

# **PS1A-MINISERVER**

# **User Manual**



# PARAMONT

# Notes

• Please read this user manual carefully to ensure that you can use the device correctly and safely.

• There may be several technically incorrect places or printing errors in this manual. The updates will be added into the new version of this manual. The contents of this manual are subject to change without notice.

• This device should be operated only from the type of power source indicated on the marking label. The voltage of the power must be verified before using the same. Kindly remove the cables from the power source if the device is not to be used for a long period of time.

- Do not place this device near any heat sources such as radiators, heat registers, stoves or other devices that produce heat.
- Do not place this device near water. Clean only with a dry cloth.
- Do not block any ventilation openings and ensure proper ventilation around the machine.
- Do not power off the device at normal recording condition.

• This machine is for indoor use only. Do not expose the machine in rain or moist environment. In case any solid or liquid get inside the machine's case, please turn off the device immediately and get it checked by a qualified technician.

• Do not try to repair the device by yourself without technical aid or approval.

• When this product is in use, the relevant contents of Microsoft, Apple and Google will be involved in. The pictures and screenshots in this manual are only used to explain the usage of our product. The ownerships of trademarks, logos and other intellectual properties related to Microsoft, Apple and Google shall belong to the above-mentioned companies.

• All examples and pictures used in the manual are from one of the models for reference purpose.

## Disclaimer

- With regard to the product with internet access, the use of product shall be wholly at your own risks. Our company shall be irresponsible for abnormal operation, privacy leakage or other damages resulting from cyber attack, hacker attack, virus inspection, or other internet security risks; however, our company will provide timely technical support if necessary.
- Surveillance laws vary from country to country. Check all laws in your local region before using this product for surveillance purposes. We shall not take the responsibility for any consequences resulting from illegal operations.

• The storage period of the personal data depends on the capacity of the storage devices the users use and all data stored in the device shall be handled by themselves. Our company shall not be responsible for the data loss.

# **Cyber Security Recommendations**

• Change passwords and use strong passwords. At least 8 characters or a combination of characters, numbers, and upper and lower case letters should be used in your password.

- Regularly change the passwords of your devices to ensure that only authorized users can access the system.
- Change default ports (like HTTP, data port) to reduce the risk of outsiders being able to access.
- It is recommended to set the firewall of your router. But note that some important ports cannot be closed (like 80, 6036).

# **Regulatory Information**

#### FCC Information

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

#### 1. FCC compliance

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

#### 2. FCC conditions:

- This device complies with part 15 of the FCC Rules. Operation of this product is subject the following two conditions:
- This device may not cause harmful interface.
- This device must accept any interference received, including interference that may cause undesired operation.

#### **CE Information**

**CE** The products have been manufactured to comply with the following directives.

EMC Directive 2014/30/EU

#### RoHS

The products have been designed and manufactured in accordance with Directive EU RoHS Directive 2011/65/EU and its amendment Directive EU 2015/863 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.



2012/19/EU (WEEE directive): The Directive on waste electrical and electronic equipment (WEEE Directive). To improve the environmental management of WEEE, the improvement of collection, treatment and recycling of electronics at the end of their life is essential. Therefore, the product marked with this symbol must be disposed of in a responsible manner.

Directive 94/62/EC: The Directive aims at the management of packaging and packaging waste and environmental protection. The packaging and packaging waste of the product in this manual refers to must be disposed of at designated collection points for proper recycling and environmental protection.

REACH(EC1907/2006): REACH concerns the Registration, Evaluation, Authorization and Restriction of Chemicals, which aims to ensure a high level of protection of human health and the environment through better and earlier identification of the intrinsic properties of chemical substances. The product in this manual refers to conforms to the rules and regulations of REACH. For more information of REACH, please refer to DG GROWTH or ECHA websites.

# Contents

1	Int	roductio	n	1
	1.1	Introd	luction	1
	1.2	Front	Panel Instructions	1
	1.3	Syster	m Components	1
		1.3.1	Front-end Access	1
		1.3.2	Background Monitor	1
		1.3.3	Control Center	2
	1.4	Defau	lt System	2
2	Log	gin & Ne	twork Configuration	3
	2.1	Login		3
	2.2	Netwo	ork Configuration	3
	2.3	Main	Menu Interface Introduction	4
3	Dev	vice Man	nagement	6
	3.1	Add E	Encoding Device	6
		3.1.1	Quickly Add	6
		3.1.2	Manually Add	7
		3.1.3	Initiatively Report	8
		3.1.4	Quickly Add Auto Report Device	8
	3.2	Modif	fy or Delete Device	9
	3.3	Batch	Import/Export	9
	3.4	Devic	e Upgrade	9
	3.5	Devic	e Setting	10
	3.6		Setting	
	3.7	Add N	Media Transfer Server	10
	3.8	Add S	Storage Server	11
4	Gro		agement	
	4.1	-	e Management	
		4.1.1	Add Group	
		4.1.2	Add Target	
	4.2	Sync 1	Records	
	4.3	-	Management	
5	Fac	e Recog	nition Management	21
	5.1	0	Surveillance	
			Face Surveillance Settings	21
		5.1.2	Real-Time View	
		5.1.3	Search Snapshots and Comparison Result	
		5.1.4	Search Image by Image	
		5.1.5	Other Settings	
	5.2		Greeting	
	5.3	Face A	Attendance	
		5.3.1	Add Attendance Group and Targets	
		5.3.2	Set Attendance Rules	
		5.3.3	Search Attendance Record	
		5.3.4	Real-time View	
		5.3.5	Statistics of Attendance Data	
	5.4	Smart	View	
6	Liv			
-	6.1		View	
		6.1.1	Monitoring Point View	
		6.1.2	Channel Group View	
		6.1.3	Plan View	
	6.2		-Screen View	

	6.3	PTZ C	ontrol	49
	6.4	Instant	Playback	50
7	Rec	cord & Pl	ayback	51
	7.1	Record	Configuration	51
		7.1.1	Schedule Recording	51
		7.1.2	Alarm Linkage Recording	52
	7.2	Record	Playback	52
		7.2.1	Normal Playback	53
		7.2.2	Smart Playback by Face	55
		7.2.3	Smart Playback by License Plate	57
		7.2.4	Playback by Time Slice	57
		7.2.5	Playback by Event	
		7.2.6	Playback by Tag	
	7.3	Record	Backup	
	7.4		Picture	
8	Ala		gement	
	8.1		Server Configuration	
	8.2		Configuration	
	8.3		ettings	
	8.4		Task Settings	
	8.5		Settings	
	8.6		View	
	8.7		Log	
	8.8		l Alarm Out	
9				
	9.1	-	Settings	
	<i>)</i> .1	9.1.1	Create E-Map	
		9.1.2	Add Hotspot	
	9.2		Monitoring	
10		-	nontoring	
10	10.1		V Wall Server	
	10.2		ecoder	
	10.2		ll Management	
	10.2		TV Wall Settings	
		10.3.2	TV Wall View	
		10.3.2	Decoder Input	
		10.3.4	-	
		10.3.4	Playback Task Setting of TV Wall	
		10.3.6		
11	Tor		TV Wall System Configuration	
11		-	e measurement	
	11.1			
	11.2	. 11.2.1	rature Screening Configuration	
		11.2.1	Live Preview	
		11.2.2		
			Records Search	
10	T	11.2.4	Statistics	
12		-	ting	
	12.1		lanagement	
	12.2		me Statistics	
	12.3		lap	
	12.4		cal Statistics	
	12.5		Control	
	12.6		Historical Picture	
13			agement	
	13.1		ccess Control Device	
	13.2	2 Apply	for a Visit	99

	13.3 Search and Export Visitor Record	
	13.4 Exception Handling	
	13.4.1 Extending Visit Time or Modify Access Point	
	13.4.2 Not Visiting/Leaving Beyond the Given Time	
14	Parking Lot Management	
	14.1 Add ANPR Camera	
	14.2 Add LED Display Screen	
	14.3 System Settings	
	14.3.1 Set Entrance and Exit	
	14.3.2 Set the Charge Rule for Temporary Vehicles	
	14.3.3 Set Schedule	
	14.4 Vehicle Management	
	14.4.1 Link Vehicles to the Parking Lot	
	14.4.2 Block List	
	14.5 Vehicle Monitoring	
	14.5.1 Temporary Vehicles	
	14.5.2 Linked Vehicles	
	14.5.3 Vehicles in the Blocklist	
	14.6 Search	
	14.6.1 Search Pass Information	
	14.6.2 Search Temporary Vehicle Charge Inforamtion	
	14.6.3 Search Vehicle Payment Information	
	14.6.4 Search Overdue Parking	
15	Account and Permission	
	15.1 Create Account	
	15.2 User Permission Settings	
16	Operation and Maintenance Management	
	16.1 Check and Export Log	
	16.2 Backup and Restore Configuration	
	16.3 Viewing Online Status	
	16.4 Viewing Status Log	
17	Configuration	
	17.1 Local Settings	
	17.2 Overload Settings	
	17.3 Alarm View Settings	
	17.4 Server Port Configuration	
	17.5 Upgrade System	
	17.6 System Time Configuration	
	17.7 System Configuration	
	17.8 Audio Uploading	
	17.9 Other Configuration	
18	Web Client	
	18.1 Operating Environment of Web Client	
	18.2 Start IE Client	
19	Troubleshooting	

# **1** Introduction

# 1.1 Introduction

Based on the conception of "Alll-in-One", the mini NVMS server is a management server specially designed and developed for security surveillance application. Its software is installed before delivery and combines management, video preview and intelligent applications. Due to its low lost, simple deployment, flexible expansion, powerful performance and high reliability, it can meet the requirements of the medium and small-sized security systems.

# **1.2 Front Panel Instructions**

The picture below is for reference only. Please refer to the interfaces and indicators of the real server.



No.	Description	No.	Description
1	USB3.0 *2	7	Power button (LED)
2	Ethernet port (LAN)	8	USB3.0 *1
3	USB2.0 *2	9	USB3.0 *1
4	HDMI output	10	Audio Input
5	VGA output	11	Audio Output
6	DC power supply		

### **1.3 System Components**

### 1.3.1 Front-end Access

- Front-end devices include IPC, DVR and NVR.
- You need to connect monitor devices such as IPC, DVR and NVR to internet through hubs or routers accessed by Cat5 or Cat5e cables (less than 100 meters) or optical fiber.
- Run monitor client through local PC to configure the local video monitor, monitor devices and so on.

### 1.3.2 Background Monitor

- Background monitors include TV Wall, Monitor, etc.
- You can set up the real-time image of display devices, these display devices including TV-Wall (decoding images to show on the

TV-Wall through video decoder), digital display screen and so on.

• Run monitor client through local PC to view, playback and remotely configure and manage the real-time video of front-end monitor devices.

### 1.3.3 Control Center

- Realize various services, such as, video transmission, recording, decoding on TV wall, etc.
- Add IP-SAN storage array to realize centralized storage.
- Connect servers and IP-SAN storage array to internet through switches.
- Set up IP addresses in accordance with the actual situation.

# 1.4 Default System

The default network settings are as follows:

The default IP address: 192.168.0.10; the default HTTP port: 8000

Web client login: http://192.168.0.10:8000

The default username: admin; the default password: 123456

# 2 Login & Network Configuration

# 2.1 Login

Before starting, please make sure network cable, monitor and power are connected. After the server is started, the following window will appear as shown below.

Server mode or client mode can be selected when logging in. If "Client mode" is selected, you need to enter the address and port of the authentication/management server. Then this server will be used as a client. If "Server mode" is selected, this server can be used directly.

	Login	×
User Name	admin	~
Password	•••••	
Device Mode	Server Mode	
Remember	Password	ı
Login	Cancel Rese	et Password

- ① Enter username and password (the default username is admin; the default password is 123456).
- ② Enter the IP address and port of the authentication server (the default port is 6003).
- ③ Check "Remember Password" or "Auto Login" as needed.

#### ④ Click [Login].

If you forget the password, please click "Reset password". Then a small window will appear. You can reset the password by answering the pre-defined questions.

If this is the first time for you to log in, it is recommended to set the security questions/answers.

## 2.2 Network Configuration

After logging in, enter Local Configuration  $\rightarrow$  Network Config interface as shown below.

IP Address	192.168.0.10		oth0 (	Bind static IP		
Subnet Mask 255.255.255.0						
Gateway	192.168.0.1		MAC Address IP Address	EC:D6:8A:5F:6F:A1		
letwork Mode	Adaptive Load Balancing	$\sim$	IP Address Subnet Mask	192.168.0.10		
Major DNS	127.0.0.53		Gateway	192.168.0.1		
Minor DNS	8.8.8.8					

Set the network parameter according to the actual condition.

# 2.3 Main Menu Interface Introduction

	me Resource Managem	ent Storage Playback Local Configura	uon ketoru	Setting Faces		anagement Face A	Attendan	ice Alarm Center	Parking Lot Managen		_1	
	Video Preview Video Preview   Alarm Preview E-Map Monitoring		₿,	Storage Playback Record Playback   By Time Slice   By Event By Tag   Record Backup   Search Picture Record Setting   Schedule Setting		E-Map E-Map Setting			3			
	TV Wall Se	Management Etting   TV Wall View sks Settings   TV Wall System Setting	*		nagement Hete Device   Device Sr Channel Group Setting		2	People Manageme People Manageme Visitor Record   Ta	nt Sync Records		$\bigcirc$	
unice Alexand III Making D	User and	Permission Other Intelligent Alarm 🛛 Sensor A		Alarm Gente		r Taak	OD Filte	Parkine Lot Man	accoment		Unhandled	
Alarm Time	Alarm Source	Alarm Type		rage Playback	Device Playback	Storage Snaps		Device Capture	Alarm Processing	Handling Status	Disposition	
21-07-07 15:13:44	IP02	Monitoring Point-Motion Deter	tion									
21-07-07 15:13:41	IP01	Monitoring Point-Motion Deter	tion	5								
21-07-07 15:13:21	IP02	Monitoring Point-Motion Deter	tion	Э								
21-07-07 15:13:19	IP01	Monitoring Point-Motion Deter										

There are five parts in the main menu interface. The descriptions of each part are as shown below.

#### Menu Bar

No.	Description	No.	Description
1	Menu Bar	4	Status Bar
2	Tab Bar	5	Alarm Information Bar
3	Functional Areas		

#### Tab Bar

Menu	Description				
View         "Video Preview", "Edit view", "Change to home page", "Change to smart view page"					
System	Including "Live View", "Record Playback", "E-Map", "TV Wall Management", Resource Management", "Account and Permission", "Alarm Center" "Operation and Maintenance Management", "Face Surveillance", "Face Greeting", "Target Counting", etc.				
Help	Including "Register license", "About NVMS", etc.				

