Network Video Recorder (NVR) User Manual

Issue

V4.6.5

Date

2022-11-11

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About This Document:

This document is for several models. The appearance and function of the products are subject to the actual products.

Any loss caused by failure to follow the instructions in this document is the responsibility of the user.

This document will be updated in real time according to the laws and regulations of the relevant region. For details, please refer to the product's paper, electronic CD, QR code or official website. If the paper and electronic files are inconsistent, please refer to the electronic file as.

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Network Security Advice

Required measures to ensure basic network security of equipment:

Modify the password regularly and set a strong password.

Devices that do not change the password regularly 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 NVR, 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 NVR, you do not need to forward the port for each camera. Only the ports of the NVR 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 NVR.

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

Network isolation between NVR and IP cameras

We recommend isolating your NVR 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 NVR (Network Video Recorder) device.

Modify Log

ID	Version	Log	Release Time
1	V 4.0	Initial Release	2017/10
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 spilt 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 com Preview channel and modify parameter function on IPC sid Support for copying to some	network
parameter function on IPC side Support for copying to some	
	ie
	or all channels
Remove the full screen function	on
Add backend backup	
Add video dual authentication	1
Intelligent motion detection	
Add the color to distinguish t add the video type search	he video type,
Add sound switch	
Add instant playback	
Remove the timeline function	L
Increase intelligence analysis	
Increase test DDNS function	
Increase test mail function	
Modify the time precision to remove the recording plan ma	
Add hardware information	
Added video dual authenticat wizard configuration function	
Add alarm log	
Add interval update profile	
6 V 4.2.1 Add the NTP synchronization the manual NTP synchronization	
Add access to thermal imagin display IPC product models	g cameras and
Remove auto hide	
Add the patrol route and line-	scan function
Add upgrade IPC, restart IPC IPC	, restore factory
Increase the selection of main backups	and sub stream
Add playback button to play	video
Add UI to display detailed in of IPC	elligent analysis
Add 802.1x functionality	

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

		Add manual input automatic logout time	
		Restore factory refinement	
9	V4.4	Support adding POE cameras automatically or manually.	
		Support NVR network provided by 3G/4G modem.	
		Support cloud storage.	
		Add disk detection, disk group and multi channels recording.	
		Support license plate recognition management.	
		Support through RTSP to add cameras.	
		Add thermal imaging and face detection functions.	
		Add alarm of IP address conflict and abnormal internet connection.	
10	V4.5	Add disk capacity calculation	202005
		Add viewing network traffic	
		Add alarm output function	
		Add ROI	
		Add the function of human body thermometer	
		Add temperature schedule linkage	
		Add smart functions	
		Add smart tracking	
		Add microphone	
		Add the synchronization camera time	
		Add personnel counting	
		Add IO control push message alarm	
		Add the log of alarm events send by Email	
11	V4.5.1	Add mask detection configuration	
		Increase personnel counting configuration	
		Optimize the function of adding camera channels manually	
		Optimize record schedule	
		Optimized auto sequence	
		Increase NAT port settings	
		Increase network packet capture	

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Add advanced intelligent analysis			Add remarks about special functions
			Modify the pictures
Add ADAM			Add advanced intelligent analysis
			Add ADAM

Symbol Conventions

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

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

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1 Preface

1.1 Product Description

This product is a high-performance NVR device. The product has local preview, video multiscreen split display, local real-time storage function of video files, add support for mouse shortcut 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 network 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 the devices 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 has independent real-time recordings and multi functions, such as retrieval, playback, network monitoring, video query, and download. Please refer to chapter Playback

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

The exact time when the event occurred can be displayed during playback of the recording. You can select any area of the screen for partial magnification.

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 Funtion

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 NVR 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 give 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 push information.

1.2.7 Network Monitoring

Through the network, the audio and video data of the IP camera or NVS (Network Video Server) of the NVR device is transmitted to the network terminal for decompression and reproduction. The device supports 8 (or 4) 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 be 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.



For other functions, please see the following text.

2 Product Structure

2.1 Front Panel

Figure 2-1 One disk/four disks model

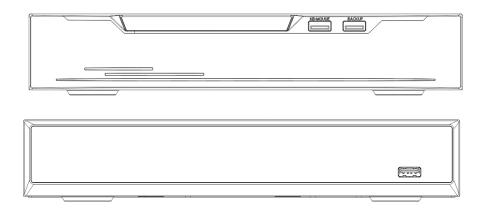


Table 2-1 Front panel function

Port	Description
PWR	When the NVR is operating, the PWR indicator is steady on. When the NVR 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 an USB mouse.
BACKUP	Only connected to U disk.

Figure 2-2 One disk model

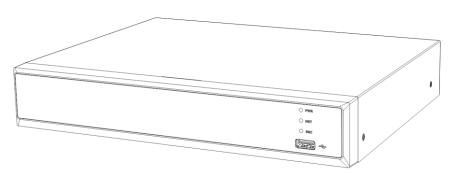


Table 2-2 Front panel function

Port	Description
PWR	When the NVR is operating, the PWR indicator is steady on. When the NVR is shut down, the PWR indicator is turned off.
NET	Network status indicator This indicator flashes when data is transmitted.
REC	Hard disk status indicator This indicator flashes when data is transmitted.
•	Only connected to an USB mouse

Figure 2-3 Eight disk model

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Network Video Recorder		

Table 2-3 Front panel function	
--------------------------------	--

Port	Description
PWR	When the NVR is operating, the PWR indicator is steady on. When the NVR is shut down, the PWR indicator is turned off.
HDD	Hard disk status indicator This indicator flashes when data is transmitted.
•	Only connected to an USB mouse

Figure 2-4 WiFi model

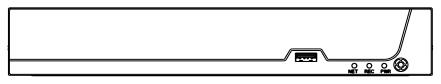


Table 2-4 Front panel function

Port	Description
PWR	When the NVR is operating, the PWR indicator is steady on. When the NVR is shut down, the PWR indicator is turned off.
NET	Network status indicator This indicator flashes when data is transmitted.
REC	Hard disk status indicator This indicator flashes when data is transmitted.
• √ •	Only supports connected to an USB mouse

2.2 Back Panel

Figure 2-5 3704E1-P4

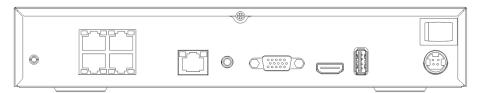


Figure 2-6 3804-E1-P4/3504E1-P4/3604E1-P4

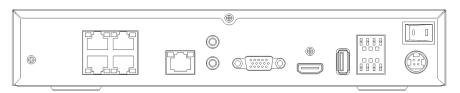


Figure 2-7 3808E1-P8E/3508E1-P8

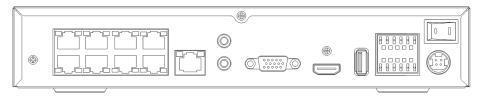


Table 2-5 Real panel function

Port	Description
POE	POE network interfaces
LAN	RJ 45 10/100/1000 Mbps adaptive Ethernet interface
AUDIO OUT / AUDIO IN	Audio output / Audio input
VGA	Video output interface
HDMI	
Alarm I/O	Alarm input/Alarm output
<u> </u>	GND
DC48V	Connected to an external power adapter

Figure 2-8 3632E4-P16

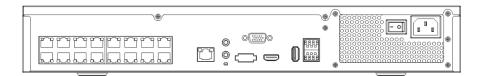


Figure 2-9 3816E2-P16/3516E2-P16/3532E2-P16

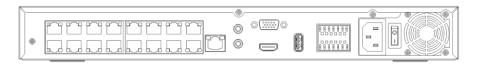


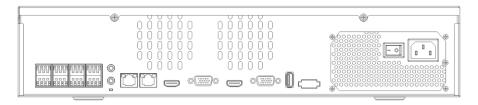
Table 2-6 Real panel function

Port	Description
POE	POE network interfaces
LAN	RJ 45 10/100/1000 Mbps adaptive Ethernet interface
AUDIO OUT / AUDIO IN	Audio output / Audio input
VGA	Video output interface
HDMI	
USB 3.0	Only connected to 3.0 U disk
Alarm I/O	Alarm input/Alarm output
(Å	GND
DC48V	Connected to an external power adapter

Figure 2-10 3632E4/3664/E4



Figure 2-11 3632E8/3664E8



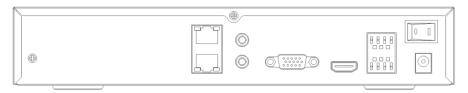
Port	Description
	Alarm input and alarm output./RS485
LINE OUT / LINE IN	Audio output / Audio input
LAN1 /LAN2	RJ 45 10/100/1000 Mbps adaptive Ethernet interfaceLAN1 is deployed default gateway and used for external network. LAN2 is used for internal network.
VGA	Video output interface
HDMI (1/2)	
RS232	Standard RS232 serial communication interface of the device
USB 3.0	Only connected to 3.0 U disk
E SATA	External hard disk interface
- 0	Power switch
÷	Safe ground screw of the device
	AC 110V/220V power input interface

Table 2-7	Real	panel	function
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Figure 2-12 2516E2/3816E2



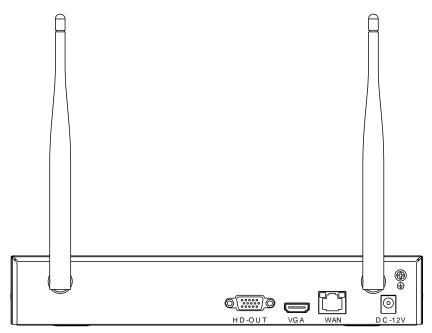
Figure 2-13 2504E1/2508E1/3804E1/3808E1



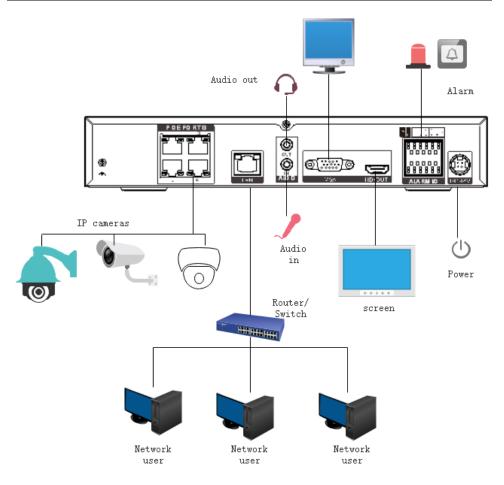
Port	Description
	Alarm input and alarm output./RS485
LINE OUT / LINE IN	Audio output / Audio input
LAN	RJ 45 10/100/1000 Mbps adaptive Ethernet interface
VGA	Video output interface
HDMI	
RS232	Standard RS232 serial communication interface of the device
USB 3.0	Only connected to 3.0 U disk
E SATA	External hard disk interface
- 0	Power switch
Ψ.	Safe ground screw of the device
\bigcirc	Connected to an external power adapter

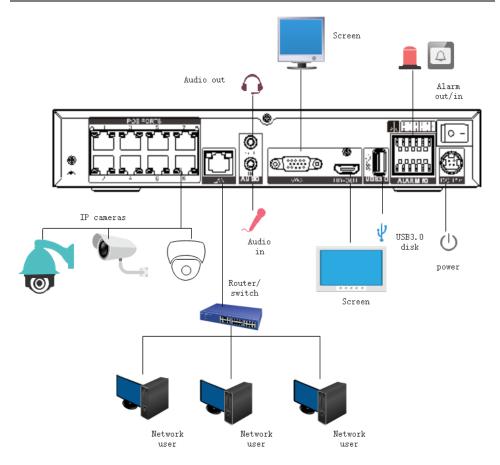
Table 2-8 Real panel function

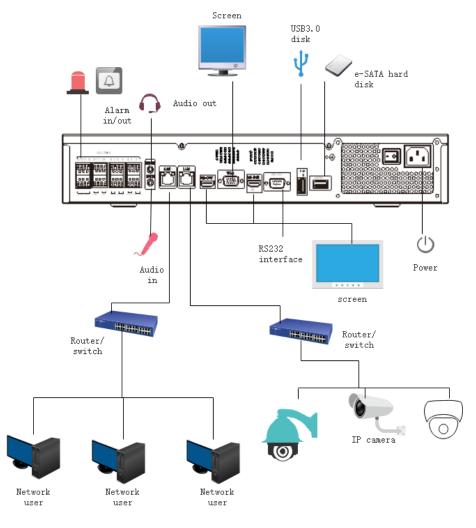
Figure 2-14 WiFi model



Port	Description	
WAN	RJ 45 10/100/1000 Mbps adaptive Ethernet interface	
VGA	Video output interface	
DC 12V	Connected to an external power adapter	
(]	Safe ground screw of the device	







2.3 Important Notes

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

The NVR 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 NVR 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.

2.4 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 NVR.

The information in this user manual applies to the full series NVR, NVR as an example for description.

Read this user manual carefully before using the NVR and follow the methods described in this manual when using the NVR.

If you have any doubts when using the NVR, 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.

2.5 Installation Environment and Precautions

Installation environment

Table 2-10 defines the installation environment of the NVR.

Item	Description
Electromagnetism	The NVR conforms to national standards of electromagnetic radiation and does not cause harm to the human body.
Temperature	-10°C to +45°C
Humidity	20% to 80%
Atmospheric pressure	86 Kpa to 106 Kpa
Power supply	DC 12V, DC 48V 2A(1 HDD) or AC110/ 220V 4A(2 HDDs or more), please refer to actual products.
Power consumption	<15W (not including the hard disk)

Table 2-10 Installation environment

Installation precautions

Note the following points when installing and operating the NVR:

The power adapter of the NVR uses DC48V $\pm 20\%$ input. Do not use the NVR when voltage is too high or too low.

Install the NVR horizontally.

Avoid direct sunlight on the NVR and keep away from any heat sources and hot environments.

Connect the NVR to other devices correctly during installation.

The NVR is not configured with any hard disk upon delivery. Install one or more hard disks when using the NVR for the first time.

The NVR identifies hard disk capacity automatically and supports mainstream hard disk models.

You'd better use high-quality hard disk so that the NVR can work stably and reliably. Please

refer to chapter 10 Disk Compatibility

Other precautions

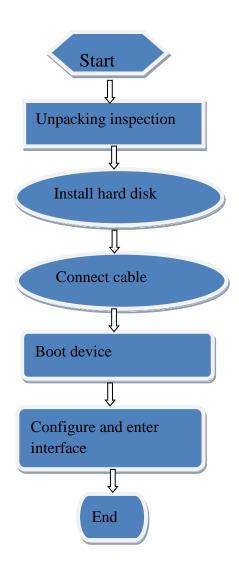
Clean the NVR with a piece of soft and dry cloth. Do not use chemical solvents. Do not place objects on the NVR.

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

Series of NVR

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 Make sure the device is properly connected. Power up 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.

No	Item		Check content
1	Overall	Appearance	Is there any obvious damage
	packaging	Package	Is there accidental impact
		Accessories	Is it complete
2	Label	Label of device	Is the equipment model consistent with the order contract? Whether the label is torn NOTE 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.
3	Cabinet	Package	Is there any obvious damage
		Data cable, power cable, fan power supply, and motherboard	Is the connection loose? NOTE If it is loose, please contact the company's after-sales personnel.

Table 3-1 Unpacking inspection

3.3 Install Hard Disk

Check if the hard disk is installed during the first installation. 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.

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,

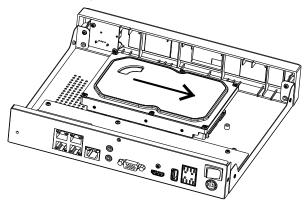
and secure it to the screw holes, as show in Figure 3-1..

Figure 3-1 Installing the hard disk screws

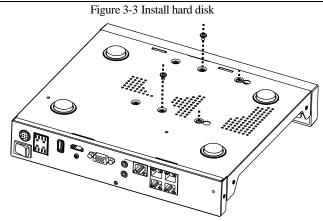


Step 3 Pass the screws through the holes on the base and put the hard disk in place, as shown in Figure 3-2.

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.



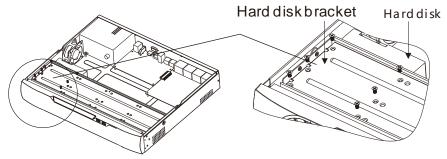
Step 5 Insert the hard disk data cable and power cable, then put back the upper cover and fasten the fixing screws.

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



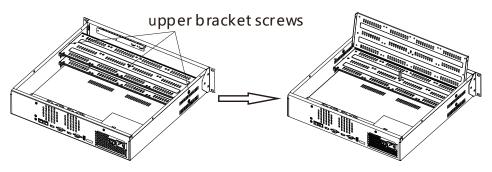
Step 3 Install other hard disks following step 2.

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

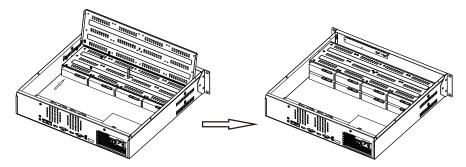
3.3.3 Install Eight Hard disks

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

Step 2 Loosen screws on both sides to lift the upper bracket as shown figure. Figure 3-5 Loose screws lift the upper bracket



- Step 3 Put the hard disk under the lower bracket, hold the hard disk with one hand and aim the hard disk hole at the bracket hole, then fix the screws for hard disk, as shown in Figure 3-6.
- Step 4 Pull down the upper bracket and secure it by tightening the screws, then install other hard disks in upper layer following step 3, as shown in the right figure in Figure 3-6.
 Figure 3-6 Unscrew the screws lift the upper bracket



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

4 Basic Operations

4.1 Power on the Device

A CAUTION

Ensure that the NVR 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 NVR before power-on.

In some environments, abnormal power supply may cause the failure of the NVR to work properly and even damage the NVR in severe cases. It is recommended to use a regulated power supply to power up the NVR in such environments.

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

NVZ	N Activ		NVS
	Language	English	
	Usemame	admin	
-	Confirm the new password		
NV2	Enter channel default password		NVR
	- Valid password range [6-32] cl		
	 At least 2 kinds of numbers, low Only these special characters 		
	- Channel default password limit		
NVZ	o		

Users need to provide a hard disk for the NVR. 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

NVR. Format the hard disk.

The hard disk is damaged.

4.2 Activation

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

Activa	ation	
Language	English	~
Username	admin	
Enter a new password		
Confirm the new password		
Enter channel default password		
- Valid password range [6-32] ch - At least 2 kinds of numbers,low		cial.
- Only these special characters a	are supported !@#\$*+-=_•	%&"`.
- Channel default password limit	is not empty	
OF		

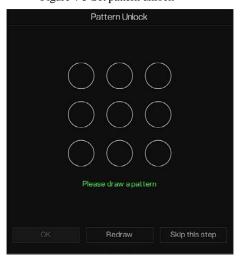
Figure 4-2 Activation

Table 4-1 Description of activation

Name	Description
Username	The default username is admin, and "admin" is super administrator.
Password	Valid password range 6-32 characters.
Confirm password	At least 2 kinds of numbers, lower case, upper case or special characters contained.
	Only these special characters are supported ! @#&*+=-%&```(),/'.:;<>?^ ~[]{}.
	Channel default password limit is not empty.

	Network Video Recorder
Basic Operations	User Manual
Channel password	The NVR 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



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.

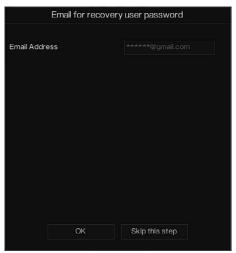


Figure 4-4 Set Email

Set the email address, if you forget the password, you can though the email address to 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 questions to create a new password in case the user forgets the password.

Basic Operations

Figure 4-5 Set question

Question (Rec	overy the password)
Question one	The brand and model of $\boldsymbol{.} \mathbf{v}$
Question one answer	
Question two	Your favorite team 🗸 🗸
Question two answer	
Question three	Your favorite city 🗸 🗸
Question three answer	
– Please enter at least 1 char – Please enter up to 32 chara OK	

🛄 ΝΟΤΕ

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

Questions one 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 funniest worst design you have ever seen Your favorite team Your favorite city The three question options cannot be set to the same issue.

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 NVR. If there is a power switch on the rear panel of the NVR, you can power off the power switch to disconnect the NVR from the power supply.

4.4 Login to the System

Step 1 Login to the device (two modes to login). The pattern unlock is as shown in Figure 4-6. Figure 4-6 Pattern unlock login page



Step 2 On the NVR login page, click "Password" to enter 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

3	English	~	
	admin	~	
8	Password		¥
	Login		

Step 3 Input the username and password.

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. User can choose a way to create new password:

1. Scan the QR code and send the QR code to your seller, the seller will send you the

verification code to create a new password.

2. Answer the secure question to create new password.

Step 4 Click Login to access the main User Interface (UI).Modify the default password, as shown

in Figure 4-8

Figure 4-8 Modify default password

	Modify default pass	sword	
New password Confirm password			
		Modify password	
– Valid password range			
	mbers,lowercase,upperca	ase or special character conta =	ined.

----End

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

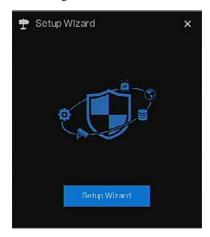


Figure 5-1 Wizard

DHCP	\odot		
IP Address	192 . 168 . 0 . 121		
Subnet Mask	255 . 255 . 255 . 0		
Default Gateway	192 , 168 . 0 . 1		
Obtain DNS Automatically			
Preferred DNS Server			
Alternate DNS Server			
Enable Port Mapping			
<i>l</i> ode	Auto 🗸		
ITTP Port			
HTTPS Port			
RTSP Port			
Control Port			

Figure 5-2 Wizard of network

Step 1 Contains he parameter, the details please refer to Table 5-1.

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 disable	[Setting method] Manual
Subnet mask	Set the subnet mask of device	[Setting method] Manual [Default value] 255.255.255.0
Gateway	If the user wants to access device, he must set that	[Setting method] Manual [Default value] 192.168.0.1
Obtain DNS	N/A	[Setting method]

Parameter	Description	Configuration
automatically		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] 8.8.8.8
Enable Port Mapping	Enable to set the ports of HTTP, HTTPS, RSTP, Control. Auto: device to obtain Web port, data port and client port. Manual: user set the port manually.	[Setting method] Choose type from drop-down list [Default value] Auto
HTTP Port	N/A	[Setting method]
HTTPS Port	N/A	When Port Mapping
RTSP Port	N/A	is manual, you need to set these.
Control Port	N/A	

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

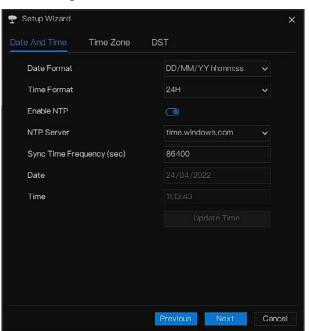


Figure 5-3 Wizard of date and time

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

Click to synchrony 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

🕈 Setup Wizard			×
Date And Time	Time Zone	DST	
Time Zone		(GMT+00:00) Dublin, Edinb. 🗸	
		Previous Next Car	ncel

Step 4 Click **DST**, enable the DST, set start and end time. Select offset time from drop-down list. Step 5 Click Next to enter the adding camera wizard, as shown in Figure 5-5.

	Channe	I I		Model	Protocol	Ор	erate
	o CH1	169.25	4.10.2:3000. S	N-IPR5825D.	Private	۷	位
	CH2						
						+	
	💿 CH4					+	
		IP	Delete	Add D	Evices	Stop Se	earch(13s) sion
0	192.168.1	17.116:4433		ONVIF			
	192.168.7	7.200:8888		ONVIF			
	192.168	8.7.98:80		ONVIF			
	192,168	8.7.95:80		ONVIF			
Her	ername	admin	Par	ssword	****		Add

Figure 5-5 Wizard of adding camera

The details of adding camera please refer to *chapter 7.1*.

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

Figure 5-6 Wizard of disk

Disk	Capacity	Used	SN	Disk Model	Status
Disk1	12 TB	149 GB	5QJ8VD9B	WDC WD121EJ.	Normal
Disk2	3 TB	1583 GB	Z6A0RABD	ST3000VX010	Normal
					Format

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



🕈 Setup Wizard		×
P2P		
Enable P2P	۲	
Status	Offline	
P2P ID	B011003AFEK 109U62	
App Name	InView Pro 4	
- It is available on App Store	and Google Play.	
	Previous Next 0	Cancel

Step 8 Enable the P2P, user can use mobile devices to manage the NVR 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. (the highest resolution is 3840*2160)

Figure 5-8 Wizard of resolution

🛨 Setup Wizard		×
Resolution		
Output Resolution	1920×1080	~
Don't show setup wizard	next time.	
	Previous	Next Finish

Step 10 Click Finish to end the wizard, tick the Don't show setup wizard next time, it would not show at next time. Reopen wizard at system > User > Advance setting.

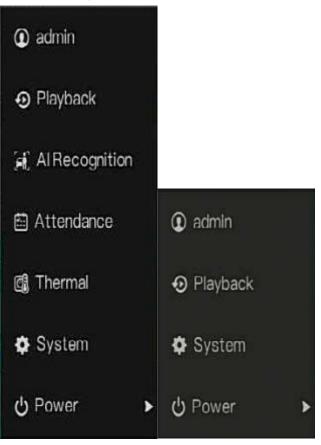
6 Quick Navigation

6.1 Quick Bar

After the NVR operation screen is displaying, move the cursor to the far bottom of the NVR screen. The NVR floating menu bar is displaying.

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





In the middle of NVR floating menu bar, the video tool bar provides video window switching,

auto SEQ, volume, playback, and **channel information,** as shown in Figure 6-2. Figure 6-2 Real-time video toolbar



The real-time video toolbar is as follows:

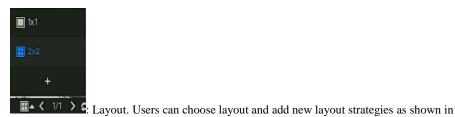


Figure 6-3. Click and on the right of screen splitting format and choose the channels to view the

video. Click + to add a new layout.

+ Add Layout		×
	Layout Name	Dwel Time(sec) 5
[1]ut [2]Channett2 [3]Channet29 [4]uttgh] [-]Empty	Luit 2. Channell2 3. Channell2 4. dright	

Figure 6-3 Add layout

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

Auto SEQ. click icon, the layout dwell on screen is enabled, for how to set the dwell on,

please see chapter 7.5.5.

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

channel and adjust the volut

Encode

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

Real-time

Preview strategy, users can switch the real-time preview mode according to the network.

There are three modes: fluency, balanced and real-time.

A main menu quick toolbar is on the right of NVR 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 the icon, users can set different channels, choose alarm out, the window shows in Figure 6-5.

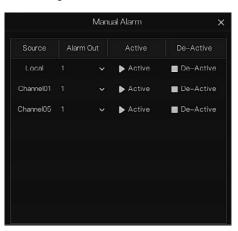


Figure 6-5 Manual alarm

Alarm message, click on the icon for more details as shown in Figure 6-6.

Pop up message to monitor X					
Channel	Туре	Start Time			
	IP Conflict	24/04/2022 11:26:25			
Channel4	Video Loss	24/04/2022 11:26:16			
Channel3	Video Loss	24/04/2022 11:26:07			
Channel4	Line Crossing	24/04/2022 06:08:41			
Channel4	Line Crossing	24/04/2022 06:08:17			
Channel4	Line Crossing	24/04/2022 06:08:03			
Channel4	Line Crossing	24/04/2022 06:07:18			
Channel4	Double Virtual Fe.	24/04/2022 06:07:07			
Channel4	Intrusion	24/04/2022 06:06:50			
Channel4	Double Virtual Fe.	24/04/2022 06:05:56			
Channel4	Line Crossing	24/04/2022 06:05:54			
Channel4	Line Crossing	24/04/2022 06:05:39			

Figure 6-6 Alarm message



Clean alarm, click icon and clean the current alarm actions like voice and external alarm

out.

(i)

: Information, click icon and the general information would show, like network, system,

channel, disk and alarm, as shown in Figure 6-7.

Network System	n Channel	Disk	Alarm	×
Status	Online			
IP Address	192.168.32.149			
Subnet Mask	255.255.0.0			
Default Gateway	192.168.0.1			
MAC Address	00:1C:27:16:F5			
DHCP	OFF			
Preferred DNS Server	192.168.32.254			
Alternate DNS Server	8.8.8			
Total Bandwidth	1000.00 Mbps			
Received Packets	544.92 Kbps			

Figure 6-7 Information

6.2 Real Time Video Bar

Right click at 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 be recording video five minutes ago.

 \sim is the time bar of playback.

Audio: open or close the audio.

PTZ: This function is only applied for speed dome cameras. The monitored camera can focus,

zoom or iris at this pop-up window. You can adjust every parameter as shown in Figure 6-8.



Figure 6-8 PTZ adjust screen

adjust direction of camera.

: At this part, perform Advanced, Scan and Tour settings.

: 3D, this function can only 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 the point to zoom in. Drag and draw the area, zoom in the drawing area, Reverse drag to zoom out.

Q : Zoom in. click zoom i

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

exit the zooming.

P

: Image, click the icon, as shown in Figure 6-9. Select scene, and drag cursor to adjust value of brightness, sharpness, contrast and saturation.

Figure 6-9 Camera picture parameter



Ś

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

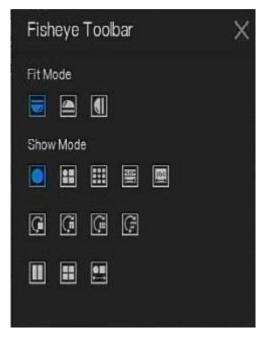
o: Snapshot panorama. If an USB storage device is connected to the NVR device, click to save the panorama snapshot directly.

1 1 5

: fisheye (only used for fisheye cameras), click to switch the fisheye modes, as shown in

Figure 6-10.

Figure 6-10 Fisheye



6.3 Playback

Playback refers to playing back a video, fixed-point playback, playback the search type.

Click fin the quick navigation bar to access the playback screen, as shown in Figure 6-11.

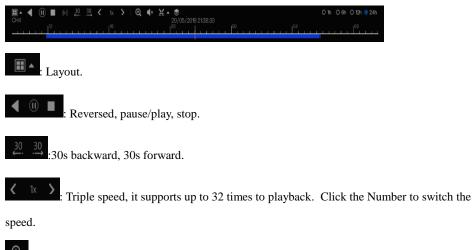
Figure 6-11 Playback screen

 Playback 	Time Search	Picture Grid	Event Recording	Backup List	×
🗆 🙆 Select All					
🗆 🙆 [1] Channel01					
🗆 🔘 [2] Channel02					
🗆 🛞 [3] Channel03					
🗆 🙆 [4] Channel04					
🗉 🙆 [5] Channel05					
🗆 🙆 [6] Channel06					
[7] Channel07					
[8] Channel08					
< 2022 - 04 >					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$					
11:47:08 Go					
Schedule Record Manual Record Alarm Record				×	O1h O1h O12h @24h 18

Choose the channels from the channels list, click one day to play (the date has blue line, it means there is recording video at this day, it doesn't mean for all channels has video.)

It maybe has three color bars on the time bar, the blue one is schedule record, the yellow one is manual record, and the red one is alarm record.

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



: Zoom. Roll the roller of mouse to zoom in or out.

I Audio.

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

icon again.

The backup type appears. Click **save**. And **saving the file** pop ups as Figure 6-12. Click **OK** to save.

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

Figure 6-12 Select directory

	Select Directory	×
Device List O		t 🛱
/dev/sdb1	Name M	odify Date Size
/dev/sdb2	1	
	➡ kernel-3520D-V200 25/12	2/2018 09:27:06 2.0 MB
	■ u-boot-3520D-V200 25/12	2/2018 09:27:14 225.5 KB
		k
Remain/Total		
0.7 GB/0.7 GB		
		OK Cancel

۲

Batch backup, click the icon to backup multi-channels, as shown in Figure 6-13.

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. The backup videos are marked by watermark, you can view it by our player.

1: Snapshot panorama. Click to save it to USB storage device on NVR.

Figure 6-13 Batch backup

	\$	Batch Backup			×
		Save to			ĩ
		Video Type			
		Stream Information	Main Stream		
		Start Time	2019/05/28	21:45:16	
		End Time	2019/05/29	21:45:16	
		Channel	□ Select All		
				OK	Cancel
) 6h	O 12h	🧿 24h			

: Type of time bar, recording video can show

6.3.1 Time Search

O 6h

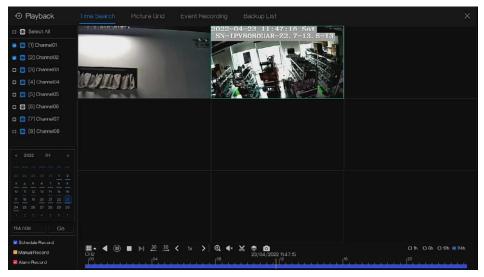
Search refers to searching for a video by date and time.

Operation Description

0 1h

Click on the quick navigation bar to access the search screen, as shown in Figure 6-14.

Figure 6-14 Time Search screen



Operation Steps

Step 1 Select a camera or cameras in the camera list on the left side of the search screen. The video view of the selected camera is displaying 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 6-15.

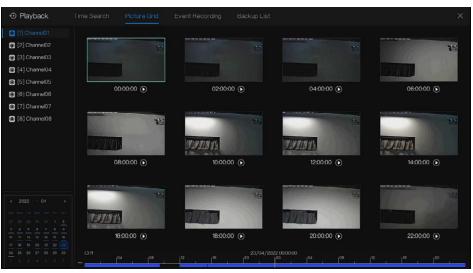


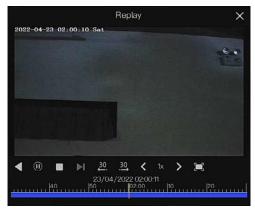
Figure 6-15 Picture grid screen

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 date from calendar.
- Step 3 A day are dividend to 12 grids, every two hours is a grid. Click the image to change the interval.
- Step 4 Select a required thumbnail, double-click it or right-click it and choose Play from the shortcut menu to play the video.

Step 5 Click **()** to replay the gird individually.

