Network Video Recorder (NVR) User Manual

Issue

V4.5.1.1

Date

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About This Document:

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

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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

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

Forward only 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 operations 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 function	
3	V 4.1.3	Perfect interface, add 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 timely playback Add multiple clicks to enlarge Add user lockout Remove the upper right corner to display the alarm warning Add the view of the latest alarm information, modify the manual alarm	

	Modify quick navigation content	
	Preview channel and modify network parameter function on IPC side	
	Support for copying to some or all channels	
	Remove the full screen function	
	Add background backup	
	Add video dual authentication	
	Intelligent motion detection	
	Add the color to distinguish the video type, increase the video type search	
	Add sound switch	
	Add instant playback	
	Remove the timeline function	
	Increase intelligence analysis	
	Increase test DDNS function	
	Increase test mail function	
	Modify the time precision to half an hour, remove the recording plan master switch	
	Add hardware information	
	Added video dual authentication and boot wizard configuration function	
	Add alarm log	
	Add interval update profile	
V 4.2.1	Add the NTP synchronization interval and add the manual NTP synchronization interval.	
	Add access to thermal imaging cameras and display IPC product models	
	Remove auto hide	
	Add the patrol route and line sweep function	
	Add upgrade IPC, restart IPC, restore factory IPC	
	Increase the selection of primary and sub stream backups	
	Add click playback button to play video	
	Add UI display granular IPC intelligence analysis	
	V 4.2.1	V 4.2.1parameter function on IPC sideSupport for copying to some or all channelsRemove the full screen functionAdd background backupAdd video dual authenticationIntelligent motion detectionAdd the color to distinguish the video type, increase the video type searchAdd sound switchAdd instant playbackRemove the timeline functionIncrease intelligence analysisIncrease test DDNS functionIncrease test mail functionModify the time precision to half an hour, remove the recording plan master switchAdd hardware informationAdded video dual authentication and boot wizard configuration functionAdd alarm logAdd interval update profileV 4.2.1Add access to thermal imaging cameras and display IPC product modelsRemove auto hideAdd upgrade IPC, restart IPC, restore factory IPCIncrease the selection of primary and sub stream backupsAdd Click playback button to play video Add UI display granular IPC intelligence

		1
	Add upgrade device features	
	Add the timing restart function	
	Add U disk upgrade display progress bar	
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	
	Optimized recording expiration time input mode is editable	
	Increase the city after each time zone	
	Increase face recognition	
	Add P2P server	
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 ball machine	
	Remove the video type switch from the scene	
	Add RAID	
	Add S.M.A.R.T	
	Add formatting (fat32 and NTFS)	
	Support event video quick download backup	
	Add event video backup	
	Add the full screen of the bomb and send the screenshot	
		Add U disk upgrade display progress barV 4.2.4Increase U-boot and kernel version display Increase P2P status display Increase signal type display Increase POE icon display Increase SSL access IPC, special models supportOptimize username and password saving methods Increase batch backup Increase fixed point playback Increase hard disk alarm Optimized recording expiration time input mode is editable Increase face recognition Add P2P serverV 4.3Add pattern unlock Add mailbox reset password Increase the secure question reset password Add 1+7 split screen Add channel information display Add 3D ball machine Remove the video type switch from the scene Add formatting (fat32 and NTFS) Support event video quick download backup Add event video backup

		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 3G/4G modem provide Internet service.	
		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 and face detection functions.	
		Add IP conflict and internet disconnected alarm.	
10	V4.5.1	Add disk capacity calculation	202005
		Add viewing network traffic	
		Add alarm output function	
		Add IO control push message alarm	
		Add the log of alarm events	
		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 count	
11	V4.5.1.1	Add mask detection configuration	
		Increase personnel counting configuration	
		Optimize the camera to manually add camera channels	
		Optimize record schedule	
		Optimized auto sequence	

Increase NAT port settings	
Increase network packet capture	
Added advance settings to monitor channel when logout	
Increase license plate library import and export to cameras	
Detailed alarm events and logs	
Real-time video and playback video add capture function	

Symbol Conventions

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

Symbol	Description
	Alerts you to a high risk hazard that could, if not avoided.
	Alerts you to a medium or low risk hazard that could, if not avoided, result in moderate or minor injury.
	Alerts you to a potentially hazardous situation that could, if not avoided, 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 plug with the power outlet with a protective ground connection.
- The appliance is coupled to the port unit. Keep it at an easy 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.

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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, support for mouse shortcut operation, remote management and control functions.

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 video server networks, 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. It is not necessary to set up visual and audio lines to the monitoring point, and the construction is simple, and the wiring cost and maintenance cost are 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 device through online upgrade.

1.2.2 Real-time Monitoring

It has a VGA (Video Graphics Array) port and an HDMI (High Definition Media Interface) port. It can be monitored by a monitor screen or monitor, and supports simultaneous output of VGA and HDMI.

1.2.3 Playback

Each channel can independent real-time recording, and play 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 (such as through alarm and timing 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 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 playback 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 freely set.

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

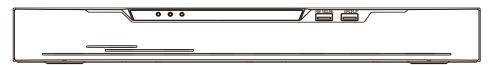
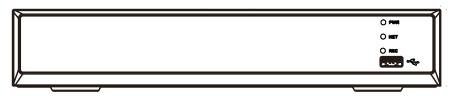


Table 2-1 Front panel function

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 supports connected to an USB mouse.
BACKUP	Only supports connected to U disk

Figure 2-2 One disk model



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

Table 2-2 Front panel function

Figure 2-3 Eight disk model



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 supports connected to an USB mouse

Figure 2-4 WiFi model

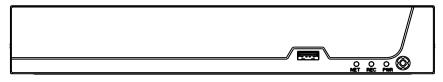


Table 2-4 Front panel function

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 One disk 4 POE

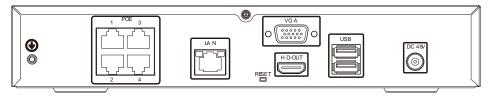


Figure 2-6 Two disks 8 POE

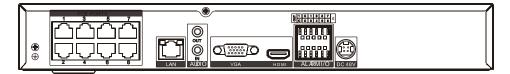


Table 2-5 Real panel function

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
Ę	GND
DC48V	Connected to an external power adapter

Figure 2-7 One disk 8 POE

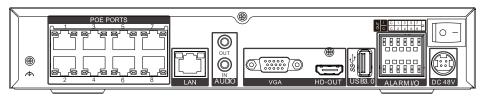
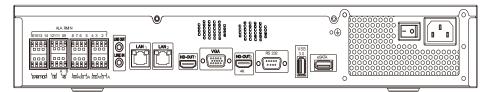


Table 2-6 Real panel function

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 supports connected to 3.0 U disk
Alarm I/O	Alarm input/Alarm output
Ę	GND
DC48V	Connected to an external power adapter

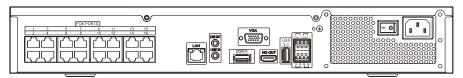
Figure 2-8 Four disks/ eight disks



Port	Description
	Alarm input and alarm output./RS485
LINE OUT /	Audio output / Audio input
LINE IN	
LAN1 /LAN2	RJ 45 10/100/1000 Mbps adaptive Ethernet interface
VGA	Video output interface
HDMI (1/2)	
RS232	Standard RS232 serial communication interface of the device
USB 3.0	Only supports connected to 3.0 U disk
E SATA	External hard disk interface
- •	Power switch
(±)	Safe ground screw of the device
8	AC 110V/220V power input interface

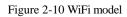
Table 2-7	Real panel function	L
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Figure 2-9 Four disks 16 POE



Port	Description
POE port	POE network interfaces

	Alarm input and alarm output./RS485
LINE OUT /	Audio output / Audio input
LINE IN	
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 supports connected to 3.0 U disk
E SATA	External hard disk interface
- •	Power switch
÷	Safe ground screw of the device
	AC 110V/220V power input interface



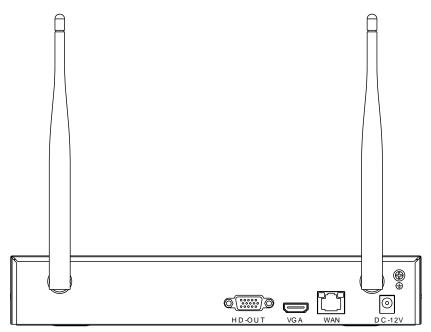
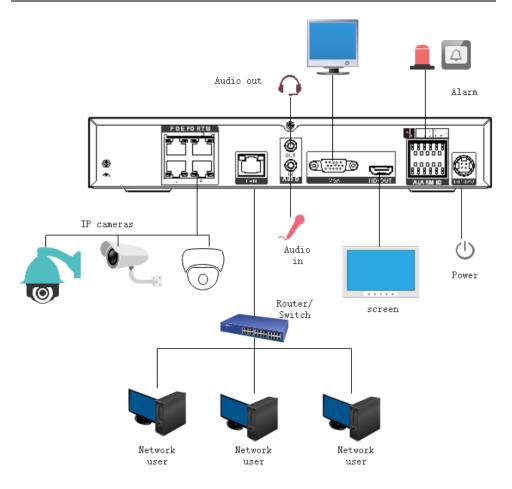
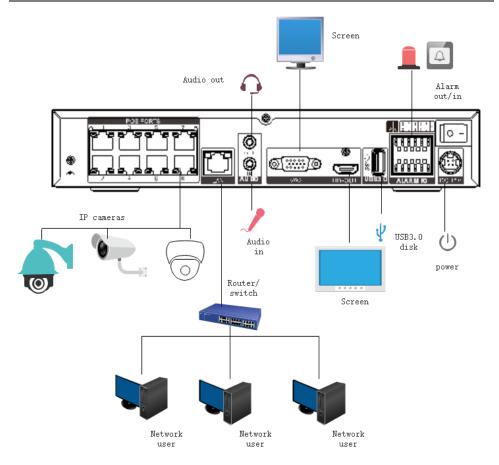
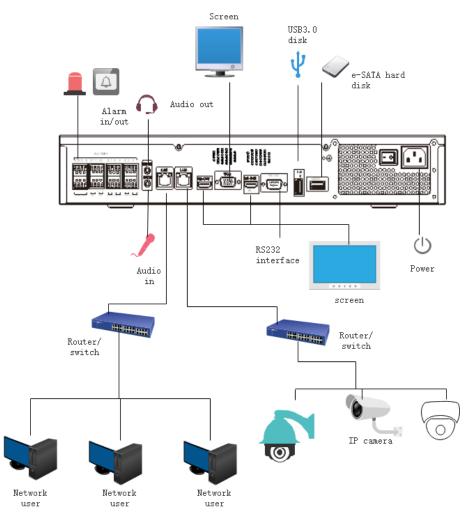


Table 2-9 Real	panel function
----------------	----------------

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.
- In the case of product upgrade, the information in this document is subject to change without notice.

2.5 Installation Environment and Precautions

Installation environment

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

Item	Description
Electromagnetism	The NVR conform to national standards of electromagnetic radiation and does not cause harm to the human body.
Temperature	-10° C to $+45^{\circ}$ 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 product.

Table 2-10 Installation environment

Item	Description
Power consumption	<15W (excluding the hard disk)

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. User should use good brands of hard disk so that the NVR can operate stably and reliably, please refer to chapter 10 Disk Compatibility

Other precautions

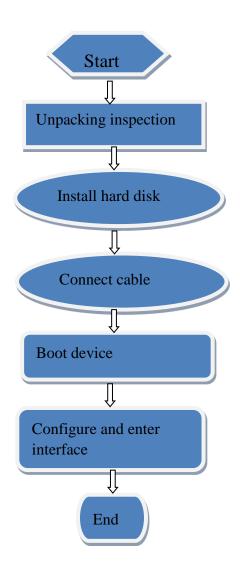
- Clean the NVR with a piece of soft and dry cloth. Do not use chemical solvents.
- Do not place objects on the NVR.

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 ensure which no damage.
- Step 2 Install the hard disk and fix the hard disk on the device bracket.
- Step 3 Connect the device cable.
- Step 4 After ensuring that the device is connecting correct, connect the power and turn on the device.
- Step 5 Configure the initial parameters of the device. The boot wizard contains network configuration, add cameras, and manage disks. For details, please refer to the chapter of Wizard .

3.2 Unpacking Inspection

When the transportation company sends network video recorder to you, please check the following table for unpacking. If you have any questions, please contact our sales technicians.

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 Do not tear or discard, otherwise warranty service is not guaranteed. When you call the company for sales personnel calls, you will 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,	Is the connection loose?

Table 3-1 Unpacking inspection

and motherboard	If it is loose, please contact the company's after-sales
	personnel.

3.3 Install Hard Disk

When installing for the first time, first check if the hard disk is installed. It is recommended to use the company recommended hard disk model 9 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.

Use a reasonable hard disk capacity according to the recording requirements.

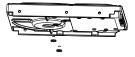
3.3.1 Install One or Two Hard disks

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

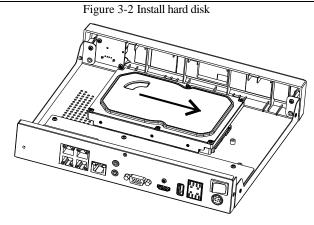
Step 2 Take out the screws and silicone cushion, route the screws through the silicone cushion,

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

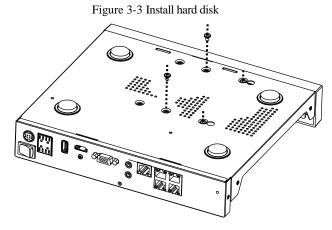
Figure 3-1 Installing the hard disk screws



Step 3 Route the screws through the hole on the base, push the hard disk to the appropriate position on the left, as shown in Figure 3-2.



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

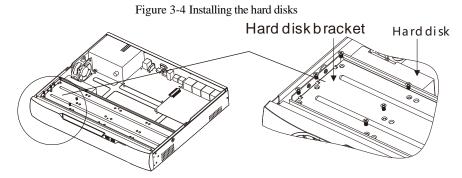


Step 5 Insert the hard disk data cable and power cable, then put on the upper cover and fasten the fixing screws.

3.3.2 Install Four Hard disks

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

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, then fix the screws for hard disk (install the hard disk near the fan first), as shown in Figure 3-4.



Step 3 Install other hard disks following step 2.

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

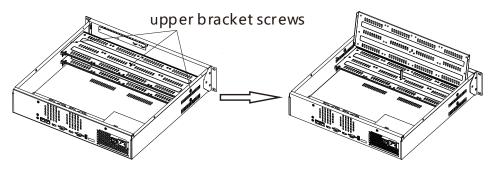
3.3.3 Install Eight Hard disks

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

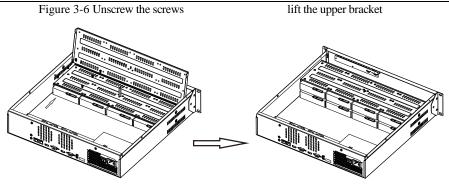
Step 2 Unscrew the screws on both sides and the upside of the upper bracket respectively, lift the

upper bracket, as shown

Figure 3-5 Unscrew the 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 upper bracket and screw it, then install other hard disks in upper layer following step 3, as shown in the right figure in Figure 3-6.



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

4 Basic Operations

4.1 Power on the Device



- 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 the NVR in such environments.

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

Figure 4-1 Real-time video screen

		- +		NVR	NVR
NVR	A	ctivation		RVA	NVA
	Language	English admin		NVR	NVR
	Enter a new password Confirm the new password			N/S	NVR
NVR	Enter channel de fault passw – Valid password range (6–5			NVA	NVR
	At least 2 kinds of number Only these special charact Channel default password	ers are supported I@#\$*+		NVA	NVR
NVR NVR				NVR	NVR
	NVR NVR	NVZ	NVR	NVR	NVR

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 the user login 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.

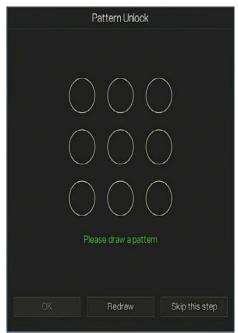
Figure 4-2 Activation

Activa	tion		
Language	English	~	
Username	admin		
Enter a new password			
Confirm the new password			
Enter channel default password			
– Valid password range [6–32] cha	aracters.		
- At least 2 kinds of numbers, lowercase, uppercase or special .			
– Only these special characters are supported !@#\$*+==_%&```.			
- Channel default password limit is	s not empty		
OK			

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.
Channel password	The NVR channel connection password is the camera login password.

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



After the pattern is unlocked, the system defaults to the pattern unlock login. If the pattern unlock is not set, you will need to input the password to login.

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

Set the Email to receive the verification code if user forget the initial password to create new password, 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 give the temporary password to login to the device..

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

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

Figure 4-5 Set question

Question (Reco	very the password)	
Question one	The brand and model of \checkmark	
Question one answer		
Question two	Your favorite team 🗸 🗸	
Question two answer		
Question three	Your favorite city 🗸 🗸	
Question three answer		
- Please enter at least 4 chara	icters for the answer	
– Please enter up to 32 charac	ters for the answer	
ОК	Skip this step	

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

Question 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 most funning/worst design you have ever seen

Question 2: Your favorite team

Question 3: Your favorite city

The three question options cannot be set to the same issue.

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

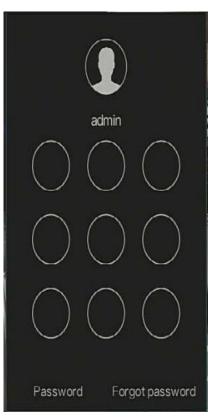
If you do not want to set a password question, you can click Skip this step.

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 RPM off the power switch to disconnect the NVR from the power supply.

4.4 Login to the System

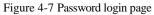
Step 1 Login to the device, there are two modes to login if you set the pattern unlock, as shown in Figure 4-6.





Step 2 On the NVR login page, click "Password" to at pattern unlock interface. If user don't set the pattern unlock it will show password to login interface directly, select the language, as shown in Figure 4-7.

	Login	
٢	English 🗸	
	admin 🗸	
A		¥
a Sector a construction	Login	
	Forgot password	



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, seller send the verification

code to user and set new password to login .

2. Answer the secure question to create new password.

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

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

Figure 4-8 Modify default password

	Modify default password	
New password Confirm password		
	Modify password	
– Valid password range	(6-32) characters.	
	bers,lowercase,uppercase or special character contai s are supported !@#\$*+=	ned.

----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



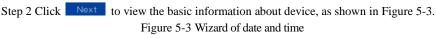
Figure 5-2 Wizard of network

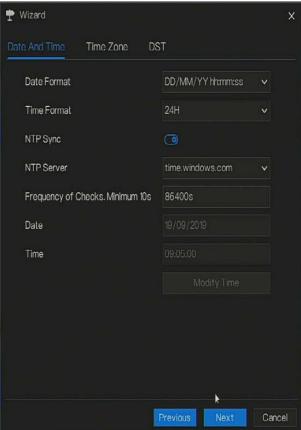
Step 1 Set the parameter, the details please refer to Table 5-1.

Table 5-1 Network	parameter
-------------------	-----------

Parameter	Description	Configuration
DHCP	Enable DHCP, the device will obtain the IP address from the DHCP server.	[Setting method] Enable
IP Address	Set the IP of device when DHCP is disable	[Setting method] Manual

Parameter	Description	Configuration
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,	[Setting method]
	he must set that	Manual
		[Default value]
		192.168.0.1
Obtain DNS	N/A	[Setting method]
automatically		Enable
DNS 1	N/A	[Setting method]
		Manual
		[Default value]
		192.168.0.1
DNS 2	N/A	[Setting method]
		Manual
		[Default value]
		192.168.0.1
UPnP	Auto: device to obtain Web port,	[Setting method]
	data port and client port.	Choose type from
	Manual: user set the port manually.	drop-down list
		[Default value]
		Auto
Web Port	N/A	[Setting method]
Data Port	N/A	When UPnP is
Client	N/A	manual, you need to set these.





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



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.

W	lizard					×
Came	ro					
	Channel		P	Model	Protocol	Operate
	CH1					+
	CH2					+
	CH3					+
	CH4					+
			Delet	e A	dd Devices	🛱 Refresh
	li		Model	Protocol	Firmwa	re Version
٥	192.168.0.	153:30001	IPS5921MD	Private	t3.6.0824	.1004.3.0.8.1.0
۵	192.168.0.	201:30001	SN-debug	Private	t3.6.0825.10	004.3.0.11.10.T6
	192.168.0.	184:30001	IPC5921HA	Private	t3.6.0804.1	1004.3.0.6.22.0
	192.168.0.	122:30001	IPV5950ED	Private	v3.5.0804.	1004.3.0.32.3.1
Use	ername	admin	Pas	sword **	*** ,	, Add
				Previo	us Nex	t Cancel

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.

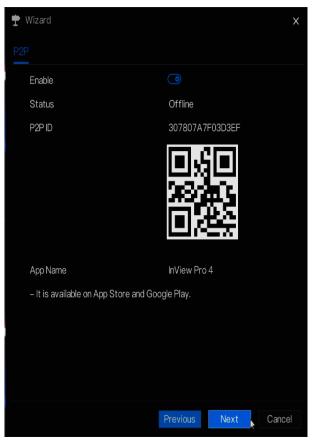
Figure 5-6 Wizard of disk

1	W	izard					×
	Disk						
		Disk	Capacity	Used	SN	Disk Model	Status
	۵		2 TB	7 GB	Z1E2LCPB	ST2000VX000	Normal
							Format
					Previous	Next	Cancel

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

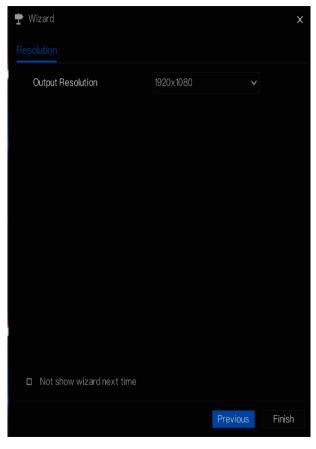
Step 7 Click Next to enter wizard of P2P, as shown in Figure 5-7





- 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



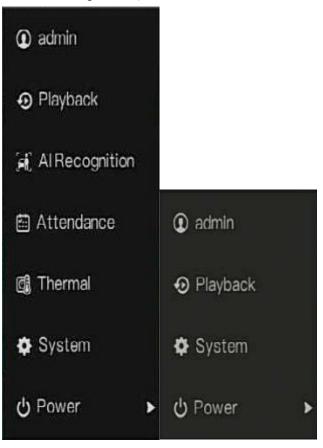
Step 10 Click **Finish** to end the wizard, tick the **Not show this window next time**, wizard would not show at next time. Reopen wizard at **system >user >advance setting**.

6 Quick Navigation

After the NVR operation screen is displaying, move the cursor to the down most position of the NVR screen. The NVR floating menu bar is displaying.

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

Figure 6-1 Quick home menu



In the middle of 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 described as follows:



: Layout. Click the icon, the real-

time video window switch between the single-screen mode and multi-screen mode. Click on the right of screen splitting format and choose the channels to view the video.

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 icon, the audio setting screen is displaying, which you can choose the

channel and adjust the volume.

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

information.

A main menu quick toolbar is display 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 6-3.

Figure 6-3 Main menu quick toolbar



Ü

: Manual alarm, click the icon, user can set different channels, choose alarm out, the

window shows in Figure 6-4.

Figure 6-4 Manual alarm

Manual Alarm				
Channel	Alarm Ou	t	Start	Stop
Local		~	Start	Stop
Channel08		~	Start	Stop
Channel14		~	Start	Stop

Alarm message, click icon would show pop-up message window, as shown in 6.1.

6.1 Alarm message

	Pop up message	to monitor X
Channel	Туре	Start Time
Channel14	Motion Detection	27/04/2020 11:02:32
Channel14	Motion Detection	27/04/2020 11:02:22
ChannelB	Video Loss	27/04/2020 11:02:18
Channel14	Motion Detection	27/04/2020 11:02:07
Channel14	Motion Detection	27/04/2020 11:01:55
Channel14	Motion Detection	27/04/2020 11:01:17
Channel14	Motion Detection	27/04/2020 11:00:01
Channel14	Motion Detection	27/04/2020 10:59:41
Channel14	Motion Detection	27/04/2020 10:59:30
Channel14	Motion Detection	27/04/2020 10:59:08
Channel14	Motion Detection	27/04/2020 10:58:44
Channel14	Motion Detection	27/04/2020 10:58:01

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

out.

(i): Information, click icon and the genreal information would show, like network, system, channel and disk, as shown in Figure 6-5.