#### Functional area

Menu	Description
Video Preview	To view live images and to record, snapshot and talk, etc.
Storage Playback	To remotely play the local records or back up records.
Е-Мар	To manage and display maps, hot spots, etc.
TV Wall Management	To set TV wall and decoding videos on TV Walls
Resource Management	To add, modify or delete areas, devices or servers.
Group Management	To manage people and assign the access permission
Account and Permission	To add, modify or delete user account and set permissions for these accounts.
Alarm Center	To set alarm linkage and schedule; To search alarm logs.
Face Surveillance	To recognize, compare or search face.
Temperature measurement	To view the statistics of body temperature
Face Greeting	To welcome visitors based on face recognition technology
Face Attendance	To help to manage staff attendance based on face recognition technology
Parking Lot Management	To manage vehicles in the parking lot
Target Counting	To monitor and analyze people/vehicle flow in real time
Operation and Maintenance Management	To search, export and maintain logs.
Configuration	To set system startup and maintenance, overload, alarm view, etc.
Functional Selection	To select common functions displayed on the home page.

#### Other buttons:

Button	Description
×	Click to exit the software.
+	Click it to add the video preview page.
-	When the tab pages exceed the applicable numbers, this icon will display. Click it to view the hidden tabs.

#### Common buttons:

Button	Description
	Click it to edit the item.
	Click it to delete the item.
Þ	Check the camera and then click it to select
<	Check the camera and then click it to remove
»	Click it to add all cameras
~	Click it to remove all selected cameras

# **3** Device Management

### 3.1 Add Encoding Device

In the main menu interface, click "Add, Edit or Delete Device" to go to the following interface as shown below.

During Tang			Channel Group Setting							
Device Type	Add D	Delete Select	Area Import Selec	t Transfer Server	Select Storage S	erver Up	grade 🚽 Save F	orm		
Encoding Device (Online/Total numbe Decoder (Online/Total number:1/1)				Add Encod	ling Device				×	Name/Seri
LED Display Device (Online/Total numl	Quickly A	dd Manually	Add Initiatively Report	Unbound Auto Re	eport Device		Devi	ce Quantity:61	Refresh	1
Intelligent Analysis Server (Online/Tota Storage Server (Online/Total number:1		Device Name	IP Address	ModifyIP Address	Activate	Port	Subnet Mask	Protocol	Versio	5
Media Transfer Server (Online/Total nu		IPC	192.168.1.88		Not activated	9008	255.255.255.0	Standard Device	5.1.1.0	7
Access Server (Online/Total number:1/ Alarm Server (Online/Total number:1/		IPC	192.168.1.88		Not activated	9008	255.255.255.0	Standard Device	5.1.1.0	9
TV Wall Server (Online/Total number:1		115	10.214.40.115		Activated	6036	255.255.0.0	Standard Device	1.4.4	5
		192.168.53.43	10.214.52.43			6036	255.255.0.0	Standard Device	1.1.0.beta	)
		Device Name	10.110.9.136		Activated	6036	255.255.240.0	Standard Device	1.4.4	1
			10.214.241.91			1409	255.255.0.0	Standard Device	4.0.0.1	
		IPC	192.168.1.88		Activated	9008	255.255.255.0	Standard Device	5.1.1.0	
		IPC	10.214.48.88		Activated	9008	255.255.0.0	Standard Device	4.2.1.0	0
		Select 1	Fransfer Server	 	Selec	t Storage Se Create A	rver	ally Link Area	>	} }
					В	atch Activate	Default Passw	vord OK	Cancel	3

Then click "Add" to add devices. You can add multiply devices in this interface, such as face detection IPC, face recognition IPC/NVR, face recognition terminal, active deterrence IPC, ANPR camera, etc.

In the encoding device interface, you can view the activated device or inactivate device. Click the "Activate" tab to sort.

Activation: click "Not activated" and then enter the password of the IPC according to the tip in the pop-up activation box. After successful activation, the IPC can be connected normally.

Batch Activation: check the inactivate devices and then click [Batch Activate] to enter the password of the IPCs in the pop-up activation box. After successful activation, these IPCs can be connected normally.

If "Activate Onvif user" is selected, the password of the IPC connected to the platform via Onvif protocol is the password you entered here.



### 3.1.1 Quickly Add

Click [Refresh] to quickly search devices in the same local network as shown below. Check the device and allocate the transfer server, storage server, area for it. After that, click [OK].

Click "Default password" to set the default username and password of the devices from different manufacturers, such as Hikvision, Dahua, etc. The default username of the standard device is "admin and the default password of the standard device is "123456". **Note:** 

\* The default media transfer server can be selected when adding devices. If you want to save recorded files to the storage server, you need to create a storage server in advance (see Add Storage Server) and then select the storage server when adding devices.

\* Area must be set up before adding devices. Click [Add Area] to create an area (See Area Setting).

### 3.1.2 Manually Add

				Add End	coding Dev	vice				×
Quickly Add	Manually Add	Initiative	ly Report	Unbound Auto	Report Devic	e				
IP Address/IP Ra	inge/Domain Name,	/Serial No	./URL	Protocol		Port	User Name	Password	Test	Delete
IP Address 🗸 🗸	0.0	. 0 .	0	Standard Dev	ice	6036	admin	•••••		
<			-		_	-				>
	Select Transfer	r Server	Transfer	Server 🗸		Select :	Storage Server	Storage Server	$\checkmark$	
	Sele	ect Area	🛕 defau	lt area 🗸 🗸			Create Area	Automatically	/ Link Area	
							1	Default Passwo	rd OK	Cancel

① Enter IP address/IP range/domain name/Serial No./URL, username and password and choose protocol type.

2 Click [Test] to test whether the device is connected successfully or not.

③ Select transfer server, storage server and area and then click [OK].

Devices can be added in batch by adding IP range.

If "Serial NO." is selected, please make sure that the device enables NAT2.0.

If "URL" is selected, you shall add the device via RTSP protocol. Enter the URL, username and password of the device and then click [Test] to test whether the device is connected successfully or not.

				Add End	coding D	evice				×
Quickly Add	Manually Add	Initiativel	y Report	Unbound Auto	Report Dev	vice				
IP Address/IP Ra	inge/Domain Nam	e/Serial No.	/URL	Protocol		Port	User Name	Password	Test	Delete
URL:RTSP:/	URL:RTSP://192.168.226.201:554/ profile1			RTSP						
< e										
	Select Transfe	er Server	Transfer Serv	/er 🗸		Select S	Storage Server		~	
		_	🛕 default ar	ea 🗸				Automaticall	y Link Area	
								Default Passwo	ord OK	Cancel

How to get URL?

Here we take the IPC of our company for example. Log in to the web client of the IPC and then go to "Config"  $\rightarrow$  "Network"  $\rightarrow$  "RTSP" interface to configure RTSP.

The default RTSP port is 554 and the URL format is "rtsp://IP or domain name:port/profile1". For example: rtsp://192.168.1.1:554/profile1. Profile1stands for main stream; profile2 stands for sub stream; profile3 stands for the third stream. The URL of the device of other companies, please get the URL from its web client or the third-party tools (like ODM).

### 3.1.3 Initiatively Report

Select the "Initiatively Report" Tab to see the following interface.



① Enter the device ID set in the DVR/NVR or IP camera and choose the protocol.

• If the DVR/NVR is needed to add, please go to Network→Platform Access interface of the DVR/NVR. Check "Enable", enter the IP address and port (default 2009) of the NVMS and then set the device number of the DVR/NVR.

• If the IP camera is needed to add, please go to Network Configuration -> Server Configuration of the IP camera. Check "Do you want

IPcamera to connect Server", enter the IP address and port (default 2009) of the NVMS and then set the device number of the IP camera.

② Select the transfer server, storage server, area and then click [OK].

### 3.1.4 Quickly Add Auto Report Device

For the auto report devices in the same local network with the platform, you can go to the "Unbound Auto Report Device" interface to add them quickly.

Note: please fill out the auto report information in the NVR/IPC in advance and then the device information can be searched in the "Unbound Auto Report Device" interface.

				Add E	ncoding Device				×
Quickly Ac	ld Manuall	y Add Initi	atively Report	Unbound A	uto Report Device		Device Qua	antity:1	Refresh
	Device Na	Serial No.	Protocol	Select Tran					
	1	1	Standard D	Transfer Se					
	Select	Transfer Serve	er Transfer Se	erver 🗸	Sel	ect Storage Server	Storage Server	$\checkmark$	
		Select Are			2		Automatically Link		
							Default Password	ОК	Cancel

### 3.2 Modify or Delete Device

After devices are added successfully, they will be listed as below.

Add, Edit or Delete Device Device	Setting Area Setting Channel Group Settin	g							
Device Type	Add Delete Select Area Import	Select T	ransfer Server	Select Storage Server	Upgrade 🔔 Save Form			Search	
Encoding Device (Online/Total number:		-		1				1	-
Decoder (Online/Total number:0/0)	IP Address/IP Range/Domain Name/Serial No.	Port	Select Area	Select Transfer Server	Select Storage Server	Online Status	Model	Version	H
LED Display Device (Online/Total numb	10.214.56.99	9008	default area	Transfer Server		Online	52	4.2.1.0(17704)	
Intelligent Analysis Server (Online/Tota									
Storage Server (Online/Total number:0/	10.214.5.28	9008	default area	Transfer Server		Online	E3	5.0.1.0(4002)	
Media Transfer Server (Online/Total nur	10.214.5.25	9008	default area	Transfer Server		The node is offline!		5.0.1.0(4002)	
Access Server (Online/Total number:1/1									

The device channel number, alarm status, online status and record status can be viewed from the above table.

# 3.3 Batch Import/Export

You can import multiple encoding devices (NVR/IPC) in different local network at a time. The setting steps are as follows:

1. Create an Excel file and then edit the device information as follows. Please copy the text of the first line.

	А	В	С	D	E
1	ip	port	protocol	userName	password
2	192. 168. 226. 201	9008	ipc	admin	123456
3					

- 2. Save the file as ".cvs" or ".xlsx".
- 3. Click Home → Resource Management → Add, Edit or Delete Device. Then click [Import] to import the file.

Add, Edit or Delete Device	Device	Setting	Area Setti	ng Channel (	Group Settin	g			
Device Type	^	Add	Delete	Select Area	Import	Select Tr	ansfer Server	Select Storage Server	Upgrade 🔔 Save Form
ncoding Device (Online/Total	number:								
Decoder (Online/Total number	coder (Online/Total number:0/0) IP Address/IP Range/Domain Name/Serial No.				erial No.	Port	Select Area	Select Transfer Server	Select Storage Server
ED Display Device (Online/Tot	al numb								

Export encoding devices: insert the USB storage device into the server, check the device you want to export and then click [Export] to export the device list.

## 3.4 Device Upgrade

In the "Add, Edit or Delete Device" interface, check the devices you want to upgrade and then click [Upgrade]. Select the upgrade type as needed.

Add, Edit or Delete Device	Device	Setting	Area Settir	ng Channel (	Group Settin	ıg			
Device Type	^	Add	Delete	Select Area	Import	Select Tra	ansfer Server	Select Storage Server	Upgrade Save Form
Encoding Device (Online/Total n	umber:								Batch Upgrade for IPC
Decoder (Online/Total number:0/0)		IP Addres	s/IP Range/[	Domain Name/S	erial No.	Port	Select Area	Select Transfer Server	Batch Upgrade for ANPR Camera
LED Display Device (Online/Tota	ıl numb	10		0.214.56.99		9008	default area	Transfer Server	Batch Upgrade for NVR/DVR
Intelligent Analysis Server (Onlir	ne/Tota		10123				derdate area		Bateli opgrade for NVR/DVR

Note: When multiple devices are upgraded simultaneously, the selected devices must be the same series.

# 3.5 Device Setting

Go to Home → Device Setting interface as shown below. In this interface, the parameters of the device can be set up.



Different devices have different menus. Please configure the device according to the corresponding user manual.

### 3.6 Area Setting

Go to Home  $\rightarrow$  Area Setting interface as shown below.

					Create Area	×
					Parent Area 🛕 default area 🗸 🗸	/
Add, Edit or Delete Device Devie Add Delete All Empty Area	ce Setting Area Sett	ting Cha	nnel Group S	etting	Area Name next	
Area Name	Channel Number	Edit	Delete			
▶ 🝙 default area	4				OK Cancel	

Click [Add] to go to Area adding interface. Enter area name to create parent area. Then click [OK] to save the settings. To create sub area, click [Add], choose the parent area, enter the area name and click [OK].

### 3.7 Add Media Transfer Server

Media transfer server is in charge of the video signal reception of the front-end devices (like IPC) and transfers the signal to the client to view or to the storage server to record. The command of viewing the video of the front-end devices sent by the client or storage server is transferred by the media transfer server to the front-end devices. There is a default transfer server. If you want to add a new transfer server, please follow the directions as below.

1. Go to Home $\rightarrow$ Add, Edit or Delete Device $\rightarrow$ Media Transfer Server.

Add, Edit or Delete Device Device	e Setting	Area Setting (	Channel Group Setting							
Device Type	Add	Delete					Search			Q
Encoding Device (Online/Total number Decoder (Online/Total number:1/1)		Server Name	Device Number	Channel Number	IP Address	Port	Hot Spare Server	Associated Hot Spare Server	Client Connection Status	Authentica
LED Display Device (Online/Total num Intelligent Analysis Server (Online/Tota		Transfer Server	7	10	10.20.52.7	6006	No		Online	
Storage Server (Online/Total number: Media Transfer Server (Online/Total n				Add Media Tran	×					
Access Server (Online/Total number:1)		Quickly Add Ma	nually Add			S	Server Quantity:0	Refresh		
Alarm Server (Online/Total number:1/ TV Wall Server (Online/Total number:1		IP /	Address Po	rt						

2. Click [Add] to go to media transfer server addition interface. Users can quickly add or manually add media transfer servers.

3. Select the "Quickly Add" tab and click [Refresh] to quickly search servers in the same local network. Check the desired servers and click [OK] to save the settings.

Select the "Manually Add" tab to go to the media transfer server adding interface. Enter the server name, IP address and port and click [OK] to save the settings.

		Ad	d Media Transfer Server	×
Quickly A	Add Manually Add		Server Quantity:3	Refresh
	IP Address	Port		
	172.16.47.128	6006		
	172.16.47.120	6006		
	192.168.1.22	6006		
			ОК	Cancel

When adding the transfer server, you can select it as a hot spare server.

If there are devices under the transfer server, this server cannot be changed to a hot spare server.

If you have added a hot spare server, it will work as follows.

1. When the transfer server of the device is offline and the offline time exceeds the predefined service fault time, the device will be transferred by the online hot spare server.

2. When the original transfer server of the device is online again and the online time exceeds the predefined server fault time, the device will be transferred by the original transfer server.

To set the server fault determination time, please go to Home→Local Configuration→System Configuration interface to set.

### 3.8 Add Storage Server

Storage server is in charge of the storage of record information, including the information of schedule record, record based on motion alarm, sensor alarm, smart detection alarm (like object removal detection, line crossing detection, etc.), responding to the search and playback of all storage data. It also supports self-defined storage path settings and IP-SAN access. You need to add a new storage server if you want to save recorded files to the storage server. Please follow the directions to add a storage server as below.

