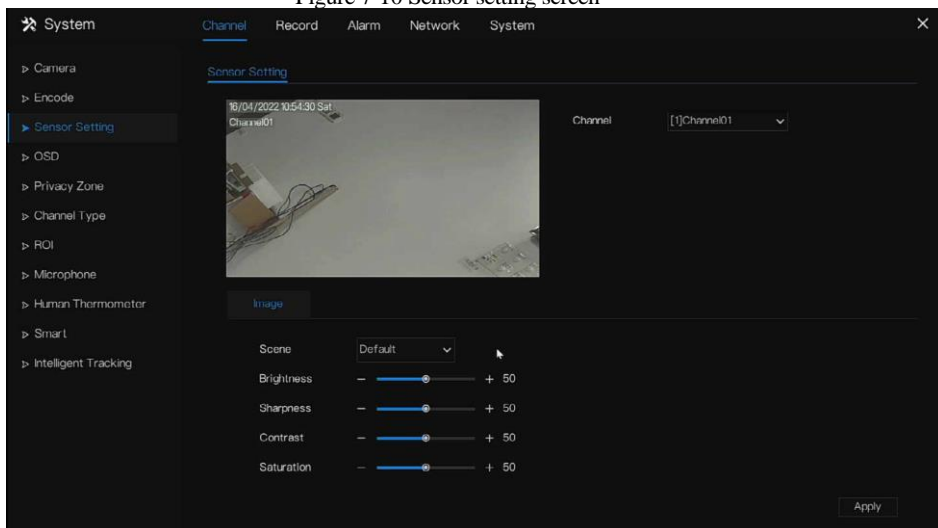
7.3.3 Sensor Setting

Sensor setting refer to basic attributes of pictures, it includes brightness, sharpness, contrast and saturation. You can set picture parameters for each channel based on scene.

Operation Description

Click **Sensor Setting** in the main menu or click menu of the channel management screen and choose **Sensor Setting** to access the Sensor Setting screen, as shown in Figure 7-10.

Figure 7-10 Sensor setting screen



The Sensor Setting is as follows:

- Brightness: it indicates brightness or darkness of picture.
- Sharpness: it indicates picture's clarity.
- Contrast: it refers to the brightest white and darkest black in an image.
- Saturation: it indicates brilliance of the picture color.

Other parameters are sensor settings of IP cameras, like scene, exposure, white balance, day-night, noise reduction, enhance image, zoom focus, etc.

- Scene: it includes indoor, outdoor, default. Mirror includes normal, horizontal, vertical, horizontal + vertical.
- Exposure: it includes mode, max shutter, meter area and max gain.
- White balance: it includes tungsten, fluorescent, daylight, shadow, manual, etc.
- Day-night: Users can transit day to night, or switch mode.
- Noise reduction: it includes 2D NR and 3D NR.
- Enhance image: it includes WDR, HLC, BLC, defog and anti-shake.
- Zoom focus: Users can zoom and focus.



NOTE

The analog cameras can only adjust the image parameters.

Operation Steps

Step 1 Select a channel from the drop-down list of channel.

Step 2 Select scene from the drop-down list. The default values of picture parameters vary with scenarios.

Step 3 Set parameters.

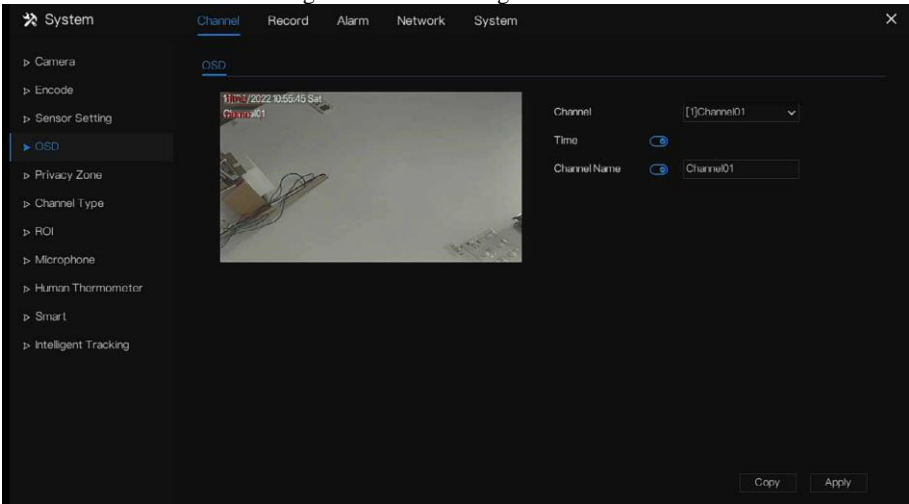
Step 4 Click **Default** to reset to factory settings, click **Apply** to save image settings.

----End

7.3.4 OSD Settings

Click **OSD** in the main menu or menu of the channel management screen and choose **OSD** to access the OSD screen, as shown in Figure 7-11.

Figure 7-11 OSD setting screen



Operation Steps

Step 1 Select a channel from the drop-down list of channel.

Step 2 Click next to Time to enable or disable OSD time setting.

Step 3 Click next to Name to enable or disable OSD channel setting.

Step 4 Set the channel name.

Step 5 In the video window, click and drag time or channel to move to a location.

UI System Setting

Step 6 Click **Copy** and select channels, then click **OK** to apply the OSD settings to cameras in selected channels , click **Apply** to save OSD settings.

----End

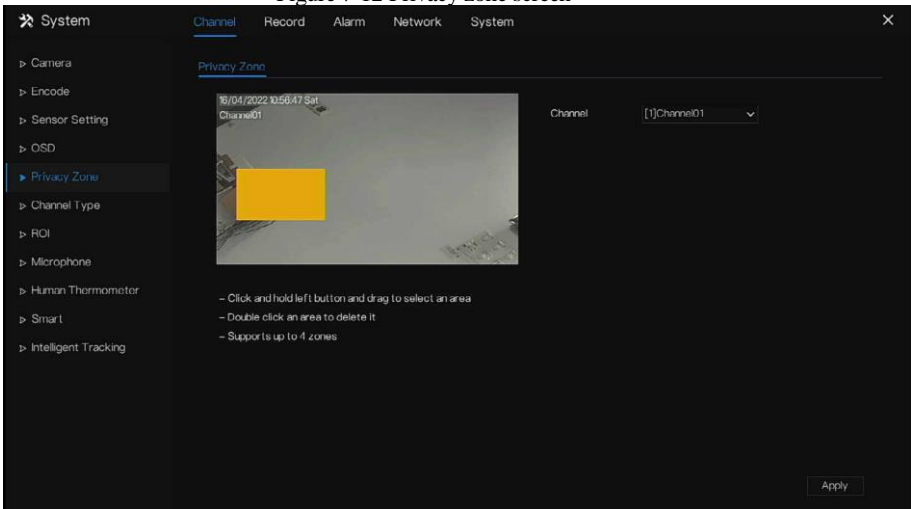
7.3.5 Privacy Zone

The system allows you to mask images in a specified zone and this zone is called privacy zone.

Operation Description

Click **Privacy Zone** in the main menu or menu of the channel management screen and choose privacy zone to access the **Privacy Zone** screen, as shown in Figure 7-12.

Figure 7-12 Privacy zone screen



Operation Steps

Step 1 Select a channel from the drop-down list of channel.

Step 2 In the video window, hold down and drag the left mouse button to draw a privacy area.

Step 3 Click **Apply** to save privacy settings.

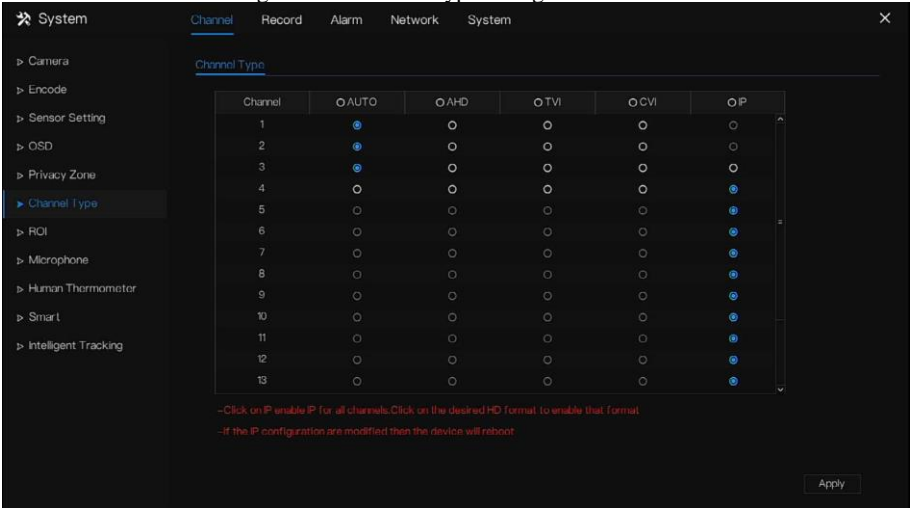
Step 4 Double click privacy area to delete setting.

----End

7.3.6 Channel Type

Click **Channel Type** in the main menu or menu of the channel management screen and choose **Channel Type** to access the Channel Type screen, as shown in Figure 7-13.

Figure 7-13 Channel Type setting screen



Operation Steps

Step 1 Choose channel to set channel type.

Step 2 Some devices have $N+0.5N$ channels, the N means maximum number of connected analog cameras. $0.5N$ is the minimum number of IP cameras.

NOTE

Click on IP enable IP for all channels. Click on the desired HD format to enable that format.

If the IP configuration are modified the device will reboot.

7.3.7 ROI

NOTE

This function can only be used for IP cameras.

Click **ROI** in the main menu or menu of the channel management screen and choose **ROI** to access the ROI screen, as shown in Figure 7-14.

Figure 7-14 ROI

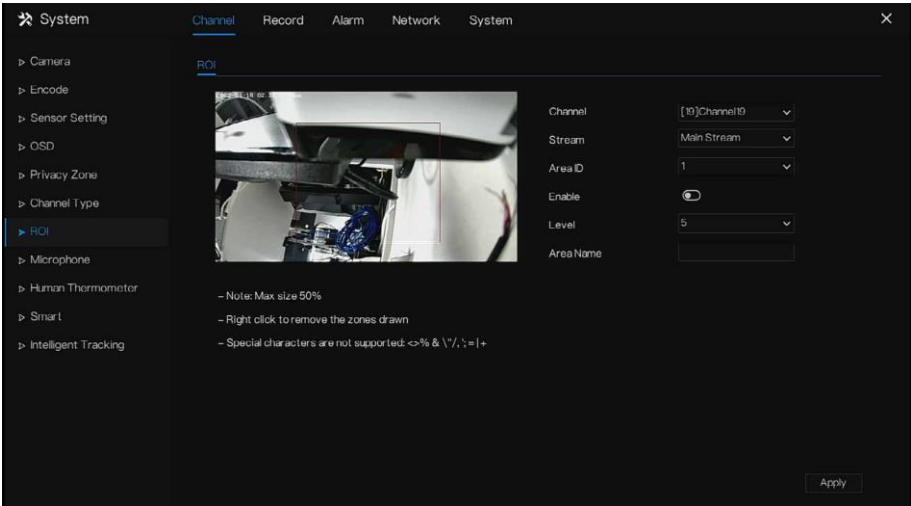


Table 7-1 RIO parameter

Parameter	Description	Setting
Stream	Stream ID.	[Setting method] Select a value from the drop-down list box. [Default value] Stream 1
Enable	Enable the ROI	[Setting method] Click the button. [Default value] OFF
Area ID	ROI area ID, there are 8 areas.	[Setting method] Select a value from the drop-down list box. [Default value] 1

Parameter	Description	Setting
Level	Visual effect of ROI. The higher the grade is, the clearer areas inside and the vaguer areas outside are. There are five levels.	[Setting method] Select a value from the drop-down list box. [Default value] 5
Area Name	The marked name used for areas.	[Setting method] Enter a value manually. The value cannot exceed 32 bytes.

7.3.8 Microphone



NOTE

This function can only be used for IP cameras with microphone or the external microphone.

Click **Microphone** in the main menu or menu of the channel management screen and choose **Microphone** to access the Microphone screen, as shown in Figure 7-15.

Figure 7-15 Microphone

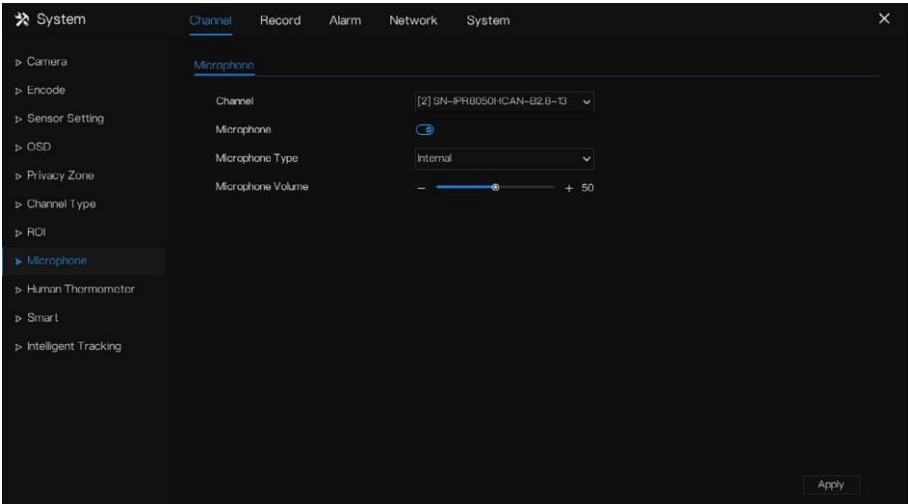


Table 7-2 Microphone

Parameter	Description	Setting
Enable Microphone	Indicates whether to enable the microphone function.	[Setting method] Click the button on to enable microphone.
Microphone Type	Microphone types include: <ul style="list-style-type: none"> • Line In, an active audio input is required. • Internal, the cameras are with microphone. 	[Setting method] Select a value from the drop-down list box.
Microphone Volume	Allows you to adjust the microphone volume.	[Setting method] Slide the slider left or right. [Default value] 50 NOTE The value ranges from 0 to 100.

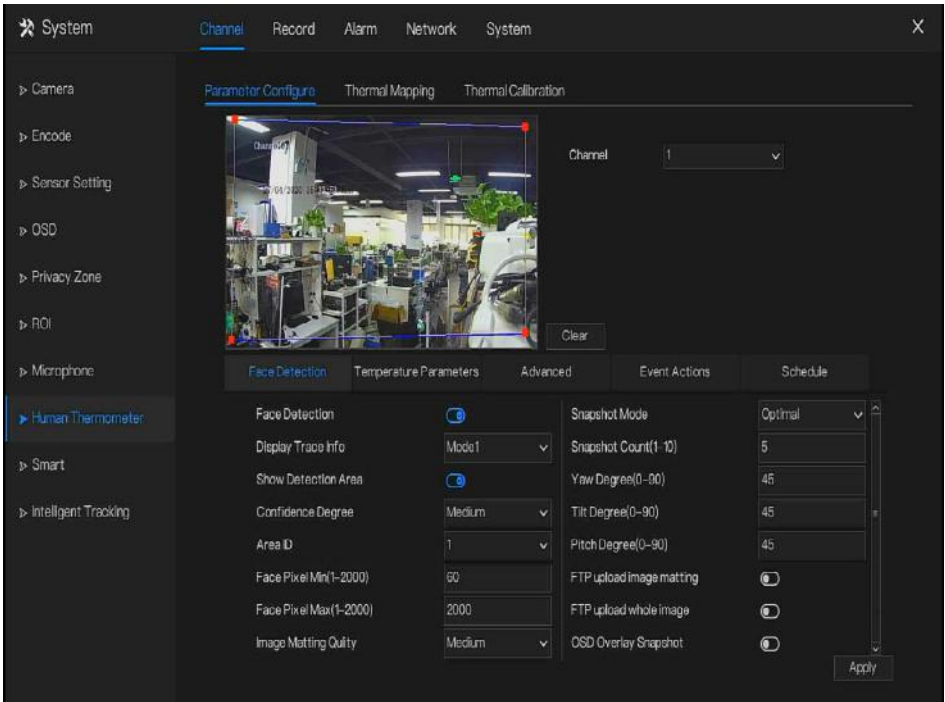
7.3.9 Human Thermometer (Only for Some Models)

NOTE

This function can only be used for human thermal cameras.

Click **Human thermometer** in the main menu or menu of the channel management screen and choose **Human thermometer** to access the **Human thermometer** screen, as shown in Figure 7-16.


Figure 7-16 Human thermometer



7.3.9.1 Parameter Configuration

Table 7-3 Human thermometer

Parameter	Description	Setting
Face detection	Detect face of human	[Setting method] Enable

		[Default value] On
Display trace	Display the information of tracing.  Mode 1:	[Setting method] Enable the button [Default value] Mode 1
Show detection area	Enable, the live video will show area of detection.	[Setting method] Enable
Confidence coefficient	Face detection sensitivity, the value range is high, medium, low, the larger the value is, the higher the sensitivity. The higher the sensitivity value is, the higher the detection rate will be, but the more false detection may occur, such as the false detection of the patterns on pedestrian clothes to adult faces.	[Setting method] Choose from drop -list [Default value] Medium
Area ID	There are 8 areas can be set to detect temperature. Choose from the drop-list, left-click to draw the area, right-click to finish the set.	[Setting method] Choose from drop -list [Default value] 1
Face pixel min (1-2000)	When the pixel of the face in the image is less than the set value (the minimum pixel for face recognition), it is not	[Setting method] Input a number from 1 to 2000 [Default value]

	captured.	30
Face pixel max (1-2000)	When the pixel of the face in the image is more than the set value (the maximum pixel for face recognition), it is not captured.	[Setting method] Input a number from 1 to 2000 [Default value] 70
Image matting quality	The quality of snap image, There are three modes can be chosen, such as low, mid and high.	[Setting method] Choose from drop list. [Default value] Medium
Snapshot mode	There are two types, timing and optimal.	[Setting method] Choose from drop -list [Default value] Timing
Upload image interval	The snapshot mode is optimal, set the interval.	[Setting method] Input a number from 1 to 10 [Default value] 5
Snapshot count	At optimal mode, set the number of snapshot image	[Setting method] Input 1
Yaw degree(0-90)	Both eyes appear on the screen, offset in the left and right direction	[Setting method] Input a number from 0 to 90 [Default value] 30
Tilt degree(0-90)	The face is deflected, and both eyes cannot appear in the	[Setting method] Input a number from 0 to

UI System Setting


	picture.	90 [Default value] 30
Pitch degree(0-90)	Face is moving up and down	[Setting method] Input a number from 0 to 90 [Default value] 30
FTP upload image matting	Configuration > Network Service > FTP , set FTP related parameters, the captured picture will be sent to the set FTP location	[Default value] Disable
FTP upload whole image	Capture a picture and send a whole image.	[Default value] Disable
OSD over snapshot	Enable, the snapshots will record the temperature, as shown in figure. 	[Default value] Disable

Figure 7-17 Temperature parameters

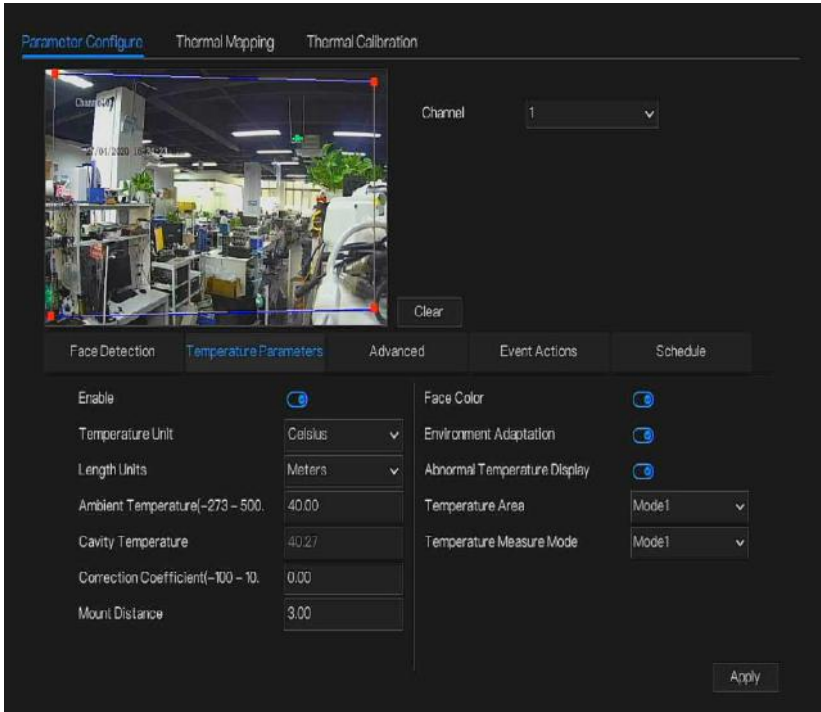



Table 7-4 Temperature parameters

Parameter	Description	Setting
Temperature Unit	Celsius and Fahrenheit temperature units are available. The unit is link to all temperature parameter, please modify the linkage value.	[Setting method] Select a value from the drop-down list box. [Default value] Celsius
Ambient Temperature	The ambient temperature of camera.	[Setting method] Enter a value manually.
Cavity Temperature	The cavity temperature of camera.	N/A

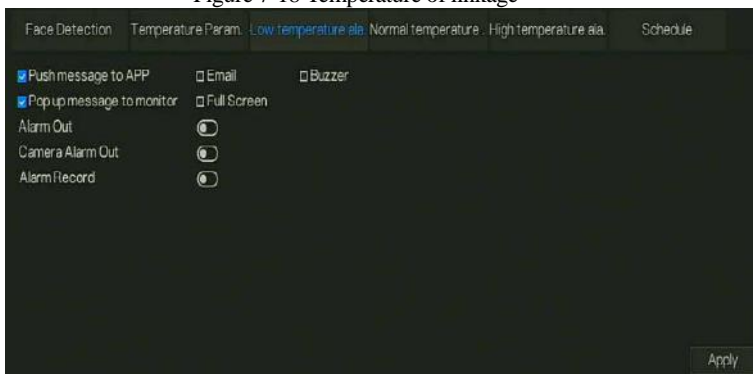
UI System Setting

Parameter	Description	Setting
Correction Coefficient	<p>Correction coefficient refers to the deviation of measured object temperature and actual temperature.</p> <p>For example:</p> <ol style="list-style-type: none"> 1. The measured object temperature is 30, and actual temperature is 37, so the correction coefficient is 7. 2. The measured object temperature is 37, and actual temperature is 30, so the correction coefficient is -7. 	<p>[Setting method]</p> <p>Enter a value manually.</p> <p>[Default value]</p> <p>0.00</p>
Mount distance	<p>The actual distance between the detection person and the device, it is set to facilitate the temperature measurement accuracy.</p>	<p>[Setting method]</p> <p>Select a value from the drop-down list box.</p> <p>[Default value]</p> <p>General</p>
Face color	<p>Enable, if the camera detect the face and the face will be covered color, normal temperature is yellow, and high temperature is red, as shown in figure.</p> 	<p>[Default value]</p> <p>Disable</p>

Parameter	Description	Setting
Environment adaptation	Enable, the device will restart the temperature if the ambient temperature of camera varies greatly. It is recommended not to open.	[Default value] Disable
Abnormal temperature display	Enable, the measure temperature is lower than 34 °C will show on OSD. Disable, the measure temperature is lower than 34 °C will not show on OSD.	[Default value] Disable
Temperature area	Two modes show at themal channel. Mode 1 is full face area, mode 2 is forehead area.	[Setting method] Select a value from the drop-down list box. [Default value] Mode 1
Temperature measure mode	Two modes, mode 1 is suitable for high air temperature, if the forehead temperature is less than 31 °C, it will not show as body temperature. Mode 2 is suitable for low air temperature, if the forehead temperature is at 30-31 °C, so it will show as body temperature too.	[Setting method] Select a value from the drop-down list box. [Default value] Mode 1

Parameter	Description	Setting
Normal temperature range	Set the normal temperature range. Less than the lower normal is value low temperature. Higher than the higher normal value is high temperature.	[Setting method] Enter values manually.

Figure 7-18 Temperature of linkage



Enable low temperature alarm, normal temperature alarm, and high temperature alarm as you need.

The alarm can be set as **pushing message to APP**, **sending Email**, **Buzzer**, **Pop up message to monitor**, **Full screen**, or enabling **alarm out**, **camera alarm out**, **alarm record**.

7.3.9.2 Thermal Mapping

Figure 7-19 Thermal mapping

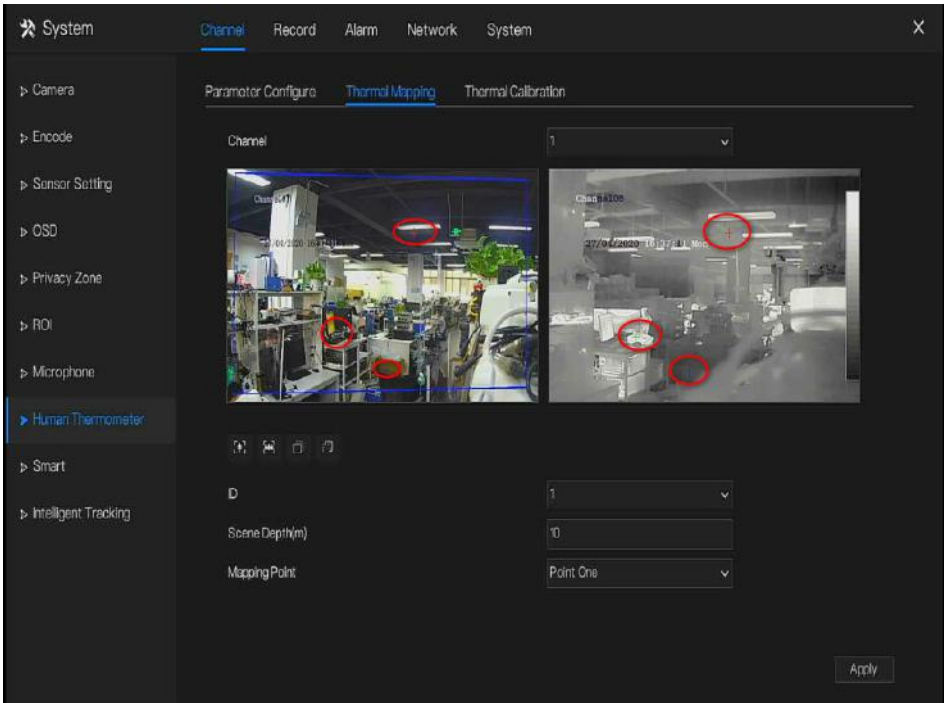

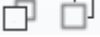


Table 7-5 Parameter of thermal mapping

Parameter	Description	Setting
	Zoom in /zoom out.	[Setting method] Click the button
	Near focus / far focus.	[Setting method] Click the button
Lock focus position	N/A	[Setting method] Tick .

UI System Setting

Parameter	Description	Setting
ID	There are 8 scenes can be calibrated.	[Setting method] Select from drop-down list .
Scene depth(m)	The distance of the clear image presented within the range before and after the focus.	[Setting method] Input value
Mapping point	You need map three points at two channels. Points are correspond of each. The three points should cover most areas, and two points are located in the diagonal display of the picture. Point one is green cross. Point two is red cross. Point three is blue cross.	[Setting method] Select from drop list .

7.3.9.3 Thermal Calibration

Figure 7-20 Thermal calibration

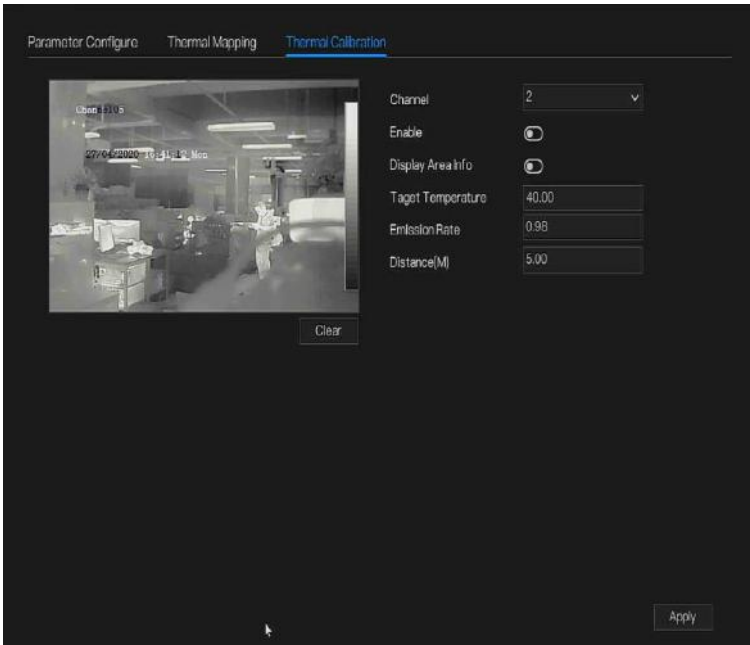


Table 7-6 Thermal calibration

Parameter	Description	Setting
Display area information	Enable to show the information of displaying area.	[Setting method] enable
Target temperature	The special calibration tool's temperature, it is general black body's target temperature.	[Setting method] Input value
Emission rate	Emission rate is the thermal calibration device's base parameter, the general blackbody's is 0.98.	[Setting method] Input value

Parameter	Description	Setting
Distance	Distance is the actual horizontal distance between the measuring object and the camera	[Setting method] Input value

7.3.10 Smart (Only for Some Models)

 **NOTE**

The comparison function is only for AI multiobject cameras, please refer to actual cameras.

7.3.10.1 AI Multiobject

Figure 7-21 AI multiobject

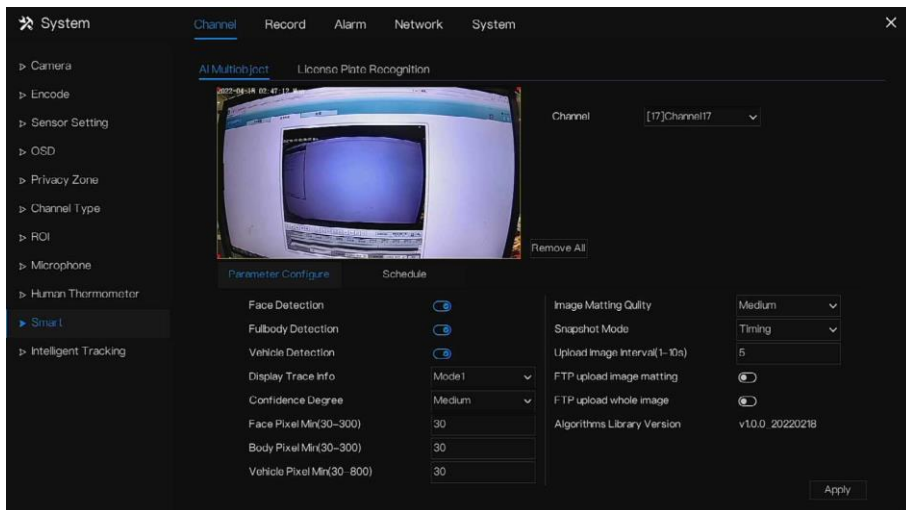




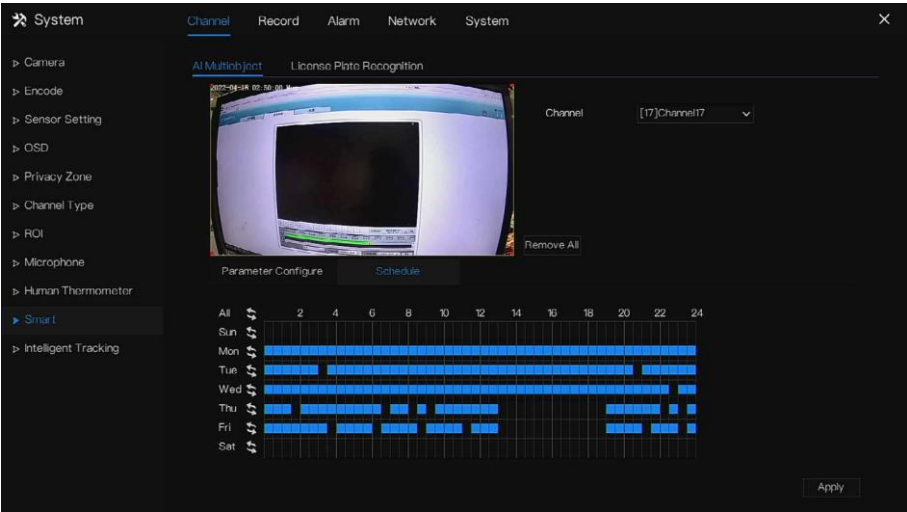
Table 7-7 AI multiobject

Parameter	Description	How to set
Face detection	The camera will capture the face when someone appears in live video.	Enable
Full body detection	The camera will capture the whole body when someone appears in live video.	Enable
Vehicle detection	The camera will capture the licence when the vehicle appears in live video.	Enable
Display trace info	<p>Enable the function and a trace frame will show at live video.</p> <p>Mode 1: </p> <p>Mode 2: </p>	Choose from drop list.
Show detection area	Enable to set a detection area, and the frame will show at live video	Enable
Confidence coefficient	The range of snap image, there are three type, such as high, mid and low. The higher the confidence, the better the snap quality and the fewer snapshots.	Choose from drop list.
Face pixel min(30-300)	30-300 pixels, the smaller the pixel be set, the more faces will be captured, but it may be mistaken.	Input a value ranges 30 to 300
Body pixel min(30-300)	30-300 pixels, the smaller the pixel be set, the more bodies will be captured, but it may be wrong.	Input a value range 30 to 300
Plate pixel min(30-300)	30-300 pixels, the smaller the pixel be set, the more face will be captured, but it may be	Input a value range 30 to 300

UI System Setting

Parameter	Description	How to set
	mistaken.	
Vehicle pixel min(30-300)	30-300 pixels, the smaller the pixel be set, the more license plates will be captured, but it may be wrong.	Input a value ranges 30 to 300
Image matting quality	The quality of snap image, There are three mode can be chosen, such as low, mid and high.	Choose from drop list.
Attribute	Click to enable, the screenshot can display the relevant basic information of the vehicle. Such as the age of people, gender, etc. The color, model of the car.	Enable
Snapshot mode	There are two modes can be chosen, such as timing, and optimal.	Choose from drop list.
Upload image interval(1-10 s)	At timing mode, set the interval of upload image.	Input a value ranges 1 to 10
FTP upload image matting	Configuration > Network Service > FTP , set FTP related parameters, the captured picture will be sent to the set FTP location	Enable
FTP upload whole image	Capture a picture and send a whole image.	Enable

Figure 7-22 Schedule



7.3.10.2 License Plate Recognition (Only for Some Models)

 **NOTE**

This function can only be used for cameras with license plate detection.