Network Sys	tem Channel	Disk	Х
Status	Online		
IP Address	192.168.32.162	2	
Subnet Mask	255.255.0.0		
Default Gateway	192.168.32.25	4	
MAC Address	00:1C:27:11:9F	:32	
DHCP	ON		
Preferred DNS Serv	er 202.96.128.86		
Altenate DNS Serve	r 202.96.134.13	3	
Total Bandwidth	1000.00 Mbps	3	
Used Bandwidth	16.84 Mbps		

Figure 6-5 Information

6.2 Real Time Video Bar

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



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

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

 \times is the time bar of playback.

Audio: open or close the audio.

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

II **-**®

Figure 6-6 PTZ adjust screen





User adjust direction of camera.

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

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



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



: Image, click the icon ,as shown in Figure 6-7. Select scene, and drag cursor to adjust value of brightness, sharpness, contrast and saturation.

Figure 6-7 Camera picture parameter

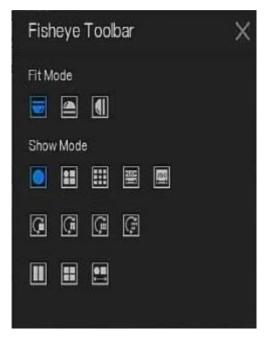


: Two way audio. The NVR and carmera can talk to each other.

o: snapshot panorama if the USB disk is plugging in the NVR.

E fisheye, click to switch the fisheye modes, as shown in Figure 9-30.

Figure 6-8 Fisheye



Modify device parameters, remote channel is based on cameras (human body temperature have two remote channels, fisheye camera have four remote channels) as shwon in Figure 6-9.

Channel Name	Channel10
PAddress	192 . 168 . 1 . 83
rotocol	Private 🗸
Port	30001
Jsername	admin
assword	****
lemote Channel	CH-1 v

Figure 6-9 Modify device parameter

6.3 Playback

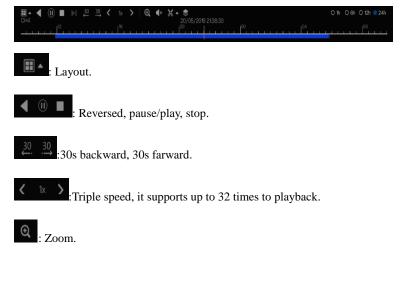
Playback refers to playing back a video.

Click **Solution** in the quick navigation bar to access the playback screen, as shown in Figure 6-10.

Alarm Record

Figure 6-10 Playback screen

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



I Audio.

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

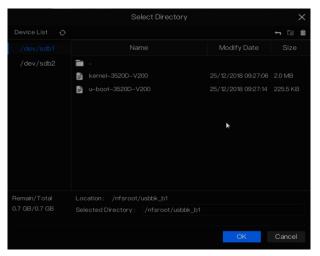
icon again.

The backup type shows, click save, then saving the file pop-up windows would show as Figure

6-11 . Click OK to save.

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

Figure 6-11 Select directory



۲

: Batch backup, click the icon to backup multi-channels, as shown in Figure 6-12.

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.

[1]: snapshot panorama if the USB disk is plugging in the NVR.

Figure 6-12 Batch backup

٠	Batch Backup			Х
	Save to			
	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
1h 0 6h 0 12h	24h			

Type of time bar, recording video can show

6.3.1 Time Search

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

Operation Description

Click On the quick navigation bar to access the search screen, as shown in Figure 6-13.



Figure 6-13 Time Search screen

Operation Steps

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

on the quick navigation bar to access the picture grid screen, as shown in

Figure 6-14.

Q. Search The Search Petra Ord Event Bakup X Q. In Connect In Conne In Connect In Connect</td

Figure 6-14 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 day from calendar.
- Step 3 A day are dividend to 12 grids, two hours is one grid.
- Step 4 Select a required thumbnail, double-click it or right-click it and choose Play from the shortcut menu to play the video.
- ----End

6.3.3 Event

Click **E** on the quick navigation bar; choose **Event** at title to access the alarm event screen, as shown in Figure 6-15

🔊 Playback	Time Sear	ch Picture Grid	Event Backup				
🗾 🙆 Select All		Start Time	Channel	Туре	Information	Opera	ate
z 👩 [1] Channel01	1	27/04/2020 11:56:31	Channel14	Motion Detection	Channel 14	Ð	Ø
🛛 🙆 [2] Chamel02		27/04/2020 11:56:10	Channel14	Motion Detection	Channel14	Ð	٢
🗹 👩 [3] Channel03		27/04/2020 11:55:10	Channel14	Motion Detection	Channel14	Ð	٢
🔽 💿 [4] Channel04		27/04/2020 11:55:08	Channel05	Video Loss	Channel05		
🔽 👩 (5) Channel05		27/04/2020 11:54:59	Channel14	Video Loss	Channel14	Ð	٩
[6] Channel06		27/04/2020 11:54:58	Channel08	Video Loss	Channel08	Ð	0
[7] Channel07	. 7	27/04/2020 11:54:34	Channel14	Motion Detection	Channel14	Ð	٩
Start Time		27/04/2020 11:54:13	Channel14	Motion Detection	Channel14	Ð	Ø
26/04/2020 11:56:51	9	27/04/2020 11:54:02	Channel14	Motion Detection	Channel14	Ð	٩
End Time 27/04/2020 11:56:51		27/04/2020 11:53:32	Channel14	Motion Detection	Channel14	Ð	•
🗹 Alarm In		27/04/2020 11:53:10	Channel14	Motion Detection	Channel14	Ð	Ø
🗹 Camera Alarm In	12	27/04/2020 11:52:59	Channel14	Motion Detection	Channel14	Ð	Ð
Motion Detection	13	27/04/2020 11:52:48	Channel14	Motion Detection	Channel14	Ð	Ð
🗹 Video Loss	14	27/04/2020 11:52:38	Channel14	Motion Detection	Channel14	Ð	¢
Intelligent Analysis Abnormal Alarm	15	27/04/2020 11:52:27	Channel14	Motion Detection	Channel 14	Ð	•
🖬 Automa Alam	16	27/04/2020 11:52:16	Channel14	Motion Detection	Channel 14	• •	•
Search		27072020110210		K 1/275 X		uble click to pla	

Figure 6-15 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, motion alarm, block alarm, video loss and intelligent analysis.

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.

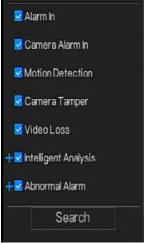


: play the recording video.



B : backup the recording video.

Quick Navigation



user can tick the detail alarm to show.

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

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

User can choose the accurate alarm events to search.

----End

6.3.4 Backup

Click on the quick navigation bar, choose Backup at title to access the backup screen, as shown in Figure 6-16.

Figure 6-16 Backup screen

Q	Search					
ID		End Time				
1				n /nfsroot/usbbk_b ▶	25%	, D

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

----End

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

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 **S** to enter the human face comparison interface, choose the cameras with face recognition function to play live video, the snapshots of camera will compare with the templates which has been registered in libraries, the result shows as in Figure 6-17.

Figure 6-17 Human face comparison Al Recognition Select All 2019-11-05 16:39 30 Tues-🗆 🙆 [1] Channel01 2 [2] Channel02 [3] Channel03 🗆 👩 [4] Channel04 [5] Channel05 [6] Channel06 [7] Channel07 [8] Channel08 h [9] Channel09 🗆 👩 [10] Channel 10 🗆 🞯 [11] Channel11 🗆 🙆 [12] Channel 12 🗆 🙆 [13] Channel 13 🛛 👩 [14] Channel14 🗆 👩 [15] Channel15 🗆 🙆 [16] Channel 16 🗆 👩 [17] Channel 17 🗆 🙆 [18] Channel 18 🗆 🙆 [19] Channel 19

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

Snapshot in real time video, put the cursor on picture such as **+ N**, 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.

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 6-18.

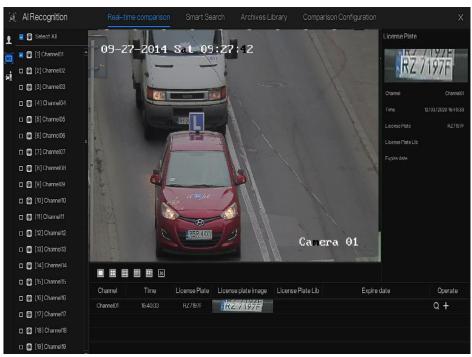


Figure 6-18 Vehicle license plate

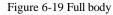
Click the "+" can add the snapshot to license plate library immediately.

6.4.1.3 Vehicle and Full Body

At real time comparison interface, click the **1** to enter the vehicle license plate comparison interface, choose the AI recognition cameras to play live video, the snapshot of camera will compare in libraries, the snapshot to vehicle and full body will show at the bottom of page, the result shows as in Figure 6-19.

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6.4.1.4 Real-time Body Temperature Filter



At AI recognition, click to enter the real-time body temperature filter, user can choose

human body temperature cameras to show, it will show the temperature recording and over temperature snapshots. Click full-screen, the channel list and snapshots statistics will be hidden.

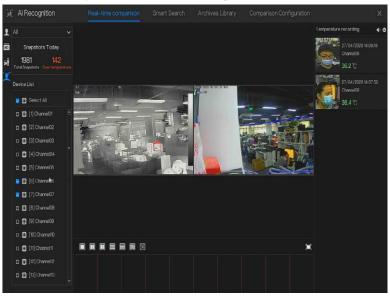
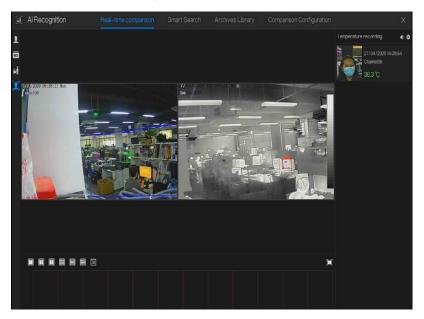


Figure 6-20 Real-time body temperature filter

Figure 6-21 Full screen



If user enable the mask detection, the results will show wear mask or no mask.

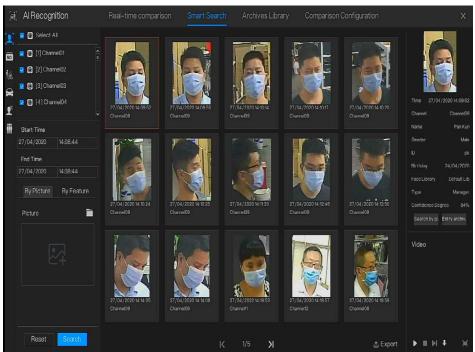
6.4.2 Smart Search

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

body temperature.

6.4.2.1 Human Face Search

Figure 6-22 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 choose 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 detail picture can be used to search or add to library.
- Step 7 Click play button of video to play the recording of snapshot, click "Backup" to backup the recording videos.

Figure 6-23 Back up

	Backup	X
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	

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

Export Type	Export Pictures	~	
Save to	Export Pictures	•	
	Export video		

Figure 6-24 Export

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

Snapshot in real time video, put the cursor on picture such as **+ 2**, 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.

6.4.2.2 Vehicle License Plate Search Figure 6-25 Vehicle License Plate search

(el)	AlRecognition	Real-time comparison Smart Search Archives Library Comparison Configuration	
2	🔽 🙆 Select All	Searchirosult	쇼 Export
0	🗹 🎯 [1] Channel01 🔷	Channel Time License Plate License plate image License Plate Lib Expire date	Operate
6	👱 🙆 [2] Channel02	Channel10 27/04/2020 14:16:13 RNI31TR	+ 🖸 🕼
	🔽 🙆 [3] Channel03 📑	Channel10 27/04/2020 14:16:16 RZ9440F RZ9240F Default Lib Never expire	+ 🔊 🕼
	🔽 👩 [4] Channel04	Channel10 27/04/2020 14:16:23 R24791	+ 🔊 @
	🗹 🙆 [5] Channel05	Channel10 27/04/2020 14:16:24 KR200VX 1217/200V24 Default Lib Never expire	+ 🖸 🕼
1	🔽 🙆 [6] Channel06	Channel10 27/04/2020 14:8:25 LIGA0BRONYRH	+ 🔊 @
	🔽 🙆 [7] Channel07	Channel10 27/04/2020 14:16:28 RZ5615K	+ 🖸 🖟
	💆 👩 [8] Channel08	Channel10 27/04/2020 14:16:33 RZEIGRX RZE 15RX	+ 🛛 🕼
	💆 👩 [9] Channel09	Channel10 27/04/2020 14:16:36 RZ3958J	+ 🖸 🕼
	💆 👩 (10) Channel10	Channel 10 27/04/2020 14:6:40 RZ9903F	+ 🕀 🕼
	🗷 👩 [11] Channel 11	Channel10 27/04/2020 14:16:44 X6VI	+ 🛛 🕼
	Start Time	Channel10 27/04/2020 14:645 27201 27-2014	+ 🖸 🕼
	27/04/2020 14:16:06	Channel10 27/04/2020 14:16:47 1740054	+ 🖸 🖟
E	End Time	Channel10 27/04/2020 14:0:48 LZ49954	+ 🔊 @
	27/04/2020 14:46:06	Chamel10 27/04/2020 14:65:0 RLA12730 4RM20422460	+ 🔊 🖟
	License plate(optional)	Channel10 27/04/2020 14:652 PZY325	+ 🖸 🕼
		Channel 10 27/04/2020 14:655 RZELW90 ARXIE LW90 Default Lib Never expire	+ 🔊 @
	Reset Search	ζ 1/34)	

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 backup the video.

Step 7 Click "Export" to export the result.

6.4.2.3 Full Body Search

F	AlRecog	nition	Real-time comparis	son Smart Searc	h Archives Libra	ary Comparison	Configuration		×
1	🔽 👩 Select	All		T annual in	anterio de la composición de				1
NO	🗾 🗊 [1] Char	nel01			任	s	0	7.1	4
36	🗾 🙆 [2] Cha	nnel02	14			N P	i 🧃		
2 01	🗾 👩 [3] Cha	nnel03						ise i	
	🔽 👩 [4] Cha	mel04	27/04/2020 14:18:45	27/04/2020 14:18:54	27/04/2020 14:17:08	27/04/2020 14:17:18	27/04/2020 14:17:17	Time 27/04/202	20 14:16:45
1 °	🔽 🙆 [5] Cha	nnel05		Channel11	Channel09		Channel09		Channel09
Ŵ	🔽 🙆 (6) Cha	nncl06	REPART		cent			Gender Ag n	Male
	🔽 👩 [7] Cha	nnel07	TA .		13			Cycling	No
	🗾 👩 [8] Cha	mel08			N.				
	🗾 🙆 [9] Cha	nnel09	1						
	Start Time		27/04/2020 14:17:23 Channel09	27/04/2020 14:17:39 Channel09	27/04/2020 14:17:42 Channel09	27/04/2020 14:17:45 Channel09	27/04/2020 14:18:05 Channel09		
	27/04/2020	14:16:06							
	End Time		NP-	I GI				Video	
	27/04/2020	14:46:06		1717		3		VIGEO	
	Gender		5				1		
	Al		No.	1	114	54			
	Cycling		27/04/2020 14:18:20	27/04/2020 14:18:25	27/04/2020 14:16:32	27/04/2020 14:18:33	27/04/2020 14:18:42		
	Cycling	Noncycle				Channel09	Channel09		
	Reset	Search		I	< 1/32)		소 Export	► = H +	×

Figure 6-26 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.

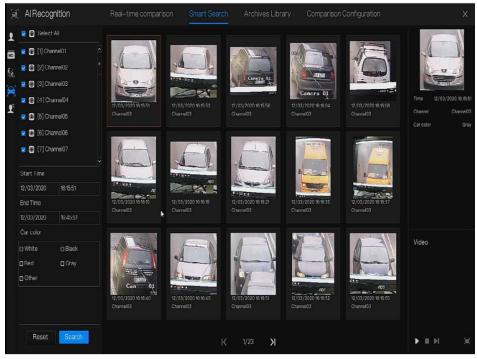
Step 3 Set the gender, click cycling or no cycling.

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 backup the video.
- Step 7 Click "Export" to export the result.

6.4.2.4 Vehicle Search

Figure 6-27 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 backup the video
- Step 7 Click "Export" to export the result.

6.4.2.5 Body Temperature Search Figure 6-28 Body temperature search

			0	•	^		
(si)	AlRecognition	Real-1			Archives Library	Comparison Configuration	
1	🗾 💿 Select All	Searchre	sult				☆ Export
NO	🗹 🎯 [1] Channel01 🔶		Capture Photo	Library Photo	Information	Temperature	Capture Time
‰	👱 🙆 [2] Channel02 🛛 🗧						
9	🗾 👩 [3] Channel03				Channel06 Stranger		27/04/2020 14:18:58
r of	🔽 👩 [4] Channel04						
←	🗹 🖸 (5) Channel05				Channel06	00750	07/01/0000110000
m	🔽 🖸 [6] Channel06				Stranger	36.7 °C	27/04/2020 14:23:26
ł	🔽 👩 [7] Channel07						
	🔽 👩 [8] Channel08				Channel06	36.3 °C	27/04/2020 14:24:18
	Start Time				Stranger		
	27/04/2020 14:16:06				Channel06		
	End Time 27/04/2020 14:46:06				Stranger		27/04/2020 14:25:03
	Person Type		Sar K				
					Channel06	36.3 °C	27/04/2020 14:26:22
	Temperature Type				Stranger		
			1-415				
	ID(optional)		100		Channel06 Stranger	36.9 °C	27/04/2020 14:33:43
	Reset Search					ж	

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.

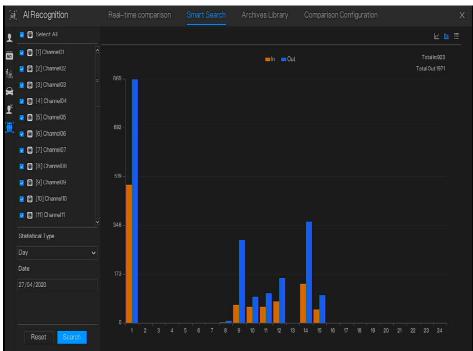
Step 3 Choose the person type, temperature type, input ID optionally.

Step 4 Click "Search" to search the temperature.

Step 5 Click "Export" to export the result

6.4.2.6 Personnel Count

Figure 6-29 Personnel count



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 **E** to view the data by different manners.

6.4.3 Archives Library

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

6.4.3.1 Face Library

1	AlRecognition	Real-1			Smart Se	arch /		Compar	ison Configuration	
1	Face Library	+ Add	X Del	lete 🛃	Import d	Export	O Refresh 🕼	Filter		≡ 88
NO	□ Select All		Name	Gender	Birthday		Face Library	Туре	Expire date	Operate
	💆 Default Lib			Male	28/11/2019	73	unknow	Student	Never expire	∠ 🛍 Q
	C) app			Male	28/11/2019		unknow	Student	Never expire	<u>∠</u> 🖬 Q
	□nvr			Male	28/11/2019		unknow	Student	Never expire	∠шα
	ztechnology			Male	28/11/2019		unknow	Student	Never expire	∠ 🖬 Q
	🔽 image			Male	28/11/2019		unknow	Teacher	Never expire	∠ 🛍 Q
	engineering			Male	28/11/2019		unknow	Student	Nover expire	∠ 🖬 Q
	Platform			Male	28/11/2019		unknow	Student	Never expire	∠ ∰ Q
				Male	28/11/2019		unknow	Student	Never expire	∠ 🖬 Q
	🛃 unknow			Male	28/11/2019		unknow	Student	Never expire	∠∎Q
	👱 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	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	2∎0
				Male	28/11/2019	89	unknow	Student	Never expire	∠ û Q
				Male	28/11/2019		unknow	Student	Never expire	∠ 🛍 Q

Figure 6-30 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 the all person in library.

Click "Filter" to filter the all persons in library, as shown in Figure 6-31.

Figure 6-31 Filter

Gender	All	v
ID		
Туре	All	v
Picture	All	~

Click operate icon to edit or delete the chosen person.

6.4.3.2 License Plate Library

Figure 6-32 License plate library

[#] Al Recognition		Real-time co	omparison	Smart	Search	Archives Libra	ry Comparis	son Configuration		×
License Plate Lib	+ +	Add X	Delete	🕁 Import	쇼 Export	O Refresh				E
Select All			ense Plate	Licen	se Plate Lib	Ex	xpire date	Remark	Oper	ale
Default Lib			3H54768	De	efault Lib	Ne	ver expire		∠ ₫ (<u>م</u>
	- mpor بي	ibrary e Library t From Camera rt To Camera	£0452K	De	rfadt Lib	Ne	ver expire		2 🖬 🤇	2
						K 1/	1)			

Click "+" to add license plate library.

Click "Add" to add plate to library.

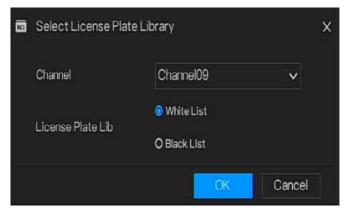
Tick the plate , click "Delete" to delete the license plate.

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.

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



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

Chann	el	Channel09	~
		🙆 White List	
Licens	se Plate Lib	O Black List	

6.4.4 Comparison Configuration

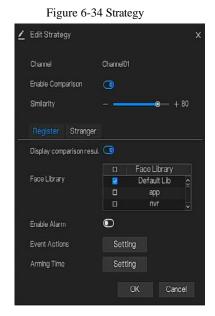
The comparison function is only for AI cameras, please refer to actual cameras.

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

6.4.4.1 Face Comparison

At face comparison interface, user can set different channels' strategy, such as similarity, display comparison result, face library, enable alarming, event action, arming time, as shown in Figure 6-33.

阏	AlRecognition	Real-time comparison	Smart Search	Archives Library	Comparison Configu	ration	×
1	Channel	Register Detect Library	Strang	er Detect Library		Similarity	Operate
NO	Channel11	Default Lib	Do	fault Lib		80%	^ ^
Ľ	Channel 12	DefaultLib	De	fault Lib			۷
	Channel 13	Default Lib		fault Lib			۷
	Channel14	Default Lib	De	fault Lib			۷
	Channel 15	Default Lib	De	fault Lib		80%	۷.
	Channel16	DefaultLlb	De	fault Lib			۷.
	Channel17	Default Lib	De	fault Lib			۷.
	Channol 18	Default Lib		fault Lib			۷
	Channel 19	Default Lib	De	faultLib			۷
	Channel20	DefaultLib	De	fault Lib			۷
	Channel/21	Default Lib	De	fault Lib			۷
	Channel22	DefaultLib	De	fault Lib			<u> </u>
	Channel23	Default Lib	De	fault Llb			۷
	Channel24	Dofault Lib	Do	fault Lib			۷
	Channel25	Dofault Lib		fault Lib			۷
	Channel26	DetaultLib		faultLib			۷
	Channel27	Detault Lib		fault Lib			۷
	Channel28	DefaultLib	De	fault Lib			۷
	Channel29	Default Lib	De	fault Lib		80%	۷.



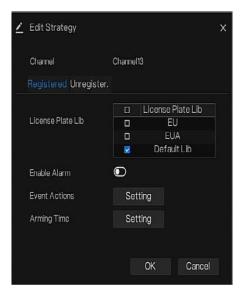
6.4.4.2 License Comparison

At license plate interface, use 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 6-35.

(eff.)	AlRecognition	Real-time comparison	Smart Search	Archives Library	Comparison Configuration		X
1	Channel	Registered detection library		Unregistered detection	nlibrary	Operate	
	Channel14	Default Lib		Default Lib		۷	î
Ľ	Channel 15	DefaultLib		DefaultLib		۷	
	Channel 16	Default Lib		Default Lib			
	Channel17	Default Llb		DefaultLib			
	Channel18	Default Lib		Default Lib			
	Channel 19	Default Lib		Default Lib			
	Channel20	Default Lib		Default Lib		۷	
	Channol21	Dofault Lib		Default Lib		۷	
	Channel22	DefaultLib		DefaultLib		۷	
	Channel23	DetaultLib		DefaultLib			
	Channel24	Default Lib		Default Lib			
	Channel25	Default Lib		DefaultLib			
	Channel26	Default Lib		Default Lib			
	Channel27	Default Lib		Dofault Lib		۷	-
	Channel28	Default Lib		Default Lib		۷	
	Channel29	DefaultLib		DefaultLib		2	
	Channel30	DefaultLib		DefaultLib			
	Channel31	Default Lib		DefaultLib			
	Channel32	Default Lib		Default Lib		2	Ļ

Figure 6-35 License comparison

Figure 6-36 Strategy



6.4.4.3 Temperature Comparison



At comparison configuration interface, click **configuration** to enter the temperature configuration, as shown in Figure 6-37.