Figure 6-16 Replay



----End

6.3.3 Event Recording

Click On the quick navigation bar; choose **Event** at title to access the alarm event screen, as shown in Figure 6-17

• Playback		Event Recording				
🗷 🞯 Select All		Channel			Oper	
🛛 🖸 [1] Channel01 👘	24/04/2022 11:47:38	Channel05	Mation Detection	Channel05	Ð	Φ
😨 🞯 [2] Channel02	24/04/2022 11:46:44	Channol03		Channel03	Ð	Θ
🛛 💽 [3] Channel03	24/04/2022 11:46:43	Channel04		Channel04	Ð	Θ
🗹 🙆 [4] Channel04	24/04/2022 11:46:05	Channel04	Video Loss	Channel04	Ð	٩
🗹 🙆 (5) Channel05	24/04/2022 11:45:41	Channel03	Video Loss	Channel03	Ð	Ø
🛃 👩 [6] Channel06	24/04/2022 11:45:17	Channel05	Motion Detection	Channel05	Ð	Ø
🗷 🙆 [7] Channel07	24/04/2022 11:44:38	Channel03	Video Loss	Chamel03	e e	e e
Start Time						
3/04/2022 11:47:38	24/04/2022 11:43:57	Channel05	Motion Detection	Channel05	Ð	٩
End Time	24/04/2022 11:43:50	Channel03	Video Loss	Channel03	Ð	۵
24/04/2022 11:47:38	24/04/2022 11:36:45	Channel05	Video Loss	Channel05	Ð	٩
😎 Alarm In	24/04/2022 11:26:25					
🛃 Camera Alarm In	24/04/2022 11:26:16	Channel04		Channel04		
Motion Detection	24/04/2022 11:26:07	Channel03	Video Loss	Channel03		
Camera Tamper	24/04/2022 06:08:41	Channel04	Line Crossing	SN-IPR8080ALAN-Z2.7-13.5-23	Ð	θ
☑ Video Loss ☑ Intelligent Analysis	24/04/2022 06:08:17	Channel04	Line Crossing	SN-IPR8080ALAN-Z2.7-13.5-23	Ð	æ
Z Abnormal Alarm		Channel04		SN-IPR8080ALAN-Z2.7-135-23	Ð	Ð
Search			< 1/105 >	Double cl		

Figure 6-17 Event screen

Operation Steps

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

- Step 2 Set start and end time.
- Step 3 Tick the alarm type, such as alarm in, camera alarm in, motion alarm, video loss,

intelligent analysis and abnormal alarm

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

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

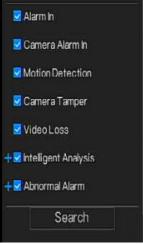


: play the recording video.



: backup the recording video.

Quick Navigation



the type of intelligent analysis and abnormal alarm are subdivided, users can tick **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.

User can choose the accurate alarm events to search.

----End

6.3.4 Backup List

Click on the quick navigation bar, choose Backup at title to access the backup screen, as shown in Figure 6-18.

Figure 6-18 Backup screen

Q	Search	Tin	ne Search	Picture	Grid E	Event Backup		\times
ID			End Time					
1						m /nfsroot/usbbk_b ▶	25%	, D

View detailed information of backup. Click on Delete to quit the download.

----End

6.4 AI Recognition (Only for Some Models)

At AI recognition interface, we can set the **Real time Comparison**, **Smart search**, **Archives library**, **Comparison configuration**.

The all snapshots is able to be added to the libraries according the real needs

6.4.1 Real Time Comparison

Real time comparison can compare human faces, vehicle license plate, and AI(include riding, vehicle, full body)

6.4.1.1 Human Face

At real time comparison interface, click the to enter the human face comparison interface, choose the cameras with face recognition function to play live video, the snapshots of camera will be compared with the templates which have been registered in libraries, the result shows as in Figure 6-19.

Figure 6-19 Human face comparison Al Recognition Select All 2019-11-05 16:39 30 Tues 🗆 👩 [1] Channel01 🖸 👩 [2] Channel02 🗆 🙆 [3] Channel03 🛛 🙆 [4] Channel04 [] [5] Channel05 🗆 🙆 [6] Channel06 [7] Channel07 [8] Channel08 8 🗆 🙆 [9] Channel09 🗆 🙆 [10] Channel 10 🗆 🗿 [11] Channel 11 🗆 🙆 [12] Channel 12 🗆 🞯 [13] Channel 13 🗆 👩 [14] Channel14 🗆 👩 [15] Channel15 🗆 🙆 [16] Channel 16 🗆 🞯 [17] Channel 17 [18] Channel 18 🗆 🙆 [19] Channel 19

Click the "+" to add the snapshot to face library immediately.

Snapshot in real time video, put the cursor on picture such as $+ \sum_{i=1}^{i} Q_{i}$, you can add it to face

library, or face search. The cursor on area and the pictures are not update, move the mouse so that the pictures can be shown in time.

----End

6.4.1.2 Vehicle License Plate

At real time comparison interface, click the **NO** to enter the vehicle license plate comparison interface, choose the cameras with license plate recognition function to play live video, the snapshot of camera will be compared with libraries, the result shows as in Figure 6-20.

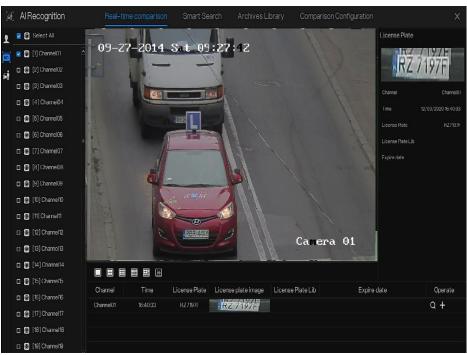


Figure 6-20 Vehicle license plate

Click the "+" to add the snapshot to license plate library immediately.

----End

6.4.1.3 Vehicle and Full Body

At real time comparison interface, click the **NO** to enter the vehicle license plate comparison interface, choose the AI recognition cameras to play live video, the snapshot of camera will be compared in libraries, the snapshot to vehicle and full body will show at the bottom of page, the result shows as in Figure 6-21.

Figure 6-21 Full body



----End

6.4.1.4 Real-time Body Temperature Filter

At AI recognition, click to enter the real-time body temperature filter, Users can select the body temperature camera, which will display temperature recordings and over-temperature snapshots. Click full-screen, the channel list and snapshots statistics will be hidden.

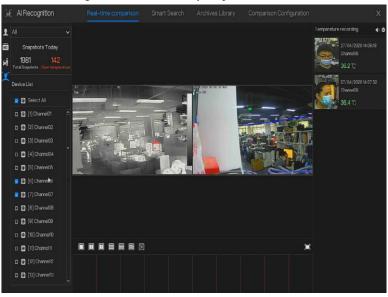
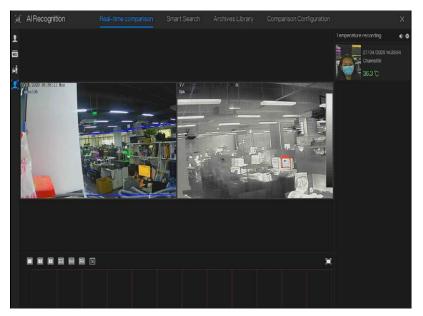


Figure 6-22 Real-time body temperature filter

Figure 6-23 Full screen



If users enable the mask detection, the snapshot results will reminder wear mask or no mask.

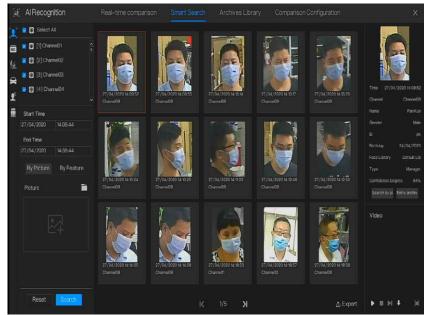
6.4.2 Smart Search

At smart search interface, user can search the human face, vehicle license plate, full body, car, body temperature.

Up to 1000 pictures can be displayed. Click to see more details and export search result.

6.4.2.1 Human Face Search

Figure 6-24 Human face search



- Step 1 Choose human face search at smart search interface.
- Step 2 Tick the face recognition camera channels, set the start and end time.
- Step 3 Choose the condition (by picture or by feature), the picture can be selected from the file folder.
- Step 4 Click "Search" to search the snapshot of human face.
- Step 5 The result will show at the middle of page, click the picture and the detail information show at the top right of page.
- Step 6 The pictures can be added to library or used to search.

Step 7 Click play button of video to play the recording of snapshot, click "Backup" to back up

the recording videos.

	Backup	×
Stream:	Main Stream 🗸	
Video Type:	Mp4	
Channel:	СН9	
Size:	30.0 MB	
Start Time:	27/04/2020 14:09:37	
End Time:	27/04/2020 14:10:07	
Save	Cancel	

Figure 6-25 Back up

Step 8 Click "Export" to export the result, choose export type pictures or videos.

Figure 6-26 Export

Export Type	Export Pictures 🗸	
Save to	Export Pictures Export video	

Play video of snapshot, it will play a 30-seconds video before and after the snapshot.

Issue: V4.6.5(2022-11-11)

Snapshot in real time video, put the cursor on picture such as + \mathbb{N}^{Q} , you can add it to face

library, or face search. The cursor on area 6 and the pictures is not update, move the mouse so that the pictures can be shown in time.

----End

6.4.2.2 Vehicle License Plate Search Figure 6-27 Vehicle License Plate search

Select /	41	Search result						쇼 Export
🗾 👩 [1] Chan	nel01	Channel		License Plate	License plate image	License Plate Lib	Expire date	Operate
👱 👩 [2] Char	mel02	Channel10	27/04/2020 14:16:13	RN31TR	RNIEINR	Default Lib	Never expire	+ 🔊
🗾 🖸 [3] Char	mel03	Channel10	27/04/2020 14:16:16	RZ9440F	IR2 9440FT	Default Lib	Never expire	+ 🕤
🙎 🔯 [4] Cha	mel04	Channel10	27/04/2020 14:16:23	R24791	RX 24791			+ 🔊
🗾 🖸 [5] Char	nel05	Channel10	27/04/2020 14:16:24	KH200VX	15N-200W2	DetautLib	Never expire	+ 😔
🙎 💽 [6] Char	mel06	Channel10		LIGAGERONYRR	IGA OBRONY A			+ Đ
👿 🖸 [7] Char	nnel07	Channel10	27/04/2020 14:16:28	RZ5615K	RZIS615K	Default Lib	Never expire	+ Đ
🔽 👩 [8] Cha	mel()8	Channel10	27/04/2020 14:16:33	RZE15RX	RZE 15RX			+ 🕤
👱 👩 [9] Char	mel09	Channel10	27/04/2020 14:16:36	RZ3958J	ERZ 3938T			+ Đ
🖬 👩 [10] Cha	rnel10	Channel 10	27/04/2020 14:16:40	R29903F	RZ 9903F	Default Lib	Novor expire	+ Đ
🛛 🖸 [11] Cha	melti	Channel10	27/04/2020 14:16:44	X6VI	GS%105.avr	8		+ 💿
Start Time		Channel10	27/04/2020 14:16:45	27201	27-2014			+ 😔
27/04/2020	14:16:06	Channel10	27/04/2020 14:16:47					+ 🔊
End Time		Channel10	27/04/2020 14:16:48	LZ49954	12 49954			+ 🕤
	14:46:06	Channel10	27/04/2020 14:16:50	RLA12730	-RIA 12730			+ Đ
License plate(o	ptional)	Channel10	27/04/2020 14:16:52		NPZ Y325			+ 🗩
		Channel 10	27/04/2020 14:16:55	RZELW90		Default Lib	Never expire	+ 🕣

Step 1 Choose vehicle License Plate at smart search interface.

Step 2 Tick the vehicle license plate recognition camera channels, set the start time and end time.

Step 3 Input the license plate optionally.

Step 4 Click "Search" to search the snapshot of license plate.

Step 5 The result will show at the page, click "+" add to library.

Step 6 Click "Playback" to view the recording video, click "Backup" to back up the video.

Step 7 Click "Export" to export the result.

6.4.2.3 Full Body Search

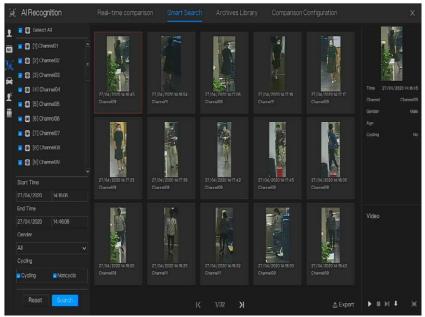
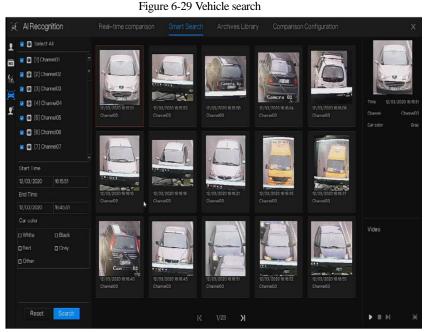


Figure 6-28 Full body search

- Step 1 Choose full body search at smart search interface.
- Step 2 Tick the AI recognition camera channels, set the start time and end time.
- Step 3 Set the gender, click cycling or no cycling.
- Step 4 Click "Search" to search the snapshot of human face.
- Step 5 The result will show at the middle of page, click the picture and the detail information show at the top right of page.
- Step 6 Click play button of video to play the recording of snapshot, click "backup" to back up the video.
- Step 7 Click "Export" to export the result.

6.4.2.4 Vehicle Search



- Step 1 Choose vehicle search at smart search interface.
- Step 2 Tick the AI recognition camera channels, set the start time and end time.
- Step 3 Tick the color.
- Step 4 Click "Search" to search the snapshot of human face.
- Step 5 The result will be showed at the middle of page, click the picture and the detail information show at the top right of page.
- Step 6 Click play button of video to play the recording of snapshot, click "backup" to back up the video
- Step 7 Click "Export" to export the result.
- ----End

6.4.2.5 Body Temperature Search Figure 6-30 Body temperature search

i' Al Recognition	Heal-					
🙎 🔯 Select All	Searchin	csult				企 Export
🔽 🗑 [1] Chamel01		Capture Photo	Library Photo	Information	Temperature	Capture Time
2 2 [2] Channel02 2 3 [3] Channel03 2 3 [4] Channel04				Channel06 Stranger		27/04/2020 14:18:58
 [5] Channel05 [6] Channel06 [6] Channel06 [7] Channel07 			2	Channel06 Stranger		27/04/2020 14:23:26
[7] ChannelD8 [8] ChannelD8 Start Time				Channel06 Stranger		27/04/2020 14:24:18
27/04/2020 14:16:06 End Time 27/04/2020 14:46:06			2	Chamel06 Stranger		27/04/2020 14:25:03
Person Type All Temperature Type			2	Channel06 Stranger		
All D(optional)			2	Channel06 Stranger		27/04/2020 14:33:43

Step 1 Choose body temperature search at smart search interface.

Step 2 Tick the AI recognition camera channels, set the start time and end time.

Step 3 Choose the person type, temperature type, input ID optionally.

Step 4 Click "Search" to search the temperature.

Step 5 Click "Export" to export the result

6.4.2.6 Personnel Count

Figure 6-31 Personnel count Al Recognition Select All [1] Channel01 Total In:923 =h =Out [2] Channel03 [3] Channel03 41 Channel 04 [5] Channel05 [6] Channel06 🔽 🖸 [7] Channel07 🔽 👩 [8] Channel08 🔽 👩 [9] Channel09 🔽 👩 [10] Channel 10 🗾 👩 [11] Channel11 Date

Step 1 Choose personnel count at smart search interface.

Step 2 Tick the AI recognition camera channels, set statistical type and date.

Step 3 Click "Search" to search the snapshot of human face.

Step 4 Click $\bowtie \equiv$ to view the data in different data tables.

----End

6.4.3 Archives Library

At archives library, users can add or edit the face library, license plate library. The license plate libraries can be imported to and exported from IP cameras.

6.4.3.1 Face Library

Face Library	+ Add	X Del	ete 🕁	Import	企 Export	Q Refresh 😨	Filter			= 8
🗆 Select All			Gender	Birthday				Expire date	Operat	
🛛 De fault Lib			Male	28/11/2019		unknow	Student	Never expire	∠ ∎ q	
			Male	28/11/2019		unknow	Student	Never expire	∠ ∎ q	
Dinvi			Male	28/11/2019		unknow	Student	Never expire	∠ 🖬 Q	
z technology			Male	28/11/2019		unknow	Student	Never expire	∠ 🖬 Q	
🙎 Imago			Male	28/11/2019		unknow	Teacher	Never expire	∠ 🛍 Q	
engineering			Malo	28/11/2019		unknow	Student	Novor expire	∠ ∎ Q	
platform			Male	28/11/2019		unknow	Student	Never expire	∠ ∎ ۹	
			Male	28/11/2019		unknow	Student	Never expire	∠ 🖬 Q	
unknow			Male	28/11/2019		unknow	Student	Never expire	∠ ∎ 0	
🖬 test			Male	28/11/2019		unknow	Student	Never expire	∠ 🖬 Q	
hardware			Male	28/11/2019		unknow	Student	Never expire	∠ 🛍 Q	
download			Male	28/11/2019		unknow	Student	Novor oxpiro	∠ ∎ 0	
			Male	28/11/2019		unknow	Student	Never expire	∠ 🛍 Q	
			Male	28/11/2019		unknow	Student	Never expire	∠ 🖬 Q	
			Male	28/11/2019		unknow	Student	Never expire	∠ ∎ Q	
			Male	28/11/2019		unknow	Student	Never expire	∠ 🖬 Q	
			Male	28/11/2019		unknow	Student	Never expire	∠ 🛍 🍳	
			Male	28/11/2019		unknow	Student	Novor oxpire	∠ ∎ 0	

Figure 6-32 Face library

Click "+" to add a new face library.

Click "Add" to add person face.

Tick the person, click "Delete" to delete the person.

Click "Import" to add the person batch.

Click "Export" to export the all person in library.

Click "Filter" to filter the all persons in library, as shown in Figure 6-33.

Figure	6-33	Filter
--------	------	--------

Gender	All	v
D		
Туре	All	v
Picture	All	~

Click operate icon to edit or delete the chosen person.

----End

6.4.3.2 License Plate Library

At license plate library interface, users can add/delete/operate the library. It supports the whitelist and black-list according the libraries to export and import the library to IP cameras.

(a) Al Recognition	R	eal-time comparison	Smart Search	Archives Library Com	parison Configuration	Х
License Plate Lib	+ + A	dd 🗙 Delete	🛓 Import 🏾 🟦 Export	O Refresh		Ē
Select All		License Plate	License Plate Lib		Remark	Operate
CofadtLb		ibrary rom Camera	Defait Lb Defait Lb	Never expire		2 t Q 2 t Q
				K 1/1 X		

Figure 6-34 License plate library

Click "+" to add a new license plate library.

Click "Add" to add a plate to library.

Tick the plate, click "Delete" to delete the license plate.

Click "Import" to add the license plate batch.

Click "Export" to export the all-license plate library.

Click operate icon to edit or delete the chosen license plate.

Click "Import from Camera" to select license plate library to channel.

NO Selec	t License Plat	e Library	>
Chann	el	Channel09	~
Licon	se Plate Lib	💿 White List	
LIUGIR		O Black List	
		OK	Cancel

Click "Export to Camera" to add license plate number to camera.

NO	Select License Plate	e Library		×
	Channel	Channel09	~	
	License Plate Lib	💿 White List		
		O Black List		
		OK	Cancel	

----End

6.4.4 Comparison Configuration

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

At comparison configuration interface, user can set the comparison of human face/ license plate/temperature/ mask detection configuration/ personnel count configuration.

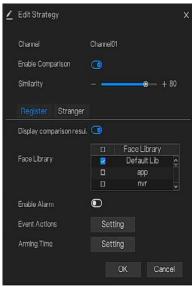
6.4.4.1 Face Comparison

At face comparison interface, users can set different channels' strategy, such as similarity, display comparison result, face library, enable alarming, event action, arming time, as shown in Figure 6-35.

$[\mathbf{a}]$	AlRecognition	Real-time comparison	Smart Search	Archives Library	Comparison Configuration		×
1	Channel	Register Detect Library	Strang	er Detect Library	Similarity	Operate	
NO	Channel11	Default Lib	Det	oult Lib	80%	۷	^
Ľ	Channel12	Default Lib	Det			۷	
	Channel13	Default Lib		ault Lib			
	Channel14	Default Lib	Def	ault Lib			
	Charnel 15	De fault Lib	Del	adi Lib	80%		
	Channel 16	Default Lib	Det	ault Lib			
	Channel17	Default Lib	Det	ault Lib		2	
	Channel 18	Default Lib		ault Lib		۷	
	Channel 19	DefaultLib	Det	ault Lib		۷	
	Channel20	DefaultLib		ault Lib			
	Channel21	Default Lib	Det	ault Lib			
	Channel22	Default Lib	Del	ault Lib			z
	Channel23	Default Lib	Det	ault Lib			
	Channel24	Default Lib	Det	oult Lib		2	
	Channel25	Dofault Lib		'oult Lib		۷	
	Channel26	Detault Lib		ault Lib		۷	
	Channel27	Detault Lib		ault Lib			
	Channel28	Default Lib	Det	ault Lib			
	Channel29	Default Lib	Del	ault Lib	80%	۷	-

Figure 6-35 Face comparison

Figure 6-36 Strategy



6.4.4.2 License Comparison

At license plate interface, users can set strategies of different channels of license plate recognition cameras, such as register and unregister, enable alarming, event action, arming time, as shown in Figure 6-37.

ίđ,	AlRecognition	Real-time comparison	Smart Search	Archives Library	Comparison Configuration		×
ł	Channel	Registered detection library		Unregistered detection	nlibrary	Operate	
	Channel 14	Default Lib		Default Lib		۷	î
£	Channel 15	DefaultLib		DefaultLib		۷	
	Channel 16	Default Lib		Default Lib			
	Channel17	Default Lib		Default Lib			
	Channel18	Default Lib		Default Lib			
	Channel 19	Default Lib		Default Lib			
	Channel20	DefaultLib		Default Lib		۷	
	Channol21	Default Lib		Dofault Lib		۷	
	Chamel22	DefaultLib		DefaultLib		4	
	Channel23	Default Lib		Default Lib			
	Channel24	Default Lib		Default Lib			
	Channel25	Default Lib		Default Lib			
	Channel26	Default Lib		Default Lib			
	Channel27	Default Lib		Dofault Lib		۷	=
	Channel28	Default Lib		Default Lib		۷	
	Chamel29	DefaultLib		DefaultLib		4	
	Channel30	DefaultLib		Default Lib			
	Channel31	Default Lib		Default Lib			
	Channel32	Default Lib		Default Lib		2	2

Figure 6-37 License comparison

Figure 6-38 Strategy

<u>/</u>	Edit Strategy				×
	Channel	Channel 13			
	Registered Unregist	er.			
			License	Plate Lib	
	License Plate Lib		U		
			E	UA	
			Defa	ult Lib	
	Enable Alarm				
	Event Actions	Setti	ng		
	Arming Time	Setti	ng		
			OK	Cancel	

----End

6.4.4.3 Temperature Comparison

C C

At comparison configuration interface, click **configuration** to enter the temperature configuration, as shown in Figure 6-39.

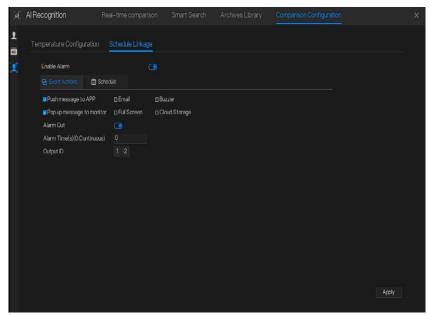
Figure 6-39 Temperature comparison

۶ť,	AlRecognition	Real-time comp	arison	Smart Search	Archives Library	Comparison Configuration		х
1	Temperature Configura	ation Schedule Lini						
£	Abnormal temperatur	e measurement alarm	•					
	Low temperature thre	eshold (0.1 – 100)						
	High temperature thre	eshold (0.1 – 100)						
	Normal temperature (
							Apply	

At temperature comparison interface, users can set low temperature threshold, high temperature threshold, and normal temperature.

Abnormal temperature measurement alarm, when it is turned on, the temperature below the low threshold and above the high temperature threshold will generate abnormal temperature alarm. When it is turned off, body temperatures below the low threshold and above the high threshold are discarded.

Figure 6-40 Schedule linkage



Enable alarm, set the schedule linkage, it will send alarm information if the temperature is higher than low threshold and lower the normal temperature, or higher than normal temperature and lower than high threshold.

6.4.4.4 Mask Detection Configuration Figure 6-41 Mask detection configuration

ίđ,	Al Recognition	Real-time comparison	Smart Search	Archives Library	Comparison Configuration		×
•	Mask Detection Configurati	on Schedule Linkage					
Ľ	Mask Detection Enable	0					
۲	Mode	No Mask					
骿	Confidence Degree						
						Apply	

Enable mask detection, choose the mode (with or without a mask). Set the confidence degree, the default value is 90.

Figure 6-42 Schedule linkage

制	Al Recognition F	leal-time comparis	son Smart Search	Archives Library	Comparison Configuration	Х
₽ №	Mask Detection Configuration	Schedule Link	age			
I c	Enable Alarm		D			
	Event Actions	nedulo				
	■Push message to APP ■Popup message to monito Alarm Out Alarm Time(s)(0:Continuous) Output D	0	□ Buzzer □ Cloud Storage			
						Apply

Enable the alarm, the real-time comparison can show if someone wears a mask or not.

Choose event actions, and set the schedule.

Click "Apply" to save the settings.

6.4.4.5 Personnel Count Configuration Figure 6-43 Personnel count configuration

[e]	Al Recognition	Real-time comparison	Smart Search	Archives Library	Comparison Configuration	×
1	Personnel Count Configura	lion Schedule Linkage				
Ľ	Personnel Count Enable	0				
۲	OSD Enable	۲				
	Counting Clear Interval	1Day				
	Set Correction Value					
	Alarm Threshold					
	Alarm Interval					
	OSD displayed on the sec	ondary screen				
						Apply
						264-9

Enable personnel count to start the people counting.

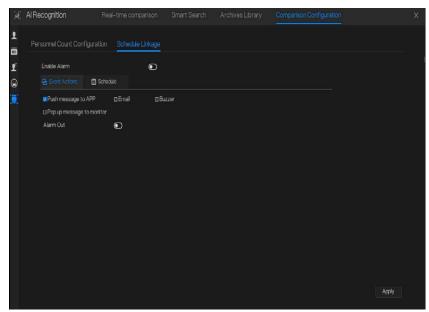
Enable OSD to show OSD (OSD is displayed on the auxiliary screen, you need to start the auxiliary screen in "System> Auxiliary Screen" before displaying).

Select the counting clear interval (never, 10 minutes, half an hour, 1 hour, 12 hours, 1 day). Set correction value, Configure the calibration value to start the manual calibration of the personnel count value.

Alarm threshold: when the people count reaches the threshold, an alarm is activated. Alarm interval: 10s, 20s, 30s, 40s, 50s, 60s.

Click "Apply" to save the settings.





Set schedule linkage action to alarm.

6.5 Attendance (Only for Some Models)

6.5.1 Attendance Data

Click to enter attendance data interface, as shown in Figure 6-45.

Figure 6-45 Attendance data

🗄 Atten	dance							
Attendance Li	brary	Attendance S	ummary					t Export
🕨 🗾 Default		Job Number	Name	Department	Required Times		Absence	Early Leave
🕨 🗆 app		zhazhahui	zhazhahui	DetaultLib				
🕨 🗆 rwr		ganzhiwei	Gan Zhiwei	Detault Lib				
technol	ogy	luofachun	Luo Fachun	Default Lib				
🕨 🗆 image		panlingling	Pan Lingling	Default Lib				
enginee	ring	tangjie	Tang Jie	Default Lib				
platform		huangshuhua	Huang Shuhua	Default Lib				
▶ 🗆 ipc		zhongzebin	Zhong Zebin	Default Lib				
		lipuin		Default Lib				
Today		panjianing	Pan Jianing	Default Lib				
Custom time p	orlad	lidongliang	LiDongliang	Default Lib				
		liuming	Liu Ming	Default Lib				
		zhanglong	Zhang Long	Default Lib				
		kanglonggon	Kang Longgon	Dofault Lib				
Search Type		wangshuang	Wang Shuang	Default Lib				
Attendance S	Summary	zhongzebin	Zhong Zebin	Default Lib				
		linrendi	Lin Rendi	Default Lib				
Reset	Seprch					1/6 X		

Operation Steps

Step 1 Tick the attendance library.

Step 2 Choose time mode, such as today, this week, this month and custom time.

Step 3 Choose search type, such as attendance summary and attendance details.

Step 4 Click search, the result will show in interface.

Step 5 Click Export to export the query result.

6.5.2 Attendance Management

In attendance management, users can set attendance rule, library and check point, as shown in Figure 6-46.

Attendance	Attendance Data	Attendance Management	х
	Attendance Rule Settin	ge	
> Attendance Library	Working Time:	Start-work time 09:30 End-work time 11:00	
▷ Attendance Check Point S.	Workday Setting:	⊡Sun selMun seTue seWed seThu seFri ⊡Set	
	Check-in valid time:	Before start-work time 10 min to After start-work time 30 min	
	Check-out valid time:	: Before end-work time 10 min to After end-work time 30 min	
	-If employee does no	t check in when starting work, mark as absent	
	-If employee does no	t check out when ending work, mark as absent	
		Apply	

Figure 6-46 Attendance rule settings

Operation Steps

Step 1 Set start work time and end work time.

Step 2 Tick the workday

Step 3 Set valid time of check in and check out.

Step 4 Click Save to save the setting.

Attendance library

Step 1 Click **Attendance Library** to add library, the attendance library can call the face database directly.

		8			
Attendance					
▷ Attendance Rule Settings	Attendance Library				
Attendance Library	Face Library 🔮	Library Management		Attendance Library	
▶ Attendance Check Point S.	D 12 Nems © Defait Lib R app 2 mm 2 technology 2 tech		» Add « Delete	12 Items Default Lib app unvr technology umage engineering platform lipc unknow test download	
k					Apply

Figure 6-47 Attendance library

Step 2 Tick the library and click Add to add to attendance library. If you want to modify the library.

Step 3	click Ø	Database management	to enter the fa	ace database	management to	modify
--------	---------	---------------------	-----------------	--------------	---------------	--------

parameter.

Step 4 Click Save to save the setting.

Attendance check point settings:

Step 1 Click Attendance check point settings to set point, as shown in Figure 6-48.

Attendance Rule Settings	Attendance Check Poi	nt Settings			
> Attendance Library	Channel	Attendance Library	Similarity	Enabled	Operate
	Channel01	Default Lib;app:nvr;technology;mage;engineering;platform;ipc;urknow;test;hardw.	80%	Start	۷
	Channel02		80%	Start	۷
	Charmel03			Start	2
	Channel04			Start	۷
	Channel05		80%	Stort	۷
	Channel06	Default Lib;app:nvr;technology;mage;engineering:platform;ipc;urknow;test;hardw.			۷
	Channel07			Start	۷
	Channel08	Default Lib, app, nvr, technology; mage, engineering.platform, ipc, unknow, test, hardw.		Start	∠
	Channel09		80%	Start	
	Channel 10				
	Channel11		80%	Start	2
	Channel 12			Stort	2
	Channel 13			Start	۷
	Channel14			Start	۷
	Channel 15		80%	Start	۷
1	Channel16			Start	2

Figure 6-48 Attendance check point setting

Step 2 Click dit check point setting, as shown in Figure 6-49

Figu	The 0-49 Check	point	
Attendance Check Po	int Settings		×
Channel	Channel03		
Enable			
Similarity			+ 87
Attendance Library	All libraries	5	
	✓ Default Lit)	
	employee		
		OK	Cancel

Eigung 6 40 Chaols point

- Step 3 Enable the function, set similarity and tick the library, all face detection cameras can be set the check points
- Step 4 Click **OK** to save the setting.

---End

6.6 Thermal Temperature (Only for Some Models)

The thermal temperature function is only available for some devices. If the current device does not have the function, please ignore it.

6.6.1 Temperature Parameters

Temperature parameters include: temperature unit, ambient type, ambient temperature, cavity temperature, correctional coefficient and area temperature display mode.

Operation Procedure

Step 1 Choose Thermal >Temperature Parameters.

The **Temperature Parameters** page is displayed, as shown in Figure 6-50.

Figure 6-50	Temperature	Parameters	interface
-------------	-------------	------------	-----------

C) Thermal		
▷ Schedule Linkage		
	\bullet	
		Copy Apply

Step 2 Set the parameters according to Table 6-1.

Table 6-1 Temperature parameters

Parameter	Description	Setting
Open Temperature Measure	Enable temperature measure.	

Parameter	Description	Setting
Temperature Unit	Celsius and Fahrenheit temperature units are available.	[Setting method] Select a value from the drop-down list box. [Default value] Celsius
Ambient Temperature	The ambient temperature of camera. It is set when ambient is outside.	[Setting method] Enter a value manually.
Cavity Temperature	The cavity temperature of camera.	N/A
Correction Coefficient	Correction coefficient is refer to the deviation of measured object temperature and actual temperature. For example: 1. The measured object temperature is 30, and actual temperature is 37, so the correction coefficient should be 7. 2. The measured object temperature is 37, and actual temperature is 30, so the correction coefficient should be -7.	[Setting method] Enter a value manually. [Default value] 0.00
Area Temperature Display Mode	The display position of temperature information on the live-video image.	[Setting method] Select a value from the drop-down list box. [Default value] Low left
Font Border	The font will be bolded.	[Setting method] Enable or disable [Default value] disable
Custom Colors	Enable to custom the color, there are nine colors chosen.	[Setting method] Enable or disable [Default value] disable

Parameter	Description	Setting
Area Temperature Type	There are three types of area temperature.	[Setting method] Select a value from the drop-down list box. [Default value] Highest Temperature
Measure Mode	There are two types measure modes.	[Setting method] Select a value from the drop-down list box. [Default value] General
Display Alarm Area	N/A	[Setting method] Enable or disable [Default value] disable
Area Alarm Interval	N/A	[Setting method] Enter a value manually ranges from 1 to 1800. [Default value] 10

Figure 6-51 Advanced parameter

Temperature Parameters			
Channel			
		Сору	Apply

Table 6-2 Advanced parameters

Parameter	Description	Setting
Dimming Mode	There are auto and manual modes. It will show on temperature item.	[Setting method] Select a value from the drop-down list box. [Default value] Auto
Greater Prominent	Enable that, the image will show the setting color if the temperature is higher than set value.	[Setting method] Enter a value manually. Choose one color to show.
Section Prominent	Enable that, the image will show the setting color if the temperature is between minimum and maximum temperature.	[Setting method] Enter a value manually. Choose one color to show.