1. Click Home $\rightarrow$ Add, Edit or Delete Device $\rightarrow$ Storage Server.

Add, Edit or Delete Device Device	e Setting	Area Setting Cha	annel Group Setting							
Device Type	Add	Delete					Search			Q
Encoding Device (Online/Total numbe Decoder (Online/Total number:1/1)		Server Name	Device Number	Channel Number	IP Address	Port	Hot Spare Server	Associated Hot Spare Server	Client Connection Status	Authentic
LED Display Device (Online/Total numl Intelligent Analysis Server (Online/Tota		Storage Server	7	10	10.20.52.7	6009	No		Online	
Storage Server (Online/Total number:1				Add Stor	age Server			×		
Media Transfer Server (Online/Total nu Access Server (Online/Total number:1/		Quickly Add	Manually Add				Server Quantity:0	Refresh		
Alarm Server (Online/Total number:1/:			IP Address	Port						
TV Wall Server (Online/Total number:1										

2. Click [Add] to go to storage server adding interface. Users can quickly add or manually add storage servers.

3. Select the "Quickly Add" tab and click [Refresh] to quickly search servers in the same local network. Check the desired servers and click [OK] to save the settings.

Select the "Manually Add" tab to go to the storage server adding interface. Enter the server name, IP address and port and click [OK] to save the settings.

You can also add another server as a hot spare server. Once the host server is offline, the spare server will take over.

After the storage server is added, click is to set record partition. In the record partition setting interface, select the disk and click [OK] to save the settings.

Add, Edit or Delete Device Device	Setting Are	a Setting	Channel Group Settir	19					
Device Type 🔷 🔨	Add De	ete				Search			
Encoding Device (Online/Total numbe		_							
Decoder (Online/Total number:1/1) t	Is hot st	andby Server	Associated hot st	tandby server	Client Connection Statu	Authentication Server Connection Status	Record Partition	Edit	Delete
LED Display Device (Online/Total numl 9	1	No			Online	Online			T
Intelligent Analysis Server (Online/Tota									
Storage Server (Online/Total number:1									
Media Transfer Server (Online/Total n					Record Partition Set	tting	^		
Access Server (Online/Total number:1/			Partition Symbol	Partition Size	Remain Size				
Alarm Server (Online/Total number:1/:				400.00	25.00				
TV Wall Server (Online/Total number:1			C(System Driver)	100GB	35GB				
			D	183GB	111GB				
			E	182GB	128GB				

If you have added a hot spare server, it will work as follows.

1. When the storage server of the device is offline and the offline time exceeds the predefined service fault time, the recorded file of the device will be saved by the online hot spare server.

2. When the original storage server of the device is online again and the online time exceeds the predefined server fault time, the recorded file of the device will be saved by the original storage server.

To set the server fault determination time, please go to Home  $\rightarrow$  Local Configuration  $\rightarrow$  System Configuration interface to set.

# 4 Group Management

# 4.1 People Management

### 4.1.1 Add Group

You can add group for four libraries-Person list, VIP list, Visitor list and Block list.

#### • Add the parent group

Go to Home $\rightarrow$ Group Management $\rightarrow$ People Management $\rightarrow$ Person List.



Right click on the blank of the person list column and then the "Add" button will appear. Click it to add the group name.

#### • Add the sub group:

Put the cursor on the parent group name and then you will see the follow buttons. Click "+" to add the sub group name.





**Bind the camera to the group**: Add the people images of the group to the face database of the binding camera. When the person whose picture has transferred to the face database of the binding camera appears in the detection area, the face comparison result will be sent to the platform.



In the group management interface, click "Sync Records" → "People" or "Device" to view the synchronization status.

People Management	t Sync Recor	rds Visitor Re	ecord Tas	k				
People	Device	Access Point(2)	Delete	Export	Device Name All		$\checkmark$	Status All
Person List	^		Name	Device name	Group name	Status	Operation	
Search	Q		J	IP Camera01	Default Group	Failure	Ú Ī	
			J	Device Name	Default Group	Success		
 M								

### 4.1.2 Add Target

You can add targets for four libraries -- people, VIP, Visitor and Block list.

### • Add target one by one

Select the group name and then click [Add] to add the target information

earch Q Default Group Reversely Select	People Mana	gement	Sync Records	Visitor Record	Task						
earch Q Default Group Pailure Record Custom Export Template Import E Reversely Select Add Clear All Targets Change Group Pailure Record Custom Export Template Import E Reversely Select Add Target ID Type: D Card Number: D T	Person List	VIP List	Visitor List	Block List							
Name(Required): Birthday: 2022-01-18   Gender: Male Country:   Province: City:   Work Type: Work ID:   Telephone: Card Number:   ID Type: ID Card	earch					Change Group	Failure Record	Custom	Export Te	mplate In	nport Exp
Gender: Male   Province: City:   Work Type: Work ID:   Telephone: Card Number:   ID Type: ID Card							Add T	arget			×
Remark: The default is the device bound to the target distribution Group [Default Group]						Gender: Province: Work Type: Telephone: ID Type: ID NO: Remark:	Male		Country: City: Work ID: Card Number:		

+

Click Add and select the face image saved in the local PC. Then fill out the corresponding information and click [OK] to save.

Note: the resolution of the face image shall be less than 3840\*3840.

If the target is added to the group of the VIP, register date and VIP level shall be fill in.

#### Batch Import

In the above interface, click [Export template] to export an Excel template and then fill out the corresponding information in the table as shown below.

After that, create a file named "Image" and then put the face images under this file.

A	В	С	D	E	F	G	Н	l. I	J	K	L	Μ	N	0	P
.The marked red item is required;															
When entering the phone number and certificate number, please add '; for example, 13500000000 is written as '13500000000; The date format is 2020-01-01:															
The date format is 2020-003-013 The certificate number shall not exceed 20 digits:															
The seat	distant and the second second	بدعد الدباد	and the state												
				ts;											
	ificate number level is genera			15;											
					Country	Province	City	Telephone	Remark	VIP Level	Registration Date	Department	Type of work	Staff Number	Picture addres
The VIP	level is genera	l, medium a	nd high;		Country China	Province Sichuan	City Chengdu	Telephone 1350000000	Remark	VIP Level High	Registration Date 2020-08-05	Department IT	Type of work engineer	Staff Number 011111	Picture addres
The VIP Name	level is genera Birth Date	l, medium a Gender	nd high; ID Type	ID NO					Remark						

Put the image file and the personal information file into the same directory.

#### Click [Import]→[ Excel Import]

People Management	Sync Records	Visitor Record	Task		
Person List VIP List	Visitor List	BlockList			
Person List Search	Q	Delete Add Export Select	Clear All Targets Change group Failure record Custom Export template	Import Sec Excel import Batch import File import	a

Click [Import] and then select "Batch import" to import face pictures in bulk, but the target information must be modified manually. Click [Import] and then select "File import". You can select whether to search the sub folder.

Search Subfolders: choose a folder including multiple subfolders and then all pictures in the folder and its subfolders will be imported. Not Search Subfolders: the pictures in the folder will be imported, but the pictures in the subfolders will not be imported.

#### > Convert images to an Excel

Multiple images also can be converted to an Excel. Then click "Excel Import" to add targets. The setting steps are as follows.

- 1. Name the face images (like David\_Male\_1989-01-03\_Engineer\_Group1), separating each field with "\_".
- 2. Clicking on displays an image conversion box. Click to select the desired images.
- 3. Click respectively to set the image naming rules and content of the header.

Image conversion tool								
Image list		<u>۴</u>						
Image naming rules		Ø						
Content of the header		(2)						
*Generate Excel for in	OK	Cancel						

#### Note:

1. The naming sequence of each image selected must be the same. Please select the image naming rules in accordance with the sequential order of the name of the image.

2. The content of the header must contain those items of the image name and can be selected in any order.

3. The content of the header must contain name and group (face database), which can be entered in the image name in advance and also can be edited in the exported Excel.

#### • Modify or Delete Target



Click to bind the camera. After you bind the camera, the face image will be added to the face database of the camera.

Click to view the target list as shown below.

Delete	Add	Clear All	Targets Cl	hange group	Failure	record	Custom [	Export template	e Import	Export	Apply I	Reset	Search	Q
<b>6</b> 88														
	Edit	Name	Birthday	Gender	ID Type	ID NO	Country	Province	City	Group	Work type	Work ID	Telephone	Operation
		J	2021-02-01	Female	ID Card					Default G				
		М	2021-02-01	Female	ID Card					Default G				
		AY	2021-02-01	Female	ID Card					Default G				

Click "Custom" to customize the target display information. Click "Change group" to change the group.

### 4.2 Sync Records

Click Home $\rightarrow$ Group Management $\rightarrow$ Sync Records to go to the following interface.

You can view the sync records or bind the camera to the group or people.

#### > Binding the group to the device

Put the cursor on the group name and then *shown*.

will be shown. Click it to bind the camera.

People Management Sync Reco	ords Visitor Record Task	
People Device	Access Point(6) Delete Export	Device Name All
Person List	Target Perm	nission ×
Search Q Default Group (2) - AY	Selectable Device	Selected Device
– 👤 J – 👤 M	<ul> <li>☐ derault area</li> <li>☑ Device Name</li> </ul>	
	IP Camera01	
	IP Camera02	
		<
	1	Clear All OK Cancel

#### Binding the person to the device

Select the person's name and then click "Synchronize to". This will bring a window as follow. Select the camera and then click "OK". This personal information will be synchronized to the selected camera.

People Management	Sync Records	Visitor Re	cord Tas	k				
People	Device Ac	cess Point(0)	Delete	Export		Device Na	ime All	$\checkmark$
Person List	^		Name	Device Name	Group	Status	Operation	
Search	Q			Person Per	missions		×	
image (62)		Selectal	ble Device		Select	ed Device		
				> <				
				>>				
		<		>			<b>—</b> >	
					Clear All	ОК	Cancel	
VIP List								
Visitor List	~							
Block List	~							
Synchronize t								

#### > Binding the device to the group or person

Click the "Device" tag, select the device and then click "Synchronize to". Select the group or person in the pop-up window.

People Management	Sync Reco	rds Visitor R	ecord Task					
People	Device	People NO.(0)	Delete	Export		People name	All	~
Device List	^		Name	Group	Status	Operation		
Search	Q			Authoriza	tion Binding	9	×	
L = IP,		Si	electable			Selected		
		🕨 🗐 🖬 Em	ployee		>			
		VIF	>		> <			
		) 🗈 🖬 Blo	ck	,	×			
		Search		Q	Clear	All OK	Cancel	
Synchronize to								

When the device is offline, the target synchronized to it cannot be deleted. Then you can go to the Sync Records interface to delete the synchronization records and then delete the target.

People Management	People Management Sync Records Visitor Record Task											
People	Device	Access Point(2)	Delete	Export	Device Name All		$\checkmark$	Status 🖌				
Person List	^		Name	Device name	Group name	Status	Operation					
Search	Q		J	IP Camera01	Default Group	Failure	C II	)				
- AY			J	Device Name	Default Group	Success						
J M												

### 4.3 Task Management

Set the face capture source, schedule and applicable scenario.

People Management Sync Recor	People Management Sync Records Visitor Record Task										
Monitoring Point	Apply Sched	ule Template			Setup						
Search Q default area (Online/Total n	Monitoring Point	Face Capture Source $\checkmark$	Schedule 🗸	Applicable Scenario	$\sim$						
L IP	IP	Empty		Face Surveillance, Face Greeting, Face Attendance, Access Control Managem	~						
•											

Face Capture by IPC: it is applicable to the face detection camera.

Face Match by IPC: it is applicable to the face recognition camera.

**Note:** Face recognition NVR, Temperature Reading Panel, Thermal network camera and IPC without face detection function cannot set task here.

More parameters about face comparison can be set by clicking [Setup].

Setup	×
Similarity Similarity(%) 75 Refresh OK	
Intelligent Server Setting	
Enable face detection of the face recognition IPC     Refresh     OK	
Send Captured Pictures to FTP	
FTP Server Address FTP Server Port 21	
FTP File Path /	
User Name Password Refresh OK	

Similarity: Set the similarity of the face comparison.

Intelligent Server Setting: please check "Enable face detection of the face recognition IPC" as needed.

If checked, the intelligent server will get all face capture pictures of the IPC after you configure face comparison parameters and set the schedule for the IPC. All these face snapshots can be searched in the Search interface (Home  $\rightarrow$  Face Surveillance  $\rightarrow$  Search).

If unchecked, the intelligent server will only get the matched face snapshots after you configure face comparison parameters and set the schedule for the IPC. Only the face snapshots successfully matched with the face database can be searched in the Search interface (Home $\rightarrow$ Face Surveillance $\rightarrow$ Search).

FTP Settings: Send the captured pictures to FTP. Please set the corresponding parameters according to your FTP server.

# 5 Face Recognition Management

Before using intelligent functions, please confirm the default intelligent analysis server is online.

Go to Home  $\rightarrow$  Resource Management  $\rightarrow$  Intelligent Analysis Server. There is a default intelligent analysis server. Please make sure the server is online.

Add, Edit or Delete Device	Device	Setting Area Setting Cl	hannel Group Se	tting			
Device Type	^	Server Name	IP Address	Port	Client Co	Authentic	Edit
Encoding Device (Online/Total n	umbe	Intelligent Analysis Server	10.20.52.7	6069	Online	Online	
Decoder (Online/Total number:0	)/0)						
LED Display Device (Online/Tota	l numl						
Intelligent Analysis Server (Onlin	e/Tota						
Storage Server (Online/Total nur	mber:1						
Media Transfer Server (Online/Te	otal nu						
Access Server (Online/Total num	ber:0/						
Alarm Server (Online/Total num	ber:1/1						
TV Wall Server (Online/Total nur	mber:1						

### 5.1 Face Surveillance

### 5.1.1 Face Surveillance Settings

If it is the first use of face surveillance function, please configure it in the following order.

Create a group  $\rightarrow$  Add targets to the group  $\rightarrow$  Set task  $\rightarrow$  Real-time View  $\rightarrow$  Search faces

1. Create a group, add targets to the group and set Task. Please refer to chapter 6 People Management for details.

2. For the added NVR with face recognition function please set the face comparison parameters by entering Resource Management  $\rightarrow$  Device Setting interface. Refer to the following interface.



Please select "Successful Recognition" or "Stranger" as needed and then set the schedule separately. After that, check the group and set the similarity. Finally, save the settings by clicking [Apply].

If the face comparison settings cannot be set according to the above-mentioned way, you can log in the web client of the NVR and then configure face recognition to realize the auto report of the face match result as shown below.