Figure 6-37 Temperature comparison

	Al Recognition Real-time comp			x
₽	Temperature Configuration Schedule Link	age		
I	Abnormal temperature measurement alarm	•		
	Low temperature threshold (0.1 – 100)	34.0		
	High temperature threshold (0.1 - 100)			
	Normal temperature (0.1 – 100)			
				Apply

At temperature comparison interface, user can set low temperature threshold, high temperature threshold, 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.

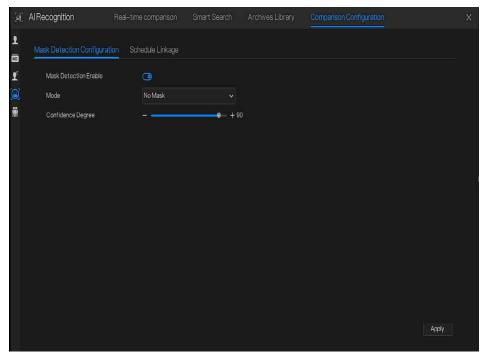
Figure 6-38 Schedule linkage

Ħ	Al Recognition F	Real–time comparisoi	n Smart Search	Archives Library		
₽ 100 100	Temperature Configuration	Schedule Linkage				
1	Enable Alarm	G				
	Event Actions 🛗 Sci	hedule				
	Push message to APP	🗆 Email	Buzzer			
	Pop up message to monito	or 🗆 Full Screen	∃ Cloud Storage			
	Alarm Out	٢				
	Alarm Time(s)(0:Continuous					
	Output ID					
					Apply	

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 6-39 Mask detection configuration



Enable mask detection, choose the mode(no mask or wear mask). Set the confidence degree, the default value is 90.

Quick Navigation

Figure 6-40 Schedule linkage

(si)	Al Recognition Rea	al–time comparison	Smart Search	Archives Library		
₽ №	Mask Detection Configuration	Schedule Linkage				
Ľ	Enable Alarm	۲				
	Event Action Construction School Popup message to APP Popup message to monitor Alarm Time(s)(0:Continuous) Output ID	⊡Email ⊡B	uzer Ioud Storage		Αρρίγ	

Enable the alarm, the real-time comparison can show if one the wear mask or not.

Choose event actions, and set the schedule.

Click "Apply" to save the settings.

6.4.4.5 Personnel Count Configuration

Figure 6-41 Personnel count configuration

.	AlRecognition	Real-time comparison	Smart Search	Archives Library	Comparison Configuration	Х
₽	Personnel Count Configura	ation Schedule Linkage				
Ľ	Personnel Count Enable	O				
۲	OSD Enable					
.	Counting Clear Interval	1Day				
	Set Correction Value					
	Alarm Threshold					
	Alarm Interval	10s				
	OSD displayed on the sec	condary screen				
						Apply

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

Click "Apply" to save the settings.

Quick Navigation

Figure 6-42 Schedule linkage

(si)	AlRecognition	Real-time compariso	on Smart Search	Archives Library	Comparison Configuratio	1	Х
1	Personnel Count Configuratio	on Schedule Linka	ge.				
Ľ	Enable Alarm	C	C				
۲	🖶 Event Actions 🛛 🛗 So	chedule					
	☑ Push message to APP □ Pop up message to monit	□ Email or	□Buzzer				
	Alarm Out						
						Apply	

Set schedule linkage action to alarm.

6.5 Attendance

The function only be used for NVR2604E1-P4C-J and NVR2608E1-P8C-J

6.5.1 Attendance Data

Click to enter attendance data interface, as shown in Figure 6-43.

🖾 Atten	dance	Attendance D	Data Attenda	ance Managemen	t				×
Attendance Li	Attendance Library Attendance Summary								순 Export
🕨 🔽 Default	Lib	job Number	Name	Department	Required Times	Actual Times	Absence	Late	Early Leave
🕨 🗆 app		zhazhahui	zhazhahui	DetaultLib					
▶ 🗆 nvr		= ganzhiwei	Gan Zhiwei	Default 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	Dofault Lib					
▶ 🗆 ipc		 zhongzebin 	Zhong Zebin	Default Lib					
Time		lipulin	Li Pulin	Default Lib					
Today	~	, panjianing	Pan Jianing	Default Lib					
Custom time p	ariod	lidongliang	LiDongliang	Default Lib					
		liuming	Liu Ming	Default Lib					
Slart Dale		zhanglong	Zhang Long	Default Lib					
End Date		kanglonggen	Kang Longgen	Dofault Lib					
Search Type		wangshuang	Wang Shuang	Default Lib					
Attendance S	iummary 🗸	zhongzebin	Zhong Zebin	Default Lib					
		linrendi	Lin Rendi	Default Lib					
Reset	Separch				K 1	/6 🔀			

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, user can set attendance rule, library and check point, as shown in Figure 6-44.

🗎 Attendance	Attendance Data Attendance Management	
> Attendance Rule Settings	Attendance Rule Settings	
Attendance Library	Working Time: Start-work time 09:30 End-work time 11:00	
▷ Attendance Check Point S.	Workday Settling: ⊡Sun IIIMon IIITue IIIWed IIThu IIIFri ⊡Sat	
	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 not check in when starting work, mark as absent	
	-If employee does not check out when ending work, mark as absent	
	Apply	

Figure 6-44 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.

Attendance	Attendance Data	Attendance Management			×
▷ Attendance Rule Settings	Attendance Library				
> Attendance Library.	Face Library 👩	Library Management		Attendance Library	
> Attendance Check Point S.	21tems 21ens 20efault1b app anvr technology image engineering platform ipc unknow lest hardware download		» Add « Delete	12 Items Default Lib app onvr technology office engineering platform ipc ourknow lest herdware download	
×					Apply

Figure 6-45 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 Database 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 6-46.

Quick Navigation

Figure 0-40 Attendance check point setting					
Attendance	Attendance Data				
▷ Attendance Rule Settings	Attendance Check Poi	nt Settings			
> Attendance Library	Channel	Attendance Library	Similarity	Enabled	Operate
> Attendance Check Point S.	Channel01	Default Lib;app,nvr;technology;image;engineering;platform;ipc;unknow;test;hardw.	80%	Start	^ ^
	Channel02		80%	Start	۷
	Channel03		80%	Start	2
	Channel04		80%	Start	۷
	Channel05		80%	Start	ڈ '
	Channel06	Default Lib;app;nvr;technology;image;engineering;platform;ipc;unknow;test;hardw.	80%	Start	۷
	Channel07			Start	۷
	Channel08	Default Lib; app;nvr; technology; image; engineering; platform; ipc; unknow; test; hardw.		Start	۷
	Channel09		80%	Start	۷
	Channel10		80%	Start	۷.
	Channel11		80%	Start	۷.
	Channel 12		80%	Start	۷.
	Channel13		80%	Start	۷
	Channel14			Start	۷
	Channel15		80%	Start	۷.
k	Channel16		80%	Start	۷.,

Figure 6-46 Attendance check point setting

Step 2 Click *L* to edit check point setting, as shown in Figure 6-47

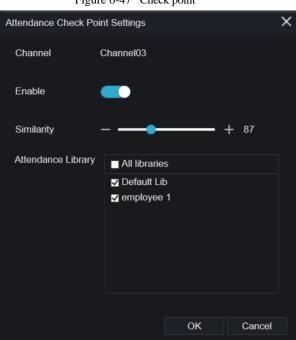


Figure 6-47 Check point

- 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

The thermal temperature function is only carried by 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 6-48. Figure 6-48 Temperature Parameters interface

🕼 Thermal	Setting Inquire		×
▶ Temperature Parameters			
▷ Temperature Area	Channel		
▷ Schedule Linkage			
▷ Advanced			
		0	
		\bullet	
		Hightest Temperature	
			Сору Арріу

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

Table 6-1 Temperature parameters

Parameter	Description	Setting
Open Temperature	Enable temperature measure.	
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

Quick Navigation

k Navigation		User M
Parameter	Description	Setting
Area Temperature	The display position of	[Setting method]
Display Mode	temperature information on the	Select a value from the
	live-video image.	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,	[Setting method]
	there are nine colors chosen.	Enable or disable
		[Default value]
		disable
Area Temperature	There are three types of area	[Setting method]
Туре	temperature.	Select a value from the
		drop-down list box.
		[Default value]
		Highest Temperature
Measure Mode	There are two types measure	[Setting method]
	modes.	Select a value from the
		drop-down list box.
		[Default value]
		General
Display Alarm	N/A	[Setting method]
Area		Enable or disable
		[Default value]
		disable

Parameter	Description	Setting	
Area Alarm	N/A	[Setting method]	
Interval		Enter a value manually	
		ranges from 1 to 1800.	
		[Default value]	
		10	

Figure 6-49 Advanced parameter

Temperature Parameters		
Channel		
		Copy Apply

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.
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.

Table 6-2 Advanced parameters

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 6-50

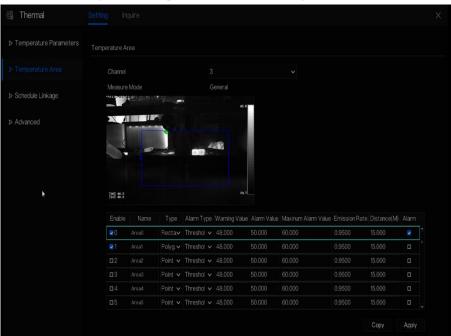


Figure 6-50 Temperature area and alarm configuration

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

Quick Navigation

Parameter	Description	Setting
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

Parameter	Description	Setting
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
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 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 selected.
- 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. Remove the tick of 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.

----End

6.6.3 Schedule Linkage

Operation Procedure

Step 1 Choose Thermal > Schedule Linkage

The Schedule Linkage page is displayed, as shown in Figure 6-51.

Figure 6-51 Schedule Linkage

🕼 Thermal	Setting Inquire			Х
		B Schedule		
			Сору Ар	

Step 2 Tick the output channel.

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

Step 4 Set schedule linkage.

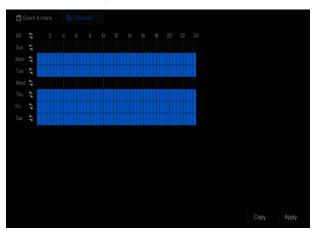


Figure 6-52 Schedule

Method 1: Click left mouse button to select any time point within 0:00-24:00 from Monday to Sunday as shown in Figure 6-51.

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 space 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 6-53.

Figure 6-53 Advanced

G Thermal	Setting Inquire		×
▷ Temperature Parameters			
▷ Temperature Area			
▷ Schedule Linkage			
▷ Advanced			
			Apply

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.

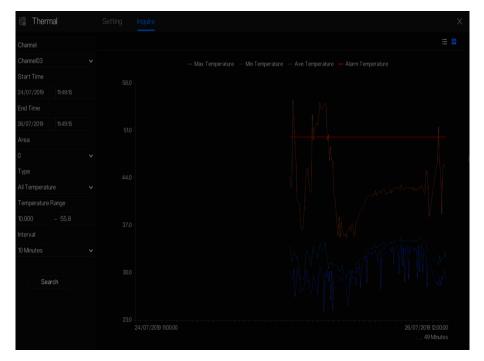
----End

6.6.5 Inquire

Operation Procedure

Step 1 Choose Thermal > Inquire to enter the inquire interface, as shown in Figure 6-54.

Figure 6-54 Inquire



Step 2 Choose the 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.

6.7 Channel Information

Click the will show as Figure 6-55, tick the Channel or Encode, the information will show in live video screen.

Figure 6-55 Channel information



6.8 Main Menu

Right-click on UI screen, the main menu as shown in Figure 6-56. The main menu includes

Channel, Record, Network, Alarm and System.

Figure 6-56 NVR main menu

	Channel			Rec	cord			Networ	k
R	Camera Sensor Setting Privacy Zone Microphone Smart	Encode OSD ROI Human The. Intelligent T.		Stora S.M.A Disk I	rd Schedule ige Mode .R.T Detection I Storage	Disk RAID Disk Calc.	5	Network DDNS Port Mappin IP Filter 3G/4G	802.1X Email g P2P SNMP
م م	Alarm General Video Loss Alarm In Alarm Out	Intellige	Detection Int Analysis nal Alarm		ţ	System Information Security Center Logs			User Auxiliary Scre. Auto Restart

----End

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

7.1 Channel Management

IP cameras can directly connect to input channels of the NVR by plugging in POE port. When IP cameras are insufficient, the NVR can automatically searches for and adds IP cameras or manually add cameras in the same Local Area Network (LAN).

Channel management includes add or delete **Camera, Encode, Sensor Setting, OSD, Privacy Zone, ROI, Microphone, Human Thermal, 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.

System		Record	Alarm N	letwork System			
	Camera	Protoco	l Management				
Encode		Channel		Model		Firmware Version	0 Operate
		• CH1	192.168.32.185:300	001 IPC57/80HDN/F/1		v3.5.0807.1004.3.0.32.1	1 🔟 🖤 🚔
Sensor Setting			192.168.10.132:300	01 IPS57/20MDR/ZS.			∕∠∎…
SD			192.168.10.133:300	01 IPS57/30MDL/ZS.	Private	v3.5.0804.1004.3.0.33.4	.0 ∠ 🖬 …
		• CHN					₀ ∠∎…
rivacy Zone		O CH5					
					Ado	Devices Delet	le Batch Update
	Online	Device	Start S	earch			
				Model	Protoco	Firm	
		192.168.99.	14:30001 IPS	57/30BDR/ZSD30/28	Private	t3.6.08	04.1004.3.0.8.12.0
		192.168.70.1		C81031-W		v 3.5.0819	.3900.172.0.31.0.105
		192.168.70.1	76:30001	C81041-W		v3.5.0819	
		192.168.10.2	49:30044 IPR	57/08ALDN/Z3.3-12/23			
		192.168.10.2	08:30001	SN-T5L/13		13.6.08	25.1004.3.0.13.3.0
		192.168.10.	8:30001 SN-IP	R5821BZAN-J3-Z2.7-13			

7.1.1.1 Add Camera Automatically

The NVR can add automatically cameras to the camera list.

Operation Methods

Method 1: Click Refresh button, the cameras these are the same local subnet with NVR will show in list, input username and password (the default value both are admin)click

, the cameras in the list would be added to channels directly.

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

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



- On the camera management screen, check the status of channel in the camera list. If the status of a channel is , this camera is online. If the status of a channel is , this camera is offline.
- The added cameras should be the same subnet segment as NVR.

7.1.1.2 Add Camera Manually

Operation Steps

Step 1 Click , the screen to add devices manually is displaying, as shown in Figure 7-2.

Channel	P	Pr	otocol
CH1	192.168.32.196.30)001 P	rivate ᅌ
CH2	192.168.32.222:30)001 P	rivate
CH4	192.168.32.175:30)001 P	rivate 🗸
Channel			
P Address			
Protocol	ONV	F	~
Port	80		
Jsername			
Password			
Remote Chan	nel CH-1		

Figure 7-2 Add camera screen

Step 2 Input IP address, port, user name and password of camera.

- 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 c

, 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.

7.1.1.3 Add Camera by RSTP

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

management, and add cameras one by one, as shown in Figure 7-3.

🛠 System	Channel Record Alarm N	etwork System	×
	Camera RTSP Connection		
⊳ Encode	Custom Protocol	Custom Protocol 1 🗸 🗸	
▷ Sensor Setting	Protocol Name	Custom 1	
⊳ OSD	Stream Type	🗷 Main Stream 🗆 Sub Stream	
⊳ Privacy Zone	Protocol Type	RTSP V	
⊳ ROI	Port		
⊳ Microphone	Abs Path		
	Rtsp://[Host]:[Port]/[Abs Path];		
⊳ Human Thermometer			
⊳ Smart			
▷ Intelligent Tracking			
			Apply
			Chan

Figure 7-3 Protocol management

Step 1 Click Channel > Camera > Protocol Management.

- Step 2 Choose the custom protocol from the drop-down list, there are 16 kinds of protocols can be set.
- Step 3 Input the protocol name.
- Step 4 Tick main stream and sub stream. The main stream shows image on full screen live video. The sub stream shows image on split screen. If you just tick main stream and the channel will not show image on split screen.
- Step 5 Choose the type of protocol, the default value is RTSP.
- Step 6 Input the port, it depends the IP camera.
- Step 7 Input the path, it depends the manufacturer of cameras.
- Step 8 Click Apply to save the settings.

Ш NOTE

Choose the protocol from the drop-down list, the protocol is set at protocol management interface. The cameras should be confirmed to the protocols.

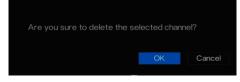
7.1.1.4 Delete Camera

Operation Steps

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

message screen is displaying, as shown in Figure 7-1.

Figure 7-1 Delete confirmation message



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

7.1.1.5 Operate Camera

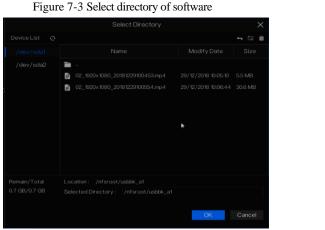
At camera list, click **to** operate camera as shown in Figure 7-2, user can update, reboot and reset the camera immediately.



Step 1 Click Update, pop-up window to select software, as shown in Figure 7-3.

Step 2 Set the directory click OK to update camera.

to



Step 3 Click **Reboot**, message "**Are you sure to reboot?** " would show, click

reboot the camera.

- Step 4 Click **Reset**, message "**Are you sure to reset?**" would show, user can enable the retain IP address function. click OK to rebset the camera.
- Step 5 Tick the cameras with non-onvif protocol and cameras are online, click **Update** to update all cameras at once.



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 7-4.

	Tiguie	/ 4 Eneode sereen		
🗙 System	Channel Record Alarm	Network System		×
⊳ Camera	Encode			
	Channel			
▷ Sensor Setting	Stream Information	Main Stream		
⊳ OSD	Video Encode Type	H265		
▷ Privacy Zone	Audio Encode Type	G711A		
	Resolution	4000x3000		
	Frame Rate(fps)			
	I Frame Interval(Frame)			
	Bitrate Type	CBR		
	Bitrate(kbps)(500-4096)	4096		
			Copy Apply	

Figure 7-4 Encode screen

Operation Steps

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

Step 2 Select stream information.

- Step 3 Select encode type (video and audio), resolution, frame rate, bitrate type and bitrate size from the drop-down lists.
- Step 4 Click Copy and select channels or tick **all**, then click OK to apply the parameter settings to cameras in selected channels , click Apply to save encode parameter settings.

----End

7.1.3 Sensor Setting

Sensor setting refer 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 7-5.

```
Figure 7-5 Sensor setting screen
```

🗙 System	Channel Record Alarm Network System	x
⊳ Camera	Sensor Setting	
⊳ Encode	Charnel 1 V	
► Sensor Setting	0.00 2010-00-11-12	
⊳ OSD		
▷ Privacy Zone		
	Scene Default v	
	Brightness + 50	
	Sharpness + 50	
	Contrast + 50	
	Saturation + 50	

The Sensor Setting are as follows:

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

Other parameters are sensor settings of IP cameras, like scene, exposure, white balance, daynight, 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: user 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: user 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 7-6.

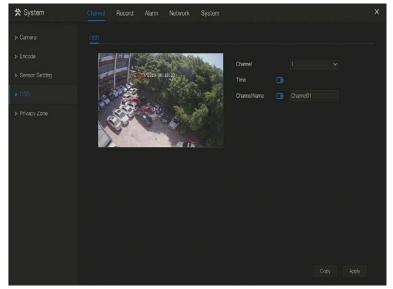


Figure 7-6 OSD setting screen

Operation Steps

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

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

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

Step 4 Set the channel name.

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

Step 6 Click	Сору	and select channels	s, then click	OK	to apply the OSD settings to
came	ras in select	ted channels, click	Apply	to save (OSD settings.

----End

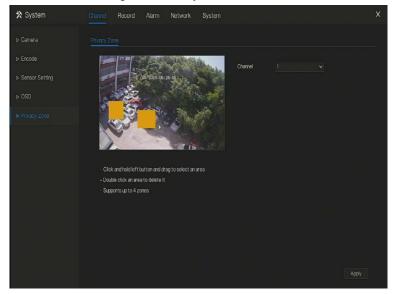
7.1.5 Privacy Zone

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

Operation Description

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

Figure 7-7 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.

7.1.6 ROI

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 7-8.

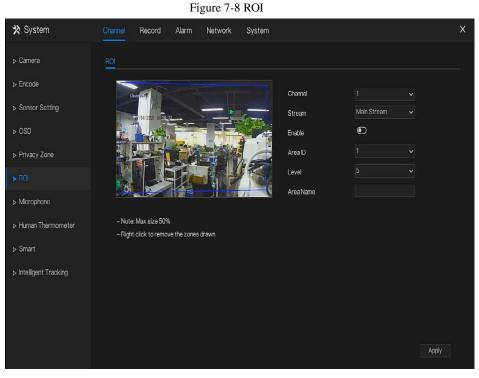


Table 7-1 RIO parameter

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

7.1.7 Microphone

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

		•	
🗙 System	Channel Record Alar	n Network System	×
⊳ Camera	Microphone		
▷ Encode	Chamel		
▹ Sensor Setting	Microphone	0	
	Microphone Type		
⊳ Privacy Zone	Microphone Volume	+ 50	
▶ Human Thermometer			
⊳ Smart		٠	
▷ Intelligent Tracking			
			Apply

Figure 7-9 Microphone

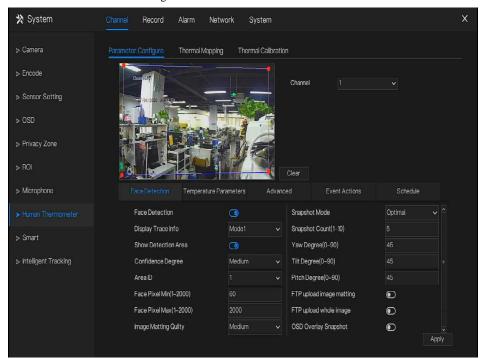
Table 7-2 Microphone

Parameter	Description	Setting
Enable Microphone	Indicates whether to enable the microphone function.	[Setting method] Click the button on to enable microphone.
Microphone Type	Microphone types include: • 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 Themometer

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 7-10 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	[Setting method]
	tracing.	Enable the button

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

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

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

Figure 7-11 Temperature parameters

	Thermal Cal	lioration				
			Channel			
Face Detection Temperature Pa	rameters A	dvance	Clear ed	Event Actions	Schedule	
Enable	0		Face Color		٢	
Temperature Unit	Celsius		Environment A	daptation	0	
Length Units	Meters		Abnormal Tem	perature Display	0	
Ambient Temperature(–273 – 500.	40.00		Temperature /	Area	Mode1	
Cavity Temperature			Temperature I	vleasure Mode	Mode1	
	0.00					
Correction Coefficient(-100 - 10.						

Table 7-4 Temperature parameters

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

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

Parameter	Description	Setting
Environment adaptation	Enable, the device will restart the temperature if the ambient temperature of camera varies greatly. It is recommended not to open.	[Default value] Disable
Abnormal temperature display	Enable, the measure temperature is lower than 34 °C will show on OSD. Disable, the measure temperature is lower than 34 °C will not show on OSD.	[Default value] Disable
Temperature area	Two modes, 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
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

Parameter	Description	Setting
Output channel	Choose channels to output alarm	[Setting method] Tick the channels
		[Default value] Uncheck
Alarm rules	Set the maximum temperature greater than set value	[Default value] Maximum temperature greater than
Alarm Interval(1- 1800 S)	N/A	[Setting method] Input a number from 1 to 1800 [Default value] 10
Alarm record	Enable, install the SD card, when there is an alarm, the camera will record the current video.	[Setting method] Enable
SMTP	Enable, when there is an alarm, the camera will send mail.	[Setting method] Enable
FTP upload	Enable, when there is an alarm, the camera will upload FTP.	[Setting method] Enable

Table 7-5 Temperature parameters of linkage

7.1.8.2 Thermal Mapping

Figure 7-12 Thermal mapping

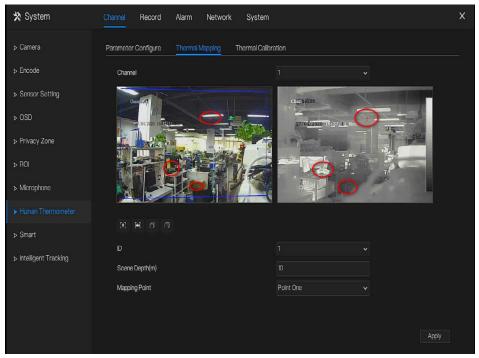


Table 7-6 Parameter of thermal mapping

Parameter	Description	Setting
[#] [##]	Zoom in /zoom out.	[Setting method] Click the button
C C	Near focus / far focus.	[Setting method] Click the button
Lock focus position	N/A	[Setting method] Tick .
ID	There are 8 scenes can be calibrated.	[Setting method] Select from drop-down list .