Parameter	Description	Setting
Less Prominent	Enable that, the image will show the setting color if the temperature is lower than set value.	[Setting method] Enter a value manually. Choose one color to show.

Step 3 Click **Copy** to copy the same settings to others thermal cameras.

Step 4 Click Apply.

Step 5 The message "Apply success" is displayed, the system saves the settings.

----End

6.6.2 Temperature Area

Operation Procedure

Step 1 Choose Thermal >Temperature Area.

The Temperature Area page is displayed, as shown in Figure 6-52

Figure 6-52 Temperature area and alarm configuration

	Measure										
			Y								
					-						
				- 4	203						
	-	-	-	S 8							
	0.	-									
	6										
×	83				36.7						
k	(8) ± : Enable	Name	Туре	Alarm Type							
٠		Name		Alarm Type Threshol V	Warning Value		Maxinum Alarm Value 60.000	Emission Rate 0.9500	Distance(M) 15.000	Alarm	
×	Enable		Rectav		Warning Value 48.000	Alarm Value					
٠	Enable	Area0	Recta∨ Polyg.∨	Threshol 🗸	Warning Value 48.000 48.000	Alarm Value 50.000	60.000	0.9500	15.000		
•	Enable © 0 © 1	Area0 Area1	Recta∨ Polyg ∨ Point ∨	Threshol V Threshol V	Warning Value 48.000 48.000 48.000	Alarm Value 50.000 50.000	60.000 60.000	0.9500	15.000 15.000		
k	Enable ♥0 ♥1 □2	Area0 Area1 Area2	Rectav Polyg v Point v Point v	Threshol V Threshol V Threshol V	Warning Value 48.000 48.000 48.000 48.000	Alarm Value 50.000 50.000 50.000	60.000 60.000 60.000	0.9500 0.9500 0.9500	15.000 15.000 15.000		
•	Enable © 0 © 1 □ 2 □ 3	Area0 Area1 Area2 Area3	Recta∨ Polyg.↓ Point ↓ Point ↓ Point ↓	Threshol V Threshol V Threshol V Threshol V	Warning Value 48.000 48.000 48.000 48.000 48.000	Alarm Value 50.000 50.000 50.000 50.000	60.000 60.000 60.000 60.000	0.9500 0.9500 0.9500 0.9500	15.000 15.000 15.000 15.000		

Step 2 Set the parameters according to Table 6-3

Table 6-3 Temperature area and alarm configuration				
Parameter	Description	Setting		
Channel	N/A	[Setting method] Select a value from the drop-down list box. [Default value] 1		
Measure Mode	Set at temperature parameter interface.	N/A		
PTZ Area(only use for PTZ cameras)	Choose or set the preset, adjust the camera with PTZ keyboard. The all presets can set 20 areas to alarm	Set the preset manually, or select an existing preset in the drop-down list.		
Enable	Tick to enable alarm areas.	N/A		
ID	It ranges from 0 to 19.	N/A		
Name	Area name of temperature area.	[Setting method] Enter a value manually.		
Туре	Type of temperature area. ID 0 is default rectangle area, which is full screen. There are 20 areas can be set, these are from 0 to 19 area.	[Setting method] Select a value from the drop-down list box. [Default value] Rectangle/Point		
Alarm Type	Threshold alarm and Temperature difference alarm are available for alarm type.	[Setting method] Select a value from the drop-down list box. [Default value] Threshold alarm		
Warning Value	Camera will warn when the surveillance object temperature reaches the warning value.	[Setting method] Enter a value manually. [Default value] 48.00		
Alarm Value	Camera will alarm when the surveillance object temperature reaches the alarm value.	[Setting method] Enter a value manually. [Default value] 50.00		
Maximum Alarm Value	The maximum value of the alarm range, if the alarm value is exceeded, no alarm will be generated.	[Setting method] Enter a value manually. [Default value] 60.00		

Table 6-3 Temperature area and alarm configuration

Parameter	Description	Setting
Emission Rate	The emission rate is the capability of an object to emit or absorb energy. The emission rate should be set only when the target is special material.	[Setting method] Enter a value manually. [Default value] 0.95
Distance(M)	The distance between camera and target.	[Setting method] Enter a value manually. [Default value] 15 ID NOTE Enter actual distance when the distance between camera and target is less than 15 m. Enter 15 when the distance between camera and target is great than or equal to 15 m.
Alarm	Open or close the alarm output and linkage of area.	[Setting method] Tick the alarm areas

Step 3 Set temperature area.

- 1. Tick an area ID.
- 2. Select type from drop-list.
- 3. Press and hold the left mouse button, and drag in the video area to draw a temperature area. Right-click to finish the area selection.
- 4. Click **Apply**, the message "Apply success" is displayed, the temperature area is set successfully.

Delete a temperature area:

- 1. Select an area ID.
- 2. Click the temperature area and right-click.
- 3. Unselected the area ID.
- 4. Click **Apply**, the message "Apply success" is displayed, the temperature area is deleted successfully.

Step 4 Click Apply.

Step 5 The message "Apply success" is displayed, the system saves the settings.

6.6.3 Schedule Linkage

Operation Procedure

Step 1 Choose Thermal > Schedule Linkage

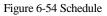
The **Schedule Linkage** page is displayed, as shown in Figure 6-53. Figure 6-53 Schedule Linkage

I Thermal	Setting Inquire			×
▷ Temperature Parameters				
⊳ Temperature Area				
▷ Schedule Linkage				
▷ Advanced		h Schedule		
		lacksquare		
				y Apply
			0.01	

Step 2 Tick the output channel.

Step 3 Enable "Alarm Record", "E-mail" button.

Step 4 Set schedule linkage.





Method 1: Click left mouse button to select any time point within 0:00-24:00 from Monday to Sunday as shown in Figure 6-53.

Method 2: Hold down the left mouse button, drag and release mouse to select the alarm time within 0:00-24:00 from Sunday to Saturday.

When you select time by dragging the cursor, the cursor cannot be moved out of the time area.

Otherwise, no time can be selected.

Method 3: Click 🚳 in the alarm time page to select the whole day or whole week.

Deleting alarm time: Click 💿 again or inverse selection to delete the selected alarm time.

Step 5 Click Apply.

Step 6 The message "Apply success" is displayed, the system saves the settings.

----End

6.6.4 Advanced

Operation Procedure

Step 1 Choose Thermal > Advanced to enter the advance interface, as shown in Figure 6-55.

Figure 6-55 Advanced

🕼 Thermal	Setting Inquire	X
▷ Temperature Parameters		
▷ Temperature Area		
▷ Schedule Linkage		
▷ Advanced		

Step 2 Select the temperature collection interval from the drop-list.

Step 3 Click Apply.

Step 4 The message "Apply success" is displayed, the system saves the settings.

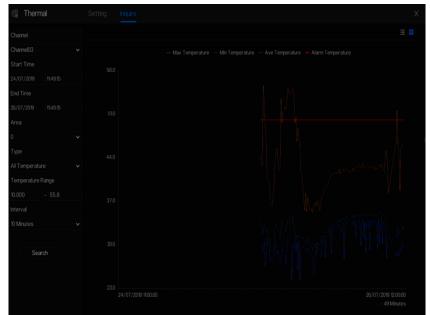
----End

6.6.5 Inquire

Operation Procedure

Step 1 Choose **Thermal** > **Inquire** to enter the inquire interface, as shown in Figure 6-56.

Figure 6-56 Inquire



- Step 2 Choose a channel is thermal camera.
- Step 3 Set the start and end time.
- Step 4 Choose the area, which is set at the temperature area interface. The default area is 0(full screen).
- Step 5 Choose the type of temperature, set the temperature range.
- Step 6 Choose the interval of showing, click **Search** to show the result, there are two modes to show result, list or picture.
- ----End

6.7 Channel Information

Click the 🕒 will show as Figure 6-57, tick the Channel or Encode, the information will show in live video screen.

Figure 6-57 Channel information



----End

6.8 Main Menu

Right-click on the UI screen, the main menu as shown in Figure 6-58. The main menu includes

Channel, Record, Network, Alarm and System.

Figure 6-58 NVR main menu

	Channel			Record			Networl	k
	Camera Sensor Setting Privacy Zone Microphone Smart	Encode OSD ROI Human Thermomet. Intelligent Tracking		Record Schedule Storage Mode Disk Detection FTP	Diak SMAR.T Disk Calculatio.	\$	Network DDNS Email IP Filter 3G/4G	802.1X Port Mapping P2P SNMP
	Alarm				System			
م م	General Video Loss Alarm In Alarm Out	Motion Detec Intelligent Ana Abnormal Alar Local Intellige	alysis Irm	Ę.	Information Security Center Logs	Gene Layo Maint		User Account Auxiliary Screen Auto Reboot

Different devices may have different functions, please refer to actual products.

7.1 Channel Management

IP cameras can directly be connected to input channels of the NVR by plugging in POE port. When IP cameras are insufficient, the NVR can automatically search for and add 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, ROI, Microphone, Human Thermometer, Smart, and Intelligent Tracking.

7.1.1 Camera

Operation Description

Click **Channel** in the main menu to access the camera management screen, as shown in Figure 7-1 There are four modes for adding cameras, manually add, batch add, search to add, POE add, and automatic add.

X System		Record	Alarm	Network	s System					
	Camera	Protoco	ol Managemi	ent						
⊳ Encode		Changel			Model			ware Version	Operate	
		CH1	192.168.3	2.74:30001	IPR58218ZAN-J2.	Private	v3.6.080	4.1004.278.0.11.9.1	∠ 0	
Sensor Setting					IPS57/30BDR/ZS.				∠ @	
⊳ OSD			169,254.1		SN-IPR5221BH-M	Private			∠ 🛍	
▷ Privacy Zone									∠ û	
> ROI										
> MICLODIOUG						Add	avinas	Delete	Batch I lod	latio.
	Online	Device		Start Search		Add)evices	Delete	Batch Upd	late
⊳ Human Thermometer	Online	Device IP			odel	Add [Protocol	Devices	Delete Firmware Version	Batch Upd Modify	
≻ Human Thermometer					odel		Devices			
⊳ Human Thermometer ⊳ Smart		P	154.8888	М	odel	Protocol	Devices			
 Microphone > Human Thermometer > Smart > Intelligent Tracking 		IP 192 168 32	154:8888	IPR5821BZA		Protocol	Devices	Firmware Version	Modify	
⊳ Human Thermometer ⊳ Smart		IP 192.168.32 192.168.32	154:8888 153:30001 132:30001	IPR582182.4 IPP5790D	N-J2-88.0-13	Protocol ONVIF Private	Devices	Firmware Version v3.6.0804.1004.3.0.11.9.0	Modify	
⊳ Human Thermometer ⊳ Smart		P 192.168.32 192.168.32 192.168.32	154:8888 153:30001 132:30001 90:30001	IPR58218ZA IPP5790D SN-1	N-J2-B8.0-13 DN/B2.2/23	Protocol ONVIF Private Private		Firmware Version v36.0604.0044.3.0.119.0 t36.0621.004.3.0.5.10	Modify	
⊳ Human Thermometer ⊳ Smart		P 192,168,32 192,168,32 192,168,32 192,168,32	154:8888 153:30001 132:30001 90:30001 79:30001	IPR58218ZA IPP5790D SN IPR54	N-J2-88.0-13 DN/82.2/23 ISP-23	Protocol ONVIF Private Private Private		Firmware Version v3.6.0804.1004.3.0.119.0 t3.6.0821.1004.3.0.5.10 v3.6.1304.1004.3.0.4.10	Modify	

: Modify device parameters, remote channel is based on cameras (human body

temperature has two remote channels, fisheye cameras have four remote channels) as shown in Figure 7-2.

Channel Name	Channel 10
³ Address	192 . 168 . 1 . 83
rotocol	Private 🗸
lort	30001
lsername	admin
assword	****
lemote Channel	CH-1 🗸

Figure 7-2 Modify device parameter

----End

7.1.1.1 Add Camera Automatically

The NVR can add automatically cameras to the camera list.

Operation Methods

Method 1: Click StartSearch button, the cameras in the same network as your recorder will show in list, the search will be lasting for 20 seconds. Input username and password (the default value both are admin) click Add Devices, the cameras in the list would be added to channels directly. Method 2: Select the cameras you want to add, and click Add Devices, the selected cameras would be added to the camera list.

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

On the camera management screen, check the status of channels 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 the same network as NVR.

----End

7.1.1.2 Add Camera Manually

Operation Steps

Step 1 Click to add devices as shown in Figure 7-3.

Channel	IF		Protocol	
CH1	169.254.1	0.2:30001	Private	< III
CH2	192.168.99	.146:30001	Private	
СНЗ	192.168.99.145:30001		Private	
Channel				
IP Address				
Protocol		ONVIF		~
Port		80		
Username				
Password				
Remote Chann	nel			

Figure 7-3 Add camera screen

- Step 2 Input IP address, port, user name and password of this camera. Double click the online camera IP to copy its configuration. Quick change of other channel's parameters can be done.
- Step 3 Select a protocol from the drop-down list(ONVIF, Private, custom protocols). Remote channel is only used for multi channels cameras, such as human temperature cameras, fisheye cameras, and so on.

Step 4 Click OK, the camera is added successfully.

If all channels of the NVR 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 would be shown on list at offline.

The protocol can be chosen the custom protocols these are set at protocol interface.

The user can click the added channel to copy the information to save the time, you can just need to modify difference information, such as the remote channel.

----End

7.1.1.3 Add Camera by RSTP

If the user wants to add the different protocol cameras to NVR, you can set the protocol

management, and add cameras one by one, as shown in Figure 7-4.

Figure 7-4	Protocol	management
------------	----------	------------

🛪 System	Channel	Record	Alarm	Network Sy	sten			×
	Camera							
▷ Encode	Custom	Protocol		Custom Prot	ocol 1			
 ▷ Sensor Setting ▷ OSD 	Protoco	l Name		Custom 1				
 Privacy Zone 	Stream			Main Stro		ream		
⊳ ROI	Protoco	l Туре		RTSP				
▷ Microphone	Port Path							
▷ Human Thermometer		::[Type]://[#	P Address]:[Po	rt]/[Path];				
⊳ Smart								
▹ Intelligent Tracking								
							Apply	

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 of the IP camera.

Step 7 Input the path (it may vary with different camera models).

Step 8 Click Apply to save the settings.

Choose the protocol from the drop-down list, the protocol is set at protocol management interface.

The cameras should be confirmed to the protocols.

----End

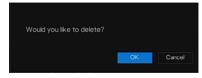
7.1.1.4 Delete Camera

Operation Steps

Step 1 Select a camera to delete in the camera list and click **LIM**, the delete confirmation

message screen is displaying, as shown in Figure 7-5.

Figure 7-5 Delete confirmation message



Step 2 Click OK, the camera will be deleted successfully.

7.1.1.5 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

① Update
Reboot
බු Reset
🖌 Modify IP

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

Step 2 Set the directory click	OK	to update camera.					
Figure 7-7 Select directory of softw							

Device List O			🖬 🗊 🖬
/dev/sda1			
/dev/sda2	i		
		►	
Remain/Total			
0.7 GB/0.7 GB			
		OK	

Step 3 Click **Reboot**, message "**Are you sure to reboot**? " would show, click OK 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 OK to reboot 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 IP address of the online camera can be modified, click **Modify IP** to modify as shown in following figure, input the new IP address and subnet mask.

```
🛄 ΝΟΤΕ
```

Update need upload the firmware by flash driver.

7.1.2 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 7-8.

🛠 System	Channel Record Alarm	Network System			×
⊳ Camera	Encodo				
	Channel	[1]Channel01			
▷ Sensor Setting					
⊳ OSD	Stream Information	Main Stream	Sub Stream		
Privacy Zone	Video Format	H265	H265		
⊳ ROI	Audio Encode Type				
Microphone	Resolution	1920×1080	704x576		
Human Thermometer	Frame Rate(fps)				
⊳ Smart	l Frame Interval(Frame)				
▶ Intelligent Tracking	Bitrate Type	CBR	CBR		
	Bitrate(kbps)				
	Quality				
	Smart Encode	۲			
				Сору А	pply

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 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.

7.1.3 Sensor Setting

Sensor setting refers to basic attributes of pictures, it includes the 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 7-9.

Figure 7-9 Sensor setting screen

🛠 System	Channel Record Alarm Network System	×
⊳ Camera	Sensor Satting	
⊳ Encode	2022-04-24 12:54:48 Sun	
	Channel [1]Channel01 V	
⊳ OSD		
▹ Privacy Zone		
▶ ROI	1-Dice-isigned all	
▷ Microphone		
> Human Thermometer	3	
⊳ Smart	Image Scene Exposure White Balance DayNight Noise Reduction Enhance Image	
▶ Intelligent Tracking	Scone Default V	
	Brightness – – – + 50	
	Sharpness – – – + 50	
	Contrast – – – • 50	
	Saturation – ———————————————————————————————————	
	Defait Apply	

The Sensor Setting are as follows:

Brightness: it indicates brightness or darkness of an image.

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.

Operation Steps

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

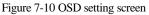
Step 2 Select scene from the drop-down list. The default values of picture parameters vary with scenarios.

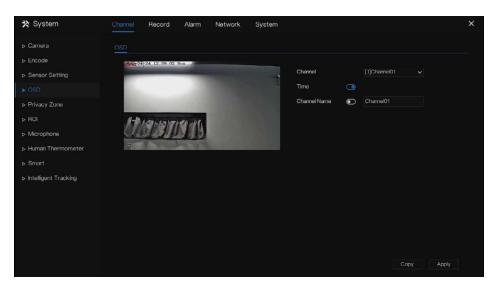
Step 3 Set parameters.

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

7.1.4 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 7-10.





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.
- 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

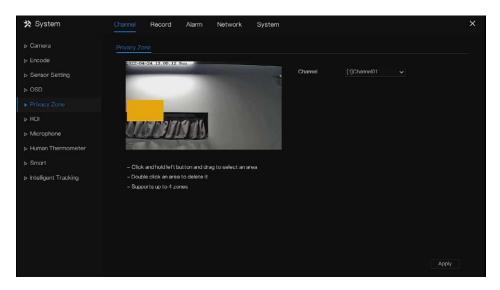
7.1.5 Privacy Zone

The system allows you to mask images in a specified zone and which 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 7-11.

Figure 7-11 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 Copy and select channels or tick **all**, then click OK to apply the privacy

settings to cameras in selected channels , click Apply to save privacy settings. Step 4 Double click privacy area to delete setting.

----End

7.1.6 ROI

UI System Setting

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 7-12.

🛠 System	Channel Record Alarm Network System			×
⊳ Camera				
⊳ Encode	1022-04-24 15:29:14 Sun			
▷ Sensor Setting	Ch	hannel [1]	Channel01 🗸	
⊳ OSD	Str	tream Ma	nin Stream 🗸 🗸	
Privacy Zone	Are	realD 1		
	H-P Jon Jonande Ja	nable 💽		
⊳ Microphone	Le	evel 5		
> Human Thermometer	Art	rea Name		
⊳ Smart	– Note: Max size 50%			
▷ Intelligent Tracking	– Right click to remove the zones drawn			
	– Special characters are not supported: <>% & \"/, ;= +			
				Apply

Figure 7-12 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	

Parameter	Description	Setting
Area ID	ROI area ID, there are 8 area	[Setting method] Select a value from the drop-down list box. [Default value] 1
Level	The measure result of ROI. The higher the grade, the clearer the area inside and the more vaguer the area outside. 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.

----End

7.1.7 Microphone (Only for Some Models)

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 7-13.

Figure 7-13 Microphone

🛪 System	Channel Record Alarm	Network System	×
⊳ Camera	Microphone		
Carruera Carruera Encode Sensor Setting OSD Privacy Zone ROI Microphone Microphone Smart Intelligent Tracking	<u>Microphono</u> Channel Microphone Type Microphone Volume	[1]Chame01 C Linc h	
			Apply

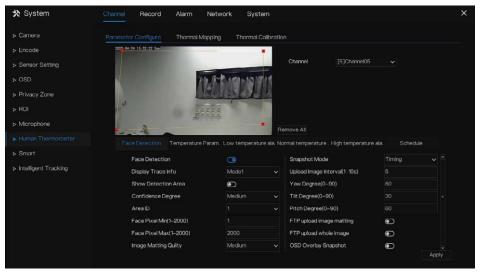
Table 7-2 Microphone

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: Line In An active audio input is required.	[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.

7.1.8 Human Thermometer (Only for Some Models)

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 7-14.

Figure 7-14 Human thermometer



7.1.8.1 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. OFF, mode 1 and mode 2	[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,	[Setting method]

System Setting		User Man
	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.	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 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 mode 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 picture.	[Setting method] Input a number from 0 to 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 7-15 Temperature parameters

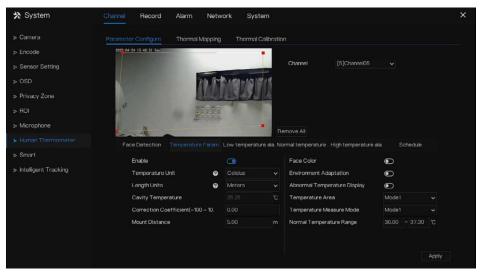


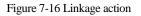
Table 7-4 Temperature parameters

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

Parameter	Description	Setting
Correction Coefficient	Correction coefficient refers to the deviation of measured object temperature and actual temperature. For example: 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 .	[Setting method] Enter a value manually. [Default value] 0.00
Mount distance	The actual distance between the detection person and the device, it is set to facilitate the temperature measurement accuracy.	[Setting method] Select a value from the drop-down list box. [Default value] General
Face color	Enable, if the camera detect the face and the face will be covered color, normal is yellow, and high temperature is red, as shown in figure.	[Default value] Disable
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, shows 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

Parameter	Description	Setting
Temperature measure mode	Two modes, mode 1 is suitable for high air temperature, if the forehead temperature is less than 31 °C, not to 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
Normal temperature range	Set the temperature range, when the detection is out of range, it will be alarming.	[Setting method] Enter a value manually. [Default value] 36 ~37.3

Low temperature alarm linkage / Normal temperature linkage / High temperature linkage: when the detection temperature is meet the setting, you can set the linkage action to alarm, as shown in Figure 7-16.



	_	Email	\odot
Push message to APP		Buzzer	
Pop up message to monitor	۲		-
Email	\odot	FTP	\odot
Buzzer		PTZ	lacksquare
		Full Screen	lacksquare
FTP	lacksquare		0
PTZ	lacksquare	Enable Alarm Out	\odot
Full Screen		Enable Camera Alarm Out	
		Enable Event Recording	
Enable Alarm Out	lacksquare		

Set the alarm linkage schedule.

Click Apply to save the settings.

7.1.8.2 Thermal Mapping

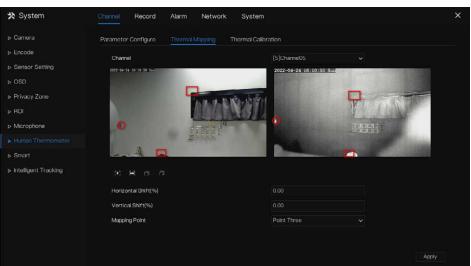


Figure 7-17 Thermal mapping

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
Horizontal shift (%)	The points move small at horizontal direction.	[Setting method] Enter a value manually. [Default value] 0.00
Vertical shift (%)	The points move small at vertical direction.	[Setting method] Enter a value manually. [Default value] 0.00

Parameter	Description	Setting
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 .

7.1.8.3 Thermal Calibration

Figure 7-18 Thermal calibration

Parameter Configure	Thermal Mapping	Thermal Calibratio			
2022-04-24 16:24:33	Sur		Channel	[6]Channel06	
			Enable	o	
	MUT	AS DIANY	Display Area Info	O	
	Y Y Y	CAN TABLE	Taget Temperature	40.00	
			Emission Rate	0.98	
	- APRILIA		Distance		
					Apply

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

Parameter	Description	Setting	
Emission rate	Emission rate is the thermal calibration device's base parameter, the general blackbody's is 0.98.	[Setting method] Input value	
Distance	Distance is the actual horizontal distance between measuring object and the camera	[Setting method] Input value	

----End

7.1.9 Smart (Only for Some Models)

It is only available for cameras with AI function.

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

7.1.9.1 AI Multiobject

Figure 7-19 AI multiobject

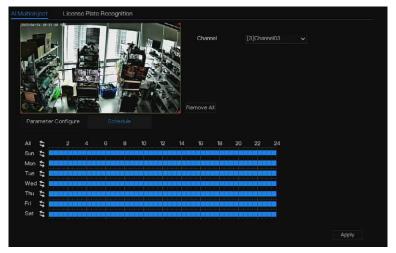
🗙 System	Channel Record Alarm	Network System			×
⊳ Camera	Al Multiobject License Plate Reco	ognition			
⊳ Encode	2022-04-24 16:27:02 SF				
▷ Sensor Setting			Channel [3]Channel03		
⊳ OSD					
▷ Privacy Zone	V CALINATION	12-350			
⊳ ROI					
⊳ Microphone			emove All		
> Human Thermometer	Parameter Configure St	chedule	emove All		
► Smart	Face Detection	©	Image Matting Qulity	Highest 🗸	
▶ Intelligent Tracking	Fulbody Detection	•	Snapshot Mode	Timing V	
	Vehicle Detection	Ð	Upload image interval(1–10s)		
	Display Trace Info	OFF V	FTP upload image matting	•	
	Show Detection Area	O	FTP upload whole image	•	
	Confidence Degree	Medium 🗸	Algorithms Library Version	v1.0.0_20220107	
				Ap	pły

Table 7-7 AI multiobject

	ruolo / / minuluoojeet	
Parameter	Description	How to set
Face detection	The camera will snap the face when someone appears in live video.	Enable
Full body detection	The camera will snap the whole body when someone appears in live video.	Enable
Licence plate detection	The camera will snap the licence when the vehicle's licence appears in live video.	Enable
Vehicle detection	The camera will snap the licence when the vehicle appears in live video.	Enable
Display trace info	Enable the function and a trace frame will show at live video. Mode 1: Mode 2:	Choose from drop list.
Show detection area	Enable to set a detection area, and the frame will show at live video	Enable
Confidence	The range of snap image, there are three type,	Choose from drop-

Parameter	Description	How to set
coefficient	such as high, mid and low. The higher the confidence, the better the snap quality and the fewer snapshots.	down list.
Face pixel min(30-300)	30-300 pixels, the smaller the pixel be set, the more face 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 body will be captured, but it may be mistaken.	Input a value range 30 to 300
Vehicle pixel min(30-800)	30-300 pixels, the smaller the pixel be set, the more face will be captured, but it may be mistaken.	Input a value range 30 to 800
Image matting quality	The quality of snap images, There are three modes can be chosen, such as low, mid and high.	Choose from drop list.
Snapshot mode	There are three 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

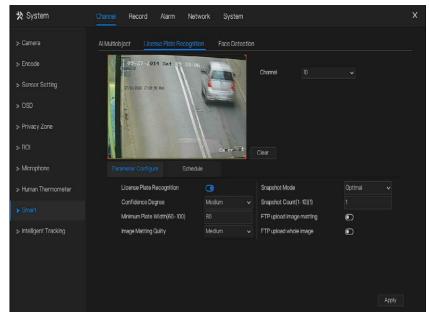
Figure 7-20 Schedule



----End

7.1.9.2 License Plate Recognition

Figure 7-21 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 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- down list.
Minimum plate width (60-100 Pixel)	60-100 pixels, the smaller the pixel, the more plates will be captured, but it may be wrong.	Input a value ranges 60 to 100
Image matting quality	The quality of snap image, There are three modes can be chosen, such as low, mid and high.	Choose from drop- down list.
Snapshot mode	There are three 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 image	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

Table 7-8 License plate recognition

----End

7.1.10 Intelligent Tracking (Only for Some Models)

This function is available for high speed camera.

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.

Channel Record Alarm	Network System		×
Intelligent Tracking			
Channel			
Intelligent Tracking	0		
Calibration Coefficient	- •		
Trace Magnify	•		
Time Of Duration(s)	-	• + 212	
			Apply
	Intelligent Tracking Channel Intelligent Tracking Calibration Coefficient	Intelligent Tracking Channel 4 Intelligent Tracking 3 Calibration Coefficient - • Trace Magnify - •	Intelligent Tracking Channel Intelligent Tracking Calibration Coefficient Trace Magrify

Figure 7-22 Intelligent tracking

Table 7-9 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
Calibration Coefficient	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	[Setting method] Drag the slider. [Default value] 1
Trace Magnify	It is the value of lens zoom, it has a large influence on the real-time tracking magnification,	[Setting method] Drag the slider. [Default value] 7

Time of Duration	The maximum time of a tracking period, it ranges from 0 to 300 s.	[Setting method] Drag the slider. [Default value] 120
------------------	---	--

----End

7.2 Record Setting

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

7.2.1 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 7-23.

Figure 7-23 Record management screen

> Record Schedde > Disk > Storage Mode > SMART > Disk Detection > Disk Calculation > Disk Calculation > FTP All \$ 2 4 6 8 10 12 14 16 18 20 22 24 Sun \$ 100000000000000000000000000000000000	🛪 System	Channel F	Record	Alarm	Netwo	ork	Syst	em						×
Chamel [1]Chamel01 > Storage Mode Enable Record > SMAR.T Enable Record Audio > Disk Detection Enable Record Audio > Disk Calculation All \$ 2 4 6 8 10 12 14 16 18 20 22 24 > FTP Sun \$ 00000000000000000000000000000000000		Record Schoo	tulo											
	 > Disk > Storage Mode > SMAR.T > Disk Detection > Disk Calculation 	Channel Enable Re- Enable Re- Enable AN Al 4 Sun 4 Mon 4 Tue 4 Wed 4 Fri 4 Fri 4	cord cord Audio IR		6	9 D D		14	18	22	24	Alarm Motion I/O M I/O		
Copy Apply													Apply	

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 Enable ANR, the camera is installed with SD card, if the camera is disconnected from the network, when the network is recovered, the NVR can read the recording of camera and copy the loss video form the SD card.

Step 5 Set the record schedule.

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.



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 is all week.

Users can choose 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.

The ANR function can be used only for the cameras with supplementary recording function.

Users can set different alarms to record.

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

Step 6 Deleting record schedule: Click again or inverse selection to delete the selected

record schedule.

Step 7 Click Copy and select channels or tick **all**, then click OK to apply the record management settings to selected channels , click Apply to save settings.

7.2.2 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 time.

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 7-24.

UI System Setting

	•	are / 2 / Disk sereen	
🛪 System 🛛	Channel Record Alar	m Network System	×
▷ Record Schedule	Disk		
▷ Storage Mode	Disk1	Disk2	
⊳ S.M.A.R.T	Capacity 12TB	Capacity 3TB	
Disk Detection			
▷ Disk Calculation			
	Disk Status	Normal	
	Disk SN	5QJ8VD9B	
	Used Space	149GB	
	Disk Group		
	Recording Overwrite		
	Expired Time(Day)		
			Apply

Figure 7-24 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 overwrote 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.

The disk groups can keep the recording of channels at different disks, it will improve the storage efficiency.

The expired time is 0, it means the disk will be rewrite only when the disk is full .

----End

7.2.3 RAID (Only for Some Models)

The NVR support to build/ edit/ delete the RAID. Users can choose the type of RAID according to the importance of recording.

RAID is only used for the device with 4 disks or more. And the disks must be enterprise level disks. The capacity of disks is the same for efficient using.

The maximum capacity of RAID cannot exceed 100T.

RAID5 at least 3 disks can be created. RAID6 at least 4 disks can be created. RAID10 at least 4 disks can be created. Create hot spare disk need more one disk or double basic disks.

The capacity of disks is the same for efficient using

 ★ System
 Chand
 Record
 Alam
 Network
 System
 X

 > Record Schedule
 RAD

 > Disk
 D
 Create RAD
 Image: Create RAD

Figure 7-25 RAID

Operation Steps

Step 1 Click **RAID** to create the RAID.

Step 2 Click Create to choose a disk to create a new RAID.

Step 3 Tick Hot-spare Disk to back up in case the disk is broken. The number of disk must be

more than one. Step 4 Click OK to save the creation, format the new RAID.

7.2.4 Storage Mode

Users need to distribute the channels to different disk groups, and use disk capacity reasonably, as shown in Figure 7-26

🛠 System	Channel Recor	d Alarm	Network			
▹ Record Schedule						
⊳ Disk						
	Mode Selection		Group			
⊳ SMART	Disk Group					
Disk Detection	Channel		1 2 3 4	5 6 7 8		
Disk Calculation						
						Apply
	The default Chan	nel belongs to Gr	oup 1			Apply
	The default Chann	el belongs to Gr	oup 1			Apply
	The default Charr	nel belongs to Gri Disk	oup 1	Channel	Used Space	Apply Capacity
			oup 1	Charnel 1-4	Used Space 149GB	
		Disk	oup 1			Capacity
		Disk Disk1	оцо 1 		149GB	Capacity 12.0TB

Figure 7-26 Storage mode

Operation Steps

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

If the channels are not in list, it means NVR will not record these channels, please make sure that all channels are in list.

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

----End

7.2.5 S.M.A.R.T

7.2.5.1 S.M.A.R.T

S.M.A.R.T is Self-Monitoring Analysis and Reporting Technology, u which is able to check the disk as shown in Figure 7-27.