			Camera Name		IPC2333		
_			Face Rec	ognition	LP	'R	
Live Display Playback	Search and Backup Intelligent A	nalysis Function Panel	Detection	Recognition	Detection	Recogn	
Exent Notification	Function Panel  Face Recognition		Face Data	abase 🧀	Plate Data	abase 🥕	
Alarm-out E-mail Display Buzzer  Push Message Audio Light	Camera Name	IPC2333	- Enable ☑ Successful Recognition □ Stranger Parameter Settings Successful Recognition Stranger				
Alarm Server	Face Recognition	LPR	· · · ·		oranger		
	Detection Recognition	Detection Recognition	Face Group	More 🗹 AIL	01;		
Face Recognition LPR	Face Database 🌧	Plate Database 🌧	schedule	24x7	Schedule Manag	gement	
People/Vehicle Perimeter More	Enable Successful Recognition	Stranger	Text Prompt				
~44	Parameter Settings Successful Recogn	ition Stranger	Enable alarm out	tput pulse(Access Con	itrol)		
Kotion Sensor	Face Group	Similarity(%)	Trigger General		Record Configure		
Combination Alarm [IPC Offline] Exception Handling Settings	01 75		Push		IPC2333		

Additionally, please make sure the face detection function is enabled for the AI IPC (click Device Setting→Face Detection).



### 5.1.2 Real-Time View

If the IPC supports face detection, you will view the face capture picture.

The screen display mode: 1/4/9/16 can be selected.



If the added AI camera/panel supports temperature measurement and mask detection, you will see the detailed face match information, including mask status, body temperature, snapshot camera, snapshot time, etc.

Click the + button on the top left corner of the captured face picture to add the face picture to the library quickly; click the Q button to enter the Search by Face interface quickly.

			A	Add to Group			×
	Person List Search		Name: Gender:	Male V	Birthday: Country:	2021-02-02	
			Province: Work type: ID Type: ID NO: Remark:	ID Card V The default is the device bound to th	City: Work ID: Telephone:	a Group II	
Mask Stor Tempera	VIP List Visitor List	× •		The default is the device bound to th	e target distributior	i Group []	
Channel:IPC	BlackList	¥				ОК	Cancel

Put the cursor on the captured picture and then click 🖬 to quickly download the captured picture. Put the cursor on the captured picture and then click 🔲 to quickly search images by this picture.

Face Recognition NVR	earch Result Track List \	/iew Trac	ck Map Display					
default area		No.	Time	Monitoring Point	Similarity	Picture	Record Playback	Temperature
└─ 😡 📾 Device Name		1	2021-01-26 08:39:37	Device Name_IP Camera01	45%	Ċ	۲	
		2	2021-01-26 08:39:38	Device Name_IP Camera01	33%	C	۲	
		3	2021-01-26 08:39:40	Device Name_IP Camera01	49%		$(\blacktriangleright)$	
Select Image		4	2021-01-26 08:44:46	Device Name_IP Camera01	35%		$\bigcirc$	
		5	2021-01-26 08:45:37	Device Name_IP Camera01	37%		$\bigcirc$	
		6	2021-01-26 08:52:27	Device Name_IP Camera01	48%		۲	
tart Time         2021-01-26 00:00:00           and Time         2021-01-26 23:59:59           tax. Number         100		7	2021-01-26 08:54:48	Device Name_IP Camera01	45%		$\bigcirc$	

The right panel of the real-time view interface is face match result area.

Click it to view the matched details.

Verified Ta	rget Info ×
Alarm Source: Device Name_IP Camera01	Alarm Time: 2021-01-26 10:17:49
People Management: 1005	
Name 33	Gender Male
Birthday	Lib Name
ID Type ID Card	
ID No.	
Work ID	
Remark	
	OK Cancel

ClickImage: too clear all face match result.ClickImage: too display all face match result.ClickImage: too display unmatched result.ClickImage: too display matched result.

### 5.1.3 Search Snapshots and Comparison Result

① Go to Face Recognition  $\rightarrow$  Search interface.

- 2 Select the IPC and picture source.
- 3 Select the captured match pictures from intelligent server or face recognition NVR.

④ Set the start and end time and then click [Search] to search the face pictures.



Put the cursor on the captured picture and then some shortcut buttons will be displayed.



Click + to add the capture picture to the library. Select the library on the left and then fill out the information of this target. Click [OK] to add.

Put the cursor on the captured picture and then click Put the cursor on the captured picture and then click Put the cursor on the captured picture and then click to quickly download the captured picture.

#### > Search Comparison Result

Only the match results from the intelligent server can be searched.



### 5.1.4 Search Image by Image

This function is only available for the NVR with face recognition function.

① Select a picture and picture source.

2 Set the start time and the end time.

③ Set the maximum count and similarity.

(4) Click [Search].

Face Recognition NVR	Search Result		ck Map Display					
<ul> <li>✓ default area</li> <li>✓ ▲ 1</li> </ul>		No.	Time	Monitoring Point	Similarity	Picture	Record Playback	Temperature
🗁 🗹 💼 Device Name		1	2021-01-26 08:39:37	Device Name_IP Camera01	45%	Ċ	۲	
		2	2021-01-26 08:39:38	Device Name_IP Camera01	33%	C		
		3	2021-01-26 08:39:40	Device Name_IP Camera01	49%			
elect Image		4	2021-01-26 08:44:46	Device Name_IP Camera01	35%			
		5	2021-01-26 08:45:37	Device Name_IP Camera01	37%			
		6	2021-01-26 08:52:27	Device Name_IP Camera01	48%			
rt Time 2021-01-26 00:00:00 1 Time 2021-01-26 23:59:59 x. Number 100		7	2021-01-26 08:54:48	Device Name_IP Camera01	45%			

Click **()** to play the record in a small window.

• E-Map Track View:

Create an E-map. You can create or delete an E-map in this interface. The hot spot can be added to the E-map too.

	E-Map Setting	×
Map Management	Create Map Delete Map	
B & 1	Create Map     Map Name   Parent Map   Map Type   Google Map   Picture Map   Search     Device Name   Perice Name   Perice Name     Perice Name </th <th></th>	
Monitoring Point ~		
Sensor 👻		

Play Track Line:



#### Playback by Tracks



### 5.1.5 Other Settings

#### • Pop-up Window Setting

Real-time	e Monitoring	Image Search by Face	Search	Configuration	
Block List	Pop up	○ Don't pop up			
Allow List	Pop up	○ Don't pop up			
Stranger	Pop up	○ Don't pop up			
Frame Hold	ding Time(s) 🖲	Always Show O Automat	ically Hide(3s)	O Automatically	Hide(5s) O Automatically Hide(10s)
Pass-by(	Today)	Abnormal Temp	Mask Off		
Face Co	mparison(Toda	ay) 🔲 Block List	Stranger		
					Apply

In this interface, you can choose whether to pop up the alarm window when the camera detects a stranger or a person in the block list or allow list. Additionally, you can choose the holding time of pop-up box.

Total Pass-by (Today)/Abnormal Temp/Mask Off/Face Comparison (Today)/Block list/Stranger: If enabled, the statistical information will be shown on the real-time view interface.

Real-time Monitoring Image Search by Face S	earch Configuration					
Monitoring Point A Pass-by(Today): 6	Abnormal Temp: 0	Mask Off: 0	Face Comparison(Today): 64	Block List:	Stranger: 52	
Search Q					Face Comparison	[@][88] ^
Г						
	Face Comparison Alarm-			_		
	Block List	🗌 Stranger				
			ОК			

#### • Face comparison alarm setting:

If "Block list / Stranger alarm" is selected, the alarm information will be shown on the real-time alarm list (see the following picture) or it can be searched from the alarm log.

Device Alarm 🛛 Motio	vice Alarm 🖉 Motion Detection 🗟 Face Alarm 🗟 Other Intelligent Alarm 🗟 Sensor Alarm 🗟 Offline Alarm 🗟 Server Alarm 🗟 Alarm Task 🔵 SOP Filter Unhand										
Alarm Time	Alarm Source	Alarm Type	~ :	Storage Playback	Device Playback	Storage Snapshot	Device Capture	Alarm Processir	ig Handling St	atus Dispositio	on
2021-07-07 15:15:23	IP02	Monitoring Point-stranger alarm	1								
2021-07-07 15:15:19	IPC146	Encoder Offline Alarm									
2021-07-07 15:15:10	IP02	Monitoring Point-Motion Detection	n								
2021-07-07 15:15:10	K96	Monitoring Point-Motion Detection	n								
			_						<b>/lemory: 38%</b> 20.		1

## 5.2 Face Greeting

Face Greeting: After successful face comparison, the words/voice of welcome will be heard by the guests and their photos will be shown on the screen.

Click "Face Greeting" to go to the face greeting interface. The setting steps are as follows:

① Create a VIP group and add targets for this group in the VIP list interface. Then bind the VIP person and the camera. The setting details are similar to adding targets to the person list. See chapter 6 for details.

Note: the camera for face greeting must support face recognition function, such as face recognition and access control panel, face recognition camera and so on.



eople Management Sync Records	Visitor Record	d Task					
Person List VIP List Visitor List	BlackList	3					
VIP List 1	Delete A	dd Clear	All Targets Cl	hange group	Failure re	ecord Custom	Expor
earch Q Default Group	Reversely sele	ect 🚺 📃					
2			Adc	d Target			×
			7				
	×	Name:	4		Birthday:	2021-02-02	~
		Gender:	Female	$\checkmark$	VIP Level:	General	$\checkmark$
		Regdate:	2021-02-02	<u>^</u>	Telephone:		
	2/10	Country:			Province:		
		ID Type:	ID Card	$\checkmark$	City:		
		ID NO:					
		Remark:					
		The default	t is the device bou	nd to the tar	get distributio	n Group [Default (	Group]

② Select the schedule, face match type in the Task interface of the people management (See 6.3 for details).

③ Set camera deployment. Drag the camera name to the preview window. When there are targets detected, the match result will be displayed on the right panel.



④ View the match result of the greeting screen. Click the "Display Setting" tab to set the sub screen (greeting screen). In this interface, greeting screen background style, screen display mode, VIP box style, face greeting language and so on can be set up. Select the sub-screen display channel: double clicking on the sub-screen box as shown below displays a camera selection box. Choose the desired cameras and then click [OK] to save the settings. Multiple cameras can be selected at a time.

Camera Deployment VIP Search Display Setting				
ace Greeting Sub-screen Settings:				
Greeting Screen Background Style Video V Screen Display Mode 1 V				
VIP Box Style With borders 🗸				
Voice Broadcast 🕢		Select Camera ×		
Voice Play Order Welcome voice + Guest name 🗸	Selectable Device	Ô	Selected Device	
Greeting Language Welcome				
Birthday Greetings Happy birthday!	D 196A2_102A1	>		
Max. Number of VIP Box (1-5) 3	196A2_247			
Duration Time of VIP Box (s) 5	D 196A2_248			
Loop Playback	196A2_34			
Single VIP Cycle Time(s) 20	D 196A2_5138			
Single VIP Box Size (ranges from 60 10% to 99%)	196A2_76	>>		
Apply	□ 196A2_82	~		
Link Camera to Sub-screen	🗆 196A2_88			
		>	<	<b>•</b> >
Double click to select or change chan			ОК С	ancel
Double click here				

Greeting Screen Background Style: three options: Video, Background Picture and Pure Color Background

Screen Mode: 1/4/9/16 screen display mode can be selected.

VIP Box Style: with borders or pure image.

Voice Broadcast: if enabled, the welcome voice will be broadcasted when the VIP person is successfully recognized.

Voice Play Order: choose which one to broadcast first between welcome voice and guest name

Face Greeting Language: please enter the content as needed.

Max. Number of VIP Box: up to 5 boxes.

Duration Time of VIP Box: set the duration time of VIP box appearing after the captured face is matched successfully.

Loop Playback: if enabled, the VIP name will be broadcasted in a loop.

Single VIP Cycle Time: set the time of the single VIP name broadcasted.

Single VIP Box Size: set the percentage of VIP box size occupying the entire screen.



(5) Search the face greeting records. Click "VIP Search" tab as shown below.
IPList	•	Display Settin	L-02-02 00:00:0	0	End Time 20	21-02-02 23:59:59	Search					
rch VIP Group	Q		02 02 000000				Scalen					
	NO	Name	Gender	VIP Level	Regdate	Telephone	Time	Monitoring Point	Temperature	Mask Status	Picture	
	1	4	Female	General	2021-02-02		2021-02-02 15:29:44	IPC	36.6°C	Mask On		
	2	4	Female	General	2021-02-02		2021-02-02 15:29:43	IPC		Mask On		
	3	4	Female	General	2021-02-02		2021-02-02 15:29:16	IPC		Mask On		
VIP Level:												

You can enter the key word to search the target or manually select the target from the library. Then set the start time and the end time and click "Search" to search the record. The detailed information of this target will be shown. Click 💿 to play the record.

## 5.3 Face Attendance

The attendance records of the employees can be viewed and traced after adding the persons to the person list and setting the attendance rules.

#### Flow Chart:



### 5.3.1 Add Attendance Group and Targets

1. Create an attendance group and add targets for this group in the person list interface. Then bind the person and the attendance camera. See chapter 6 for details.

Note: the attendance camera must support face recognition function, such as face recognition and access control panel, face recognition camera and so on.

2. Configure the schedule and face match way of the camera. See 6.3 Task Management for details.

### 5.3.2 Set Attendance Rules

Go to the Working Day Setting interface to set different attendance rules. The system will compare the pre-defined attendance time and the actual attendance time and trigger alarms when an exception attendance event occurs. The attendance rule settings include basic configuration, attendance period setting, attendance shift, personnel scheduling and attendance handling.

#### 1. Attendance Period Settings

Camera Deployment	Working Da	y Setting	Attendance	Record S	atistics
Basic Configuration	Attendance	Period			Basic Setup:
Attendance Period	Add	Delete	Search	Q	
Holiday settings		Period	Edit	Delete	Period: 9:00-18:00
Attendance Shift					Time Setup:
Personnel Scheduling		9:00-18:00			Start-work Time: 09:00 🔷 Valid Check-In: 07:30 🔷 - 10:30 🗘 Must Check In
Attendance Handling		1			
					Work Hours: 9.00 Hours
					Over:     0 $\widehat{\frown}_{\nabla}$ minute is late       Late over:     40 $\widehat{\bigtriangledown}_{\nabla}$ minute is absent
					Advance: 0 🗘 minute is leave early Leave early over: 40 🗘 minute is absent
					Overtime Setup:
					Later than End-Work Time for: 0.8 💮 hour(s) is Overtime Level 1
					Later than End-Work Time for: 1.0 🗘 hour(s) is Overtime Level 2
					Later than End-Work Time for: 1.2 🗘 hour(s) is Overtime Level 3
					Dinner Time: 0 🔷 Mins

If a company has different working time for different employees, you can add different attendance rules.

Click [Add] to set the detailed attendance rule. After that, click [Save] to save the settings.