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

7.1.8.3 Thermal Calibration

Figure 7-13 Thermal calibration

arameter Configure	Thermal Mapping	Thermal Calibrat	tion		
Channel06	V	STREET, ST	Channel		
		-	Enable	۲	
27/04/2020-0	3:41: <u>12 Von</u>	5	Display Area Info	▣	
1 HE		1-12-22	Taget Temperature	40.00	
	1		Emission Rate	0.98	
			Distance(M)	5.00	
		Clear			
					Apply

Table 7-7 Thermal calibration

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

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

7.1.9 Smart



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

7.1.9.1 AI Multiobject

Figure 7-14 AI multiobject

🗙 System	Channel Record Alarm I	Network System		×
⊳ Camera	Al Multico ject License Plate Reco	gnition Face Detection		
▷ Encode			Channel 13	
▷ Sensor Setting				
▶ OSD				
▷ Privacy Zone				
> ROI			Clear	
» Microphone	Parameter Configure So	hedule		
▶ Human Thermometer	Face Detection	0	Image Matting Quilty	Medium 🗸 🗅
	Fulbody Detection	0	Attribute	
	License Plate Detection	٢	Snapshot Mode	Optimal 🗸
▷ Intelligent Tracking	Vehicle Detection	٩	Yaw Degree(0-90)	
	Display Trace Info	Mode1 v	Tilt Degree(0-90)	
	Show Detection Area	0	Pitch Degree(0-90)	
	Confidence Degree	Medium 🗸 🗸	FTP upload image matting	Đ
	Face Pixel Min(30-300)		FTP upload whole image	•
				Apply

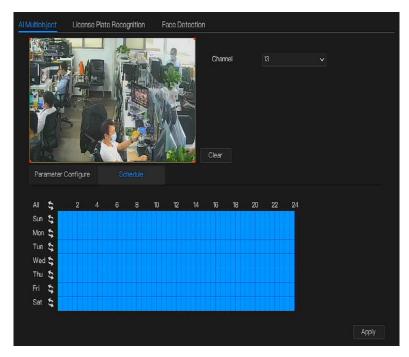
	Table 7-8 AI multiobject			
Parameter	Description	How to set		
Face detection	The camera will snap the face when someone appears in live video.	Enable		
Full body detection	The camera will snap the whole body when someone appears in live video.	Enable		
Licence plate detection	The camera will snap the 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: 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 coefficient	The range of snap image, there are three type, such as high, mid and low. The higher the confidence, the better the snap quality and the fewer snapshots.	Choose from drop list.		
Face pixel min(30-300)	30-300 pixels, the smaller the pixel be set, the more 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 ranges 30 to 300		

Parameter	Description	How to set
Plate 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
Vehicle 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
Image matting quality	The quality of snap image, There are three mode can be chosen, such as low, mid and high.	Choose from drop list.
Attribute	Click to enable, the screenshot can display the relevant basic information of the vehicle. Such as the age of people, gender, etc. The color, model of the car.	Enable
Snapshot mode	There are three mode 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
Snapshot count	At optimal mode, set the number of snapshot image	Input a value ranges 1 to 5
Yaw degree(0- 90)	Both eyes appear on the screen, offset in the left and right direction	
Tilt degree(0-90)	The face is deflected, and both eyes cannot appear in the picture.	Input a value ranges 0 to 90
Pitch degree(0- 90)	Face is moving up and down	
FTP upload image matting	Configuration > Network Service > FTP , set FTP related parameters, the captured picture will be sent to the set FTP location	Enable

UI System Setting

Parameter	Description	How to set
FTP upload whole image	Capture a picture and send a whole image.	Enable

Figure 7-15 Schedule



7.1.9.2 License Plate Recognition

🛠 System	Channel Record Alarm Net	work System			×
⊳ Camera	Al Multiobject License Plate Recognit	ion Face Detection			
▷ Encode	09-27-2014 Sat 09.33:0	-1-	Channel 10		
▹ Sensor Setting	27/86/2020 17:08:56 Min				
> OSD					
▷ Privacy Zone					
⊳ ROI		Canera D1-	Clear		
⊳ Microphone	Parameter Configure Sched	ule			
Human Thermometer	License Plate Recognition	0	Snapshot Mode	Optimal 🗸	
	Confidence Degree	Medium 🗸	Snapshot Count(1-10)(1)		
	Minimum Plate Width(60-100)		FTP upload image matting	Ð	
Intelligent Tracking	Image Matting Quity	Medium 🗸	FTP upload whole image	Ð	
				Apple	
				Apply	

Figure 7-16 License plate recognition

Table 7-9 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 be set, the more plate will be captured, but it may be mistaken.	Input a value ranges 60 to 100

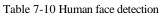
UI System Setting

Function	Procedure	Description
Image matting quality	The quality of snap image, There are three mode can be chosen, such as low, mid and high.	Choose from drop- down list.
Snapshot mode	There are three mode 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

7.1.9.3 Face Detection

🗙 System	Channel Record Alarm N	letwork System		×
⊳ Camera	Al Multiobject License Plate Recog	nition Face Detection		
▷ Encode	Channel 12	-	Channel 12	
▷ Sensor Setting	27/04/2020 17:09:12			
⊳ OSD				
▷ Privacy Zone	re ce All and a second			
⊳ ROI			Clear	
⊳ Microphone	Parameter Configure Sch	edule		
▹ Human Thermometer	Face Detection	0	Snapshot Mode	Timing ~
▶ Smart	Upbody Detection		Upload Image Interval(1–10s)	
P Officiel	Fullbody Detection	٩	Yaw Degree(0-90)	45
Intelligent Tracking	Display Trace Info	٢	Tilt Degree(0-90)	45
	Confidence Degree	Medium 🗸	FTP upload image matting	0
	Face Pixel Min(1-2000)		FTP upload whole image	lacksquare
	Image Matting Qulity	Medium 🗸		
				Apply

Figure 7-17 Face detection



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

System Setting		User Man
		[Default value]
		OFF
Display trace	Display the information of	[Setting method]
	tracing.	Enable
Confidence coefficient	Face detection sensitivity, the value range is high, medium, low, the larger the value is, the higher the sensitivity. The higher the sensitivity value is, the higher the detection rate will be, but the more false	[Setting method] Choose from drop -list [Default value] Medium
	detection may occur, such as the false detection of the patterns on pedestrian clothes to adult faces.	
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	[Setting method]
-	optimal.	Choose from drop -list
		[Default value]
		Timing
Upload image	The snapshot mode is optimal,	[Setting method]
interval	set the interval.	Input a number from 1 to
		10
		[Default value]
		5
		-
Snapshot count	At optimal mode, set the number of snapshot image	[Setting method]
	number of snapshot mage	Input 1
Yaw degree(0-90)	Both eyes appear on the screen,	[Setting method]
	offset in the left and right	Input a number from 0 to
	direction	90
		[Default value]
		30
Tilt degree(0-90)	The face is deflected, and both	[Setting method]
	eyes cannot appear in the	Input a number from 0 to
	picture.	90
		[Default value]
		30
FTP upload image	Configuration > Network	[Default value]
matting	Service > FTP , set FTP related	Disable
	parameters, the captured picture	
	will be sent to the set FTP	
	location	
FTP upload whole	Capture a picture and send a	[Default value]
image	whole image.	Disable

7.1.10 Intelligent Tracking

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.

🗙 System	Channel Record Alarm	Network System	×
⊳ Camera	Intelligent Tracking		
⊳ Encode	Channel		
▷ Sensor Setting	Intelligent Tracking	0	
⊳ OSD	Calibration Coefficient	- 0 + 1	
▷ Privacy Zone	Trace Magnify	17	
⊳ ROI	Time Of Duration(s)	+ 212	
⊳ Microphone			
▷ Human Thermometer			
⊳ Smart			
► Intelligent Tracking			
			Apply

Figure 7-18 Intelligent tracking

Table 7-11 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	It is equivalent to a control	[Setting method]
Coefficient	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	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

7.2 Record Setting

Set the Record Schedule, view the disk capacity, examine the record' status.

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 7-19.

Figure 7-19 Record management screen

🗙 System	Channel Record Alarm Network System	×
	Record Schedule	
⊳ Disk	Chamel 1 v	
▹ Storage Mode	Record Enable	
⊳ RAID	Record Audio	
⊳ S.M.A.R.T	All 💲 2 4 6 8 10 12 14 16 18 20 22 24 Sun 💲 🗖 🖬 🖬 🖬 🖬 🖬 🖬 🖬 🖬 🖬 🖬 🖬 Continuous	
Disk Detection	Mon 💲 🔲 Alarm Tue 💲 Tuent and a state of the state of	
▹ Cloud Storage	Wed to an	
▷ Disk Calculation	Fri 💲 management og som	
	Capy Apply	

Operation Steps

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

Step 2 Enable the record enable.

Step 3 Enable the record audio.

Step 4 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.
- User can choose alarm type to record, if the chosen alarm is happen at the setting time, it will record. So that it will effective using the disk to avoid repeating useless recording.

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

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

record schedule.

Step 6 Click Copy and select channels or tick **all**, then click OK to apply the record management settings to cameras in 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 manner.

Operation Description

Step 1 Click **Record** in the main menu or menu of the record screen and choose **Disk** to access the disk screen, as shown in Figure 7-20.

Figure 7-20 Disk screen

🛪 System	Channel	Record Al	arm Netw	ork System				×
▷ Record Schedule	Disk							
> Disk								
▹ Storage Mode		Disk1 Capacity 1TB		Disk2 Capacity 4TB	Disk3	/ 4ТВ	Disk4 Capacity 3TB	
⊳ RAID								
⊳ S.M.A.R.T						Format		
▷ Disk Detection	Disk	< Status		Normal				
▷ Cloud Storage	Disk	k SN		WD-WCC4J3DZ	16JL			
	Use	ed Space		677GB				
	Disk	k Group						
	Rec	cording Overwrite		٢				
								Apply

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 Record expiration setting. Select record expiration days from the drop-down list of record expiration.

Step 6 Click Apply to save the settings.

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

----End

7.2.3 RAID

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

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 are better same for efficient using.

Figure 7-21 RAID

🛠 System	Channel	Record A	larm Netwi	ork System			×
▷ Record Schedule	RAD						
⊳ Disk		Create RAID			×	HDD Members	Operate
			RAID 5				
⊳ S.M.A.R.T			Name	Capacity	Hotspare Disk		
			Disk1	1TB			
			Disk3				
			Disk4				
					OK Cancel		Create

Operation Steps

- Step 1 Click **RAID** to create the RAID.
- 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 more than basic disks.

Step 4 Click

to save the creation, format the new RAID.

7.2.4 Storage Mode

User is based on need to distribute the channels to different disk group, and use disk capacity reasonably, as shown in Figure 7-22

🛪 System	Channel	Record	Alarm	Network	System			×
▷ Record Schedule	Storage Mi	ode						
⊳ Disk	Mode Se	lection	@ G	roup				
	Disk Grou	qu						
⊳ RAID	Channel		1	2 3 4	5 6 7 8			
⊳ S.M.A.R.T			9	10 11 12	13 14 15 16			
Disk Detection					21 22 23 24	1 .		
▷ Cloud Storage								Apply
	The defa	ult Channel be	longs to Group					
			isk			Channel	Used Space	Capacity
		D	isk1			1–16	677GB	
		Di	sk2			17–32	448GB	
		Di	sk3			33–48	753GB	
		Di	sk4			49–64	3.0TB	3.0TB

Figure 7-22 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 to record these channels, please make sure about all channels are in list.

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

7.2.5 S.M.A.R.T

S.M.A.R.T is Self-Monitoring Analysis and Reporting Technology, user can view the health of disk, as shown in Figure 7-23.

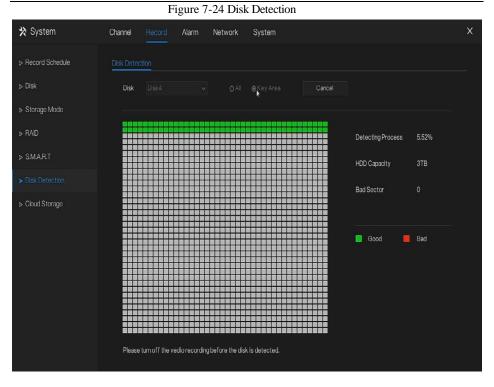
Disk								
Disk SN	Z1E2LCP8		Disk Model	ST2000V)	(000-1CU164			
Temperature Disk Health	42.0 C GOOD		Working Time	2.4 Year				
1 raw	-read-error-rate	OK	119	86		prefail	0xa89e170d0000	
4 star	t-stop-count					old-age	0x7c020000000	
5 real	located-sector-c.							
7 see	k-error-rate					prefail	0x36c8810d0c00	
						old-age	0x615200000000	
							0x0000000000000	
						old-age		

Figure 7-23 S.M.A.R.T

7.2.6 Disk Detection

Before the recording the video, user need to detect the disk to keep the data safety, as shown in Figure 7-24.

UI System Setting



Operation Steps

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

- Step 2 Tick all or key to detect the disk. Detect all need some time, detect key section maybe need a few 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.

7.2.7 Cloud Storage

The cloud storage can save the motion detection and intelligent analysis alarm, if user certificate the Google Drive.

🗙 System	Channel Record Alarm	Network System	Х
▷ Record Schedule	Cloud Storage		
⊳ Disk	Enable	0	
▷ Storage Mode	Cloud Type	Google Drive 🗸	
⊳ RAID	Certification Status	Not Certified	
⊳ S.M.A.R.T	Upload Video Size(5-64MB)	5	
Disk Detection	Authorization code path		
▹ Disk Calculation			
	Authorization code	Send 9:23	
			Apply

Figure 7-25 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 7-26.

Figure 7-26 Certification

EnableImage: Cloud TypeCloud TypeGoogle DriveCertification StatusCertification	Cloud Storage	
	Enable	
Certification Status Certification	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.

7.2.8 Disk Calculation

User can calculate the usage of disk, so that he can set the storage strategy reasonably, as shown in Figure 7-27.

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

X System	Channel Record Alarm	Network S	ystem		×
Record Schedule	Disk Calculation				
⊳ Disk	Mode Selection	Computing (Capacity		
⊳ Storage Mode	Expect to save time		Day		
⊳ RAID	The daily video time		•	h	
⊳ SMART	The required disk space				
▷ Disk Detection	The regular disk space	\sim			
▷ Cloud Storage		(182.7	GB		
Disk Calculation	X	\cup			
F					

Figure 7-27 Disk calculation of capacity

UI System Setting

Figure 7-28 Disk calculation of time

🗙 System	Channel Record Alarm	Network System	×
Record Schedule	Disk Calculation		
> Disk	Mode Selection	Computation time	
⊳ Storage Mode	Disk Size		
> RAD	The daily video time	———————————————— 24 h	
⊳ SMART	Video can be save time		
Disk Detection			
▹ Cloud Storage		(141) Day Week Month	
Disk Calculation		\bigcirc	
		*	

7.3 Alarm Management

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

Alarm In, Abnormal Alarm and Alarm out 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 7-29.

Figure 7-29 Alarm management screen

🛠 System	Channel Record Alarm	Network System	×
	General IO Control Push		
▷ Motion Detection	Enable Alarm	٦	
⊳ Video Loss	Duration Time		
▶ Intelligent Analysis	Buzzer duration time	30s 🗸	
⊳ Alarm In			
⊳ Abnormal Alarm			
⊳ Alarm Out			
			Apply

Step 2 Enable the Enable alarm button.

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

Step 4 Click Apply to save alarm settings. 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 in the normally open state. Only when the alarm in 1 is in the normally closed, it can push alarm message.

Step 1 Enable the IO control push.

Figure 7-30 IO control push

General IO Control Push		3
Enable	•	
Alarm In	1 ~	
Mode	N/0 🗸	
Disabled Items	□ 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 setting.

----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 7-31.

🗙 System	Channel Record Alarm Network System	Х
⊳ General	Motion Detection	
	Chamel 1 v	
⊳ Video Loss	Enable 💽	
▶ Intelligent Analysis	Mation Analysis	
⊳ Alarm In	Event Actions ::: Area	
> Abnormal Alarm	Pushmassage to APP □Emall □Buzzer □Pop umessage tomonitur □Full Screen □Cloud Storage Alarm Time(s)(0:Continuous) 0 Output D 1 2 3 4 Chamel Alarm Out ① Alarm Record ⑦	
	h	

Figure 7-31 Motion detection screen

Operation 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 detect the motion action, the area will be block as shown in Figure 7-32.

Step 4 Enable the Event actions include: push to APP, Email, Buzzer, Pop up message to monitor,

Full screen, Cloud storage, Alarm out, Channel alarm out, and alarm record.

Step 5 Click Area page to access the motion detection area setting, as shown in Figure 7-32. Figure 7-32 Motion detection area setting screen

🛠 System	Channel Record Alarm Networ	k System	Х
⊳ General	Motion Detection		
	Channel 3		
⊳ Video Loss	Enable		
▹ Intelligent Analysis	Motion Analysis 🧿		
⊳ Alarm In	Event Actions 🔛 Area	1) Schedule	
> Abnormal Alarm	2000-11-09 15 19:00 Thr anna 10: Sensitivity High	Сору <u>А</u> ,руу	

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 7-19Step 4 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.

After a motion detection area is selected, double-click it 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, user need to set alarm time and output ID, four ID are correspond 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 correspond to alarm port of camera.

----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 7-33.

🛪 System	Channel Record Alarm	Network	System		Х
⊳ General	Video Loss				
▷ Motion Detection	Channel				
	Enable	۲			
▹ Intelligent Analysis	Event Actions	lule			
⊳ Alarm In ⊳ Abnormal Alarm	Pop up message to monitor	🗆 Email	□Buzzer		
⊳ Aonormai Alarm	Alarm Time(s)(0:Continuous)	0			
	Alarm Record	O			
				Copy Apply	

Figure 7-33 Video loss screen

Operation Steps

- Step 1 Select a channel from the drop-down list of channel.
- Step 2 Click **O** to enable video loss alarm.
- Step 3 Enable the Event actions include: buzzer, alarm out, push message, pop up message, send E-mail and post recording.
- Step 4 Click Schedule page to access the schedule screen.
- Step 5 For details, please see 7.2.1 Record Schedule Figure 7-19Step 4 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 Intelligent Analysis

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 7-34.

🛠 System	Channel Record Alarm Network System	×
⊳ General	Parimeter Single Virtual Fence Double Virtual Fences Object Left Object Removed Signal Bad Loiter Multi Loiter Abnormal Speed Converse Illegal Parking Advanced	
Motion Detection		
⊳ Video Loss	Chamel 1 v	
	Enzle	
⊳ Alarm In	Event Actions 🔛 Area 🛗 Schedule	
⊳ Abnormal Alarm	Push message to APP Bruil Buzzer Popup message to monitor Full Screen Cloud Storage Alarm Time(s)(0:Continuous) Output D Charnel Alarm Out Alarm Record	
	Apply	

Figure 7-34 Intelligent Analysis screen

Step 2 Select one action to set the alarm.(perimeter, single virtual fence, double virtual fences, object left, signal bad, loiter, multi loiter, abnormal speed, converse, illegal parking, advanced)

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

Step 4 Click **(** to enable intelligent analysis alarm.

Step 5 Enable the event actions include: buzzer, alarm out, push message, pop up message, send

E-mail and post recording.

Step 6 Click Schedule page to access the schedule screen.

Step 7 For details, please see Figure 7-19Step 4 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	m Network System	n	X
▷ General ▷ Motion Detection	Perimeter Single Virtual Fer Loiter Multi Loiter Ab	nce Double Virtual Fences normal Speed Converse	Object Left Object Removed Illegal Parking Personnel Count	Signal Bad Advanced
 Video Loss 	Channel			
► Intelligent Analysis				
⊳ Alarm In	Changella		Enable	٦
⊳ Abnormal Alarm			OSD Enable	•
⊳ Alarm Out	28/04/2020 10:2		Counting Clear Interval	1Day 🗸
			Area Type	Line v
	– A->B is out			
	– B–>A is in	N		
				Apply

Figure 7-35 Personnel count

Table 7-12 Personnel	count parameters
----------------------	------------------

Parameter	Description	Setting
Enable	Enable the button to enable the	[How to set]
	personnel count	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 count personnel.	[Default value] Line

----End

7.3.5 Alarm In

There 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 7-36.

🛠 System	Channel Record Alarm Network System	×
⊳ General	Alarm In Channel Alarm In	
Motion Detection	Alamin 1 v	
⊳ Video Loss	Enable 🕜	
⊳ Intelligent Analysis	Alarm Type N/O 🗸	
	Name Sensor 1	
> Abnormal Alarm	Event Actions Schedule Push message to APP Pop up message to monitor Alarm Time(s)(0:Continuous) Output D 1 2 3 4 Alarm Record	Арріу

🗙 System	Channel Record Alarm	Network S	ystem		Х
⊳ General	Alarm In Channel Alarm In				
▷ Motion Detection	Channel				
⊳ Video Loss	Alarm in				
⊳ Intelligent Analysis	Alarm Type				
	Enable	٢			
> Abnormal Alarm	Event Actions	nedule		*	
	✓ Push message to APP ✓ Pop up message to monitor Alarm Out Alarm Time(s)(0:Continuous) Output ID Channel Alarm Out Alarm Record		Buzzer Cloud Storage	•	
					Apply

Figure 7-37 Channel alarm in

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: buzzer, alarm out, push message, pop up message, send E-mail and post recording. Step 6 Click Schedule page to access the schedule screen. For details, please see 7.2.1 Record

Schedule Figure 7-19Step 4 Set the record schedule.

Step 7 Click Apply to save alarm in settings.

7.3.6 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 7-38.

Figure 7-38 Abnormal alarm screen

🛠 System	Channel Record Alarm Network System	×
⊳ General	Abnormal Alarm	
▷ Motion Detection	Enable	
⊳ Video Loss	Alarm Type	
⊳ Intelligent Analysis	$\overleftarrow{=} \bigcirc \overleftarrow{-} \overrightarrow{n} \oslash \overleftarrow{\circ} \oslash \oslash$	
⊳ Alarm In		
	Alarm Out Co Alarm Time(s)(0:Continuous) 0	
	Output ID 1 2 3 4	
	Αρρίγ	

Step 2 Tick the abnormal actions.

Step 3 Enable the event actions include: buzzer, alarm out, push message, pop up message, send

E-mail and post recording.

Step 4 Click Apply to save abnormal alarm settings.

----End

7.3.7 Alarm Out

7.3.7.1 Alarm Out

Choose one output ID as the output interface.

Figure 7-39 Alarm out

🗙 System	Channel	Record	Alarm	Network	System		×
⊳ General	Alarm Out	Camera A	larm Out				
▷ Motion Detection	Output	t ID					
≽ Video Loss							
▶ Intelligent Analysis							
⊳ Alarm In							
⊳ Abnormal Alarm							
							Apply
							Apply

7.3.7.2 Camera Alarm out

🗙 System	Channel Record Alarm	Network System	×
⊳ General	Alarm Out Camera Alarm Out		
Motion Detection	Channel		
⊳ Video Loss	Output ID		
▹ Intelligent Analysis	Name		
⊳ Alarm In	Valid signal	Close	
Abnormal Alarm	Alarm Output Mode	Switch Mode	
► Alarm Out	Alarm Time(s)(0:Continuous)		
			Apply

Figure 7-40 Camera alarm out

Table 7-13 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

Parameter	Description	Setting
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
Alarm Output Mode	 When the device receives I/O alarm signals, the device sends the alarm information to an external alarm device in the mode specified by this parameter. The options include the switch mode and pulse mode. 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. 	[Setting method] Select a value from the drop-down list box. [Default value] Switch Mode
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

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 7-41. Figure 7-41 Network management screen

🛠 System	Channel Record Alarm	Network System	
	P Port IPv4 CCTV		
⊳ 802.1X	DHCP	Ō	
▷ DDNS	IP Address		
⊳ Email	Subnet Mask		
▷ Port Mapping	Default Gateway	192 - 168 - 32 - 254	
⊳ P2P	Obtain DNS Automatically		
⊳ IP Filter	Preferred DNS Server		
	Altenate DNS Server		
⊳ SNMP		k	
⊳ 3G/4G			
▷ PPPOE			
		Ap	nlv
		- Ab	Paγ

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 new address.