Figure 7-23 License plate recognition

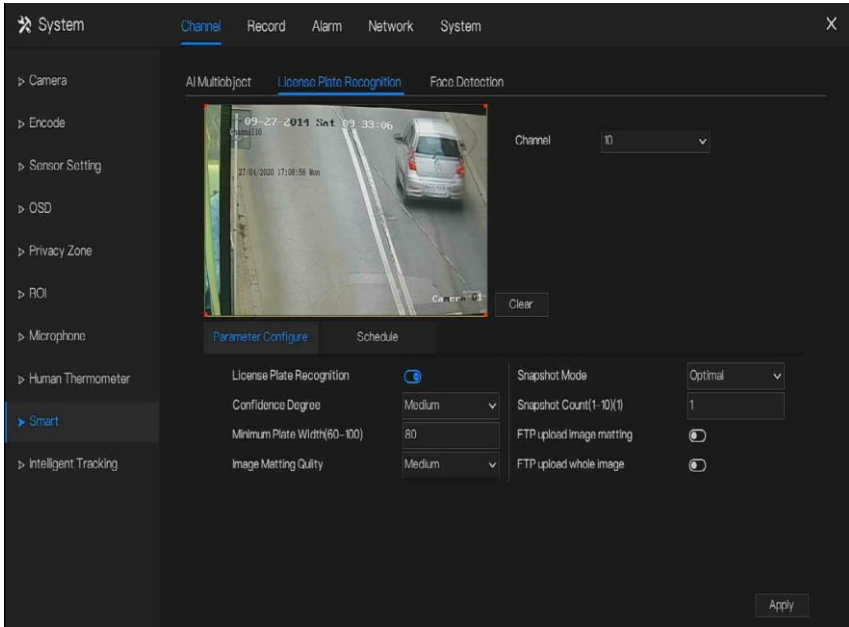


Table 7-8 License plate recognition

Function	Procedure	Description
Licence plate recognition	The camera will snap the face when someone appears in live video.	Enable
Confidence coefficient	The range of snapshot image, there are three types, such as high, mid and low. The higher the confidence, the better the image quality and the fewer snapshots.	Choose from drop-down list.
Minimum plate width (60-100 Pixel)	60-100 pixels, the smaller the pixel be set, the more plate will be captured, but it may be wrong.	Input a value ranges 60 to 100

Function	Procedure	Description
Image matting quality	The quality of snapshots, There are three modes can be chosen, such as low, mid and high.	Choose from drop-down list.
Snapshot mode	There are two modes can be chosen, such as timing, and optimal.	Choose from drop-down list.
Upload image interval(1-10 s)	At timing mode, set the interval of upload image.	Input a value ranges 1 to 10
Snapshot count (1)	At optimal mode, set the number of snapshot.	Input 1
FTP upload image matting	Configuration > Network Service > FTP , set FTP related parameters, the captured picture will be sent to the set FTP location	Enable
FTP upload whole image	Capture a picture and send a whole image.	Enable

7.3.10.3 Face Detection

Figure 7-24 Face detection

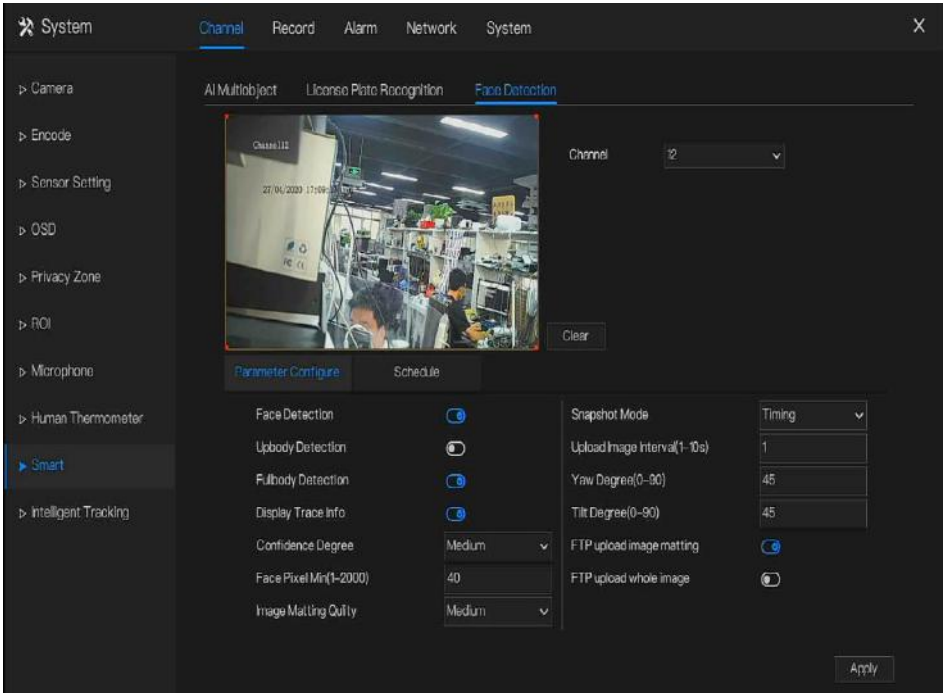


Table 7-9 Human face detection

Parameter	Description	Setting
Face detection	Detect face of human	[Setting method] Enable [Default value] On
Up body detection	Detect up body of human	[Setting method] Enable [Default value] OFF
Full body detection	Detect full body of human	[Setting method] Enable [Default value]

		OFF
Display trace	Display the information of tracing.	[Setting method] Enable
Confidence coefficient	Face detection sensitivity, the value range is high, medium, low, the larger the value is, the higher the sensitivity. The higher the sensitivity value is, the higher the detection rate will be, but the more false detection may occur, such as the false detection of the patterns on pedestrian clothes to adult faces.	[Setting method] Choose from drop -list [Default value] Medium
Face pixel min (1-2000)	When the pixel of the face in the image is less than the set value (the minimum pixel for face recognition), it is not captured.	[Setting method] Input a number from 1 to 2000 [Default value] 30
Face pixel max (1-2000)	When the pixel of the face in the image is more than the set value (the maximum pixel for face recognition), it is not captured.	[Setting method] Input a number from 1 to 2000 [Default value] 70
Image matting quality	The quality of snap image, There are three modes can be chosen, such as low, mid and high.	[Setting method] Choose from drop list. [Default value] Medium
Snapshot mode	There are two types, timing and	[Setting method]

UI System Setting

	optimal.	Choose from drop -list [Default value] Timing
Upload image interval	The snapshot mode is optimal, set the interval.	[Setting method] Input a number from 1 to 10 [Default value] 5
Snapshot count	At optimal mode, set the number of snapshots	[Setting method] Input 1
Yaw degree(0-90)	Both eyes appear on the screen, offset in the left and right direction	[Setting method] Input a number from 0 to 90 [Default value] 30
Tilt degree(0-90)	The face is deflected, and both eyes cannot appear in the picture.	[Setting method] Input a number from 0 to 90 [Default value] 30
FTP upload image matting	Configuration > Network Service > FTP , set FTP related parameters, the captured picture will be sent to the set FTP location	[Default value] Disable
FTP upload whole image	Capture a picture and send a whole image.	[Default value] Disable

7.3.11 Intelligent Tracking (Only for Some Model)

 **NOTE**

This function can only be used for high speed PTZ cameras.

The automatic target tracking function is that the dome camera can continuously track the moving target of the pre-made scene, and automatically adjusts the camera zoom focus according to the moving target distance, and the dome automatically returns to the preset scene when the moving target disappears.

Figure 7-25 Intelligent tracking

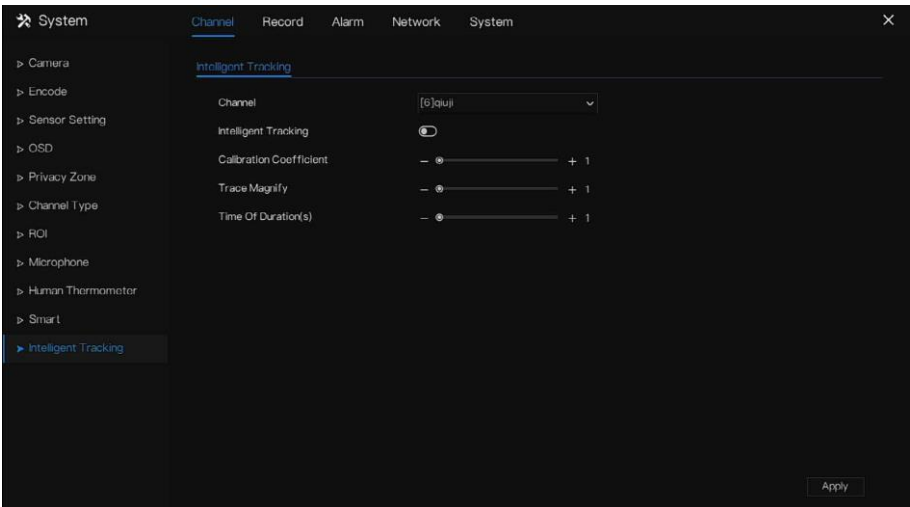


Table 7-10 Intelligent tracking parameters

Parameter	Description	Setting
Enable	Enable the button to enable the intelligent tracking	[How to set] Click Enable to enable. [Default value] OFF

UI System Setting

<p>Calibration Coefficient</p>	<p>It is equivalent to a control coefficient, and real-time tracking doubling rate nonlinear positive correlation, usually the higher the installation height, the greater the calibration coefficient value; it ranges from 1 to 30</p>	<p>[Setting method] Drag the slider. [Default value] 1</p>
<p>Trace Magnify</p>	<p>It is the value of lens zoom, it has a large influence on the real-time tracking magnification,</p>	<p>[Setting method] Drag the slider. [Default value] 7</p>
<p>Time of Duration</p>	<p>The maximum time of a tracking period, it ranges from 0 to 300 s.</p>	<p>[Setting method] Drag the slider. [Default value] 120</p>

7.4 Record Setting

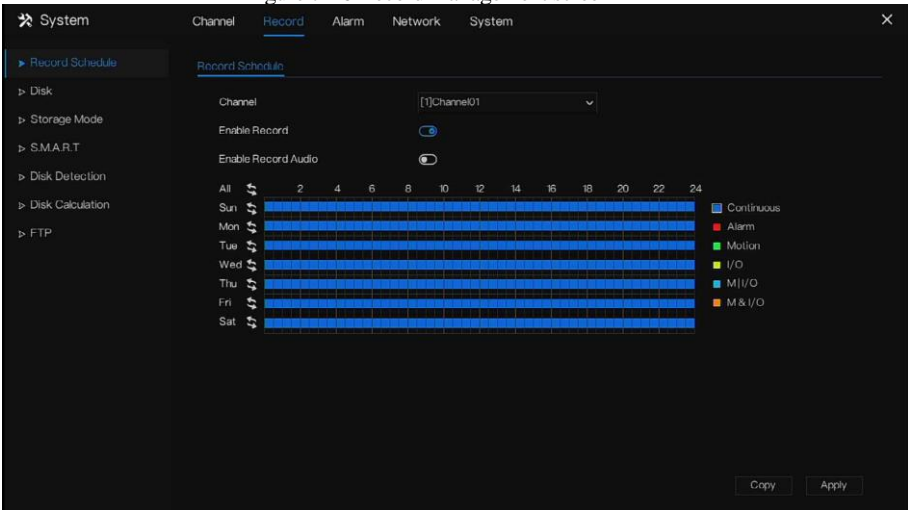
Set the **Record Schedule**, **Disk**, **Storage Mode**, **S.M.A.R.T**, **Disk Detection**, **Disk Calculation**, and **FTP**.

7.4.1 Record Schedule

Operation Description

Click **Record** in the main menu or click the record page of any function screen in the main menu to access the record schedule screen, as shown in Figure 7-26.

Figure 7-26 Record management screen



Operation Steps

Step 1 Select a channel from the drop-down list of channel option.

Step 2 Enable the record.


Step 3 Enable the record audio.


Step 4 Set the record schedule. The different alarm schedules are showing different colors, but for recording video only three colors show alarm information.




Method 1: Hold down the left mouse button, drag and release mouse to select the arming time within 00:00-24:00 from Monday to Sunday.

 **NOTE**

- When you select time by dragging the cursor, the cursor cannot move out of the time area. Otherwise, no time would be selected.
- The selected area is blue. The default schedule is **All**.
- Users can choose one alarm type to record, if the chosen alarm is happening at the setting time, it will record. So that it will using the disk effectively to avoid repeating useless recording.
- Users can set different alarms to record.

Method 2: Click  in the record schedule page to select whole day or whole week.

Step 5 Deleting record schedule: Click  again or inverse selection to delete the selected record schedule.

Step 6 Click  and select channels or tick **all**, then click  to apply the record management settings to selected channels , click  to save settings.

----End

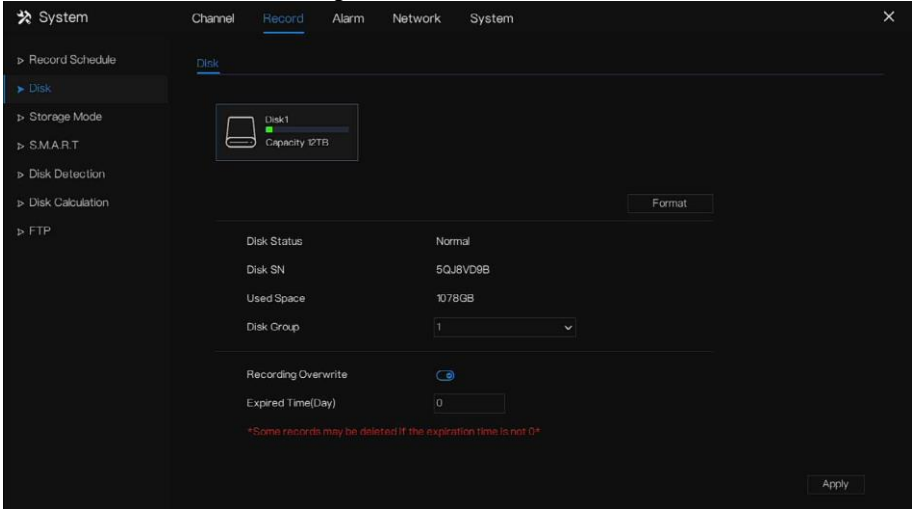
7.4.2 Disk

View the total capacity of disk, disk status, disk SN code and storage space of disk. You can format the disk and set record expiration manner.

Operation Description

Step 1 Click **Record** in the main menu or menu of the record screen and choose **Disk** to access the disk screen, as shown in Figure 7-27.

Figure 7-27 Disk screen



Step 2 Click **Format**. The message “Are you sure to format disk? Your data will be lost” is displaying.

Step 3 Choose the disk group, there are four groups.

Step 4 Click **OK**, and the disk would be formatted.

Step 5 Enable recording overwrite, the disk will be overwrite automatically.

Step 6 Record expiration setting. Select record expiration days from the drop-down list of record expiration. The expired time is not 0, the records will be deleted when the time is over the setting value.

Step 7 Click **Apply** to save the settings.

----End

7.4.3 Storage Mode

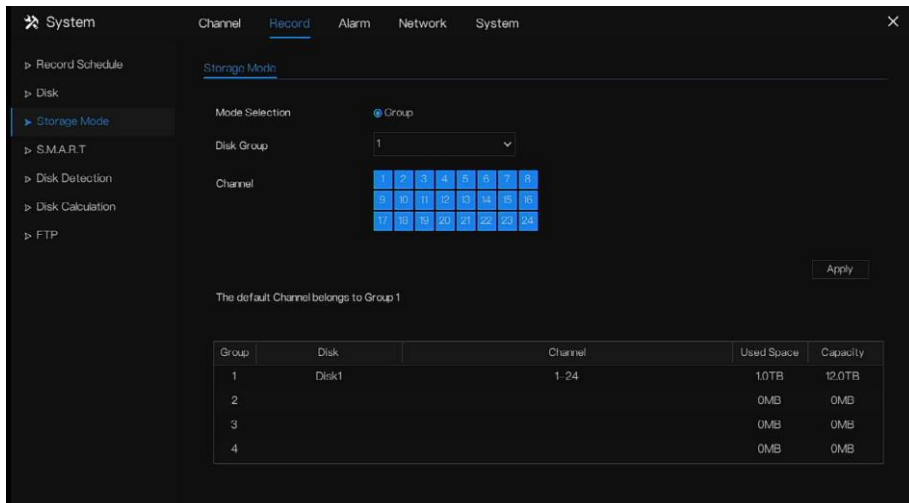
NOTE

Group is used for multiple disks models, if you want to manage disk quickly and easily, grouping accords to actual application scenarios.

UI System Setting

User is based on need to distribute the channels to different disk group, and use disk capacity reasonably, as shown in Figure 7-28.

Figure 7-28 Storage mode



Operation Steps

- Step 1 Choose the disk group.
- Step 2 Select the channel recorded to the disk group.
- Step 3 Click **Apply** to save the settings.
- Step 4 The group list will show the detail information.

NOTE

If the channels are not in list, it means DVR will not to record these channels, please make sure about all channels are in list.

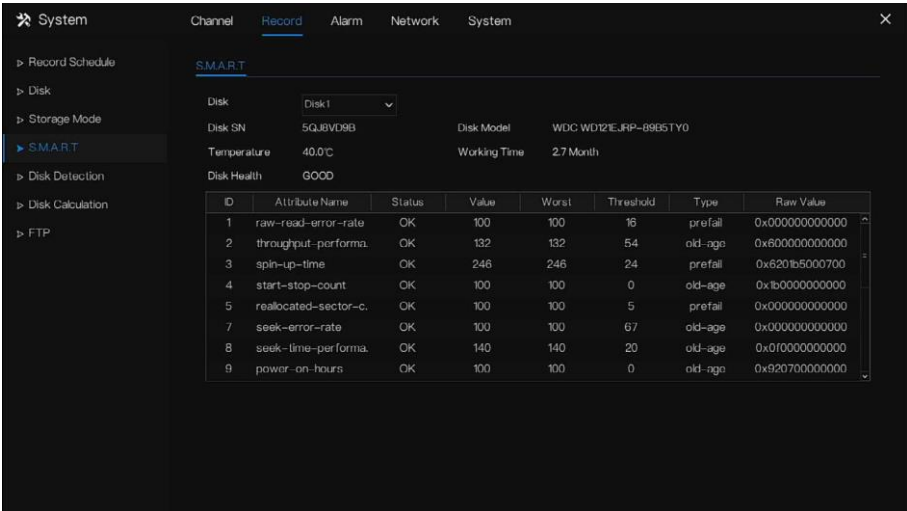
Choose number of channel number you should consider the capacity of disk group.

----End

7.4.4 S.M.A.R.T

S.M.A.R.T is Self-Monitoring Analysis and Reporting Technology, users can view the health of disk, as shown in Figure 7-29.

Figure 7-29 S.M.A.R.T

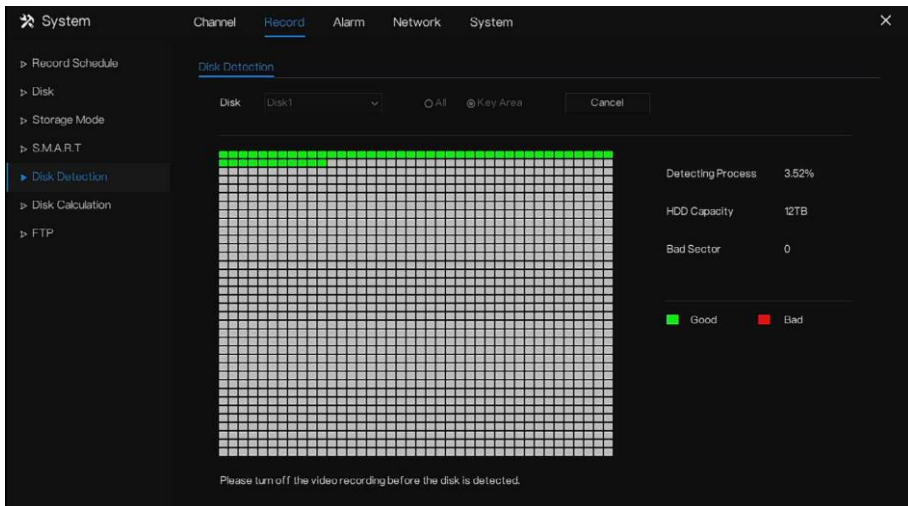


---End

7.4.5 Disk Detection

Before recording the video, users need to detect the disk to keep the data safety, as shown in Figure 7-30.

Figure 7-30 Disk Detection



Operation Steps

Step 1 Choose the disk from the drop-down list.

Step 2 Tick all or key to detect the disk. Detecting all need some time, and detecting key section maybe need a few minutes.

Step 3 Click **Scan** to scan the disk.

Step 4 Click **Cancel** to quit scanning, the pop-up window shows “Would you like to stop disk detection?”, click **OK** to quit.

Step 5 The disk analysis will show on this page.

NOTE

The green block means good, the red block means bad, if the red blocks are too much or at key section, please change the disk immediately

Please turn off the video recording before the disk is detected, otherwise the recording of video maybe lost.

----**End**

7.4.6 Disk Calculation

Users can calculate the usage of disk, so that he can set the storage strategy reasonably, as shown in Figure 7-31.

There are two modes can be set, computing capacity and computing time

Figure 7-31 Disk calculation of capacity

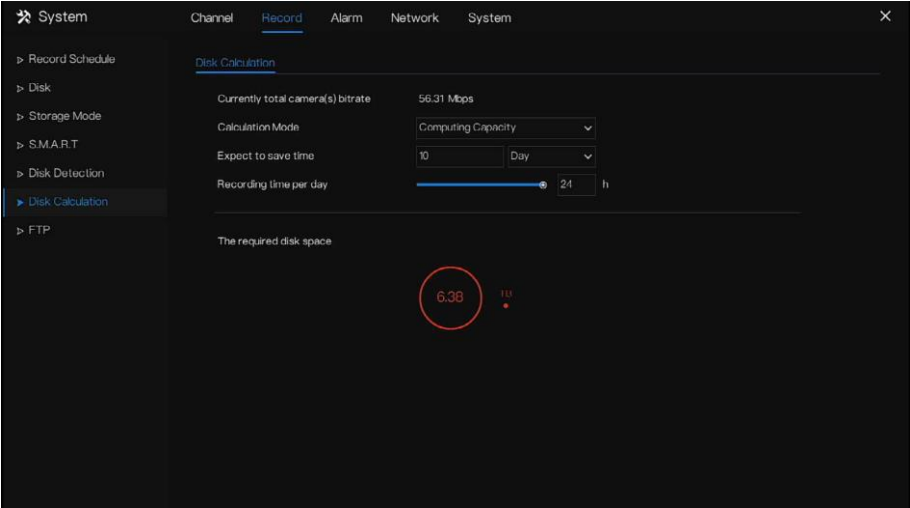
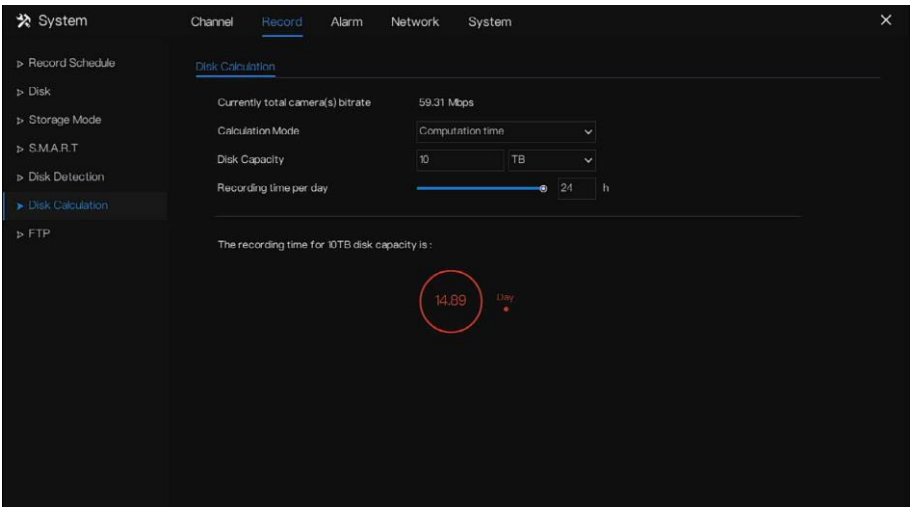


Figure 7-32 Disk calculation of time

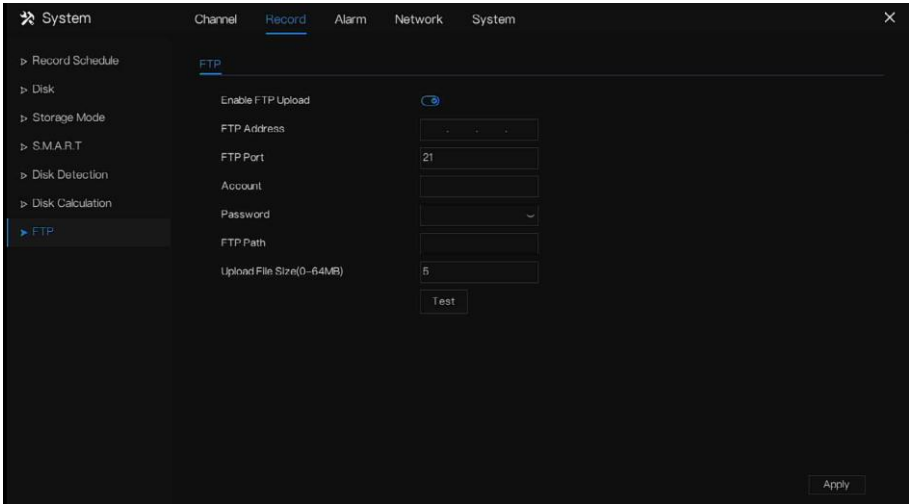


----End

7.4.7 FTP

Enable FTP upload, when the alarm is happens, users can linkage the **FTP upload** to save the alarm recordings.

Figure 7-33 FTP



Step 1 Enable the FTP upload.

Step 2 Input the FTP address and port.

Step 3 Input the account, password and FTP path.

Step 4 Set the upload file size, it ranges from 0 to 64 MB.

Step 5 Click “**Test**” to test the parameters, if test successfully, click “**Apply**” to save the settings.

----**End**

7.5 Alarm Management

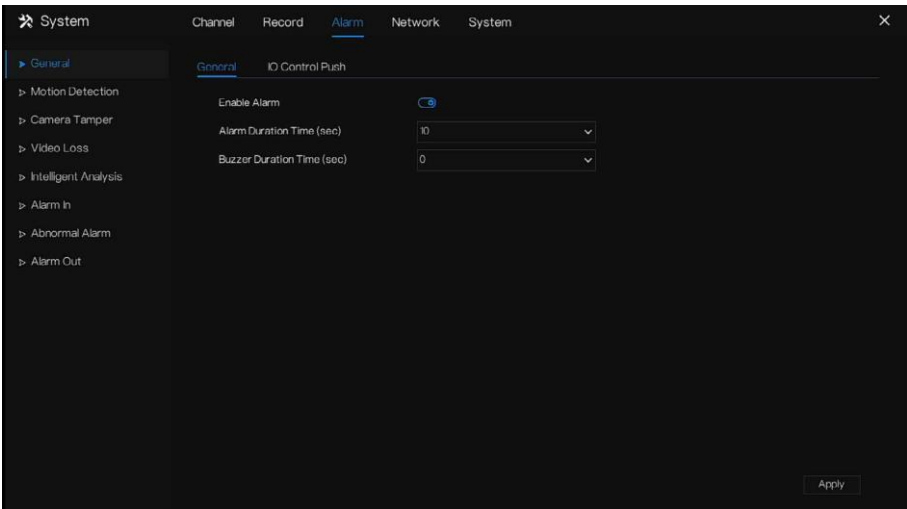
Set the **General alarm information, Motion Detection, Camera Tamper, Video Loss, Intelligent Analysis, Alarm In, Abnormal Alarm** and **Alarm Out** in alarm management screen.

7.5.1 General

7.5.1.1 General

Step 1 Click **Alarm** in the main menu (or click the alarm page of any function screen in the main menu) to access the alarm management screen, as shown in Figure 7-34.

Figure 7-34 Alarm management screen



Step 2 Enable the Enable alarm button.

Step 3 Select a value from the drop-down list of duration time.

Step 4 Click **Apply** to save alarm settings.

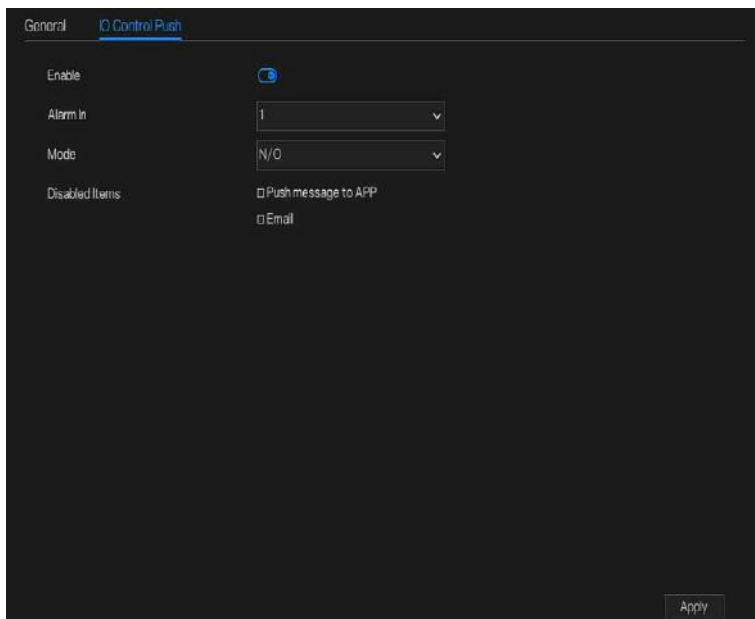
----End

7.5.1.2 IO control push

If you select normally open and tick the disabled items, alarm input 1 will not push the message when it is normally open. Only when the alarm in 1 is in the normally closed, it can push an alarm message.

Step 1 Enable the IO control push, as shown in Figure 7-35.

Figure 7-35 IO control push interface



Step 2 Choose one alarm in and mode(N/C, N/O).

Step 3 Tick the disable items, click “Apply” to save settings.

----End

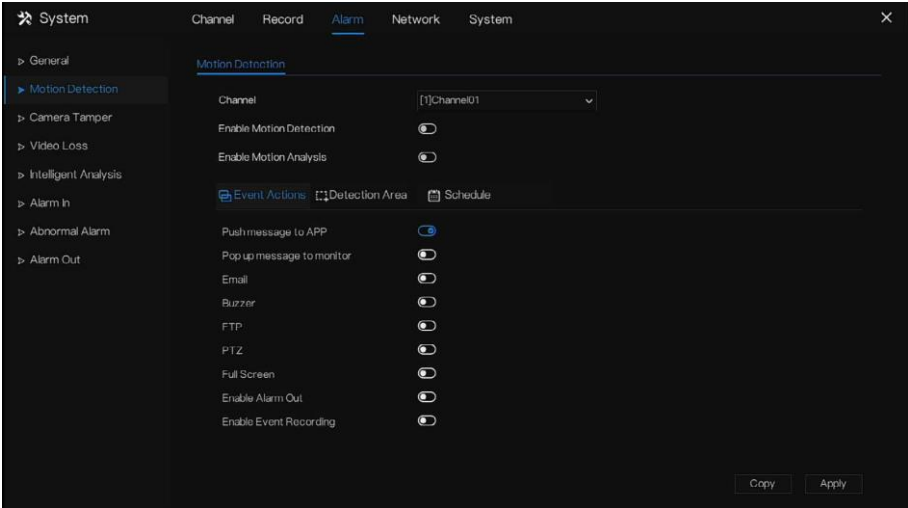
7.5.2 Motion Detection

The DVR will send motion detection alarm while something moving in the specific view of camera.


Operation Description

Step 1 Click **Motion Detection** in the main menu or menu of the alarm management screen and choose **Motion Detection** to access the Motion Detection screen, as shown in Figure 7-36.

Figure 7-36 Motion detection screen



Step 2 Select a channel from the drop-down list of channel.

Step 3 Click  to enable motion detection.

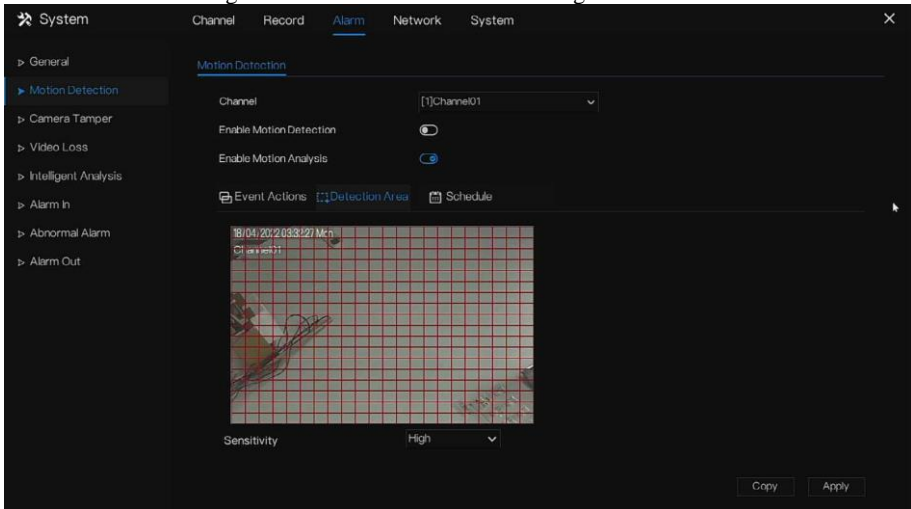
Step 4 Enable motion analysis, if the camera detects the motion action, the area will be block.

Step 5 Enable the Event actions including: Push message to App, Pop up message to monitor,

Email, Buzzer, FTP, PTZ, Full screen, Enable alarm out and Enable event recording.

Step 6 Click Area page to access the motion detection area setting, as shown in Figure 7-37.

Figure 7-37 Motion detection area setting screen

**Area :**

1. Hold down and drag the left mouse button to draw a motion detection area.
2. Select a value from the drop-down list next to **Sensitivity**.

Step 7 Click **Schedule** page to access the schedule screen. For details, please see 7.4.1 Record Schedule Set the record schedule.

Step 8 Click **Copy** and select channels or tick **all**, then click **OK** to apply the motion detection settings to cameras in selected channels, click **Apply** to save motion detection alarm settings.

 **NOTE**

Click to select the motion detection area, and double click to cancel.

The default area is whole area.

If you leave the page without applying, the tip “Do you want to save?” would show. Click **Save** to save the settings. Click cancel to quit the settings.

----End

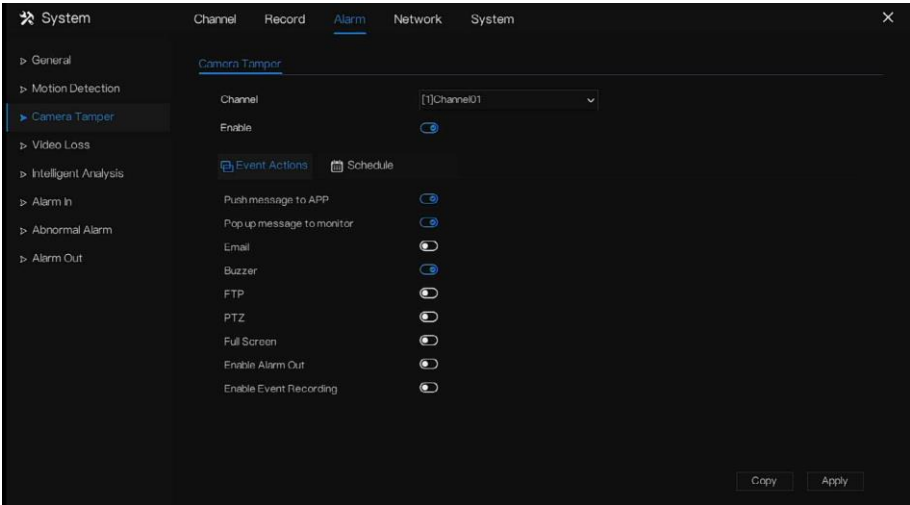
7.5.3 Camera Tamper

The camera is blocked by something, and live video cannot clearly monitor the scene, that will trigger camera tamper alarm.