**Basic Setup**: set the normal working period.

Start-work time: the normal start-work time

End-work time: the normal end-work time

Valid check-in: Set the valid check-in period. If the employees check in before/after this period, the check-in will be invalid and will be regarded as "Not check-in".

Work hours: automatically calculate according to the start-work and end-work time.

Clicking on (+) displays another timetable. You can set the detailed rules for work time.

Time	setup:				
	Start-work time: 09:00	Valid check-in: 07:30	- 09:30	Solution Must check in	
	End-work time: 12:00	Valid check-out: 11:59	- 13:01	Must check out	(+)
	Work hours: 3.00 hours				
	Start-work time: 09:00	Valid check-in: 07:30	- 10:30	🕀 🗆 Must check in	
	End-work time: 18:00	Valid check-out: 16:30	<u>^</u> - 19:30	Must check out	$\bigcirc$
	Work hours: 9.00 hours				)

**Must check-in/out**: "Must check in" next to the first valid check-in period and "Must check out" next to the last valid check-out period are checked by default. That is to say, in the first check-in period, the employees must check in; in the last check-out period, the employees must check out. During the period that "Must check in/out" is not checked, the employees don't check in/out, who will not be regarded as "Not check in/out" or "Absent".

#### Allow Late/Leave Early:

**Over xx min is late:** set the allowable minutes for late. If the employees check in within the period after the start-work time, the status will be "Normal".

Advance xx min is leave early: set the allowable minutes for leave early. If the employees check out within the period before the end-work time, the status will be "Normal".

For example: The start-work time is set as 09:00, and the late allowable duration is 20 minutes. If the employee checks in at 9:15, the attendance status will be "Normal".

#### Absent:

Late over xx min is absent: if the employees checking in later than this time will be marked as "Absent". For example: The start-work time is set as 09:00, and the absent allowable duration is 40 minutes. If the employee checks in at 9:45, the attendance status will be "absent".

Leave early over xx min is absent: if the employees checking out earlier than this time will be marked as "Absent". For example: The end-work time is set as 18:00, and the absent allowable duration is 40 minutes. If the employee checks out at 17:19, the attendance status will be "absent".

Overtime setup: there are three overtime levels. Please set as needed.

Dinner time: if checked, the system will automatically deduct the dinner time from the overtime. The overtime level depends on the time duration after deducting the dinner time.

#### 2. Holiday Settings

You can set a special day as a holiday. The holiday here takes priority over the attendance shift. That is to say, once a day is set as a holiday, there is no need for you to check in even if it is scheduled in the working day.

Camera Deployment	Working Day Setting	Attendance Recor	d Statistics			
Basic Configuration Attendance Period	Add Delete					
Holiday settings	Name	Holiday time	Holiday days			Operation
Attendance Shift Personnel Scheduling		2021-12-27	1			
Attendance Handling			Add Holiday	×		
		Holiday n Holiday d Start date	lays 1			
			ОК	Cancel		

#### 3. Attendance Shift Settings

Attendance Shift: The employees shall perform their duties according to the shift schedule.

Click [Add] to set the shift name and shift schedule.

Shift cycle can be set by day, week or month. The schedule will automatically repeat according to the set day(s), week(s) or month(s). Day: You can customize the attendance period of each day. The number of days should be between 1 and 31.

Week: The schedule will repeat every 7/14/21/28/35 days based on the week.

Month: You can customize the attendance period of each month.

Camera Deployment	Working Day Setting Attendance Record	Statis	stics		
Basic Configuration Attendance Period	Shift Add Delete Search C	λ	Shift Name: 默认班次		
Holiday settings Attendance Shift	Shift Name Edit De	let	Shift Cycle: 2 🗸	week 🗸	
Personnel Scheduling			No.	Time	Period 🗸
Attendance Handling			1	Mon.	9:00-18:00
			2	Tue.	9:00-18:00
			3	Wed.	9:00-18:00
			4	Thu.	9:00-18:00
			5	Fri.	9:00-18:00
			6	Sat.	Rest
			7	Sun.	Rest
			8	Mon.	9:00-18:00
			9	Tue.	9:00-18:00
			10	Wed.	9:00-18:00
			11	Thu.	9:00-18:00

After you set the shift schedule, click [Save] to save the settings.

#### 4. Personnel Scheduling

You can set different schedule for different attendance groups or employees.



Select the attendance group or employee and then click [Scheduling] to select the shift and schedule start time and end time. Finally, click [Ok] to save the settings.

If the schedule for the attendance group or the employee needs to modify, select the group or person, click [Delete the scheduling] to delete the current schedule.

If there is something wrong with the attendance shift, you can select the person or group on the left and click [Scheduling] to modify.

When the temporary scheduling is needed, select the person or group, click [Temporary Scheduling] and select date and period. After that, click [Ok] to save the settings.



If you want to modify the temporary scheduling, you can select the person or group and click Temporary Scheduling to modify. Click

[Delete] to delete the temporary scheduling of the day.



#### 5. Attendance Handling

If someone needs to apply for leave or correct the check-in/out record, you can enter the attendance handling interface to set up. Leave/Business-Trip Settings:

- ① Select the employee who want to apply for leave or do business trip.
- 2 Click [Leave/Business-trip].
- ③ Select the date the employee wants to apply for leave or do business trip.
- ④ Select the type, sub type, leave time and remark.
- ⑤ Click [OK] to save the settings.

: click it to set the sub type of leave or business trip.

Staff List Search	Correct Cl	neck in/out Leave/E	Business-trip				
□- 🖬 Default Group	<			2021 🗸	2 🗸		
<b>1</b> AY	Sur	Mon	Tu	e Wee	l Thu	Fri	
<u> </u>	31	1	2	3	4	5	6
	7	8	9	10	11	Leave/Busines	ss-trip 13

#### Cancel Leave/Business-Trip:

When the leave or business-trip cancels, you can go to the attendance handling interface to cancel it.

- 1. Select the person you want to cancel the leave/business-trip and then a timetable will display.
- 2. Clicking on the Leave/business trip tag will display a Leave/business-trip detail box.
- 3. Move the slide bar to the right as shown below. Click  $\square$  to cancel this item.

		Leave/Business-trip o	detail		×
Leave type	operator	Remark	Edit	Delete	
Sick leave	admin				

In addition, you can also correct check-in/out time for the exceptional records according to actual needs.

### 5.3.3 Search Attendance Record

You can search the desired attendance records to view the employee's attendance status by filtering the conditions, such as attendance group, name, etc.

- 1. Click Home→Face Attendance→Attendance Record to go to the following interface.
- 2. Set the search conditions, such as time, group, name, attendance status (abnormal, overtime, business-trip, etc.).
- 3. Click [Search] to filter the attendance records.

	~								100	-
arch	Q	Time 2022-01-01	2022-01-03 😳 Gro	up 📔 NVR .	✓ Name	Searc	h	Custom E	xport Calculation	Recalcula
▲ 人給NVR		Attendance Detail	Abnormal Overtin	ne Business-trip	Leave Paid Leave	Detail No Ch	eck-In/Out Record/No Te	emperature Record	Attendance Summary	
111		Time	Group	Work ID	Name	Attend Status	Time of Entry	Time of Exit	Standard(hour)	Practi
1 222 1 3333		2022-01-01	NVR		image (63)	Day off	No Check-In/Out Re	No Check-In/Out Re	0.00	
<b>1</b> 444 <b>5</b> 555		2022-01-02	NVR		image (63)	Day off	No Check-In/Out Re	No Check-In/Out Re	0.00	1
<b>1</b> 9999		2022-01-03	NVR		image (63)	Normal	No Check-In/Out Re	No Check-In/Out Re	9.00	
<ul> <li>1 aa</li> <li>1 image (61)</li> </ul>		2022-01-01	NVR		image (64)	Day off	No Check-In/Out Re	No Check-In/Out Re	0.00	(
1 image (62)		2022-01-02	NVR		image (64)	Day off	No Check-In/Out Re	No Check-In/Out Re	0.00	(
<ul> <li>image (63)</li> <li>image (64)</li> </ul>		2022-01-03	NVR		image (64)	Absent	No Check-In/Out Re	No Check-In/Out Re	9.00	
image (65)		2022-01-01	NVR		image (65)	Day off	No Check-In/Out Re	No Check-In/Out Re	0.00	
1		2022-01-02	NVR		image (65)	Day off	No Check-In/Out Re	No Check-In/Out Re	0.00	(
1		2022-01-03	NVR		image (65)	Absent	No Check-In/Out Re	No Check-In/Out Re	9.00	(
1		2022-01-01	NVR		leon	Day off	No Check-In/Out Re	No Check-In/Out Re	0.00	(
î		2022-01-02	NVR		leon	Day off	No Check-In/Out Re	No Check-In/Out Re	0.00	(
		2022-01-03	NVR		leon	Absent	No Check-In/Out Re	No Check-In/Out Re	9.00	0
		2022-01-01	NVR		张10	Day off	No Check-In/Out Re	No Check-In/Out Re	0.00	C
		2022-01-02	NVR		₹¥10	Day off	No Check-In/Out Re	No Check-In/Out Re	0.00	

The attendance detail of each day, abnormal status, overtime and so on can be displayed.

After setting temporary shift or holiday, click [Recalculate] and then select the date on which the temporary shift or holiday has been set. Finally, click [Search]. The updated attendance data will be displayed. Refer to the following pictures.

Camera Deployment	Working Day S	etting	Attendance Rec	ord Statistics							
Staff List	Â	Time	2022-01-11	2022-01-11 🗘	Group NVR	✓ Name 111	Search		Custom E	xport Calculation	Recalculate
Search	Q	Time	2022-01-11	2022-01-11			Search	•	Custom	Calculation	Recalculate
		Atte	ndance Detail	Abnormal O	vertime Business-trip	Leave Paid Leave	Detail No Che	ck-In/Out Record/No T	emperature Record	Attendance Summary	
□ □ /R 111			Time	Group	Work ID	Name	Attend Status	Time of Entry	Time of Exit	Standard(hour)	Practical(h
222					WORK ID						
- 1 3333			2022-01-11	:NVR		111	Absent	No Check-In/Out Re	No Check-In/Out Re	9.00	0.00
~ 1 444 ~ 1 555											
9999											
- <b>1</b> aa											
- 👤 image (61) - 👤 image (62)											
1 image (63)											
image (64)											
- 🙎 image (65) - 👤 leon											
- 1											
- 1 2											
· 1 3											
Camera Deployment V	Working Day Se	tting	Attendance Reco	ord Statistics							
Basic Configuration	Add De	lete									
Attendance Period	Add De	lete									
Holiday settings		Name	Holiday time	Holiday days				Operation			
Attendance Shift		Holiday	2022-01-11	1							
Personnel Scheduling											
Attendance Handling											



	^					$\sim$	<b>`</b>			
earch	Q	Time 2022-01-11	2022-01-11	Group 📄 :NVR	∨ Name 111	Search		Custom Ex	ort Calculation	Recalculate
						1				
/R		Attendance Detail	Abnormal O	vertime Business-trip	Leave Paid Leave	Detail No Ch	eck-In/Out Record/No Te	mperature Record	Attendance Summary	
		Time	Group	Work ID	Name	Attend Status	Time of Entry	Time of Exit	Standard(hour)	Practica
- 1 222							,			(
- 13333		2022-01-11	;NVR		111	Day off	No Check-In/Out Re	No Check-In/Out Re	0.00	0
<b>1</b> 444										
- 1 555										
- 19999										
- 👤 aa										
👤 image (61)										
🔍 👤 image (62)										
👤 image (63)										
1 image (64)										

Click [Custom export] to export an Excel of the attendance result. These exporting items can be customized as needed.

Cust	om Export X
Path	Ð
Format .xlsx 🗸	
Items	Select All Reverse Clear All
🗹 Time	Group
Work ID	Name
Attend Status	Time of Entry
🗹 Time of Exit	Standard(hour)
Practical(hour)	Come to Work Late(frequency/hour)
Leave Early(frequency/hour)	Absent(frequency/hour)
Business-trip(frequency/hour)	Leave(frequency/hour)
Paid Leave(frequency/hour)	Overtime(frequency/hour)
🖉 Overtime Level	☑ Details
	OK

### 5.3.4 Real-time View

Click Home $\rightarrow$ Face Attendance $\rightarrow$ Camera Deployment to go to the following interface.

Drag the attendance camera to the preview window. Then you will see the live video. The face match result will be displayed on the right of the interface.

**Note**: The compared person in attendance system shall be added in the person list in advance. One person only can be added in one group. If this person also be added in other groups (like VIP list), the comparison result will not be obtained.



View the match result of the sub-screen:

- ① Click Face Attendance → Working Day Setting → Basic Configuration.
- 2 Double clicking on the box displays a camera selection box. Select the desired camera and then click [OK] to save the setting.



(3) Click Face Attendance  $\rightarrow$  Camera Deployment. In the camera deployment interface, right click on the screen to select "Project onto" to select sub screen. Then you will see the face display on the sub screen as shown on the below.



### 5.3.5 Statistics of Attendance Data

In the statistics interface of Face Attendance, you can view the attendance data in the form of chart.



Staff statistics ?		Employee Rar	nking		
Overtime Late Leave Early Absent Leave		Overtime Late	Leave Early	Absent Leave	
13.47%	• 3333	Rank	Staff	Duration/hour	Frequency
9.20%	• 222 • 111	1	3333	20.92	6
18.33%	• 9999	2	222	15.37	5
9.19%	<b>(</b> 11	3	111	10.50	3
	•	4	9999	10.49	3
9.14%	• •	5	1	10.43	3
14.13%	• . 27	6	4	9.90	3
8.67%	•	7	0	6.87	2
6 <u>.02%</u> 5.88%	<ul> <li>Others</li> </ul>	8	!7	6.80	2
		9	7	6.71	2
					Ť

Granularity: Group or human can be selected. If Group is selected, the attendance data of each group (department) can be viewed. If Human is selected, the attendance data of the employees in the group (department) can be viewed. You can quickly view the attendance data by week/month/year and also can view the attendance data in a specified period.

# 5.4 Smart View

In the home page, click "View" and select "Change to Smart View Page".



## Mini Server User Manual



In this page, you can view the statistics of smart events, such as license plate recognition, face recognition, line crossing human/vehicle counting. Click to enter the corresponding intelligent analysis configuration interface.

# 6 Live View

# 6.1 Live View

Go to Home $\rightarrow$ Video Preview interface as shown below.



The descriptions of the live view buttons are as follows.



NO.	Description		Description
1	1 Screen display mode		Close all videos
2	2 Full screen		Save the current view mode
3	Enable/disable broadcast	8	Image export
4	4 Manual alarm output		Choose the camera stream
5	Show the smart event detection area	10	Show smart snapshot

Channel stream: main stream, sub stream, third stream and self-adaptive stream can be optional. When the third stream is selected, the system will automatically switch to sub stream if the channel/camera doesn't support the third stream.