Step 5 Click Apply to save IP settings. ----End

7.4.1.2 Port

Operation Steps

Step 1 Click Port page to access the port setting screen, as shown in Figure 7-42.

Figure 7-42 Port setting screen

P Port Pv4 CCTV		
HTTP Port		
DataPort		
Client Port		
		Apply

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

Step 3 Click Apply to save port settings.

7.4.1.3 IPv4CCTV

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

Operation Steps

Step 1 Click Ipv4 CCTV page to access the LAN2 setting screen, as shown in Figure 7-43.

🗙 System	Channel Record Alarm	Network System	×
► Network	IP Port IPv4CCTV		
⊳ 802.1X	IP Address		
⊳ DDNS	Subnet Mask	255 . 255 . 255 . 0	
⊳ Email	Default Gateway	192 . 168 . 10 . 254	
▷ Port Mapping			
⊳ P2P			
⊳ IP Filter			
⊳ SNMP			
⊳ 3G/4G			
▷ PPPOE			
¥			Apply

Figure 7-43 IPv4 CCTV

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

Step 3 Click Apply to save the settings.

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

7.4.1.4 POE

Operation Steps

Step 1 Click POE page to access the POE setting screen, as shown in Figure 7-44.

🛪 System	Channel Record Alarm	Network System	;
	IP Address		
	Subnet Mask		
	Default Gateway		
▷ Port Mapping			
SNMP			

Figure 7-44 POE screen

Step 2 The NVR will deploy IP addresses to the cameras which connect POE immediately. Step 3 Click Apply to set POE camera IP address successfully. ----End

7.4.1.5 WiFi Parameter

Operation Steps

Step 1 Click **WiFi Parameter** page to access the WiFi Parameter setting screen, as shown in Figure 7-44.

🛠 Setting		etwork System	X
		00:1C:28:1A:01:66	
⊳ UPnP	Wireless channel		

Figure 7-45 WiFi Parameter

Step 2 Set the parameters of WiFi.

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.

7.4.1.6 WiFi Network

Operation Steps

Step 1 Click **WiFi Parameter** page to access the WiFi Parameter setting screen, as shown in Figure 7-44.

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

Figure 1-1 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 N	etwork System	×
⊳ Network	<u>802.1X</u>		
▶ 802.1X	Enable		
▷ DDNS	User		
⊳ Email	Password		
▷ Port Mapping			
> P2P			
⊳ IP Filter			
⊳ SNMP			
		Apply	

Figure 7-46 802.1 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.

7.4.3 DDNS

Please make sure of connecting 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 7-47.

	8	0	
🗙 System	Channel Record Alarm	Network System	x
> Network	DDNS		
⊳ 802.1X	Enable		
> DDNS	Protocol	no_ip 🗸	
ı ⊳ Email	Domain Name		
▷ Port Mapping	User		
▶ P2P	Password		
⊳ IP Filter		Test	
⊳ SNMP			
			Apply

Figure 7-47 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 E-mail

If the simple mail transfer protocol (SMTP) function is enabling, the device automatically sends alarm information to specified email addresses when an alarm is generated. User can use two mailbox to send information.

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 7-48.

Figure 7-48 E-mail setting screen

🗙 System	Channel Record Alarm	Network System		х
▷ Network	Email Email 2			
⊳ 802.1X	SMTP Server			
▷ DDNS	SMTP Server Port			
	Username			
▷ Port Mapping	Password			
⊳ P2P	Email Sender			
p rzr	Alarm Receiver 1			
⊳ IP Filter	Alarm Receiver 2			
⊳ SNMP	Alarm Receiver 3			
⊳ 3G/4G	SSL Encryption	OFF v		
▷ PPPOE	Sending interval(0-600s)			
▹ Network Traffic		Test		
D Network Harne				
			Apply	

Figure 7-49 E-mail 2

SMTP Server smtp2gmal.com SMTP Server Port 25 Username #####@gmal.com Password Password Email Sender #####@gmal.com Alarm Receiver 1 #####@gmal.com Alarm Receiver 2 #####@gmal.com SSL Encryption OFF Sending interval(0-600s) 0 Test Test	ail <u>Email 2</u>		
Username ******@gmail.com Password Password Password ******@gmail.com Email Sender ******@gmail.com Alarm Receiver 1 ******@gmail.com Alarm Receiver 2 ******@gmail.com Alarm Receiver 3 ******@gmail.com SSL Encryption OFF Sending interva(0-600s) 0	SMTP Server		
Password Password Email Sender ******@gmail.com Alerm Receiver 1 ******@gmail.com Alerm Receiver 2 ******@gmail.com Alarm Receiver 3 ******@gmail.com SSL Encryption OFF Sending interval(0-600s) 0	SMTP Server Port		
Email Sender ******@gmail.com Alarm Receiver 1 ******@gmail.com Alarm Receiver 2 ******@gmail.com Alarm Receiver 3 ******@gmail.com SSL Encryption OFF Sending interval(0-600s) 0	Username		
Alarm Receiver 1 ******@gmial.com Alarm Receiver 2 ******@gmial.com Alarm Receiver 3 ******@gmial.com SSL Encryption OFF Sending interval(0-600s) 0	Password		
Alarm Receiver 2 ******@gmtall.com Alarm Receiver 3 ******@gmtall.com SSL Encryption OFF Sending interval(0-600s) 0	Email Sender		
Alarm Receiver 3 Alarm Receiver 3 SSL Encryption OFF Sending interval(0-600s) OFF 	Alarm Receiver 1		
SSL Encryption OFF Sending interval(0-600s)	Alarm Receiver 2		
Sending interval(0-600s) 0	Alarm Receiver 3		
	SSL Encryption	OFF	
Test	Sending interval(0-600s)		
		Test	

Step 2 Set SMTP server and SMTP server port manually.

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

- Step 4 Set E-mail for receive 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, that shows the 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.

7.4.5 Port Mapping 7.4.5.1 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 7-50. Figure 7-50 Port mapping setting screen

🛠 System	Channel Record Alarm	Network System	x
▷ Network	Port Mapping NAT Port		
⊳ 802.1X	Port Mapping Enable	٦	
⊳ DDNS	Mode	Auto	
⊳ Email	HTTP Port		
	Data Port		
⊳ P2P	Client Port		
⊳ IP Filter ⊳ SNMP	Port range [1025-65534]		
⊳ 3G/4G			
▷ PPPOE			
▹ Network Traffic			
			Apply

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.

----End

7.4.5.2 NAT Port

NAT port (network address translation) user can through NAT port to access the channels of NVR. User can set the start port, and it will generate the end port automatically. We will view the

NAT port when we access the channel three	ugh clicking	icon at Web interface.
---	--------------	------------------------

Figure 7-51 NAT port

🛠 System	Channel Record Alarm	Network System	×
⊳ Network	Port Mapping NAT Port		
⊳ 802.1X	Start Port	50002	
> DDNS	End Port		
▶ Email	Port range [40001–65534]		
⊳ P2P			
⊳ IP Filter			
⊳ SNMP			
⊳ 3G/4G			
▷ PPPOE			
▹ Network Traffic			
			Apply

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 7-52.

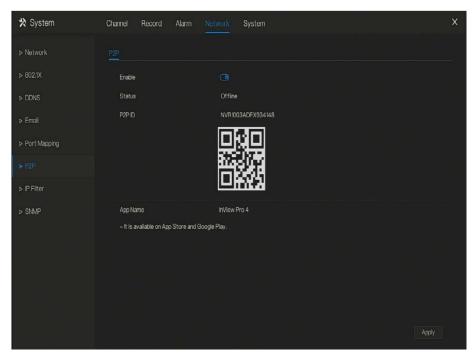


Figure 7-52 P2P screen

Step 2 Click **O** 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 7-53. Figure 7-53 IP Filter setting screen

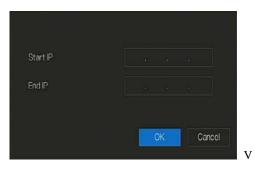
🛠 System	Channel Record Alarm Network System	×
⊳ Network	P Filter	
⊳ 802.1X	PFiter (3)	
⊳ DDNS	Rule Type Elleck List 🗸	
⊳ Email	Black List(Following network segments are forbidden)	
▷ Port Mapping		
▶ P2P		
► IP Filter		
⊳ SNMP		
	+ -	
	Αρρίγ	

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-

54.

Figure 7-54 IP Address Segment screen



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.

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

7.4.8 SNMP

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

Operation Steps

Step 1 Click **IP Filter** in the main menu or menu of the network management screen and choose **IP Filter** to access the IP filter screen, as shown in Figure 7-55.

🗙 System	Channel Record Alarm N	letwork System	×
⊳ Network	SNMPv1/2 SNMPV3		
⊳ 802.1X	SNMPV1		
⊳ DDNS	SNMPV2C	Đ	
⊳ Email	Write Community		
▷ Port Mapping	Read Community Trap Address		
⊳ P2P	Trap Port		
⊳ IP Filter	Trap Community		
► SNMP			

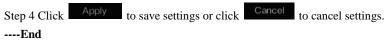
Figure 7-55 SNMP settings screen

Step 2 Click next to **SNMPV 1** to enable the function . The interface is shown as Figure 7-56.

Figure 7-56 SNMPV 1/2 interface

SNMPv1/2 SNMPV3	
SNMPV1	
SNMPV2C	
Write Community	
Read Community	
Trap Address	
Trap Port	
Trap Community	

Step 3 Input the parameters of protocol.



7.4.9 3G/4G

User can use modem to connect to data network.

Operation Steps

Step 1 Plug the modem to NVR, and enable the 3G/4G function, as shown in Figure 7-57. Figure 7-57 3G/4G setting screen

🛪 System	Channel Record Alarm	Network System	×
⊳ Network	3G/4G		
⊳ 802.1X	Enable	Ð	
⊳ DDNS	Status	Disconnected	
⊳ Email	Access Mode		
▷ Port Mapping	APN		
⊳ P2P	Dial Number Username		
⊳ IP Filter	Password		
⊳ SNMP	IP Address		
▶ 3G/4G			
▷ PPPOE			
		Ar	pply

Step 2 The status is connected to set the 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, if the status is all disconnected in five minutes, please unplug the modem to restart the modem immediately.

- Users are familiar with the relevant network (different service provider parameters are different) and modem information before manually switching to other modes, we recommend access mode to choose 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.

7.4.10 PPPOE

PPPOE point to point protocol Ethernet, user use the PPPOE to access network immediately.

🗙 System	Channel Record Alarm <u>Natwork</u> System	×
⊳ Network	PPPOE	
⊳ 802.1X	Enable 🕜	
⊳ DDNS	Username	
⊳ Email	Password 🤟	
▷ Port Mapping	IP Address	
> P2P		
⊳ IP Filter		
⊳ SNMP		
⊳ 3G/4G		
	Apply	

Figure 7-58 PPPOE

Step 1 Enable the PPPOE function.

Step 2 Input the usename, password(Network operator provides).

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

Step 4 User input the IP to access NVR web immediately.

----End

7.4.11 Network Traffic

User can view the network traffic immediately, as shown in Figure 7-59

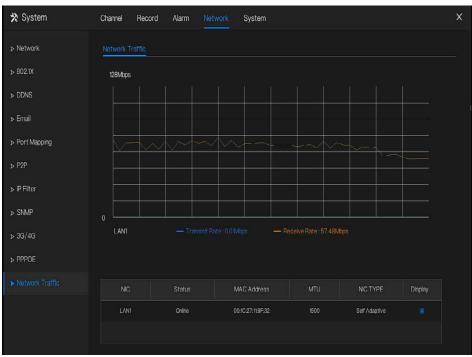


Figure 7-59 Network traffic

There are two rates, transmit rate and receive rate.

7.5 System Management

View the device **Information** and set **General** information, **User**, **Security Center**, **Auto Sequence**, **Logs**, **Maintenance** and **Auto Restart** 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 7-60.

🛠 System	Channel Re	cord Alarm	Network	System	<
► Information	Information				
⊳ General	Device ID		B01100	3ADLB7679UX	
⊳ User	Device Nam	ê	Device		
▹ Security Center	Device Type		NVR		
▷ Auto Sequence	Model		NVR36	32E4-P16E-J	
	Firmware Ve	rsion	v4.5.08	32.000.003.0.0.10.R01	
Auxiliary Screen	U-boot Vers	ion	140309	091134	
⊳ Logs	Kernel Versi	on	140309	0A070B	
⊳ Maintenance	Face Detect	tion Version	175310	3	
▷ Auto Restart	HDD Number				
	Channels Su	pported	32		
	Alarm In				
	Alarm Out				
	Audio In				
	Audio Out				

Figure 7-60 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 7-61.

Information	
Device ID	B011003ADLB7679UX
Device Name	Device
Device Type	NVR
Model	NVR3632E4-P16E-J
Firmware Version	v4.5.0832.0000.003.0.0.10.R01
U-boot Version	140309091134
Kernel Version	1403090A070B
Face Detection Version	1753103
HDD Number	4
Channels Supported	32
Alarm In	2
Alarm Out	2
Audio In	
Audio Out	1

Figure 7-61 Information interface

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 7-62.

🛠 System	Channel Record Alarm N	etwork System		×
▷ Information	System Date And Time Time 2	Zone DST Sync Ca	amera Time	
	Device Name	Device		
⊳ User	Output Resolution	1920x1080		
▹ Security Center	Language	English		
⊳ Auto Sequence	Temperature Unit	Celsius		
▷ Auxiliary Screen	 When Auxiliary Screen Is enabled,Out When Auxiliary Screen is disabled,Out 			
⊳ Logs				
⊳ Maintenance				
⊳ Auto Restart				
				Apply

Step 2 Enter device name for selected device.

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

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

Step 5 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

7-63.

🛠 System	Channel Record Alarm Net	work System		×
	System Date And Time Time Zo	ine DST		
	Date Format	DD/MM/YY hhmm:ss		
	Time Format			
Security Center	NTP Sync	0		
⊳ Auto Sequence	NTP Server	time.windows.com		
	Frequency of Checks. Minimum 10s	86400s		
	Date			
▷ Maintenance	Time			
⊳ Auto Restart				
	- Time modification will cause channels	to reconnect, and will affect the vid	ko quory Apply	

Figure 7-63 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 scroll the mouse scroll wheel to select the year, month, and date.

Click **Time** and scroll the mouse 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 7-64. Figure 7-64 Time zone setting screen

🛠 System	Channel Record Alarm Network System	×
▷ Information	System Date And Time Time Zone DST	
▶ General	Time Zone (GMT+00.00) Dublin, Edinburgh, Lo. v	
⊳ User		
Security Center		
⊳ Auto Sequence		
⊳ Logs		
▷ Maintenance		
▷ Auto Restart		

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 local rule is different.

Operation Steps

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

🛠 System	Channel Record Alarm	Network System	×
> Information	System Date And Time	Time Zone DST	
▶ General	Daylight Savings Time	٦	
⊳ User	Start Time	Mar v Last one v Sun v too v	
▹ Security Center	End Time	Oct v Last one v Sun v 100 v	
⊳ Auto Sequence	Offset Time		
⊳ Logs			
⊳ Maintenance			
▷ Auto Restart			
			Apply

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.

7.5.2.5 Sync Camera Time

User enable the sync camera time, the channels will show the sync time, and can set the

frequency of check

🛠 System	Channel Record Alarm Network System	X
> Information	System Date And Time Time Zone DST Sync Cornera Time	
► General	Sync Camera Time 🕜	
⊳ User	Frequency of Checks. Minimum 10s 300s	
▹ Security Center		
⊳ Auto Sequence		
▷ Auxiliary Screen		
⊳ Logs		
⊳ Maintenance		
▷ Auto Restart		
	k	
	Apply	
	<u></u>	

7.5.3 User

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

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 7-66.

🛠 System	Channel Recor	rd Alarm Network	System		×
> Information	User Adv.Sett	ing			
⊳ General		Username		Operate	
▶ User		admin	Super admin	۷.	
Security Center					
▷ Auto Sequence					
⊳ Logs					
▶ Maintenance					
▷ Auto Restart					

Figure 7-66 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 7-67.

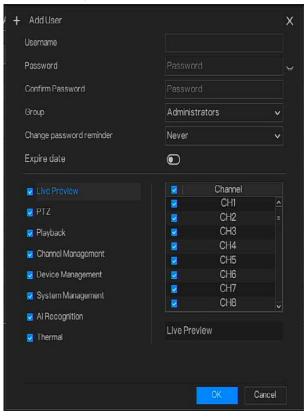


Figure 7-67 Add user screen

Input a username, password and confirm password.

The password should include letter, character and number, at least two types.

The password should be 6~32 characters.

- 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 . 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 7-68.

Figure 7-68 Advance setting screen

🛠 System	Channel Record Alarm Network System	×
▷ Information	Usor Adv.Satting	
⊳ General	Password double authentication	
	Boot Wizard	
▹ Security Center	AutoLogin	
⊳ Auto Sequence	Logout time (minutes) 5	
▷ Auxiliary Screen	Monitor channe(s) when logout 1 2 3 4 5 6 7 8 4 5 6 7 8 5	
⊳ Logs	17 18 19 20 21 22 23 24 🗸	
▹ Maintenance		
⊳ Auto Restart		
		Apply

Step 2 Enable or disable Auto login, Password double authentication, Boot Wizard. Set the logout time if the user disable the auto login.

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

Step 4 Click Apply to save settings.

7.5.4 Security Center

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

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 7-69. Figure 7-69 Password modification screen

🛠 System	Channel Record Alarm Network System	х
▷ Information	Password Pattern Unlock Secure Email Secure Question	
⊳ General	Old Password	
	New Password Password	
	Confirm Password Password	
▷ Auto Sequence	- Valid password range [6-32] characters.	
▷ Auxiliary Screen	- At least 2 kinds of numbers,lowercase,µppercase or special character contained. - Only these special characters are supported li≇#\$*+-=_%&*()/:;∞?*\-[]]	
⊳ Logs	 - out-invoc obcorra or and or or and or of an end of the state of the out-invoc of the state of	
» Maintenance		
> Auto Restart		
	Apply	

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

🛄 ΝΟΤΕ

The password should include at least two kinds of letter, character and number.

The password should be 6~32 characters.

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

Step 3 Click Apply to save modified password settings.

----End

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 7-70.

▷ Information Password Pattern Unlock Secure Email Secure Question	
> General Password Caseword	
> User Pattern Unlock Setting Pattern	
Security Conter	
> Auto Sequence	
> Logs	
> Maintenance	
> Auto Restart	
Cik Cancel	
Apply	

Figure 7-70 Pattern unlock screen

Step 2 Input the password, click Setting Pattern to set an new pattern unlock.

Step 3 Draw the pattern, then it will remind to draw the confirmation pattern again.

Step 4 Click OK to save the pattern unlock.

----End

7.5.4.3 Secure Email

Set the email to receive the verification code to create new password, as shown in Figure 7-71. Figure 7-71 Secure Email

🛪 System	Channel Record Alarm Net	work System	×
▶ Information	Password Pattern Unlock Secur	e Email Secure Question	
⊳ General	Password		
⊳ User	E-mail		
Security Center			
▷ Auto Sequence			
⊳ Logs			
▶ Maintenance			
> Auto Restart			
		Apply	

Step 1 Input the password of NVR.

Step 2 Set the Email which will receive email of the 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 7-71.

🗙 System	Channel Record Alarm Ne	twork System		Х				
▷ Information	Password Pattern Unlock Secu	re Email Secure Question						
⊳ General	Password							
	Question one	The brand and model of your favori	The brand and model of your favoriv					
	Question one answer							
▷ Auto Sequence	Question two	Your favorite team 🗸 🗸						
▷ Auxiliary Screen	Question two answer Question three	Your favorite city 🗸 🗸						
⊳ Logs	Question three answer							
⊳ Maintenance	- Please enter at least 1 characters for	the answer						
⊳ Auto Restart	- Please enter up to 32 characters for the	ne answer						
			Apply					

Figure 7-72 Secure question

Step 1 Input the password of NVR.

Step 2 Choose the question from drop-down list.

Step 3 Input the answer, click Apply to save setting.

7.5.5 Auto Sequence

Set video mode, dwell time in display screen.

Operation Steps

Step 1 Click **Auto Sequence** in the main menu or menu of the system management screen and choose **Auto Sequence** to access the display screen, as shown in Figure 7-73.

🛪 System	Channel Record Alarm Network System	×
▷ Information	Auto Sequence	
⊳ General	Charnel 🔲 🗮 🎟 🎟 📾 🗵	owell Time 5 sec ✓
⊳ User	сні <u>сн</u> 1 Х 2	
▹ Security Center	CH3	
► Auto Sequence	сн4 сн5 [≈] СН1 С	H2
Auxiliary Screen	CH6 CH7	
⊳ Logs	СНВ	
▹ Maintenance	сня сняз 3 4	
> Auto Restart	CH11 CH12	
	сніз СНЗ С	H4
	сни снъ	
	CH16	
	ik 1/8 x i	Apply

Figure 7-73 Auto Sequence screen

Step 2 Set mode of display. Select a display mode f.

Step 3 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 Click Apply to save dwell settings.

----End

7.5.6 Auxliary Screen

This function only can be used for the devices are 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 7-74

Figure 7-74 Auxiliary screen

🛪 System	Channel Record Alarm Net	twork System		х				
> Information	Auxiliary Screen Auto Sequence							
⊳ General	Enable Auxiliary Screen	0						
⊳ User	Output Resolution	1280x1024						
▹ Security Center	Decoding ability (main + auxiliary)	16+16						
⊳ Auto Sequence	Layout Mode	Display1						
➤ Auxiliary Screen	Displayed Channel	1						
⊳ Logs	Enable tour							
> Maintenance								
▷ Auto Restart								
			Apply					

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

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

Information	Auxiliary Scree	n Auto Seq	juence				
⊳ General	Channel	Mode	Display1 🗸	Dwell Time	5 sec 🗸 🗸	K 1/32 X	
⊳ User			Display1			X	
			Display4			~	
Security Center			Display8				
			Display9				
Auto Sequence	CH5		Display 16				
	CH6						
⊳ Logs	CH8						
				CH1			
▷ Maintenance	CH10			GITT			
⊳ Auto Restart	CH11						
P Auto Restart	CH12						
	CH13						
	CH14						
	CH15						
	CH16						

Figure 7-75 Auto sequence of auxiliary screen

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 enable.

7.5.7 Logs

7.5.7.1 Logs

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 7-76.

Figure 7-76 Log screen

🛠 System	Channel Re	cord Alarm	Network Sy	stem				х
▶ Information	Logs Ev	ent						
⊳ General	Start Date	21/07/2020			Start Time	02:48:21		
⊳ User	End Date	22/07/2020			End Time	02:48:21		
p 030	Туре	Operation Log			Search		Export	
 Security Center 		Start Time	Channel		Log Type		Information	
▷ Auto Sequence	1 22/0	7/2020 02:47:33	Channel22	Online		[admin] 127.0	.0.1001c270e468f	
		7/2020 02:47:16	Channel22	Online		[admin] 127.0	.0.1001c270e468f	
▷ Auxiliary Screen	3 22/0	7/2020 02:45:40	Channel22	Online		[admin] 127.0	.0.1001c270e468f	
	4 22/0	7/2020 02:45:20	Channel19	Online		[admin] 127.0	.0.1001c270e46aa	
► Logs	5 22/0	7/2020 02:44:22	Channel14	Online		[admin] 127.0	.0.1001c270b4053	
⊳ Maintenance	6 22/0	7/2020 02:42:32	Channel14	Online		[admin] 127.0	.0.1001c270b4053	
> Maintenance	7 22/0	7/2020 02:41:48	Channel14	Online		[admin] 127.0	.0.1001c270b4053	
⊳ Auto Restart	8 22/0	7/2020 02:41:43	Channel22	Online		[admin] 127.0	.0.1001c270e468f	
	9 22/0	7/2020 02:39:54	Channel22	Online		[admin] 127.0	.0.1001c270e468f	
	10 22/0	7/2020 02:39:17	Channel22	Online		[admin] 127.0	.0.1001c270e468f	
	11 22/0	7/2020 02:38:52	Channel14	Orkine		(admin) 127.0	.0.1001c270b4053	
	12 22/0	7/2020 02:38:25	Channel22	Online		[admin] 127.0	.0.1001c270e468f	
	13 22/0	7/2020 02:38:23		Login		(admin) 127.0	.0.1 login	
	14 22/0	7/2020 02:38:00		Logout		[admin] 127.0	.0.1 logout	
	15 22/0	7/2020 02:37:58	Channel14	Online		[admin] 127.0	.0.1001c270b4053	
			K	1/34	К			

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

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

search to query logs.

to export logs to USB storage.