Operation Description


Click **Camera Tamper** in the main menu or menu of the alarm management screen and choose **Camera Tamper** to access the video loss screen, as shown in Figure 7-38.

Figure 7-38 Camera Tamper screen



Operation Steps



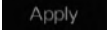
Step 1 Select a channel from the drop-down list of channel.

Step 2 Click  to enable camera tamper alarm.

Step 3 Enable the Event actions including: **Push message to App, Pop up message to monitor, Email, Buzzer, FTP, PTZ, Full screen, Enable alarm out and Enable event recording.**

Step 4 Click Schedule page to access the schedule screen.

Step 5 For details, please refer to *7.4.1 Record Schedule Set the record schedule.*

Step 6 Click  and select a channel, then click  to apply the parameter settings to cameras in selected channels, click  to save video loss settings.

---End

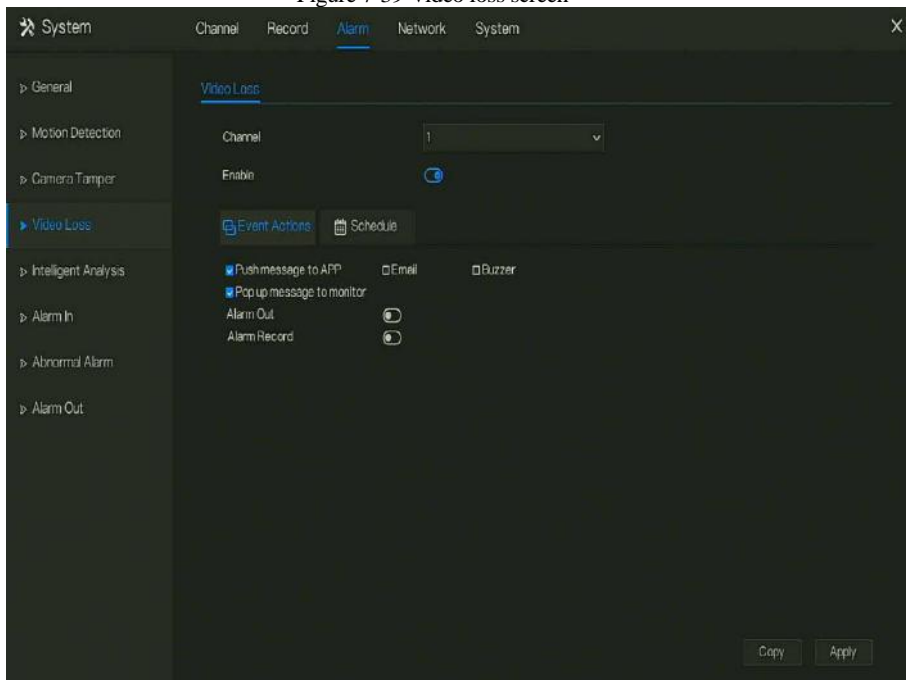
7.5.4 Video Loss

If the camera is disconnected from the DVR, a video loss alarm will be triggered.

Operation Description


Click **Video Loss** in the main menu or menu of the alarm management screen and choose **video Loss** to access the video loss screen, as shown in Figure 7-39.

Figure 7-39 Video loss screen



Operation Steps



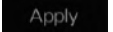
Step 1 Select a channel from the drop-down list of channel.

Step 2 Click  to enable video loss alarm.

Step 3 Enable the Event actions including: **Push message to App, Pop up message to monitor, Email, Buzzer, FTP, PTZ, Enable alarm out** and **Enable event recording**.

Step 4 Click Schedule page to access the schedule screen.

Step 5 For details, please refer to *7.4.1 Record Schedule Set the record schedule*.

Step 6 Click  and select a channel, then click  to apply the parameter settings to cameras in selected channels, click  to save video loss settings.

---End

7.5.5 Intelligent Analysis

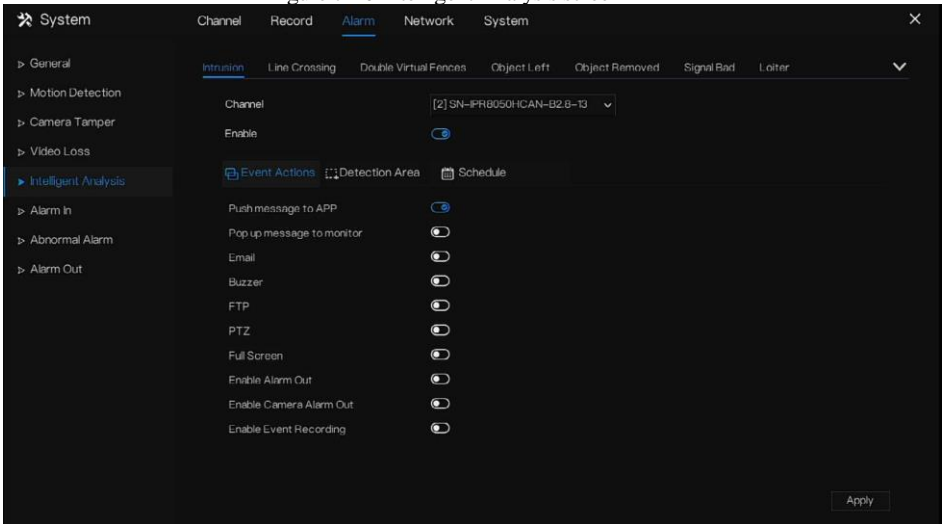
NOTE

This function can only be used for IP cameras. T Different cameras may have different types of intelligent analysis, please refer to the actual product.

Operation Description


Step 1 Click **Intelligent Analysis** in the main menu or menu of the alarm management screen and choose **Intelligent Analysis** to access intelligent analysis screen, as shown in Figure 7-40.

Figure 7-40 Intelligent Analysis screen



Step 2 Select one action to set the alarm.(perimeter, single virtual fence, double virtual fences, object left, signal bad, loiter, multi loiter. For some cameras, **Abnormal Speed, Converse, Illegal Parking, Advanced** can be set.

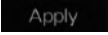
Step 3 Select a channel from the drop-down list of channel.

Step 4 Click  to enable intelligent analysis alarm.

Step 5 Enable the event actions including: **Push message to App, Pop up message to monitor, Email, Buzzer, FTP, PTZ, Full screen, Enable alarm out** and **Enable event recording**.

Step 6 Click Schedule page to access the schedule screen.

Step 7 For details, please refer to *7.4.1 Record Schedule Set the record schedule.*

Step 8 Click  to save video loss settings.

----End

7.5.6 Alarm In (Only for Some Models)

There are two types alarm in, one is the DVR's alarm in, the other is the camera channel's alarm in.



NOTE

Some cameras may not have the function, please refer to actual products.

Operation Description

Click **Alarm in** in the main menu or menu of the alarm management screen and choose **Alarm in** to access the alarm in screen, as shown in Figure 7-41.

Figure 7-41 Alarm in screen

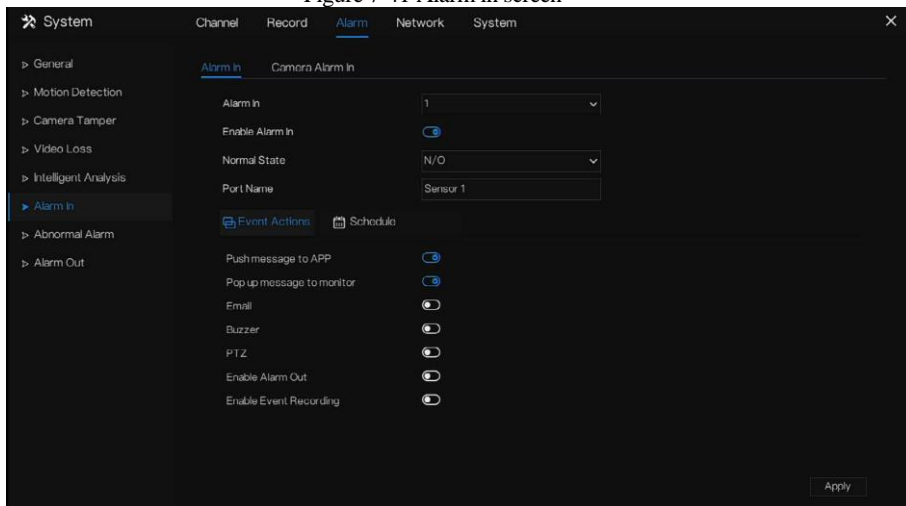
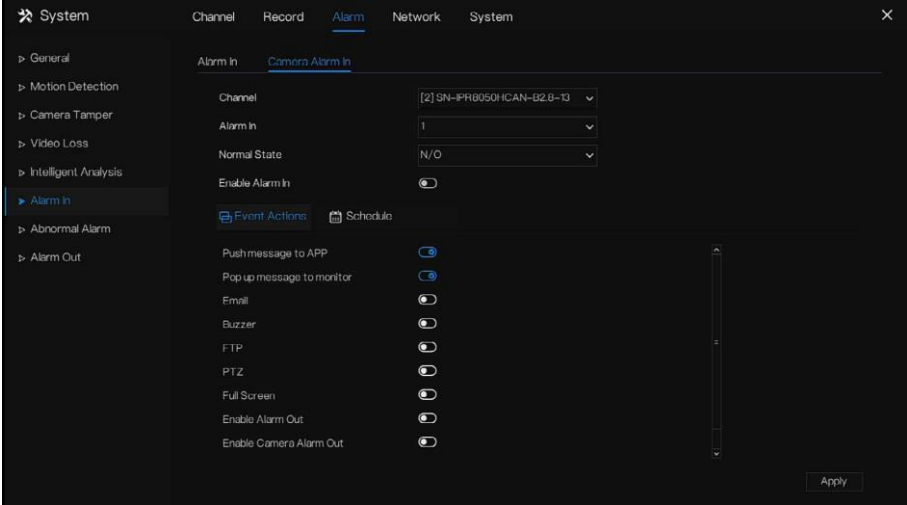



Figure 7-42 Channel alarm in screen



Operation Steps

Step 1 Select a channel in **alarm in**.

Step 2 Click  to enable or disable the functions.

Step 3 Select **Alarm type** from the drop-down list.

NOTE

NC: Normal close the alarm

NO: Normal open the alarm

Step 4 Set **name**.

Step 5 Enable the event actions including: **Push message to App, Pop up message to monitor, Email, Buzzer, FTP, PTZ, Full screen, Enable alarm out and Enable event recording.**

Step 6 Click **Schedule** page to access the schedule screen. For details, please see *7.4.1 Record Schedule Set the record schedule.*

Step 7 Click  to save alarm in settings.

----End

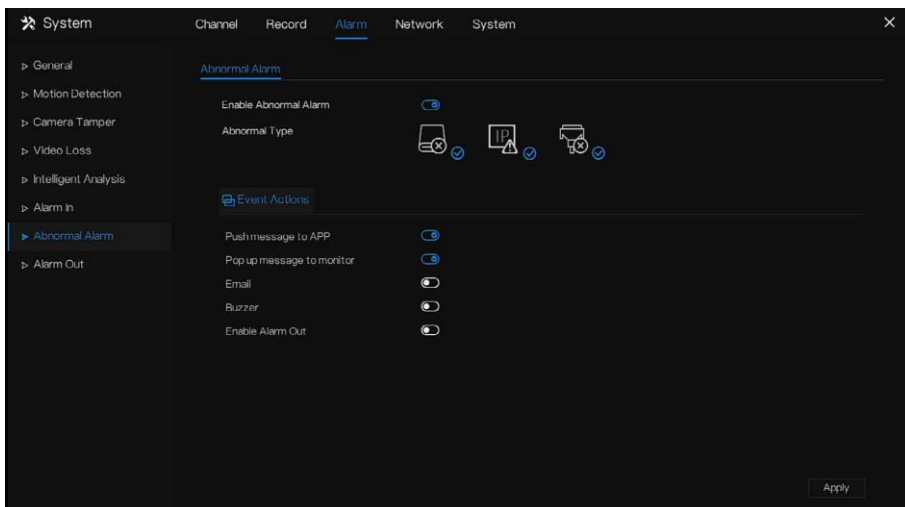
7.5.7 Abnormal Alarm

Camera tamper means that the DVR would send alarm notification while objects cover IP cameras.

Operation Description

Step 1 Click **Abnormal Alarm** in the main menu or menu of the alarm management screen and choose **Abnormal Alarm** to access the abnormal alarm screen, as shown in Figure 7-43.

Figure 7-43 Abnormal alarm screen



Operation Steps

Step 2 Tick the abnormal actions.

Step 3 Enable the event actions include: Push message to App, Pop up message to monitor, Email, Buzzer and Enable alarm out.

Step 4 Click **Apply** to save abnormal alarm settings.

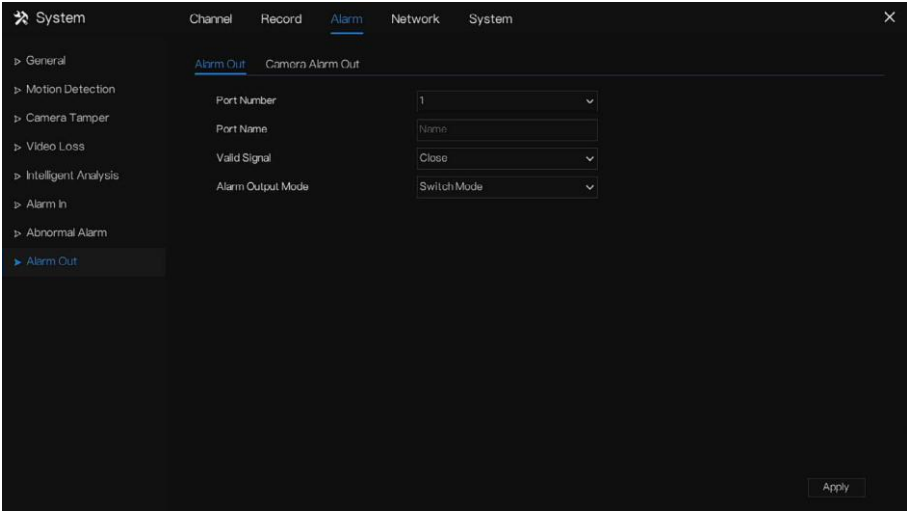
----**End**

7.5.8 Alarm Out

7.5.8.1 Alarm Out

Choose one output ID as the output interface, as shown in Figure 7-44. Choose the **Valid Signal** and **Alarm Output Mode** according to the connection of external alarm devices.

Figure 7-44 Alarm out screen



7.5.8.2 Camera Alarm out

 **NOTE**

This function is only used for IP cameras.

Figure 7-45 Camera alarm out

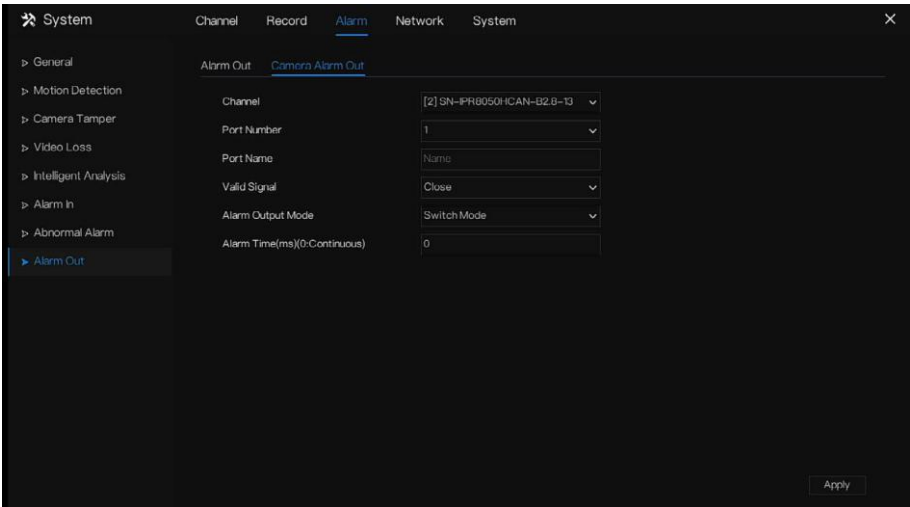


Table 7-11 Camera alarm out parameters

Parameter	Description	Setting
Channel	Choose one channel to set, the camera should have the alarm out port.	
Alarm Output	ID of the alarm output channel. NOTE The number of alarm output channels depends on the device model.	[Setting method] Select a value from the drop-down list box. [Default value] 1
Name	Alarm output channel name.	[Value range] 0 to 32 bytes
Valid Signal	The options are as follows: <ul style="list-style-type: none"> • Close: An alarm is generated when an external alarm signal is received. • Open: An alarm is generated when no external alarm signal is received. 	[Setting method] Select a value from the drop-down list box. [Default value] Close

Parameter	Description	Setting
Alarm Output Mode	<p>When the device receives I/O alarm signals, the device sends the alarm information to an external alarm device in the mode specified by this parameter. The options include the switch mode and pulse mode.</p> <p>NOTE</p> <ul style="list-style-type: none"> • If the switch mode is used, the alarm frequency of the device must be the same as that of the external alarm device. • If the pulse mode is used, the alarm frequency of the external alarm device can be configured. 	<p>[Setting method]</p> <p>Select a value from the drop-down list box.</p> <p>[Default value]</p> <p>Switch Mode</p>
Alarm Time(ms) (0: Continuous)	<p>Alarm output duration. The value 0 indicates that the alarm remains continuous valid.</p>	<p>[Setting method]</p> <p>Enter a value manually.</p> <p>[Default value]</p> <p>0</p> <p>[Value range]</p> <p>0 to 86400 seconds</p>
Manual Control	Control the alarm output.	N/A

----End

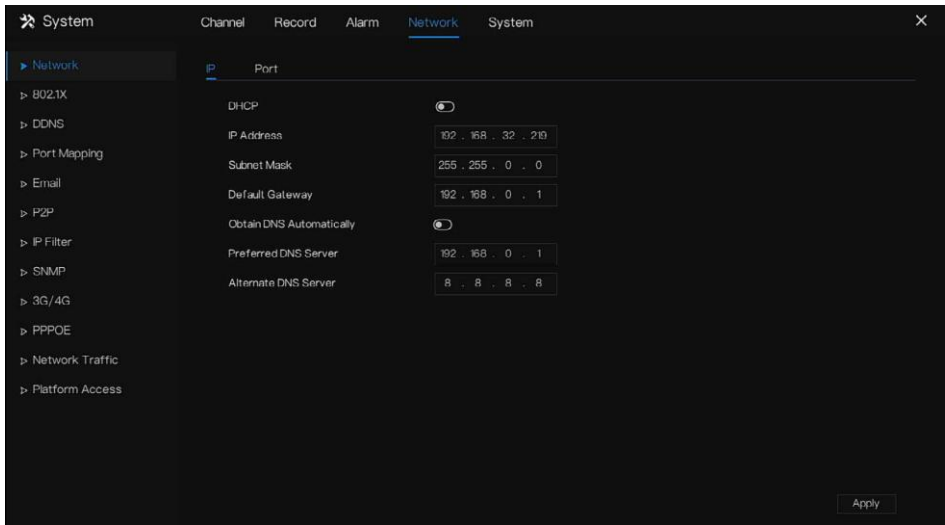
7.6 Network Management

Set the **Network Parameter**, **802.1X**, **DDNS**, **E-mail**, **Port Mapping**, **P2P**, **IP Filter**, **3G/4G**, **PPPOE**, **Network Traffic**, **Platform Access** or **WiFi** in the network management screen.

Operation Description

Step 1 Click **Network** in the main menu (or click the network page of any function screen in the main menu) to access the network management screen, as shown in Figure 7-46.

Figure 7-46 Network management screen




7.6.1 Network


Set **DHCP** and **DNS** manually or automatically.

7.6.1.1 IP


Operation Steps

Step 1 Click  next to **DHCP** to enable or disable the function of automatically getting an IP address. The function is disabled by default.

Step 2 If the function is disabled, click input boxes next to **IP**, **Subnet mask**, and **Gateway** to set the parameters as required.

Step 3 Click  next to **Obtain DNS Automatically** to enable or disable the function of automatically getting a DNS address. The function is enabled by default.

Step 4 If the function is disabled, click input boxes next to **DNS 1(default 192.168.0.1)** and **DNS 2(default 8.8.8.8)**, delete the original address, and enter a new address.

Step 5 Click  to save IP settings.

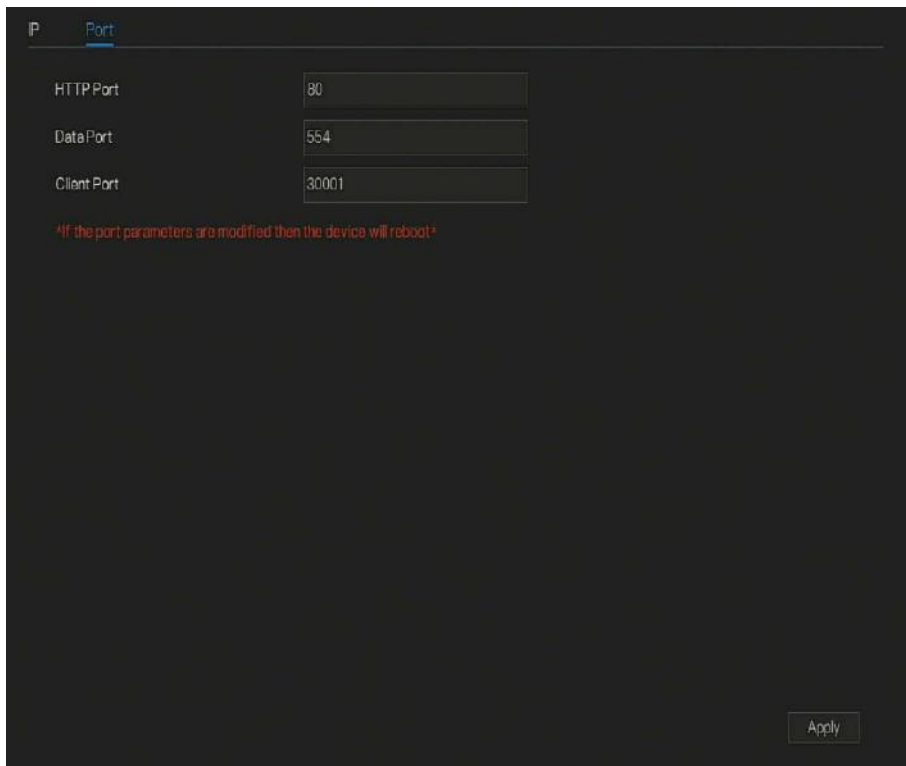
----End

7.6.1.2 Port

Operation Steps

Step 1 Click **Port** page to access the port setting screen, as shown in Figure 7-47.

Figure 7-47 Port setting screen




Step 2 Set the web port, data port and client port.

Step 3 Click  to save port settings.

----End

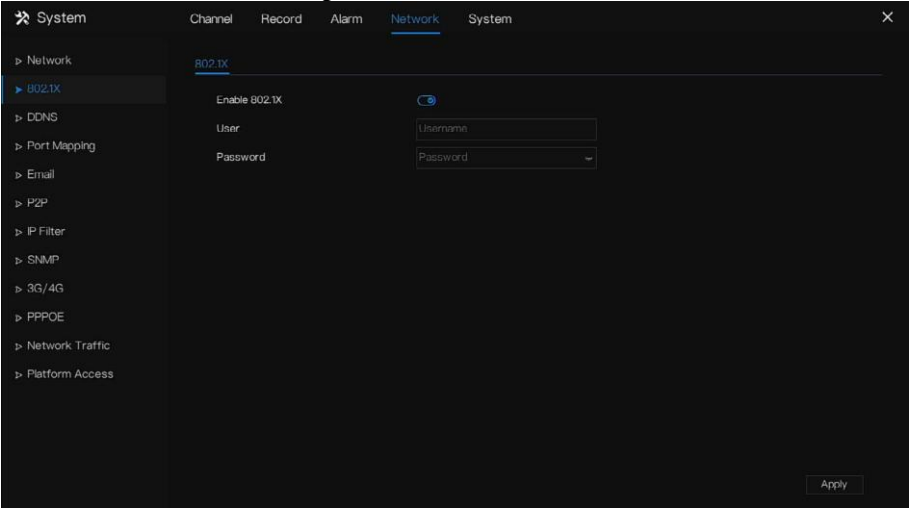
7.6.2 802.1 X

Operation Steps

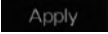
Step 1 Click  next to **802.1 X** to enable or disable the function, as shown in Figure 7-48.

The default is disabled.

Figure 7-48 802.1X screen



Step 2 Enter the user and password of 802.1X, the account is created by the user.

Step 3 Click  to save the settings. The visitor who view the DVR need to enter the account for authentication.

7.6.3 DDNS

Please make sure the specified camera is connected to the Internet, and obtain the user name and password for logging into the dynamic domain name system (DDNS) from the server.

Operation Steps

Step 1 Click **DDNS** in the main menu or menu of the network management screen and choose **DDNS** to access the DDNS screen.


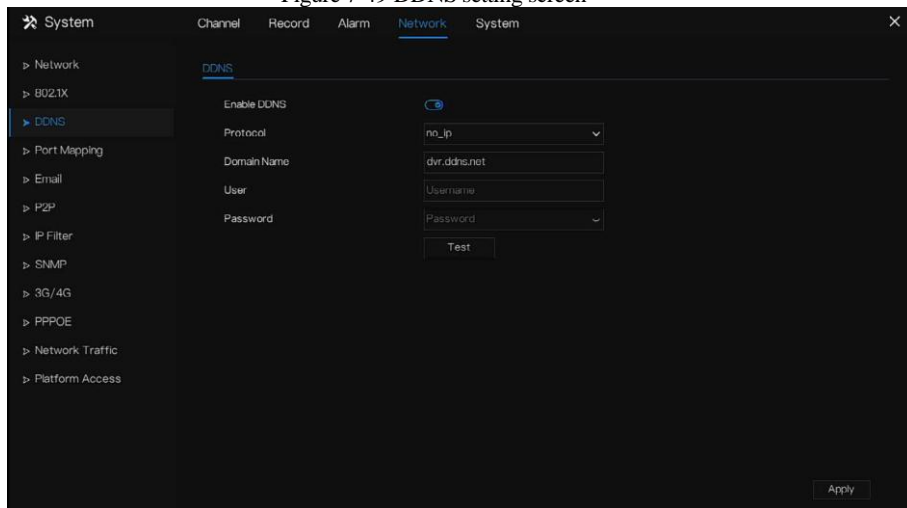
Step 2 Click  next to **Enable** to enable the DDNS function. It is disabled by default, as shown in Figure 7-49.

Figure 7-49 DDNS setting screen



Step 3 Select a required value from the protocol drop-down list.

Step 4 Set a domain name, input username and password.

Step 5 Click **Test** to check the domain name.

Step 6 Click **Apply** to save DDNS network settings

NOTE

An external network can access the DVR via an address in the DDNS settings.

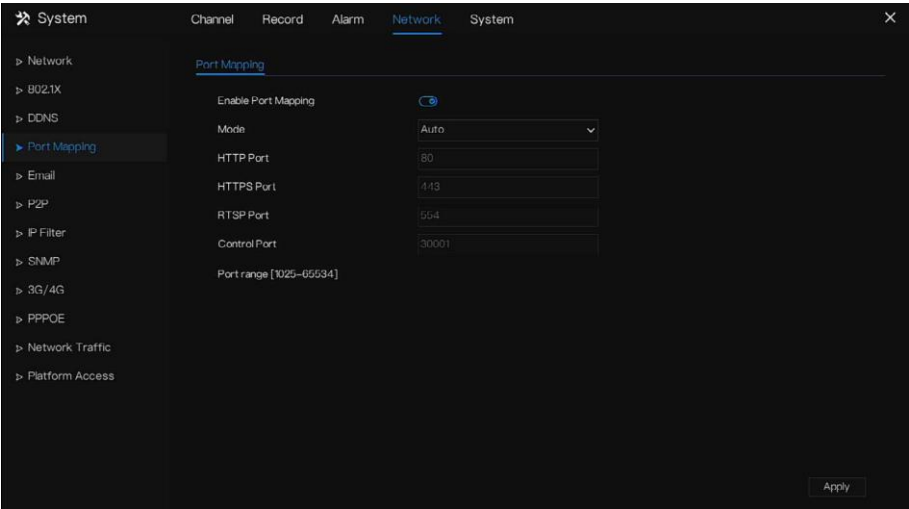
----End

7.6.4 Port Mapping

Operation Steps

Step 1 Click **Port Mapping** in the main menu or menu of the network management screen and choose **Port Mapping** to access the port mapping screen, as shown in Figure 7-51.

Figure 7-50 Port mapping setting screen



Step 2 Select UPnP enable type.

Step 3 Manual UPnP: input HTTP port, HTTPS port, RSTP port and Control Port manually.

Step 4 Auto Port Mapping: The device obtain the port automatically.

Step 5 Click **Apply** to save settings.

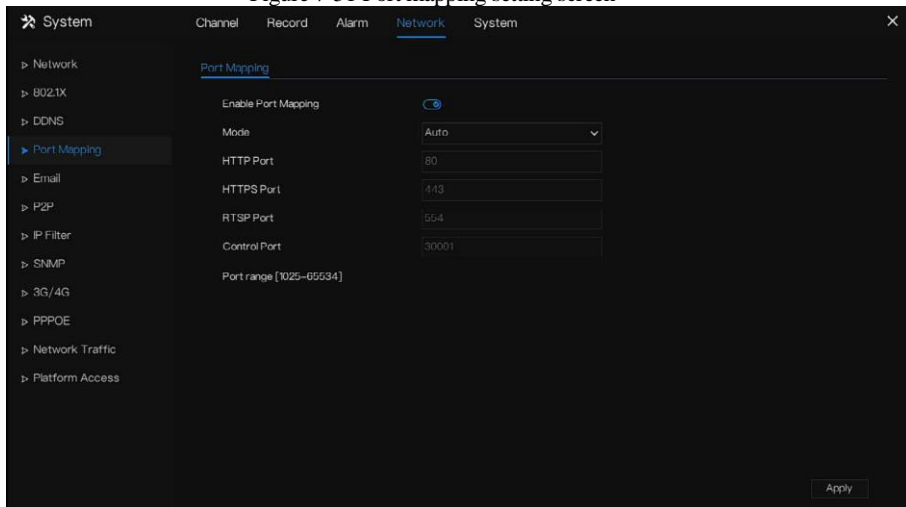
----End

7.6.5 Port Mapping

Operation Steps

Step 1 Click **Port Mapping** in the main menu or menu of the network management screen and choose **Port Mapping** to access the port mapping screen, as shown in Figure 7-51.

Figure 7-51 Port mapping setting screen



Step 2 Select Port Mapping enable type.

Step 3 Manual Port Mapping: input HTTP port, HTTPS port, RTSP port and Control port manually. Port range is 1025-65534.

Step 4 Auto Port Mapping: The device obtain the port automatically.

Step 5 Click **Apply** to save settings.

----End

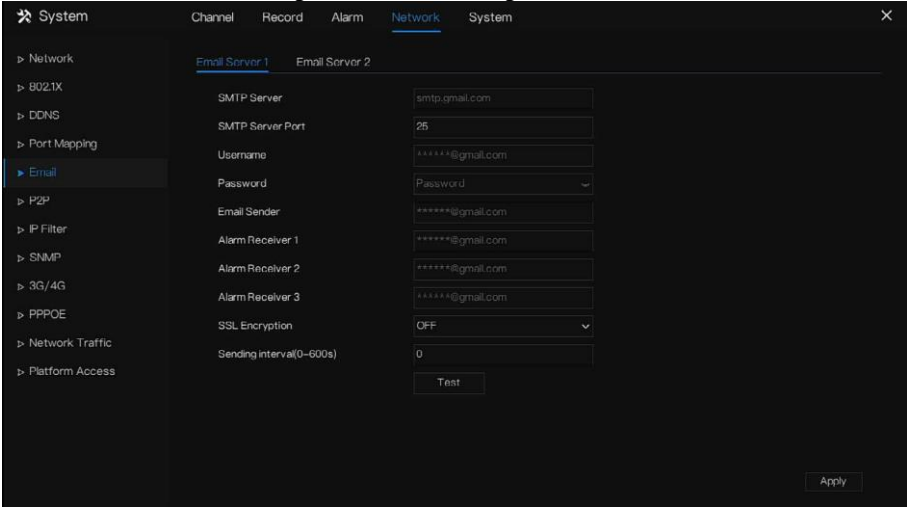
7.6.6 Email

If the simple mail transfer protocol (SMTP) function is enabled, the device automatically sends alarm information to specified email addresses when an alarm is generated.

Operation Steps

Step 1 Click **Email** in the main menu or menu of the network management screen and choose **Email** to access the Email screen, as shown in Figure 7-52.

Figure 7-52 E-mail setting screen



Step 2 Set SMTP server and SMTP server port manually.

Step 3 Input E-mail sender, user name and password manually.

Step 4 Set E-mail for receiving the alarm. the message “**Mail has been sent, please check**” is displaying. Open the mail, if the verification code is received, that shows the E-mail is set successfully.

Step 5 Set E-mail for retrieving the password. the message “Mail has been sent, please check” is displaying. Open the mail, if the verification code is received, that shows the E-mail is set successfully.

Step 6 Set SSL encryption for encrypting mail or not.

Step 7 Click **Apply** to save settings. You can set two servers to send and receive the alarm information.

----End

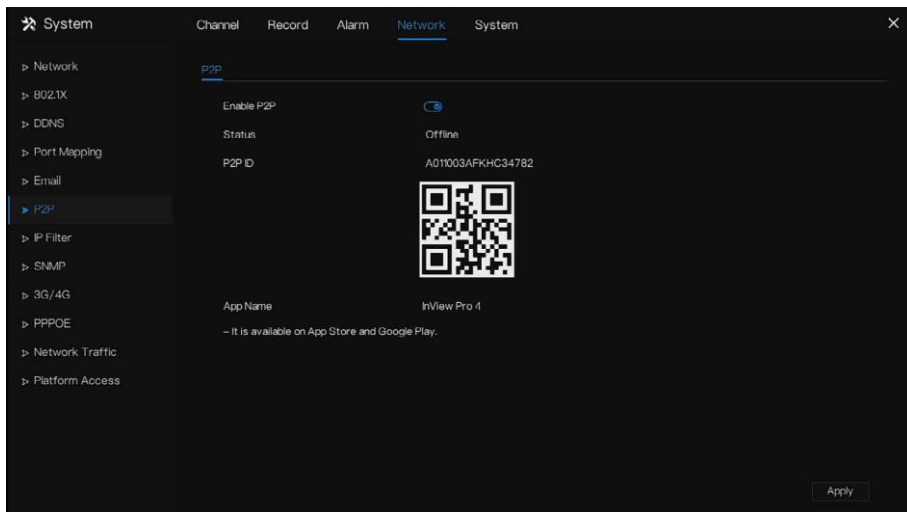
7.6.7 P2P


Show the UUID code and set the P2P status of the device.


Operation Steps

Step 1 Click **P2P** in the main menu or menu of the network management screen and choose **P2P** to access the P2P screen, as shown in Figure 7-53.