🗙 System	Channel	Record Alarm	Network	System					
Record Schedule	S.M.A.R.T	WDDA							
> Disk	Disk	Disk1							
Storage Mode	Disk SN	5QJ8VD9B	~	Disk Model	WDC W	D121EJRP-8985	TVO		
	Tempera			Working Time	2.9 Mon				
 Disk Detection 	Disk Hea			fronting fille	LIGHTIGHT	51 / ·			
 Disk Calculation 		Attribute Name		Value		Threshold	Туре	Raw Value	
		raw-read-error-rate	ОК	100	100	16	prefail	0x000000000000	
		throughput-performa.					old-age	0x6000000000000	
		spin-up-time					prefail	0x95019e010800	
		start-stop-count					old-age	0x240000000000	
		reallocated-sector-c.					prefail	0x0000000000000	
		seek-error-rate					old-age	0x0000000000000	
		seek-time-performa.		140	140		old-age	0x0000000000x0	
		power-on-hours	OK				old-age	0x27080000000	

Figure 7-27 S.M.A.R.T

----End

7.2.5.2 WDDA

The western digital disk has the WDDA function, the NVR can read the information of disk, so that users can view the status of disk, as shown in Figure 7-28.

Figure 7-28 WDDA

Disk	Disk					
Storage Mode		Disk1 ~				
	Disk SN	Disk1	Disk Model	WDC WD121EJF	RP-8985TY0	
	Warning		Advisory			
Disk Detection						
Disk Calculation		Attribute Name			Raw Value	
ETD		ifetime Power On Reset Alert		Normal	22.00	
	2 P	Power On Hours Alert		Normal	2087.00	
		lead Load Lifetime Count Alert		Normal	79.00	
		Current Temperature Alert		Normal		
		otal Lifetime Workload Alert		Normal		
		otal Workload Rate Alert		Normal	114.72	
	7 P	Power On Reset Rate Alert		Normal	0.01	
		lead Load Rate Alert		Normal		

----End

7.2.6 Disk Detection

Detect the disk before recording videos so that the data are secure as shown in Figure 7-29.

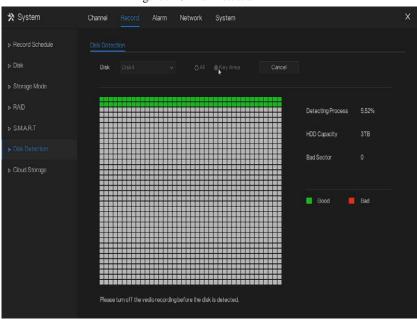


Figure 7-29 Disk Detection

Operation Steps

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

Step 2 Tick All or key Area to detect the disk. It will take some several minutes.

Step 3 Click Scan to scan the disk.

Step 4 The result of disk will show in interface

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

7.2.7 Cloud Storage (Only for Some Models)

The cloud storage can save the motion detection and intelligent analysis alarm Support Google Drive.

🛪 System	Channel Record Alarm	Network System	×
▷ Record Schedule	Cloud Storage		
> Disk	Enable	G	
▶ Storage Mode	Cloud Type	Google Drive 🗸	
⊳ RAID	Certification Status	Not Certified	
⊳ SMA.R.T	Upload Video Size(5-64MB)	5	
Disk Detection	Authorization code path		
► Cloud Storage			
Disk Calculation		D. 2007/24CS	
	Authorization code	Send 9:23	
			Apply

Figure 7-30 Cloud Storage

Operation Steps

- Step 1 Enable the cloud storage, and the UUID of code path will show.
- Step 2 Choose the cloud type, the default is Google cloud.
- Step 3 Set upload video size, the video is saving in sub stream(the video size is less).
- Step 4 Use browser to scan the UUID to jump to Google drive certification, input the account and password to certificate the NVR.
- Step 5 Input the code , click Send to fish certificate, as shown in Figure 7-31.

Figure 7-31 Certification

Cloud Storage				
Enable				
Cloud Type	Google Drive *			
Certification Status	Certification			

Step 6 Click Apply to save the settings

Google Cloud only needs to be authenticated once, without multiple authentications. After the authentication is completed, the cloud storage function can be turned on or off as required.

This function needs to be re-certified after the device is restored to factory settings.

The UUID is the path of Google drive.

----End

7.2.8 Disk Calculation

Users can calculate the usage of disk, so that he can set the storage strategy reasonably, as shown in Figure 7-32.

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

UI System Setting

	Figure 7-32 Dis	k calculation of capacity	
🛪 System	Channel Record Alarm I	Network System	×
▹ Record Schedule	Disk Calculation		
⊳ Disk	Currently total camera(s) bitrate	32.45 Mops	
⊳ Storage Mode	Calculation Mode	Computing Capacity 🗸	
⊳ S.M.A.R.T	Expect to save time	10 Day 🗸	
Disk Detection	Recording time per day	0 24 h	
	The required disk space		

Figure 7-33 Disk calculation of time

🛠 System	Channel Record Alarm N	letwork Syste	n		×
Record Schedule	Disk Calculation				
⊳ Disk	Currently total camera(s) bitrate	32.45 Mbps			
⊳ Storage Mode	Calculation Mode	Computation time			
⊳ S.M.A.R.T	Disk Capacity				
Disk Detection	Recording time per day		24		
			ay •		



7.2.9 FTP

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

🗙 System	Channel Record Alarm	Network System	×
▷ Record Schedule	FTP		
 > Disk > Storage Mode > S.M.A.R.T > Disk Detection > Disk Calculation > FTP 	Enable FTP Upload FTP Address FTP Port Account Password FTP Path	21	
1	г н Райн Upload Filo Size(0-64МВ)	5 Test	Агріу

Figure 7-34 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. After the test is successful, click "Apply" to save the settings

----End

7.3 Alarm Management

Set the General alarm information, Motion Detection, Video Loss, Intelligent Analysis,

Alarm In, Abnormal Alarm, Alarm out and Local intelligent analysis in alarm management screen.

7.3.1 General

7.3.1.1 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 7-35.

Figure 7-35 Alarm management screen

🛠 System	Channel Record Alarm	Network System	×
	General IO Control Push		
Motion Detection Video Loss	Enable Alarm Alarm Duration Time (sec)	C) 10 ~	
⊳ Intelligent Analysis ⊳ Alarm In ⊳ Abnormal Alarm	Buzzer Duration Time (sec)		
 Alarm Out Local Intelligent Analysis 			
P LOUBI FILEBILGEI L PURITYSIS			
			Apply

Step 2 Click to enable the alarm function.

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

Step 4 Click Apply to save alarm settings.

----End

7.3.1.2 IO control push

If you select normally open and tick the disabled items, the alarm input 1 will not push message.

Only when the alarm in 1 is in the normally closed, it can push alarm message.

Step 1 Enable the IO control push.

Figure 7-36 IO control push

🗙 System	Channel Record Alarm	Network System	×
	General IO Control Push		
 Motion Detection Video Loss Intelligent Analysis Alarm h Abnormal Alarm Alarm Out Local Intelligent Analysis 	Enable IO Control Alarm n Normal State Disabled Items	© 1 N/O ♥Push message to APP ≇Email	
			Apply

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

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

----End

7.3.2 Motion Detection

The NVR 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 7-37.

🛪 System	Channel Record Alarm	Network System	×
⊳ General			
▷ Motion Detection	Channel	[1]Channel01 v	
	Enable Video Loss Alarm		
Advanced Intelligent Analy.			
▶ Intelligent Analysis	Event Actions 🛗 Schedu		
⊳ Alarm In	Push message to APP		
Abnormal Alarm			
⊳ Alarm Out	Email Buzzer	© 3	
	PTZ	•	
▹ Local Intelligent Analysis	Enable Alarm Out	0	
	Enable Remote IO		
	Enable Event Recording	0	
			Copy Apply
~~			

Figure 7-37 Motion detection screen

For Email, FTP, you should set the parameters of these in advance.

Enable Remote IO, the users connect the ADAM (data acquisition modules) to NVR in advanced. Alarm time, the alarm will be duration. Remote ID, the ADAM is connected to NVR'S ID.

Port number, the alarm device is plugged to ADAM's ID. elation Steps

- Step 1 Select a channel from the drop-down list of channel.
- Step 2 Click **O** to enable motion detection.
- Step 3 Enable motion analysis if the camera detects the motion action, the area will be block as shown in Figure 7-38.
- Step 4 Enable the Event actions include: push messages to App, pop up messages to monitor, send Email, buzzer, FTP, PTZ, full screen, alarm out, camera alarm out, enable remote IO, event recordings and so on.

Step 5 Click Area page to access the motion detection area setting, as shown in Figure 7-38.

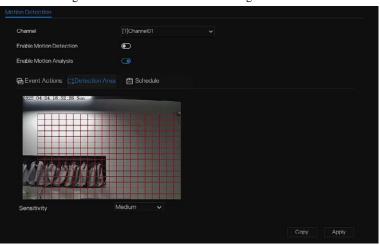


Figure 7-38 Motion detection area setting screen

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 6 Click Schedule page to access the schedule screen. For details, please see 7.2.1 Record

Schedule Figure 7-23Step 5 Set the record schedule.

Step 7 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.

📖 ΝΟΤΕ

Double click to delete the selected area.

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.

Enable the alarm out, users need to set alarm time and output ID, four ID are corresponding to back panel's alarm out, 1 A and 1 B, 2 A and 2 B, 3 A and 3 B, 4 A and 4 B.

Channel alarm out is corresponding to alarm port of camera.

🛠 System	Channel Record Alerm Network System	×
⊳ General	Minion Detaction	
► Motion Detection	Channel 2	
> Video Loss	Enable Motion Detection	
▶ Intelligent Analysis	Enable Motion Analysis 🕜	
⊳ Alarm In	Event Actions fttDetection Area	
⊳ Abnormal Alarm	Ali 🔩 2 4 6 8 10 12 14 16 18 20 22 24	
⊳ Alarm Out	Sun 💲 ann an Aonaichtean ann an Aonaichtean ann an Aonaichtean ann ann ann ann ann ann ann ann ann	
	Tue 💲 All Constant and Constant	
	Wed States and the second s	
	Fri 💲 and a second a se	
	Сару Арру	

Figure 7-39 Alarm schedule

----End

7.3.3 Video Loss

If a camera is disconnected to NVR, it will trigger video loss alarm.

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 7-40.

🛠 System	Channel Record Alarm	Network System	×
⊳ General	Video Loss		
▷ Motion Detection	Channel	[1]Channel01 🗸	
► Video Loss	Enable Video Loss Alarm	()	i .
 Advanced Intelligent Analy. Intelligent Analysis 	Event Actions 🛗 Sche	Idule	
⊳ Alarm In	Push message to APP		i .
Abnormal Alarm			l .
⊳ Alarm Out	Email Buzzer		l .
⊳ ADAM	PTZ		l .
Local Intelligent Analysis	Enable Alarm Out		l .
	Enable Remote IO		i .
	Enable Event Recording		i .
			l .
		Co	py Apply

Figure 7-40 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 include: push message to App, pop up message to monitor, send Email, buzzer, FTP, PTZ, alarm out, enable remote IO, event recording and so on.
- Step 4 Click Schedule page to access the schedule screen.
- Step 5 For details, please see 7.2.1 Record Schedule Figure 7-23Step 5 Set the record schedule.
- Step 6 Click Copy and select a channel, then click OK to apply the parameter settings to cameras in selected channels, click Apply to save video loss settings.

----End

7.3.4 Advanced Intelligent Analysis (Only for Some Models

🛄 ΝΟΤΕ

The channel camera can set the advanced intelligent analysis which are thermal image cameras or bi-spectral spectrum cameras.

At advanced intelligent analysis interface, users can set the parameters of smoker detection, smoke and flame detection, fire spot detection. Enable the linkage actions, the alarm information can be sent to user by the linkage.

The advanced intelligent analysis can be used for detecting the smoking, if someone smoke in the indoor where is forbidden smoking.

Smoke and Flame Detection can be used for detecting smoke and fire, it can be sent alarm information to avoid fire getting worse.

Fire Spot Detection can be used for finding the catching fire to quickly operate to extinguish.

7.3.4.1 Smoker Detection

The smoker detection function refers to that an alarm is generated when someone is smoking or generating spark at the deployment area.

🛠 System	Channel Record Alarm Ne	twork System	×
⊳ General	Smoker Detection Smoke and Flame De	rection Fire Spot Detection	~
 > Motion Detection > Video Loss > Advanced Intelligent Analy. > Intelligent Analysis > Alarm In 	Channel Enable Event Actions [1]Detection Area Push message to APP	[2]Channel02 v C Schedule	
 > Abnormal Alarm > Alarm Out > ADAM 	Pop up message to monitor Email Buzzer FTP	6 6 6 6	
➤ Local Intelligent Analysis	PTZ Full Screen Full Screen Time(sec) Enible Alarm Out Enible Camera Alarm Out Enible Remote IO		

Figure 7-41 Smoker Detection

Parameter	Description	Setting
Channel	Choose thermal image camera from the drop-down list.	[How to set] Choose from the drop-down list
Enable	At thermal channel, Enable the button to enable the alarm.	[How to set] Click button to enable. [Default value] OFF
Linkage action	Push message to App, Pop up message to monitor, Email, Buzzer, FTP, PTZ, Full screen, Enable alarm out, Enable Camera Alarm out, Enable Remote IO, Enable Event Recording.	[How to set] Click button to enable. [Default value] OFF
Sensitivity	The sensitivity of detecting smoker, when the value is high, the alarm can be triggered easily, but the accuracy will be lower.	[How to set] Choose from the drop-down list. [Default value] 5
Audio detection alarm	Enable, when happen the alarm, it will play audio to alarm. Choose the sound alarm file (set at the "Configuration > Alarm > Sound Alarm Output").	[How to set] Click to enable Audio Detection Alarm [Default value] OFF
Flashlight alarm	Enable, when it is triggered alarm, it flashes the light. But when users set the display mode to Mode 5 at "Configuration > Thermal > Led Control Param " interface, the light will be always on for 15s, not flash when it is alarm.	[How to set] Click to enable Flashlight Alarm. [Default value] OFF
Video Stream Draw Line	Enable the button to enable Video Stream Draw Line, the setting area frame will show on live video.	[How to set] Click to enable Video Stream Draw Line. [Default value] OFF

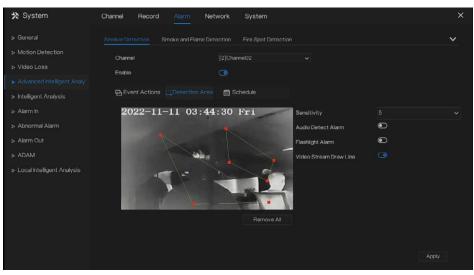


Figure 7-42 Smoker Detection – Detection Area

Set a deployment area. Move the cursor to the drawing interface and click to generate a point, move the cursor to draw a line, and then click to generate another point. This is how a line is generated. In this way, continue to draw lines to form any shape, and right-click to finish line drawing.

- A drawn line cannot cross another one, or the line drawing fails.
- Any shape with 32 sides at most can be drawn.
- The quantity of deployment areas is not limited yet and will be described in future when a limit is applied.

🗙 System	Channel Record Alarm Network System	×
⊳ General	Smicker Detection Smick and Flame Datection Fire Spot Detection	~
▷ Motion Detection	Channel [2]Channel02 v	
	Enable	
⊳ Intelligent Analysis	Event Actions Constant Area Schedule	
⊳ Alarm In	All 🔩 2 4 6 8 10 12 14 16 18 20 22 24	
> Abnormal Alarm	Sun 💲 	
⊳ Alarm Out	Mon 😂	
⊳ Local Intelligent Analysis	Thu 😋 management of the second	
	Sat 💲 managementer and an an	
		Apply

Figure 7-43 Smoker Detection – Detection schedule

Method 1: Click left mouse button to select any time point within 0:00-24:00 from Monday to Sunday.

Method 2: Hold down the left mouse button, drag and release mouse to select the deployment time within 0:00-24:00 from Monday to Sunday.

Method 3: Click S in the deployment time page to select the whole day or whole week.

• When you select time by dragging the cursor, the cursor cannot be moved out of the time area. Otherwise, no time can be selected.

Deleting deployment time: Click again or inverse selection to delete the selected deployment time.

7.3.4.2 Smoke and Flame Detection

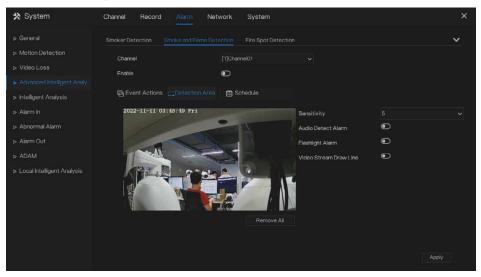
The smoke flame detection function refers to that an alarm is generated when something is smoking or generating flame at the deployment area.

🛠 System	Channel Record Alarm Net	twork System	>
⊳ General	Smoker Detection Smoke and Flame Det		~
Motion Detection	Channel	[1]Channel01 v	
	Enable		
	Enable	Ð	
Intelligent Analysis	Event Actions	m Schedule	
⊳ Alarm In	Push message to APP		
Abnormal Alarm			
⊳ Alarm Out			
	Buzzer		
⊳ ADAM			
 Local Intelligent Analysis 		lacksquare	
	Full Screen		
	Enable Alarm Out		
	Enable Camera Alarm Out		
		\odot	
	Enable Event Recording		

Figure 7-44 Smoke and Flame Detection

Parameter	Description	Setting
Channel	Choose visible channel of bispectral spectrum camera from the drop-down list.	[How to set] Choose from the drop-down list
Enable	At thermal channel, Enable the button to enable the alarm.	[How to set] Click Enable to enable. [Default value] OFF
Linkage action	Push message to App, Pop up message to monitor, Email, Buzzer, FTP, PTZ, Full screen, Enable alarm out, Enable Camera Alarm out, Enable Remote IO, Enable Event Recording.	[How to set] Click button to enable. [Default value] OFF
Sensitivity	The sensitivity of detecting smoker, when the value is high, the alarm can be triggered easily, but the accuracy will be lower.	[How to set] Choose from the drop-down list. [Default value] 5

Parameter	Description	Setting
Audio detection alarm	Enable, when happen the alarm, it will be play audio to alarm. Choose the sound alarm file (set at the "Configuration > Alarm > Sound Alarm Output").	[How to set] Click to enable Audio Detection Alarm [Default value] OFF
Flashlight alarm	Enable, when it is triggered alarm, it flashes the light. But when users set the display mode to Mode 5 at "Configuration > Thermal > Led Control Param " interface, the light will be always on for 15s, not flash when it is alarm.	[How to set] Click to enable Flashlight Alarm. [Default value] OFF
Video Stream Draw Line	Enable the button to enable Video Stream Draw Line, the setting area frame will show on live video.	[How to set] Click to enable Video Stream Draw Line. [Default value] OFF



Set a deployment area. Move the cursor to the drawing interface and click to generate a point, move the cursor to draw a line, and then click to generate another point. This is how a line is

generated. In this way, continue to draw lines to form any shape, and right-click to finish line drawing.

- A drawn line cannot cross another one, or the line drawing fails.
- Any shape with 32 sides at most can be drawn.
- The quantity of deployment areas is not limited yet and will be described in future when a limit is applied.

🛠 System	Channel Record Alarm Network System	×
⊳ General	Smoker Detection Smoke and Flame Dotection Fire Spot Detection	~
▷ Motion Detection	Channel [1]Channel01 v	
⊳ Video Loss	Enable	
 Advanced Intelligent Analy. 		
▹ Intelligent Analysis	Event Actions IIDetection Area 🛗 Schedule	
⊳ Alarm In	All 🔩 2 4 6 8 10 12 14 16 18 20 22 24	
Abnormal Alarm		
⊳ Alarm Out		
⊳ ADAM	Wed to an	
Local Intelligent Analysis		
	Sat 💲 managang kanang kan	

Figure 7-46 Smoke and Flame Detection - Schedule

Method 1: Click left mouse button to select any time point within 0:00-24:00 from Monday to Sunday.

Method 2: Hold down the left mouse button, drag and release mouse to select the deployment time within 0:00-24:00 from Monday to Sunday.

Method 3: Click S in the deployment time page to select the whole day or whole week.

 When you select time by dragging the cursor, the cursor cannot be moved out of the time area. Otherwise, no time can be selected.

Deleting deployment time: Click Sagain or inverse selection to delete the selected deployment time.

7.3.4.3 Fire Spot Detection

The fire spot detection function refers to that an alarm is generated when something starting fire at the deployment area.

Figure 7-47 Fire Spot Detection

🛠 System	Channel Record Alarm Ne	twork System	×
⊳ General			~
▷ Motion Detection	Channel	[2]Channel02	
	Enable		
⊳ Intelligent Analysis	Event Actions Detection Area	Schedule	
⊳ Alarm In	Push message to APP		
⊳ Abnormal Alarm			
> Alarm Out			
⊳ ADAM	Buzzer		
 Local Intelligent Analysis 			
	Full Screen		
	Enable Alarm Out		
	Enable Camera Alarm Out		
	Enable Event Recording		
			Apply
Parameter	Description		Setting
Channel	Choose thermal image	ge camera from the	[How to set]
	drop-down list.		Choose from the drop-down
	1		list
			1151
Enable	At thermal channel,	Enable the button to	[How to set]
	enable the alarm.		Choose from the drop-down
			list

Parameter	Description	Setting
Linkage action	Push message to App, Pop up message to monitor, Email, Buzzer, FTP, PTZ, Full screen, Enable alarm out, Enable Camera Alarm out, Enable Remote IO, Enable Event Recording.	[How to set] Click button to enable. [Default value] OFF
Sensitivity	The sensitivity of detecting smoker, when the value is high, the alarm can be triggered easily, but the accuracy will be lower.	[How to set] Choose from the drop-down list. [Default value] 5
Audio detection alarm	Enable, when happen the alarm, it will be play audio to alarm. Choose the sound alarm file (set at the "Configuration > Alarm > Sound Alarm Output").	[How to set] Click to enable Audio Detection Alarm [Default value] OFF
Flashlight alarm	Enable, when it is triggered alarm, it flashes the light. But when users set the display mode to Mode 5 at "Configuration > Thermal > Led Control Param " interface, the light will be always on for 15s, not flash when it is alarm.	[How to set] Click to enable Flashlight Alarm. [Default value] OFF
Video Stream Draw Line	Enable the button to enable Video Stream Draw Line, the setting area frame will show on live video.	[How to set] Click to enable Video Stream Draw Line. [Default value] OFF

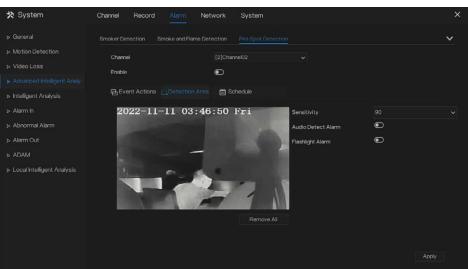
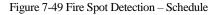
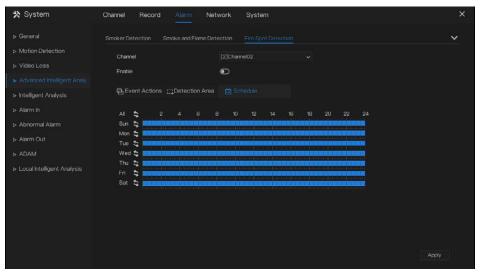


Figure 7-48 Fire Spot Detection – Detection Area





Method 1: Click left mouse button to select any time point within 0:00-24:00 from Monday to Sunday.

Method 2: Hold down the left mouse button, drag and release mouse to select the deployment time within 0:00-24:00 from Monday to Sunday.

Method 3: Click Sin the deployment time page to select the whole day or whole week.

When you select time by dragging the cursor, the cursor cannot be moved out of the time area. Otherwise, no time can be selected.

Deleting deployment time: Click again or inverse selection to delete the selected deployment time.

7.3.5 Intelligent Analysis (Only for Some Models)

The channel camera can set the intelligent analysis which are depended on the performance of cameras.

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 7-50.

🛠 System	Channel Record Alarm Ne	work System	×
⊳ General	Intrusion Line Crossing Double Virtu	Fences ObjectLeft ObjectRemoved SignalBad Loiter	~
▷ Motion Detection	Channel	[1]Channel01 v	
	Enable		
Advanced Intelligent Analy.			
	Event Actions Detection Area	🛗 Schedule	
⊳ Alarm In	Push message to APP		
> Abnormal Alarm		۲	
⊳ Alarm Out		۵	
	Buzzer		
> ADAM		٥	
Local Intelligent Analysis			
	Full Screen		
	Enable Camera Alarm Out		
	Enable Remote IO		

Figure 7-50 Intelligent Analysis screen

- Step 2 Select one action to set the alarm.(Intrusion, Line crossing, Single virtual fence, Double virtual fences, Object left, Object removed, Signal bad, Loiter, Multi loiter, Abnormal speed, Converse, Illegal parking, Personnel count, Fence, Enter area, Leave area, Advanced).
- Step 3 Select a channel from the drop-down list of channel.
- Step 4 Click **Content** to enable intelligent analysis alarm.
- Step 5 Enable the event actions include: push message to App, pop up message to monitor, send Email, buzzer, FTP, PTZ, full screen, alarm out, camera alarm out, enable remote IO, event recording and so on.
- Step 6 Click Schedule page to access the schedule screen.
- Step 7 For details, please see Figure 7-23Step 5 Set the record schedule.
- Step 8 Click Copy and select a channel, then click OK to apply the parameter settings to cameras in selected channels, click Apply to save video loss settings.

🗙 System	Channel Record Ala	Metwork System		×
⊳ General	Multi Loiter Abnormal Speer	d Converse llegal Parking	Personnel Count Fence Enter	Area Leave Area 🗸 🗸
▷ Motion Detection	Channel	[3]Channel03		
⊳ Video Loss	Enable	Ð		
⊳ Alarm In	Event Actions	ection Area 🛗 Schedule		
Abnormal Alarm	2022-04-25 11:08.11		Enable OSD	©
⊳ Alarm Out	- Fall		Counting Clear Interval	1Day 🗸
▷ Local Intelligent Analysis			Area Type	Line v
			Set Correction Value	lacksquare
			Over Perple Number Alarm	O
		ac .	Alarm Threshold	
	Control of			
	- A->B is out			
	- B->A is in			
				Apply

Figure 7-51 Personnel count

Table 7-10 Personnel	count	parameters

Parameter	Description	Setting
Enable	Click the button to enable personnel count.	[How to set] Click Enable to enable. [Default value] OFF
OSD enable	Enable, the statistical data of personnel count will show on OSD	[How to set] Click Enable to enable. [Default value] OFF
Counting clear interval	There are five modes can be chosen, such as 10 min, half-hour, 1 hour, 12-hour, 1 day.	[Setting method] Choose from drop-down list [Default value] 7
Area type	The area to distinguish entry and exit.	[Default value] Line

----End

Fence:

It is only available for fence AI multi-object cameras. When a person or car is found in detection area, it will alarm.

Users can choose several event actions to alarm.

Figure 7-52 Fence

🗙 System	Channel Record Alarm I	Network System	×
⊳ General	Multi Loiter Abnormal Speed Con	verse Illegal Parking Personnel Count <u>Fence</u> Enter Area Leave Area	~
▷ Motion Detection	Channel	[1]Chamel01 ~	
⊳ Video Loss	Enable	©	
Intelligent Analysis	Event Actions	ea 🛗 Schedule	
⊳ Alarm In			
Abnormal Alarm	Pushmessage to APP		
⊳ Alarm Out	Pop up message to monitor		
Local Intelligent Analysis	Email		
p cood intolligent variations	Buzzer		
	FTP		
	Full Screen		
	Enable Alarm Out	igodot	
	Enable Camera Alarm Out		
	Enable Event Recording		
		Apply	

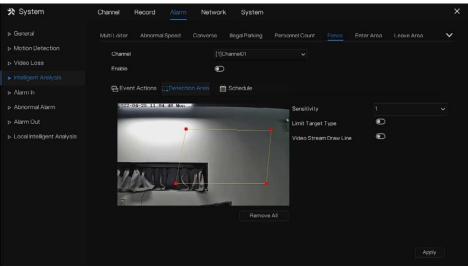


Figure 7-53 Fence detection area

Enable limit target type, choose the type(person or car, person, car).

Enable video stream draw line, when detects the car or person, it will show the blue frame to mark the target.

Use the mouse to draw the detection area, users can draw serval areas depending on the real condition.

----End

7.3.6 Alarm In

This function requires access to a camera that supports external alarm in.

There are two types alarm in, one is the NVR's alarm in, another is the camera channel's alarm in.

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 7-54.

	8**		
🗙 System	Channel Record Al	Jarm Network System	×
⊳ General	Alarm In Camera Alarm I		
Motion Detection	Alarm In		
	Enable Alarm In	•	
Advanced Intelligent Analy.	Normal State	N/0 🗸	
▹ Intelligent Analysis	PortName	Sensor 1	
Abnormal Alarm	Evant Actions	Schedule	
⊳ Alarm Out	Pushmessage to APP	()	
▶ ADAM			
Local Intelligent Analysis			
D Local intelligent Analysis		٦	
	Enable Alarm Out		
		٢	
	Enable Event Recording		
			pply

Figure 7-54 Alarm in screen

Figure 7-55 Camera alarm in

🛪 System	Channel Record Alarm	Network System	×
⊳ General	Alarm In Camera Alarm In		
 Motion Detection Video Loss Advanced Intelligent Analy. Intelligent Analysis Alarm h 	Channel Alarm in Normal State Enable Alarm in Chip Event Actions.	[1]Channel01 1 N/O	
 Abnormal Alarm Alarm Out ADAM Local Intelligent Analysis 	Email Buzzer FTP PTZ Full Screen Enable Alerm Out Enable Remote IO Enable Event Recording		Αρρίγ

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.

NC: Normal close the alarm

NO: Normal open the alarm

Step 4 Set name.

- Step 5 Enable the event actions include: push message to App, pop up message to monitor, send Email, buzzer, FTP, PTZ, full screen, alarm out, camera alarm out, enable remote IO, event recording and so on.
- Step 6 Click **Schedule** page to access the schedule screen. For details, please see 7.2.1 Record Schedule Figure 7-23Step 5 Set the record schedule.

Step 7 Click Apply to save settings of Alarm in.

7.3.7 Abnormal Alarm

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

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 7-56.

🛪 System	Channel Record Alarm	Network System	×
⊳ General	Abnormal Alarm		
 > Motion Detection > Video Loss > Advanced Intelligent Analy. > Intelligent Analysis 	Enable Abnormal Alarm Abnormal Type		
▶ Alarm In			
 > Abnormal Alarm > Alarm Out > ADAM > Local Intelligent Analysis 	Pushmessage to APP Popup message to monitor Email Bu <i>rzen</i> Enable Alarm Out Enable Remote IO	3 5 6 9	

Figure 7-56 Abnormal alarm screen

Step 2 Tick the abnormal actions.

Step 3 Enable the event actions include: push message to App, pop up message to monitor, send

Email, buzzer, alarm out, enable remote IO and so on.

Step 4 Click Apply to save abnormal alarm settings.

7.3.8 Alarm Out

7.3.8.1 Alarm Out

Choose one output ID as the output interface.

Figure 7-57 Alarm out

🛪 System	Channel Record Alarm	Network System	×
⊳ General	Alarm Out Camera Alarm Out		
Motion Detection	Port Number		
▷ Video Loss	Port Name		
▷ Intelligent Analysis	Valid Signal	Close	
⊳ Alarm In	Alarm Output Mode	Switch Mode	
Abnormal Alarm	Alarm Output Mode	SWITCHINDLE	
Local Intelligent Analysis			
			Apply

----End

7.3.8.2 Camera Alarm out

This function requires access to a camera that connected to an external alarm out device.

	8		
🛠 System	Channel Record Alarm	Network System	×
▶ General	Alarm Out Camera Alarm Out		
Motion Detection	Channel	[1]Channel01	
▷ Video Loss	Port Number		
Intelligent Analysis	Port Name		
⊳ Alarm In	Valid Signal	Close	
Abnormal Alarm	Alarm Output Mode	Switch Mode	
	Alarm Time(ms)(0:Continuous)		
Local Intelligent Analysis			
			Apply
			.4423

Figure 7-58 Camera alarm out

Table 7-11 Camera alarm out

Parameter	Description	Setting
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: 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	When the device receives I/O alarm signals, it will send the alarm information to an external alarm device in the mode specified by this parameter. The options include the switch mode and pulse mode.	[Setting method] Select a value from the drop-down list box. [Default value] Switch Mode
	NOTE 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.	
Alarm Time(ms) (0: Continuous)	Alarm output duration. The value 0 indicates that the alarm remains continuous valid.	[Setting method] Enter a value manually. [Default value] 0 [Value range] 0 to 86400 seconds
Manual Control	Control the alarm output.	N/A

----End

7.3.9 ADAM (Only for Some Models)

By adding some ADAM data acquisition modules which is in the same network segment as NVR, ADAM outputs alarm information remotely. The output terminal of ADAM terminal shall be connected to relevant alarms in advanced, such as alarm lights or alarms.

NVR related alarm management starts remote ID (remote ID refers to the number of ADAM data acquisition modules that can be accessed, and the maximum number of channels that can be accessed is consistent with NVR channels), and the port number is that the alarm device accesses to the ADAM data acquisition modules.

General ADAM Motion Detection Video Loss			Address M	AC Address			
C			ddress M	6C Address			
Video Loss E	Do						
		1 192.	68.8.156 00	0d0c9feffff	0 0	6 6	
Advanced Intelligent Analy.							
Intelligent Analysis							
Alarm In							
Abnormal Alarm							
Alarm Out						Delete	
	1e Device					Delete	
Local Intelligent Analysis		Stop Sea					
						Operate	

Figure 7-59 ADAM

Click Search to search the on-line ADAM.

Tick the ID of the searched ADAM, click Add to add to list. The status is showing on the list.

The ID is corresponding to the remote channel number of the remote IO.

The alarm device is accessed to ADAM ID is corresponded with the port number.

7.3.10 Local Intelligent Analysis (Only for Some Models)

7.3.10.1 General

At "Alarm > Local Intelligent Analysis > General" interface, enable the local intelligent analysis to set the local intrusion, as shown in Figure 7-60.