----End

Step 4 Click

Step 5 Click

7.5.7.2 Event

The event logs are divided to more detail type, user can find the information quickly. The operation is same as logs, please refer to chapter 7.5.7.1.

Information	Logs E	vent					
⊳ General	Start Date	20/07/2020		Start Time	02:48:40		
⊳ User	End Date	22/07/2020		End Time	02:48:40		
p User	Туре			Search		Export	
 Security Center 	D	Start Time	Channel	Log Type		Information	
Auto Convenso		07/2020 07:42:42	Channel31	Temperature Differenc	e. Channel31		
Auto Sequence	2 20/	07/2020 07:42:42	Channel14	Motion Detection	Channel14		
Auxiliary Screen	3 20/	07/2020 07:42:41	Channel31	Motion Detection	Channel31		
	4 20/	07/2020 07:42:41	Channel28	Motion Detection	Channel28		
	5 20/	07/2020 07:42:40	Channel24	Face High Temperature	Channel24		
		07/2020 07:42:39	Channel30	Motion Detection	Channel30		
▷ Maintenance	7 20/	07/2020 07:42:39	Channel24	Motion Detection	Channel24		
⊳ Auto Restart	8 20/	07/2020 07:42:39	Channel16	Motion Detection	Channel16		
P Auto nestal t	9 20/	07/2020 07:42:37	Channel18	Motion Detection	Channel18		
	10 20/	07/2020 07:42:33	Channel01	Motion Detection	Channel01		
	11 20/	07/2020 07:42:33	Channel20	Motion Detection	Channel20		
	12 20/	07/2020 07:42:31	Channel31	Temperature Differenc	e. Channel31		
	13 20/	07/2020 07:42:28	Channel31	Motion Detection	Channel31		
	14 20/	07/2020 07:42:27	Channel22	Video Loss	Channel22		
	15 20/	07/2020 07:42:27	Channel18	Motion Detection	Channel18		

Figure 7-77 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 7-78.

		8-		manneen					
🗙 System	Channel	Record	Alarm	Network					×
▷ Information	Maintenance	<u>-</u>							
⊳ General			\sim	_		_	-1	- ^	
⊳ User	()		Þ		Ð,		, L	
▹ Security Center	Shuto	lown	Reboot	Logout		Reset	Import Configur.	Export Configur.	
⊳ Auto Sequence	G	ો	<i>f</i> or	₩ ₩					
▷ Auxiliary Screen	لم	لم	(لېل)						
⊳ Logs	Upd	ate	Cloud Update	Network Pac	sket.				
► Maintenance									
⊳ Auto Restart									

Figure 7-78 Maintenance screen

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

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

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

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

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

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

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When the NVR finishes updating, the device would restart.

Network packet capture: the NVR is plugged 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.

----End

7.5.9 Auto Restart

Operation Steps

Step 1 Click Auto restart in the main menu or menu of the system management screen and choose Auto restart to access the maintenance screen, as shown in Figure 7-78. Figure 7-79 Auto restart screen

🛠 System	Channel	Record	Alarm	Network	System			×			
▷ Information	Auto Rest	art									
⊳ General	Enable										
⊳ User	Resta	rt Time									
▹ Security Center											
⊳ Auto Sequence											
⊳ Logs											
> Maintenance											
► Auto Restart											
39											
								Apply			

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

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

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

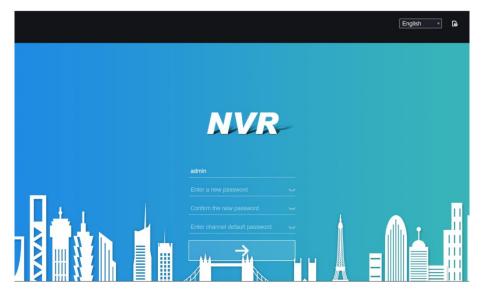
----End

8 WEB Quick Start

The functions of Web are another form of UI system settings, all functions can be refer 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

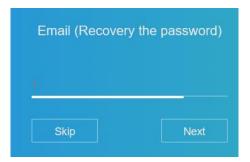


Step 1 Set the password, confirm the password.

Step 2 Input the channel password.

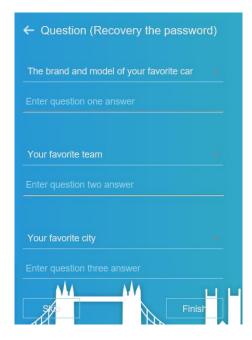
Step 3 Set the email of recovery the password.

Figure 8-2 Email



Step 4 Set the question of recovery the password.

Figure 8-3 Question



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

8.2 Login and Logout

A CAUTION

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

Otherwise, the interface functions cannot be used normally.

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

Brower supports 32 bits.

Descriptions of browser:

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

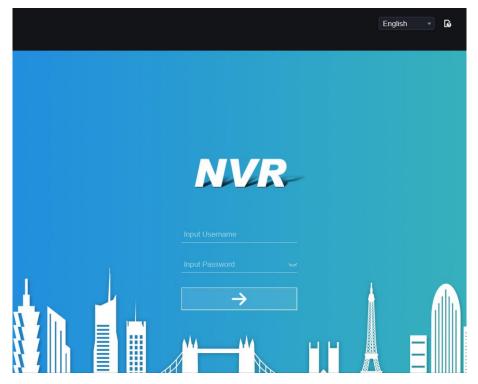
- In the Chrome address bar, enter chrome://flag/#enable-npapi.
- Go to the experimental features management page.
- Enable NAPAPI Mac, Windows.
- Click Enable (NPAPI plugin is enabled).
- Re-launch Chrome.

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

Step 1 Open IE browser, enter the IP address of the 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 incorrect more than 3 times, please login again after 5 minutes.

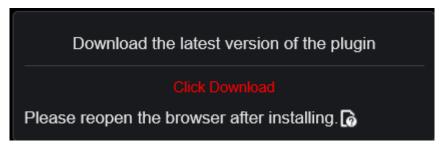
User can change the system display language on the login page.

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, it would show reminder to download the latest

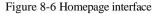
version of the plugin, as shown in Figure 6-4.





Step 4 Install the latest plugin, reopen the browser and the homepage is displaying as shown in

Figure 8-6.



NVR	۲	Ð	Q	C]	¢			ٹ ک	- G-	G
Device	8						۵			
Channel01										
Channel02										
Channel03										
Channel04					NO-VIDEO	NO-VIDEO			~ 1	
Channel05										
Channel06										L.
Channel07										
Channel08										
Channel09)						>			
Channel10										
Channel11										
Channel12										
Channel13					NO-VIDEO	N0-VIDE0				
Channel14										
Channel15										
Channel16										
Channel17										
Channel18	•			I 28		Ť				

Logout

To logout of the system, click in the upper right corner of the homepage. The pop-up

message shows "**Do you want to exit**?" Click **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 6-6 shows the overall layout of the interface. For descriptions of the interface, please refer to Table 8-1.

NVR	\odot	€	Q	[_]	÷::	₿				
🖵 Device	Ē,								9 7	2 3 4
Channel01										
Channel02										
Channel03										
Channel04	•			NO-VIDEO			NO-VIDEO		8 🔶	9 🔤
		l								
		-							>	
									[#]	
				NO-VIDEO			NO-VIDEO	6		
			11					12 👔		

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	Devices 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 use 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, user must perform the following operations when you log in to the web management system for the first time:

Step 1 Open Internet Explorer. Choose Tools > Internet Options > Security > Trusted sites >

Sites. In the displayed dialog box, click Add, as shown in Figure 8-8. Figure 8-8 Adding a trusted site

Internet Options	? X		
General Security Privacy Content Connections Programs Adva	nced]		
Select a zone to view or change security settings.	-		
Trusted sites This zone contains websites that you trust not to damage your computer or your files. You have websites in this zone. Security level for this zone Allowed levels for this zone: All		Trusted sites You can add and remove websites from this zone. All websites this zone will use the zone's security settings.	× s in
Low Minimal safeguards and warning prompts are provided Most content is downloaded and run without prompts All active content can run		Add this website to the zone: https://192.168.0.120 Add	
- An active concern can full - Appropriate for sites that you absolutely trust		Websites: *.hislicon.com *.hislicon.com *.huawei.com *.huaweidevice.com	
<u>R</u> eset all zones to default level		*.huaweimarine.com The second secon	
OK Cancel App	dγ	Gose	

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>? × </u>
General Security Privacy Content Connections Programs Adva	ranced
Select a zone to view or change security settings.	Security Settings - Internet Zone
Internet Local intranet Trusted sites Restricted sites	Allow previously unused ActiveX controls to run without prom Disable O Enable
Internet Initia zone is for Internet websites, except those listed in trusted and restricted zones.	Allow Scriptlets O Disable O Enable O Prompt
Security level for this zone	Automatic prompting for ActiveX controls O Disable Enable
Custom Custom settings. - To change the settings, click Custom level. - To use the recommended settings, click Default level.	Binary and script behaviors Administrator approved Disable Disnlaw video and animation on a webpane that does not use
<u>C</u> ustom level <u>D</u> efault level	*Takes effect after you restart Internet Explorer
Reset all zones to default level	
OK Cancel Ap	OK Cancel

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.

📖 ΝΟΤΕ

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.

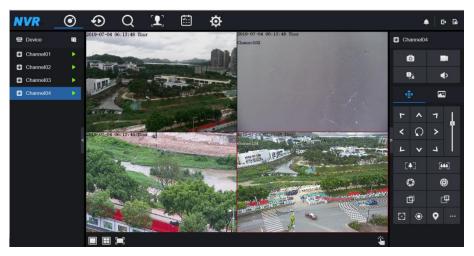


Figure 8-10 Real-time videos interface

----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:: 	Switch stream	Click button to switch stream 1 (main stream) and stream 2(sub stream).	

Table 8-2 Descriptions of homepage

Buttons	Button description	How to operate	
	Enable/Disable video	Click button to enable the audio and click again to disenable the video.	

----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, user can control the PTZ rotation to adjust their shooting angle when you are viewing the video. This allows you to perform Omni-directional video surveillance.

Click the PTZ operation and setting interface is displaying, as shown in Figure 8-11. Table 8-3 describes the operations.



Figure 8-11 PTZ control interface

Table 8-3 Device parameters

Buttons	Button description	How to operate
<pre></pre>	Direction key	Click button to control omni-directional movement of the PTZ.

Buttons	Button description	How to operate
6	Speed slider	Drag the slider to adjust the value of PTZ rotation speed.
[♣]	Zoom in	Click buttons to adjust the focal length.
	Zoom out	
\bigcirc	Iris+	Click buttons to adjust the aperture.
®	Iris-	
Ф	Far focus	Click buttons to adjust the focal length.
þ	Near focus	
5	Auto focus	Click button to focus automatically.
٢	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

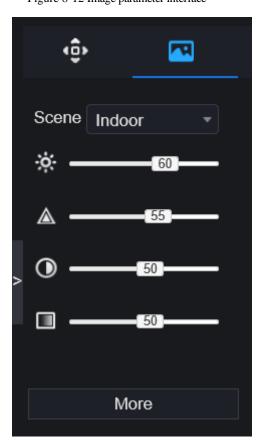
8.3.5 Sensor Setting

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

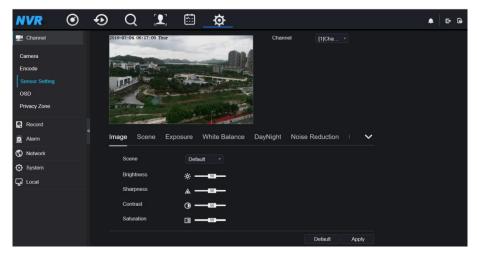


Buttons	Button description	How to operate	
	Brightness	Click button to adjust the image brightness.	
	Sharpness	Click button to adjust the image definition.	
\odot	Contrast	Click button to adjust the transparency of the image.	
	Saturation	Click button to adjust the chromatic purity of the image.	

Table 8-4 Device parameters

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





----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. More POE port will be 16 screens.

----End

8.4 Playback

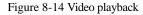
8.4.1 Video Playback

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

Procedure

Step 1 Click in the function navigation bar, the video playback interface is displayed,

as shown in Figure 8-14.





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

An unselected device is marked with

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

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

Step 5 Display videos.

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

The file axis displays videos. The blue file axis indicates a video 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.

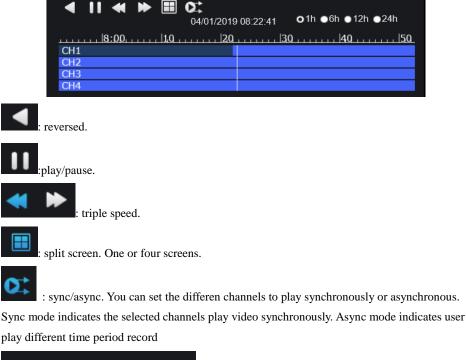
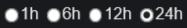


Figure 8-15 Control bar



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 in the function navigation bar, the channel alarm interface is displayed, as

shown in Figure 8-16.

VR (● • <u>Q</u> I	⇔	▲ ⊕
Channel Alarm	System Alarm		τ
ID	Start Time	Channel	Туре
	04/07/2019 08:06:31	Channel03	Stranger
	04/07/2019 08:06:25	Channel03	Stranger
	04/07/2019 08:06:17	Channel03	Stranger
	04/07/2019 08:06:08	Channel03	Stranger
	04/07/2019 08:04:15	Channel03	Stranger
	04/07/2019 08:04:10	Channel03	Stranger
	04/07/2019 08:01:27	Camera03	Video Loss
			Every page show 20 *

Figure 8-16 Channel alarm interface

Step 2 Click at the top right conner, select the channel and type, set start time and end time, as shown in Figure 8-17.

Figure 8-17 Set channel alarm

Channel		All •
Туре	All	•
Start Time	2019/01/03 15:13	3:25
End Time	2019/01/04 15:13	3:25
	Search	

Step 3 Click Search, the result will be displayed as shown in Figure 8-18.



NVR	•	_Q []	¢		• c	÷ [ò
Channel Alarn	n System Alarm						T
ID	Start T	ime		Channel	Туре		
1	04/07/2019	08:01:27		Camera03	Video Loss		
<< <u>1</u> /1 ∶	>>I				Every page sho	w 20	
	E						
Click	I<< 1	/6 >> 	to select	the page of alarm li	ist.		
Eve	ry page sho		•		own in every page.		
End							

8.5.2 System Alarm

Procedure

Step 1 Click **System Alarm** in the channel alarm interface, the system alarm is displayed, as shown in Figure 8-19.

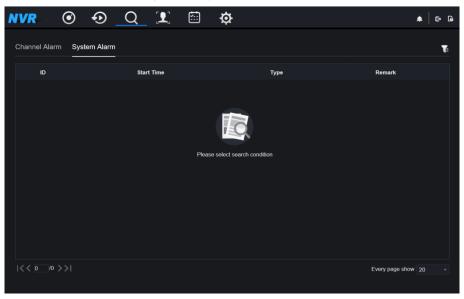


Figure 8-19 System alarm result

Step 2 Click at the top right conner, set the channel, type(alarm in and other), start time and end time, as shown in Figure 8-20.

Figure 8-20 Search system alarm

			Ţ
Туре		All	
Start Time	2019/01/03 1	5:25:03	
End Time	2019/01/04 1	5:25:03	
	Search		

Step 3 Click **Search**, the result will be displayed.

8.6 Attendance

The function is only applicable for NVR2604E1-P4C-J and NVR2608E1-P8C-J

8.6.1 Attendance Data

Click to enter attendance data interface, as shown in Figure 8-21.

NVR Attendance Da	ata Attendance N	lanagement Bac	:k					♠ E+ G
Attendance Library	Attendance Summ	ary						⊥ Export
✓ ☑ Default Lib ☑ MR WANG	Job Number	Name	Department	Required Times	Actual Times	Absence	Late	Early Leave
⊠ LXH ⊠ LBL	100201	MR WANG	Default Lib		0			0
employee 1	10022		Default Lib					
	10023	LBL	Default Lib					
Timo This week *								
Custom time period Start Date 2019-06-30								
2019-07-06 Search Type Attendance Summary 🔹								
Reset Search		Every pag	e show 20 -					

Figure 8-21 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.

8.6.2 Attendance Management

In attendance management, user can set attendance rule, library and check point, as shown in Figure 8-22.

NVR Atte	endance Data	Attendance Management	Back	▲ 단 ଢ
 Attendance Rule Attendance Libra 	iry	Attendance Rule Setting	IS	
Attendance Check P	жР	Working Time: Workday Setting:	Start-work time 10:00 End work time 17:00	
		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	
			nexk in miner solar any more, mark as absent	
				Apply

Figure 8-22 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.

NVR Attendance Data	Attendance Management Back		
 Attendance Rule Set Attendance Library Attendance Check P 	Attendance Library		
	Face Library @ Library Management	Attendance Library	
	⊇ Items ☑ Default Lib	2 Items Default Lib	
	employee 1	employee 1	
		» Add	
		« Delete	
			Save

Figure 8-23 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 8-24.

		8	Attendance eneek por	0					
NVR	Attendance Data	Attendance Management Bac	k				▲ G+ G		
▷ Attendance	Rule Set								
> Attendance	Library	Attendance Check Point Set	tinge						
		Attendance Check Point Settings							
	Channel	Attendance Library	Similarity	Enabled	Operate				
	Channel01	Default Lib	80%	Start	۷				
		Channel02	Default Lib	80%	Start	۷			
		Channel03	Default Lib;employee 1	87%	Start	۷			
		Channel04	Default Lib	80%	Start	۷			

Figure 8-24 Attendance check point setting

Step 2 Click *L* to edit check point setting, as shown in Figure 8-25

Attendance Check Po	int Settings		×
Channel	Channel03		
Enable			
Similarity			+ 87
Attendance Library	All libraries		
	✓ Default Lib		
	employee	1	
		ОК	Cancel

Figure 8-25 Check 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.

8.7 AI Recognition

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

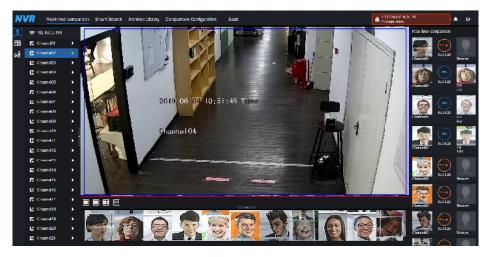
8.7.1 Real Time Comparison

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 **D** to enter the human face comparison interface, choose the cameras with face recognition function to play live video, the snapshot of camera will compare with libraries, the result shows as in Figure 8-26.

Figure 8-26 Human face comparison



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

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 compare with libraries, the result shows as in Figure 8-27.

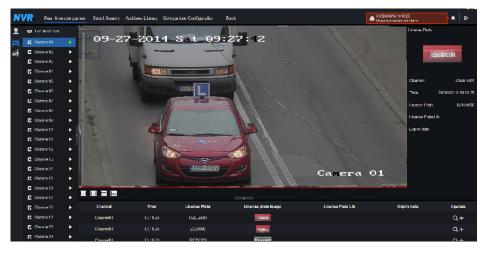


Figure 8-27 Vehicle license plate

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

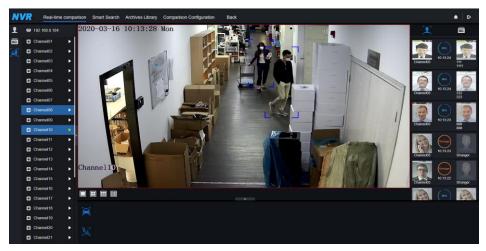
Snapshot in real time video, put the cursor on picture such as **+** , you can add it to face library, or face search. The cursor on area 6 and the pictures is not update, move the mouse so

that the pictures can be shown in time.

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 8-28.

Figure 8-28 Full body



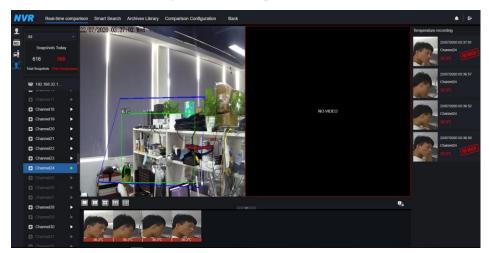
8.7.1.4 Real Time Body Temperature Filter

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

Snapshot will show the char such as no mask(the mask detection configuration can be set at

comparison configuration interface

Figure 8-29 Body temperature

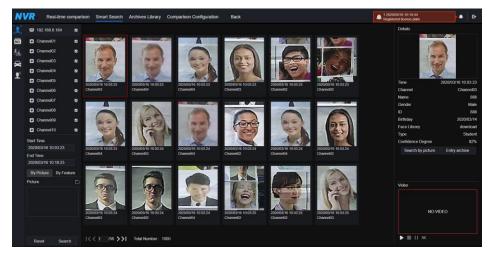


8.7.2 Smart Search

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

8.7.2.1 Human Face Search

Figure 8-30 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 choose 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 detail picture can be used to search or add to library.

Step 7 Click play button of video to play the recording of snapshot.

8.7.2.2 Vehicle License Plate Search

Figure 8-31 Vehicle License Plate search

VR Real-time co	ompariso	n Smart Search	Archives Library Comparison Configu	ration Back		A 3 2020/03/16 10 19 33 Registered personnel alarm	• •
₽ 192.168.8.184		Search result					
Channel01		Channel	Time	License Plate	License plate image	License Plate Lib Expire date	Operate
Channel02							
Channel03		Channel01	2020/03/16 10 17:07	RZ5080C		Never expire	
Channel04		Channel01	2020/03/16 10 17:07		27 2014		
Channel05		Channel01	2020/03/16 10 17:08	500OCC	The second second		+
Channel06					_		
Channel07		Channel01	2020/03/16 10:17:10		27-2014		
Channel08		Channel01	2020/03/16 10 17 10	RZ3958J	TANKING T		
Channel09		Channel01	2020/03/16 10:17:16	RRS05UW	COMPANY OF		+
Channel10					-		
Channel11		Channel01	2020/03/16 10 17 21	26087K	T NACOLA		
Channel12		Channel01	2020/03/16 10 17:23	RNI31TR			
Channel13		Channel01	2020/03/16 10:17:24	RNI31TR	TEAN DIMENTICA		
Channel14		Channel01	2020/03/16 10 17 27	R49440	100000		+
Channel15	8	Charmon	2020/03/10/10/17/27	Reperto	ALC: NO.		
Start Time		Channel01	2020/03/16 10 17:30		27-2014		
2020/03/16 10:04 17 End Time		Channel01	2020/03/16 10:17:30		FARZE 35/92		
2020/03/16 10 19:17		Channel01	2020/03/16 10 17 35	R704701	UP7 24701		+
License plate(optional)					BOD DIMEN		
					and the second second		

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

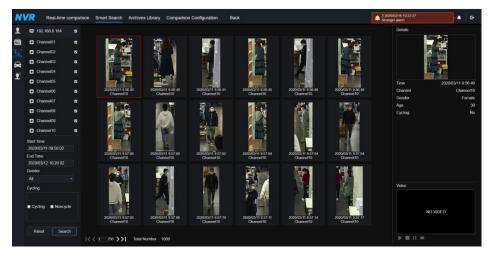


Figure 8-32 Full body search

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

Figure 8-33	Vehicle search
-------------	----------------

VVR R	eal-time co	mparison	Smart Search Archive	s Library Compariso	n Configuration B	ack			▲ 4 200 Regis ▲ E•
😐 192.168									Details
Channe	N01								A DESCRIPTION OF THE OWNER OF
🧞 🖬 Channe	102			a second second				_	And and the owner party of
Channe	103			Contraction of the second	1022	1	CARD OF THE	Contraction of the local division of the loc	-
Channe	104		12 CON	and the second	Contraction of the second		100	A DECEMBER OF	
Channe	105								Time 2020/03/09 11:50:56
Channe Channe	106		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 Channel08
Channe Channe	107								Car color Blue
Channe	808				The second second	and the second second			
Channe	109			COLUMN -	41,000		200	To-	
Channe Channe	110	8	G realing	Surger Street	and a state of the	and ad	-Car		
Start Time			And a lot of the lot o			Same Million		A COLUMN TWO IS NOT THE	
2020/03/09 (End Time			2020/03/09 11:52:09 Channel08	2020/03/09 11:52:52 Channel08	2020/03/09 11:53:32 Channel08	2020/03/09 11:54:00 Channel08	2020/03/09 11:54.00 Channel08	2020/03/09 11:54:01 Channel08	
2020/03/13 Car color	10:24:42								
White	Black							1000	
Red	Gray		200.6	100 L	200	and the	and and	1000	Video
Other			and the second	CORR CON	-	Contraction of the second		1	
			2020/03/09 11:54:01 Channel08	2020/03/09 11 54.02 Channel08	2020/03/09 11:54.03 Channel08	2020/05/09 11:54:03 Channel08	2020/03/09 11 54:04 Charmel08	2020/03/09 11 54 23 Channel08	NO-VIDEO
Reset	Search								
			< 1 /56 >> Total	Number: 1000					> = II ×

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 the detail information show at the top right of page.
- Step 6 Click play button of video to play the recording of snapshot.