Figure 7-53 P2P screen



Step 2 Click  to enable the P2P function.

Step 3 Click  to save P2P network settings or click **Cancel** to cancel settings.

Step 4 After the **Inview Pro 4** is installed in mobile phone, run the APP and scan the QR to add and access the DVR when the device is online.

----End

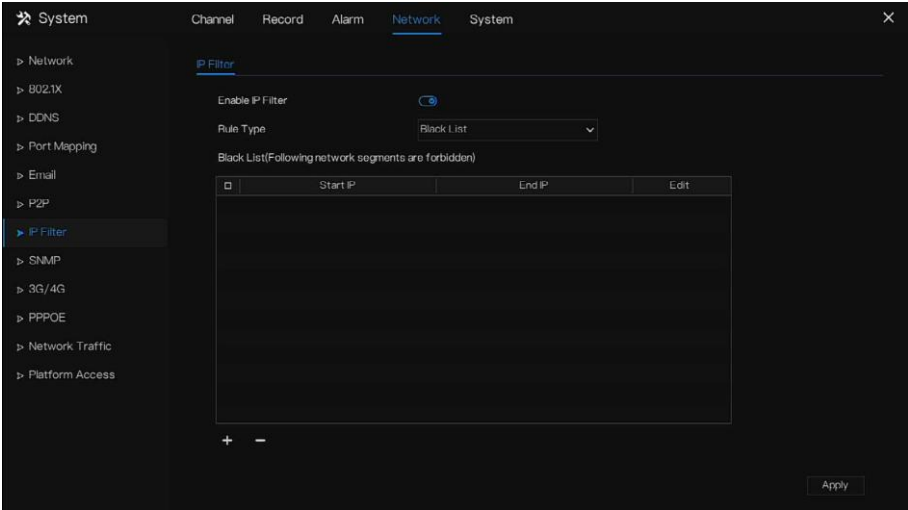
7.6.8 IP Filter

Set the IP address in specified network segment to allow or prohibit access.

Operation Steps

Step 1 Click **IP Filter** in the main menu or menu of the network management screen and choose **IP Filter** to access the IP filter screen, as shown in Figure 7-54.

Figure 7-54 IP Filter setting screen

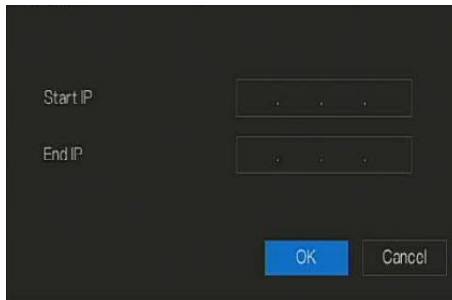


Step 2 Click  next to **IP Filter** to enable the function of IP Filter.


Step 3 Select black list or white list drop-down list.

Step 4 Click  to set black & white list, The IP segment screen is as show in Figure 7-55.

Figure 7-55 IP Address Segment screen



Step 5 Enter values of start IP address, end IP address.

Step 6 Click . The system saves the settings. The black and white lists IP segment listed in the black (white) list.

 **NOTE**

Black list: A list of IP addresses that are regarded as unacceptable or untrustworthy and should be excluded or avoided.

White list: A list of IP addresses considered to be acceptable or trustworthy.

Select a name in the list and click **Delete** to delete the name from the list.

Select a name in the list and click **Edit** to edit the name in the list.

Only one rule type is available, and the last rule type set is efficient.

----End

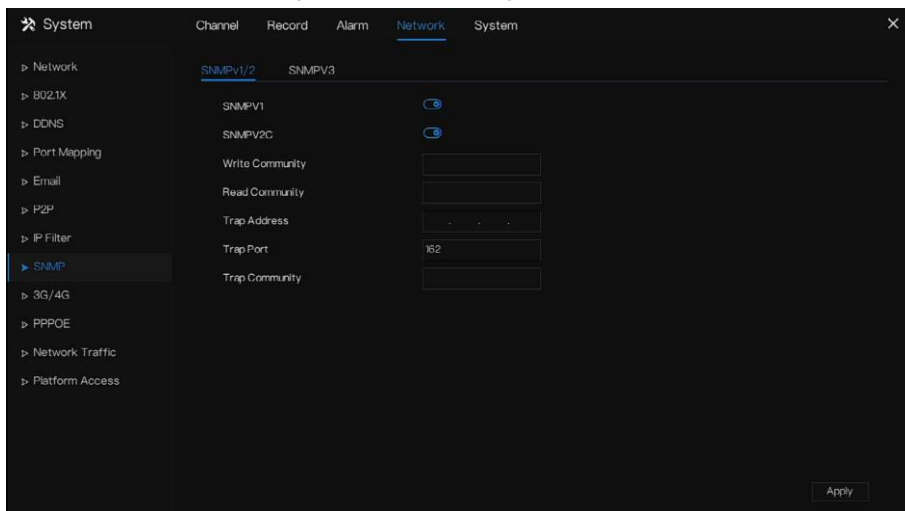
7.6.9 SNMP

There are three versions of simple network management protocol at interface.

Operation Steps

Step 1 Click **IP Filter** in the main menu or menu of the network management screen and choose **IP Filter** to access the IP filter screen, as shown in Figure 7-56.

Figure 7-56 SNMP settings screen

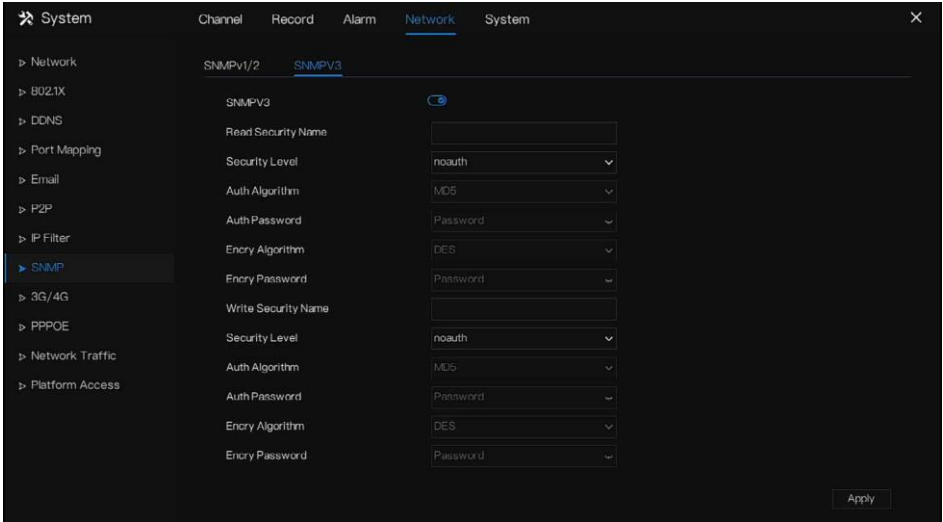


Step 2 Click next to **SNMPV 1** to enable the function . The interface is shown as Figure 7-57.

Figure 7-57 SNMPV 1/2 interface



Figure 7-58 SNMPV3



Step 3 Input the parameters of protocol.

Step 4 Click **Apply** to save settings or click **Cancel** to cancel settings.

----End

7.6.10 3G/4G

The DVR can be connected to data network by a modem.

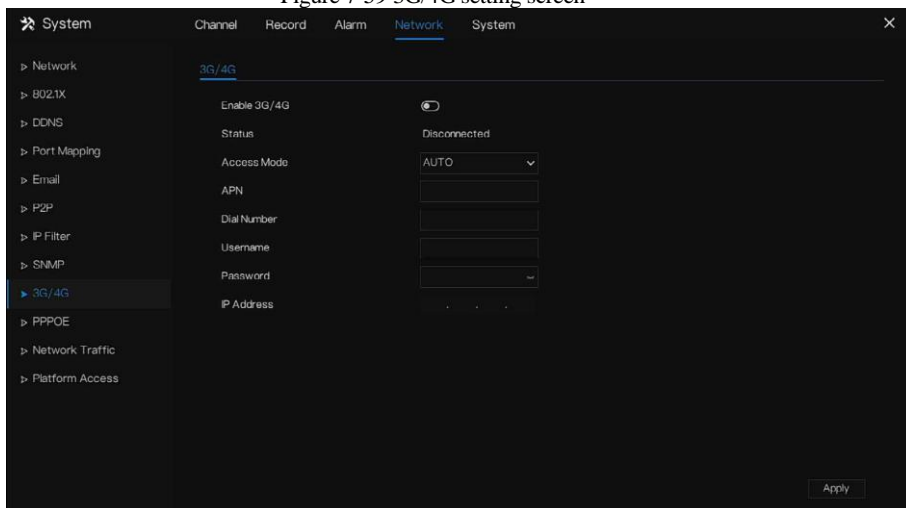
NOTE

Some devices may not have the function.

Operation Steps

Step 1 Plug the modem to DVR, and enable the 3G/4G function, as shown in Figure 7-59.

Figure 7-59 3G/4G setting screen



Step 2 After successful connection, set other parameters..

Step 3 Choose access mode, the default is AUTO. There are five modes can be chosen, such as **AUTO, LTE, TD-SCDMA, WCDMA, GSM/GPRS.**

Step 4 Input the APN, dial number, username, password, IP address. At auto mode, all these parameters can be obtained automatically.

Step 5 Click **Apply** to save settings.



NOTE

Modify the access mode, if it is all disconnected in five minutes, please unplug the modem to restart the modem immediately.

Users are familiar with the relevant network (different parameters for difference service providers) and modem information before manually switching to other modes. It is recommended to select **Auto** as the access mode.

When using the 3G / 4G function, you need to manually close the PPPOE function. Only one function can be used at a time.

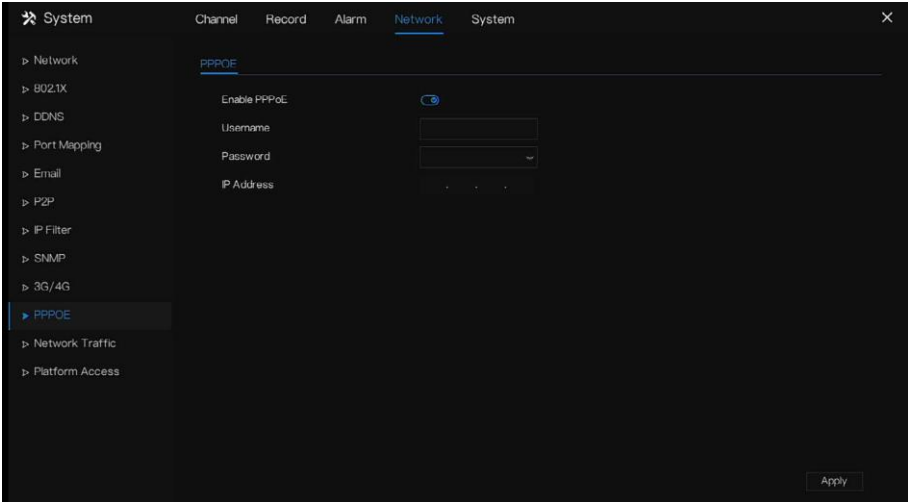
If the Internet access type is LTE (4G network), you do not need to dial the number, user name and password.

----End

7.6.11 PPPOE

PPPOE point to point protocol Ethernet, use the PPPOE to access network immediately, as shown in Figure 7-60.

Figure 7-60 PPPOE



Step 1 Enable the PPPOE function.

Step 2 Input username and password (provided by the network operator)..

Step 3 Click **Apply** to save settings, and the IP is obtained automatically.

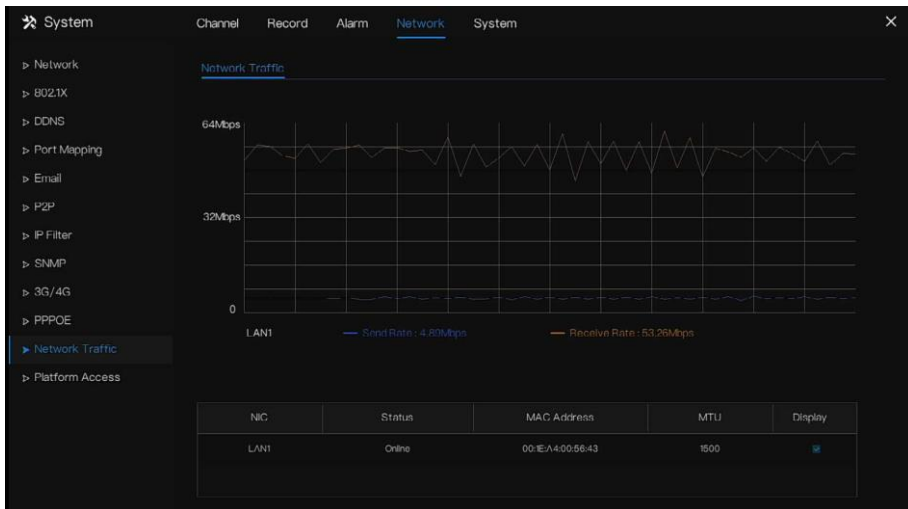
Step 4 Users input the IP to access DVR web immediately.

----**End**

7.6.12 Network Traffic

Users can view the network traffic immediately, as shown in Figure 7-61.

Figure 7-61 Network traffic screen



There are two rates, transmit rate and receive rate (the web interface shows live video).

----End

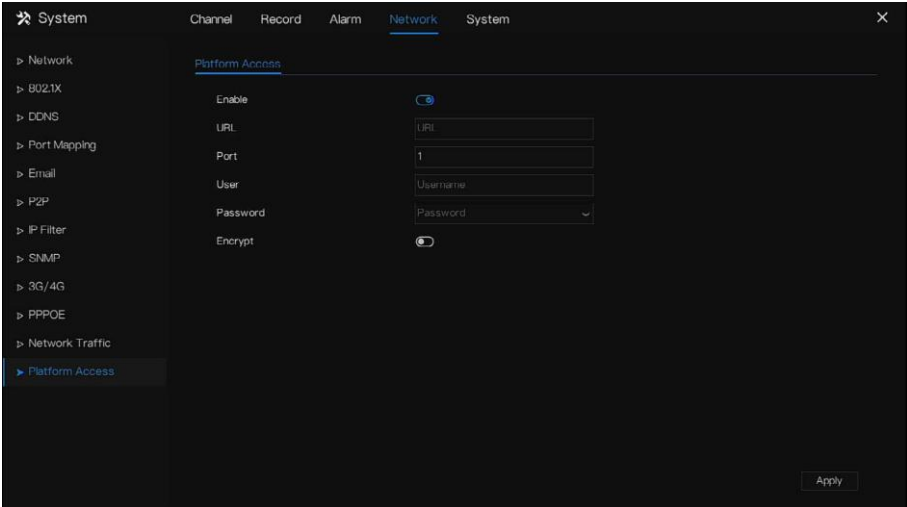
7.6.13 Platform Access

If the DVR and platform system are not at the same local network, you can connect the device and the platform system to an external server.. You should build a server for platform in advance, platform’s remote IP/Port and DVR are mapping port to external network.

Step 1 Choose **Configuration > Network Service > Platform Access**.

The **Platform Access** page is displayed, as shown in Figure 7-62

Figure 7-62 Platform Access page

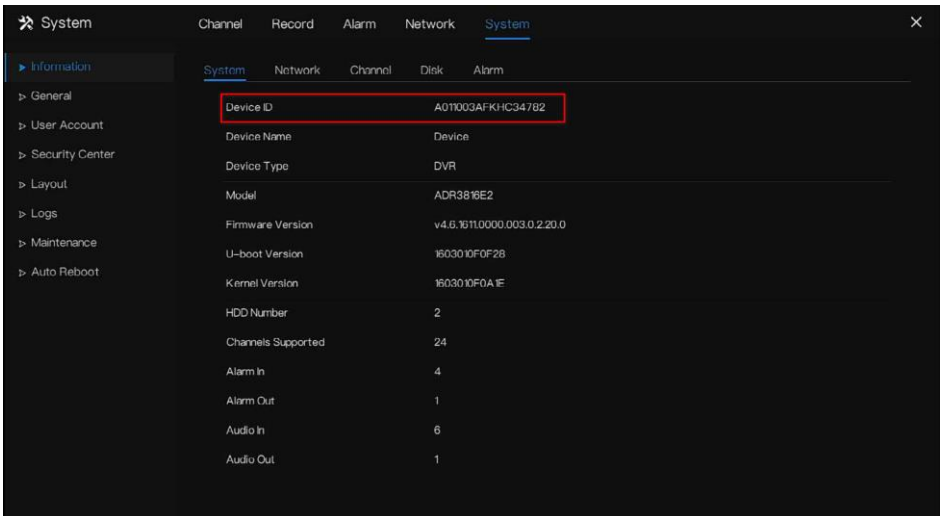


Step 2 Input the parameters. The URL and port are the the IP address and port of the platform server.

Step 3 The name and port are the platform’s login name and password.

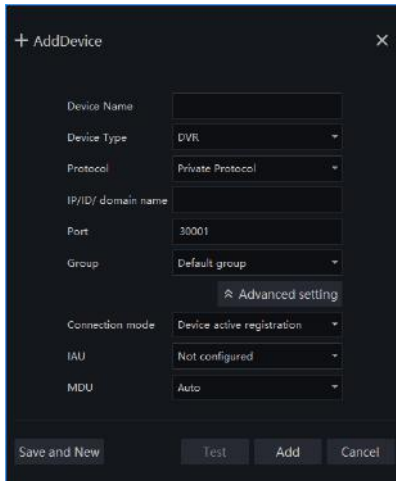
Step 4 Add the DVR to platform, you should input the following information
1: IP/ID/Domain name is Device ID of DVR.

Figure 7-63 IP/ID/Domain



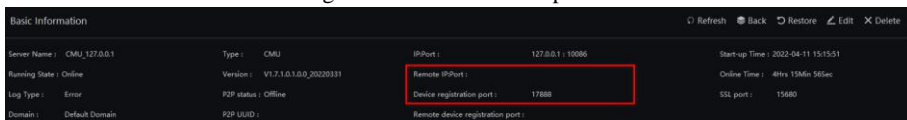
2: The connection mode should be selected as **Device active registration**.

Figure 7-64 Connect DVR to platform



3: the CMU, MDU and IAU servers of platform should port map to external network in advance.

Figure 7-65 URL address / port



Step 5 If you want to encrypt the access, you can enable the Encrypt.

Step 6 Click **Apply**.

The message "Apply success!" is displayed, and the system saves the settings.

----End

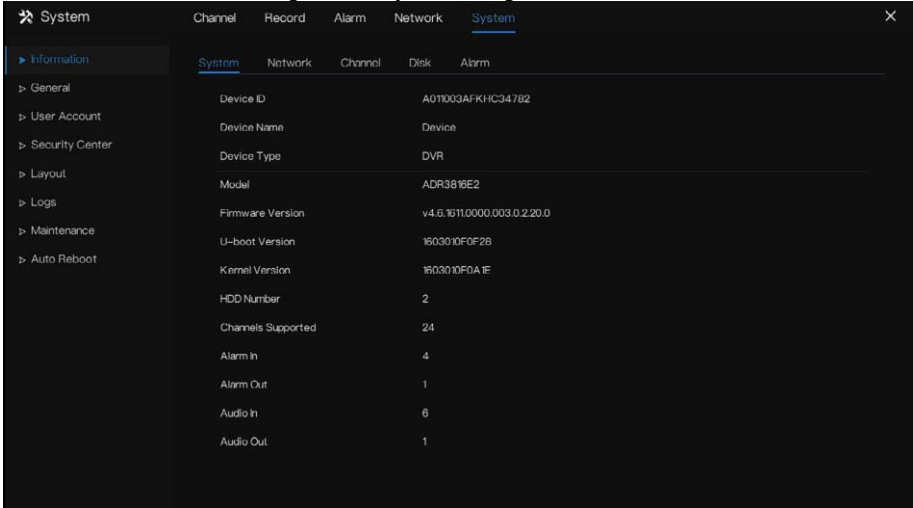
7.7 System Management

View the device **Information** and set **General** information, **User Account**, **Security Center**, **Layout**, **Logs**, **Maintenance** and **Auto Reboot** for the system setting.

Operation Description

Click **System** in the main menu (or click the system page of any function screen in the main menu) to access the system setting screen, as shown in Figure 7-66.

Figure 7-66 System setting screen



7.7.1 Information

Information includes System, Network, Channel, Disk, Alarm, as shown in Figure 7-67 .

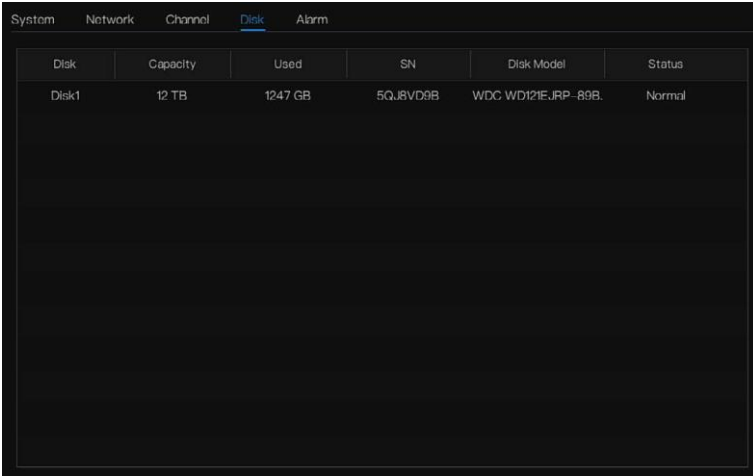
Figure 7-67 Information interface

System		Network	Channel	Disk	Alarm
Status	Online				
IP Address	192.168.32.219				
Subnet Mask	255.255.0.0				
Default Gateway	192.168.0.1				
MAC Address	00:1E:A4:00:56:43				
DHCP	OFF				
Preferred DNS Server	192.168.0.1				
Alternate DNS Server	8.8.8.8				
Total Bandwidth	100.00 Mbps				
Received Packets	48.75 Mbps				

Figure 7-68 Channel

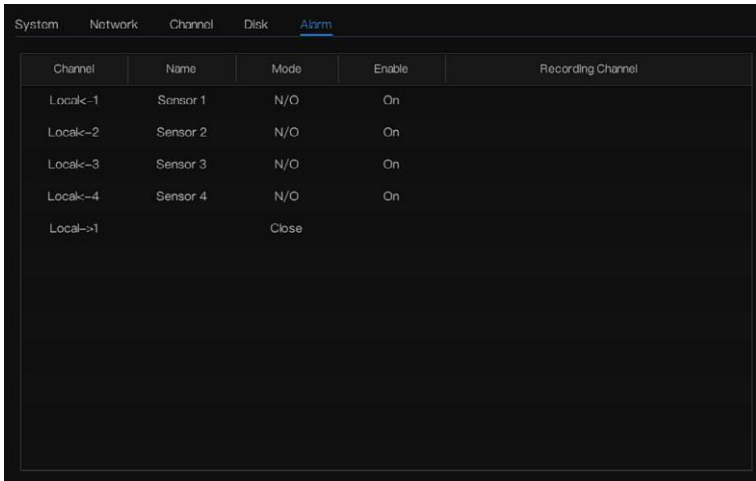
System		Network	Channel	Disk	Alarm
Channel	Name	Status	Video Format	Resolution	Bitrate(kbps)
CH12	Channel12	Offline	H.265/H.265	3840*2160/720*576	2048/1024
CH13	Channel13	Offline	H.265/H.265	2592*1520/704*576	2048/1024
CH14	Channel14	Offline	H.265/H.265	3840*2160/720*576	2048/1024
CH15	Channel15	Offline	H.265/H.265	1280*720/320*240	2048/1024
CH16	3451234567890	Online	H.265/H.265	1920*1080/704*480	2048/1024
CH17	Channel17	Offline	H.264/H.264	1920*1080/704*480	2048/1024
CH18	SN-IPR8050CHAN-B.	Online	H.264/H.265	2592*1944/704*480	2048/1024
CH19	Channel19	Offline	H.265/H.265	2592*1944/704*480	2048/1024
CH20	Channel20	Offline	H.265/H.265	2880*1620/704*480	2048/1024
CH21	SN-IPV8080UAR-ZZ.	Online	H.265/H.265	3840*2160/352*288	2048/1024
CH22	SN-IPR8081HCBA-B.	Online	H.265/H.265	3840*2160/704*480	2048/1024
CH23	SN-IPR8080ALAN-7	Online	H.265/H.265	3840*2160/704*480	2048/1024

Figure 7-69 Disk



Disk	Capacity	Used	SN	Disk Model	Status
Disk1	12 TB	1247 GB	5QJ8VD9B	WDC WD12EJRP-89B	Normal

Figure 7-70 Alarm



Channel	Name	Mode	Enable	Recording Channel
Local-1	Sensor 1	N/O	On	
Local-2	Sensor 2	N/O	On	
Local-3	Sensor 3	N/O	On	
Local-4	Sensor 4	N/O	On	
Local-5		Close		

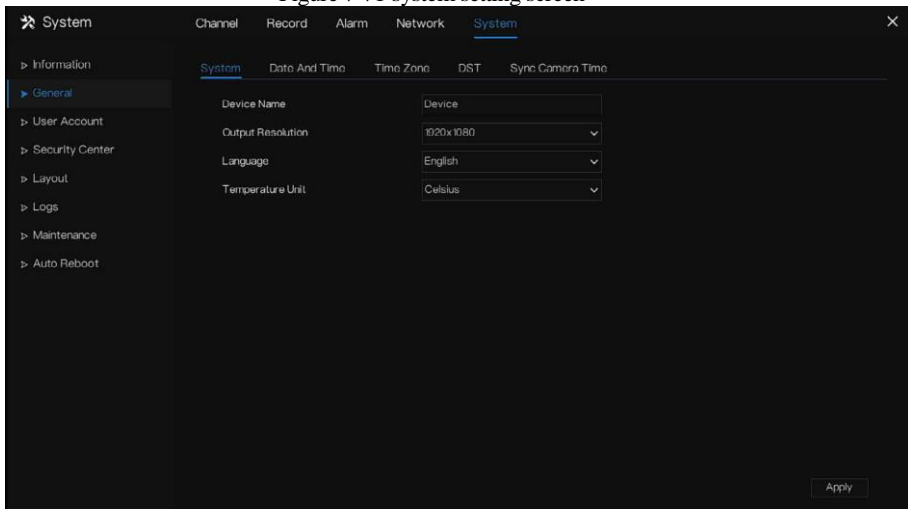
7.7.2 General

7.7.2.1 System

Operation Steps

Step 1 Click **General** in the main menu or menu of the system management screen and choose **General** to access the system screen, as shown in Figure 7-71.

Figure 7-71 system setting screen



Step 2 Enter device name for selected device.

Step 3 Select a proper resolution from the output resolution drop-down list.

Step 4 Select a required language from the Language drop-down list.

Step 5 Click **Apply** to save settings.

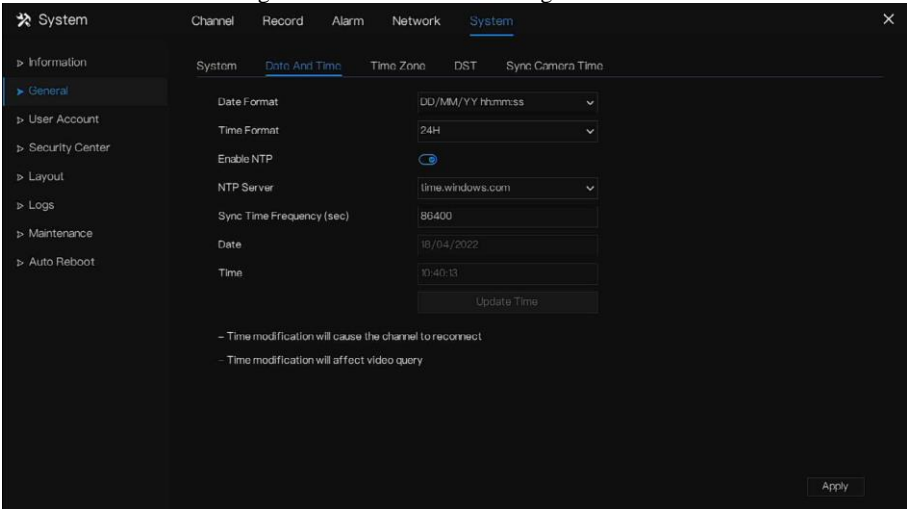
----**End**

7.7.2.2 Date and Time


Operation Steps

Step 1 Click **Date and Time** page to access the date and time setting screen, as shown in Figure 7-72.

Figure 7-72 Date and Time setting screen



Step 2 Select required format from the Date Format and time format drop-down list.

Step 3 Click  next to NTP Sync to disable time synchronization. Time synchronization is enabled by default. Time is synchronized with the NTP.

Step 4 After NTP Sync is disabled, you can manually set the system time:

Click **Date** and use the scroll wheel to select the year, month, and date.

Click **Time** and use the scroll wheel to select the hour, minute, and second.

Click **Modify Time** to save the time settings.

Step 5 Click **Apply** to save settings.

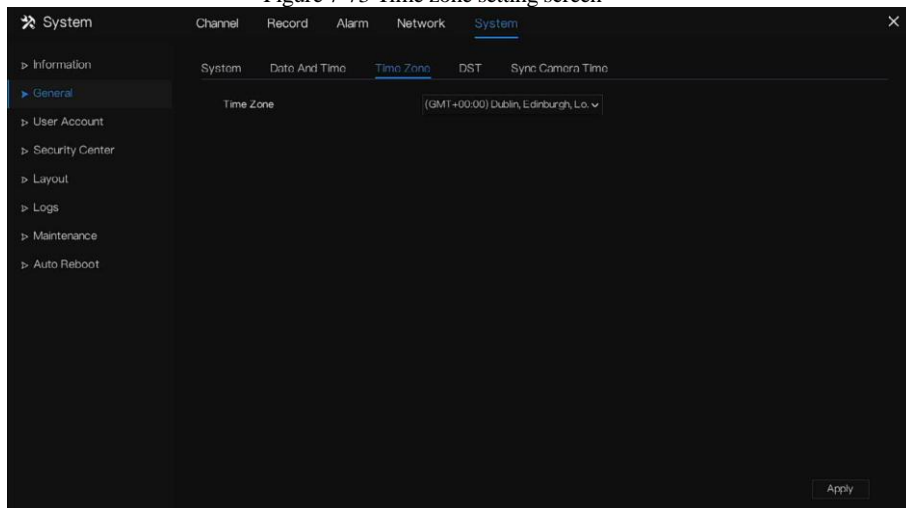
----End

7.7.2.3 Time Zone

Operation Steps

Step 1 Click **Time zone** page to access the time zone setting screen, as shown in Figure 7-73.

Figure 7-73 Time zone setting screen



Select a required time zone from the Time Zone drop-down list.

Step 2 Click  to save settings.

----End

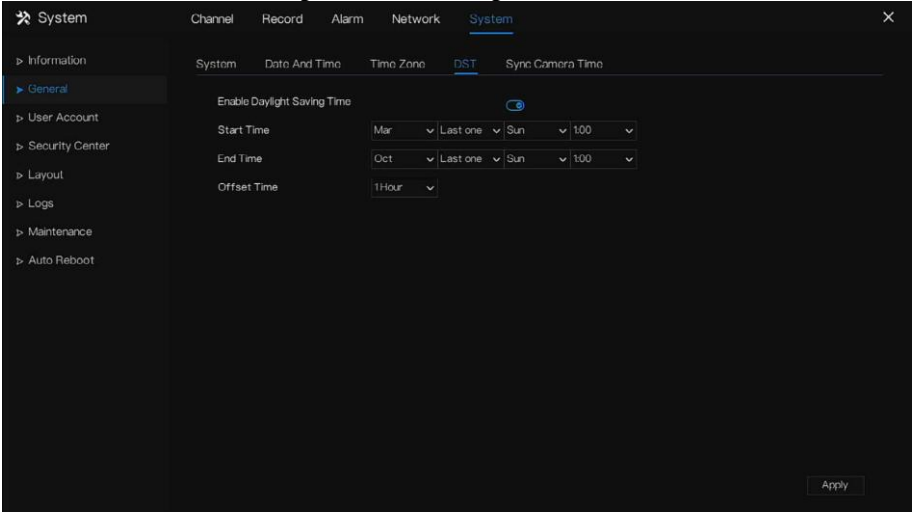
7.7.2.4 DST


Daylight saving time begins in the spring, when the device clock is set one hour ahead automatically. It is then set one hour back in the fall. The offset time can be changed as local rules.

Operation Steps

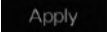
Step 1 Click **DST** page to access the DST setting screen, as shown in Figure 7-74.

Figure 7-74 DST setting screen



Step 2 Click  next to **DST** to enable DST.

Step 3 Select start time, end time, offset time from the drop-down list respectively, that according to the local rules.

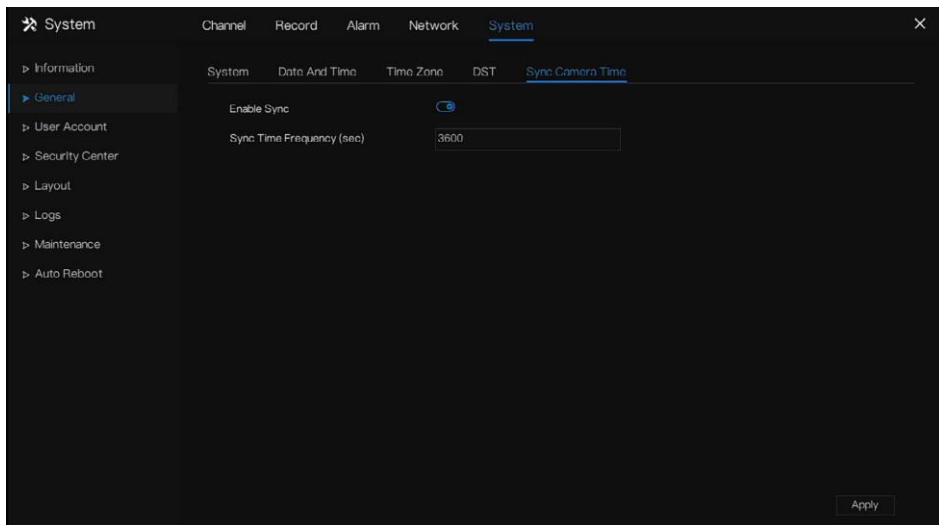
Step 4 Click  to save settings.

----End

7.7.2.5 Sync Camera Time

Users enable the sync camera time, the channels will show the sync time, and set the frequency of check.

Figure 7-75 Sync camera time



7.7.3 User

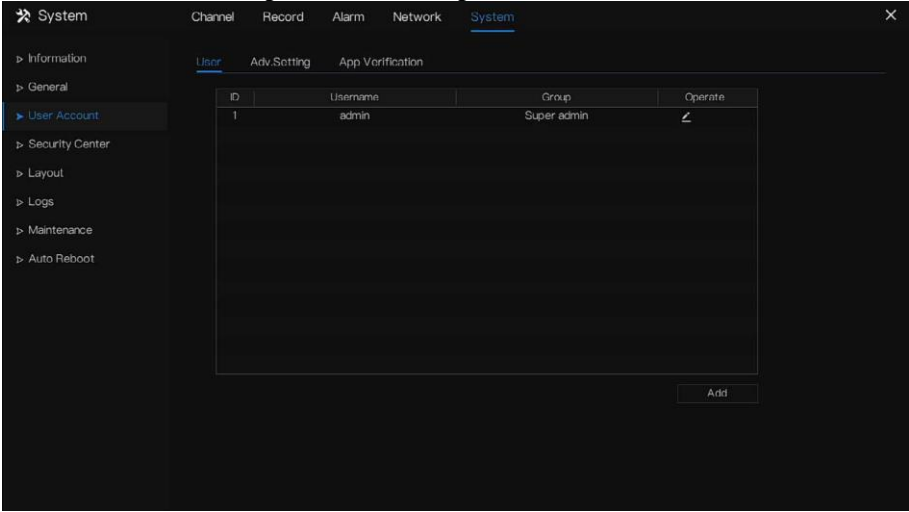
Add, modify, and delete a user and privilege in user screen, admin users can dispose privilege to different users.