Toolbar on the display window:

Button	Description	Button	Description
æ	Close image	Ø	3D zoom in
0	Start/stop recording	Q	Zoom in
	Enable/disable audio	Ø	Zoom out
Ó	Snapshot	Ж	Fit to window
	PTZ control	Ā	Enable/disable talkback
۲	Monitoring point setting (camera setting)		

### Right-click button function:

Menu	Description	Menu	Description	
Close Channel	Close image	Snapshot	Capture images	
Start Record	Start/stop recording	Start Talkback	Enable/disable talkback	
Instant Playback	Click it to play back immediately	Channel Info.	Display channel name, IP address and the current stream	
Audio ON	Enable/disable audio	Stream	Choose video stream	
PTZ Control	Click it to show PTZ control panel	Full Screen	Display image in full screen	

4:3/16:9/Original Size/Full Screen: screen display proportion; please select it as needed.

Note: the platform only can enable audio of one window. If the audio is enabled in one window, the audio in previous window will be disabled.

## 6.1.1 Monitoring Point View

#### • Start View

To start live view, please drag cameras from the list to the right display window or select a window and then double click the camera. The image can be dragged to any window at random.



#### • Stop View

- 1 Place the cursor on the live view window to display the menu toolbar and then click 🔊 to stop viewing.
- 2 Right click on the live view window and then select "Close Channel" to stop viewing.
- ③ Click 🔟 on the toolbar of the live view interface to stop all live view.

#### • Smart Snapshot

In the video preview interface, drag the AI IPC to the preview window and then click IIPC. This will bring a smart snapshot list on the

right panel. The captured people/motor vehicle/non-motor vehicle picture will display in real time.

**Note**: Only when the AI IPC with human/vehicle classification function enables the corresponding smart event, such as line crossing, region intrusion/entering/exiting and target counting, can smart snapshots be displayed. Please go to Home $\rightarrow$ Resource Management $\rightarrow$ Device Setting interface to enable the corresponding smart event and check the detection target as shown below.



After that, you will see the smart snapshots as shown below.





Click the B button of the captured picture to view the snapshot detail as shown below.



In the above interface, click the play button to enter the storage playback interface to play the video. **Note**: the record schedule shall be enabled in advance or no recorded video can be played.

	Record Setting Schedule Setti	ng				
	Area	Device name	Stream Type 🗸	Record Schedule	Audio	✓ Recording Before A
Storage Playback	Search	Device Name_IP Camera01	Main Stream	OFF 🗸	Open	0
Record Playback   By Time Slice   By Event		Device Name_IP Camera02	Main Stream	OFF	Open	0
By Tag   Record Backep   Search Picture Record Setting   Schedule Setting		Device Name_IP01	Main Stream	<u>7*24</u> 5*24	Open	0
Schould Setting		Device Name IPC	Main Stream	OFF	Open	0

## 6.1.2 Channel Group View

### > Channel Group Setting

① Go to Home  $\rightarrow$  Channel Group Setting interface as shown below.

Add, Edit or Delete Dev	vice Device Setting	Area Setting	Channel Group Setting		
Add Delete		A	dd Channel Group		×
Channel Group N	Channel Group Name				
▶ <b>:</b> 1	Keyboard Number				
	Dwell Time	5Sec			~
	Parent Channel Group				
	Selectable De	vice	S	elected Device	
	🔺 🔲 default area		🕞 🗆 defaul	t area	
	Camera			Camera	
	🗌 IP Camera01				
	🗌 IP Camera02				
	<		>>		•
	Search Q	Select All Rev	erse Clear All	OK Ca	ancel

2 Click [Add].

③ Enter channel group name, channel group and dwell time.

(4) Select the parent channel group.

(5) Add channels to the channel group. Check the desired channels and click  $\geq$  to add channels; choose the selected channel and click  $\leq$  to remove those channels; Click  $\geq$  to add all channels; click  $\leq$  to remove all selected channels. You can also enter the key words to search the channels and then select them.

6 Click [Ok] to save the settings.

### > Start Channel Group View

After the channel group is set successfully (See Channel Group Setting), go to live view interface as shown below.



You can start the channel group view as follows.

1. Choose the screen display mode according to the channel number of the channel group. Select a window and then double click the channel group name or dragging the channel group to a window to play all channels in the group.

2. In the current screen display mode, select a window and then click 🙆 beside the channel group name to play all channels of the

channel group in this window in sequence.

If there is only one sub channel group under the parent group, select a window and then click in the parent group name to play all channels in the parent group and the sub channel group in the window in sequence.

Select a window and click on next to the sub channel group to play all channels of the sub channel group in this window in sequence. 3. If there are several sub channel groups under the parent channel group, click on next to the parent group name and then all sub

channel groups will play in sequence. The screen display mode will automatically adapt to the channels of the sub group.



Click 🔟 to play the previous sub channel group; click 🗾 to play next sub channel group; click 🔟 to stop auto switch among the sub channel groups.

### > Stop Channel Group View

- 1 Place the cursor on the auto-switch window and then click  $\bigcirc$  to stop viewing.
- 2 Right click the auto-switch window and then click "Close Channel" to stop viewing.
- ③ Click 🔊 on the toolbar of the live view interface to stop all live view.



### 6.1.3 Plan View

In the live view interface, select "View" on the left menu bar.

					Monitoring Channel Gr		- -	Monitoring Point Channel Group	* *
		A Home	Live View1*	+	View			View 123456 view1*	^
Monitoring Point Channel Group View	~ ~					Modify View Delete View			Create View Save View Modify View
🛄 Live View1*									Delete View

#### • Add View Plan

① Right click "Live View 1" and then select "Create View" or click 🛨 to add a new view plan. Clicking "Create View" to prompt an adding view window. Enter the view name and click [OK] to set view plan.

2 Select screen display mode and then drag monitoring points or channel group to each window.

③ Click "View" on the left menu and then right click the newly added view name. Select "Save View" on the pop-up menu to save the

view plan or click is on the live view interface to save the view plan. Double click view name to call the view plan.

### • Modify or Delete View Plan

Select the added view and then right click to prompt a pop-up window. Select "Modify View" or "Delete View" to modify or delete the view plan.

#### • Start/stop auto-switch

If multiple view plans saved, you can play these views in sequence.



Enter the dwell time (5~3600s) and then click [Start auto-switch] to play these views in sequence. Stop the current auto-switch by clicking [Stop auto-switch].

## 6.2 Multi-Screen View

In the video preview interface, multi-screen view can be realized by holding a tab and dragging it to other monitors (graphics card should support multi-screen output at the same time).



Click on the float window and select "Return to Main Window" to embed this tab in the main interface.



# 6.3 PTZ Control

Click or right click to select "PTZ Control" to enter PTZ control interface. The directions of PTZ, zoom, focus, Iris, preset, track and cruise can be controlled through PTZ control panel.



# 6.4 Instant Playback

In the live view interface, right clik on a playing channel to select "Instant Playback" and then set the playback time to play the record instantly (the record of the channel in the past five minutes will be searched and played from that time when the record exists).



# 7 Record & Playback

# 7.1 Record Configuration

This device supports many recording types, such as manual recording, schedule recording, motion alarm recording, smart alarm recording, etc.

## 7.1.1 Schedule Recording

Go to Home  $\rightarrow$  "Record Setting".

Record Setting Schedule Sett	ting												
Area	^	Channel Name	Stream Type	~	Record Schedule	~	Audio	~	Recording Before Alarm(Sec)	~	After Alarm Time(Sec)	Expire Time(day)	$\sim$
Search default area	Q	48	Main Stream		7*24	~	Close		0		60	Never Expire	
		50.109-800w	Main Stream		OFF		Close		0		60	Never Expire	

To set schedule recording, select the channel, stream type and schedule. Then Click [Apply] to save the settings.

Recording Before Alarm: set the time to record before the actual recording begins.

After Alarm Time: set the time to record after the actual recording is finished.

Expire Time: set the expiration time for recorded video. If the set date is overdue, the recorded data will be deleted automatically.

- To set schedule:
- ① Click the "Schedule Setting" tab to go to the following interface.



2 Click [Add].

③ Enter the schedule name.

(4) Set the schedule. Click 💋 and then move the cursor to select the time; click 🥝 and then move the cursor to delete the selected

time. Click "Input Manually" to manually enter the time. Click "All" or "Reverse" to quickly select time. Click "Clear All" to clear all schedule.

	Modify Schedule	×
ScheduleName 1		Input Manually Select All Reverse Clear All
Sun. 0 2 4 6 04:39-16:15		16 18 20 22 24 Input Manually Select All Reverse Clear All
Mon, 0 2 4 6		16 18 20 22 24 Input Manually Select All Reverse Clear All
Tue. 0 2 4 6		16 18 20 22 24 Input Manually Select All Reverse Clear All
Wed. 0 2 4 6		16 18 20 22 24 Input Manually Select All Reverse Clear All
Thu. 0 2 4 6		16 18 20 22 24 I 18 19 20 19 24 I 19 19 19 19 19 19 19 19 19 19 19 19 19
Fri. 0 2 4 6		16 18 20 22 24 Input Manually Select All Reverse Clear All
Sat. 0 2 4 6 04:06-16:59		16 18 20 22 24 Input Manually Select All Reverse Clear All
ОК		Cancel

## 7.1.2 Alarm Linkage Recording

(1) Go to Home  $\rightarrow$  Device Setting interface. Select the desired device to enable the relevant alarm event and set schedules.

② Go to Home→Alarm Center→Alarm Linkage as shown below. Select alarm type, enable record, set linakage channel and set schedules.

③ Click [Apply] to save the settings.

Alarm Log Search Alarm Linka	ge Settings Schedule Setting	Manual Alarm Out SOP Setting	Alarm Task Setting	gs Email Settings			
Area ^	Alarm Type Monitoring Point-Mot	ion Detection V All (	ON All OFF	Reset Apply	Filter		Q
Search Q - default area	Record 🗸 Alarm preview	✓ Snapshot ✓ Alarm Output	Voice Broa	adcast 🗸 🗸 TV Wall 🗸	Trigger Email 🗸	sop 🗸	Schedule
	ON OFF	OFF OFF	OFF	OFF	OFF	OFF 🤇	7*24
	[*Device Name_IP Camera01] Rec	ordLinkage Setting	×	OFF	OFF	OFF	OFF
	Selectable Device	Selected Device		OFF	OFF	OFF	OFF
	🔺 🔲 default area	🚺 🖉 🔲 default area		OFF	OFF	OFF	OFF
	Device Name	✓ □ IP Camera01		OFF	OFF	OFF	OFF
	Device Name			ON	ON	ON	7*24
	Device Name	→		OFF	OFF	OFF	OFF
	Device Name			OFF	OFF	OFF	OFF
	🗆 IP Camera	»		OFF	OFF	OFF	OFF
	IP Camera02	<b>«</b>		OFF	OFF	OFF	OFF
	IP Camera07	<b>~</b>		OFF	OFF	OFF	OFF
	ON Search Q Select All	Reverse Clear All OK	Cancel				

## 7.2 Record Playback

In the main menu interface, click "Record Playback" to go to record playback interface. Record files saved on the HDD/ SD card of the

devices and storage server can be played.

There are three types of record playback: normal playback, smart playback by face, smart playback by license plate.

## 7.2.1 Normal Playback



Area Description

Area	Description	Area	Description
1	Playback area	3	Record timetable area
2	Toolbar	4	Time and event search area; resource area

Toolbar on Playback Window

Button	Description	Button	Description
æ	Stop viewing	Ð	Zoom in
	Audio on/off	Ø	Zoom out
Ô	Snapshot	Ж	Fit to window

Button Descriptions of Area 2:

Button	Description
1 -4916-	Screen display mode button. 1/4/9/16 screen mode is optional.
	Full screen
OSD ON	Enable or disable OSD
×	Close all window viewing
	Get record from network devices
	Get record from storage servers

	Rewind
•	Low speed playback
	Stop
	Play/Pause
M	Next frame. In the playback mode, click the pause button and then click this button to play frame by frame.
•	Click it to select playback speed.
×1	Click it to play in normal speed.
	Forward 30s or backward 30s
<b>&gt;</b>	Backup start time
*	Backup end time
	Start backup
	Synchronous playback or asynchronous playback

Right-click button menu

Menu	Description	Menu	Description
Close	Close viewing	Zoom out	Zoom out the current image
Audio On/Off	Audio on/off	Full Screen	Click to enter full screen mode
Snapshot	Snapshot	Sub stream	Switch to sub stream playing
Zoom In	Zoom in the current image		

Other buttons

Button	Description	Button	Description
X	Add tag		Event list
<u>Gt</u>	Backup		

Set record date, record type (for some devices, "Main Stream" can be selected to play the record, or the record will be played by sub stream if unselected) and the record playback source in the playback interface. Drag the camera on the right side to playback window for playing or double click a desired channel to play or click [Search] to search the record files and then click **b** to play.

Playback record type includes manual recording, motion detection recording, schedule recording, sensor recording, video analysis, target counting, face event and so on.

In the timetable, different color bars stand for different record types. For instance, yellow bar stands for motion recording data; blue bar stands for schedule recording data; red bar stands for sensor record data, etc.



The time scale can be zoomed in by clicking (1) and the time scale can be zoomed out by clicking (2). The time scale can be restored to 24 hours by clicking (2). When the time scale is zoomed in, drag the timeline to see the time spots.

**Synchronous Playback:** in a certain time, all channels play back its record at the same time together; if one channel has no record data at this time, this channel will wait.

Click on the toolbar in the playback interface to go to the synchronous playback interface. Please play the record according to the ways introduced as above. The record bar in synchronous mode is as below.

In synchronous mode, one camera can only have one playing window. All cameras' record information can be viewed at the same time.

When playing record file in synchronous mode or asynchronous mode, clicking is will be useless unless all the playback windows are closed.

Asynchronous Playback: when playing some channels' record at the same time, each channel is independent from the others and each channel's playback time is different.

Click to go to the asynchronous playback interface as shown below. Please play the record according to the ways introduced as the above. The record bar in asynchronous mode is as below.

### 7.2.2 Smart Playback by Face

For the added face recognition NVR, you can play back by searching face.



Clicking on enters the above interface. Select the face recognition NVR and then click to add a face picture. You can add the face picture form local PC, target picture or group. After that set the start and end time, max. number and similarity and then click [Search] to search the records.

Add a face picture from the local PC: Click to select the desired face picture in the local PC and then click [OK] to save the settings.

Add a face picture from the target picture: refer to the following picture.