🛠 System	Channel Record Al	arm Network System	×
⊳ General	General Intrusion		
▷ Motion Detection ▷ Video Loss	Enable		
 Intelligent Analysis 	Enable Draw Rect Mode	● Detection mode	
⊳ Alarm In ⊳ Abnormal Alarm	Channel	1 2 3 4 5 6 7 8	
⊳ Alarm Out			
			Apply

Figure 7-60 Local intelligent analysis - General

Enable the alarm function.

Enable Draw Rectangle, the detection rectangle will be shown on the live video of intrusion.

Choose the channels, support up to 4 channels.

Enable or disable the intrusion, modify the channels, click the "Apply" and the device will be rebooted.

7.3.10.2 Intrusion

At "Alarm > Local Intelligent Analysis > Intrusion" interface to set the parameter of local intrusion.

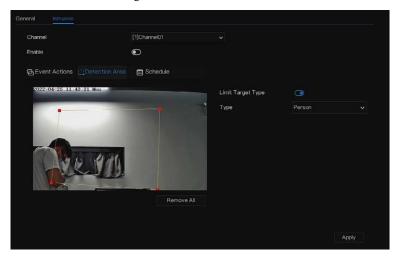
The "Intrusion" refers to that an alarm is generated when the targets of specified types (such as person, car, and both person and car) enter the detection area.

🛠 System	Channel Record Alarm Ne	twork System	×
⊳ General	General Intrusion		
 > Motion Detection > Video Loss > Advanced Intelligent Analy. > Intelligent Analysis 	Channel Enable	(1)Channe01 v	
 > Alarm In > Abnormal Alarm > Alarm Out > ADAM 	Push message to APP Pop up message to monitor Email Buzzer FTP		
	PTZ Full Scroen Enable Alarm Out Enable Cemera Alarm Out Enable Remote IO Enable Event Recording		
		Αηρίγ	

Figure 7-61 Intrusion

Event action:

Choose the channel to enable the intrusion, enable the event actions (such as push message to App, Pop up message to monitor, Email, Buzzer, FTP, PTZ, Full screen, Alarm out, Camera alarm out, enable remote IO, Event recording, and so on). Click "Apply" to save the settings. Figure 7-62 Detection area



Detection area:

Move the cursor to the drawing interface and click to generate a point, move the cursor to draw a

line, and then click to generate another point. This is how a line is generated. In this way,

continue to draw lines to form any shape, and right-click to finish line drawing.



A drawn line cannot cross another one, or the line drawing fails.

Any shape with 8 sides at most can be drawn.

The quantity of detection areas is not limited yet and will be described in future when a limit is applied.

Choose Limit target from the drop-down list, person/person or car/car.

Channel [1]Channel01 Ensitie Image: Channel Control of Contro	General		Intrusion														
Event Actions CDetection Area CD Scheckle All 2 4 6 8 10 12 14 16 18 20 22 24 Sun 5 6 8 10 12 14 16 18 20 22 24 Sun 5 7 7 16 18 20 22 24 Sun 5 7 7 10 5 7 10 10 7 10	Chann	iel					[1]Channe	el01									
Al \$ 2 4 6 8 10 12 14 16 18 20 22 24 Sun \$ Mon \$ Tue \$ Wed \$ Thu \$	Enable					(D										
Sun S Mon S Tue S Wed S Thu S Fri S	ФEv	ent	Actions	[]]Dete	ction A												
Sun S Mon S Tue S Wed S Thu S Fri S		+					10	-10	-14	16	10		94				
								142		Ň		20	 24				
Wed \$ The second seco																	
Thu S manufacture and a second	Tue	11															
Fri 💲 ERENANDEREN EREN EREN EREN EREN EREN EREN ERE	Wed	44															
	Thu	44															
	Sat	11															
															Ac	volv	
Apply																	

Figure 7-63 Set schedule

Set schedule:

Method 1: Click left mouse button to select any time point within 0:00-24:00 from Monday to Sunday as shown in Figure 7-63.

Method 2: Hold down the left mouse button, drag and release mouse to select the schedule within 0:00 -24:00 from Monday to Sunday.

When you select time by dragging the cursor, the cursor cannot be moved out of the time area. Otherwise, no time can be selected. Method 3: Click Sin the schedule page to select the whole day or whole week. Deleting schedule: Click Sin again or inverse selection to delete the selected schedule. ----End

7.4 Network Management

Set the Network Parameter, 802.1X, DDNS, E-mail, Port Mapping, P2P, IP Filter, SNMP 3G/4G and PPPOE, Network Traffic 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 7-64. Figure 7-64 Network management screen

🛪 System	Channel Record Alarm	Network System	×
	P Port POE		
⊳ 802.1X	DHCP	©	
▷ DDNS	IP Address		
▷ Port Mapping	Subnet Mask	255 . 255 . 0 . 0	
▶ Email	Default Gateway	192 . 168 . 0 . 1	
⊳ P2P	Obtain DNS Automatically		
⊳ IP Filter	Preferred DNS Server		
⊳ SNMP	Alternate DNS Server		
⊳ 3G/4G	Alternate DNS Server		
▶ PPPOE			
▷ POE Status			
Network Traffic			
▷ Platform Access			
			Apply

7.4.1 Network

Set DHCP and DNS manually or automatically.

7.4.1.1 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 original address, and enter a new address.

Step 5 Click Apply to save IP settings.

7.4.1.2 Port

Operation Steps

Step 1 Click Port page to access the port setting screen, as shown in Figure 7-65.

🗙 System	Channel Record Ala	m Network System	×
	IP Port POE		
⊳ 802.1X	HTTP Port		
▷ DDNS	HTTPS Part	443	
▷ Port Mapping	RTSP Port	554	
⊳ Email	Control Port	30001	
⊳ P2P			
▷ IP Filter			
⊳ SNMP			
⊳ 3G/4G			
▶ PPPOE			
 ▷ POE Status ▷ Network Traffic 			
 Platform Access 			
			Apply

Figure 7-65 Port setting screen

Step 2 Set the HTTP port, HTTPS port, RTSP port and Control port.

Step 3 Click Apply to save port settings.

7.4.1.3 IPv4CCTV (Only for Some Models)

The no POE device has two LANs, LAN1 and LAN2.

Operation Steps

Step 1 Click Ipv4 CCTV page to access the LAN2 setting screen, as shown in Figure 7-66.

X System	Channel Record Alarm Network System	Х
▶ Network	P Port PV4CCTV	
⊳ 802.1X	P Address 192 . 108 . 10 . 253	
▷ DDNS	Subnet Mask 255 . 255 . 0	
▶ Email	Default Gateway 192 - 166 - 10 - 254	
▷ Port Mapping		
⊳ P2P		
⊳ P Filter		
⊳ SNMP		
⊳ 3G/4G		
▷ PPPOE		
k	Ap	xply

Figure 7-66 IPv4 CCTV

Step 2 Input the IP address, subnet mask, default gateway.

Step 3 Click Apply to save the settings.

LAN1 and LAN2 can be connected to different network, so that NVR can add more cameras. LAN1 usually is connected to the external network, it is default gateway. LAN2 connect to internal network.

----End

7.4.1.4 POE (Only for Some Models)

Operation Steps

Step 1 Click POE page to access the POE setting screen, as shown in Figure 7-67.

	1 igure	7-07 I OE selecti	
🛪 System	Channel Record Alarm	Network System	×
► Network	IP Port <u>POE</u>		
⊳ 802.1X	Auto Manage For PoE Camera	@	
▷ DDNS	IP Address		
▷ Port Mapping	Subnet Mask		
⊳ Email	Default Gateway	169 . 254 . 10 . 1	
⊳ P2P			
▷ IP Filter ▷ SNMP			
⊳ SNWP			
▷ PPPOE			
▷ POE Status			
Network Traffic			
▷ Platform Access			
			Apply

Figure 7-67 POE screen

Step 2 The NVR will deploy IP addresses to the cameras connected to POE immediately.

Step 3 Click Apply to set POE camera IP address successfully.

7.4.1.5 WiFi Parameter (Only for Some Models)

Operation Steps

Step 1 Click **WiFi Parameter** page to access the WiFi Parameter setting screen, as shown in Figure 7-67.

A Catting		-68 W1F1 Parame	.el	x
🗙 Setting	Channel Record Alarm	Network System		^
		00:1C:28:1A:01:66		
⊳ UPnP	Wireless channel			

Figure 7 68 WiFi Decemeter

Step 2 Set the parameters of WiFi $_{\circ}$

Step 3 Click Apply to set POE camera IP address successfully.

BSDID, default value of the device, cannot be changed.

SSID, the name can be changed to facilitate customer search.

WiFi channel; 1-13 channels, plus the other channel, can be changed according to network blocking conditions to avoid interference.

The area can be selected according to the country where it is located, MKK, ETSI1, ETSI2, FCC.

----End

7.4.1.6 WiFi Network (Only for Some Models)

Operation Steps

```
Step 1 Click WiFi Parameter page to access the WiFi Parameter setting screen, as shown in Figure 7-67.
```

X Setting	Channel Record Alarm	Network System	
	IP Address	192.168.100.121	
	Subnet Mask		
	Gateway	192.168.100.1	

Figure 7-69 WiFi network

----End

7.4.2 802.1 X

Operation Steps

Step 1 Click next to 802.1 X to enable or disable the function .The default is disabled.

🛠 System	Channel Record Alarm	Network System	×
▶ Network			
	Enable 802.1X	٦	
▷ DDNS	User	Usemame	
▷ Port Mapping			
⊳ Email	Password		
▶ P2P			
⊳ IP Filter			
⊳ SNMP			
⊳ 3G/4G			
▷ PPPOE			
▷ POE Status			
Network Traffic			
▷ Platform Access			
			Apply

Figure 7-70 802.1 X

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

Step 3 Click Apply to save the settings. The visitor to view the NVR need to input account to certify.

----End

7.4.3 DDNS

Please make sure connect the specified camera 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 7-71.

X System Channel Record Alarm Network System	×
Network DDNs:	
> 802.1X Enable DDNS	
► DDNS Protocol no_ip ✓	
Port Mapping Domain Name dvr.ddhs.net	
▹ Email User Username	
> P2P	
b IP Filter	
> SNMP	
⊳ 3G/4G	
▶ PPPOE	
▷ POE Status	
> Network Traffic	
> Platform Access	
	Apply

Figure 7-71 DDNS setting screen

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

Step 4 Set domain name, input user and password.

Step 5 Click Test to check the domain name.

Step 6 Click Apply to save DDNS network settings

An external network can access the NVR via an address that is set in the DDNS settings.

----End

7.4.4 Port Mapping

7.4.4.1 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 7-72.

🛠 System	Channel Record Alarm	Network System	
▷ Network	Port Mapping NAT Port		
⊳ 802.1X	Enable Port Mapping	٢	
▶ DDNS	Mode	Auto	
	HTTP Port		
⊳ Email	HTTPS Part		
⊳ P2P	RTSP Port		
⊳ IP Filter	Control Port		
⊳ SNMP	Port range [1025-65534]		
⊳ 3G/4G			
▷ PPPOE			
▷ POE Status			
▷ Network Traffic			
▷ Platform Access			

Figure 7-72 Port mapping setting screen

Step 2 Select UPnP enable type.

Step 3 Manual UPnP: input http port, data port and client port manually.

Step 4 Auto UPnP: device obtain the port automatically.

Step 5 Click Apply to save settings.

7.4.4.2 NAT Port

NAT Port (Network Address Translation). Access the NVR channels through the NAT port. Users can set the start port, and it will generate the end port automatically. We will view the NAT port

when we access the channel through clicking $\angle \mathcal{C}^{\cdots}$ icon at Web interface.

	Figu	re 7-73 N	IAT port	
ecord	Alarm		System	

🛠 System	Channel Record Alarm	Network System	×
▶ Network	Port Mapping NAT Port		
⊳ 802.1X	Start Port	40001	
▷ DDNS	End Port		
⊳ Email	Port range [40001-65534]		
▷ P2P			
▷ IP Filter			
⊳ SNMP			
⊳ 3G/4G			
▷ PPPOE			
▷ POE Status			
Network Traffic			
▷ Platform Access			
			Apply

----End

7.4.5 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. Two mailboxes can be set as receivers.

Operation Steps

Step 1 Click E-mail in the main menu or menu of the network management screen and choose E-mail to access the E-mail screen, as shown in Figure 7-74.

🛠 System	Channel Record Alarm	Network System		×
▶ Network	Email Server 1 Email Server 2			
⊳ 802.1X	SMTP Server			
▶ DDNS	SMTP Server Port			
▷ Port Mapping	Username			
	Password			
⊳ P2P	Email Sender			
⊳ IP Filter	Alarm Receiver 1			
⊳ SNMP	Alarm Receiver 2			
⊳ 3G/4G	Alarm Receiver 3			
▷ PPPOE	SSL Encryption	OFF		
▷ POE Status	Sending interval(0-600s)			
Network Traffic		Test		
Platform Access				
			Apply	

Figure 7-74 E-mail setting screen

Figure 7-75 E –mail server 2

I Server 1 Email Server 2		
SMTP Server		
SMTP Server Port		
Jsemame		
Password		
Email Sender		
Alarm Receiver 1		
Alarm Receiver 2		
Alarm Receiver 3		
SSL Encryption		
Sending interval(0–600s)		
	Test	

Step 2 Set SMTP server address and SMTP server port manually.

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

- Step 4 Set E-mail for receiving 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 retrieve the password. the message "Mail has been sent, please check" is displaying. Open the mail, if the verification code is received, E-mail is set successfully.

Step 6 Set SSL encryption for encrypting mail or not, set sending interval.

Step 7 Click Apply to save settings. ----End

7.4.6 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 7-76. Figure 7-76 P2P screen

🛠 System	Channel Record Ala	rm Network System	×
Network	P2P		
⊳ 802.1X	Enable P2P	0	
▷ DDNS	Status	Offine	
▷ Port Mapping	P2P ID	B011003AFEK 109U62	
⊳ Email			
▷ IP Filter			
⊳ SNMP			
	App Name	InView Pro 4	
▷ PPPOE	- It is available on App Store	e and Google Play.	
▷ POE Status			
▷ Network Traffic			
▷ Platform Access			
			Apply

Step 2 Click to enable the P2P function.

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

Step 4 After the Inview Pro4 is installed in mobile phone, run the APP and scan the QR to add

and access the NVR when the device is online.

----End

7.4.7 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 7-77. Figure 7-77 IP Filter setting screen

🛪 System	Channel Record Alarm Network System	×
⊳ Network		
⊳ 802.1X	Enable P Filter 3	
▷ DDNS	Rule Type Black List	
▷ Port Mapping	Black List(Following network segments are forbidden)	
▶ Email	D Start P End P Edit	
⊳ P2P		
⊳ SNMP		
⊳ 3G/4G		
▷ PPPOE		
▷ POE Status		
Network Traffic		
▷ Platform Access		
	+ -	
	Apply	

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 IP segment screen is displaying, as show in Figure 7-

Figure 7-78 IP Address Segment screen

	ок

Step 5 Enter value manually for start IP address, end IP address.

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

🛄 ΝΟΤΕ

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

White list: a list of addresses in specified network segment 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

7.4.8 SNMP

There are three versions of simple network management protocols 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 7-79.

	8	8	
🗙 System	Channel Record Alarm	Network System	×
▶ Network	SNMPv1/2 SNMPV3		
⊳ 802.1X	SNMPV1	•	
⇒ DDNS	SNMPV2C	٢	
▷ Port Mapping	Write Community		
⊳ Email	Read Community		
⊳ P2P	Trap Address		
⊳ IP Filter	Trap Port		
	Trap Community		
⊳ 3G/4G			
▷ PPPOE			
▷ POE Status			
Network Traffic			
▷ Platform Access			
			Apply

Figure 7-79 SNMP settings screen

Step 2 Click next to **SNMPV 1** to enable the function . The interface is shown as Figure 7-80.

Figure 7-80 SNMPV 1/2 interface

	SNMPV3		
SNMPV1			
SNMPV2C		۲	
Write Comm	unity		
Read Comm	unity		
Trap Addres			
Trap Port			
Trap Commu	inity		

Step 3 Input the parameters of protocol.

Step 4 Click	Apply	to save settings	or click	Cancel	to cancel settings	3.
End						

7.4.9 3G/4G

Users can connect NVR to the data network using a modem.

Operation Steps

Step 1 Plug the modem to NVR, and enable the 3G/4G function, as shown in Figure 7-81.

Figure 7-81 3G/4G setting screen

🗙 System	Channel Record Alarm	Network System	×
▶ Network	3G/4G		
⊳ 802.1X	Enable 3G/4G	\odot	
▷ DDNS	Status	Disconnected	
▷ Port Mapping	Access Mode		
⊳ Email	APN		
⊳ P2P	Dial Number		
⊳ IP Filter	Username		
⊳ SNMP	Password		
	IP Address		
▷ PPPOE			
▷ POE Status			
 Network Traffic Platform Access 			
P FIBLIUTITI ACCESS			
			Apply

Step 2 If the connection is successful, 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.

Modify the access mode of 3G/4G (AUTO, LTE, TD-SCDMA, WCDMA, GSM/GPRS). If you cannot dial within 5 minutes, re-plug the modem.

Users are familiar with the relevant network (different service provider parameters are different) and modem information before manually switching to other modes, the recommended mode is **Auto**. 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

7.4.10 PPPOE

PPPOE point to point protocol Ethernet, user use the PPPOE to access network immediately, as shown in Figure 7-82.

Figure 7-82	PPPOE
-------------	-------

🗙 System	Channel Record	larm Network System	×
▶ Network	PPPOE		
⊳ 802.1X	Enable PPPoE	٢	
▷ DDNS	Username		
Port Mapping	Password		
⊳ Email	IP Address		
⊳ P2P			
▷ IP Filter			
⊳ SNMP			
⊳ 3G/4G			
▷ POE Status			
▷ Network Traffic			
Platform Access			
			Apply

Step 1 Enable the PPPOE function.

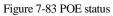
Step 2 Input the username, password (provided by network operator).

Step 3 Click Apply to save settings, and the IP is obtained automatically. Step 4 Users input the IP to access NVR web immediately.

----End

7.4.11 POE Status (Only for Some Models)

Users can view the status of POE intuitively, as shown in Figure 7-83.





----End

7.4.12 Network Traffic

Users can view the network traffic immediately, as shown in Figure 7-84

🛪 System	Channel Record	Alarm Network	System		×
▶ Network					
⊳ 802.1X					
▷ DDNS	16Mbps				
▷ Port Mapping					
⊳ Email					
⊳ P2P	8Mbps				
⊳ IP Filter	Омыра				
⊳ SNMP					
⊳ 3G/4G					
▶ PPPOE	0				
▷ POE Status	LANI		Hadave Hata : 12		
Platform Access		Status	MAC Address	MTU Display	
	LANI	Online	00:1C:27:16F5:7A	1500 💌	

Figure 7-84 Network traffic

There are two rates, transmit rate and receive rate. The status of LAN(s) show on list.

----End

7.4.13 Platform Access

If the NVR and platform system are not at the same local network, ensure the NVR is connected to the same external server as the platform system. You should build a server for platform in advanced, platform's remote IP/Port and NVR are mapping port to external network.

Step 1 Choose Configuration > Network Service > Platform Access.

The Platform Access page is displayed, as shown in Figure 7-85

🗙 System	Channel Record Alarm	Network System	×
▶ Network	Platform Access		
⊳ 802.1X	Enable	(0)	
▷ DDNS	URL		
▷ Port Mapping	Port		
⊳ Email	User		
▶ P2P	Password		
⊳ IP Filter	Encrypt		
⊳ SNMP	Circl ypr		
⊳ 3G/4G			
▷ PPPOE			
▷ Network Traffic			
► Platform Access			
			Apply

Figure 7-85 Platform Access page

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

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

Step 4 Add the NVR to platform, you should input the following information.

1: IP/ID/Domain name is Device ID of NVR.

🛠 System	Channel	Record	Alarm	Network	System
	System	Network	Channel	Disk	Alarm
⊳ General	Device			B0110	03AFEK109U62
> User Account	Device	Name		Devic	e
Security Center	Device	Туре		NVR	
▹ Layout > Auxiliary Screen	Model			NVR3	808E2-P8E-J
⊳ Logs	Firmwa	re Version		v4.6.1	604.0000.003.0.1.3
 > Logs > Maintenance > Auto Roboot 		t Version			10C0F18
	Kernel Version HDD Number				511183A
		umber els Supported		2	
	Alarm li			8	
	Alarm (
	Audio I				
	Audio (Dut			

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

+ AddDevice					
Device Name					
Device Type	NVR -				
Protocol	Private Protocol 👻				
IP/ID/ domain name					
Port	30001				
Group	Default group 👻				
Connection mode	Device active registration 🔹				
IAU	Not configured 🔹				
MDU	Auto 👻				
Save and New	Test Add Can	icel			

Figure 7-87 Connect NVR to platform

3: the CMU, MDU and IAU servers of platform should be mapped to the ports to external network in advanced.

Figure 7-88 URL address / port

Basic Inform	nation			ନ Refresh 🗯 Back 🙄 Restore 🗹 Edit 🗙 Delete
Server Name :			127.0.0.1 : 10086	Start-up Time : 2022-04-11 15:15:51
Running State :		Remote IP:Port :		Online Time : 4Hrs 15Min 56Sec
Log Type :		Device registration port :	17888	SSL port : 15680
Domain :	Default Domain	Remote device registration 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

7.5 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 7-89.

🛠 System	Channel	Record	Alarm	Network	System	×
▶ Information	System	Network	Channel	Disk	Abrm	
 > General > User Account > Security Center > Layout 	Device Device Device Model	Name		Devic NVR	33AFEK109U62 9 30862-P8E-J	
 > Auxiliary Screen > Logs > Maintenance 	U-boo	are Version t Version Version		15040	504.0000.003.0.196.0 100.00F18 511183A	
> Auto Reboot	HDD N Channe Alarm I Alarm (Audio I	als Supported n Dut				
	Audio (Dut				

Figure 7-89 System setting screen

7.5.1 Information

View the device ID, device name, device type, model, firmware version, kernel version, face detection version, HDD volume, channel support, alarm in, and alarm out, audio in, audio out in **information** screen, as shown in Figure 7-90.

System Network Channel	Disk Alarm
Device ID	B011003AFEK109U62
Device Name	Device
Device Type	NVR
Model	NVR3808E2-P8E-J
Firmware Version	v4.6.1604.0000.003.0.1.36.0
U-boot Version	1504010C0F18
Kernel Version	15060511183A
HDD Number	
Channels Supported	
Alarm In	
Alarm Out	
Audio In	
Audio Out	

Figure 7-90 Information-system interface

Network: status, IP address, subnet mask, default gateway, MAC address, DHCP, preferred DNS server, Alternate DNS server, total band width, received packets, and so on, as shown in Figure 7-91.

System	Network	Channel	Disk	Alarm
Status			Onli	line
IP Addre	ss		192	2.168.32.149
Subnet	Mask			5.255.0.0
Default (Sateway		192	2.168.0.1
MAC Ad	dress		00:	:1C:27:16:F5:7A
DHCP			OF	
Preferre	ed DNS Server		192	2.168.32.254
Alternat	e DNS Server			
Total Ba	ndwidth		100	00.00 Mbps
Receive	d Packets			53 Mbps

Figure 7-91 Information-network interface

Channel: channel, name, status, video format, resolution, bitrate (kbps), and so on, as shown in Figure 7-92.

.

Figure 7-92 Information-channel interface

System	Notwork	Channel Disk	Alarm		
			H,265/H265	1920*1080/704*576	4096/1024
				1920*1080/704*480	

Disk: disk name, capacity, used, SN, disk model, status, and so on, as shown in Figure 7-93

Figure 7-93 Information-	disk interface
--------------------------	----------------

	Network Channel	Dirik Alarm			
	Capacity				
Disk1			5QJBVD9B	WDC WD121EJRP-89B.	Normal
			Z6A0RABD	ST3000VX010-2E3166	

Alarm: channel, name, mode, enable, recording channel, and so on, as shown in Figure 7-94.

System	Network	Channel	Disk Alarm		
Cha			Mode	Enable	Recording Channel
	ık-1	Sensor 1			
Loca		Sensor 2			
Loca		Sensor 3			
Loca		Sensor 4			
Loca	1 ->1		Close		

Figure 7-94 Information-alarm interface

----End

7.5.2 General

7.5.2.1 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 7-95.

🛠 System	Channel Record Alarm	Network System		x
▹ Information	System Date And Time Tir	na Zone DST Sync (Camera Time	
> General	Device Name	Device		
▶ User Account	Output Resolution	1920x1080		
Security Center	Language	English		
⊳ Layout	Temperature Unit	Celsius		
⊳ Logs				
> Maintenance				
⊳ Auto Reboot				
				Apply

Figure 7-95 system setting screen

Step 2 Enter the name of the 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 Set the temperature unit.

Step 6 Click Apply to save settings.

7.5.2.2 Date and Time

Operation Steps

Step 1 Click **Date and Time** page to access the date and time setting screen, as shown in Figure 7-96.

🛠 System	Channel Record Alarm	Network System	×
> Information	System Date And Time Tin	ne Zone DST Sync Came	sra Time
► General	Date Format	DD/MM/YY hh:mm:ss	
▶ User Account	Time Format		
Security Center	Enable NTP	0	
⊳ Layout	NTP Server	time.windows.com	
	Sync Time Frequency (sec)	86400	
▶ Logs	Date		
▶ Maintenance	Time		
▹ Auto Reboot			
	- Time modification will cause the	channel to reconnect	
	- Time modification will affect vide	oo query	
			Apply

Figure 7-96 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

7.5.2.3 Time Zone

Operation Steps

Step 1 Click Time zone page to access the time zone setting screen, as shown in Figure 7-97.

Ceneral Time Zone (GMT+00:00) Dublin, Editburgh, Lo. b User Account b User Account b Layout b Layout b Logs Maintenance	🗙 System	Channel	Record	Alarm	Network	c Sys	tem
> User Account > Security Center > Lagout > Logs > Maintonance	▶ Information	System	Date And	Time	Time Zone	DST	Sync Camera Time
 > Security Center > Layout > Logs > Maintenance 		Time 2	Zone		(GN	/T+00:00) D	ublin, Edinburgh, L.o. 🗸
> Layout > Logs > Maintenance	▹ User Account						
> Logs > Maintenance	▹ Security Center						
⊳ Maintenance	⊳ Layout						
> Auto Reboot	▶ Maintenance						
	⊳ Auto Reboot						

Figure 7-97 Time zone setting screen

Step 2 Select a required time zone from the Time Zone drop-down list.

Step 3 Click Apply to save settings. ----End

7.5.2.4 DST

When the DST start time arrives, the device time automatically goes forward one hour (offset time). When the DST end time arrives, the device time automatically goes backward one hour. The offset time can change if the local rule is different.

Operation Steps

Step 1 Click DST page to access the DST setting screen, as shown in Figure 7-98.

🛠 System	Channel Record Alarm	n Network					X
Information	System Date And Time	Time Zone	DST	Sync Car	nera Time		
	Enable Daylight Saving Time			0			
⊳ User Account	Start Time	Mar v I	Lastone 🗸	Sun			
Security Center	End Time		Last one 🗸	Sun			
⊳ Layout	Offset Time						
> Maintenance							
Auto Reboot							
						Appi	

Figure 7-98 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 basis on

the local rules.

Step 4 Click Apply to save settings.

----End

7.5.2.5 Sync Camera Time

Enable the sync camera time, the channels will show the sync time, and set the frequency of check

System	Date And Time	Time Zon	DST	Sync Camera Tim	
Enable	Sync		۲		
Sync T	ime Frequency (sec)		3600		
					Apply

----End

7.5.3 User Account

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

7.5.3.1 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 7-99.

🛠 System	Channel F	ecord Alarm Netw	vork System		×
▶ Information	User Adv	Setting App Verificatio			
▷ General		Username	Group	Operate	
		admin	Super admin	<u> </u>	
▷ Security Center					
▶ Layout					
▷ Auxiliary Screen					
⊳ Logs					
▷ Maintenance					
⊳ Auto Reboot					
				Add	

Figure 7-99 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 7-100. Figure 7-100 Add user screen

Password		
Confirm Password		
	Administrators	
Change Password Frequency	Never	
Password Expire Date	۲	
🖬 Live Preview	Chann	
PTZ	CH1	
	CH2	
🛃 Playback	CH3	
Channel Management	CH4	
	CH5	
Z Device Management	CH6	
🛃 System Management	CH7	
🛃 Backup		
	Live Preview	

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

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

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 Enable the expire date to set the new user's authority time.
- Step 6 Select the operation privileges and channels in the list of the add user screen.
- Step 7 Click OK . The user is set successfully.

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

7.5.3.2 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 7-101.

	rigate / 1011	avallee setting sereen		
🗙 System	Channel Record Alarm	Network System		×
▶ Information	User Adv.Setting App Verifi	ication		
⊳ General	Enable Double Authentication			
	Enable Setup Wizard	0		
Security Center	Enable Auto Login			
▶ Layout	- Auto Logout Time (min)			
➢ Auxiliary Screen	Monitor channel(s) when logout	1 2 3 4 5 6 7 8		
⊳ Logs				
⊳ Maintenance				
⊳ Auto Reboot				
			Apply	

Figure 7-101 Advance setting screen

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

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

Step 4 Click Apply to save settings. -----End

7.5.3.3 App Verification

Add the digital number to whitelist, When log in to the mobile app to manage the NVR, enter a series of numbers in the whitelist for testing and verifying to ensure security.

🛠 System	Channel Record Alarm Network System	X
> Information	User Adv.Setting Phone Number Allowed	
⊳ General	Enable White List	
	Phone Number Status Remark Edit	
Security Center		
⊳ Layout		
⊳ Logs	Phone Number	
⊳ Maintenance	Remark(optional)	
⊳ Auto Reboot		
	Cancel	
	+ -	
		Apply

Figure 7-102 App verification

Up to 20 groups of security codes can be added and notes can be modified for them. Tick the numbers, click "-" to delete the numbers.

Click Apply to save the setting.

7.5.4 Security Center

7.5.4.1 Password

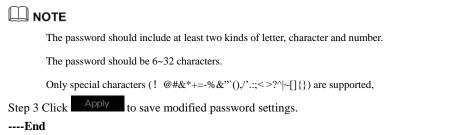
Operation Steps

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 7-103.

22.0	2			
🗙 System	Channel Record Alarm N	etwork System		×
▶ Information	Password Pattern Unlock Sec	ure Email Secure Question		
⊳ General	Old Password			
▷ User Account	New Password			
	Confirm Password			
⊳ Layout	Commeassword			
Auxiliary Screen	– Valid password range [6–32] charact	ers.		
⊳ Logs	- At least 2 kinds of numbers, lowercas	e,uppercase or special character contai	ined.	
⊳ Maintenance	- Only these special characters are su	oported !@#\$*+~=_%&'''(),/'.:;<>?^ -[]{}		
⊳ Auto Reboot				
			1	
			Apply	

Figure 7-103 Password modification screen

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



7.5.4.2 Pattern Unlock

Operation Steps

Step 1 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 7-104.

	-		
🛪 System	Channel Record Alarm N	letwork System	×
▶ Information	Password Pattern Unlock Sec	ure Email Secure Question	
⊳ General	Password		
▷ User Account	Enable Pattern Unlock		
▹ Layout	Pattern Unlock	Pattern Setting	
Auxiliary Screen			
⊳ Logs			
⊳ Maintenance			
▹ Auto Reboot			
			Apply

Figure 7-104 Pattern unlock screen

Step 2 Input the password, enable pattern unlock.

Step 3 Click Setting Pattern to set an new pattern unlock.

Step 4 Draw the pattern, then it will remind to draw the confirmation pattern again.

Step 5 Click to save the pattern unlock.

7.5.4.3 Secure Email

Set the email to receive the verification code to create new password, as shown in Figure 7-105.

🛠 System	Channel Record Alarm Netwo	vork System	×
▷ Information	Password Pattern Unlock Secure E	Email Secure Question	
⊳ General	Verify Password		
▷ User Account	Email Address		
▶ Layout			
▷ Auxiliary Screen			
⊳ Logs			
▷ Maintenance			
Auto Reboot			
		Apply	

Figure 7-105 Secure Email

Step 1 Input the password of NVR.

Step 2 Set the Email address to receive verification code.

Step 3 Click Apply to save setting.

----End

7.5.4.4 Secure Question

Set the questions to create new password, as shown in Figure 7-105.

🛠 System	Channel Record Alarm Network System	>
Information	Password Pattern Unlock Secure Email Secure Question	
⊳ General	Password Password	
> User Account	Question one The brand and model of your fa	avorix
	Question one answer	
▶ Layout	Question two Your favorite team	
Auxiliary Screen	Question two answer	
⊳ Logs	Question three Your favorite city	
⊳ Maintenance	Question three answer	
Auto Reboot	- Please enter at least 1 characters for the answer	
	- Please enter up to 32 characters for the answer	
		Αρρίγ

Figure 7-106 Secure question

Step 1 Input the password of NVR.

Step 2 Choose the question from drop-down list.

Step 3 Input the answer, click to save setting. ----End

7.5.5 Layout

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

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 7-107.

🛪 System	Channel Record Alarm Network System	×
▷ Information	Layout	
⊳ General	Layout List + Layout Name: 1x1 Dwell Time(sec): 5	∠ Edit @ Delete
▷ User Account		
Security Center		
▶ Layoul		
Auxiliary Screen		
⊳ Logs	1. Channel01	
⊳ Maintenance	2. Channel02 3. Channel03	
▷ Auto Reboot	4. Channel04 5. Channel05	
	6. Channel06 7. Channel07	
	7. Criamed 7 8. Channel08	

Figure 7-107 Auto Sequence screen

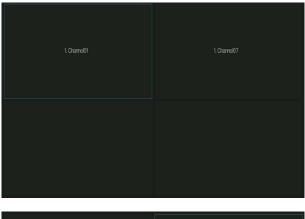
Step 2 Click "+" to add a new layout. The default layout is one splitting screen.