7.7.3.1 User

Operation Steps

Step 1 Click **User** in the main menu or menu of the system management screen and choose **User** to access the user screen, as shown in Figure 7-76.

Figure 7-76 User management screen



Step 2 Add or delete a user.

- Add a user

Click **Add**, the **Add User** dialog box appears, as shown in Figure 7-77.

Figure 7-77 Add user screen

Input a username, password and confirm password, choose group and change password reminder, set the expire date.

NOTE

The password should include letters, characters and numbers, at least two types.

The password should be 6~32 characters long.

Step 3 Select a **Group** from the drop-down list box.



Step 4 Select a **Change password reminder** value from the drop-down list box.

Step 5 Select the operation privileges and channels in the list of the add user screen.

Step 6 Click . The user is set successfully.

NOTE

The default user is **Administrator** and cannot be deleted or modified.

Select a user from user list and click  to edit, or click  to delete a user.

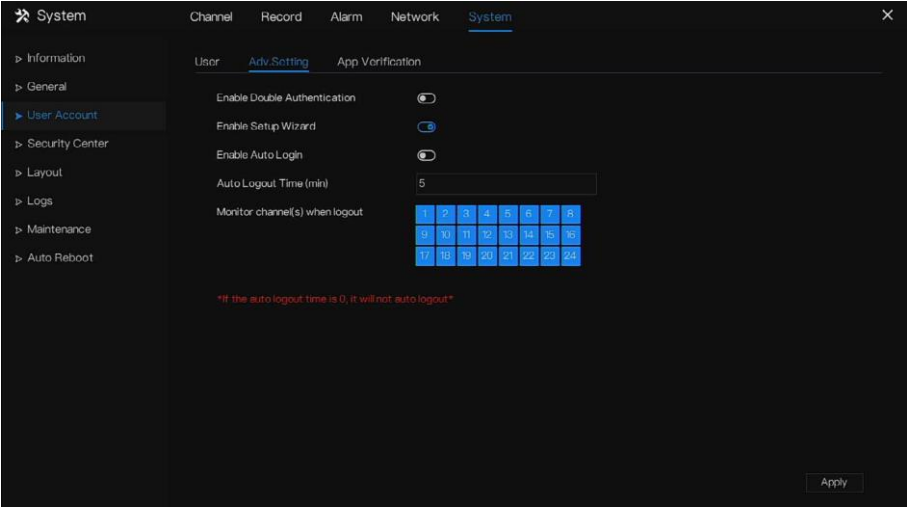
-----End

7.7.3.2 Advance Setting

Operation Steps

Step 1 Click **User** in the main menu or menu of the system management screen and choose **Adv Setting** to access the user screen, as shown in Figure 7-78.

Figure 7-78 Advance setting screen



Step 2 Enable or disable Double Authentication, Auto login, Setup Wizard. Set the logout time if the user disable the auto login.

Step 3 Choose monitor channels when logout, the default is all channels.

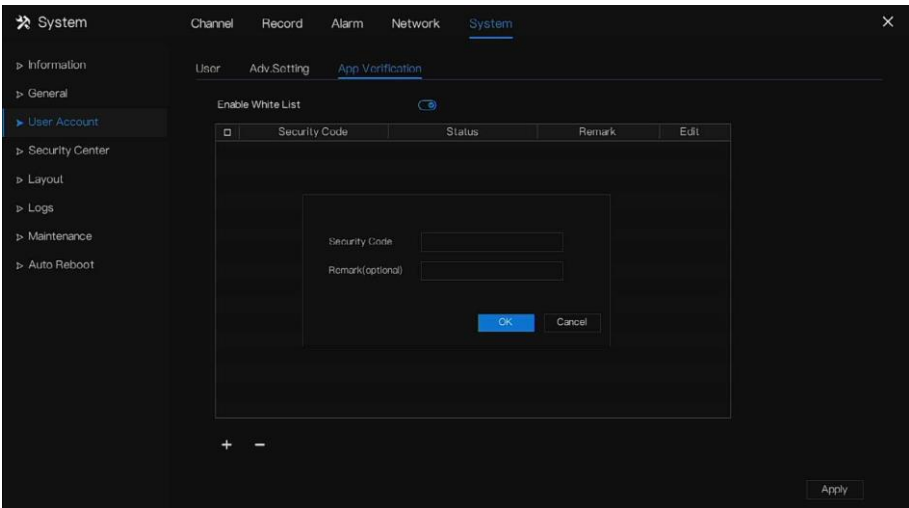
Step 4 Click **Apply** to save settings.

-----**End**

7.7.3.3 App Verification

Add the digital number to white list, when the user login the cellphone App to manage the DVR, A series of numbers must be entered in the whitelist for testing and verification to ensure security.

Figure 7-79 Phone number allowed



Up to 20 phone numbers can be added, and remarks of them can be modified.

Tick the numbers, click “-” to delete the numbers.

Click **Apply** to save the setting.

-----End

7.7.4 Security Center

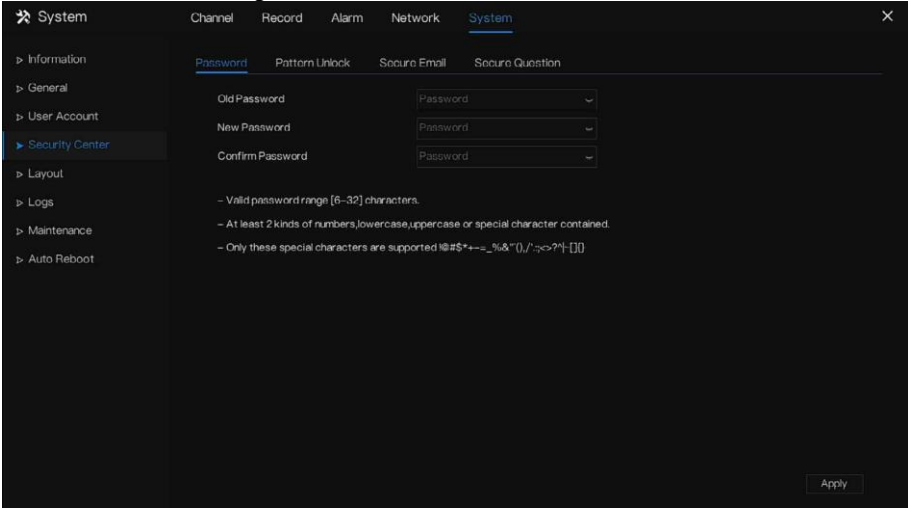
Users can modify the password, pattern unlock, secure email, and secure question.

7.7.4.1 Password

Operation Steps

Step 1 Click **Security Center** in the main menu or menu of the system management screen and choose **Password** to access the modify password screen, as shown in Figure 7-80.

Figure 7-80 Password modification screen




Step 2 Input the correct old password, new password, and confirm password.

 **NOTE**

The password should include at least two kinds of letters, characters and numbers.

The password should be 6~32 characters long.

Only special characters (!@#\$*+~) are supported,

Step 3 Click  to save modified password settings.

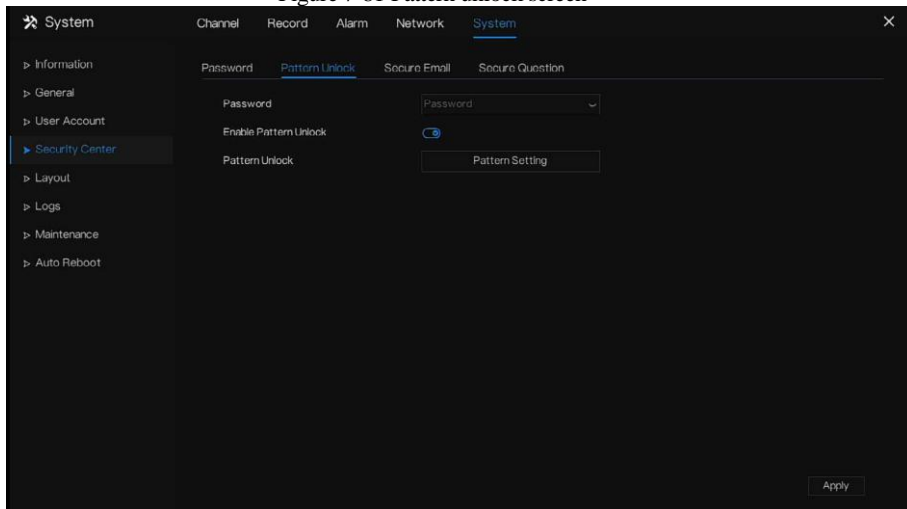
----End

7.7.4.2 Pattern Unlock

Operation Steps

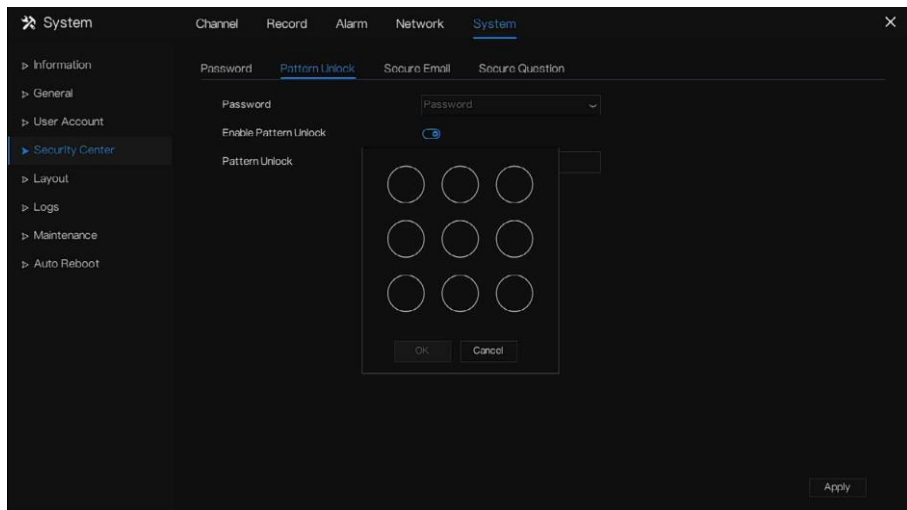
Step 4 Click **Security Center** in the main menu or menu of the system management screen and choose **Pattern Unlock** to access the modify pattern unlock screen, as shown in Figure 7-81.

Figure 7-81 Pattern unlock screen



Step 5 Input the password, click **Setting Pattern** to set an new pattern unlock.

Figure 7-82 Set pattern



Step 6 Draw the pattern, then it will remind to draw the confirmation pattern again.

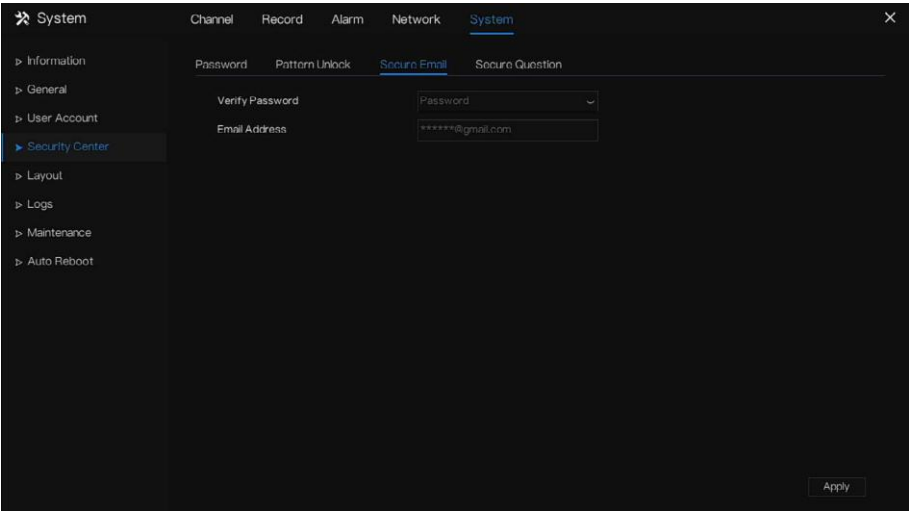
Step 7 Click **OK** to save the pattern unlock.

----End

7.7.4.3 Secure Email

Set the email to receive the verification code to create a new password, as shown in Figure 7-83.

Figure 7-83 Secure Email screen



Step 1 Input the password of DVR.

Step 2 Set the Email which will receive email of the verification code.

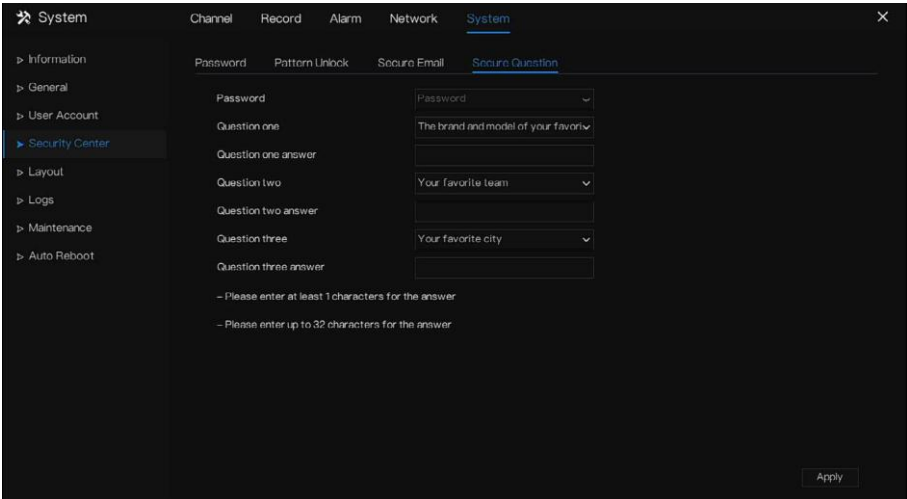
Step 3 Click **Apply** to save setting.

----End

7.7.4.4 Secure Question

Set the questions to create a new password, as shown in Figure 7-84.

Figure 7-84 Secure question screen



Step 4 Input the password of DVR.

Step 5 Choose the question from drop-down list.

Step 6 Input the answer, click **Apply** to save settings.

----End

7.7.5 Layout

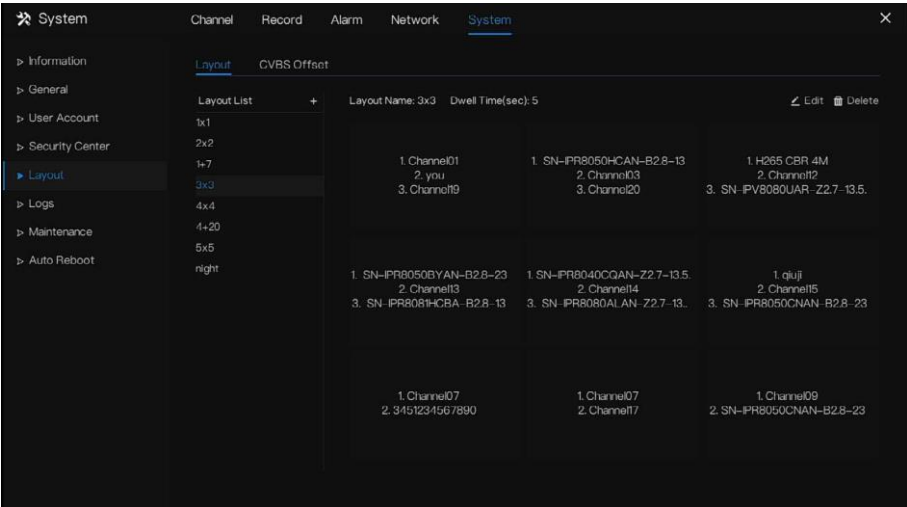
7.7.5.1 Layout

Set viewing video mode, dwell time in display screen. The layout is set as multi-page auto sequence.

Operation Steps

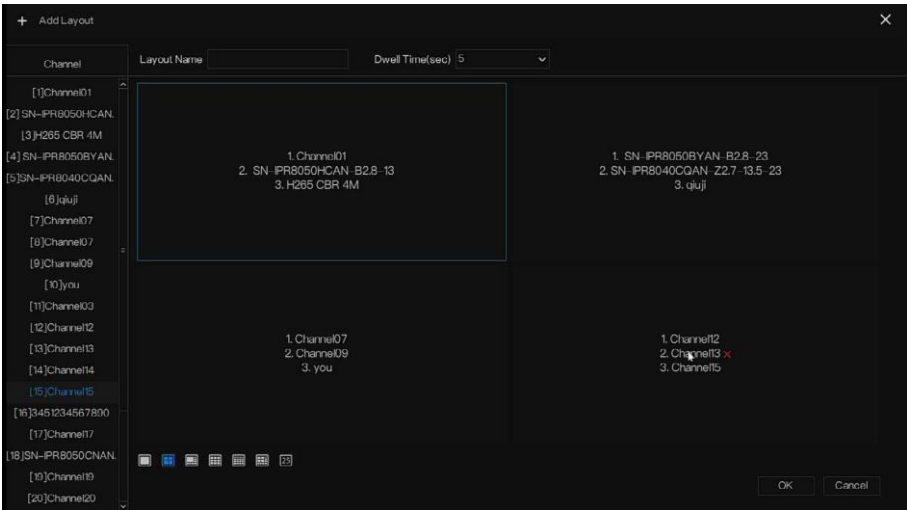
Step 1 Click **Layout** in the main menu or menu of the system management screen and choose **Layout** to access the display screen, as shown in Figure 7-85.

Figure 7-85 Auto Sequence screen



Step 2 Click “+” to add a new layout. The default layout is one splitting screen.

Figure 7-86 Add a new layout

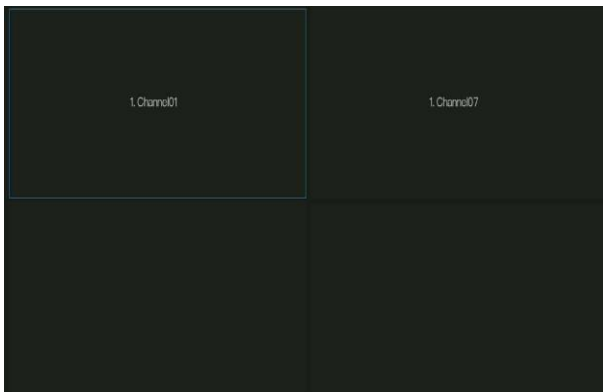


Step 3 Input the layout name, select dwell time from the SEQ Dwell time drop-down list(the display screen will loop play the real time video according to setting time).

Step 4 Choose the mode of splitting screen at the page bottom; set the display mode of channels by dragging channel to the specific location, or choose the location first, then click the channels to place. One splitting screen can play several channels, the auto sequence is

played by the set pages, for example the first split screen is set as two pages (channel 1 and 2), the second split screen is set as one page (channel 3), when enable to auto sequence, channel 1 and channel 3, then show channel 2 and channel 3.

Figure 7-87 Auto sequence



Step 5 Click **Apply** to save dwell settings.

 **NOTE**

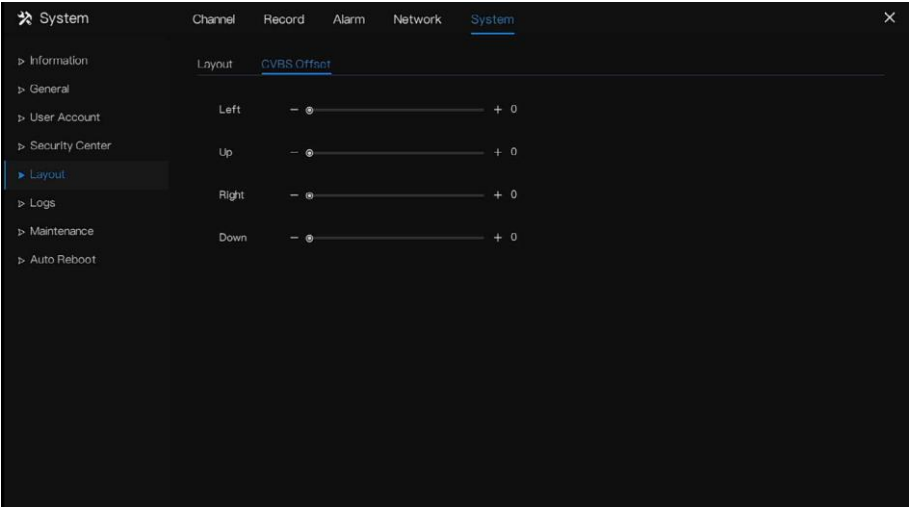
The layout can be added up to 16 layouts.

---End

7.7.5.2 CVBS Offset

The DVR is connected to CVBS monitor via V-out port. Adjust the directions value to set the CVBS monitor's display.

Figure 7-88 CVBS Offset



---End

7.7.6 Logs

7.7.6.1 System Log

Search for logs information and export the information of logs.

Operation Steps

Step 1 Click **Logs** in the main menu or menu of the system management screen and choose **Logs** to access the log screen, as shown in Figure 7-89.

Figure 7-89 System Log screen

ID	Start Time	Channel	Log Type	Information
1	18/04/2022 13:00:36	--	Login	[admin] 127.0.0.1 login
2	18/04/2022 12:53:47	--	Logout	[admin] 127.0.0.1logout
3	18/04/2022 12:37:13	Channel10	Setup OSD	[admin] 127.0.0.1[0,0,2000,1000,1][100,1000,
4	18/04/2022 12:37:13	Channel03	Setup OSD	[admin] 127.0.0.1[0,0,2000,1000,1][0,900,200,
5	18/04/2022 12:32:47	--	Login	[admin] 127.0.0.1 login
6	18/04/2022 12:28:22	--	Logout	[admin] 127.0.0.1logout
7	18/04/2022 12:01:31	--	Login	[admin] 127.0.0.1 login
8	18/04/2022 11:04:16	--	Logout	[admin] 127.0.0.1logout
9	18/04/2022 10:56:36	--	Login	[admin] 127.0.0.1 login
10	18/04/2022 10:47:09	--	Logout	[admin] 127.0.0.1logout
11	18/04/2022 10:28:35	--	Login	[admin] 127.0.0.1 login
12	18/04/2022 10:26:31	--	Logout	[admin] 127.0.0.1logout
13	18/04/2022 10:18:31	--	Login	[admin] 127.0.0.1 login
14	18/04/2022 10:14:56	--	Logout	[admin] 127.0.0.1logout
15	18/04/2022 10:02:46	--	Login	[admin] 127.0.0.1 login

Step 2 Set the logs start date, end date, start time and end time on log screen.

Step 3 Select logs type from the drop-down list.

Step 4 Click **Search** to query logs.

Step 5 Click **Export** to export logs to flash disk.

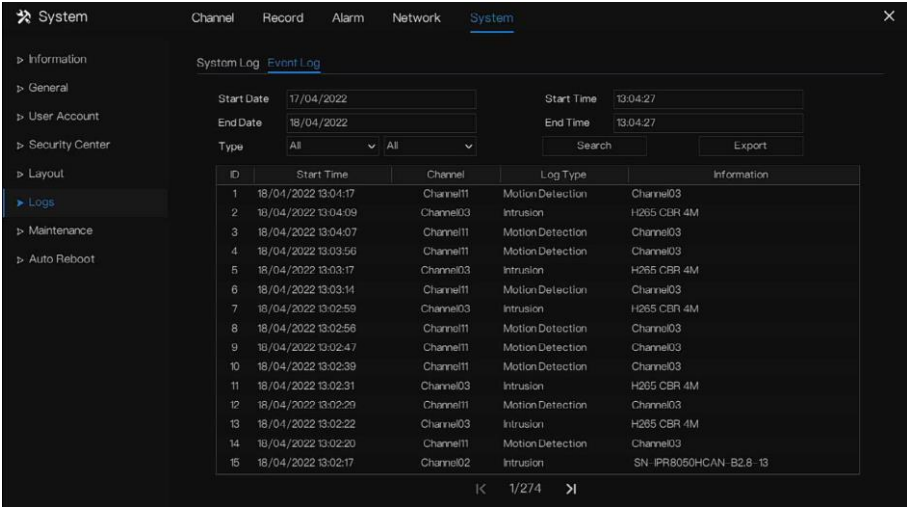
Step 6 Logs can be saved to both flash drive and hard disk, the latest logs are saved to flash drive and the old logs will be transferred to hard disk.

----End

7.7.6.2 Event Log

The event logs are divided into more detailed types, users can find the information quickly. The operation is the same as system logs, please refer to chapter 7.7.6.1.

Figure 7-90 Event



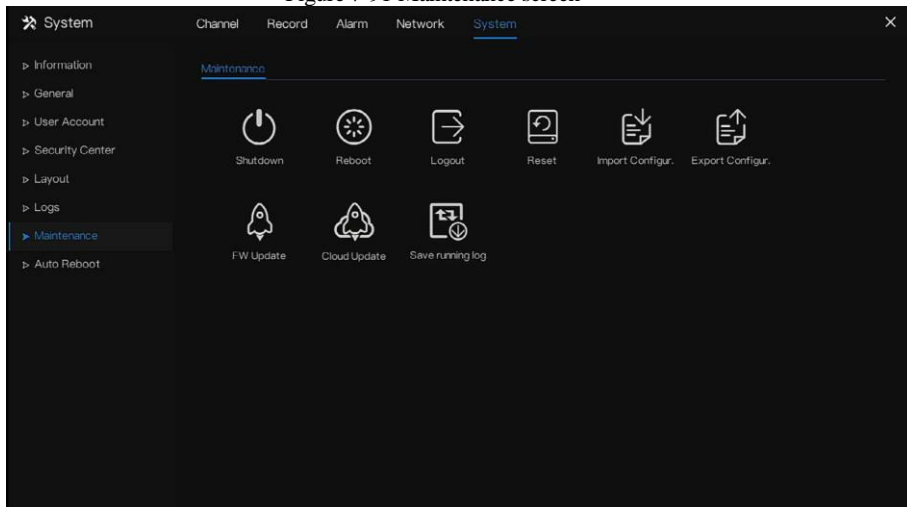
----End

7.7.7 Maintenance

Operation Steps

Step 1 Click **Maintenance** in the main menu or menu of the system management screen and choose **Maintenance** to access the maintenance screen, as shown in Figure 7-91.

Figure 7-91 Maintenance screen



Step 2 Click Shutdown , Reboot , Logout, Exit system, Reset or update to operate DVR if you need.

Step 3 Click import configuration or export configuration to view the message “ **Are you sure to import the configuration?**” Make sure that the flash driver is working.

Step 4 The tip will show on screen, click **OK** to ensure choice.

Step 5 Click **Import Config** to import the configuration to flash drive.

Step 6 Import the configuration, the device would restart immediately.

Step 7 Click **Export Config** to export the configuration from flash drive.

NOTE

When the DVR finishes updating, the device would restart.

If the device is malfunction, you can save the running log and send it to our technicians who can analyze the cause of the error.

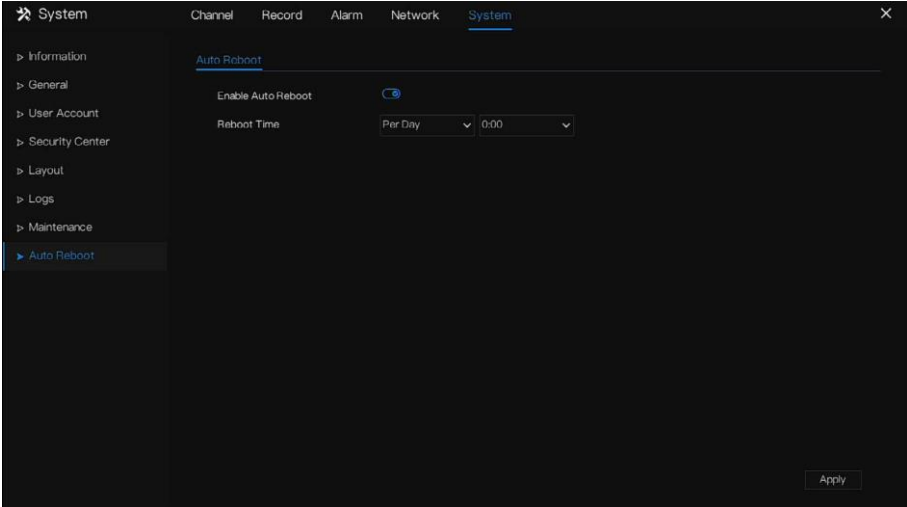
----End

7.7.8 Auto Reboot

Operation Steps

Step 1 Click **Auto restart** in the main menu or menu of the system management screen and choose **Auto restart** to access the maintenance screen, as shown in Figure 7-92.

Figure 7-92 Auto restart screen



Step 2 Enable the function, restart time is showing as figure



Step 3 Restart the DVR per day, week or month.

Step 4 Select the restart time from the drop-down list.

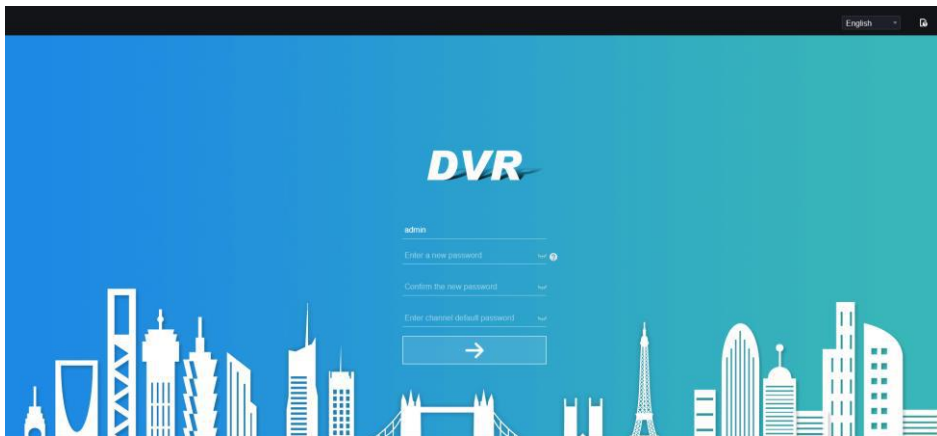
----**End**

8 WEB Quick Start

8.1 Activation

If you don't set the password at UI interface, activate the device, as shown in Figure 8-1.

Figure 8-1 Activation interface

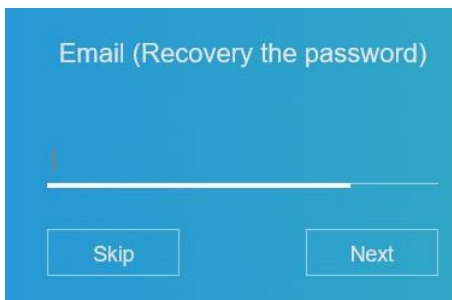


Step 1 Set the password, confirm the password.

Step 2 Input the channel password.

Step 3 Set the email for recovering the password, as shown in Figure 8-2.

Figure 8-2 Email



Step 4 Set the question of recovering the password, as shown in Figure 8-3.

Figure 8-3 Question

← Question (Recovery the password)

The brand and model of your favorite car

Enter question one answer

Your favorite team

Enter question two answer

Your favorite city

Enter question three answer

Skip Finish

 **NOTE**

If you don't set the email or question, you can skip the steps.

8.2 Login and Logout

 **CAUTION**

You must use below Firefox 53 or below Chrome 45 to access the Web interface.

Otherwise, the interface functions cannot be used normally.

The win 7/ win 10 system supports IE 8 or more, but the XP system does not.

Brower supports 32 bits.

Descriptions of browser:

To access the client by using Chrome 42-44, you need to enable manually Npapi in the browser according to following steps:

- In the Chrome address bar, enter `chrome://flag/#enable-npapi`.

- Go to the experimental features' management page.
- Enable NAPAPI Mac, Windows.
- Click **Enable** (NPAPI plugin is enabled).
- Re-launch Chrome.

Here we take IE 10 as an example for videos viewing.

Login

Step 1 Open IE browser, enter the IP address of the DVR (default value: 192.168.0.121) in the address box, and press **Enter**.

The login page is displayed, as shown in Figure 8-4.

Figure 8-4 Login page interface



Step 2 Input the user name and password.



NOTE

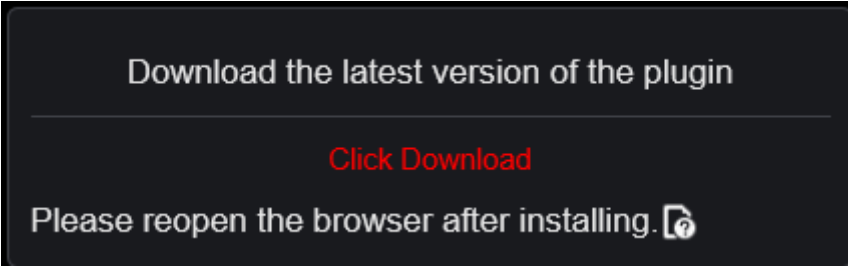
The default user name and password are admin. If the password is wrong more than 3 times, please login again after 5 minutes.

Users can change the system display language on the login page.

The modify password page pop-up window would show when login the DVR for the first time.

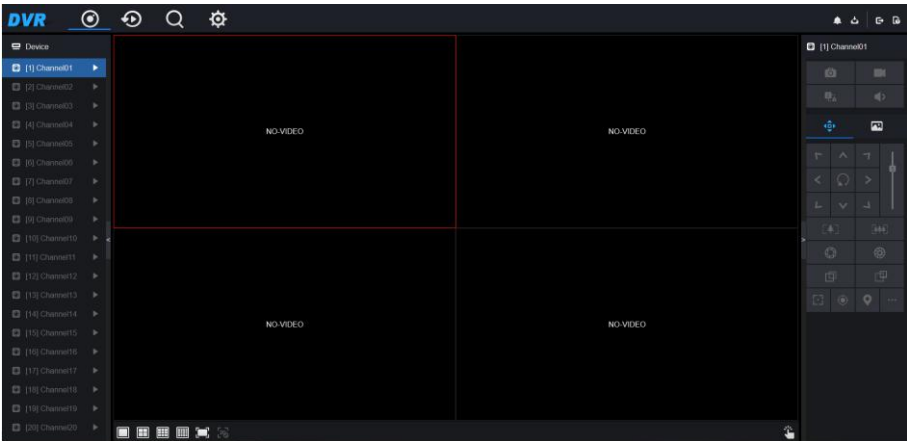
Step 3 Click **Login** to access the homepage, it would show reminder to download the latest version of the plugin, as shown in Figure 8-5. Only IE browser need to load the plugin.

Figure 8-5 Download the plugin





Step 4 Install the latest plugin, reopen the browser and the homepage is displaying as shown in Figure 8-6.

Figure 8-6 Homepage interface



Logout

To logout of the system, click  in the upper right corner of the homepage. The pop-up message shows “**Do you want to exit?**” Click  and the login page will display.