		Import Target				
Local Picture Target Picture Gro	oup					
Monitoring Point	Channel IP Camera01	Time Period	± 2021-02-03 00:0	0:00 ~ 2021-02-03	3 23:59:59	
Search Q default area (Online/Total n 1 (Online/Total number: Device Name IP Camera	vice Name_IP Camera vice Name_IF 2021-02-03 08:37:41 2021-02-03		vice Name_IP Camera 2021-02-03 08:36:20	vice Name_IP Camera 2021-02-03 08:35:16	vice Name_IP Camera 2021-02-03 08:34:48	^
Device Name_IP Camera     Device Name_IP Camera     Device Name_IP01     Device Name_IPC     Select the camera	vice Name_IP Camera		vice Name IP Camere	vice Name IP Camera	vice Name_IP Camera	
Select the picture source	2021-02-03 08:34:46 2021-02-03 1	18:30:41 2021-02-03 08:30:40	2021-02-03 08:30:39	2021-02-03 08:30:37	2021-02-03 08:29:19	
Start Time 2021-02-03 00:00:00 🗢	vice Name_IP Camera vice Name_IF 2021-02-03 08:27:27 2021-02-03 (		vice Name_IP Camera 2021-02-03 08:08:06	vice Name_IP Camera 2021-02-03 08:08:04	vice Name_IP Camera 2021-02-03 08:00:28	
End Time 2021-02-03 23:59:59 🚭	$\mathbf{J}_{\mathrm{far}}$ for the care and out time	Total 1637 entries Pe	r Page18Entry	< 1/9:	1 > >>	ОК
4			Select the j	picture	6 🔶 ок	Cance

Add a face from the face database:

- 1. Click the "Group" tab.
- 2. Select the face picture from the person list, VIP list or visitor list.
- 3. Click [OK] to save the settings.



The picture must be added to the corresponding list in advance, or no picture can be searched. Refer to Chapter 6 Group Management for details.

**Note:** The record source is from the HDD of the face recognition NVR. The comparison record of this person must exist in the HDD, or no record can be played.

## 7.2.3 Smart Playback by License Plate

The vehicle records can be searched from the NVR or intelligent server. The setting steps are as follows:

1. Select the ANPR camera or NVR.

2. Enter the license plate number or click [Select plate] to select the plate from vehicle database or license plate captured when the vehicle entering or exiting the parking lot.



: select the record source from the storage server. License plate captured by ANPR camera or ANPR camera bound to the lane of the parking lot can be searched.

: select the record source from the HDD of the NVR.

**Note**: before you start searching, the license plate detection must be enabled and corresponding alarm linkages and the schedule must be set in advance.

Alarm Log Search Alarm Linkage	e Settings Sched	ule Setting Ma	anual Alarm Out SC	DP Setting Ala	rm Task Settings Em	nail Settings				
Area ^	Alarm Type Monite	oring Point-White	list vehicle		N All OFF	Reset Apply	Q			
Search Q	PTZ Control	✓ Record ∨	′ Alarm preview ~	Snapshot 🗸	Alarm Output	Voice Broadcast	TV Wall 🗸	Trigger Email	SOP 🗸	Schedule 🗸
■- default area	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	7*24 🗸
	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

### 7.2.4 Playback by Time Slice

- 1 Go to Home  $\rightarrow$  By Time Slice interface.
- 2 Select channel (or monitoring point), set the start time and the end time, select the record source and then click [Search].



③ Click  $\blacktriangleright$  to play the record.



Click 😐 button on the top right corner to play in full screen mode.

Double click the image to switch to slice search mode by day.

Double click an image to switch to slice search mode by 5 minutes.

Restart searching or click "Slice Per day" to return to the slice per day interface.

**Record Backup**: In the Search by Time Slice interface, select a time slice and then click "Record Backup" to back up the record file during this period quickly.

To Storage Playback: In the Search by Time Slice interface, select a time slice and then click "To Storage Playback" to play the record file in the storage playback interface.

### 7.2.5 Playback by Event

1) Go to Home  $\rightarrow$  By Event interface.

2 Select the desired monitoring point, set the record source, the start time and the end time and then check events.

Monitoring Point	Filter		Q Before the event	0 Sec To Storage P	lavback		Tip: F	ilter By [Name]、[Start Time]、[End Time]、[Event Ty
earch Q	No.	Name	Start Time	End Time	Duration	Туре	Playback	Record Backup
☑ △ default area (Online/Tot···· △         ☑ △ IPC (Online/Total nu····         ☑ ■ 48	1	IP 02	2021-07-07 16:20:53	2021-07-07 16:21:14	0:0:21	Manual	۲	۲
<ul> <li>✓ ■ 50.109-800w</li> <li>✓ ■ 81</li> <li>✓ ■ IP Camera35</li> <li>✓ ■ IPC146</li> </ul>	2	IP02	2021-07-07 16:20:18	2021-07-07 16:20:39	0:0:21	Manual	۲	۲
- Ø ➡ IP02 - Ø ➡ K07	3	IP 02	2021-07-07 16:20:16	2021-07-07 16:21:14	0:0:58		۲	۲
- <table-cell> 🕶 K09 - 🗹 🕶 K11 - 🕼 🕶 K13</table-cell>	□ 4	IP02	2021-07-07 16:19:28	2021-07-07 16:20:10	0:0:42		۲	۲
- 🖌 ➡ K31 - 🖌 ➡ K43 - 🖉 ➡ K54	5	IP 02	2021-07-07 16:19:15	2021-07-07 16:19:36	0:0:21	Manual	۲	۲
- 🐼 🖦 K59 - 🐼 🖦 K64 - 🐼 📑 K67	6	IP02	2021-07-07 16:18:44	2021-07-07 16:19:25	0:0:41		۲	۲
- 🗹 🛤 K87 - 🗹 🛤 K91 - 🗹 🛤 K92	7	IP 02	2021-07-07 16:18:44	2021-07-07 16:19:06	0:0:22	Manual	۲	۲
- 🕼 🖦 K94 - 🐼 🖦 K96 - 🐼 🔜 NOVUS	8	IP02	2021-07-07 16:18:03	2021-07-07 16:18:24	0:0:21	Manual	۲	۲
Time: 2021-07-07 00:00:00	9	IP 02	2021-07-07 16:18:00	2021-07-07 16:18:42	0:0:42		۲	۲
1 Time: 2021-07-07 23:59:59 🕑	□ 10	IP02	2021-07-07 16:17:25	2021-07-07 16:17:46	0:0:21	Manual	۲	۲

③ Click [Search]. The searched record data will be listed. Click 🕑 to play the record; click 💽 to back up the record data.

### 7.2.6 Playback by Tag

#### Note: The tag cannot be added to the record from the HDD of the NVR.

- (1) Go to Home  $\rightarrow$  Record Playback interface.
- 2 Select a channel and put the cursor on the right center. Then a tag icon ( ) will appear. Click this icon to add tag.
- $\bigcirc$  Go to Home  $\rightarrow$  By Tag interface. Select the start time and click [Refresh] to search the added tags.
- ④ Click 🕑 in the playback column to play the record.



# 7.3 Record Backup

In the main menu interface, click "Record Backup" to go to the backup interface. The recorded files stored on the DVR/NVR/storage server can be exported to the USB storage device of the Mini NVMS Server. The setting steps are as follows:

- ① Insert a USB flash drive into the USB port of the Mini NVMS Server.
- 2 Select the desired monitoring point.
- ③ Select date and click "More" to select the start and the end time and event type.
- (4) Click Level to get records from device or storage server.
- (5) Set the start time and the end time of backup. Then click [Backup].
- 6 The backup progress will be seen during backing up the record. Click 💷 to pause; click 💷 to stop backing up the record; click 🔟 to clear the backup list.

By Time Slice By Event By Ta	g	Re	ecoro	l Bacl	kup	Se	arch	Picture		
Monitoring Point				Ja	an 2	021		►	C 00:00:00 00 00 02;00 04;00 06;00 08;00 10;00 12;00 14;00 16;0	0 18:00 20:00 22:00 00:00
Search Q	M	on	Tue	Wed	Thu	Fri	Sat	Sun	Channell	
<ul> <li>□</li></ul>	2	8	29		31	1	2	3		
Device Name_IP Cam	4	1	5	6	7	8	9	10		
<ul> <li>Device Name_IP Cam</li> <li>Device Name IP01</li> </ul>	1	1	12	13	14	15	16	17		
	1	8	19	20	21	22	23	24		
- IP Camera01	2	5		27	28	29	30	31		
– 🔲 🛋 IP Camera – 🔲 🛋 IP Camera	1	L	2	3	4	5	6	7	Main Stream Start Time 2021-01-26 00:00:00 🔿 End Time 202	21-01-26 00:00:01
— 🔲 🛋 IPC				Ν	<b>Nore</b>	~			Record Backup Backup on Dev	
- 🔲 🔜 IPC	t Tir	me				End	Time		Duration Progress Operation	on Backup Path
	26 (	00:0	00:00		2021	L-01-2	26 00	:00:01	0:0:1 100% Open File Pe	osition D:\\Device_Name_IP
	26 (	00:0	00:00		2021	L-01-2	26 00	:00:03	0:0:3 100% Open File Pe	osition D:\\Device_Name_IP
	26 (	00:0	00:00		2021	L-01-2	26 00	:00:05	0:0:5 60%	D:\\Device_Name_IP
Search										► II ■ 🕅
Search	<									

"Backup on device": This function is applied to the added NVR devices. Search the record from the HDD of the NVR in this interface and then insert a USB storage device into the USB port of the NVR and then click this button. Then the recorded files of the NVR will be backed up to the USB storage device remotely.

## 7.4 Search Picture

In this interface, pictures stored on the SD card or storage server can be searched and viewed. **Note**: the searched pictures are the snapshots triggered by alarm events (like motion, sensor, smart event, etc.).



- 1 Select the device.
- 2 Set the start time and the end time.
- 3 Choose events.
- (4) Click [Search]

# 8 Alarm Management

## 8.1 Alarm Server Configuration

Alarm server is in charge of receiving and recording alarm information of connected devices and then sending the alarm information to the relevant user terminal system or devices in accordance with prior alarm settings. There is a default alarm server.

Go to Home  $\rightarrow$  Add, Edit or Delete Device  $\rightarrow$  Alarm Server interface to view the online status of the alarm server. If it is not online, please check its network connection.

Add, Edit or Delete Device	Device	Setting Area	Setting Chai	nnel Group S	Setting			
Device Type	^	Server Name	IP Address	Port	Client Connection Status	Authentication Server Connection Status	Edit	
Encoding Device (Online/Total Decoder (Online/Total number		Alarm Server	10.20.52.7	6033	Online	Online		
LED Display Device (Online/Tot	al numl							
Intelligent Analysis Server (Onli								
Storage Server (Online/Total nu								
Media Transfer Server (Online/								
Access Server (Online/Total nur								
Alarm Server (Online/Total nun								
TV Wall Server (Online/Total nu	umber:1							

# 8.2 Alarm Configuration

1) Go to Home $\rightarrow$ Device Setting interface.

Add, Edit or Delete Device	Device Setting	Area Setting C	hannel Group Setti	ng					
Encoding Device	OSD Setting	Image Setting	Stream Setting	Motion Detection	Motion Alarm Linkage	Line Crossing	Intrusion	Object Removal	EI
Search         Q           □         Default area           □         2MP A3FR-107           □         □	IPC	e Crossing	2019/06/19	6 : 12 : 02					
	Alert Line 1	✓ Direction A->E	Alarm Hold	ing Time 3 🗸					
	Start Draw	Clear	Apply						

Select the desired device to enable alarms (refer to the user manual of the corresponding device for the detailed settings).

#### ② Go to Home→Alarm Center→Alarm Linkage interface.

Alarm Log Search Alar	m Linkage Settings	Schedule Se	tting	Manual	Alarm Out	SOP	Setting Al	arm	Task Settings	Ema	il Settings		
Area	Alarm Type Mor	itoring Point-Li	ne Cro	ssing Dete	tion	I	All ON	Al	OFF Res	et	Apply	Filter	(
Search C ■ default area	Nai	ne	A	udio 🗸	PTZ Cont	rol 🗸	' Record	$\sim$	Alarm preview	$\sim$	Snapshot 🗸	Alarm Output	Voice Broadcast
	*Device Name_IF	Camera01 🗸	ON		ON		ON		ON		ON	ON	ON
	Device Name_IP	Camera02 🗸	OFF		OFF		OFF		OFF		OFF	OFF	OFF

Select area, alarm type and then enable alarm linkages.

All ON: enable all alarm linkages of the current alarm type and area (schedule excluded).

All OFF: disable all alarm linkages of the current alarm type and area (schedule excluded).

Select 🗡 beside the device name and select "ON" to enable all alarm linkages of the device (schedule excluded).

1(11)_IPC134424	14	$\sim$	ON	ON	ON	ON	ON	ON	ON	OFF
1(31)_name	ON		OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF
1(48)_name	OF	F	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF

Select  $\checkmark$  beside the title (like record) to enable record linkage of all devices (schedule excluded). Select "Link to itself (On)" to quickly select the camera itself as the record camera.

Name		Audio	$\sim$	PTZ Control	$\sim$	Record	$\sim$	Alarm preview	$\sim$	Snapshot	$\sim$	Alarm Output	$\sim$	Voice Broadcast
*Device Name_IP Camera01	$\sim$	ON	$\sim$	ON	Link	c to itself (Or	n)	ON		ON		ON		ON
Device Name_IP Camera02	$\sim$	OFF		OFF		to itself (Of	ff)	OFF		OFF		OFF		OFF
Device Name IP01	$\checkmark$	OFF		OFF		e Choice		OFF		OFF		OFF		OFF

The alarm linkage settings of PTZ control, record, alarm view, snapshot, alarm output and TV Wall are the same with each other. Here take record linkage for example to introduce the setting steps.



Check the selectable channel and click 🚺 to select the channel; check the selected channel and click 🚺 to remove this channel; click

by to select all channels; click storemove all selected channel.

After the channels are selected, check "On" and then click "OK" to save the settings.

Note: Before checking voice broadcast, please upload the voice first (See chapter 19.7 for details).

Before checking Email, please set the sender's email address and the recipient address first (See chapter 10.5 for details). Before checking SOP, please set the SOP first (See chapter 10.3 for details)

③ Set alarm schedule. Select the schedule of the desired device. 7\*24 or 5\*24 is the default schedule. Other schedules need to be set in advance. Click the "Schedule Setting" tab to set (See Schedule Recording  $\rightarrow$  To set schedule for details).

## 8.3 SOP Settings

Click the "SOP Setting" tab in the alarm center interface to go to the following interface as shown below.

- 1. Click "+" to add a SOP name.
- 2. Click "Create" to create a SOP action.
- 3. Click <sup>99+</sup> to extend the alarm list.

4. Click 🔟 to handle the alarm. Select the SOP action and then click "Save Process". After that, choose disposition and enter remark as needed.

The disposition includes: False alarm, true alarm, customer test, technical event, service test.