Figure 7-108 Add a new layout

+ Add Layout				×
Channel	Layout Name	Dwell Time(sec) 5		
[1]Channel01				
[2]Channel02				
[3]Channel03				
[4]Channel04				
[5]Channel05				
[6]Channel06				
[7]Channel07				
[8]Channel08				
[-]Empty				
				Cancel

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 Select split screen mode at the bottom of the page. Set the channel display by dragging the channel to specific position, or select the position first, then click the channel. A split screen can play multiple channels. Auto sequence means it will play according to the setting. 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 auto sequence is enabled, channel 1 and channel 3 are displayed, then channel 2 and channel 3 are displayed. Figure 7-109 Auto sequence



1.Cha	me02	1.Channe	07



Apply to save dwell settings.

🛄 ΝΟΤΕ

User can add up to 16 layouts.

----End

7.5.6 Auxliary Screen (Only for Some Models)

This function only can be used for the devices with 8 or more than channels. The main screen is connected by HDMI (HD-OUT 2), auxiliary screen is connected by VGA.

Operation Steps

Step 1 Click Auxiliary Screen in the main menu or menu of the system management screen.

Step 2 Enable the auxiliary screen, as shown in Figure 7-110

VGA Output Resolution 1020x/1080 Security Center Maximum Channel for HDM and VGA Layout Layout Mode Layout Mode 1x1 Display Page 1 Logs Envisie Auto Sequence Maintenance Turn en or off the auxiliary scream, the device will reboot.		Auxiliary Screen Layout		
VGA Output Resolution 1920x 1080 Security Center Maximum Channel for HDM and VGA Layout Layout Mode Layout Mode 1x1 Logs Enable Auto Sequence Mainterence Turn on or off the autilitary screen, the device will reboot.	General	Enable Auxiliary Screen		
Layout Layout Mode 1:4 Image: Comparison of the DM and VGA Layout Mode Image: Comparison of the surface	User Account	VGA Output Resolution	1920×1080	
Layout Layout Mode 1x1 Auxiliary Screen Display Page 1 Logs Enable Auto Sequence Maintenance Turn on coff the auxiliary screen, the device will reboot	Security Center	Maximum Channel for HDMI and VGA		
Auxiliary Screen Display Page Logs 1 Maintenance Enable Auto Sequence Turn on or off the auxiliary screen, the device will reboot	Layout	Lavout Mode		
Logs Enable Auto Sequence Maintenance Turn on or off the auxiliary screen, the device will reboot				
Maintenance Turn on or off the auxiliary screen, the device will reboot	Logs			
	Maintenance			
	Auto Reboot			

Figure 7-110 Auxiliary screen

Step 3 Set the Output Resolution, Decoding Ability(main + auxiliary), Layout Mode, Display Channel.

Step 4 Enable tour to set Auto Sequence of auxiliary screen as shown in.

Layout List	Layout Name: 1x1	Dwell Time(sec): 5		🗾 Edit 🍵 Delete
			1. Channal01 2. Channel02 3. Channel03 4. Channel05 6. Channel05 7. Channel07 8. Channel07	



Step 5 Click Apply to save settings.

The auxiliary screen shows different channels with main screen, and the auto sequence show all channels.

The auxiliary screen will show the personnel counting information if it is enabling.

----End

7.5.7 Logs

7.5.7.1 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 7-112.

Information	System Log Ex	rent Log				
⊳ General	Start Date	24/04/2022		Start Time	15:21:16	
> User Account	End Date	25/04/2022		End Time	15:21.16	
Security Center	Туре	Operation Log		Sear	ch Export	
▹ Layout			Channel	Log Type		
> Auxiliary Screen	1 25/0	4/2022 15:02:40		Login	[admin] 127.0.0.1 login	
Auxiliary ocroom		4/2022 15:02:00		Logout	[admin] 127.0.0.1 logout	
		4/2022 14:40:35		Login	[admin] 127.0.0.1 login	
Maintenance		4/2022 13:10:17		Logout	[admin] 127.0.0.1 logout	
P Weintenen Kie		4/2022 12:56:10		Login	[admin] 127.0.0.1 login	
Auto Reboot		4/2022 12:39:20		Logout	[admin] 127.0.0.1 logout	
		4/2022 12:32:43		Login	[admin] 127.0.0.1 login	
		4/2022 12:32:00		Logout	[admin] 192.168.0.157 logout	
		14/2022 12:29:30		Logout	[admin] 127.0.0.1 logout	
		4/2022 12:14:25		Login	[admin] 192.168.0.157 login	
		4/2022 12:13:41		Login	(admin) 127.0.0.1 login	
		4/2022 12:07:03		Logout	[admin] 127.0.0.1 logout	
	13 25/0	4/2022 11:41:55		Login	admin) 127.0.0.1 login	
		4/2022 11:41:50		Logout	[admin] 127.0.0.1 logout	
	15 25/0	4/2022 11:41:49		Power On	system	

Figure 7-112 Log screen

Step 2 Set start date, end date, start time and end time of the logs 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 the logs can be saved to flash disk and hard disk at the same time, the newest logs is saved

to flash disk, and the old logs will be transferred to hard disk.

----End

7.5.7.2 Event Log

Event logs are divided into more detailed types, which can be found quickly. Its operation is the same as the system log, please refer to chapter 7.5.7.1.

Information	System Log	vont Log					
⊳ General	Start Date	24/04/2022		Start Time	15:22:32		
⊳ User Account	End Date	25/04/2022		End Time	15:22:32		
Security Center	Туре			Searc		Export	
⊳ Layout			Channel	Log Type			
Auxiliary Screen		04/2022 15:20:18 04/2022 15:19:56	Channel05 Channel05	Motion Detection Motion Detection	Channel05 Channel05		
		04/2022 15:19:43	Channel05	Motion Detection	Channel05		
⊳ Maintenance		04/2022 15:19:27 04/2022 15:19:15	Channel05 Channel05	Motion Detection Motion Detection	Channel05 Channel05		
Auto Reboot		04/2022 15:18:25 04/2022 15:17:40	Channel05 Channel05	Motion Detection Motion Detection	Channel05 Channel05		
	8 25/0	04/2022 15:17:26	Channel05	Motion Detection	Channel05		
		04/2022 15:17:02 04/2022 15:16:37	Channel05 Channel05	Motion Detection Motion Detection	Channel05 Channel05		
		04/2022 15:16:24 04/2022 15:15:53	Channel05 Channel05	Motion Detection Motion Detection	Channel05 Channel05		
		04/2022 15:16:53 04/2022 15:14:46	Channel05	Motion Detection	Channel05		
		04/2022 15:12:11 04/2022 15:11:00	Channel05 Channel05	Motion Detection Motion Detection	Channel05 Channel05		

Figure 7-113 Event

7.5.8 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 7-114.

	Channel Record	Alarm	Network Sys				×
▶ Information	Maintonanco						
⊳ General							
▷ User Account	(\mathbf{I})	$(\frac{1}{2})$	$\left[\rightarrow \right]$	Ð	[=↓	[_]	
▷ Security Center	Shutdown	Reboot	Logout	Reset	Import Configur.	Export Configur.	
▶ Layout	Shutdown	Rebuut	Logout	Heset	mport Cumgu.	Export Coringur.	
▷ Auxiliary Screen	A	A	(+1)				
⊳ Logs	Ę,	لاتي	₽₽	~ ⊕			
	FW Update	Cloud Update	Save running log	Network Packet			
▶ Auto Reboot							

Figure 7-114 Maintenance screen

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

		Update		Х
USB Flash Name	0			⊷ Ca 🛍
	Nam	ie	Modify Date	Size
	Location :			
	Selected Directory :			
			t OK	Cancel

Figure 7-115 Firmware update

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

Step 4 The tips 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.

When the NVR finishes updating, the device would restart.

Network packet capture: the NVR is plugged into the USB disk, click the network packet capture,

and set the relevant parameters of the packet capture. The captured data can be downloaded and used for device problem analysis.

FW Update, firmware update; Plug in the U disk with the update software, choose the file to update.

Save running log: In the U disk to save the running log.

----End

7.5.9 Auto Reboot

Operation Steps

Step 1 Click **Auto reboot** in the main menu or menu of the system management screen and choose **Auto reboot** to access the maintenance screen, as shown in Figure 7-114.

🗙 System	Channel	Record	Alarm	Network	System		×
▷ Information	Auto Rebo	oot					
⊳ General	Enable	e Auto Reboot		0			
▹ User Account	Reboo	ot Time		Per Day	✔ 0:00		
Security Center							
⊳ Layout							
⊳ Logs							
» Maintenance							
► Auto Reboot							
							Apply
							citita)

Figure 7-116 Auto restart screen

Step 2 Enable the function, restart time is showing as figure Restart Time PerDay 000 V

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

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

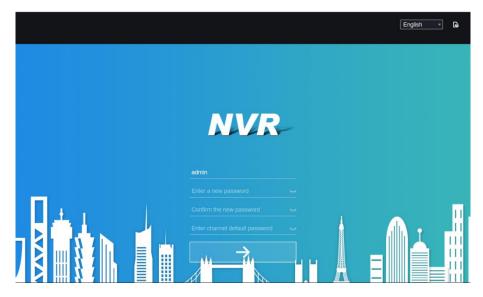
----End

8 WEB Quick Start

The functions of Web are the same as those of UI system, all functions can be referred to chapter 7 UI system setting.

8.1 Activation

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

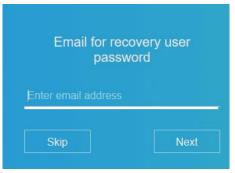


Step 1 Set the password, and confirm the password.

Step 2 Input the channel password.

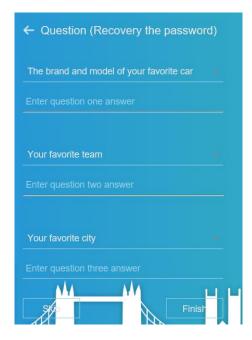
Step 3 Set the email to recovery the password.

Figure 8-2 Email



Step 4 Set the question to recovery the password.

Figure 8-3 Question



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

8.2 Login and Logout

\triangle caution

You must use Firefox 53, Chrome 45 or Edge to access the Web interface. Otherwise, the interface functions cannot be used normally.

The win 7/ win 10 system supports Firefox/Chrome, but the XP system does not.

Brower supports 32 bits systems.

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:

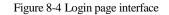
In the Chrome address bar, enter chrome://flag/#enable-npapi. Go to the experimental features' management page. Enable NAPAPI Mac, Windows. Click **Enable** (NPAPI plugin is enabled). Re-launch Chrome.

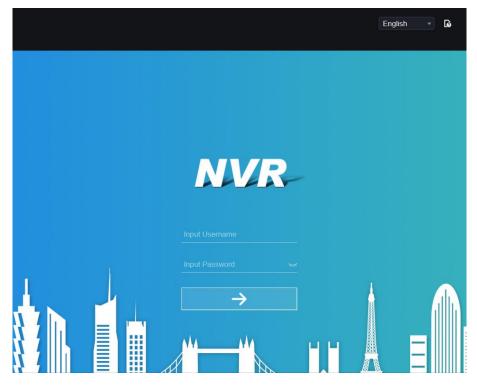
Here we take IE 10 as an example for videos viewing.

Login

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

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





Step 2 Input the user name and password.

🛄 ΝΟΤΕ

The default user name and password both are admin. The password is incorrect more than 3 times, please log in again after 5 minutes.

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

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

Step 3 Click Login to access the homepage, as shown in Figure 8-5.



		8	
			(
			42
NO-VIDEO	N0-VIDE0		
			7 1
			- 6
			>
			1 1
		> [A]	346
			Ø
			¢.
NOVIDEO	N0-VIDE0		♀ …
	<u>~</u>		
	NOVINED	NO W0E0 NO W0E0	NO VICEO NO VICEO

Figure 8-6 Homepage interface 2

NVR 💽	_ • Q ¢			6 B
Device	2022-04-25 16:05:55 Mon	2022-04-25 16:05:55 Mon	Channel05	
[1] Channel01		•	۵	
□ [2] Channel02 ►		The second second second	P .	<
(3) Channello3		TAR MARKS PAY		
 [4] Chennel04 [5] Chennel05 				-
(6) Channel06		Construction of the second		7 1
□ [7] Channel07 ►		<u>REER</u>	< ೧	> Î
🖬 (8) Channel08 🔹 🕨		and the second s	LV	-
			[#]	346
			0	@
			ø	ē.
				• …
	NO-VIDEO	NO-VIDEO		
		÷		

Logout

To logout of the system, click in the upper right corner of the homepage. The pop-up message shows "Would you like to exit?" Click OK and the login page will display.

Homepage Layout

NVR 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 6-8 shows the overall layout of the interface. For descriptions of the interface, please refer to Table 8-1.

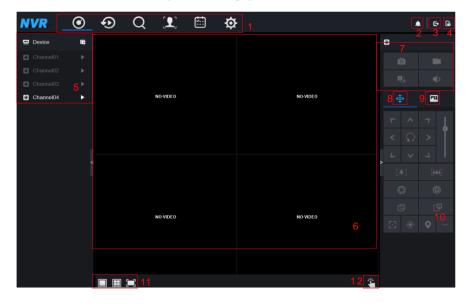


Figure 8-7 Homepage layout

Table 8-1	Descriptions	of homepage
-----------	--------------	-------------

No.	Function	Description
1	Function navigation bar	Main functions navigation bar of the device, it includes Live Video, Playback, Alarm Search, Face Recognition, Attendance and System Setting.
2	Alarm	Alarm notification. User can tick pop-up message to monitor, system alarm and channel alarm.
3	Logout button	User can click Logout to exit the current account and return to the login interface.
4	Help	Help for running environment, plug-in installation and activation.
5	Device's list	Display a list of the channels of the managed NVR and the channels managed by NVR.

6	Real-time video	Display the real-time videos of the channels managed by NVR.
7	Channel Operation	Include snapshot, record, stream switch and audio on/off.
8	PTZ control button	Click to show PTZ control buttons in zone 10, you can control the PTZ equipment in the current channels. That function only uses for IP dome camera.
9	Color parameter button	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.
10	Operation zone	The operation zone of PTZ control and image parameter setting.
11	Layouts	Select the one-screen, four-screen, nine-screen or sixteen- screen to switch the layout.
12	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, 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.

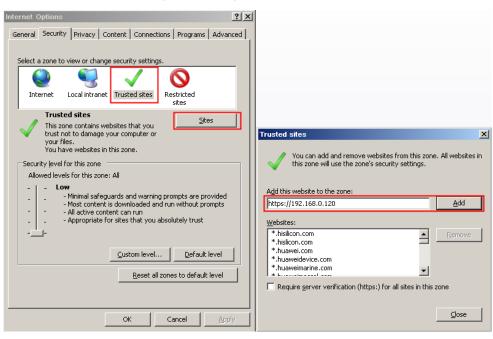


Figure 8-8 Adding a trusted site

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.

Internet Options	<u>? X</u>
General Security Privacy Content Connections Programs Adva	lvanced
	Security Settings - Internet Zone
Select a zone to view or change security settings.	
	Settings
	ActiveX controls and plug-ins
Internet Local intranet Trusted sites Restricted	Allow previously unused ActiveX controls to run without prom
sites	O Disable
Internet Sites	Enable Allow Scriptlets
This zone is for Internet websites,	
except those listed in trusted and restricted zones.	Enable
rescricted zones.	O Prompt
Security level for this zone	Automatic prompting for ActiveX controls
Decardy jeven or dris zone	O Disable
	Enable
Custom Custom settings.	Binary and script behaviors
- To change the settings, click Custom level.	O Administrator approved
- To use the recommended settings, click Default level.	I. O Disable
	Display wideo and animation on a webpade that does not use
	*Takes effect after you restart Internet Explorer
Custom level Default level	
	Reset custom settings
<u>R</u> eset all zones to default level	el Reset to: Medium-high (default)
	OK Cancel
OK Cancel Ap	Apply

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.

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.

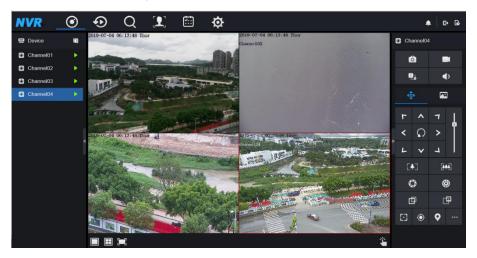


Figure 8-10 Real-time videos interface

----End

8.3.3 Channel Operation

Descriptions

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

Buttons	Button description	How to operate
Ô	Snapshot	Click button to take snapshots of the current image.
	Record	Click button to start recording and click button again to stop recording.
2:: :.o	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 disenable the video.

Table 8-2 Descriptions of homepage

----End

8.3.4 PTZ Control and Setting

Descriptions

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

PTZ Setting

If a Network Dome or a camera connected to PTZ had been added to the NVR 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 Click



Figure 8-11 PTZ control interface

Table 8-3 Device parameters

Buttons	Button description	How to operate
F ~ 7 < 0 > L ~ 1	Direction key	Click button to control omni-directional movement of the PTZ.
5	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	
\bigcirc	Iris+	Click buttons to adjust the aperture.
(Iris-	
þ	Far focus	Click buttons to adjust the focal length.
Ð	Near focus	
63	Auto focus	Click button to focus automatically.
۲	Home preset	N/A
•	Preset	The camera is set the tour, click the button and dome camera rotate as the setting.
	More	More settings, scan and tour

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.

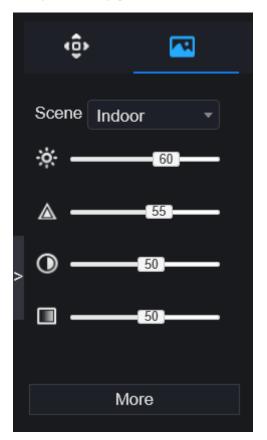


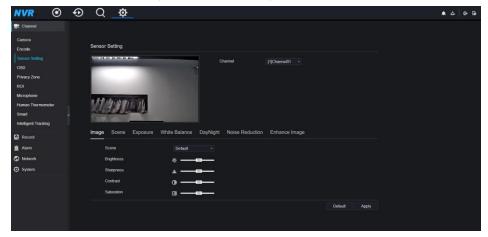
Figure 8-12 Image parameter interface

Table 8-4 Device	parameters
------------------	------------

Buttons	Button description	How to operate
ġ.	Brightness	Click button to adjust the image brightness.
	Sharpness	Click button to adjust the image definition.
\odot	Contrast	Click button to adjust the transparency of the image.
	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, for 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 conner of real-time videos interface, the buttons

indicate 1 screen, 4 screens and 9 screens from left to right. The device with more POE ports can support 16 screens layout.

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

The unselected device is marked with **b**.

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 exits, grey file axis indicates no video exits.

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.

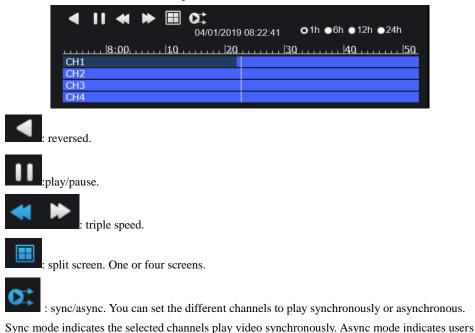


Figure 8-15 Control bar

●1h ●6h ●12h **0**24h

play different time period record

types of time bar.



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

----End

8.5 Alarm Search

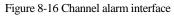
You can search for channel alarm and system alarm in the alarm search interface.

8.5.1 Channel Alarm

Procedure

Step 1 Click I in the function navigation bar, the channel alarm interface is displayed, as

shown in Figure 8-16.



NVR	۲	⊕_Q	¢				· 오 · 다 다
Device			Start time	Channel	Туре	Information	Operate
🖸 [1] uit							
2 [2] Channel 12							
3 [3] Channel29							
[4] Device							
Start Time 13/05/2021 08:31:12							
End Time							
14/05/2021 08:31:1							
Alarm In							
Camera Alarm I Motion Detectio							
🖬 Camera Tampe							
Video Loss + Intelligent Analy							
+ Abnormal Alarm							
Search		l<< <u>□</u> >>I	Total Number: 0				

Step 2 Choose the alarm type to search.

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

Figure 8-17	Channel	alarm	result
-------------	---------	-------	--------

NVR	۲	€	Q	¢				▲ 스 E B
Device				Start time	Channel	Туре	Information	Operate
[1] Channel01				25/04/2022 16:10:12	Channel05	Motion Detection	Channel05	⊕ ⊼
2 [2] Channel02				25/04/2022 16:05:11	Channel05	Motion Detection	Channel05	⊕ *
(3) Channel03				25/04/2022 16:04:38	Channel05	Motion Detection	Channel05	⊕ ±
[4] Channel04				25/04/2022 16:04:14	Channel04	Video Loss	Channel04	
[5] Channel05				25/04/2022 16:04:14	Channel03	Video Loss	Channel03	
(6) Channel06				25/04/2022 16:03:37	Channel05	Motion Detection	Channel05	⊕±
[7] Channel07				25/04/2022 16:02:18	Channel05	Motion Detection	Channel05	⊕±
[8] Channel08				25/04/2022 16:00:17	Channel05	Motion Detection	Channel05	⊕ ±
				25/04/2022 15:57:37	Channel05	Motion Detection	Channel05	⊕ ±
				25/04/2022 15:54:33	Channel05	Motion Detection	Channel05	⊕ ≭
				25/04/2022 15:52:02	Channel05	Motion Detection	Channel05	⊕ <u>*</u>
Start Time				25/04/2022 15:51:01	Channel05	Motion Detection	Channel05	⊕ ×
24/04/2022 16:12:55				25/04/2022 15:49:16	Channel05	Motion Detection	Channel05	⊕ ×
End Time 25/04/2022 16:12:55				25/04/2022 15:48:56	Channel05	Motion Detection	Channel05	⊕ ×
Z Alarm In				25/04/2022 15:47:34	Channel05	Motion Detection	Channel05	⊕ ±
Camera Alarm In Motion Detection				25/04/2022 15:43:06	Channel05	Motion Detection	Channel05	⊕ ⊻
Z Camera Tamper				25/04/2022 15:42:11	Channel05	Motion Detection	Channel05	⊕⊻
✓ Video Loss + ✓ Intelligent Analys				25/04/2022 15:41:20	Channel05	Motion Detection	Channel05	⊕ ±
+ Z Abnormal Alarm Search			/92 >>	Total Number : 1825				<u> </u>
	101	Е						
(Click		1	/6 >> 	to select the page of a	ılarm list.		
	Eve	ery p	age s	show 20	shows the	rows shown in every pa	ige.	

----End

8.6 Attendance (Only for Some Models)

8.6.1 Attendance Data

Click to enter attendance data interface, as shown in Figure 8-18.

NVR Attendance Da	ata Attendance M	anagement Bac	ж					▲ ⊡ G
Attendance Library	Attendance Summ	ary						⊥ Export
▼	Job Number	Name	Department	Required Times	Actual Times	Absence	Late	Early Leave
I LBL	100201	MR WANG	Default Lib					
employee 1	10022	LXH	Default Lib					
	10023	LBL	Default Lib					
Time This week *								
Custom time period Start Date 2019-06-30 End Date 2019-07-06								
Search Type Attendance Summary *								
Reset Search		> Every page	e show 20 -					

Figure 8-18	Attendance data
-------------	-----------------

Operation Steps

Step 1 Tick the attendance library.

Step 2 Choose time mode, such as today, this week, this month and custom time.

Step 3 Choose search type, such as attendance summary and attendance details.

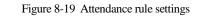
Step 4 Click search, the result will show in interface.

Step 5 Click Export to export the query result.

----End

8.6.2 Attendance Management

In attendance management, user can set attendance rule, library and check point, as shown in Figure 8-19.



NVR Attendance Data	Attendance Management Back	♠ Œ G
Attendance Rule Set Attendance Library Attendance Check P	Attendance Rule Settings	
	Working Time: Start-work time 10:00 End-work time 17:00	
	Workday Setting: Sunday 🛪 Monday 🛪 Tuesday 🛪 Wednesday 🛪 Thursday 🖉 Friday 🖬 Saturday	
	Check-in valid time: Before start-work time 90 min to After start-work time 30 min Check-out valid time: Before end-work time 30 min to After end-work time 240 min	
	If employee does not check in when starting work, mark as absent	
	If employee does not check out when ending work, mark as absent	
		Apply

Operation Steps

Step 1 Set start work time and end work time.

Step 2 Tick the workdays.

Step 3 Set valid time of check in and check out.

Step 4 Click Save to save the setting.

Attendance library

Step 1 Click **Attendance Library** to add library, the attendance library can call the face database directly.

NVR Attendance D	ata Attendance Management Back		♠ E+ G
 Attendance Rule Set Attendance Library Attendance Check P 	Attendance Library Face Library @ Library Management 2 Items Default Lib E employee 1	t Attendance Library Attendance Library	
			Save

Figure 8-20 Attendance library

- Step 2 Tick the library and click **Add** to add to attendance library. If you want to modify the library, please enter to library interface to change parameters..
- Step 3 click Otatabase management to enter the face database management to modify

parameter.

Step 4 Click Save to save the setting.

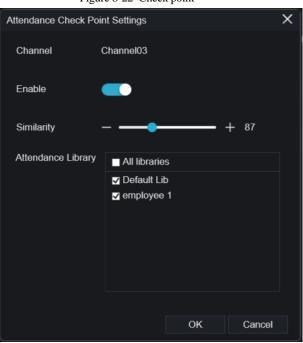
Attendance check point settings:

Step 1 Click Attendance check point settings to set point, as shown in Figure 8-21.

	8	и пенеанее енеск рог				
NVR Attendance Data	Attendance Management Ba	ck				.▲ ⊡ G
 Attendance Rule Set Attendance Library 	Attendance Check Point Se	ttings				
	Channel	Attendance Library	Similarity	Enabled	Operate	
	Channel01	Default Lib	80%	Start	2	
	Channel02	Default Lib	80%	Start	۷	
	Channel03	Default Lib;employee 1	87%	Start	۷	
	Channel04	Default Lib	80%	Start	۷	

Figure 8-21 Attendance check point setting

Step 2 Click 🔟 to edit check point setting, as shown in Figure 8-22



Step 3 Enable the function, set similarity and tick the library, all face detection cameras can be set the check points.

Step 4 Click OK to save the setting.

----End

8.7 AI Recognition (Only for Some Models)

At AI recognition interface, we can set the **Real time Comparison**, **Smart search**, **Archives library**, **Comparison configuration**.

Figure 8-22 Check point

8.7.1 Real Time Comparison

Real time comparison can compare human face, vehicle license plate, and AI(include riding,

vehicle, full body)

8.7.1.1 Human Face

At real time comparison interface, click the **L** to enter the human face comparison interface, choose the cameras with face recognition function to play live video, the snapshot of camera will be compared with libraries, the result shows as in Figure 8-23.

 Restrictions on the lattice of the

Figure 8-23 Human face comparison

Click the "+" to add the snapshot to face library immediately.

----End

8.7.1.2 Vehicle License Plate

At real time comparison interface, click the **NO** to enter the vehicle license plate comparison interface, choose the cameras with license plate recognition function to play live video, the snapshot of camera will be compared with libraries, the result shows as in Figure 8-24.

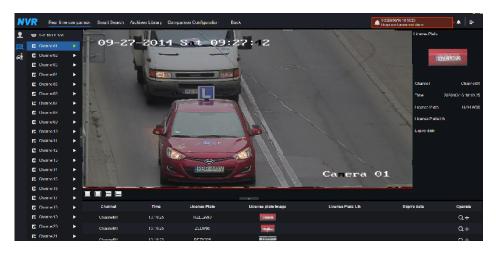


Figure 8-24 Vehicle license plate

Click the "+" can add the snapshot to license plate library immediately.

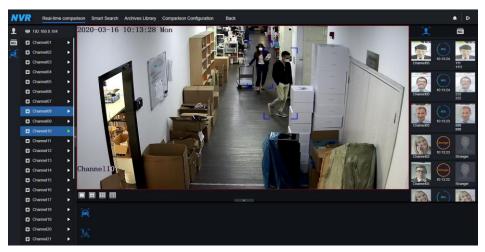
To get snapshot in real time video, put the cursor on picture such as $\frac{1}{2}$ $\frac{1}{2}$, you can add it to face library, or face search. The cursor on area 6 and the pictures are not update, move the mouse so that the pictures can be shown in time.

----End

8.7.1.3 Vehicle and Full Body

At real time comparison interface, click the **No** to enter the vehicle license plate comparison interface, choose the AI recognition cameras to play live video, the snapshot of camera will compare with libraries, the snapshot to vehicle and full body will show at the bottom of page, the result shows as in Figure 8-25.

Figure 8-25 Full body

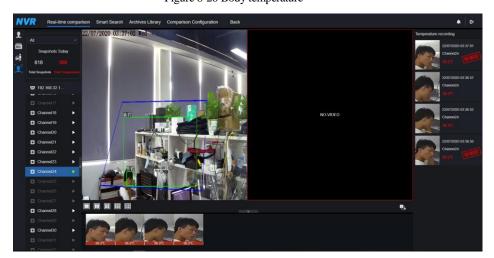


8.7.1.4 Real Time Body Temperature Filter

The real time body temperature will show the snapshot of device, it shows the over temperature and snapshot to human face.

Snapshot will show the characteristic such as no mask (the mask detection configuration can be

set at comparison configuration interface (E), Figure 8-26 Body temperature



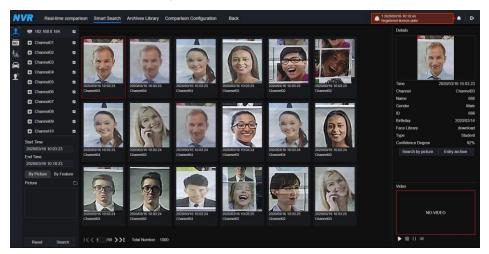
8.7.2 Smart Search

At smart search interface, users can search the human face, vehicle license plate, full body, car,

body temperature.

8.7.2.1 Human Face Search

Figure 8-27 Human face search



Step 1 Choose human face search at smart search interface.

Step 2 Tick the face recognition camera channels, set the start time and end time.

- Step 3 Choose the condition (by picture or by feature), the picture can be chosen from the file folder.
- Step 4 Click "Search" to search the snapshot of human face.
- Step 5 The result will show at the middle of page, click the picture and detailed information at the top right of page.
- Step 6 Detailed picture can be used to search or add to library.
- Step 7 Click play button of video to play the recordings of snapshot.

8.7.2.2 Vehicle License Plate Search

Figure 8-28 Vehicle License Plate search

NVI	Real-time o	ompariso	n Smart Search	Archives Library Comparison Configu	ration Back		1 200 Regis	0/03/16 10:19:33 dered personnel alarm	••	6
L =	2 192.168.8.184		Search result							
D C	Channel01		Channel	Time	License Plate	License plate image	License Plate Lib	Expire date	Operate	
50	Channel02		Channel01	2020/03/16 10:17:07	RZ5060C					
3 6	Channel03		Channelot	2020/05/16 10 17 07	RZ5060C			Never expire		
E .	Channel04		Channel01	2020/03/16 10:17:07		27 2014				
<u>،</u>	Channel05		Channel01	2020/03/16 10:17:08	500OCC	Taken I			+	
e	Channel06									
E	Channel07		Channel01	2020/03/16 10:17:10		27-2014				
c	Channel08		Channel01	2020/03/16 10:17:10	RZ3958J	CARLES				
c	Channel09		Channel01	2020/03/16 10:17:16	RRS05UW	CHARGE				
e	Channel10		Channel01	2020/03/16 10:17:21	26087K	Tarran				
c	Channel11		Channeson	20200.910 10 17 21	2000/K	(MAXOUN				
E	Channel12		Channel01	2020/03/16 10:17:23	RNI31TR	(IDZOBIDIO)				
6	Channel13		Channel01	2020/03/16 10:17:24	RNI31TR	RNDSHIR				
E	Channel14		Channel01	2020/03/16 10:17:27	R49440	ALCONO.			+	
. 6	Channel15	12				and the second second				
	rt Time		Channel01	2020/03/16 10:17:30		27-20 ¹⁴				
	20/03/16 10:04:17 d Time		Channel01	2020/03/16 10:17:30		FARZE 25/92				
	20/03/16 10 19 17		Channel01	2020/03/16 10 17:35	R704701	NRZ 20791			+	
Lie	ense plate(optional)		Channel01	2020/03/16 10 17 35	R704701	Rest Carses			+	
						and American				
	Reset Searc		1< < 23 / 24	>>I Total Number : 478						

Step 1 Choose vehicle License Plate at smart search interface.

Step 2 Tick the vehicle license plate recognition camera channels, set the start time and end time.

Step 3 Input the license plate optionally.

Step 4 Click "Search" to search the snapshot of license plate.

Step 5 The result will show at the page, click "+" add to library.

8.7.2.3 Full Body Search

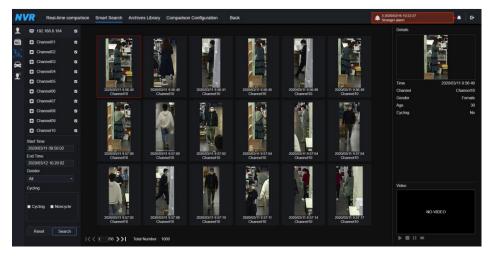


Figure 8-29 Full body search

Step 1 Choose full body search at smart search interface.

Step 2 Tick the AI recognition camera channels, set the start time and end time.

Step 3 Set the gender, click cycling or no cycling.

Step 4 Click "Search" to search the snapshot of human face.

Step 5 The result will show at the middle of page, click the picture and the detail information show at the top right of page.

Step 6 Click play button of video to play the recording of snapshot.