Homepage Layout

DVR allows you to use the Web interface in a PC for implementation of such functions as live video, playback, retrieval, setting, image parameters access, configuration, PTZ control and so on.

Figure 8-7 shows the overall layout of the interface. For descriptions of the interface, please refer to Table 8-1.

Figure 8-7 Homepage layout

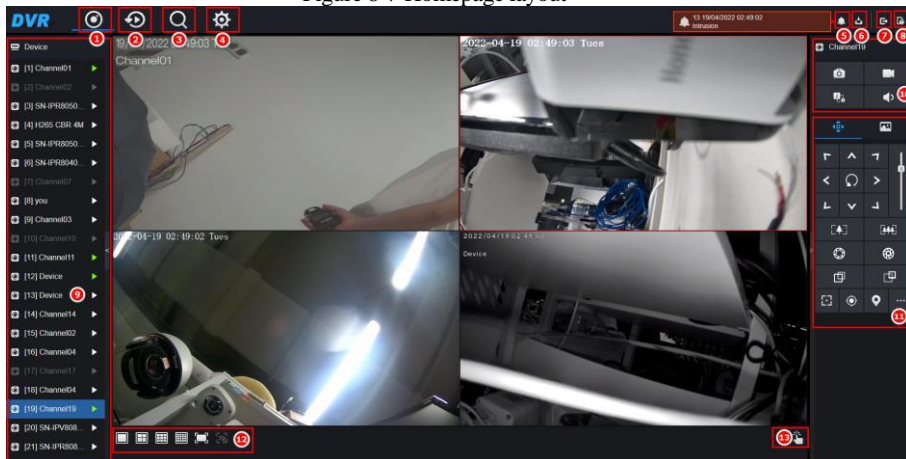






Table 8-1 Descriptions of homepage

No.	Function	Description
1	Live video	Display the real-time videos of the channels managed by DVR
2	Playback	Click to enter playback interface.
3	Alarm search	Click to enter alarm search interface to search channel alarm or system alarm.
4	System setting	Click to enter system setting interface, set channel, recorded, alarm, network, system and local settings.
5	Alarm	Alarm notification. Users can tick pop-up message to monitor, system alarm and channel alarm.
6	Download backup	The histories of backup, and the process of download.
7	Logout button	Users can click Logout to exit the current account and return to the login interface.
8	Help	Help for running environment, plug-in installation and activation.

9	Devices list	Display a list of the channels of the managed DVR and the channels managed by DVR.
10	Channel Operation	Include snapshot, record, stream switch and audio on/off.
11	PTZ control button	 <p>Click  to show PTZ control buttons in zone 10, you can control the PTZ equipment in the current channels. That function is only used for IP dome cameras.</p>
	Color parameter button	 <p>Click  to show color parameter setting buttons in zone 9, you can set and adjust the color parameters, for example, brightness, contrast, saturation, and sharpness. Click More to access image settings.</p>
	Operation zone	The operation zone of PTZ control and image parameter setting.
12	Layouts	Select the one-screen, four-screen, nine-screen or sixteen- screen to switch the layout.
13	Manual alarm	Trigger and close the external alarm device manually.

----End

8.3 Browsing Videos

8.3.1 Browsing Real-Time Videos

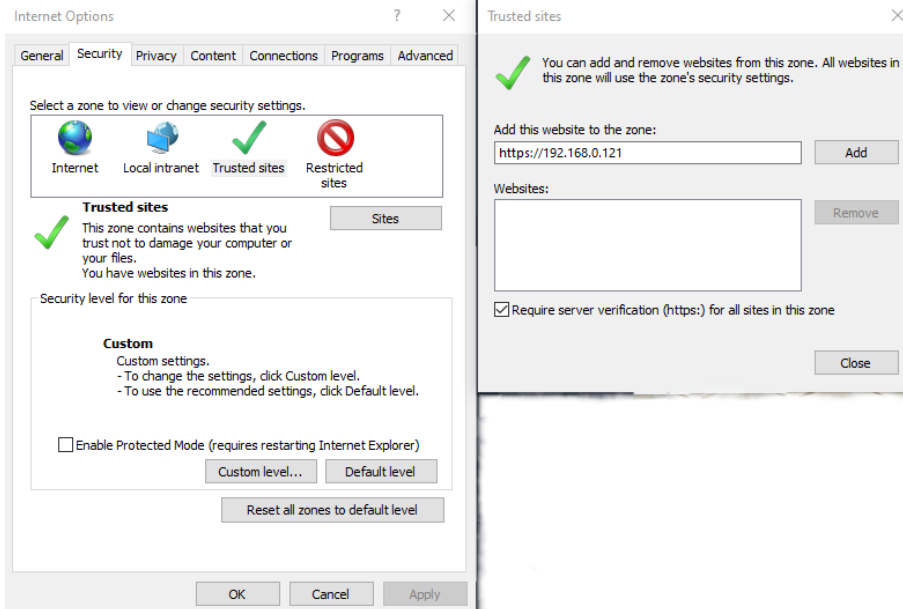
You can browse real-time videos in the web management system.

Preparation

To ensure that real-time videos can be played properly, users must perform the following operations when you log in to the web management system for the first time:

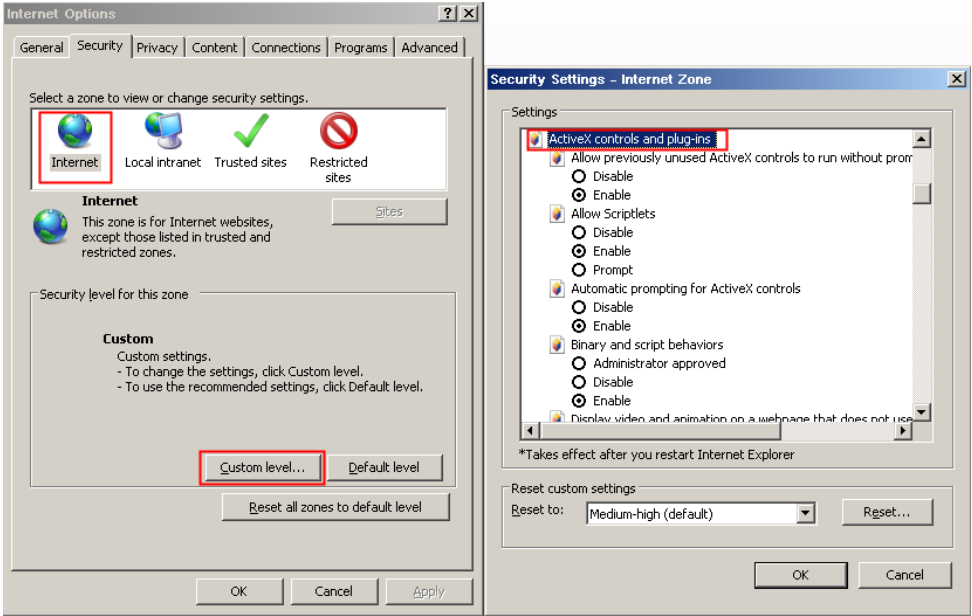
Step 1 Open Internet Explorer. Choose **Tools > Internet Options > Security > Trusted sites > Sites**. In the displayed dialog box, click **Add**, as shown in Figure 8-8.

Figure 8-8 Adding a trusted site



Step 2 In Internet Explorer, choose **Tools > Internet Options > Security > Customer level**, and set Download unsigned ActiveX controls and Initialize and script ActiveX controls not marked as safe for scripting under ActiveX controls and plug-ins to Enable, as shown in Figure 8-9.

Figure 8-9 Configuring ActiveX controls and plug-ins



Step 3 Download and install the player control as prompted. During installing, you need to close the browser.

 **NOTE**

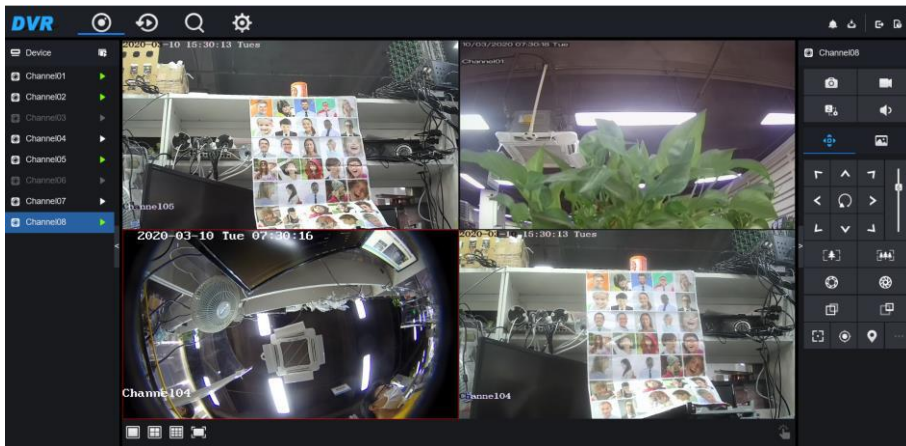
If the repair tips displayed when installing the control , close the browser and continue the installation, reopen the login page when the control is installed.

8.3.2 Live Video

Descriptions

After login the device, click online channel, you can view the real-time videos, as shown in Figure 8-10.

Figure 8-10 Real-time videos interface







----End

8.3.3 Channel Operation

Descriptions

Channel operation includes snapshot, record, stream switch and audio on/off. Table 8-2 describes the operations.

Table 8-2 Descriptions of homepage

Buttons	Button description	How to operate
	Snapshot	Click button to take snapshots of the current image.
	Record	Click button to start recording and click button again to stop recording.
	Switch stream	Click button to switch stream 1 (main stream) and stream 2(sub stream).
	Enable/Disable video	Click button to enable the audio and click again to disable the video.

----End

8.3.4 PTZ Control and Setting



NOTE

The PTZ control is only used for some cameras, such as high speed cameras which rotate and adjust the lens. For monitored lens cameras can zoom /focus /iris. For actual operations please refer to actual product.

Descriptions

The PTZ control and setting function only applies to Network Dome or cameras connected to an external PTZ.

PTZ Setting

If a Network Dome or a camera connected to PTZ had been added to the DVR channel, users can control the PTZ rotation to adjust their shooting angle when you are viewing the video. This allows you to perform Omni-directional video surveillance.






Click , the PTZ operation and setting interface is displaying, as shown in Figure 8-11.











Table 8-3 describes the operations.

Figure 8-11 PTZ control interface



Table 8-3 Device parameters

Buttons	Button description	How to operate
	Direction key	Click button to control omni-directional movement of the PTZ.
	Speed slider	Drag the slider to adjust the value of PTZ rotation speed.

Buttons	Button description	How to operate
	Zoom in	Click buttons to adjust the focal length.
	Zoom out	
	Iris+	Click buttons to adjust the aperture.
	Iris-	
	Far focus	Click buttons to adjust the focal length.
	Near focus	
	Auto focus	Click button to focus automatically.
	Home preset	N/A
	Preset	The camera is set the tour, click the button and dome camera rotate as the setting.
	More	More settings

8.3.5 Sensor Setting

Descriptions


The sensor setting can adjust scene, brightness, sharpness, contrast and saturation, Click  to access image setting, as shown in Figure 8-12. Table 8-4 describes the operations.

Figure 8-12 Image parameter interface

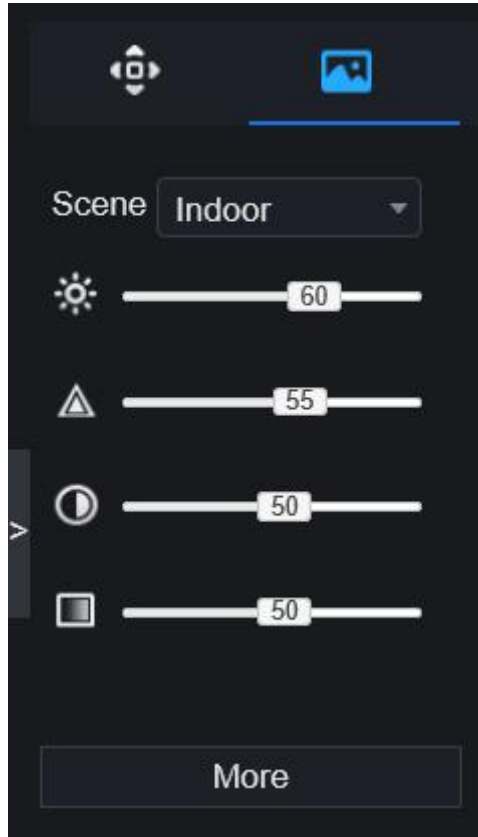






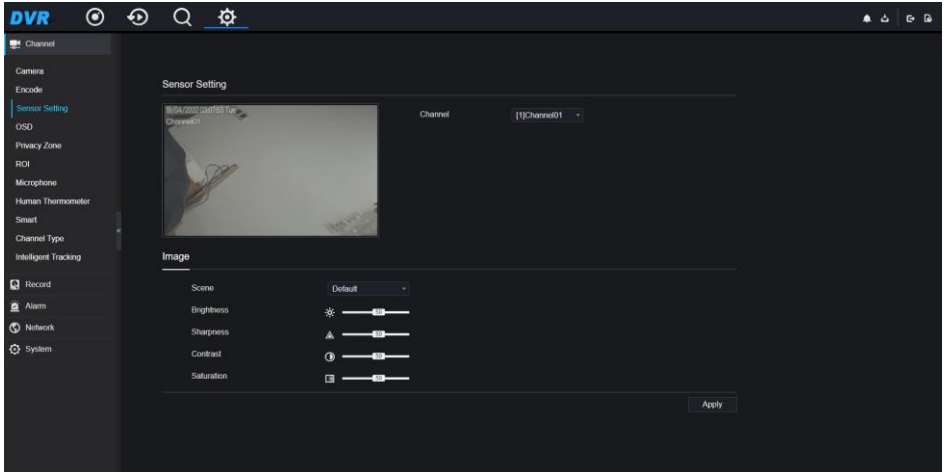
Table 8-4 Device parameters

Buttons	Button description	How to operate
	Brightness	Click button to adjust the image brightness.
	Sharpness	Click button to adjust the image definition.
	Contrast	Click button to adjust the transparency of the image.

Buttons	Button description	How to operate
	Saturation	Click button to adjust the chromatic purity of the image.

Click more will be access to system sensor setting. As shown in Figure 8-13, more detail please refer to *chapter Figure 4-7*.


Figure 8-13 Sensor setting interface



----End

8.3.6 Layout



Click  at the bottom left corner of real-time videos interface, the buttons indicate 1 screen, 4 screens and 9 screens from left to right. 16 screens need more ports.

----End

8. 4 Playback

8.4.1 Video Playback

Video playback refers to playing of videos stored in local hard disks.

Procedure




Step 1 Click  in the function navigation bar, the video playback interface is displayed, as shown in Figure 8-14.

Figure 8-14 Video playback



Step 2 Select a channel. Click a device in the device list. A selected device is marked with .

An unselected device is marked with .

Step 3 Select a date from calendar at left bottom, the date will be colored if it has record as shown in upper figure.

Step 4 Tick the type of record, such as schedule record, manual record and alarm record.

Step 5 Display videos.

After a device and date are selected, video information is displayed below the video pane. The time scale above the file axis shows the different time points of video recording. The time in blue in the middle is the time of the video playing.

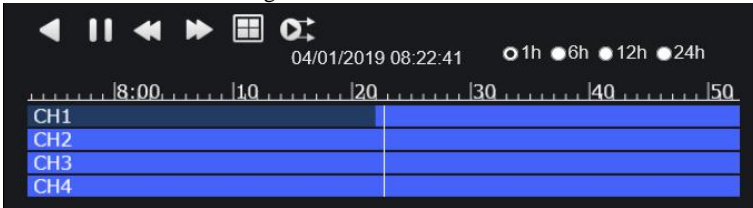
The file axis displays videos. The blue file axis indicates a video exists, grey file axis indicates no video exists.

You can drag the axis to play recording quickly.

Step 6 Play a video.

You can play a video after selecting a device and date. Figure 8-15 shows the control bar of video playback.


Figure 8-15 Control bar




 : Reversed.


 : Play/pause.

 : Triple speed.

 : Split screen. One or four screens.

 : Sync/async. You can set the different channels to play synchronously or asynchronously.

Sync mode indicates the selected channels play video synchronously. Async mode indicates user play different time period record

 : Backup, click the icon to download the recording video, click again to end the download.


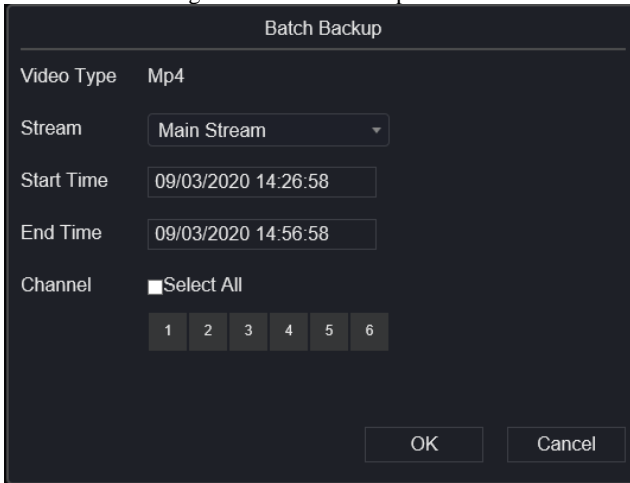
 : Batch backup, click the icon to backup many channels' recording videos, as shown in

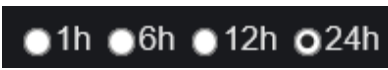
Figure 8-16.

Figure 8-16 Batch backup

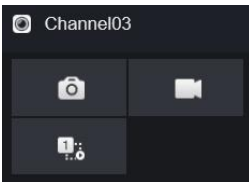


The image shows a 'Batch Backup' dialog box with the following fields and controls:

- Video Type:** Mp4
- Stream:** Main Stream (dropdown menu)
- Start Time:** 09/03/2020 14:26:58
- End Time:** 09/03/2020 14:56:58
- Channel:** Select All
- Channel Selection:** A row of six buttons labeled 1, 2, 3, 4, 5, and 6.
- Buttons:** OK and Cancel at the bottom right.



: Types of time bar.



: Users can operate the record as same as live video.

----End

8.5 Alarm Search

You can search for different alarm messages at the alarm search interface.

Procedure


Step 1 Click  in the function navigation bar, the channel alarm interface is displayed, as shown in Figure 8-17.


Figure 8-17 Alarm search interface

Device	ID	Start time	Channel	Type	Information	Operate
[1] Channel01	1	19/04/2022 03:18:56	Channel09	Motion Detection	Channel03	⊕ ↓
[2] Channel02	2	19/04/2022 03:18:56	Channel13	Intusion	Device	⊕ ↓
[3] SN-IPR8950	3	19/04/2022 03:18:52	Channel13	Intusion	Device	⊕ ↓
[4] H95 CBR 4M	4	19/04/2022 03:18:49	Channel13	Intusion	Device	⊕ ↓
[5] SN-IPR8950	5	19/04/2022 03:18:46	Channel13	Intusion	Device	⊕ ↓
[6] SN-IPR8940	6	19/04/2022 03:18:43	Channel13	Intusion	Device	⊕ ↓
[7] Channel07	7	19/04/2022 03:18:40	Channel04	Intusion	H955 CBR 4M	⊕ ↓
[8] you	8	19/04/2022 03:18:39	Channel13	Intusion	Device	⊕ ↓
[9] Channel03	9	19/04/2022 03:18:36	Channel13	Intusion	Device	⊕ ↓
[10] Channel10	10	19/04/2022 03:18:27	Channel04	Intusion	H955 CBR 4M	⊕ ↓
[11] Channel11	11	19/04/2022 03:18:23	Channel09	Motion Detection	Channel03	⊕ ↓
[12] Device	12	19/04/2022 03:18:17	Channel04	Intusion	H955 CBR 4M	⊕ ↓
	13	19/04/2022 03:18:01	Channel13	Intusion	Device	⊕ ↓
	14	19/04/2022 03:17:57	Channel13	Intusion	Device	⊕ ↓
	15	19/04/2022 03:17:54	Channel13	Intusion	Device	⊕ ↓
	16	19/04/2022 03:17:52	Channel09	Motion Detection	Channel03	⊕ ↓
	17	19/04/2022 03:17:52	Channel13	Intusion	Device	⊕ ↓
	18	19/04/2022 03:17:49	Channel13	Intusion	Device	⊕ ↓
	19	19/04/2022 03:17:49	Channel04	Intusion	H955 CBR 4M	⊕ ↓

Step 2 Tick channels and types, set start time and end time.

Step 3 Click **Search**, the result will be displayed as shown in Figure 8-17.

Step 4 Click  to play the recording.

Step 5 Click  to download the recording.

 **NOTE**

Click  to select the page of alarm list.

 Every page show 20 shows the rows shown in every page.

----End

9 System Setting

The system setting allows you to set system, channel, record, alarm, network and local setting.

9.1 Channel

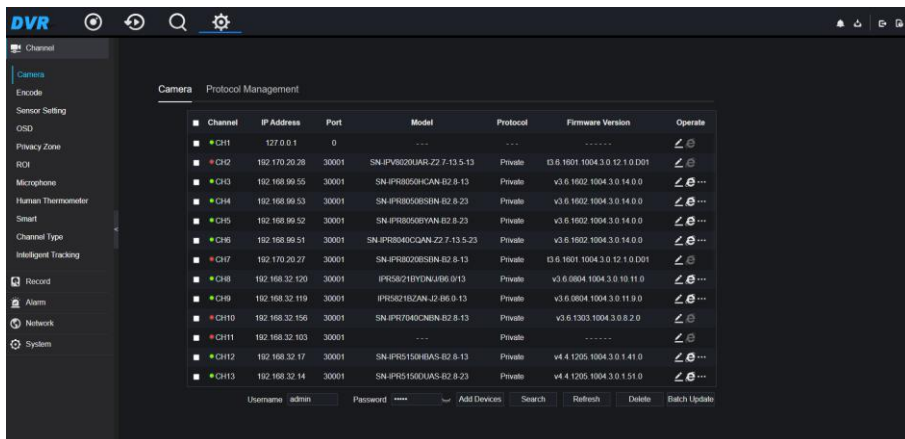
Users can set parameters about camera, encode, sensor setting, OSD and privacy zone.

9.1.1 Camera

9.1.1.1 Camera

Step 1 On the **System Setting** screen, choose **Channel > Camera** to access the camera interface, as shown in Figure 9-1.

Figure 9-1 Camera interface



Step 2 Input username and password (both default values are admin), and click

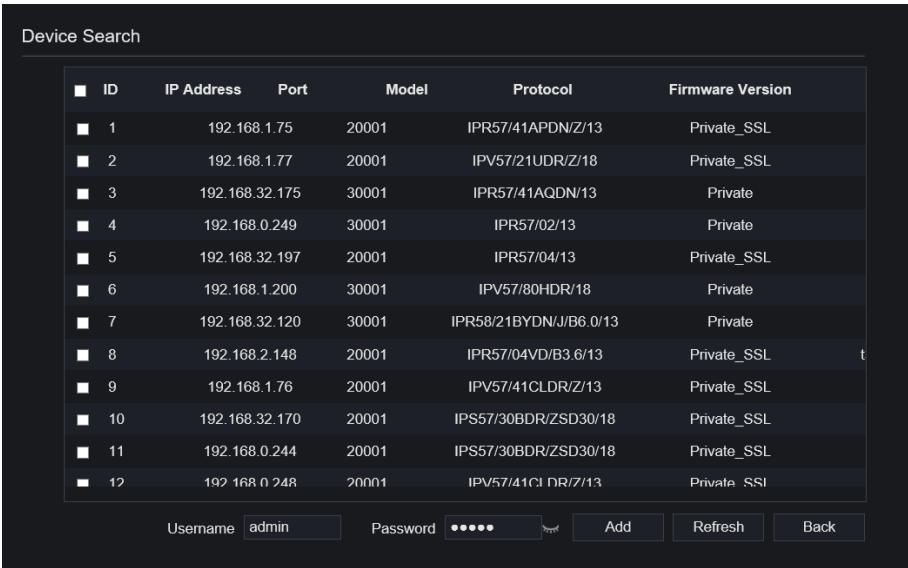
Click To Add

add cameras automatically.

Step 3 Click to search cameras at the same LAN as DVR, as shown in Figure 9-2.

Choose the camera, input username and password, click **Add** to add new cameras.

Figure 9-2 Device search



Step 4 Click **Back** to back to camera interface.

Step 5 Click **Refresh** to refresh cameras status.

Step 6 Choose the cameras and click **Delete** to delete.

Step 7 Click **Batch Update** to update all selected cameras at once, the pop-up window would show to select software.




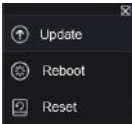
Step 8 Click  to modify the information of device parameters, as shown in Figure 9-3.

Figure 9-3 Modify device parameters

Step 9 Click  to access web immediately.

Step 10 Click  to update, reboot or reset the selected camera, as  shows.

The pop-up message “Are you sure to restart the device?” “Are you sure to reset? Reserve IP Address” would respectively show.

NOTE



: it indicates the camera is online, users can view the live video immediately.

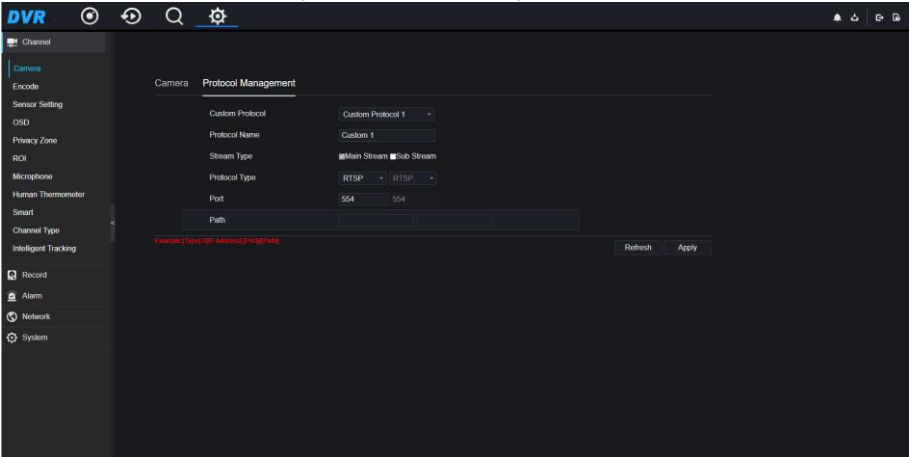


: it indicates the camera is offline, it maybe not connected to the network, or the password is incorrect. User access to the modify device parameters interface to change.

9.1.1.2 Protocol Management

At protocol management, you can set the custom protocol for adding cameras. For more details please refer *7.3.1.5 Protocol Management*

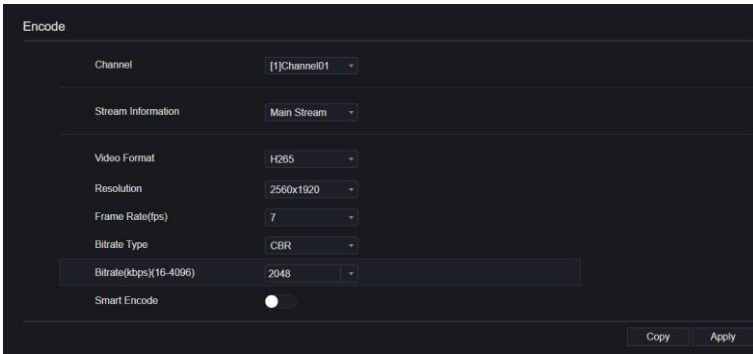
Figure 9-4 Protocol management



9.1.2 Encode

Step 1 On the **System Setting** screen, choose **Channel > Encode** to access the encode interface, as shown in Figure 9-5.

Figure 9-5 Encode interface



Step 2 Select a channel from drop-down list.

Step 3 Select stream information, encode type, resolution, frame rate, bitrate control and bitrate from drop-down list.

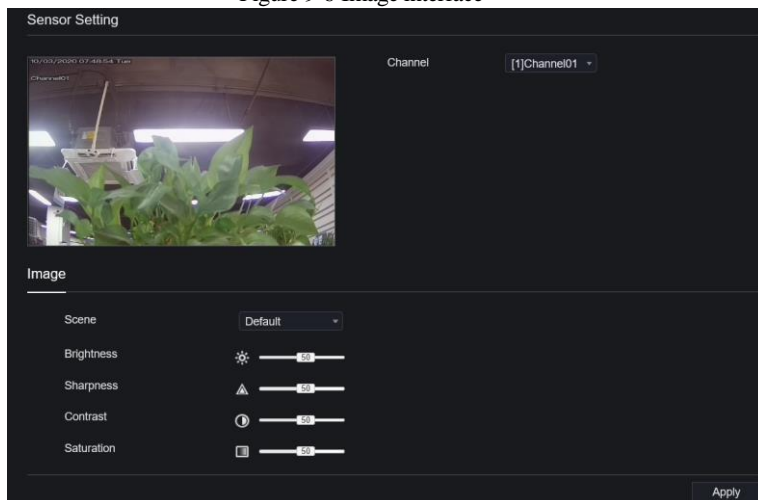
Step 4 Click **Copy** to choose other cameras to copy settings. Click **Apply** to save the settings.

----End

9.1.3 Sensor Setting

Step 1 On the **System Setting** screen, choose **Channel >Sensor Setting** to access the sensor setting interface, as shown in Figure 9-6.

Figure 9-6 Image interface



Step 2 Select a channel and scene from drop-down list.

Step 3 Set image parameters, like scene, brightness, sharpness, contrast and saturation.

Step 4 Other parameters are for camera's sensor setting, please refer IP cameras' settings.

Step 5 Click **Copy** to copy settings to other cameras. Click **Apply** to save the settings.

 **NOTE**

The analog cameras can only adjust the image parameters.

Brightness: It indicates the total brightness of an image. As the value increases, the image becomes brighter.

Sharpness: It indicates the border sharpness of an image. As the value increases, the borders become clearer, and the number of noise points increases.

Saturation: It indicates the color saturation of an image. As the value increases, the image becomes more colorful.

Contrast : It indicates the measurement of different brightness levels between the brightest white and darkest black in an image. The larger the difference range is, the greater the contrast; the smaller the difference range is, the smaller the contrast.

Scene: It includes indoor, outdoor, default. Mirror includes normal, horizontal, vertical, horizontal + vertical.

Exposure: It includes mode, max shutter, meter area and max gain.

White balance: It includes tungsten, fluorescent, daylight, shadow, manual, etc.

Day-night: Users can transit day to night, or switch mode.

Noise reduction: It includes 2D NR and 3D NR.

Enhance image: It includes WDR, HLC, BLC, defog and anti-shake.

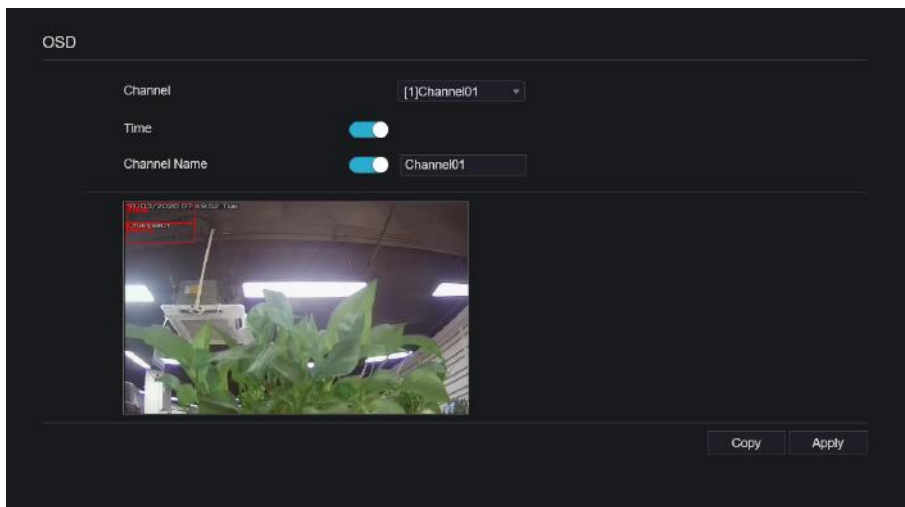
Zoom focus: Users can zoom and focus.

----End

9.1.4 OSD

Step 1 On the **System Setting** screen, choose **Channel >OSD** to access the OSD interface, as shown in Figure 9-7.

Figure 9-7 OSD interface



Step 2 Select a channel and scene from drop list.

Step 3 Enable time and channel name. You can set channel name. Drag the icon of Channel Name or Date and Time to move, select the location.

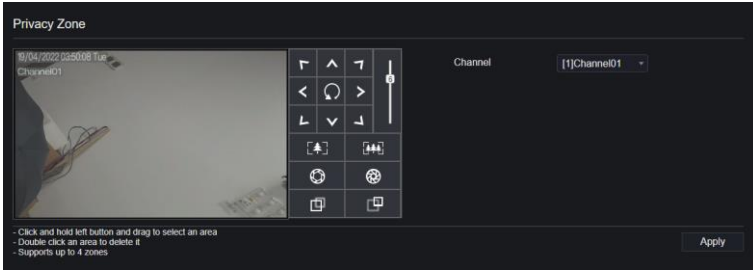
Step 4 Click **Copy** to copy settings to other cameras. Click **Apply** to save the settings.

----End

9.1.5 Privacy Zone

Step 1 On the **System Setting** screen, choose **Channel > Privacy Zone** to access the privacy zone interface, as shown in Figure 9-8.

Figure 9-8 Privacy interface



Step 2 Select a channel from drop-down list .

Step 3 Drag the mouse to select area to cover with rectangle frame. You can set less than four areas to be covered. Double click to delete the area.

Step 4 PTZ can be used for adjusting the IP dome cameras.

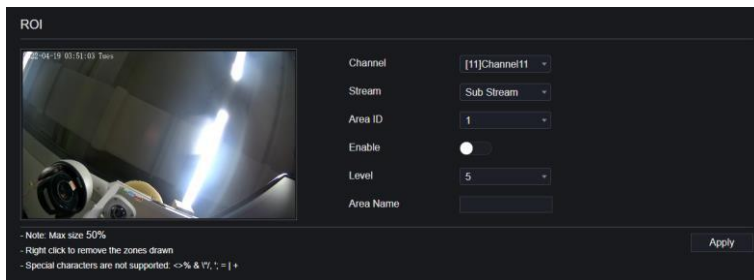
Step 5 Click **Copy** to copy settings to other cameras. Click **Apply** to save the settings.

----End

9.1.6 ROI

ROI(Region of interest), choose channel, stream, area ID and draw the area, as shown in Figure 9-9. Set the level, there are five levels can be chosen. Set area name, click “Apply” to save the settings.

Figure 9-9 ROI interface



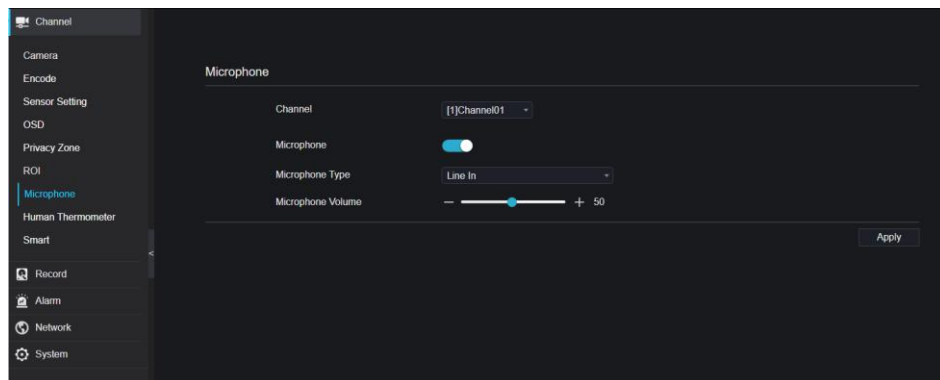
9.1.7 Microphone

NOTE

This function is only applicable to some models with microphone.