8.7.2.5 Body Temperature Search

NV	'R	Real-time co	mparisor	Smart Search Arc	hives Library Comparison Config	uration Back			2 2020/03/16 10:31:03 Stranger alarm	• G•
Ł	😑 19	2.168.8.184		Search result						
NO.	CI		2	Number	Capture Photo	Library Photo	Information	Temperature	Capture Time	
‰	Ch Ch	nannel02	•				Channel01			
	C)	annel03					Stranger	17.7°C	2020/03/09 12:10:49	
°e	Ch 🖸	nannel04	•		a de la caractería de la c					
~	CI CI	annel05					Channel01			
	Ch Ch	annel06					Stranger			
	C)	hannel07							2020/03/09 12:12:10	
	Ch	annel08								
	CI CI	annel09			-		Channel01			
	CI CI	annel10					Stranger		2020/03/09 12:12:12	
	Ch Ch	annel11			and the second se					
	C)	nannel12					Channel01			
	Start Tim						Stranger			
		NO 3/09 10:00:17							2020/03/09 12:12:40	
	End Tim									
		¥13 10:30:17			1000		Channel01			
	Person 1 All	iype .					Stranger		2020/03/09 12:12:44	
		sture Type								
	All D(option						Channel01			
	niobeo	130)					Chantlere I			
	Res	iet Search		I< < 166 / 167 >>	Total Number: 1000					

Figure 8-34 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.

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 be showing by line graph, histogram, or list, as shown in Figure 8-35.

Figure 8-35 Personnel count



8.7.3 Archives Library

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

8.7.3.1 Face Library

Figure	8-36	Face	library
--------	------	------	---------

N	VR R	eal-time com	parison	Smart S	Search	Archives Library	Comparison Configuration	Back			4 2020/00/16 10:32:03 Registered personnel alarm		•	e
[1]	Face Library			+ Add 🔅	< Delete	O Refresh								88
NO.	Select Al													
	🖬 Default L	ю		•	Name	Gender	Birthday		Face Library	Туре	Expire date	Operate		
	d technolo	ay		•		Male	2020/03/14		download	Teacher	Never expire	∠∎		
	🖬 image					Male	2020/03/14		download	Teacher	Never expire	∠ 8		
	a engineer	ing				Fornale	2020/03/14		download	Teacher	Nover 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	∠∎		
	S download													
Γ				1< < 1	14 /144	>> Total Num	per: 2584							

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 the all person in library. Click operate icon to edit or delete the chosen person.

Snapshot in real time video, put the cursor on picture such as **+ 1**, 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.

8.7.3.2 License Plate Library

Figure 8-37 License plate library

N	Real-time	e comparisor	Smart Search	Archives Library	Comparison Configuration	Back		♠ G•
Ł	License Plate Lib		+ Add × Delete	O Refresh				
NO	Select All							
	Default Lib		E Lie	cense Plate	License Plate Lib	Expire date	Remark	Operate
	EU license plate		• F	RRS05UW	EU license plate	2020/03/11 09:07:28-2020/03/11 10:00:00		∠ ŵ
	EUA		•	RZ4316C	EU license plate	Never expire		∠ ŵ
	floor 1st		•	RZE2K86	EU license plate	Never expire		∠ @
			•	RZ84375	EU license plate	Never expire		∠ 🛍
			•	RBR44XV	EU license plate	Never expire		∠ ŵ
			•	RZ4594F	EU license plate	Never expire		∠ ŵ
			•	RZ49466	EU license plate	Never expire		∠ @
				RZ3628K	EU license plate	Never expire		<u>ک</u> ش
			•	RZ31033	EU license plate	Never expire		∠ ŵ
			•	RZE4P99	EU license plate	Never expire		∠ ŵ
				RPZ13649	EU license plate	Never expire		∠ @
			•	RZEHF02	EU license plate	Never expire		∠ ŵ
			•	RZE9EF7	EU license plate	Never expire		∠ ŵ
			•	RZ5615K	EU license plate	Never expire		∠ ŵ
			•	LZ49954	EU license plate	Never expire		∠ ŵ
			•	RLEN286	EU license plate	Never expire		∠ @
			•	RJA2925	EU license plate	Never expire		∠ ₪
			<< 1 /556	>>I Total Num	ber: 10000			

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.

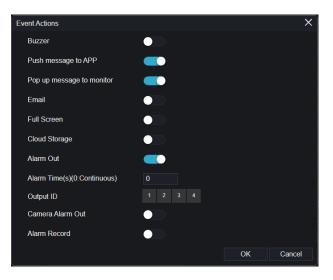
Click operate icon to edit or delete the chosen license plate.

8.7.4 Comparison Configuration

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

Figure 8-38 Face comparison

NVR						A 3 2020/03/16 10 38 49 Registered personnel alarm	
1							
102	Channel	Register Detect Library			Stranger Detect Library		
9°			Edit Strategy				
			Channel	Channel01			
			Similarity	+ 80			
			Register Strang	jør			
			Display comparison res	ilts 🦲			
			Face Library	E Face Library			
				Default Lib			
				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	Setting			
				OK Cancel			



At face comparison interface, user can set different channels' strategy, such as similarity, display comparison result, face library, enable alarming, event action, arming time, as shown in Figure 6-33.

NVR	Real-time comparison Sr	mart Search Archives Library Comparison Configuration Back	Registered personnel alarm	• • c	÷
1	channel12	LU,EUA,Default Lib	🕰 EU,EUA,Default Lib	∠	
(m)	channel13	LU,EUA,Default Lib	LU, EU, Default Lib		
<u>r</u>	channel14	LU,EUA,Default Lib	A EU, EUA, Default Lib		
1	channel15	EU;EUA;Default Lib	LU;EUA;Default Lib		
	channel16	LU;EUA;Default Lb	EU;EUA;Default Lib		
	channel17	Default Lib	Default Lib	∠	
	channel18	Default Lib	Default Lib		
	channel19	Default Lib	Default Lib		
	channel20	Default Lib	Default Lib		
	channel21	Default Lib	Default Lib	∠	
	channel22	Default Lib	Default Lib		
	channel23	Default Lib	Default Lib		
	channol24	Default Lib	Default Lib		
	channol25	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	∠	

T .	0 00	. .	
Figure	8-39	1 icense	comparison
1 15010	0 57	License	companison

At license plate interface, use 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 8-39.



means the library is deleted.

Figure 8-40 Temperature comparison

	2 2020/03/16 10:42:30 Stranger alarm	٠	e
Temperature Configuration			
Low temperature Streshold(0.159.9) 34 °C			
High temperature threshold(0.1-99.9) 43 °C			
Normal temperature(0.1-99.9) 34.5 ¹ C - 37 ¹ C			
Refresh Apply			

At temperature comparison interface, user can set low temperature threshold, high temperature

threshold, normal temperature, as shown in Figure 8-40.

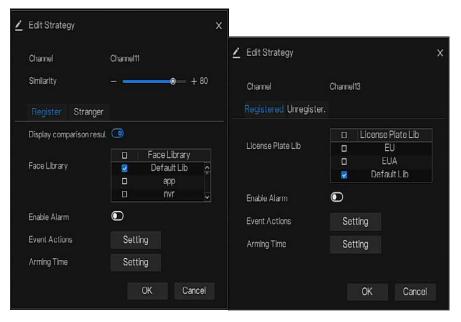


Figure 8-41 Strategy

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 8-42 Mask detection configuration

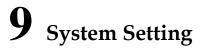
NV	R	Real-time comparison	Smart Search	Archives Library	Comparison Configuration	Back		
₽ NO.	Mask	Detection Configuratio	n Schedule	Linkage				
NO.		Mask Detection Enable		-	•			
[]		Mode		No	Mask +			
		Confidence Degree				90		
							Refresh	Apply

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

Figure 8-43 Schedule linkage

NV	′R	Real-time com	nparison	Smart Search	Archives Library	Comparison Configuration	Back		
	Mask	Detection Cor	nfiguratior	Schedule	Linkage				
₽ °		Enable Alarm		•					
[]			Sched	ule					
		Buzzer		•					
		Push message	to APP						
		Pop up messag	ge to monito	r 🖉					
		Email		•					
		Full Screen		•					
		Cloud Storage		•					
		Alarm Out							
		Alarm Time(s)(0:Continuou	s) 0					
		Output ID							
								Refresh	Apply

The alarm information is relevant to mask detection configuration.



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 💿	Ð	Q	i i		ø				
L Channel									
Camera Encode		Camera	RTSP Co	nnection					
Sensor Setting			Channel	IP Address	Port	Model	Protocol	Firmware Version	Operate
SD ivacy Zone			• CH1	192.168.32.196	30001	IPR57/41AKDN(IK10)/Z2.7-12/13	Private	13.6.0804.1004.3.0.10.0.0_AD_IVSTest2	∠.e
vacy zone I			CH2	192.168.32.222	30001		Private	V3.0SimulateSoftWare_30001	2.ē
rophone			• СНЗ	192.168.32.5	30001	IPR5821BZAN-J2-B8.0-13	Private	v3.6.0804.1004.3.0.10.7.0	∠.e…
an Thormometer			CH4	192.168.32.175	30001	IPR57/41AQDN/13	Private	13.6.0804.1004.3.0.10.10.0	∠.©
		Ľ	CH5	192 168 32 166	30001	IPV57/80HDR/28	Private	v3.5.0807 1004.1.0.32.3.1	∠.0
ecord			• CH6	192.168.32.171	30001	IPR5821BZAN-J2-B8.0-13	Private	v3.6.0804 1004 3.0.10 11.0	∠.e
		Ľ	CH7	192 168 32 162	30001	IPR57/41APDN/Z/13	Private	13 6 0804 1004 3 0 11 0 0	∠.e
m			CH8	192, 168, 32, 161	30001	IPV5702GDR-Z/13	Private	v3.5.0812 1004.3.0.33.0.0	∠.6
work			CH9	192.168.32.145	30001		Private	13.6.0819 1004.3.0.10.8.0	∠.0
stem			CH10		30001	IPR57/20AKDN/T/Z2 7-12/13	Privato	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	∠.ē
			CH12	192.168.32.155		EN-CDUM-008	ONVIE	v3.5.0804.1004.88.1.33.7.14	∠e
						IDDSRIADADDN/13			
					Usemame	admin Password ·····	Mr Add Device	es Search Refresh Delete	Batch Update

Figure 9-1 Camera interface

Step 1 Input username and password (the default value both are admin), and click Click To Add

add cameras automatically.

Search

Step 2 Click

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

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

Camer	a	Proto	col Management					
		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 ad	min	Password Stop St	earch(2s)	Add Refresh Back	
Step 3	Cli	ick	Back t	o back	to camera interface.			
Step 4	Cli	ick	Refresh _{to}	refresh	a cameras status.			
Step 5	Step 5 Choose the cameras and click Delete to delete.							
Step 6	Step 6 Click Batch Update to update all selected cameras at once, the pop-up window would							
	sh	now	to select softwar	e.				
Step 7	Cli	ick	L to modif	y the in	formation of device paran	neters, as s	shown in Figure 9-3.	

Figure 9-3 Mo	dify device para	imeters	
Modify device parameters			×
Channel Name	Channel06		
IP Address	192.168.0.232		
Protocol	Private_SSL •		
Port	20001		
Username	admin		
Password	•••••	ب یر	
Remote Channel	CH-1 *		
		Cancel	ОК

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

Man	ually Add Devices		×
	Channel	IP	Protocol
	CH1	192.168.32.196:30001	Private
	CH2	192.168.32.222:30001	Private
	СНЗ	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	•••••	heret
	Remote Channel	CH-1 -	
			OK Cancel

Step 9 Click to access web immediately.



Step 10 Click

to update, reboot or reset the selected camera, as

shows.

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

🛄 ΝΟΤΕ

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

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

9.1.1.1 Protocol Management

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

Figure 9-5 Protocol management

Camera Protocol Managemen	t
Custom Protocol	Custom Protocol 1 *
Protocol Name	Custom 1
Stream Type	ujiMain Stream _Sub Stream
Туре	RTSP · RTSP ·
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, it depends the IP camera.
- Step 7 Input the path, it depends 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,

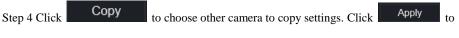
as shown in Figure 9-6.

Figure	9-6	Encode	interface
--------	-----	--------	-----------

Enco	de	
	Channel	[1]Channel01 *
	Stream Information	Main Stream *
	Video Encode Type	H265 +
	Audio Encode Type	G711A •
	Resolution	4000x3000 ·
	Frame Rate(fps)	20 •
	I Frame Interval(Frame)	40 🔻
	Bitrate Type	CBR -
	Bitrate(kbps)(500-4096)	4096 *
		Copy Apply

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.



save the settings.

----End

9.1.3 Sensor Setting

Step 1 On the System Setting screen, choose Channel >Sensor Setting to access the sensor

setting interface, as shown in Figure 9-7.

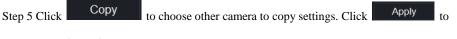
Figure 9-7 Image interface

NVR 💿	⊕ Q <u></u>	▲ 스 단 @
👥 Channel		
Camera Encode Sensor Satting OSD Privacy Zone Record	Sensor Setting	
and the second se	a Cashe an	
System	Channel [1]Cha	
Ge Local	Image Scene Exposure White Balance DayNight Noise Redu ✓ Scene Default → Brightness ☆ 50- Sharpness ▲ 50- Contrast 0 - 50-	
	Saturation 🔲 — 📾 —	
	Default Apply	

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, user can refer IP cameras' settings.



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

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

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

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

Day-night: user 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: user can zoom and focus.

----End

9.1.4 OSD

Step 1 On the System Setting screen, choose Channel >OSD to access the OSD interface, as

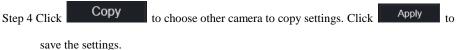
shown in Figure 5-4

NVR 💿	• Q <u>\$</u>	▲ 스 단 @
🚅 Channel		
Camera Encode	OSD Channel [1]Chann *	
Sensor Setting	Time	
Privacy Zone	Channel Name Channel01	
Record		
🚊 Alarm	86/29/2019 11:18:02 Tues	
W Network		
System	Basec101 Te	
G Local	2 2222	
	Copy Apply	

Figure 9-8 OSD interface

Step 2 Select a channel and scene from drop list.

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



----End

9.1.5 Privacy Zone

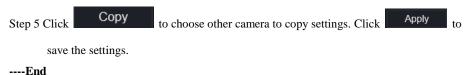
Step 1 On the System Setting screen, choose Channel >Privacy Zone to access the privacy zone interface, as shown in Figure 9-9.

NVR ③	Ð) Q <u> </u>	ه ه e 6
E Channel			
Camera		Privacy Zone	
Encode			
Sensor Setting OSD		24/09/2019 11:18:29 Tues < \lambda >	
Privacy Zone			
Record		Channel 01	
🚊 Alarm			
S Network			
O System		Channel [1]Cha *	
G Local			Apply
		- Supports up to 4 zones	

Figure 9-9 Privacy interface

Step 2 Select a channel from drop-down list .

- Step 3 Drag the mouse to select area to cover with rectangle frame. You can set less than four areas to be covered. Double click would delete the area.
- Step 4 PTZ can be used for adjusting the IP dome cameras.



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 9-10 ROI

👥 Channel				
Camera				
Encode	ROI			
Sensor Setting	22/07/2020 00109:04 Vol.	Channel	[28]Channel28 +	
OSD	Chapme 120	Stream	Sub Stream -	
Privacy Zone		Area ID		
		Enable		
Microphone	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Human Thermometer		Level		
Smart		Area Name		
Record	- Note: Max size 50%			
Alarm	- Right click to remove the zones drawn			Apply
Network	- Only special characters are supported 1@#\$^*06[].?			
System				

9.1.7 Microphone

User can set the microphone parameters of channel.

Figure 9-11 Microphone

🛒 Channel			
-			
Camera	Microphone		
Encode			
Sensor Setting	Channel	[1]Channel01 *	
OSD			
Privacy Zone	Microphone		
ROI	Microphone Type	Line In 🔹	
Microphone	Microphone Volume		
Human Thermometer			
Smart			Apply
_			
Record			
🚊 Alarm			
S Network			
System			

9.1.8 Human Thermometer

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

Channel					
Camera					
Encode	Parameter Configure Thermal	I Mapping Thermal Ca	libration		
Sensor Setting			Channel [24]Ch	annel24 -	
OSD		MO AND			
Privacy Zone					
ROI					
Microphone		Marcella .			
Smart <					
Record		Cle	ar		
2 Alarm	Face Detection Temperature I	Parameters Low temp	erature alarm linkage Normal terr	nperature alarm linkage High	`
Network	Face Detection	-	Snapshot Mode	Timer	
System					
	Display Trace Info	Mode1 -	Upload Image Interval(1-10s)		
	Show Detection Area		Yaw Degree(0-90)		
	Confidence Degree	High 🔫	Tilt Degree(0-90)		
	Confidence Degree Area ID	High •	Tilt Degree(0-90) Pitch Degree(0-90)		
	Area ID Face Pixel Min(1-2000)		Pitch Degree(0-90) FTP upload image matting	90	
	Area ID Face Pixel Min(1-2000) Face Pixel Max(1-2000)	1 - 40 2000	Pitch Degree(0-90) FTP upload image matting FTP upload whole image	90 •	
	Area ID Face Pixel Min(1-2000)		Pitch Degree(0-90) FTP upload image matting	90	

Figure 9-12 Human thermometer

9.1.9 Smart

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

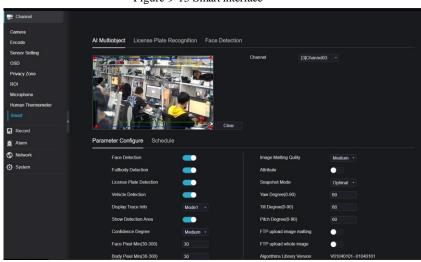


Figure 9-13 Smart interface

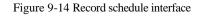
9.2 Record

Users can set record policy in storage interface.

9.2.1 Record Schedule

Procedure

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



🛃 Channel	
Record	
	Record Schedule
Disk	Channel [1]Channel01 *
Storage Mode RAID	Rocord Enable C
S.M.A.R.T	Record Audio
Cloud Storage	All t 2 4 6 8 10 12 14 16 18 20 22 24 Sun t
🚊 Alarm	Mon t Tue t
S Network <	Wood as a construction of the construction of
⊘ System	Thu ≑ International Control of C
	Copy Refresh Apply

Step 2 Select a channel .

Step 3 Enable the record, then enable record audio.

Step 4 Set the record schedule, you can drag the mouse to choose area, click **w** 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. User can set the alarm recording to save the space of disk.

 Step 5 Click
 Refresh
 to return the previous settings.

 Step 6 Click
 Copy
 to choose other camera to copy settings. Click
 Apply
 to save

 the settings.
 to choose other camera to copy settings.
 Click
 Apply
 to save

----End

9.2.2 Disk

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

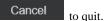
Figure 9-15 Disk interface

Disk				
ć	Disk1 Capacity 1TB	HDD Disk2 HDD Disk3 Capacity 4TB Capacity 4TB		
4	Disk4 Capacity 3TB			
			Format	
	Disk Status	Normal		
	Disk SN	WD-WCC4J3DZ16JL		
	Used Space	985GB		
	Disk Group			
	Recording Overwrite	-		
			Apply	

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

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

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



Step 4 Choose the disk group from drop-down list, there are four disk group.

Step 5 If the recording overwrite is disable, user need to set the expired time, it is up to 90 days. ----End

9.2.3 RAID

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

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 are better same for efficient using.

Figure 9-16 RAID

NVR	۲	€	Q	C]	¢						د ک	G• Gø
📑 Channel												
Record												
Record Schedule			RAID									
Disk					RAID Name	Capacity	Status	Туре	HDD Members	Operate		
RAID												
SMART												
🚊 Alarm												
S Network												
System												
G Local												
										Create		a
												V

Operation Steps

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

Create RAID				×
RAID Type		RAID 5 🔹		
	Name	Capacity	Hotsp	are Disk
	Disk1	2TB		
	Disk2	6TB		
	Disk3	6TB		
	Disk4	ЗТВ		
	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 more than basic disks.

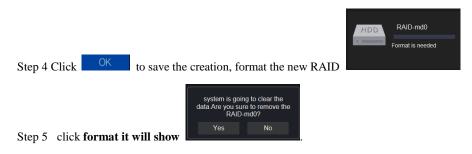


Figure 9-17 Modify the RAID

			U		5			
RAID	-md0							X
	RAID Name		RAID-md0		Туре	RAID 5		
	Capacity				Members	Disk1,2,3,4,5		
	ID	Name	Capacity	Status	Туре	Hotspare Disk	Operate	
		Disk1	2TB	Active	RAID 5			
		Disk2		Active	RAID 5			
		Disk3		Active	RAID 5	No		
		Disk4		Active	RAID 5			
		Disk5		Spare	RAID 5	Yes	0	
		Disk6			HDD			
		Disk7			HDD		+	
		Disk8			HDD			

9.2.4 S.M.A.R.T

S.M.A.R.T is Self-Monitoring Analysis and Reporting Technology, user can view the health of disk, as shown in Figure 9-18.

NVR	۲	€) (Q _	₿	_							٠	د ه
🚅 Channel														
Record			S.M.A.	R.T										
Record Schedule Disk S.M.A.R.T				Disk Disk SN		Disk1 * Z1E2LCPB)isk Mode	el S	ST2000√X00	00-1CU164		
i Alarm				Temperat	ture	41.0 C		v	Vorking T	Time 2	.4 Year			
Network				Disk Heal	lth	GOOD								
 System 				ID	Attrik	ute Name	Status	Value	Worst	Thresh	Туре	Raw value		
Co Local					raw-rea	id-error-rate	ок	118	86		prefail	0x18de840a0000		
To 50001					spir	-up-time	ок	96			prefail	0x0000000000000		
					start-	stop-count	ок	100	100		old-age	0x7d020000000		
				5 re	allocate	d-sector-count	ок	100	100		prefail	0x700000000000		
					seek	error-rate	ок		60		prefail	0xef19830d0c00		
					powe	r-on-hours	ок				old-age	0x995200000000		
				10	spin-i	etry-count	ок	100	100		prefail	0x00000000000000		
				12	power-	cycle-count	ок	100	100		old-age	0x57020000000		
			1	184	end-to	end-error	BAD			99	old-age	0x030000000000		
			1		reporte	d-uncorrect	ок	98	98		old-age	0x020000000000		
			1	188	comma	and-timeout	ок	100			old-age	0x25000b000800		
			1	189	high	fly-writes	ок				old-aqe	0x5b1100000000		

Figure 9-18 S.M.A.R.T

9.2.5 Storage Mode

User is based on need to distribute the channels to different disk group, and use disk capacity reasonably.

Figure 9-19 Storage Mode

		0					0				
Storage M	lode										
	Mode Selection	0	Grou	qı							
	Disk Group										
	Channel	1	2	3	4	5	6	7	8		
		9	10	11	12	13	14	15	16		
		17	19	10	20	21	າາ	23	24		
											A material
											Apply
Group	Disk		Char	nnel					Used Space	Capacity	,
	Disk1		1-1	6					985GB	1000GB	
2	Disk2		17-:	32					733GB	4.0TB	
	Disk3		33-	48					753GB	4.0TB	
4	Disk4		49-	64					2.9TB	3.0TB	

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.

9.2.6 Cloud Storage

User copy the authorization code path to browser to enter Google Drive interface. Google send the code, and user input the code to authority NVR, so the device can set the alarm recording to Google drive.

Figure 9-20 Cloud Storage

Cloud Stora	age			
	Enable			
	Cloud Type	Google Drive 🔹		
	Certification Status	Authentication failed		
	Authorization code path	https://accounts.google.ce	om/o/oau	
	Authorization code		Send	

User should 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.