8.7.2.4 Vehicle Search

	🖶 192.168.8.184							Dotails	
	Channel01								
	Channel02		Marco and			-		- Contraction	
	Channel03	Constant of the local division of the local	Common State	1000	and the party of	CARD OF THE OWNER	and the second s	100	
	Channel04	1.000	and the second	1	Comment Office	100	A DESCRIPTION OF	1000	
	Channel05							Time	2020/03/05
	Channel06	2020/03/09 11 50 56 Channel08	2020/03/09 11:50:56 Channel08	2020/03/09 11:50:57 Channel08	2020/03/09 11 50:57 Channel08	2020/03/09 11:50:57 Channel08	2020/03/09 11:51:53 Channel08	Channel	
	Channel07							Car color	
	Channel08			The second second					
	Channel09	47 5	No.	2	To To	1	2 The		
	Channel10	C. minut	Contraction of the local division of the loc	And in the local diversion of	low al	-0-	-0		
	tart Time	Acres of the	-	1 million (1997)	Same Mills	Aller D. Man-			
	2020/03/09 09:54:42	2020/03/09 11 52:09	2020/03/09 11:52:52	2020/03/09 11 53 32	2020/03/09 11:54:00	2020/03/09 11:54:00	2020/03/09 11:54:01		
	nd Time 2020/03/13 10:24:42	Channel08	Channel08	Channel08	Channel08	Channel08	Channel08		
	ar color								
	White Black	THE REAL PROPERTY AND	-	-	-		1000		
ŀ	Red Gray	and 1	and 1	2 ALL	anne 1	and and	1000	Video	
	Other	1000		the state	COMPANY OF COMPANY		1000		
									NO-VIDEO
		2020/03/09 11 54:01 Channel08	2020/03/09 11:54:02 Channel08	2020/03/09 11:54:03 Channel08	2020/03/09 11:54:03 Channel08	2020/03/09 11 54:04 Channel08	2020/03/09 11:54:23 Channel08		
	Reset Sear								
		< 1 /56 >> Tota	I Number : 1000					> = II ×	

Figure 8-30 Vehicle search

Step 1 Choose vehicle search at smart search interface.

Step 2 Tick the AI recognition camera channels, set the start time and end time.

Step 3 Tick the color.

Step 4 Click "Search" to search the snapshot of human face.

Step 5 The result will show at the middle of page, click the picture and detailed information at

the top right of page.

Step 6 Click play button of video to play the recordings of snapshot.

8.7.2.5 Body Temperature Search

NVR	Real-time c	ompariso	n Smart Search Archi	ves Library Comparison Confi	guration Back			2 2020/03/16 10:31:03 Stranger alarm	• G
1 =	192.168.8.184		Search result						
NO. O	Channel01	2	Number	Capture Photo	Library Photo	Information	Temperature	Capture Time	
‰ □	Channel02	•				Channel01			
	Channel03	•				Stranger		2020/03/09 12:10:49	
	Channel04	•		N.R.C.					
	Channel05	•				Channel01			
	Channel06	2	992			Stranger	17.7°C	2020/03/09 12:12:10	
	Channel07	2							
	Channel08								
	Channel09	2				Channel01 Stranger			
	Channel10					Canal Pro		2020/03/09 12:12:12	
	Channel11								
	Channel12	2		miller was		Channel01			
Start	Time			10-		Stranger		2020/03/09 12:12:40	
	V03/09 10:00:17								
End T 2020	ume W03/13 10:30:17					Channel01			
	xn Type		995			Stranger	17.7°C	2020/03/09 12:12:44	
All	erature Type		- 660					2020/03/09 12.12.44	
All	oronano rypo								
ID(op	tional)					Channel01			
				Total Number : 1000					
	Reset Searc		I<< 166 / 167 >>I	Total Number: 1000					

Figure 8-31 Body temperature search

Step 1 Choose body temperature search at smart search interface.

Step 2 Tick the AI recognition camera channels, set the start time and end time.

Step 3 Choose the person type, temperature type, input ID optionally.

Step 4 Click "Search" to search the temperature.

----End

8.7.2.6 Personnel Count

If the AI camera connect to NVR, the NVR can obtain the data of camera directly. Set the statistical type (day, month, year), choose the time to search.

The result can show as line graph, histogram, or list, as shown in Figure 8-32.

Figure 8-32 Personnel count



----End

8.7.3 Archives Library

At archives library, users can add or edit the face library, license plate library.

8.7.3.1 Face Library

N	/ Real-tim	e comparison	Smart S	earch	Archives Library	Comparison Configuration	Back			A 2020/03/16 10:32:03 Registered personnel alarm	A G
[1]	Face Library		+ Add ×	C Delete	O Refresh						
NO.	Select All										
	Default Lib		•	Name	Gender	Birthday		Face Library	Туре	Expire date	Operate
	technology		-		Male	2020/03/14		download	Teacher	Never expire	∠∎
	🖬 image		•		Male	2020/03/14		download	Teacher	Never expire	∠ ∎
	engineering		•		Fornale	2020/03/14		download	Teacher	Never expire	∠ ∎
	🖬 арр		•		Female	2020/03/14		download	Teacher	Never expire	∠ ∎
	🖬 nvr		•	555	Female	2020/03/14	555	download	Teacher	Never expire	∠ ∎
	platform		•	666	Female	2020/03/14	666	download	Teacher	Never expire	∠∎
	🖬 ipc		-		Male	2020/03/14		download	Teacher	Never expire	∠ ∎
	unknow		•		Male	2020/03/14		download	Student	Never expire	∠∎
	⊠ test		-	999	Female	2020/03/14	999	download	Student	Never expire	∠ ∎
	hardware		•		Male	2020/03/14		download	Student	Never expire	∠∎
	download										
			I< < 14	144	>> Total Numb	ar: 2584					

Figure 8-33 Face library

Click "+" to add face library.

Click "Add" to add person enroll.

Tick the person, click "Delete" to delete the person.

Click "Import" to add the person batch.

Click "Export" to export all people in library.

Click operate icon to edit or delete the chosen person.

To get snapshot in real time video, put the cursor on picture such as **the picture**, you can add it to

face library, or face search. The cursor on area 6 and the pictures are not update, move the mouse so that the pictures show in time.

8.7.3.2 License Plate Library Figure 8-34 License plate library

🥂 Real-time	compariso	Smart Search Archives Library	Comparison Configuration	Back		•
License Plate Lib		+ Add X Delete O Refresh				
Select All						
Default Lib		License Plate	License Plate Lib	Expire date	Remark	Operate
EU license plate		RRS05UW	EU license plate	2020/03/11 09:07:28-2020/03/11 10:00:00		∠ ŵ
EUA		RZ4316C	EU license plate	Never expire		∠ @
floor 1st		RZE2K86	EU license plate	Never expire		∠ @
		RZ84375	EU license plate	Never expire		∠₩
		RBR44XV	EU license plate	Never expire		∠₩
		RZ4594F	EU license plate	Never expire		∠û
		RZ49466	EU license plate	Never expire		∠ŵ
		RZ3628K	EU license plate	Never expire		∠₩
		RZ31033	EU license plate	Never expire		∠ŵ
		RZE4P99	EU license plate	Never expire		∠û
		 RPZ13649 	EU license plate	Never expire		∠ @
		RZEHF02	EU license plate	Never expire		∠ ŵ
		RZE9EF7	EU license plate	Never expire		之節
		RZ5615K	EU license plate	Never expire		上節
		LZ49954	EU license plate	Never expire		∠ŵ
		RLEN286	EU license plate	Never expire		∠ŵ
		 RJA2925 	EU license plate	Never expire		∠ @

Click "+" to add license plate library.

Click "Add" to add plate to library.

Tick the plate, click "Delete" to delete the license plate.

Click "Import" to add the license plate batch.

Click "Export" to export the all-license plate library.

Click operate icon to edit or delete the chosen license plate.

----End

8.7.4 Comparison Configuration

At comparison configuration interface, users can set the comparison of human face/ license plate/temperature.

Figure 8-35 Face comparison

NVR						3 2020/05/16 10:38.49 Registered personnel ala	
2. 0							
E.		Edit Strategy X					
		Channel	Channel01				
		Similarity		*	+ 80		
		Register Stranger					
		Display comparison result					
		Face Library	Face Libra	ary			
			Default Li				
			technology				
			🖬 image				
		Enable Alarm					
	A Default Lib;app;nvr;technology;image;eng	Event Actions	Setting				
	A Default Lib;app;nvr;technology;image;eng	Arming Time	Softing				
					Cancel		

Event Actions		×
Buzzer		
Push message to APP		
Pop up message to monitor		
Email		
Full Screen		
Cloud Storage		
Alarm Out		
Alarm Time(s)(0:Continuous)		
Output ID		
Camera Alarm Out		
Alarm Record		
	OK Cancel	١

At face comparison interface, users can set different channels' strategy, such as similarity, display comparison result, face library, enable alarming, event action, schedule, as shown in Figure 6-35.

NVR	Real-time comparison	Smart Search Archives Library	Comparison Configuration	Back		Registered personnel alarm 3 2020/03/16 10:39:56	•	
1	channel12	A	EU;EUA;Default Lib		EU;EUA;Defaul		∠	
NO	channel13	A	EU,EUA;Default Lib		EU;EUA;Defaul			
<u>.</u>	channel14	A	EU;EUA;Default Lib		A EU;EUA;Defaul			
^	channel15	A	EU;EUA;Default Lib		EU;EUA;Defaul		2	
	channel16	4	EU;EUA;Default Lib		EU;EUA;Defaul		∠	
	channel17		Default Lib		Default Lib			
	channel18		Default Lib		Default Lib			
	channel19		Default Lib		Default Lib		2	
	channel20		Default Lib		Default Lib			
	channel21		Default Lib		Default Lib			
	channel22		Default Lib		Default Lib			
	channel23		Default Lib		Default Lib			
	channel24		Default Lib		Default Lib			
	channel25		Default Lib		Default Lib		∠	
	channel26		Default Lib		Default Lib			
	channel27		Default Lib		Default Lib		∠	
	channel28		Default Lib		Default Lib			
	channel29		Default Lib		Default Lib			
	channel30		Default Lib		Default Lib			
	channel31		Default Lib		Default Lib			
	channel32		Default Lib		Default Lib			

Figure 8-36 License comparison

At license plate interface, users can set strategies of different channels of license plate

recognition cameras, such as register and unregister, enable alarming, event action, schedule, as shown in Figure 8-36.

A means the library is deleted.

Figure 8-37 Temperature comparison

NV	Real-time comparison Smart Sea	rch Archives Library	Comparison Configuration	Back		▲ 2 2020/03/16 10:42:30 Stranger alarm	
1	Temperature Configuration						
NO.	Low temperature threshold(0.1-99.9)						
~	High temperature threshold(0.1-99.9)						
	Normal temperature(0.1-99.9)						
					Refresh Apply		
							ŝ

At temperature comparison interface, users can set low temperature threshold, high temperature threshold, normal temperature, as shown in Figure 8-37.

2	Edit Strategy	×			
	Channel	Channel11	🗾 Edit Strategy		х
	Similarity	80	Channel	Channel 13	
	Register Stranger		Registered Unregister.		
	Display comparison resul.	0		License Plate Lib	
		Face Library	License Plate Lib	EU EU	
	Face Library	Default Lib		EUA EUA	
		□ арр		🔽 🛛 Default Lib	
		nvr 🗸	Enable Alarm	lacksquare	
	Enable Alarm		Event Actions	Setting	
	Event Actions	Setting	Arming Time	Setting	
	Arming Time	Setting			
		OK Cancel		OK Cancel	

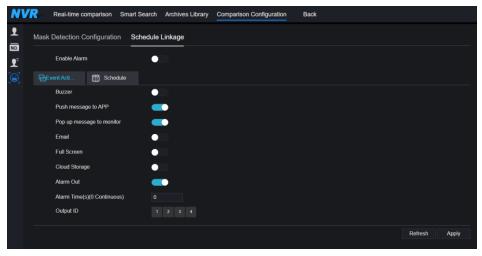
Mask detection configuration: enable mask detection, set the mode (wear mask, no mask). Set confidence degree, the default value is 90. Click "apply" to save the settings.

Figure 8-39 Mask detection configuration

N	/R	Real-time comparison	Smart Search	Archives Library	Comparison Configuration	Back			
₽	Masi	Contraction Configuration	n Schedule	Linkage					
₽ °		Mask Detection Enable							
		Mode Confidence Degree		No —	Mask - +	90			
							R	efresh Apply	

Enable mask alarm linkage, set the event action and schedule.

Figure 8-40 Schedule linkage



The alarm information is relevant to mask detection configuration.

9 System Setting

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

9.1 Channel

User can set parameter about camera, encode, sensor setting, OSD and privacy zone.

9.1.1 Camera

Step 0 On the System Setting screen, choose Channel > Camera to access the camera interface,

as shown in Figure 9-1.

NVR (•) Q		di (#)	ø				
Channel									
Camera									
Encode		Came	na RTSP C	onnection					
Sensor Setting			Channel	IP Address	Port	Model	Protocol	Firmware Version	Operate
OSD			 OH1 	192,168,32,196	30001	IPR57/41AKDN(IK10)/Z2.7-12/13	Private	13.6.0804.1004.3.0.10.0.0.AD /VSTest2	∠.e
Privacy Zone			 CH2 	192.168.32.222	30001		Private	V3.0SimulateSoftWare_30001	2.€
ROI			CH3	192 168 32 5	30001	IPR5821BZAN-J2-B8.0-13	Private	v3.6.0804.1004.3.0.10.7.0	∠.e
Human Thormometer			CH4	192.168.32.175	30001	IPR57/41AQDN/13	Private	13.6.0804 1004 3.0.10 10.0	2.0
Smart			CH5	192 168 32 166	30001	IPV57/80HDR/28	Private	v3.5.0807.1004.1.0.32.3.1	2.0
			CH6	192.168.32.171	30001	IPR5821BZAN-J2-B8.0-13	Private	v3.6.0804 1004 3.0.10.11.0	∠.e…
Record			CH7	192 168 32 162	30001	IPR57/41APDN/Z/13	Private	13.6.0804 1004 3.0.11 0.0	∠.e
a Alarm			CH8	192.168.32.161	30001	IPV5702GDR-Z/13	Private	v3.5.0812.1004.3.0.33.0.0	∠.6
Network			CH9	192.168.32.145	30001		Privato	13.6.0819.1004.3.0.10.8.0	∠.0
System			CH10		30001	IPR57/20AKDN/T/Z2.7-12/13	Private	v3.6.0804.1004.3.0.10.11.0.D05	∠.e…
			CH11	192.168.32.157	30001	IPS56/30CDR/ZSD12/21	Private	v3.4.0702.1003.3.0.102.0.0	∠.©
			CH12	192,168,32,155		EN-CDUM-008	ONVIE	v3.5.0804.1004.88.1.33.7.14	∠e
						IDD56/464DON/13			
					Usemame	admin Password ·····	Add Device	es Search Refresh Delete	Batch Update

Step 1 Input username and password (the default username and password both are admin), and

Click To Add add cameras automatically.

click

System Setting

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

Choose the cameras, input username and password, click **Add** to add new cameras. Figure 9-2 Device search

Camera	Protocol Ma	nagement				
-	ID	IP Address	Port	Model	Protocol	Firmware Version
		192.168.99.14	30001	IPS57/30BDR/ZSD30/28	Private	t3.6.0804.1004.3.0.8.12.0
		192.168.70.177	30001	C81031-W	Private	v3.5.0819.3900.172.0.31.0.105
		192.168.70.176	30001	C81041-W	Private	v3.5.0819.3900.172.0.31.0.105
		192.168.10.249	30044	IPR57/08ALDN/Z3.3-12/23	Private	v3.5.0819.1004.3.0.33.3.0
		192.168.10.208	30001	SN-T5L/13	Private	t3.6.0825.1004.3.0.13.4.0
		192.168.10.127	80		ONVIF	
		192.168.10.126	80		ONVIF	
		192.168.10.8	30001	SN-IPR5821BZAN-J3-Z2.7-13.5-13	Private	t3.6.0804.1004.3.0.6.90.0
		Username adr	nin	Password ••••• Stop Sea	arch(2s)	Add Refresh Back
tep 3 Cl	ick	Back to	back to	camera interface.		
ep 4 Cl	ick Re	efresh to r	refresh ca	ameras status.		
ep 5 Cl	ep 5 Choose the cameras and click Delete to delete.					
ep 6 Cl	ick Batch	ו Update to נ	ipdate al	l selected cameras at once	e, the pop	o-up window would
s	how to se	elect software	e.			
	1					

Step 7 Click **step 1** to modify the information of device parameters, as shown in Figure 9-3.

Modify device parameters			×
Channel Name	Channel06		
IP Address	192.168.0.232		
Protocol	Private_SSL		
Port	20001		
Username	admin		
Password		*	
Remote Channel	CH-1		
		Cancel	ОК

Figure 9-3 Modify device parameters

Step 8 Click

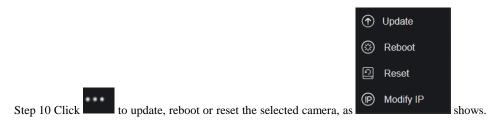
to add camera manually, click the added channel to copy information to add,

so that user just modify some information quickly, as shown in Figure 9-4.

Figure 9-4 Add camera manually

Manually Add Devices		×
Channel	IP	Protocol
CH1	192.168.32.196:30001	Private
CH2	192.168.32.222:30001	Private
CH3	192.168.32.5:30001	Private
CH4	192.168.32.175:30001	Private
Channel	32	
IP Address	192.168.32.5	
Protocol	Private •	
Port	30001	
Username	admin	
Password	•••••	
Remote Channel	CH-1 •	
		OK Cancel

Step 9 Click to access web immediately.



The pop-up message "Are you sure to restart the device?" "Are you sure to reset?

Reserve IP Address" would respectively show.

Figure 9-5 Modify IP

IP Address		
Subnet Mask		
	ОК	Cancel

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. Access to the modify device parameters interface to change.

9.1.1.1 Protocol Management

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

Figure 9-6 Protocol management

Camera Protocol Manageme	ent
Custom Protocol	Custom Protocol 1 *
Protocol Name	Custom 1
Stream Type	ਯMain Stream ∎Sub Stream
Туре	RTSP V RTSP V
Port	554 554
Path	
	Refresh Apply

Step 1 Click Channel > Camera > RTSP Connection.

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 of the IP camera.

Step 7 Input the path, which decided by the manufacturer of cameras.

Step 8 Click Apply to save the settings.

9.1.2 Encode

Step 1 On the System Setting screen, choose Channel > Encode to access the encode interface,

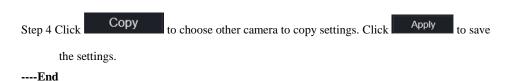
as shown in Figure 9-7.

Encode				
	Channel	[1]Channel01		
	Stream Information	Main Stream		
	Video Format	H265		
	Audio Encode Type	G711A		
	Resolution	1920x1080		
	Frame Rate(fps)	25		
	I Frame Interval(Frame)	50		
	Bitrate Type	CBR		
	Bitrate(kbps)(500-6144)	4096		
	Smart Encode			
			Сору	Apply

Figure 9-7 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.



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 9-8.

Figure 9-8 Image interface

	Chann	el	[3]Channel29	
14/05/2021 09:- Change129	45:20 Pc1			
Scene Exposi	ure White Balance DayNight N	oise Reduction	Enhance Image	
	ure White Balance DayNight N	oise Reduction	Enhance Image	
Scene		oise Reduction	Enhance Image	
Scene Expose Scene Brightness Sharpness	Default -	oise Reduction	Enhance Image	
Scene Brightness	Default -	oise Reduction	Enhance Image	

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 camera's senor setting, please refer IP cameras' settings.



the settings.

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 is the smaller the difference range is, the smaller the contrast is.

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: it 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: 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 5-4

OSD		
	Channel	[1]Channel01 -
	Time	
	Channel Name	Channel01
	0022-04-25 16:25:20 Mon	
	Name	
	1 mar 1	
	A REAL PROPERTY AND INC.	
	1999191919	
	10-10-	
		Copy Apply

Figure 9-9 OSD interface

Step 2 Select a channel and scene from drop down 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 choose other cameras to copy settings. 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 9-10.

Figure 9-10 Privacy interface

NVR	Q _ \$ _
🛃 Channel	
Encode	Privacy Zone
Sensor Setting OSD Privacy Zone	Channel 22/Channel12 -
ROI Microphone Human Thermometer	
Smart <	Cick and hold left button and drag to select an area Outdo cick an area to defet #
😡 Record	 Subports on the set of under a set of
 Network System 	

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 would delete the area.

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

Step 5 Click Copy to choose other cameras to copy settings. Click Apply to

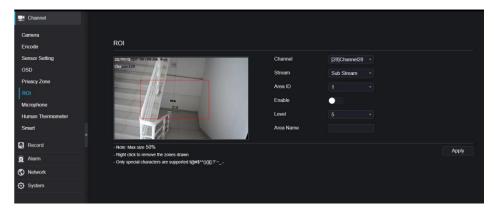
save the settings.

----End

9.1.6 ROI

ROI(Region of interest), choose channel, stream, area ID and draw the area. Set the level, there are five levels can be chosen. Set area name, click "Apply" to save the settings.

Figure 9-11 ROI



9.1.7 Microphone (Only for Some Models)

Users can set the microphone parameters of channel.

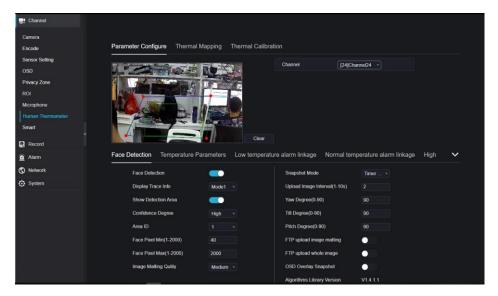
Figure 9-12 Microphone

🛒 Channel		
Camera		
Encode	Microphone	
Sensor Setting	Channel	[1]Channel01 ·
OSD		
Privacy Zone	Microphone	
ROI	Microphone Type	Line In *
Microphone	Microphone Volume	+ 50
Human Thermometer		
Smart		Apply
Record		
🖻 Alarm		
S Network		
System		

9.1.8 Human Thermometer (Only for Some Models)

Users can set the parameters of human thermometer cameras, such as parameter configure, thermal mapping, thermal calibration, for more detail please refer to the UI settings.





9.1.9 Smart (Only for Some Models)

At smart interface, users can set AI multiobject, license plate recognition, face detection.

Figure 9-14 Smart interface

🛒 Channel				
Camera				
Encode	Al Multiobject License Plate R	lecognition Face Detect	ion	
Sensor Setting	and the second second second second		Channel [3]Channel	03 -
OSD	CONTRACTOR OF THE OWNER		Community [O]Conditional	u <u>u</u> u -
Privacy Zone				
ROI				
Microphone				
Human Thermometer				
Smart				
Record		Clear		
🚊 Alarm	Parameter Configure Schedul	e		
S Network	Face Detection		Image Matting Quilty	Medium -
System	Fullbody Detection		Attribute	
	License Plate Detection		Snapshot Mode	Optimal -
	Vehicle Detection		Yaw Degree(0-90)	
	Display Trace Info	Mode1 +	Titt Degree(0-90)	
	Show Detection Area		Pitch Degree(0-90)	
	Confidence Degree	Medium -	FTP upload image matting	
	Face Pixel Min(30-300)		FTP upload whole image	
	Body Pixel Min(30-300)	30	Algorithms Library Version	V0104010101040101

9.1.10 Intelligent Tracking (Only for Some Models)

This function can only be used for high speed dome camera. It works with PTZ function. Figure 9-15 Intelligent tracking

NVR 🕥 🗸	⊕ Q <u>¢</u>	
🛒 Channel		
Camera Encode	Intelligent Tracking	
Sensor Setting OSD	Channel	[2]Channel12 *
Privacy Zone	Intelligent Tracking	
ROI	Calibration Coefficient	- e
Microphone	Trace Magnify	- - + 0
Human Thermometer Smart <	Time Of Duration(s)	- + 0
Intelligent Tracking		Apply
Record		
🚊 Alarm		
S Network		
System		

The detailed information please refer to UI configuration setting.

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

💻 Channel	
Record	
Record Schedule	Record Schedule
Disk	Channel [1]uit •
Storage Mode	Enable Record
S.M.A.R.T	_
Disk Calculation	Enable Record Audio
FTP	Enable ANR C
🚊 Alarm	All \$ 2 4 6 8 10 12 14 16 18 20 22 24 Sun \$
S Network	Mon s
System	Tue 😋
U System	Wed S
	Sat 🗧 Ma VO
	Copy Refresh Apply
	сору кенези орруг

schedule interface, as shown in Figure 9-16.

Figure 9-16 Record schedule interface

Step 2 Select a channel.

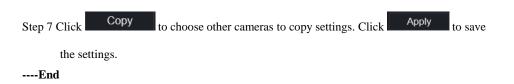
Step 3 Enable the record, then enable record audio.

Step 4 Enable ANR, when the IP cameras support the ANR, if the cameras are disconnected to NVR, the NVR can copy the loss video recordings from SD card installed in cameras.

Step 5 Set the record schedule, you can drag the mouse to choose area, click is 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 6 Click Refresh to return the previous settings.



9.2.2 Disk

Step 1 On the System Setting screen, choose Record >Disk to access the disk interface, as

shown in Figure 9-17.

Disk			
	HDD Disk1 Capacity 2TB		
			Format
	Disk Status	Normal	
	Disk SN	WD-WXE1A791JKF4	
	Used Space	434GB	
	Disk Group		
	Recording Overwrite	-	
	Expired Time(Day)		
			Apply

Figure 9-17 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 users 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 Choose the disk group from drop-down list, there are four disk groups.

Step 5 Enable the recording overwrite, set the expired time. (If the expired time is 0, it means the

disk is full, then the recording will be rewrite. It the expired time is 5 days, the recording video will be rewrite when it reaches the expiration date..)

Step 6 If the recording overwrite is disable, set the expired time, it is up to 90 days.

----End

9.2.3 Storage Mode

Distribute channels to different disk groups as needed for efficient use of the disk capacity.

Storage M	lode										
	Mode Selection	0	Gro	up							
	Disk Group										
	Channel	1	2	3	4	5	6	7	8		
		9	10	-11	12	13		15	16		
		17	19	10	20	21	າາ	22	24		
											Apply
Group	Disk		Chai	nnel					Used Space	Capacity	
	Disk1		1-1	16					985GB	1000GB	
2	Disk2		17-	32					733GB	4.0TB	
	Disk3		33-	48					753GB	4.0TB	
4	Disk4		49-	64					2.9TB	3.0TB	

Figure 9-18 Storage Mode

Operation Steps

Step 1 Choose the disk group.

Step 2 Select the channel to record to disk group.

- Step 3 Click Apply to save the settings.
- Step 4 The group list will show the detail information.

9.2.4 RAID (Only for Some Models)

RAID is only used for the device with 4 disks or more. And the disks must be enterprise level disks. It is recommended to choose the same capacity for efficient use.

For Raid5, at least 3 disks can be created. For RAID6, at least 4 disks can be created. For RAID10, at least 4 disks can be created. Creating a hot spare disk requires more disks.

It is recommended to choose the same capacity for efficient use. The RAID with less than 100T capacity can be built.

NVR	\odot	€	Q	C:	¢						۵ ک	G• 🕞
📑 Channel												
Record												
Record Schedule			RAID									
Disk					RAID Name	Capacity	Status	Туре	HDD Members	Operate		
RAID												
S.M.A.R.T												
🚊 Alarm												
S Network												
System												
G Local												
										Create		6

Figure 9-19 RAID

Operation Steps

Step 1 Click **RAID** to create the RAID.

~	(~
Cre	eate RAID					×
F	RAID Type		RAID 5 -			
		Name	Capacity	Hotsp	oare Disk	
		Disk1	2TB		•	
		Disk2	6TB		•	
		Disk3	6TB			
		Disk4	3TB		•	
		Disk5	2TB			
		Disk6	2TB			
		Disk7	1TB		•	
		Disk8	2TB			
				ок	Cancel	

Step 2 Click Create to choose disk to create a new RAID.

Step 3 Tick the **Hot-spare Disk** to back up the broken disk in case, the number of disk must be more than basic disks.

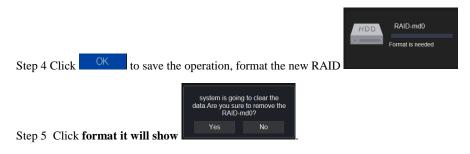


Figure 9-20 Modify the RAID

D-md0 RAID Na	amo	RAID-md0		Туре	RAID 5		
Capacity		6TB		Members	Disk1,2,3,4,5		
	Name	Capacity	Status	Туре	Hotspare Disk	Operate	
	Disk1		Active	RAID 5			
	Disk2		Active	RAID 5			
	Disk3		Active	RAID 5	No		
	Disk4		Active	RAID 5			
	Disk5		Spare	RAID 5	Yes	ŵ	
	Disk6			HDD			
	Disk7			HDD		+	
	Disk8			HDD			

9.2.5 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 9-21.

NVR 💿	۲	Q Ø							
🛃 Channel									
Record									
Record Schedule		S.M.A.R.T WDDA							
Disk									
Storage Mode		Disk							
SMART		Disk SN	WD-WXE1A791JKF4			Disk Mo	del	WDC WD21F	PSRX-89AHTY0
Disk Calculation		Temperature				Working	Time	2.1 Month	
		Disk Health	GOOD						
Alarm			Attribute Name	Status	Value	Worst	Thresh	Type	Raw value
S Network			raw-read-error-rate		200			prefail	0x00000000000
System			spin-up-time					prefail	0xfc080000000
			start-stop-count					old-age	0x620100000000
			reallocated-sector-count					prefail	0x00000000000
			seek-error-rate					old-age	0x00000000000
			power-on-hours					old-age	0xc9050000000
			spin-retry-count					old-age	0x000000000000
			calibration-retry-count					old-age	0x00000000000
			power-cycle-count					old-age	0x62010000000
			power-off-retract-count					old-age	0x60010000000
			load-cycle-count					old-age	0x010000000000
			femoerature-celsius-2					old-age	0x200000000000

The disk of Western Digital can be viewed by WDDA, as shown in Figure 9-22.

NVR ③	● Q	Ø				
🛒 Channel						
Record						
	S.M.A.F	R.T WDDA				
Record Schedule						
Disk		Disk	Disk1 *			
Storage Mode		Disk SN	WD-WXE1A791JKF4	Disk Model	WDC WD21P	SRX-89AHTY0
Disk Calculation		Warning		Advisory		
FTP		Wanning				
🚊 Alarm		ID Attribute N	lame	5	tatus	Raw value
S Network			wer On Reset Alert	N	lormal	354
System		2 Power On I			lormal	1481
		3 Head Load	Lifetime Count Alert	٨	lormal	354
		4 Current Ter	nperature Alert	N	lormal	
		5 Total Lifetin	ne Workload Alert	м	lormal	3.2302463
		6 Total Work	oad Rate Alert	N	lormal	19.106655
			Reset Rate Alert	Ν	lormal	0.23902768
		8 Head Load		М	lormal	0.23902768
		9 Soft Reset			lormal	
		10 Hard Rese			lormal	
			Failure Alert		lormal	
		12 Interface C	RC Alert	h	lormal	

Figure 9-22 WDDA (Supplied for Some Model)

9.2.6 Disk Calculation

Computing Capacity Computation time shown in.

There are two modes to calculate the captivity of disk, as

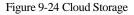
Figure 9-23 Disk calculation

NVR	۲	€	Q	Ø.	
🛒 Channel					
Record			Disk Calc	ulation	
Record Schedule Disk Storage Mode S.M.A.R.T Disk Calculation FTP				Currently total camera(s) bitrate Calculation Mode Expect to save time Recording time per day	18.00 Mbgs Computing Cap • 10 Day • 24 h
 Alarm Network System 				The required disk space	2.04 18

NVR ③	Ð	Q	\$	
🛒 Channel				
Record				
Record Schedule		Disk Calcu	ulation	
Disk Storage Mode S.M.A.R.T Disk Calculation FTP 20 Alarm			Currently total camera(s) bitrate Calculation Mode Disk Capacity Recording time por day The recording time for 218 disk cap	18.00 Mtps Computation time * 2 TB * 224 h
Austin Network System				

9.2.7 Cloud Storage (Only for Some Models)

User copy the authorization code path to browser to enter Google Drive interface. Google sends the code, and users input the code to authority NVR, so the device can set the alarm recording to Google drive.



Cloud Storage	
Enable	
Cloud Type	Google Drive 🔻
Certification Status	Authentication failed
Authorization code path	https://accounts.google.com/o/oau
Authorization code	Send 9:57



Enable the alarm of cloud storage at first so that the Google drive can receive the recoding.

Cloud storage can only be set at motion detection and intelligent analysis interface.

9.2.8 FTP

Set the FTP path to receive the alarm information, as shown in Figure 9-25. More detail information please refer to UI interface parameters.

Figure 9	9-25	FTP
----------	------	-----

FTP				
Ena	able FTP Upload	•		
FT	P Address			
FT	P Port			
Acc	count			
Pas	ssword			
FTI	P Path			
Upl	load File Size(0-64MB)			
		Test		
				Apply

9.3 Alarm

Users can set general, motion detection, 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 9-26.

Figure 9-26 General interface

General	IO Control Push							
	Enable Alarm							
	Alarm Duration Time (sec)							
	Buzzer Duration Time (sec)							
						Refresh	Apply	
Step 3 Click	Apply to save s	ettings.	. Click	Refresh	to return to	o the pr	evious s	setting

9.3.1.2 IO Control Push

Procedure

Step 1 On the **System Setting** screen, choose **Alarm > General** > **IO Control Push** to access the general interface.

Step 2 Enable the IO control push, as shown in Figure 9-27.

💻 Channel			
Record			
🚊 Alarm	General	IO Control Push	
General Motion Detection Camera Tamper Video Loss		Enable Alarm In Mode NO	
Intelligent Analysis Alarm In Abnormal Alarm Alarm Out		Disabled Items Push message to APP Email	
Network System		Refresh	Apply

Figure 9-27 IO control push interface

Step 3 Choose one alarm in and mode (N/C, N/O).

Step 4 Tick the disable items, click "Apply" to save settings.

----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 9-28.

Figure 9-28 Motion detection interface

Motion	Dete	ction		
		Channel Enable Motion Detection	[1]Channel01 •	
		Event Actions	n Area 🛗 Schedule	
		Buzzer		
		Push message to APP		
		Pop up message to monitor		
		Full Screen		
		Email		
		FTP		
		PTZ		
		Enable Alarm Out		
		Enable Camera Alarm Out		
		Enable Event Recording		
				Copy Apply

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

Step 3 Enable motion detection alarm.