Users can set the microphone parameters of channel, as shown in Figure 9-10.

Figure 9-10 Microphone interface



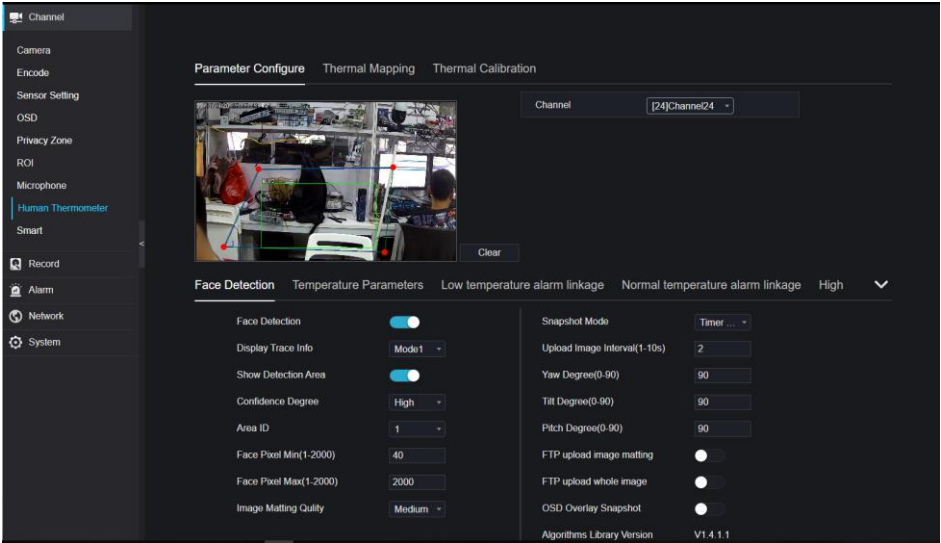
9.1.8 Human Thermometer

NOTE

This function is only applicable to some models.

Users can set the parameters of human thermometer cameras, such as parameter configure, thermal mapping, thermal calibration, as shown in Figure 9-11, for more details please refer to the UI settings.

Figure 9-11 Human thermometer interface



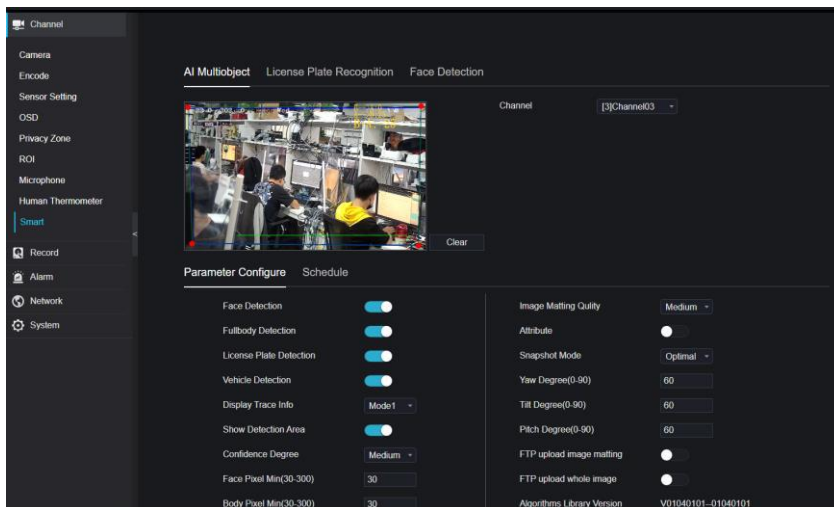
9.1.9 Smart

NOTE

This function is only applicable to some models.

At smart interface, users can set AI multiobject, license plate recognition, face detection, as shown in Figure 9-12.

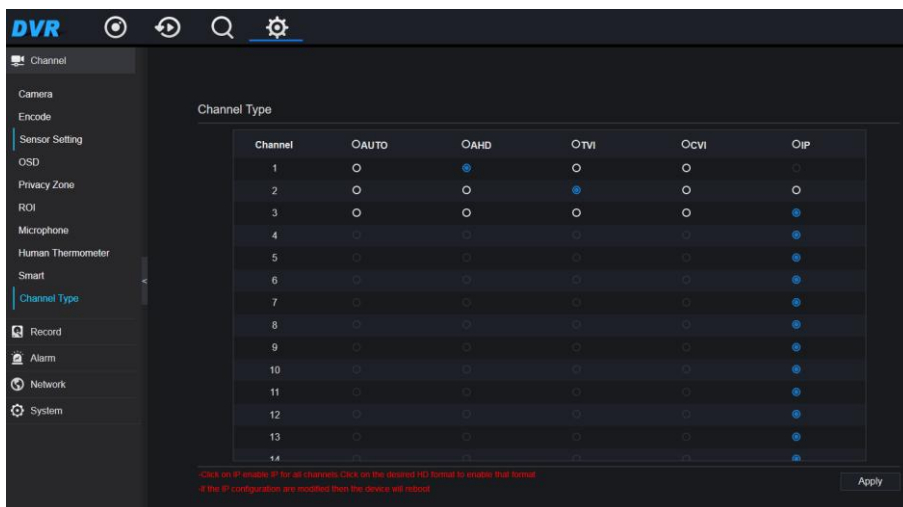
Figure 9-12 Smart interface



9.1.10 Channel Type

Set the analog channels type, the bottom channel should be set first, or set all analog channels at once.

Figure 9-13 Channel type interface



----End

9.1.11 Intelligent Tracking

NOTE

This function is only applicable to some models (high speed PTZ camera).

More detail information please refer to *7.3.11 Intelligent Tracking (Only for Some Model)*

9.2 Record

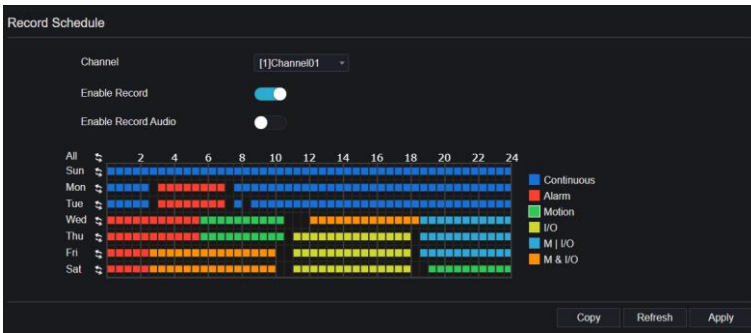
Users can set record policy in storage interface.

9.2.1 Record Schedule

Procedure


Step 1 On the **System Setting** screen, choose **Record > Record schedule** to access the record schedule interface, as shown in Figure 9-14.

Figure 9-14 Record schedule interface


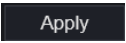


Step 2 Select a channel .

Step 3 Enable the record, then enable record audio.

Step 4 Set the record schedule, you can drag the mouse to choose area, click  to choose all day or all week, you can also click one by one to set the schedule. Or dray the mouse cursor to choose. Users can set the alarm recording to save the space of disk.

Step 5 Click  to return the previous settings.

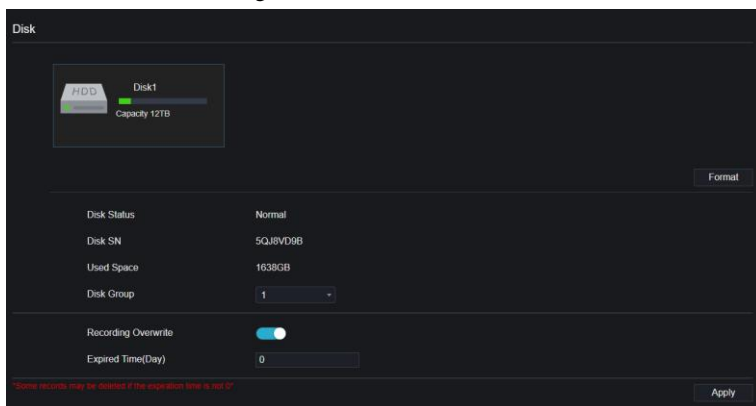
Step 6 Click  to copy settings to other cameras. Click  to save the settings.

----End

9.2.2 Disk

Step 1 On the **System Setting** screen, choose **Record >Disk** to access the disk interface, as shown in Figure 9-15.

Figure 9-15 Disk interface



Step 2 You can view the information like capacity, disk status, disk SN code and used space.

Step 3 Click **Format** to delete all data. Before deleting data user will view pop-up window

“Are you sure to format disk? Your data will be lost”. Click **OK** to delete, click

Cancel to quit.

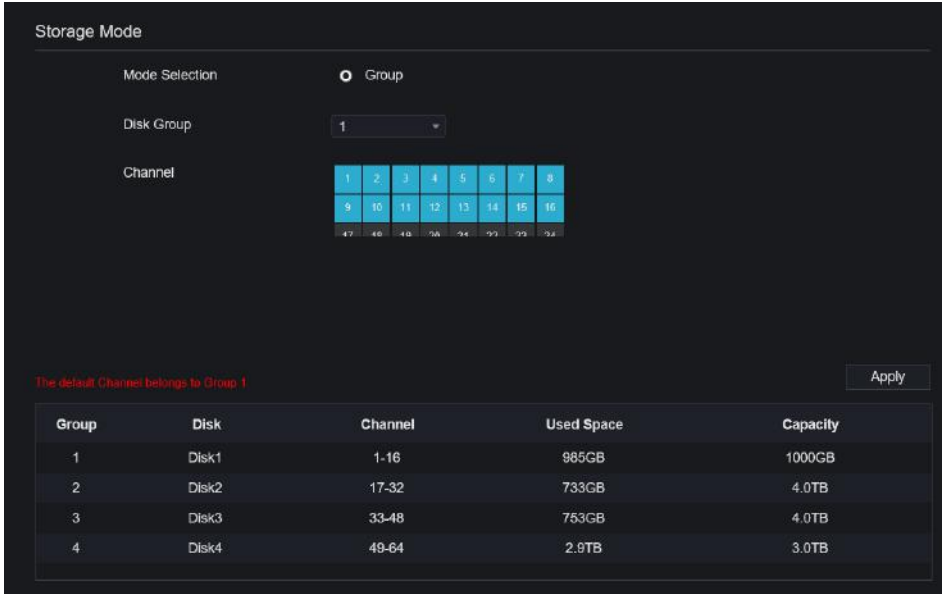
Step 4 Set the expired time, it is up to 90 days.

----End

9.2.3 Storage Mode

Divide channels into different disk groups as needed and using the disk capacity efficiently, as shown in Figure 9-16.

Figure 9-16 Storage Mode interface



Operation Steps

- Step 1 Choose the disk group.
- Step 2 Select the channel to recorded to disk group.
- Step 3 Click **Apply** to save the settings.
- Step 4 The group list will show the detail information.

----End

9.2.4 S.M.A.R.T

S.M.A.R.T is Self-Monitoring Analysis and Reporting Technology, users can view the health of disk, as shown in Figure 9-17.

Figure 9-17 S.M.A.R.T interface

S.M.A.R.T

Disk: Disk1

Disk SN: W5257MN2 Disk Model: ST2000VX008-2E3164

Temperature: 37.0 C Working Time: 1.0 Year

Disk Health: GOOD

ID	Attribute Name	Status	Value	Worst	Thresh	Type	Raw value
1	raw-read-error-rate	OK	116	99	6	prefail	0x506d92060000
3	spin-up-time	OK	96	95	0	prefail	0x000000000000
4	start-stop-count	OK	100	100	20	old-age	0x136200000000
5	reallocated-sector-count	OK	100	100	10	prefail	0x000000000000
7	seek-error-rate	OK	75	60	30	prefail	0x64fe00020000
9	power-on-hours	OK	90	90	0	old-age	0x772200000000
10	spin-retry-count	OK	100	100	97	prefail	0x000000000000
12	power-cycle-count	OK	100	100	20	old-age	0x110200000000
184	end-to-end-error	OK	100	100	99	old-age	0x000000000000
187	reported-uncorrect	OK	100	100	0	old-age	0x000000000000
188	command-timeout	OK	100	100	0	old-age	0x000000000000

----End

9.2.5 Disk Calculation

You can choose different calculation, computing capacity and computation time.

Figure 9-18 Disk Calculation

Top Screenshot: Computing Capacity

Currently total camera(s) bitrate: 59.31 Mbps

Calculation Mode: Computing Cap... (dropdown)

Expect to save time: 10 (input) Day (dropdown)

Recording time per day: 24 h (slider)

The required disk space: 6.72 TB (displayed in a circle)

Bottom Screenshot: Computation Time

Currently total camera(s) bitrate: 59.31 Mbps

Calculation Mode: Computation time (dropdown)

Disk Capacity: 10 TB (dropdown)

Recording time per day: 24 h (slider)

The recording time for 10TB disk capacity is: 14.89 Day (displayed in a circle)

----End

9.2.6 FTP

Set the FTP path to receive the alarm information, as shown in Figure 9-19. For more details, please refer to [7.4.7 FTP](#).

Figure 9-19 FTP

The screenshot shows a dark-themed configuration window for FTP. At the top left, the title 'FTP' is displayed. Below it, there are several rows of settings:

- 'Enable FTP Upload' with a toggle switch that is currently turned off.
- 'FTP Address' with an empty text input field.
- 'FTP Port' with a text input field containing the number '21'.
- 'Account' with an empty text input field.
- 'Password' with a text input field and a small 'Show' button to its right.
- 'FTP Path' with an empty text input field.
- 'Upload File Size(0-64MB)' with a text input field containing the number '5'.

At the bottom of the window, there is a 'Test' button centered below the 'Upload File Size' field, and an 'Apply' button in the bottom right corner.

9.3 Alarm

Users can set **General**, **Motion Detection**, **Camera Tamper**, **Video Loss**, **Intelligent Analysis** and **Alarm in** on alarm interface.

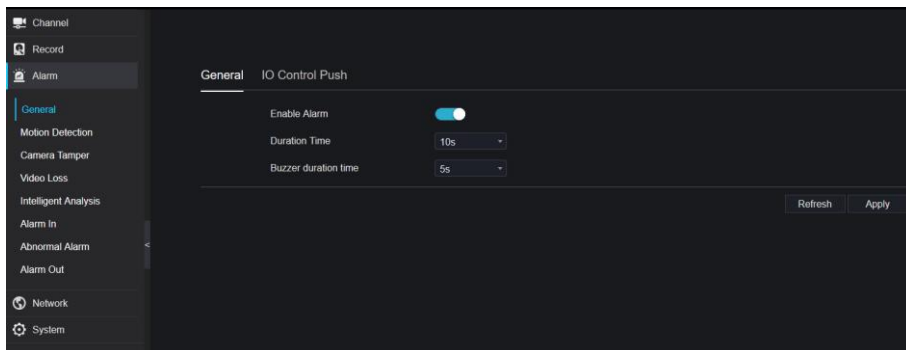
9.3.1 General

9.3.1.1 General

Procedure

- Step 1 On the **System Setting** screen, choose **Alarm > General** to access the general interface.
- Step 2 Enable alarm to set duration time and buzzer duration time, as shown in Figure 9-20.

Figure 9-20 General interface



Step 3 Click **Apply** to save settings. Click **Refresh** to return to the previous settings.

----End

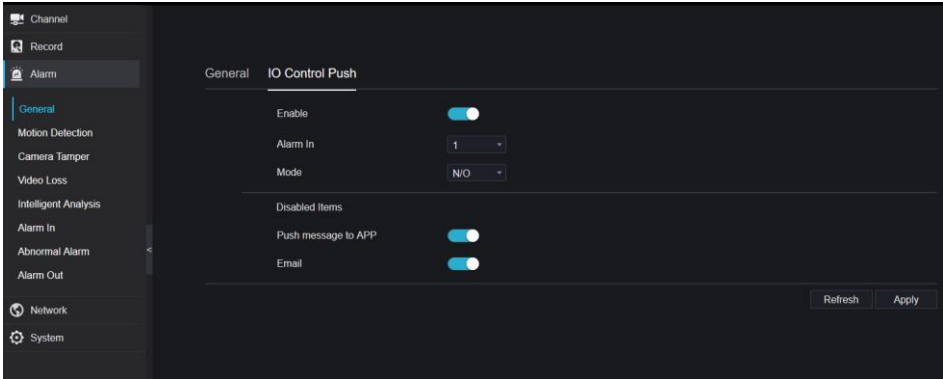
9.3.1.2 IO Control Push

Procedure

Step 4 On the **System Setting** screen, choose **Alarm > General > IO Control Push** to access the general interface.

Step 5 Enable the IO control push, as shown in Figure 9-21.

Figure 9-21 IO control push interface



Step 6 Choose one alarm in and mode(N/C, N/O).

Step 7 Tick the disable items, click “Apply” to save setting.

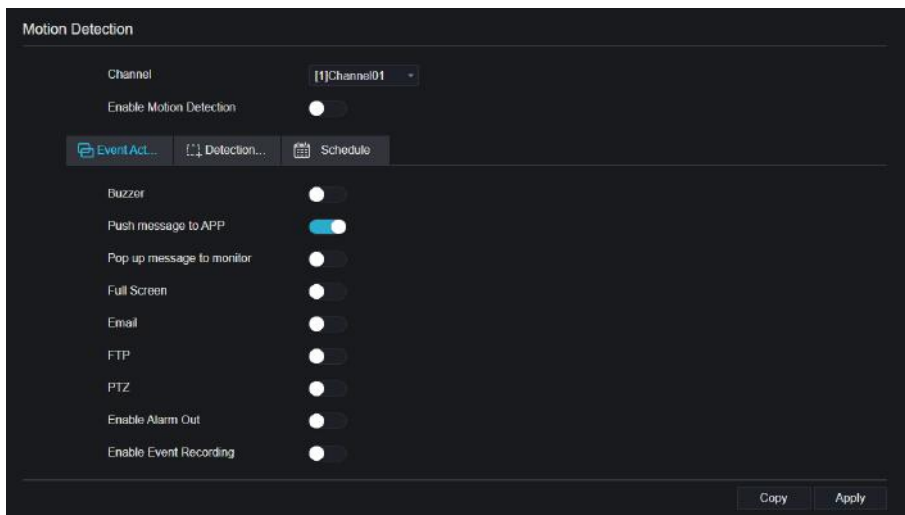
----End

9.3.2 Motion Detection

Procedure

Step 1 On the **System Setting** screen, choose **Alarm > Motion Detection** to access the motion detection interface, as shown in Figure 9-22.

Figure 9-22 Motion detection interface



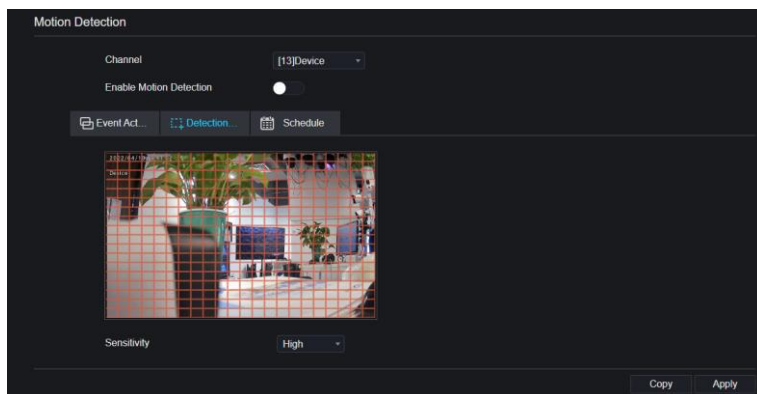
Step 2 Click channel drop-down list to choose channel.

Step 3 Enable motion detection alarm.

Step 4 Set **Event Activity**.

Step 5 Click **Area** to access the motion detection area setting, as shown in Figure 9-23.

Figure 9-23 Motion detection area interface



1. Hold down and drag the left mouse button to draw a motion detection area.
2. Select a value from the drop-down list next to **Sensitivity**.
3. Double -click the chosen area to delete it.

Step 6 Click **Schedule** to access schedule settings, drag and release mouse to select the alarming time within 00:00-24:00 from Monday to Sunday. Click the chosen area can cancel. The settings of alarm schedule are same as disk schedule.

Step 7 Click **Copy** to copy settings to other cameras. Click **Apply** to save the settings.

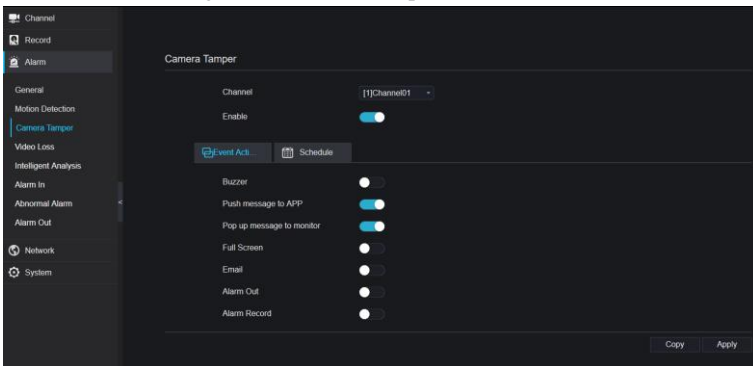
---End

9.3.3 Camera Tamper

Procedure

Step 1 On the **Camera Tamper** screen, choose **Alarm > Camera Tamper** to access the Camera Tamper interface, as shown in Figure 9-24.

Figure 9-24 Camera tamper interface



Step 2 Click drop-down list to choose channel.

Step 3 Enable the camera tamper alarm.

Step 4 Set event activity and schedule please refer to *Figure 5-1 motion detection settings* .

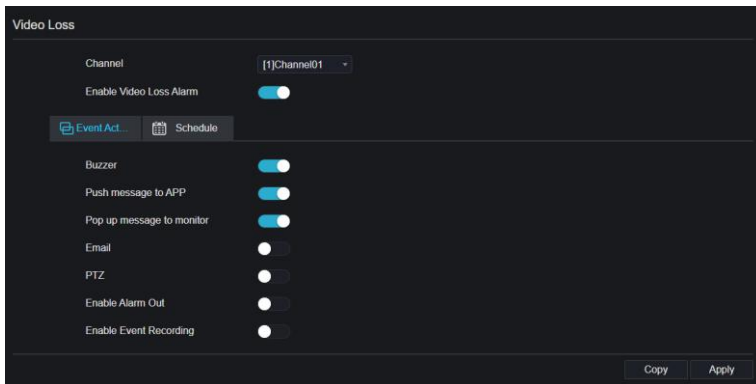
Step 5 Click **Copy** to copy settings to other cameras. Click **Apply** to save the settings.

9.3.4 Video Loss

Procedure

Step 1 On the **System Setting** screen, choose **Alarm > Video Loss** to access the video loss interface, as shown in Figure 9-25.

Figure 9-25 Video loss interface



Step 2 Click drop-down list to choose channel.

Step 3 Enable the video loss alarm.

Step 4 Set event activity and schedule please refer to *Figure 5-1 motion detection settings* .

Step 5 Click **Copy** to copy settings to other cameras. Click **Apply** to save the settings.

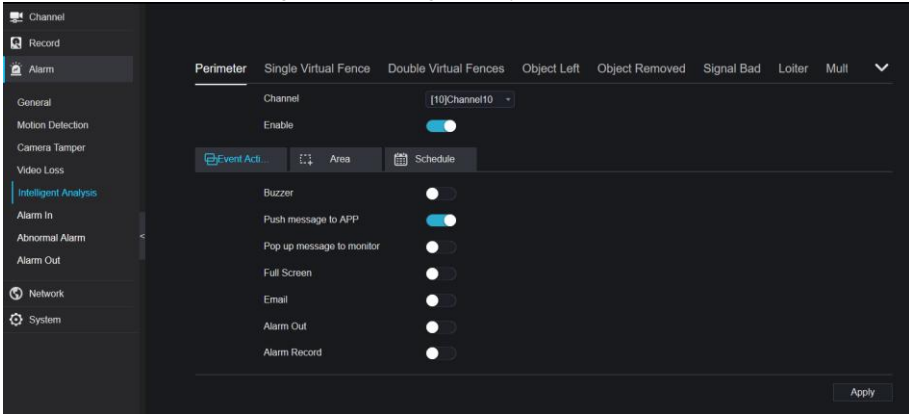
----End

9.3.5 Intelligent Analysis

Procedure

Please refer to chapter 7.6.1 *video loss settings*, interface displayed as shown in Figure 9-26.

Figure 9-26 Intelligent analysis interface

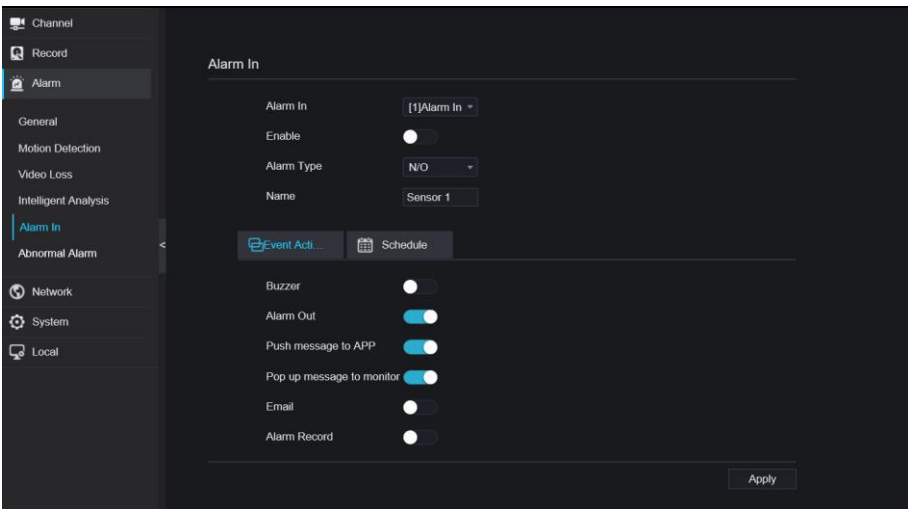


9.3.6 Alarm In

Procedure

Step 1 On the **System Setting** screen, choose **Alarm > Alarm In** to access the alarm in interface, as shown in Figure 9-27.

Figure 9-27 Alarm in interface



Step 2 Click drop-down list to choose alarm in .

Step 3 Enable the button, choose alarm type.

Step 4 Set name, the default is Sensor 1.

Step 5 Set event activity and schedule, please refer to *motion detection settings* .

Step 6 Click **Apply** to save settings.

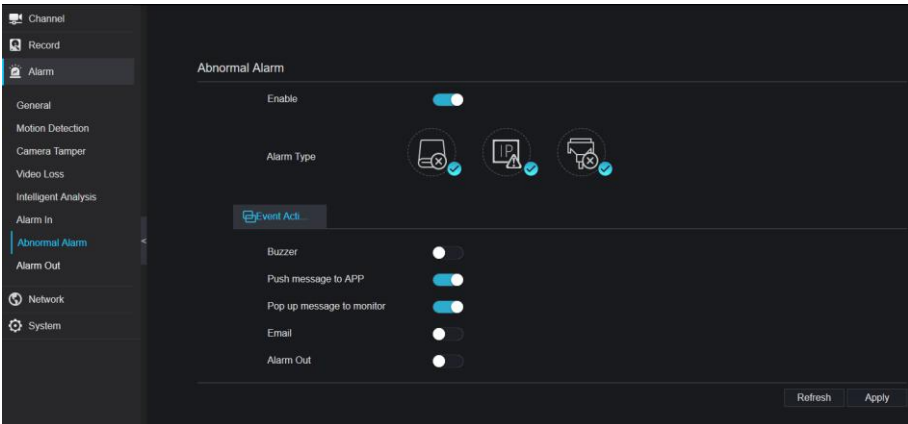
----End

9.3.7 Abnormal Alarm

Procedure

Step 1 On the **System Setting** screen, choose **Alarm > Abnormal Alarm** to access the abnormal alarm interface, as shown in Figure 6-18.

Figure 9-28 Abnormal alarm interface



Step 2 Enable the button, tick alarm type.

Step 3 Set event activity and schedule please refer to *motion detection settings* .

Step 4 Click **Apply** to save settings.

----End

9.3.8 Alarm out

Set the alarm out, the devices and cameras, as shown in Figure 9-29 and Figure 9-30.

Figure 9-29 Alarm out interface

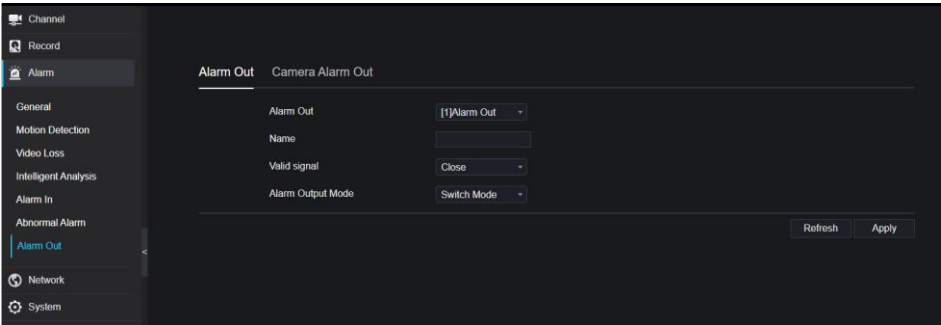
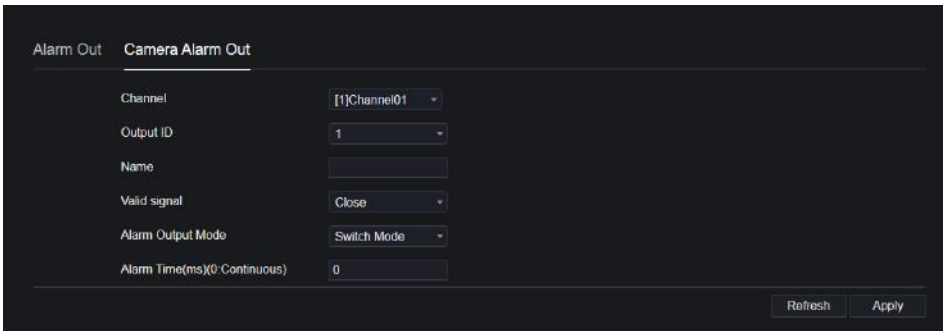


Figure 9-30 Camera alarm out interface



9.4 Network

Users can set Network, DDNS, E-mail, UPnP, P2P, IP Filter, 802.1X, SNMP and Web Mode.


9.4.1 Network

Procedure


Step 1 On the **System Setting** screen, choose **Network > Network** to access the network interface, as shown in Figure 9-31.

Figure 9-31 Network interface



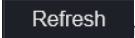
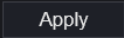
Step 2 Click  next to **IP** to enable or disable the function of automatically getting an IP address. The function is enabled by default.

If the function is disabled, click input boxes next to **IP**, **Subnet mask**, and **Gateway** to set the parameters as required.

Step 3 Click  next to **Obtain DNS Automatically** to enable or disable the function of automatically getting a DNS address. The function is enabled by default.

If the function is disabled, click input boxes next to **DNS1** and **DNS2**, delete original addresses, and enter new addresses.

Step 4 Set **PORT** manually, input the information about these.

Step 5 Click  to restore previous settings. Click  to save the settings.

----End

9.4.2 DDNS

Procedure

Step 1 Click **DDNS** in the network interface, choose **Network > DDNS** to access the DDNS interface as shown in Figure 9-32.

Figure 9-32 DDNS interface



Step 2 Click the button to enable the DDNS function. It is disabled by default.

Step 3 Select a required value from the **protocol** drop-down list.

Step 4 Set domain name, user, and password.

Step 5 Click **Refresh** to restore previous settings. Click **Apply** to save the settings.



NOTE

An external network can access an address specified in the DDNS settings to access the DVR.

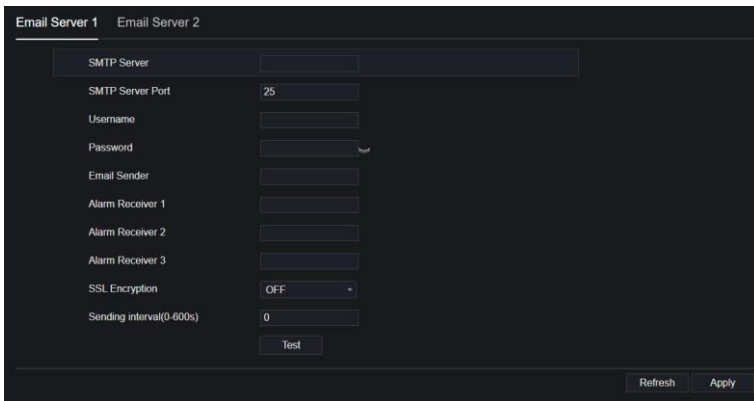
----End

9.4.3 Email

Procedure

Step 1 Click **Email** in the network interface, choose **Network > Email** to access the Email interface, as shown in Figure 9-33

Figure 9-33 Email interface



Step 2 Set SMTP server and SMTP server port manually.

Step 3 Set sender Email, user name and password manually.

Step 4 Set Email for receiving alarm the message.

Step 5 Set Email for retrieving the password the message.

Step 6 Click **SSL Encryption** drop-down list to enable safeguard of email.

Step 7 Click **Refresh** to restore previous settings. Click **Apply** to save the settings.

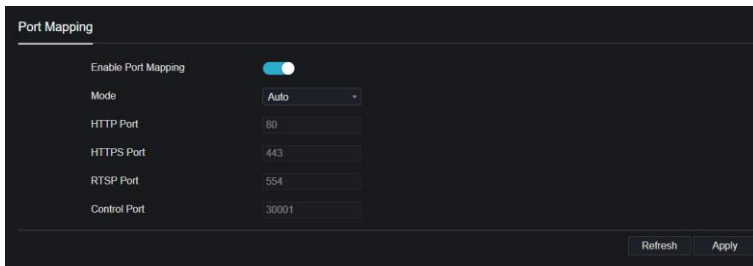
----End

9.4.4 Port Mapping

Procedure

Step 1 Click **Port Mapping** in the network interface, choose **Network > Port Mapping** to access the Port Mapping interface as shown in Figure 9-34.

Figure 9-34 Port Mapping interface



Enable Port Mapping	<input checked="" type="checkbox"/>
Mode	Auto
HTTP Port	80
HTTPS Port	443
RTSP Port	554
Control Port	30001

Step 2 Select manner from UPnP enable drop list. The default value is auto.

Step 3 After **Mode** is manual, set the HTTP port, HTTPS port, RTSP port and Control port manually.

Step 4 Click **Refresh** to restore previous settings. Click **Apply** to save the settings.



NOTE

Auto: The system perform Port Mapping automatically.

Manual: The ports are distributed by the router. Please refer to the information on the router when entering them.