9.3 Alarm

User can set general, motion detection, video loss, intelligent analysis and alarm in on alarm interface.

9.3.1 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 9-21.

Figure 9-21 General interface

Enable Alarm					
Duration Time	10s				
Buzzer duration time	30s				
				Refresh	Apply
			-		

----End

9.3.2 Motion Detection

Procedure

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

Motion	Detection		
	Channel		[1]Channel01 -
	Enable		• -
	Event Acti	🖽 Area	E Schedule
	Buzzer		
	Push message	to APP	
	Pop up messag	ge to monitor	
	Full Screen		
	Email		
	Cloud Storage		
	Alarm Out		
	Alarm Time(s)(0:Continuous)	
	Output ID		
	Channel Alarm	Out	
	Alarm Record		
			Copy Apply

Figure 9-22 Motion detection interface

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

- Step 3 Enable motion detection alarm.
- Step 4 Set **Event Activity**, 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 9-23.

Motion Detection			
Channel Enable	3] •	JChannel03 -	
Event Acti	III Area	Schedule	
Channe 103 Sensitivity		ligh •	
			Copy Apply

Figure 9-23 Motion detection area interface

- 1. Hold down and drag the left mouse button to draw a motion detection area.
- 2. Select a value from the drop-down list next to Sensitivity.
- 3. Double -click the chosen area to delete.
- 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 camera 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 9-24.

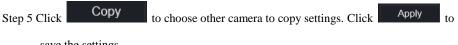
Figure 9-24 Video loss interface

💻 Channel		
Record	Video Loss	
🚊 Alarm		
General	Channel [1]Chan *	
Motion Detection	Enable C	
Video Loss		
Intelligent Analysis	Event Acti	
Alarm In	Buzzer	
Abnormal Alarm	Alarm Out 📃	
S Network	Push message to APP	
System	Pop up message to monitor 🦲	
G Local	Email	
	Alarm Record	
	Copy Apply	

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 .



save the settings.

----End

9.3.4 Intelligent Analysis

Procedure

Please refer to chapter 7.4.1 video loss settings, interface displayed as shown in Figure 9-25.

	ε	υ	2		
Perimeter	Single Virtual Fence	Double Virtual Fences	Object Left	Signal Bad	Advanced
	Channel	[1]Channel01 🔹			
	Enable	\bullet			
	ti 江 Area	Schedule			
	Buzzer				
	Push message to APP				
	Pop up message to monitor				
	Full Screen				
	Email	\bullet			
	Cloud Storage				
	Alarm Out				
	Alarm Time(s)(0:Continuous)				
	Output ID				
	Channel Alarm Out				
	Alarm Record				
					Apply

Figure 9-25 Intelligent analysis interface

9.3.5 Alarm In

Procedure

Step 1 On the System Setting screen, choose Alarm > Alarm In to access the alarm in interface,

as shown in Figure 9-26.

			-	
Alarm	In			
	Alarm In		[1]Alarm In	
	Enable			
	Alarm Type		N/O	
	Name		Sensor 1	
	Event Acti	E Schedule		
	Buzzer		\bullet	
	Push message	to APP		
	Pop up messag	ge to monitor		
	Email			
	Alarm Out			
	Alarm Time(s)(0:Continuous)		
	Output ID			
	Alarm Record			

Figure 9-26 Alarm in interface

Apply

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

Step 3 Enable the button, choose alarm type.

Step 4 Set name, default is Sensor 1.

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

Step 6 Click Apply to save settings.

----End

9.3.6 Abnormal Alarm

Procedure

Step 1 On the **System Setting** screen, choose **Alarm** > **Abnormal Alarm** to access the abnormal alarm interface, as shown in Figure 6-11.

Abnormal Alarm	
Enable	
Alarm Type	
Event Acti	
Buzzer	
Push message to APP	
Pop up message to monitor	
Email	
Alarm Out	
Alarm Time(s)(0:Continuous)	
Output ID	
	Refresh Apply

Figure 9-27 Abnormal alarm interface

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

Step 3 Enable the button, tick alarm type.

Step 4 Set name, default is Sensor 1.

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

Step 6 Click Apply to save settings.

----End

9.3.7 Alarm out

Set the alarm out, the device an cameras.

Figure 9-28 Alarm out

Channel	_					
Record	Alarm Out	Camera Alarm Out				
🖻 Alarm		Camera Alarm Out				
General		Alarm Out	[1]Alarm Out -			
Motion Detection Video Loss		Name				
Intelligent Analysis		Valid signal	Close *			
Alarm In		Alarm Output Mode	Switch Mode *			
Abnormal Alarm				Refresh Apply		
Alarm Out						
S Network						
System						
	Figure 9-29 Camera alarm out					
		-				
Alarm Out	Camera Alarm Out					
	Channel	[1]Channel01				
	Output ID					
	Name					
	Valid signal	Close				
	Alarm Output Mode	Switch Mode				
	Alarm Time(ms)(0:Continu	ious) 0				
				Refresh Apply		

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 9-30.

Figure 9-30 Network interface

IP P	ORT	
_	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	144.144.144.144
	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 9-31.

Figure 9-31 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	

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.

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

9.4.2 DDNS

Procedure

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

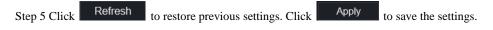
Figure 9-32	DDNS interface

🚅 Channel					
Record	DDNS				
🚊 Alarm					
S Network		Enable			
Network		Protocol	no_ip *		
		Domain Name	dvr.ddns.net		
l Email		User			
Port Mapping		Password			
P2P			Test		
IP Filter					
802.1X				Refresh	Apply
SNMP					
Web Mode					
😧 System					
🖵 Local					
G Local					

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.



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

----End

9.4.3 E-mail

Procedure

Step 1 Click \mathbf{E} -mail in the network interface, choose $\mathbf{Network} > \mathbf{E}$ -mail to access the \mathbf{E} -mail

interface, as shown in Figure 9-33

	Channel						
ୟ	Record	Email					
2	Alarm						
\odot	Network		SMTP Server				
N	etwork		SMTP Server Port				
	DNS		Username				
			Password				
'P	ort Mapping		Email Sender				
Р	2P <		Email for password reco				
IF	P Filter		Alarm Receiver 1				
	02.1X		Alarm Receiver 2				
s	NMP						
v	/eb Mode		Alarm Receiver 3				
ð	System		SSL Encryption	OFF *			
	Local			Test			
.					Refresh	Apply	

Figure 9-33 E-mail interface

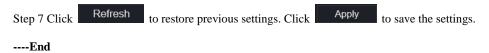
Step 2 Set SMTP server and SMTP server port manually.

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

Step 4 Set E-mail for receive alarm the message.

Step 5 Set E-mail for retrieve the password the message.

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



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

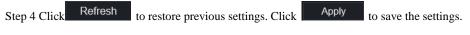
access the UPnP interface as shown in Figure 9-34.

Figure 9-34 Port Mapping interface

NVR	\odot	€	Q		C]	[51]	Ø					
Deannel												
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												E.
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.



Auto :system perform UPnP automatically.

Manual : the ports distribute by router, you need to refer router then input them.

9.4.4.2 NAT port

Figure 9-35 NAT port

📜 Channel					
Record					
🚊 Alarm	Port Mapping	NAT Port			
S Network	ete	urt Port	50002		
	36	at Folt	30002		
Network	En	d Port			
DDNS					
Email	Po	rt range [40001-65534]			
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 9-36.

Figure 9-36 P2P interface

P2P			
	Enable		
	Status	Offline	
		B011003ADKT7B194K	
	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 the Inview Pro 4 is installed in mobile phone, run the APP and scan the UUID QR code to add then access the NVR when the device is online.

----End

9.4.6 IP Filter

Procedure

Step 1 Click IP Filter in the network interface, choose Network > IP Filter to access the IP filter interface, as shown in Figure 9-37.

Figure 9-37 IP filter interface

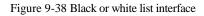
IP Filter						
	IP Filter					
	Rule Type			Black List 🔻		
	Black List(Following netwo	rk segments are forbidden)		+ -		
	-	Start IP	End IP	E	dit	
					Refresh	Apply

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.

Step 4 Click ,view the pop-up windows to set black list or white list, as shown in 7.5.5.

to delete the list.



Add Ip Segment		×
Start IP		
End IP		
	Cancel	ок
Step 5 Set start IP and end IP.		
Step 6 Click Cancel to deny setting	gs, click OK	to save the settings.

Click

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

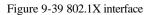
----End

9.4.7 802.1X

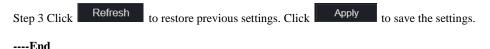
Procedure

Step 1 Click **802.1X** in the network interface, 802.1X interface is displayed, enable the button, as shown in Figure 9-39.

802.1X			
	Enable	••	
	User		
	Password		
			Refresh Apply



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



9.4.8 SNMP

Procedure

Step 1 Click SNMP in the network interface, SNMP interface is displayed, enable the button

aside of SNMPV1, as shown in Figure 9-40.

Figure 9-40	SNMP	interface
-------------	------	-----------

SNMP		
SNMPV1	-	
SNMPV2C		
Write Community	b	
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 three types of that function. User can apply that if need.

Parameter	Description	Setting
SMTP Server	IP address of the SMTP server.	[Setting method]
Address		Enter a value manually.
SMTP Server	Port number of the SMTP server.	[Setting method]
Port		Enter a value manually.
		[Default value]
		25
User Name	User name of the mailbox for	[Setting method]
	sending emails.	Enter a value manually.
Password	Password of the mailbox for	[Setting method]
	sending emails.	Enter a value manually.
Sender E-mail	Mailbox for sending emails.	[Setting method]
Address		Enter a value manually.
Recipient_E-	(Mandatory) Email address of	[Setting method]
mail_Address1	recipient 1.	Enter a value manually.
Recipient_E-	(Optional) Email address of	
mail_Address2	recipient 2.	
Recipient_E-	(Optional) Email address of	
mail_Address3	recipient 3.	
Recipient_E-	(Optional) Email address of	
mail_Address4	recipient 4.	
Recipient_E-	(Optional) Email address of	
mail_Address5	recipient 5.	

Table 9-1	SNMP	parameters
-----------	------	------------

	Parameter	Description	Setting
Mode parameter based on the encryption Select a value from		more storage space. Set this parameter based on the site	N/A
server. [Default value] No Encrypted	1	parameter based on the encryption modes supported by the SMTP	Select a value from the drop-down list box. [Default value]

----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.

Figure 9-41	Web me	ode interface
-------------	--------	---------------

🚅 Channel		
Record	Web Mode	
逆 Alarm		
S Network	HTTPS	
Network	Modifying the settings device will restart! Refres	sh Apply
DDNS		
Email		
Port Mapping		
P2P		
IP Filter		
802.1X		
SNMP		
Web Mode		
System		
G Local		

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

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

----End

9.4.10 3G/4G

Figure 9-42 3G/4G

3G/4G			
Enable			
Status	Disconnected		
Access Mode			
APN			
Dial Number			
Username			
Password	net		
IP Address			
		Refresh	Apply

Step 1 The user plug the modem to NVR.

Step 2 Enable the 3G/4G.

Step 3 When the status is connected, user can set the access mode, AUTO is recommended.

Step 4 If choose other access mode, user should input the parameter correctly.

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

9.4.11 PPPOE

User can use PPPOE function to manage the NVR conveniently.

Figure 9-43 PPPOE

PPPOE					
	Enable				
	Username				
	Password	net.			
	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 setting	s. Click	Apply	to save the settings.
Step 5 User u	se the IP add	ess to access NVR immedi	ately.		

9.5 System

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

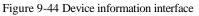
9.5.1 Device Information

Procedure



on the navigation bar, the device information interface is displayed, as

shown in Figure 9-44.



Information		
Device	: ID	B011003ADKT7B194K
Device	Name	Device
Device	туре	NVR
Model		NVR3664E8
Firmwa	are Version	t4.4.0832.0000.003.0.0.7.0
U-boot	Version	130B190E1D01
Kernel	Version	130C030B1E37
HDD N	lumber	4
Chann	els Supported	64
Alarm	In	16
Alarm	Out	4
Audio I	In	
Audio	Out	

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]

Parameter	Description	Setting
Model		These parameters cannot be
Firmware version		modified.
HDD volume		
Channel support		
Alarm in		
Alarm out		
Audio in		
Audio out		

----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 9-45.

Figure 9-45 Basic setting interface

🛒 Channel						
Record	System	Date And Time T	ime Zone 🏾 [DST		
🚊 Alarm						
S Network		Device Name	Device			
😧 System		Output Resolution	1920x1080 -			
Information		Language				
					Refresh	Apply
User						
Password						
Logs						
Maintenance						
Auto Restart						
🖵 Local						

Step 2 Set system.

- 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, as shown in Figure 5-8.
- 2. Click NTP Sync button to enable synchronize time. The default value is enabling.

Figure 9-46 System interface

📑 Channel						
Record	System	Date And Time	Time Zone	DST		
🖻 Alarm		Date And Time		031		
S Network		Device Name	Device			
😧 System		Output Resolution	1920x1080			
Information		Language				
General					Refresh	Apply
User						
Password						
Logs						
Maintenance						
Auto Restart						
Local						

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 9-47.
- 6. Click NTP Sync button to disable synchronize time.
- 7. Async date and time interface



🚅 Channel		
Record	System Date And Time Time Zone DST	
🚊 Alarm		
S Network	Date Format DD/MM/YY h *	
🧿 System	Time Format 24H *	
Information	NTP Sync	
General	NTP Server time.windows.co/+	
User <	Frequency of Checks. Mi 86400s	
Password	Time 05/07/2019 03:49:4:	
Logs		
Maintenance	Refresh Apply	
Auto Restart		
🖵 Local		

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-

48.

Time zone setting interface

Figure 9-48 Time zone

💻 Channel						
Record	Sustem	Date And Time	Time Zone	DST		
🚊 Alarm	System	Date And Time		031		
S Network		Time Zone	(GMT+00:0	00) Dublin, Edinbu 🔻		
 System 					Refresh	Apply
Information						
General						
User	<					
Password						
Logs						
Maintenance						
Auto Restart						
Ge Local						

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 9-49. The button is disable by default.

Figure 9-49 DST setting interface

🖵 Channel								
Record	System	Date And Time	e Time Zo	one DST				
🖻 Alarm	Gystern							
S Network		Daylight Savings						
🗿 System		Start Time	Mar	 Last one 	* Sun	• 1:00		
Information		End Time	Oct	• Last one	* Sun	▼ 1:00		
		Offset Time	1 Hour					
User							Refresh	Apply
Password								
Logs								
Maintenance								
Auto Restart								
🖵 Local								
	Select a start	time from th	e drop-	down lis	st.			

Select a end time from the drop-down list.

Select an offset time from the drop-down list.

Click	Apply	to save the DST setting. Click	Refresh	to return to
previous setting.				

9.5.3 User

You can create new user accounts to manage the device.

9.5.3.1 Add User

Procedure

Step 1 On the System Setting screen, choose System >User to access the User interface, as

shown in Figure 9-50.

Figure 9-50 User interface

🚅 Channel					
Record	114	er Adv.	.Setting		
🖻 Alarm	-		Joeung		
S Network		ID	Username	Group	Operate
System			admin	Super admin	۷
Information					
General					
User	<				
Password					
Logs					
Maintenance					
Auto Restart					
🖵 Local					Add

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

Figure 9-51 Add user

Add User	×
Username	Ø
Password	کیر <i>ا</i>
Confirm Password	Q
Group	Administrators 🔹
Change password reminder	Never 🔹
Expire date	13/01/2020
Live Preview	☑ All Channel ☑ CH-1
V PTZ	
☑ Playback	☑ CH-2
🗸 Channel Management	☑ CH-3
✓ Device Management	☑ CH-4
System Management	Live Preview
System Management	OK Cancel
	OK Calicei

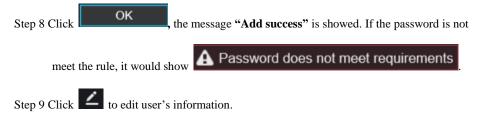
Step 3 Input username, password and confirm password.

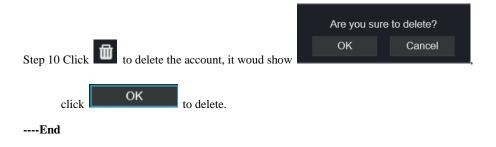
Step 4 Select group and change password reminder from drop-down list.

Step 5 Assign the privilege to 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 9-52.

NVR	۲	€	Q	Ø			•	G €
💻 Channel								
Record		User	Adv.Setting					
🙍 Alarm			Password double	authonti				
👤 Network			Fassword double					
🗿 System					Refresh	Apply		
Information								
General								
User		<						
Password								
Logs								
Maintenance								
Auto Restart								
G Local								

Step 2 Enable the **Password double authentication**. If the user want to playback video , he need input another username and password to authenticate.

Step 3 Click Apply to save the device time setting. Click Refresh to return to

previous setting.

9.5.4 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 9-53.

Figure 9-53 Password interface

Password	Secure Email	Secure (Question				
	Old Password			$\sum_{i=1}^{n}$			
	New Password			9			
	Confirm Password						
						Refresh	Apply

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



🛄 ΝΟΤΕ

Valid password range [6-32] characters.

At least 2 kinds of numbers, lowercase, uppercase or special character contained.

Only special characters are support !@#\$*+=-.

9.5.4.2 Secure Email

The secure email can receive the verification code of NVR, if user forgot the password accidentally.

Password	Secure Email	Secure Question	
	Password	~~~	
	E-mail		
		Refres	h Apply

9.5.4.3 Secure Question

User can modify the password to login the NVR if user forgot the password and answer correctly the secure questions.

Password	Secure Email	Secure C	Question			
	Password					
	Question one		The brand and model of your favorite car			
	Question one answer					
	Question two		Your favorite team			
	Question two answer					
	Question three		Your favorite city			
	Question three answe	er				
 Please enter at least 1 characters for the answer Please enter up to 32 characters for the answer 					Refresh	Apply
- riease enter u	ip to 52 characters for the	answei				

----End

9.5.5 Logs

Procedure

Step 1 On the **System Setting** screen, choose **System >Logs** to access logs interface, as shown in Figure 9-54.

			Figure 9-54	Logs III	lenace	
👥 Channel						
Record	Log	e				
🚊 Alarm	Log	3				
S Network		Start 2	019/07/04 03:48:10 End 20	19/07/05 03:48:10) Log Type All	* Export Search
😧 System		ID	Start Time	Channel	Туре	Information
Information			05/07/2019 03:48:08		Logout	[admin] 192.168.32.105 logout
			05/07/2019 02:54:00		Login	[admin] 192.168.32.105 login
General			05/07/2019 02:00:09		Logout	[admin] 192.168.32.105 logout
User			05/07/2019 01:59:40		Login	[admin] 192.168.32.105 login
Password			05/07/2019 01:58:15		Logout	[admin] 192.168.32.105 logout
Logs		6	05/07/2019 01:56:53		Login	[admin] 192.168.32.105 login
Maintenance		7	05/07/2019 01:53:17		Logout	[admin] 192.168.32.105 logout
Auto Restart			05/07/2019 00:43:59		Login	[admin] 192.168.32.105 login
_			04/07/2019 11:33:08		Logout	[admin] 192.168.32.130 logout
Local			04/07/2019 11:32:59		Login	[admin] 192.168.32.130 login
			04/07/2019 11:32:44		Logout	[admin] 192.168.32.130 logout
			04/07/2019 11:32:20		Login	[admin] 192.168.32.130 login
			N4/N7/2019 10-35-49		Lonout	fadmin1 192 168 32 105 Innout
			1 /12 >>			Every page show 20 *

Figure 9-54 Logs interface

Step 2 Set start and end time from calendar.

Step 3 Select log type from drop-down list.

Step 4 Click Search to acquire log information.

Step 5 Click **Export** to export the logs.

----End

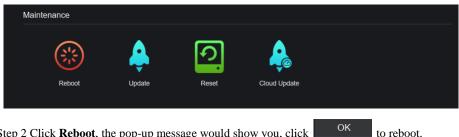
9.5.6 Maintenance

Procedure

Step 1 On the System Setting screen, choose System >Maintenance to access maintenance

interface, as shown in Figure 9-55.

Figure 9-55 Maintenance interface



Step 2 Click **Reboot**, the pop-up message would show you, click

Step 3 Click Update , the message shows specific location to update.	Update Pic	ease select upgrade file	choose software from
Step 4 Click Reset , the pop-up message	Click 'OK' to reso OK Ca	ancel	to you, click

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 Restart

Procedure

Step 1 On the System Setting screen, choose System > Auto Restart to access auto restart

enable the auto restart, the screen as shown in Figure 9-56.

Figure 9-56 Auto restart

💻 Channel	
Record	Auto Restart
🚊 Alarm	
S Network	
System	Restart Time Per Day * 0:00 *
Information	Refresh Apply
General	
User <	
Password	
Logs Maintenance	
Auto Restart	
1 	
Ge Local	

Step 2 Select one type of restart time from drop-down list.



9.6 Local

Set the image download path for snapshot and the record download path for record files in the download configuration interface.

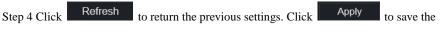
Procedure

Step 1 Click **Local Download Config** in local interface, as shown in Figure 9-57. Figure 9-57 Local interface

Download Config Data Alarm Network Image download path C:Users:Public:Docur Browse System Video download path C:Users:Public:Docur Browse
Download Config Àlarm Network System Video download path C:Users!Public:Docur Browse Local
Alarm Image download path C.'Users\Public:Docur Browse System Video download path C.'Users\Public:Docur Browse System Video download path C.'Users\Public:Docur Browse Local Refresh App
Video download path C:Users:PubliciDocur Browse Image: Colorad control of the colorad cont
Constant Con
Config
<

Step 2 Enter the image download path.

Step 3 Enter the record download path.



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	Туре	Capacity	Model	Parameter	Verification of
Brand					Platform
WD(Western	Monitoring	3T	WD30EJRX	3000G/	NVR25 Series /NVR 26
Digital)	level		-89G3VY0	5400RPM/64MB	Series /ADR33 Series
				/SATA	/ADR36 Series
		1T	WD10EJRX	1000G/5400RP	NVR25 Series /NVR 26
			-89N74Y0	M/64MB/SATA	Series /ADR33 Series
					/ADR36 Series
		4T	WD40PUR	4000G/5400RP	NVR25 Series /NVR 26
			Х-	M/64MB/SATA	Series /ADR33 Series
			64GVNY0		/ADR36 Series
		2T	WD20EUR		NVR25 Series /NVR 26
			S-63S48Y0		Series /ADR33 Series
					/ADR36 Series
		3T	WD30EUR		NVR25 Series /NVR 26
			S-63SPKY0		Series /ADR33 Series
					/ADR36 Series
		0.5T	WD5000AA		NVR25 Series /NVR 26
			KK-001CA0		Series /ADR33 Series
					/ADR36 Series
		1T	WD10EZE	1000G/7200RP	NVR25 Series /NVR 26
			X-00BN5A0	M/64MB/SATA	Series /ADR33 Series
					/ADR36 Series
		4T	WD40EJRX	4000G/5400RP	NVR25 Series /NVR 26

Table 10-1 Disk specification

	1				1
			-89T1XY0	M/64MB/SATA	Series /ADR33 Series
					/ADR36 Series
		3T	WD30PUR	3000G/5400RP	NVR25 Series /NVR 26
			X-64P6ZY0	M/64MB/SATA	Series /ADR33 Series
					/ADR36 Series
		6T	WD60PUR	6000G/5400RP	NVR25 Series /NVR 26
			Х-	M/64MB/SATA	Series /ADR33 Series
			64WYOY1		/ADR36 Series
		8T	WD82EJRX		NVR25 Series /NVR 26
			-89AD9Y0		Series /ADR33 Series
					/ADR36 Series
	Desktop	12T	WD121EJR	7200RPM/256M	NVR25 Series /NVR 26
			X-89S5UY0	B/SATA	Series /ADR33 Series
					/ADR36 Series
Seagate	Monitoring	2T	ST2000VX0	2000G/5900RP	NVR25 Series /NVR 26
	level		00	M/64MB/SATA	Series /ADR33 Series
					/ADR36 Series
		2T	ST2000VX0	2000G/5900RP	NVR25 Series /NVR 26
			08	M/64MB/SATA	Series /ADR33 Series
					/ADR36 Series
		4T	ST4000VX0	4000G/5900RP	NVR25 Series /NVR 26
			00	M/ 64MB/SATA	Series /ADR33 Series
					/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
	L	1	1	l	

					/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

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)