Step 4 Set **Event Activity**, includes buzzer, push message to APP, pop-up message to monitor, full screen, Email, cloud storage, alarm out (the back panel), channel alarm out (the port of cameras), and alarm record.

Step 5 Click Area to access the motion detection area setting, as shown in Figure 9-29.

Motion Dete	ection		
	Channel	[1]Channel01 *	
	Enable Motion Detection	• •	
Ð	Event Actions	n Area 🛗 Schedule	
	2722-04-25 16:55:46 Mon		
	Sensitivity	Medum •	
			Copy Apply

Figure 9-29 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.
- 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 choose other cameras to copy settings. Click Apply to

save the settings.

---End

9.3.3 Video Loss

Procedure

Step 1 On the **System Setting** screen, choose **Alarm** > **Video Loss** to access the video loss interface, as shown in Figure 9-30.

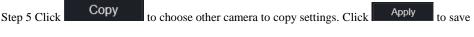
Figure 9-30 Video loss interface



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.



the settings.

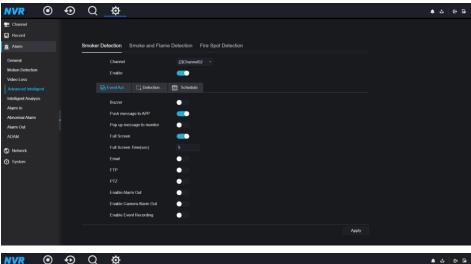
----End

9.3.4 Advanced intelligent Analysis (Only for Some

Models)

Users can set smoker detection, smoke and flame detection and fire spot detection at advanced intelligent analysis interface.

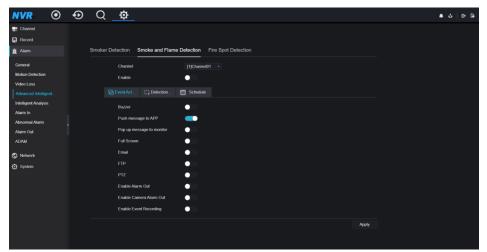
Figure 9-31 Smoker Detection



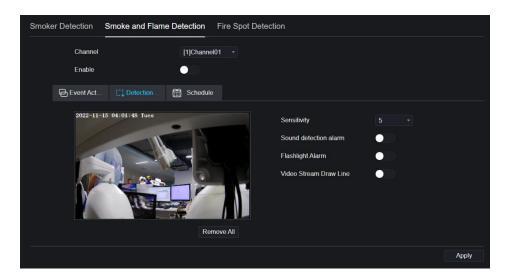
NVR 💿	•• Q <u>\$</u>	4 4 G B
Channel Record	Smoker Detection Smoke and Flame Detection Fire Spot Detection	
General Motion Detection Video Loss Advanced Intelligent Intelligent Analysis Alarm In Abrormal Alarm Alarm Out	Channel p)(Channel2 • Enable • Enable • Event Ad. [1] Dataction. ** Schoolate 2022-11-15 04:01:06 Tures Scinubedy 5 • Scinub detection starm • Fachogst Atom	
ADAM S Network System	Renove Al	
	Asoly	



Figure 9-32 Smoke and flame detection

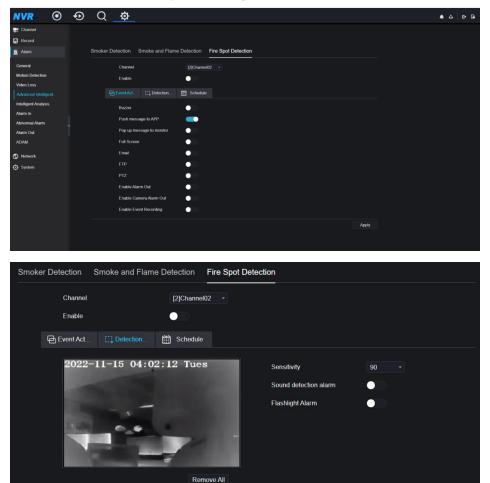


System Setting



Smok	ər De	etec	tion	Sn	noke	and	d Fl	am	e D	ete	ctio	n	Fire	Sp	ot D	eteo	ctior	۱								
		C	hannel							[1]	Cha	innel()1													
		E	nable							•																
	Ð	Eve	ent Act		011 D	etec	tion.																			
	All Sun Mon Tue Wed Thu Fri Sat	17 17 17 17 17 17 17 17 17	2		4		5	8									3			24						
																									Ар	oly

Figure 9-33 Fire spot detection



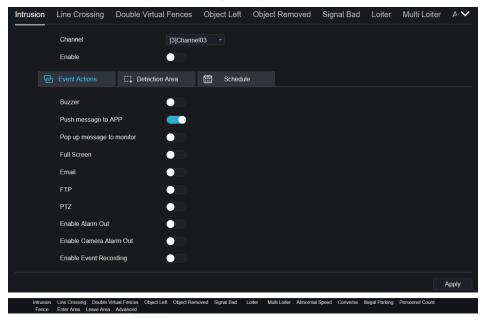
Apply

Smoker D	etec	ction	S	moke	and	l Fla	mel	Deteo	ction	F	ire S	pot D	etecti	on								
	C	hanne	əl					[2]	Chann	el02												
		nable																				
	j ⊑ve	ent Ac	2	:::‡ D 4	etect		8	10 till	cnedu 12		14	16	18	20	22	2						
Sun Mon	4 4		2	4			•				14	10		20			+					
Tue Wed Thu																						
Fri Sat	1 11 1																					
																					Арр	ly

9.3.5 Intelligent Analysis (Only for Some Models)

Procedure

Please refer to chapter 7.4.1 video loss settings, interface displayed as shown in Figure 9-34. Figure 9-34 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 9-35.

Elana	0.25	A 1.00000	:	interface
riguie	9-33	Alam	ш	interface

Alarm In		
Alarm In	[1]Alarm In	
Enable		
Alarm Type	N/O •	
Name	Sensor 1	
Event Acti		
Buzzer		
Push message to APP		
Pop up message to monitor		
Email		
Alarm Out		
Alarm Time(s)(0:Continuous)		
Output ID		
Alarm Record	•	
		Apply

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

Step 3 Enable the button, choose alarm type.

Step 4 Set name, default as 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 6-12.

Figure 9-36 Abnormal alarm interface

Abnormal Alarm					
Enable Abnormal Alarm					
Abnormal Type					
Buzzer	•				
Push message to APP					
Pop up message to monitor					
Email					
Enable Alarm Out					
Alarm Time (sec) (0:Always Alarm)					
Port Number					
				Refresh	Apply

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 camera alarm out.

Figure 9-37 Alarm out

Alarm Out	Camera Alarm Out		
	Port Number	[1]Alarm Out	
	Port Name		
	Valid Signal	Close	
	Alarm Output Mode	Switch Mode	
			Refresh Apply

Figure 9-38 Camera alarm out

Alarm Out	Camera Alarm Out		
	Channel	[1]Channel01	
	Port Number		
	Port Name		
	Valid Signal	Close	
	Alarm Output Mode	Switch Mode	
	Alarm Time(ms)(0:Continuous)		

9.3.9 ADAM

If users want to receive the alarm information at remote distance, you can access the ADAM data acquisition modules to NVR for alarming.

Several ADAM data acquisition modules can be accessed to NVR. The maximum number support of ADAM is the number of channels of NVR supporting.

Figure 9-39 ADAM

NVR O	€	Q	ø					
Channel								
Record								
a Alarm		ADAM						
General			•		IP Address	MAC Address	Status	
Motion Detection			•	• Do 1	192.168.8.156	00d0c9feffff		
Video Loss			•					
Advanced Intelligent			•					
Intelligent Analysis			•					
Varm In			•					
bnormal Alarm			•					
iarm Out			•					
			•					
Mohunde								
Network								
System								
							Search Refresh	Delete

The ADAM is connected to the network which are same segment with NVR's.

Click Search to search the ADAM, click Add to add the online ADAM to list.

When you enable the Remote IO linkage action, choose the corresponded ID (remote channel) and port (the ID of alarm device accessed to ADAM) depend on the actual scene.

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 9-40.

Figure 9	-40 Netw	ork in	terface
----------	----------	--------	---------

IP	PORT	г	
		Network Card Name	Network Ca •
		DHCP	
		IP Address	192.168.32.163
		Subnet Mask	255.255.255.0
		Default Gateway	192.168.0.1
		Obtain DNS Automatically	
		Preferred DNS Server	144.144.144
		Altenate DNS Server	192.168.1.1
			Refresh Apply

Step 2 Choose network card from the drop-down list. Network card I is LAN1, network card II is LAN2, as shown in Figure 9-41.

Figure 9-41 Network card II

IP	PORT			
	Network Card Name	Network Ca *		
	IP Address	192.168.10.253		
	Subnet Mask	255.255.255.0		
	Default Gateway	192.168.10.254		
			Refresh	Apply
			Reliesii	Арріу

Step 3 Click next to IP to enable or disable the function of automatically getting an IP

address. The function is enabled by default.

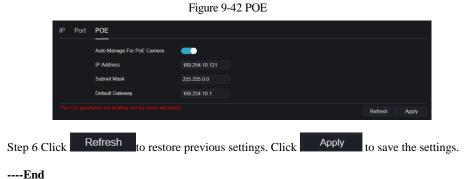
If the function is disabled, click input boxes next to **IP**, **Subnet mask**, and **Gateway** to set the parameters as required.

Step 4 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 5 Set PORT and POE manually, input the information about these.



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 9-43.

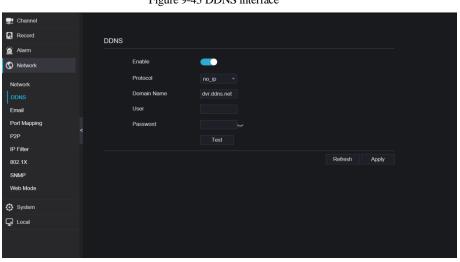


Figure 9-43 DDNS interface

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.

An external network can access an address specified in the DDNS settings to access the NVR. ----End

9.4.3 Email

Procedure

Step 1 Click **Email** in the network interface, choose **Network > Email** to access the E-mail interface, as shown in Figure 9-44

Figure 9-44 Email interface

Refresh Apply

Step 2 Set SMTP server and SMTP server port manually.

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

Step 4 Set E-mail for receiving the alarm message.

Step 5 Set E-mail for retrieving the password.

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

9.4.4.1 Port Mapping

Procedure

Step 1 Click Port Mapping in the network interface, choose Network > Port Mapping to

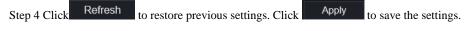
access the UPnP interface as shown in Figure 9-45.

Figure 9-45 Port Mapping interface

NVR	\odot	€	Q		C]	[5]	Ø						
Den Channel													
Record													
📋 Alarm			Port Mapp	ing NAT	Γ Port								
S Network				Port Map	ping Enable								
Network				Mode			Auto						
DDNS				HTTP Po	rt		1239						
Email				Data Por			2737						
Port Mapping P2P				Client Po	rt		30136						
IP Filter													=
802.1X											Refresh	Apply	
SNMP													
Web Mode													
3G/4G													
PPPOE													
System													

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

Step 3 After UPnP is manual, set the Web port, data port and client port manually.

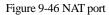


🛄 ΝΟΤΕ

Auto: System perform UPnP automatically. Manual: The ports are distributed by the router. Input them according to the router.

9.4.4.2 NAT port

NAT (Network Address Translation), users can browse the web of camera by NAT port. There are five ports can be assigned to each camera. Input the start port, the system will compute the end port automatically.



🚅 Channel			
Record			
🚊 Alarm	Port Mapping NAT Port		
S Network	Start Port	50002	
	Start Ot	50002	
Network	End Port		
DDNS			
Email	Port range [40001-65534]		
1			
Port Mapping			Refresh Apply
P2P			
IP Filter			
802.1X			
SNMP			
Web Mode			
3G/4G			
PPPOE			
System			

----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 9-47.

Figure 9-47 P2P interface

P2P			
Enable			
Status	Offline		
	011003ADKT7B194K		
App Name	InView Pro 4		
- It is available on App Store and Google Play.		Refresh	Apply

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 installing Inview Pro 4 in mobile phone, run the app and scan the UUID QR code to add it. And then access the NVR while the device is online.

----End

9.4.6 IP Filter

Procedure

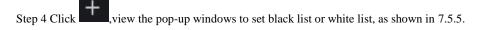
Step 1 Click **IP Filter** in the network interface, choose **Network > IP Filter** to access the IP filter interface, as shown in Figure 9-48.

Figure 9-48 IP filter interface

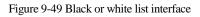
IP Filter					
	IP Filter		(
	Rule Type			Black List 🔻	
	Black List(Following r	network segments are forbidden)		+ -	
		Start IP	End IP	Edit	
				Refre	sh Apply

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

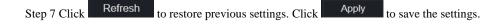
Step 3 Click drop-down list of rule type to choose black list or white list.



Click to delete the list.



Add Ip Segmer	nt		×
Start IP			
End IP			
	Can	cel OK	
Step 5 Set start IP and end IP.			
Step 6 Click Cancel to deny	settings, click	OK to save	e the settings



Black list: IP address in specified network segment to prohibit access. White list: IP address in specified network segment to allow access. 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

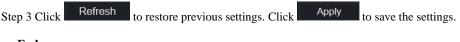
Step 1 Click 802.1X in the network interface, 802.1X interface is displayed, enable the button, as

shown in Figure 9-50.

802.1X				
	Enable	-		
	User			
	Password	1		
			Refresh	Apply

Figure 9-50 802.1X interface

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



----End

9.4.8 SNMP

Procedure

Step 1 Click SNMP in the network interface, SNMP interface is displayed, enable the button

next to SNMPV1, as shown in Figure 9-51.

SNMP		
SNMPV1		
SNMPV2C		
Write Community		
Read Community	a	
Trap Address	192.168.32.79	
Trap Port	16222	
Trap Community		
SNMPV3	—	
Read Security Name	a	
Security Level	priv •	
Auth Algorithm	MD5 •	
Auth Password	•••••	
Encry Algorithm	AES •	
Encry Password		
Write Security Name	b	
Security Level	priv •	
Auth Algorithm	SHA •	
Auth Password	••••••	
Encry Algorithm	AES -	
Encry Password	**** ••••••	
		Refresh Apply

Step 2 Input the information of SNMP (simple network management protocol). there are three types of that function. Users can apply that if need.

Parameter	Description	Setting
SMTP Server Address	IP address of the SMTP server.	[Setting method] Enter a value manually.
SMTP Server Port	Port number of the SMTP server.	[Setting method] Enter a value manually. [Default value] 25
User Name	User name of the mailbox for sending emails.	[Setting method] Enter a value manually.
Password	Password of the mailbox for sending emails.	[Setting method] Enter a value manually.
Sender E-mail Address	Mailbox for sending emails.	[Setting method] Enter a value manually.
Recipient_E- mail_Address1	(Mandatory) Email address of recipient 1.	[Setting method] Enter a value manually.
Recipient_E- mail_Address2	(Optional) Email address of recipient 2.	
Recipient_E- mail_Address3	(Optional) Email address of recipient 3.	
Recipient_E- mail_Address4	(Optional) Email address of recipient 4.	
Recipient_E- mail_Address5	(Optional) Email address of recipient 5.	
Attachment A higher-quality image means Image Quality more storage space. Set this parameter based on the site requirement.		N/A
Transport Mode	Email encryption mode. Set this parameter based on the encryption modes supported by the SMTP server.	[Setting method] Select a value from the drop-down list box. [Default value] No Encrypted

Table 9-1	SNMP	parameters
-----------	------	------------

----End

9.4.9 Web Mode

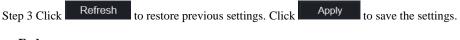
Step 1 Click Web Mode in the network interface, Web mode interface is displayed, as shown in

Figure 5-1.

🛒 Channel	
Record	Web Mode
逆 Alarm	
S Network	HTTPS
Network	Modifying the settings device will restart? Refresh Apply
DDNS	
Email	
Port Mapping	<
P2P	
IP Filter	
802.1X	
SNMP	
Web Mode	
System	
Local	

Figure 9-52 Web mode interface

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



----End

9.4.10 3G/4G

Figure 9-53 3G/4G

3G/4G			
	Enable	•	
	Status	Disconnected	
	Access Mode		
	APN		
	Dial Number		
	Username		
	Password		
	IP Address		
			Refresh Apply

Step 1 The user plugs the modem to NVR.

Step 2 Enable the 3G/4G.

Step 3 When the status is connected, users can set the access mode, AUTO is recommended.

Step 4 If choose other access mode, users should input the parameter correctly.

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

9.4.11 PPPOE

Users can use PPPOE function to manage the NVR conveniently.

Figure 9-54 PPPOE

PPPOE				
	Enable	•		
	Username			
	Password	*		
	IP Address			
			Refresh	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 User use the IP address to access NVR immediately.

9.4.12 POE Status (Only for Some Models)

Users can view the POE status at this interface, as shown in Figure 9-55.

Figure 9-55 POE status

NVR	۲	€	Q Ø		
🛒 Channel					
Record					
🚊 Alarm			POE Status		
S Network					
Network					000 16W 00W
DDNS					
Email					
Port Mapping					
P2P			Æ	ାଛା	
IP Filter					
802.1X			Internet	Router	
SNMP					
Web Mode				Connected	
3G/4G				Disconnected Powering	
PPPOE				Connecting	
POE Status					
2			POE Power Co	nsumption Sum: 1.6W / 1	Aax: 40W
System					

9.4.13 Platform Access

For more detail, please refer to UI interface parameter setting 7.4.13 Platform Access. Figure 9-56 Platform access

Platform Access		
Enable	_	
URL		
Port		
User		
Password		
Encrypt		
		Refresh Apply

9.5 System

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

9.5.1 Device Information

Procedure



on the navigation bar, the device information interface is displayed, as

shown in Figure 9-57.

System Network Channel	Disk Alarm
Device ID	B011003AFEK109U62
Device Name	Device
Device Type	NVR
Model	NVR3808E2-P8E-J
Firmware Version	v4.6.1604.0000.003.0.1.36.0
U-boot Version	1504010C0F18
Kernel Version	15080511183A
HDD Number	
Channels Supported	
Alarm In	
Alarm Out	
Audio In	
Audio Out	

Figure 9-57 Device information interface

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

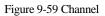
Table 9-2 Device parameters

Parameter	Description	Setting
Device ID	Unique device identifier used by the platform to distinguish the devices.	[Setting method] The parameter cannot be modified.
Device Name	Name of the device.	[Setting method] System Setting > General Modify the device name.
Device Type	N/A	[Setting method]
Model		These parameters cannot be modified.
Firmware version		
HDD volume		
Channel support		

Parameter	Description	Setting
Alarm in		
Alarm out		
Audio in		
Audio out		

Figure 9-58 Network

System Network Channel Disk Alarm	
Status	Online
IP Address	192.168.0.51
Subnet Mask	255 255 0 0
Default Gateway	192.168.0.1
MAC Address	00:1E:A4:00:42:85
DHCP	
Preferred DNS Server	192.168.0.1
Alternate DNS Server	8888
Total Bandwidth	100.00 Mbps



System Net	work Channel	Disk Alarm			
Channel	Name	Status	Video Format	Resolution	Bitrate(kbps)
CH1	Device	Offline	H265/H265	2560*1440/704*576	4096/1024
	Channel12	Online	H265/H265	1920*1080/704*480	4096/1024
CH3	Channel29	Online	H265/H265	1920*1080/704*576	4096/1024
CH4	Device	Online	H264/H264	1920*1080/704*576	2048/1024

Figure 9-60 Disk

System	Network	Channel	Disk	Alarm			
Disk	Capacity	Used		SN		Disk Model	Status
Disk1	278	901G8		WD-WXE1A791JKF4	WDC W	VD21PSRX-89AHTYO	Normal

Figure 9-61 Alarm

System Network	Channel	Disk /	Alarm			
Channel			Name	Mode	Enable	Recording Channel
Local<-1			Sensor 1	N/O		
Local<-2			Sensor 2	N /O		
Local<-3			Sensor 3	N/O		
Local<-4			Sensor 4	N /O		
Locai⇒1				Close		

----End

9.5.2 General

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

Procedure

Step 1 On the System Setting screen, choose System >General to access the general interface,

as shown in Figure 9-62.

Figure 9-62 Basic setting interface

🛒 Channel								
Record								
🖻 Alarm	System	Date And Time Time	e Zone D	ST Sync (Camera Time			
S Network		Device Name)evice				
System		Output Resolution		1920x1080				
Information		Language						
General User Account		Temperature Unit		Celsius				
Security Center							Refresh	Apply
< Logs								
Maintenance								
Auto Reboot								



- 1. Input the device name.
- 2. Choose output resolution from drop list.
- 3. Click Apply 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.

Figure 9-63 System interface

System	Date And Time	Time Zone	DST	Sync Camera Time	
	Device Name		Device		
	Output Resolution		1920>	x1080 -	
	Language				
	Temperature Unit		Celsiu	JS +	
"Modify the o				Rofrosh Ap	ply

3. Select NTP server, date format and time format from drop list.

4. Click Apply to save date and time setting. The device time will synchronize with NTP server time.

- 5. Set the device time manually, as shown in Figure 9-64.
- 6. Click NTP Sync button to disable synchronize time.
- 7. Async date and time interface

Figure 9-64 Date and time

System	Date And Time Time Zone	DST Sync Camera Time	
	Date Format	DD/MM/YY hh:mm:ss *	
	Time Format	24H *	
	Enable NTP		
	NTP Server	time.windows.com *	
	Sync Time Frequency (sec)	86400s	
	Time	25/04/2022 17:41:50	
			Refresh Apply
- nine modin	cation will affect video query		

Step 4 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 5 Set time zone.

Click **Time Zone** to enter the time zone setting interface, as shown in Figure 9-65. Time zone setting interface

Figure 9-65 Time zone

System	Date And Time	Time Zone	DST																									-	5	3	yı	n	IC	; (С	an	n	e	r	a		īr	ne																		
	Time Zone		(GMT	IT+(۴	r+		1		1	1		H	(Ó	Ó	Ó	0	0	0	0	Ó	0	Ő	Ő	0	Ď	K		0)0		D	Du	blir			20	Jir	nb	ų	gt	h, I	n	da	n														
																																																							Refr	esh		A	pp	ly .	

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 6 Set DST.

1. Click DST to enter the DST setting interface, click DST button to enable, as shown in Figure 9-66. The button is disabled by default.

Figure 9-66 DST setting interface

Enable Daylight Saving Tir	ne						
Start Time	Mar	Last one	Sun				
End Time	Oct	Last one	Sun	1:00			
Offset Time	1 Hour						

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 9-67 Sync camera time

System	Date And Time	Time Zone	DST	Sync Camera Time	Ð				
	Enable Sync								
	Sync Time Freque	ncy (sec)	3600s						
								Refresh	Apply

Enable sync camera time, the cameras of NVR management will be showing the same time. Set the frequency of checks (minimum 10s).

Step 7 Click	Apply	to save the l	DST setting.	Click	Refresh	to return to p	orevious
setting.							
End							

9.5.3 User Account

You can create new user accounts to manage the device.

9.5.3.1 Add User

Procedure

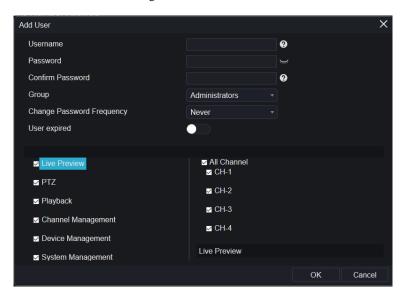
Step 1 On the System Setting screen, choose System >User to access the User interface, as

shown in Figure 9-68.

Figure 9-68 User interface

🛃 Channel					
Record					
🚊 Alarm		Adv.Setting	Phone Number Allowed		
S Network	_				
System		ID	Username	Group	Operate
		1	admin	Super admin	۷ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ
Information					
General					
User Account					
Security Center					
Logs					
Maintenance					
Auto Reboot					
					Add
					Aud

Step 2 Click **Add** to add a new user, as shown in Figure 9-69. Figure 9-69 Add user



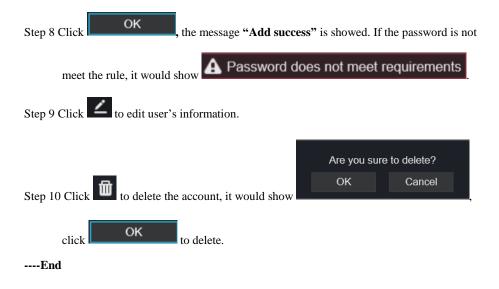
Step 3 Input username, password and confirm password.

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

Step 5 Assign the privilege to the user.

Step 6 Enable the expire date to set the new user's authority time.

Step 7 Select channels to manage.



9.5.3.2 Adv.Setting

Procedure

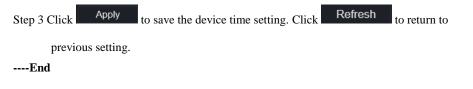
Step 1 On the System Setting screen, choose System > User > Adv. Setting to access interface,

as shown in Figure 9-70.



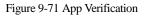
🛫 Channel		
Record		
🚊 Alarm	ser Adv.Setting	Phone Number Allowed
S Network	Enable Dr	Double Authentication
System		
		Refresh Apply
Information		
General		
User Account		
Security Center		
Logs		
Maintenance		
Auto Reboot		

Step 2 Enable the **Password double authentication**. If the user want to playback video, he need input another username and password to authenticate.



9.5.3.3 App Verification

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



User	Adv.Setting	App Verification					
			-				
			ode	Status	Re	mark	
					×		
			Security Code				
			Remark(optional)	ок	Cancel		

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 9-72.

Figure 9-72 Password interface

Password	Secure Email	Secure (Question				
	Old Password			***			
	New Password			0			
	Confirm Password						
						Refresh	Apply

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



Valid password range [6-32] characters.

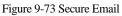
At least 2 kinds of numbers, lowercase, uppercase or special character contained.

```
Only special characters are support ! @#\&*+=-\%\&"'(),'...;<>?^{-[]}
```

----End

9.5.4.2 Secure Email

The secure email can receive the verification code of NVR, if user forgot the password accidentally.



Password Carlos	Password	Secure Email	Secure Ques	tion			
Email Address							
Refresh Apply		Email Address					

----End

9.5.4.3 Secure Question

If the user forgets the password and answers the security question correctly, the user can change the password to log in to the NVR..

Password	Secure Email	Secure C	Question			
	Password					
	Question one Question one answer Question two Question two answer		The brand and model of your favorite car			
			Your favorite team			
	Question three		Your favorite city			
	Question three answe	er				
	at least 1 characters for the up to 32 characters for the				Refresh	Apply

----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 9-74.

1000000						
Channel						
Record						
Alarm	System Log Ever	nt Log				
Network						
System	Start 24/04/2022	17:49:39 End 25/04/2022 17:49:39	Type Operation	Log -	Search Export	
nformation	D	Start Time	Channel	Log Type	Information	
Seneral		25/04/2022 17:06:53		Logout	[admin] 192.168.32.199 logo	đ
Jser Account		25/04/2022 17:05:19		Login	[admin] 192.168.32.199 login	
ecurity Center		25/04/2022 17:05:18		Logout	[admin] 192.168.32.199 logou	đ
		25/04/2022 17:05:18		Login	[admin] 192.168.32.199 login	
laintenance		25/04/2022 15:53:25		Login	[admin] 192.168.0.157 login	
uto Reboot		25/04/2022 15:32:03		Logout	[admin] 127.0.0.1 logout	
		25/04/2022 15:02:40		Login	[admin] 127.0.0.1 login	
		25/04/2022 15:02:00		Logout	[admin] 127.0.0.1 logout	
		25/04/2022 14:40:35		Login	[admin] 127.0.0.1 login	
		25/04/2022 13:10:17		Logout	[admin] 127.0.0.1 logout	
		25/04/2022 12:56:10		Login	[admin] 127.0.0.1 login	
		25/04/2022 12:39:20		Logout	[admin] 127.0.0.1 logout	
		25/04/2022 12:32:43		Login	[admin] 127.0.0.1 login	
		25/04/2022 42/22/20			Fadmint 400 480 0 467 leanut	

Figure 9-74 System log 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

Procedure

Step 1 On the **System Setting** screen, choose **System >Logs > Event** to access logs interface, as shown in Figure 9-75.

	8		8		
🛒 Channel					
Record					
🚊 Alarm	System Log Event Log				
S Network					
System	Start 24/04/2022 17:50:26	End 25/04/2022 17:50:26	Type All -		Search Export
	ID	Start Time	0 1		la fa ann a tha n
Information	IB	Start Time	Channel	Log Type	Information
General		25/04/2022 17:50:23	Channel05	Motion Detection	Channel05
User Account		25/04/2022 17:49:09	Channel05	Motion Detection	Channel05
Security Center		25/04/2022 17:48:47	Channel05	Motion Detection	Channel05
Logs		25/04/2022 17:41:03	Channel05	Motion Detection	Channel05
Maintenance		25/04/2022 17:37:29	Channel05	Motion Detection	Channel05
Auto Reboot		25/04/2022 17:37:02	Channel05	Motion Detection	Channel05
Auto Rebool		25/04/2022 17:33:55	Channel05	Motion Detection	Channel05
		25/04/2022 17:32:07	Channel05	Motion Detection	Channel05
		25/04/2022 17:31:06	Channel05	Motion Detection	Channel05
		25/04/2022 17:29:06	Channel05	Motion Detection	Channel05
		25/04/2022 17:28:16	Channel05	Motion Detection	Channel05
		25/04/2022 17:28:01	Channel05	Motion Detection	Channel05
		25/04/2022 17:25:15	Channel05	Motion Detection	Channel05
	<< 1/92 >>				Every page show 20 -

Figure 9-75 Event log interface

Step 2 Set start and end time from calendar.

Step 3 Select event type from drop-down list.

Step 4 Click Search to acquire log information.

Step 5 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 9-76.

Figure 9-76 Maintenance interface

Ν	laintenance				
		â	0	â	
	Reboot	Update	Reset	Cloud Update	
				_	
Step 2	Click Reboot, th	he pop-up mes	sage will show	v you, click	OK to reboot.
			Upda	e Please select upgr	ade file
Step 3	Click Update, th	he message sho	OWS Please close the w	indow after the upgradel	, choose software from
	specific locatio	n to update.			
			Click '	OK' to reset	
Sten 4	Click Reset, the	non-un messa	OK	Cancel	shows to you, click
Step 4	chek Keset , the	pop-up messa			shows to you, eller
	OK to	reset.			

Step 5 If the device is online, and the cloud server has the software, click the **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 9-77.

Figure 9-77 Auto restart

🛒 Channel	
Record	
🚊 Alarm	Auto Reboot
S Network	Enable Auto Reboot
System	Reboot Time Per Day - 0:00 -
Information General User Account Security Center Logs Maintenance Auto Reboot	Refresh Apply

Step 2 Select one type of restart time from drop-down list.

Step 3 Click	Apply	to save settings.	Click	Refresh	to return to j	previous setting.
End						

9.6 Local (Supplied for IE Browser)

Set the image download path for snapshot and the record download path for record files in the download configuration interface.

This function is only used for IE browser.

Procedure

Step 1 Click Local Download Config in local interface, as shown in Figure 9-78.

Figure 9-78 Local interface

👥 Chann	nel						
Record		Downlo	ad Config				
🚊 Alarm							
S Netwo	nk		Image download path	C:\Users\Public\Docur	Browse		
System	m		Video download path	C:\Users\Public\Docur	Browse		
🖵 Local						Refresh	Apply
Downloa							

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.

Disk Brand	Туре	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	4000G/5900RP	NVR25 Series /NVR 26

Table 10-1 Disk specification

			00	M/ 64MB/SATA	Series /ADR33 Series
			00		/ADR36 Series
		3T	ST3000VX0	3000G/5900RP	NVR25 Series /NVR 26
			00	M/64MB/SATA	Series /ADR33 Series
					/ADR36 Series
		4T	ST3000VX0		NVR25 Series /NVR 26
			10		Series /ADR33 Series
					/ADR36 Series
		1T	ST31000528		NVR25 Series /NVR 26
			AS		Series /ADR33 Series
					/ADR36 Series
		6T	ST6000VX0		NVR25 Series /NVR 26
			001		Series /ADR33 Series
					/ADR36 Series
		3T	ST3000VX0	3000G/5900RP	NVR25 Series /NVR 26
		-	10	M/64MB/SATA	Series /ADR33 Series
					/ADR36 Series
		8T	ST8000VX0		NVR25 Series /NVR 26
			002		Series /ADR33 Series
					/ADR36 Series
	Enterprise	6T	ST6000VN0	6000G/7200RP	NVR25 Series /NVR 26
	level		011	M/128MB/SATA	Series /ADR33 Series
			-		/ADR36 Series
Toshiba	Monitoring	1T	DT01ABA1	1000G/5400	NVR25 Series /NVR 26
	level		00V	RPM	Series /ADR33 Series
				/32MB/SATA	/ADR36 Series
WD (Western	Monitoring	4T/6T/2T/1	WD41PSRX	4000G/5400RP	NVR25 Series /NVR
Digital)	level	Т		M/64MB/SATA	26Series /NVR 36Series
					/ADR33Series
					/ADR36Series
		2T	WD20EJRX	2000G/5400RP	NVR25 Series /NVR
			-89AKWYO	M/64MB/SATA	26Series /NVR 36Series
					/ADR33Series
					/ADR36Series
		10T			NVR25 Series /NVR
					26Series /NVR 36Series
					/ADR33Series
					/ADR36Series
		6T	WD62EJRX		NVR 36Series
			-89B2VY0		
		10T	WD102EJR		NVR 38 Series /NVR
			X-		36Series /ADR33Series
			89YN0Y0		
		18T	WD180EJR		NVR 38 Series /NVR
			X-89AFLY0		36Series
		8T	WD84EJRX		NVR 38 Series /NVR
			-89B2TY0		36Series

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)