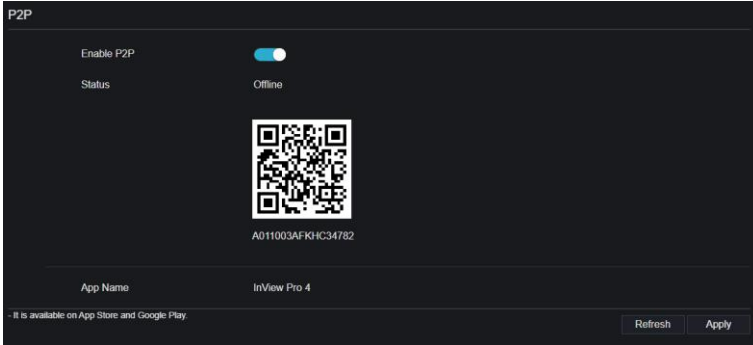
----End

9.4.5 P2P

Procedure

Step 1 Click **P2P** in the network interface, choose **Network > P2P** to access the P2P interface, as shown in Figure 9-35.

Figure 9-35 P2P interface



Step 2 Click **Enable** to enable the P2P function.

Step 3 Click **Refresh** to restore previous settings. Click **Apply** to save the settings.

Step 4 After the Inview Pro4 is installed in mobile phone, run the APP and scan the UUID QR code to add then access the DVR when the device is online.

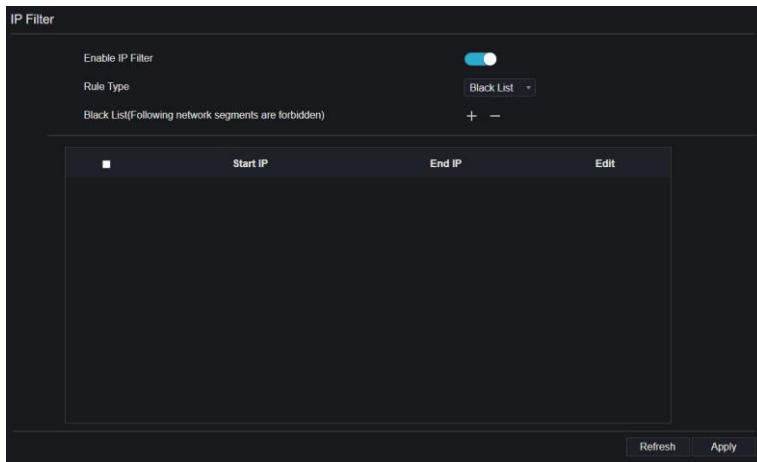
----End

9.4.6 IP Filter

Procedure


Step 1 Click **IP Filter** in the network interface, choose **Network > IP Filter** to access the IP filter interface, as shown in Figure 9-36.

Figure 9-36 IP filter interface



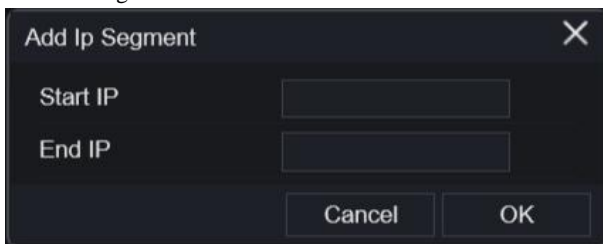
Step 2 Click **Enable** to enable the IP filter function.

Step 3 Click drop-down list of rule type to choose black list or white list.


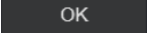
Step 4 Click , view the pop-up windows to set black list or white list, as shown in 7.7.5.


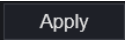
Click  to delete the list.

Figure 9-37 Black or white list interface



Step 5 Set start IP and end IP.

Step 6 Click  to cancel settings, click  to save the settings.

Step 7 Click  to restore previous settings. Click  to save the settings.

 **NOTE**

Black list: A list of IP addresses that are regarded as unacceptable or untrustworthy and should be excluded or avoided.

White list: A list of IP addresses considered to be acceptable or trustworthy. Select a name in the list and click **Delete** to delete the name from the list.

Select a name in the list and click **Edit** to edit the name in the list.

Only one rule type is available, and the last rule type set is efficient.

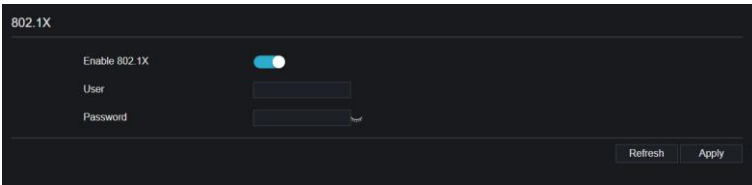
----End

9.4.7 802.1X

Procedure

Step 1 Click **802.1X** in the network interface, 802.1X interface is displayed, enable the button, as shown in Figure 9-38.

Figure 9-38 802.1X interface



Step 2 Input the user and password of 802.1X authentication.

Step 3 Click **Refresh** to restore previous settings. Click **Apply** to save the settings.

----End

9.4.8 SNMP

There are three versions of simple network management protocol at interface.

Figure 9-39 SNMP interface

SNMP

SNMPV1

SNMPV2C

Write Community

Read Community

Trap Address

Trap Port 162

Trap Community

SNMPV3

Refresh Apply

SNMPV3

Read Security Name

Security Level noauth

Auth Algorithm MD5

Auth Password

Encry Algorithm DES

Encry Password

Write Security Name

Security Level noauth

Auth Algorithm MD5

Auth Password

Encry Algorithm DES

Encry Password

Refresh Apply

9.4.9 Web Mode

Step 1 Click **Web Mode** in the network interface, Web mode interface is displayed, as shown in Figure 9-40.

Figure 9-40 Web mode interface

Web Mode

Enable HTTPS

Modifying the settings device will restart

Refresh Apply

Step 2 Enable the https, the device will restart and start https secure.

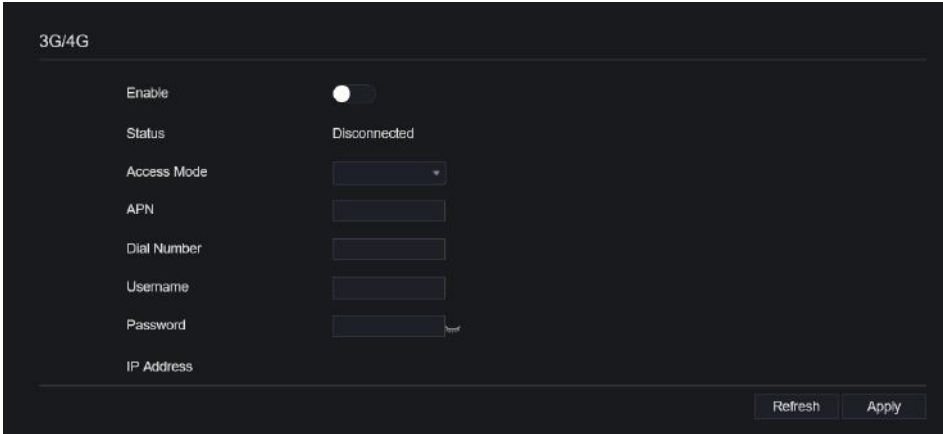
Step 3 Click **Refresh** to restore previous settings. Click **Apply** to save the settings.

----End

9.4.10 3G/4G

Step 1 Click **3G/4G** in the network interface, as shown in Figure 9-41.

Figure 9-41 3G/4G interface



Step 2 Plug the modem to DVR.

Step 3 Enable the 3G/4G.

Step 4 When it is connected, set the access mode. **AUTO** is recommended.

Step 5 If choose other access modes, user should input the parameters correctly.

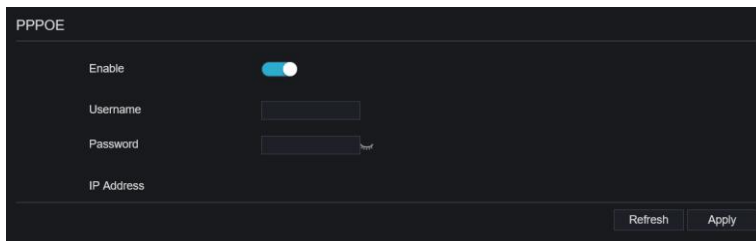
Step 6 Click **Refresh** to restore previous settings. Click **Apply** to save the settings.

----End

9.4.11 PPPOE

Users can use PPPOE function to manage the DVR conveniently, as shown in Figure 9-42.

Figure 9-42 PPPOE interface



The screenshot shows the PPPOE configuration interface. It features a dark background with white text. At the top, the title 'PPPOE' is displayed. Below the title, there are four rows of settings: 'Enable' with a toggle switch turned on, 'Username' with an empty text input field, 'Password' with an empty text input field and a small 'type' label to its right, and 'IP Address' with an empty text input field. At the bottom right of the interface, there are two buttons: 'Refresh' and 'Apply'.

Step 1 Enable the PPPOE.

Step 2 Input the username and password.

Step 3 The IP address is obtained automatically.

Step 4 Click **Refresh** to restore previous settings. Click **Apply** to save the settings.

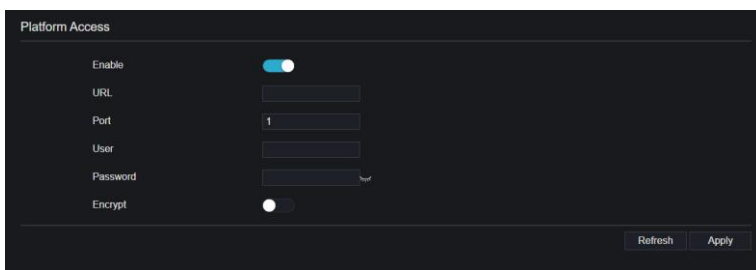
Step 5 Use the IP address to access DVR immediately.

----End

9.4.12 Platform Access

For more details please refer to *7.6.13 Platform Access*.

Figure 9-43 Platform access



The screenshot shows the Platform Access configuration interface. It features a dark background with white text. At the top, the title 'Platform Access' is displayed. Below the title, there are six rows of settings: 'Enable' with a toggle switch turned on, 'URL' with an empty text input field, 'Port' with a text input field containing the value '1', 'User' with an empty text input field, 'Password' with an empty text input field and a small 'type' label to its right, and 'Encrypt' with a radio button that is currently unselected. At the bottom right of the interface, there are two buttons: 'Refresh' and 'Apply'.

9.5 System

Users can set parameters about information, general, user, password, logs, maintenance and auto restart.

9.5.1 Device Information

Procedure




Step 1 Click  on the navigation bar, the device information interface is displayed, as shown in Figure 9-44.

Figure 9-44 Device information interface

System	Network	Channel	Disk	Alarm
Device ID	A011003AFKHC34782			
Device Name	Device			
Device Type	DVR			
Model	ADR3816E2			
Firmware Version	v4.6.1611.0000.003.0.2.20.0			
U-boot Version	1603010F0F28			
Kernel Version	1603010F0A1E			
HDD Number	2			
Channels Supported	24			
Alarm In	4			
Alarm Out	1			
Audio In	6			
Audio Out	1			

Step 2 Set the device name according to Table 9-1.

Table 9-1 Device parameters

Parameter	Description
System	The basic information of device.
Network	The network information of the device.
Channel	The status of channels
Disk	The status of disk(s)
Alarm	The information of IO alarm port.

----End

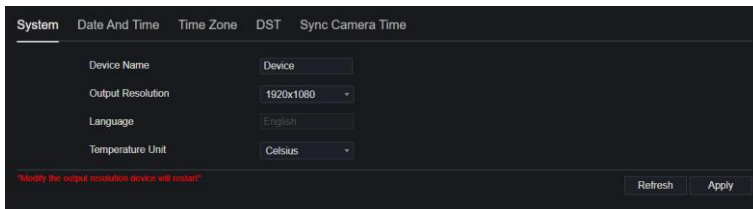
9.5.2 General

You can set system, date and time, time zone, DST and sync camera time general interface.

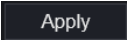
Procedure

Step 1 On the **System Setting** screen, choose **System >General** to access the general interface, as shown in Figure 9-45.

Figure 9-45 Basic setting interface



Step 2 Set system.

1. Input the device name.
2. Choose output resolution from drop list.
3. Set the temperature unit.
4. Click  to save the system setting.

Step 3 Set date and time.

1. Synchronize the time from the NTP server.
2. Click NTP Sync button to enable synchronize time. The default value is enabling.

Step 4 Enable NTP.

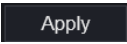
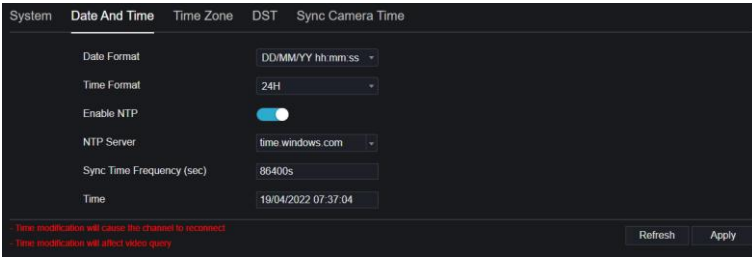
1. Select NTP server, date format and time format from drop list.
2. Click  to save date and time setting. The device time will synchronize with NTP server time.
3. Set the device time manually, as shown in Figure 9-46.
4. Click NTP Sync button to disable synchronize time.
5. Async date and time interface

Figure 9-46 Date and time



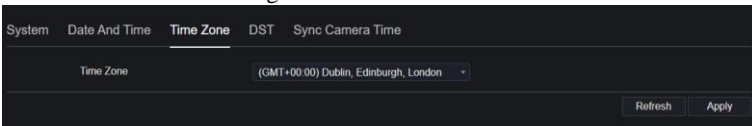
Step 5 Set the time zone.

1. Select date format and time format from the drop-down list.
2. Click **Apply** to save the device time setting. Click **Refresh** to return to previous setting.

Step 6 Set time zone.

Click **Time Zone** to enter the time zone setting interface, as shown in Figure 9-47.
Time zone setting interface

Figure 9-47 Time zone



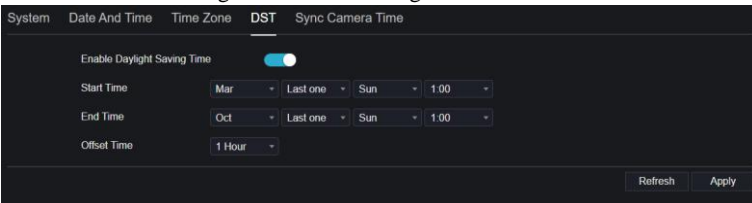
Select a time zone from the drop-down list.

Click **Apply** to save the time zone setting. Click **Refresh** to return to previous setting.

Step 7 Set DST.

1. Click DST to enter the DST setting interface, click DST button to enable, as shown in Figure 9-48. The button is disable by default.

Figure 9-48 DST setting interface

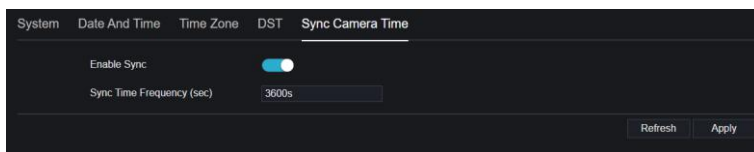


Select a start time from the drop-down list.

Select an end time from the drop-down list.

Select an offset time from the drop-down list.

Figure 9-49 Sync camera time



Enable sync camera time, the cameras of DVR management will show at the same time. Set the frequency of checks (minimum 10s).

Step 8 Click **Apply** to save the DST setting. Click **Refresh** to return to previous setting.

9.5.3 User

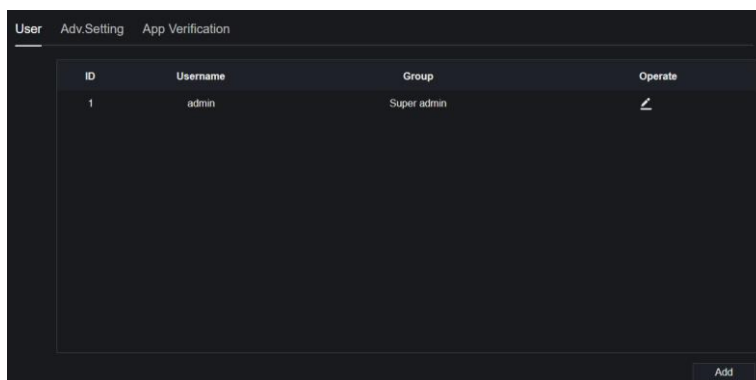
You can create new user accounts to manage the device.

9.5.3.1 Add User

Procedure

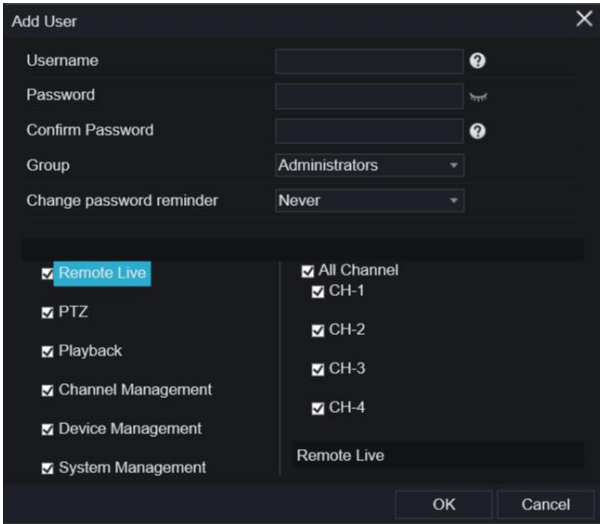
Step 1 On the **System Setting** screen, choose **System > User** to access the **User** interface, as shown in Figure 9-50.

Figure 9-50 User interface



Step 2 Click **Add** to add a new user, as shown in Figure 9-51.

Figure 9-51 Add user




Step 3 Input username, password and confirm password.


Step 4 Select group and change password reminder from drop-down list.


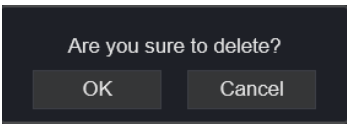
Step 5 Assign the privilege to users.

Step 6 Select channels to manage.

Step 7 Click , the message “**Add success**” shows. If the password does not

meet the rule, it would show .

Step 8 Click  to edit user’s information.

Step 9 Click  to delete the account, it would show , click

 to delete.

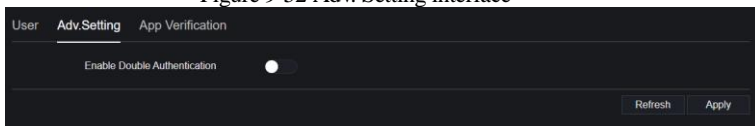
----End

9.5.3.2 Adv.Setting

Procedure

Step 1 On the **System Setting** screen, choose **System >User > Adv. Setting** to access interface, as shown in Figure 9-52.

Figure 9-52 Adv. Setting interface



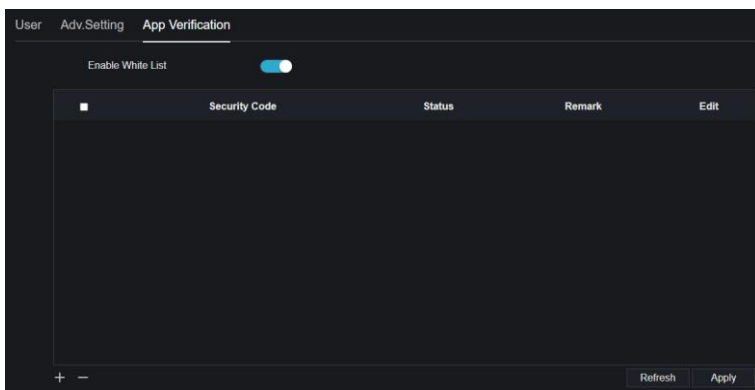
Step 2 Enable the **Password double authentication**. If the user want to playback video, he need input another username and password to authenticate.

Step 3 Click **Apply** to save the device time setting. Click **Refresh** to return to previous setting.

9.5.3.3 App Verification

For more details information please refer to [7.7.3.3 App Verification](#).

Figure 9-53 App Verification interface



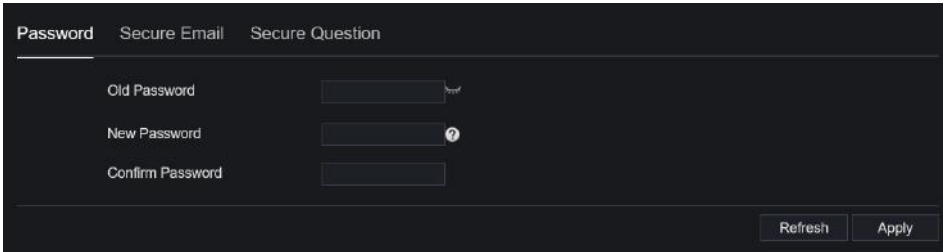
9.5.4 Security Center

9.5.4.1 Password

Procedure

Step 1 On the **System Setting** screen, choose **System >Security Center** to access password interface, as shown in Figure 9-54.

Figure 9-54 Password interface



The screenshot shows a dark-themed interface with three tabs at the top: 'Password', 'Secure Email', and 'Secure Question'. The 'Password' tab is selected. Below the tabs are three input fields: 'Old Password', 'New Password', and 'Confirm Password'. The 'New Password' field has a question mark icon to its right. At the bottom right of the interface are two buttons: 'Refresh' and 'Apply'.

Step 2 Input old password, new password and confirm password.

Step 3 Click **Apply** to save settings. Click **Refresh** to return to previous setting.

NOTE

Valid password range [6-32] characters.

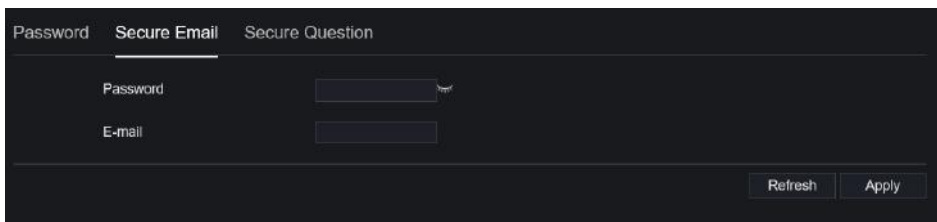
At least 2 kinds of numbers, lowercase, uppercase or special character contained.

Only special characters are support !@#*\$+=-.

----End

9.5.4.2 Secure Email

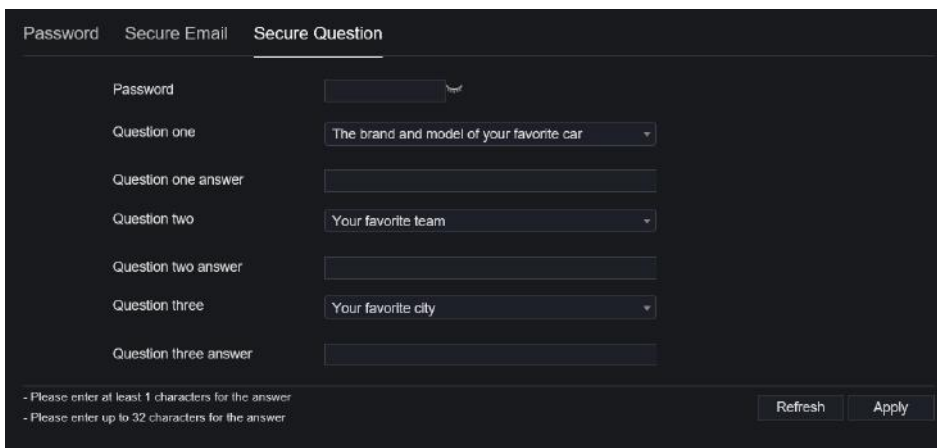
The secure email can receive the verification code of DVR, if users forgot the password accidentally.



System Setting interface showing the **Secure Email** tab. The Password field is active and contains a masked password. The E-mail field is empty. Refresh and Apply buttons are visible at the bottom right.

9.5.4.3 Secure Question

Users can modify the password to login the DVR if user forgot the password and answer correctly the secure questions.



System Setting interface showing the **Secure Question** tab. The Password field is active and contains a masked password. Three questions are listed: "The brand and model of your favorite car", "Your favorite team", and "Your favorite city". Each question has a corresponding answer field. Refresh and Apply buttons are visible at the bottom right.

- Please enter at least 1 characters for the answer
- Please enter up to 32 characters for the answer

---End

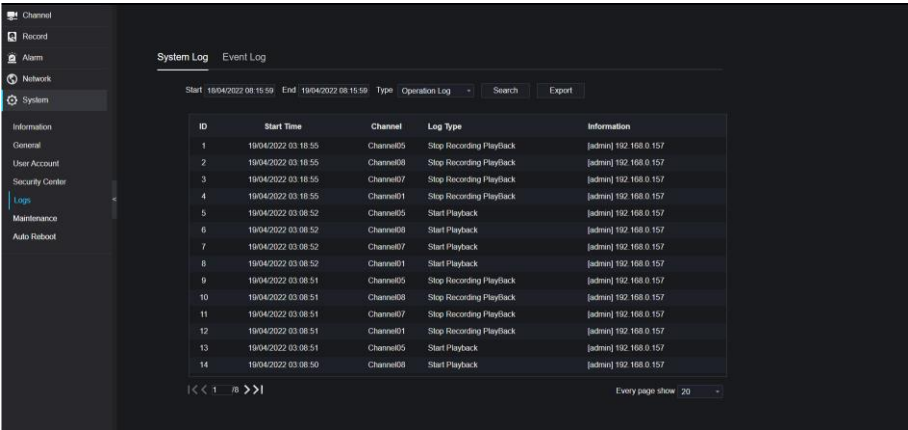
9.5.5 Logs

9.5.5.1 System Logs

Procedure

Step 1 On the **System Setting** screen, choose **System > Logs** to access logs interface, as shown in Figure 9-55.

Figure 9-55 Logs interface



Step 2 Set start and end time from calendar.

Step 3 Select log type from drop-down list.

Step 4 Click **Search** to acquire log information.

Step 5 Click **Export** to export the logs.

----End

9.5.5.2 Event Log

Procedure

Step 6 On the **System Setting** screen, choose **System > Logs > Event Log** to access logs interface, as shown in Figure 9-56.

Figure 9-56 Event interface

ID	Start Time	Channel	Log Type	Information
1	19/04/2022 08:20:16	Channel09	Motion Detection	Channel03
2	19/04/2022 08:20:06	Channel09	Motion Detection	Channel03
3	19/04/2022 08:19:40	Channel09	Motion Detection	Channel03
4	19/04/2022 08:19:40	Channel13	Video Loss	Device
5	19/04/2022 08:19:38	Channel13	Intrusion	Device
6	19/04/2022 08:19:36	Channel13	Intrusion	Device
7	19/04/2022 08:19:33	Channel13	Intrusion	Device
8	19/04/2022 08:19:30	Channel13	Intrusion	Device
9	19/04/2022 08:19:27	Channel13	Intrusion	Device
10	19/04/2022 08:19:25	Channel13	Intrusion	Device
11	19/04/2022 08:19:21	Channel13	Intrusion	Device
12	19/04/2022 08:19:19	Channel13	Intrusion	Device
13	19/04/2022 08:19:16	Channel13	Intrusion	Device
14	19/04/2022 08:19:13	Channel09	Motion Detection	Channel03

Step 7 Set start and end time from calendar.

Step 8 Select event type from drop-down list.

Step 9 Click **Search** to acquire log information.

Step 10 Click **Export** to export the event logs.

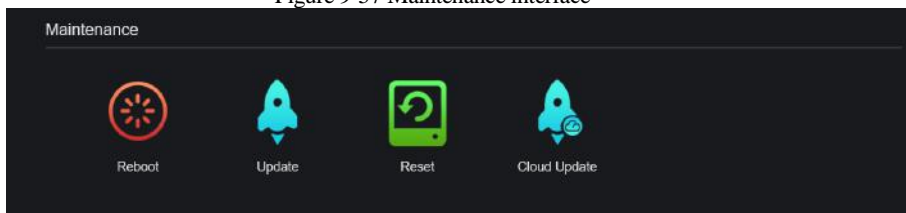
----End

9.5.6 Maintenance

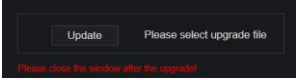
Procedure

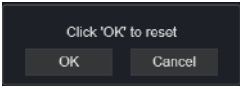
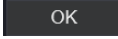
Step 1 On the **System Setting** screen, choose **System >Maintenance** to access maintenance interface, as shown in Figure 9-57.

Figure 9-57 Maintenance interface



Step 2 Click **Reboot**, the pop-up message would show, click **OK** to reboot.

Step 3 Click **Update**, the message shows , choose the software from specific location to update.

Step 4 Click **Reset**, the pop-up message  shows, click  to reset.

Step 5 If the device is online, and the cloud server has the software, click **Cloud Update**, it shows ‘make sure to update’, click **OK** to update.

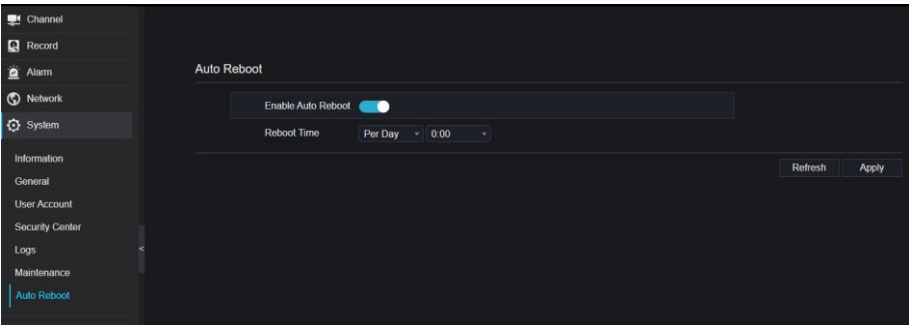
----End

9.5.7 Auto Reboot

Procedure

Step 1 On the **System Setting** screen, choose **System > Auto Reboot** to access auto restart enable the auto restart, the screen as shown in Figure 9-58.

Figure 9-58 Auto restart



Step 2 Select one type of restart time from drop-down list.

Step 3 Click  to save settings. Click  to return to previous setting.

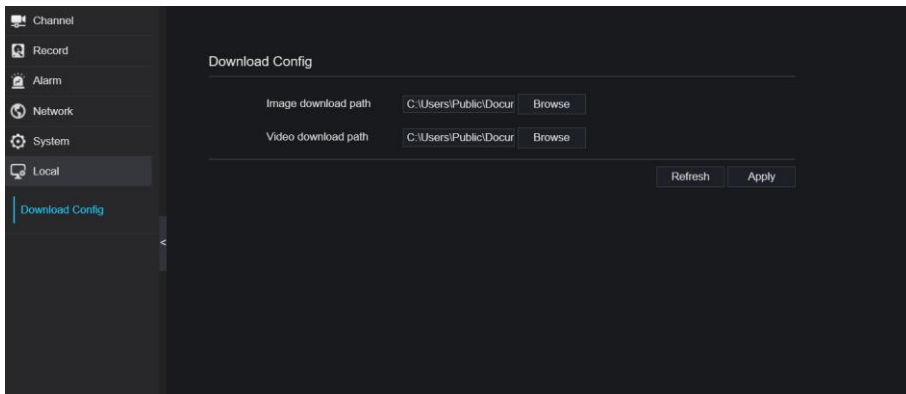
9.6 Local

Set the image download path for snapshots and the record download path for record files in the download configuration interface. It is only used for IE browser.

Procedure

Step 1 Click **Local Download Config** in local interface, as shown in Figure 9-59.

Figure 9-59 Local interface



Step 2 Enter the image download path.

Step 3 Enter the record download path.

Step 4 Click **Refresh** to return the previous settings. Click **Apply** to save the settings.

----End

10 Disk Compatibility

The hard disks in the following list are tested and certified by our company, if you want to use other hard disks, please consult to our technical staff.

Table 10-1 Disk specification

Disk Brand	Type	Capacity	Model	Parameter	Verification of Platform
WD (Western Digital)	Monitoring level	3T	WD30EJRX -89G3VY0	3000G/ 5400RPM/64MB /SATA	NVR25 Series /NVR 26 Series /ADR33 Series /ADR36 Series
		1T	WD10EJRX -89N74Y0	1000G/5400RP M/64MB/SATA	NVR25 Series /NVR 26 Series /ADR33 Series /ADR36 Series
		4T	WD40PUR X- 64GVNY0	4000G/5400RP M/64MB/SATA	NVR25 Series /NVR 26 Series /ADR33 Series /ADR36 Series
		2T	WD20EUR S-63S48Y0		NVR25 Series /NVR 26 Series /ADR33 Series /ADR36 Series
		3T	WD30EUR S-63SPKY0		NVR25 Series /NVR 26 Series /ADR33 Series /ADR36 Series
		0.5T	WD5000AA KK-001CA0		NVR25 Series /NVR 26 Series /ADR33 Series /ADR36 Series
		1T	WD10EZE X-00BN5A0	1000G/7200RP M/64MB/SATA	NVR25 Series /NVR 26 Series /ADR33 Series /ADR36 Series
		4T	WD40EJRX -89T1XY0	4000G/5400RP M/64MB/SATA	NVR25 Series /NVR 26 Series /ADR33 Series /ADR36 Series

		3T	WD30PUR X-64P6ZY0	3000G/5400RP M/64MB/SATA	NVR25 Series /NVR 26 Series /ADR33 Series /ADR36 Series
		6T	WD60PUR X- 64WYOY1	6000G/5400RP M/64MB/SATA	NVR25 Series /NVR 26 Series /ADR33 Series /ADR36 Series
		8T	WD82EJRX -89AD9Y0		NVR25 Series /NVR 26 Series /ADR33 Series /ADR36 Series
	Desktop	12T	WD121EJR X-89S5UY0	7200RPM/256M B/SATA	NVR25 Series /NVR 26 Series /ADR33 Series /ADR36 Series
Seagate	Monitoring level	2T	ST2000VX0 00	2000G/5900RP M/64MB/SATA	NVR25 Series /NVR 26 Series /ADR33 Series /ADR36 Series
		2T	ST2000VX0 08	2000G/5900RP M/64MB/SATA	NVR25 Series /NVR 26 Series /ADR33 Series /ADR36 Series
		4T	ST4000VX0 00	4000G/5900RP M/ 64MB/SATA	NVR25 Series /NVR 26 Series /ADR33 Series /ADR36 Series
		3T	ST3000VX0 00	3000G/5900RP M/64MB/SATA	NVR25 Series /NVR 26 Series /ADR33 Series /ADR36 Series
		4T	ST3000VX0 10		NVR25 Series /NVR 26 Series /ADR33 Series /ADR36 Series
		1T	ST31000528 AS		NVR25 Series /NVR 26 Series /ADR33 Series /ADR36 Series
		6T	ST6000VX0 001		NVR25 Series /NVR 26 Series /ADR33 Series

					/ADR36 Series
		3T	ST3000VX0 10	3000G/5900RP M/64MB/SATA	NVR25 Series /NVR 26 Series /ADR33 Series /ADR36 Series
		8T	ST8000VX0 002		NVR25 Series /NVR 26 Series /ADR33 Series /ADR36 Series
	Enterprise level	6T	ST6000VN0 011	6000G/7200RP M/128MB/SATA	NVR25 Series /NVR 26 Series /ADR33 Series /ADR36 Series
Toshiba	Monitoring level	1T	DT01ABA1 00V	1000G/5400 RPM /32MB/SATA	NVR25 Series /NVR 26 Series /ADR33 Series /ADR36 Series

Video recording size per channel per hour =bitrate (kbps)*3600/1200/8 (M)

Recording duration =Total hard disk capacity (M) / Video recording size per channel per hour /
number channels (H)