SOP SOP1 I Make Edit Delete I Make Edit Delete I Make Edit Delete I Make Sop Action Input less than or equal to 64 ch. SOP Action Input less than or equal to 64 ch. SOP Action Input less than or equal to 64 ch. I Make Alarm Vye Montoring Point-Motion Detection Operation Action Handling Status Handling Time I Make Alarm Vye Motion Detection Save process Save process Save process Save process Save from the Same Alarm Vye Motion Characters Alarm Time Alarm Source Alarm V Other Intelligent Alarm V Sensor Alar 2021-02-03 2021:13 MZ-25FE-40(R) Monitoring Po 2021-02-03 2021:26 IP Camera Monitoring Po	Alarm Log Search	Alarm Linkage	Settings	Schedule S	Setting Man	ual Alarm Out So	OP Setting	Alarm Task Settings Email Setti	ngs		
Alarm Time Alarm Torre   0 Device Alarm Q Alarm Torre   Alarm Time Monitoring Po   2021-02-03 202:101 IP Camera0   Monitoring Po C   2021-02-03 202:102 IP Camera0   Monitoring Po C		i د ^2	Create		_			Handle Aları	n SOP	×	_
Index Operation Action Handling Status Handling Time   SOP Action Input less than or equal to 64 ch I xxx I   Image: Sop Action Imput less than or equal to 64 ch Imput less than or equal to 100 characters Imput less than or equal to 100 characters   Imput less than or equal to 100 characters Imput less than or equal to 100 characters Imput less than or equal to 100 characters   Atarm Time Atarm Source Atarm Type Storage Playback   2021-02-03 2021:37 IP Camera Monitoring Po   Imput less than or equal to 100 characters Imput less than or equal to 100 characters   2021-02-03 2021:37 IP Camera   MZ-25IPE-4(IR) Minitoring Po   Imput less than or equal to 100 characters Imput less than or equal to 100 characters   Imput less than or equal to 100 characters Imput less than or equal to 100 characters   Imput less than or equal to 100 characters Imput less than or equal to 100 characters   Imput less than or equal to 100 characters Imput less than or equal to 100 characters   Imput less than or equal to 100 characters Imput less than or equal to 100 characters   Imput less than or equal to 100 characters Imput less than or equal to 100 characters   Imput less than or equal to 100 characters Imput less than or equal to 100 characters   Imput less than or equal to 100 characters Imput less than or equal to 100 characters   Imput less than or equal to 100 characters Imput less than or equal to 100 characters   Imput less than				1		1	Alarm Sourc Alarm Type:	ce: IP Camera01 Monitoring Point-Motion Detection	I		
SOP Action Input less than or equal to 64 ch   OK Cancel   OK Cancel   Disposition False Alarm   Ok Cancel   Disposition False Alarm   Disposition False Alarm   Ok Cancel   Disposition False Alarm   Ok Cancel   Disposition False Alarm   Ok Cancel   Disposition False Alarm   Input less than or equal to 100 characters   Remark   Color   Alarm Time   Alarm Source   Alarm Type   Storage Playback   2021-02-03 20:21:41   IP Camera02   Monitoring Po   Color   2021-02-03 20:21:37   IP Camera   Monitoring Po				Creat	e SOP Action		Index	Operation Action	Handling Status	Handling Time	
Image: Save process   Save process <td></td> <td></td> <td>SOP Actio</td> <td>n Input I</td> <td>ess than or equ</td> <td>al to 64 ch</td> <td>1</td> <td>XXX</td> <td></td> <td></td> <td></td>			SOP Actio	n Input I	ess than or equ	al to 64 ch	1	XXX			
Import less than or equal to 100 characters   Import less than or equal to 100 characters </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>OK Cancel</td> <td></td> <td></td> <td></td> <td></td> <td></td>						OK Cancel					
Import less than or equal to 100 characters   Import less than or equal to 100 characters   Remark   Import less than or equal to 100 characters   Remark   Import less than or equal to 100 characters   Remark   Import less than or equal to 100 characters   Remark   Import less than or equal to 100 characters   Remark   Import less than or equal to 100 characters   Remark   Import less than or equal to 100 characters   Remark   Import less than or equal to 100 characters   Import less than or equal to 100 characters   Remark   Import less than or equal to 100 characters   Remark   Import less than or equal to 100 characters   Import less than or equal to 100 characters   Remark   Import less than or equal to 100 characters   Remark   Import less than or equal to 100 characters   Import les										Save process	
Alarm Time Alarm Source   Alarm Time Alarm Source   Alarm Time Alarm Source   Alarm Time Alarm Time   Storage Playback     2021-02-03 20:21:41   IP Camera0   Monitoring Po     2021-02-03 20:21:43   MZ-25IPE-4(IR)   Monitoring Po     IP Camera0     Monitoring Po     Image: Comparison of the Camera							Disposition	False Alarm			
Alarm Time     Alarm Source     Alarm Type     Storage Playback       2021-02-03 20:21:41     IP Camera02     Monitoring Po     4       2021-02-03 20:21:37     IP Camera     Monitoring Po     2       2021-02-03 20:21:13     MZ-25IPE-4(IR)     Monitoring Po     2       2021-02-03 20:21:06     IP Camera     Monitoring Po     2								nput less than or equal to 100 chara	cters		
Alarm Time     Alarm Source     Alarm Type     Storage Playback     Handling Statu       2021-02-03 20:21:41     IP Camera02     Monitoring Po     4       2021-02-03 20:21:37     IP Camera     Monitoring Po     2       2021-02-03 20:21:13     MZ-25IPE-4(IR)     Monitoring Po     2       2021-02-03 20:21:06     IP Camera     Monitoring Po     2	🖉 Device Alarm 🛛 N	Notion Detection	Face Ala	rm <i> O</i> t	her intelligent A	larm 🗹 Sensor Ala					ms:1000+ 😣
2021-02-03 20:21:37         IP Camera         Monitoring Po         Image: Comparison of the comparison	Alarm Time	Alar	rm Source		Alarm Type	Storage Playback				Save	Handling State
2021-02-03 20:21:13         MZ-25IPE-4(IR)         Monitoring Po         Image: Comparison of Compariso	2021-02-03 20:21:41	IP (	Camera02	N	Monitoring Po				4	$\bigcirc$	
2021-02-03 20:21:06 IP Camera Monitoring Po	2021-02-03 20:21:37	IP	Camera	N	Monitoring Po						
	2021-02-03 20:21:13	MZ-	25IPE-4(IR)	Ν	Monitoring Po						
	2021-02-03 20:21:06	IP	Camera	N	Monitoring Po						
	<		_	_							

After the alarm is processed, the alarm handling status and disposition will be shown as below.

Device Alarm	Motion Detection 🛛 Face Alarm 🖉	Other Intelligent Alarm 🛛 Sensor Alar	m 🖉 Offline Alarm	Server Alarm 🛛	Alarm Task 🔵 SO	P Filter			Unhand	lled:7 ⊗
Alarm Time	Alarm Source	Alarm Type 🗸 🗸	Storage Playback	Device Playback	Storage Snapshot	Device Capture	Alarm Processing	Handling Status	Disposition	Rema
)21-07-09 10:11:41	IP Camera01	Monitoring Point-Face Detection								
)21-07-09 10:11:36	IP Camera01	Monitoring Point-Motion Detection						Processed	False Alarm	
)21-07-09 10:11:02	IP02	Monitoring Point-Exception Detection								- 1
)21-07-08 17:45:03	К59	Monitoring Point-Motion Detection								
<										

## **8.4 Alarm Task Settings**

In this interface, you can set the leaving alarm task.

Leaving alarm: When someone leaves the predefined area and doesn't come back within the set time duration, the system will perform alarm linkages.

To set a leaving alarm task:

1. Enter the Alarm Task Setting interface.

2. Click [Add] to add the alarm task.

Set the task name, interval time, schedule and choose the camera.

Multiple cameras can be added to an alarm task.

ld Delete						Search		
Task name	Channel Number	Channel	Schedule	Interval time(min)		Alarm Type	Edit	Delete
		Add alarm	task		×	task-Leave working position		Ū
Task na	me							
Interval time(n								
	lule 7*24				~			
Alarm T	ype Alarm task-Leave	working pos	ition		~			
Selectal	ole Device	î	Sele	cted Device				
🔺 🗌 default area								
Device N	lame_IP Camera01							
Device N	lame_IP Camera02							
Device N	lame_IP01							
Device N	lame_IPC							
🗌 IP Came	ra	>						
IP Came	ra	~						
IP Came	ra01	~						
		>						
Search	Q Select All Reve	erse Clear All		OK Ca	ancel			

3. Set the alarm linkage items. In the alarm linkage settings interface, select the alarm type as "Alarm task-Leaving Alarm". Then enable the desired alarm linkage (like "Alarm preview") and set the schedule.

Alarm Log Search Alarm I	Linkage Sett	tings Schedule	Setting Manual Alar	m Out SOP Setting	Alarm Task Settings	Email Settings				
Area	🔨 Alar	m Type Alarm tasl	k-Leaving Alarm		✓ All ON	All OFF R	eset App	bly	Filter	
Search Gefault area	Q	<ul> <li>Alarm preview</li> </ul>	w 🗸 Snapshot 🗸	Alarm Output 🗸 🗸	Voice Broadcast 🗸	Open Door 🗸	TV Wall 🗸	′ Trigger Email 🗸	sop 🗸	′Schedule 🗸
		ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	7*24

4. Go to the Device Setting interface to enable Intrusion and set the detected area.

Add, Edit or Delete Device	Devic	e Setting Area	Setting Channe	el Group Setting					
Encoding Device	^	OSD Setting	Image Setting	Stream Setting	Motion Detection	Motion Alarm Linkage	Line Crossing Detection	Intrusion	Exception Detection
Search □-	Q	IP Canona 1 → Ca		26/ 02/2021	Save P Save T Detection ∅ Mα @ Mu @ No	tor Vehi Sensitivity Detection	n 🔹	50 50 50	-

#### Note:

- 1. The selected camera must support and enable intrusion function, or leaving alarm will not take effect. If the camera supports vehicle/people classification, please check "Human" as the detection target.
- 2. After the leaving alarm task is set and intrusion is enabled for the camera, when someone enters the predefined area and stays there,

this person will be judged as "On Duty" so that leaving alarm will not be triggered and the intrusion alarm will not be displayed on the alarm list; but when this person leaves and doesn't return within the set time duration (interval time) or no one appears in the set time duration, leaving alarm will be triggered.

Alarm Lo	og Search A	larm Linkage Settings	Schedule S	etting Mai	ngs Email Setting				
Add	Delete					S	earch		
Ď	Task name	Channel Number	Channel	Schedule	Interval time(min)	Alarm Type	Edit	Delete	
	1	0		7*24	10	Alarm task-Leaving Alarm		Ū	

## 8.5 Email Settings

Alarm information can be received by the specified Email address if the Email parameters have been set in advance.

Click Home→Alarm Center→Email Setting to go to the following interface. Add the sender and recipient's email information here.

Alarm Log Sea	rch Alarm L	inkage Settir	ngs Schedule	Setting N	/lanual Alarm Out	SOP Setting	Alarm Task Settings	Email Settings
Sender's Name	XXX		Email Address	xxx@163.cc	om			
SMTP Server	163.smtp.com	n	SMTP Port	25	Default			
Security	No	$\sim$						
Username	xxx@163.com	n 🗸	Password	•••••				
				Appl	y Test			
Add								
Recipient Er	nail Address	Edit	Delete					
XXXX XX	x@163.com		Ī					

In the sender's Email information area, fill out the corresponding information and then click "Apply" to save the settings.

Clicking on the [Add] button adds the recipient information.

After that, in the alarm linkage setting interface, you can trigger Email.

Alarm Log Search Alar	rm Linkage	Settin	igs	Schedule S	ettin	g Manual Ala	arm	Out SOP Set	ttir	ng Alarm Task Set	tin	gs Email Setting							
Area	^	Alarm	Тур	Monitoring	) Poi	nt-Motion Detect	tion	$\sim$		All ON All	0	FF Reset		Apply			Filter		
Search default area	Q	trol	$\sim$	Record	$\sim$	Alarm preview	$\sim$	Snapshot N	~	Alarm Output	~	Voice Broadcast	$\sim$	TV Wall 🗸	Trigger Email 🗸	~	sop 🗸	Schedule	$\sim$
			C	DFF	0	FF		OFF		OFF		OFF		OFF	ON	0	FF	7*24	
			0	DFF	0	FF		OFF		OFF		OFF		OFF	OFF	0	FF	OFF	

## 8.6 Alarm View

Having set the alarm preview linkage, the alarm view window will prompt when an alarm is triggered.
Alarm Log Search Alarm Linkage	Settings Sc	hedule Setting	Manual Alarm Out	SOP Setting	Alarm Task Settings	Email Setting				
Area 🚶	Alarm Type Mo	onitoring Point-N	1otion Detection	× /	All ON All OFF	Reset Ap	oply			
earch Q default area	PTZ Control	✓ Record	✓ Alarm preview	✓ Snapshot	✓ Alarm Output	Voice Broadcas	st 🗸 TV Wall	✓ Trigger Email	✓ SOP	✓ Schedule
	OFF	OFF	ON 2	OFF	OFF	OFF	OFF	ON	OFF 7	7*24
[*Device Name_IP Camera01] /	Alarm previewLi	nkage Setting		× OFF	OFF	OFF	OFF	OFF	OFF	OFF
Selectable Device	<b>4</b>	Selected D	evice	OFF	OFF	OFF	OFF	OFF	OFF	OFF
4 🔲 default area			rea	OFF	OFF	OFF	OFF	OFF	OFF	OFF
<sup>3</sup> vevice Name	<	Device	e Name	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Device Name				OFF	OFF	OFF	OFF	OFF	OFF	OFF
Device Name	<b>→</b>			ON	ON	ON	ON	ON	ON	7*24
IP Camera				OFF	OFF	OFF	OFF	OFF	OFF	OFF
IP Camera	>>			OFF	OFF	OFF	OFF	OFF	OFF	OFF
IP Camera01	*			OFF	OFF	OFF	OFF	OFF	OFF	OFF
5 IP Camera02	<b>~</b>	6								
Search Q Select A	All Reverse	Clear All	OK Cancel							

In the alarm preview interface, you can select multi-screen display mode by right clicking on the preview window as shown below.



Click on the bottom right corner to expand the alarm list as shown above. Hover the cursor on the top of the alarm list and then a bidirectional arrow will appear. Drag the alarm list up or down to extend or shrink the alarm list.



Click  $\bigcirc$  or  $\bowtie$  to play the record or captured images.

If the camera has configured the alarm preview linkage based on the specified event, right clicking on the alarm item displays a menu as shown below. Click "Alarm Preview" to jump to the alarm preview interface.

Device Alarm Detection	Grace Alarm Grace Other Intellige	nt Al	arm 🛛 Sensor Alarm	🛛 🖉 Offline Alarm 🗏	🗹 Server Alarm 🛛 Ala	arm Task 🔘 SO	P Filter
Alarm Source	Alarm Type	~	Storage Playback	Device Playback	Storage Snapshot	Device Capture	Alarr
K11	Monitoring Point-Motion Detection	on					
M	Monitoring Point-Face Compariso	on			Alarm Preview		
К11	Encoder Offline Alarm				с-мар		
MP	Monitoring Point-Face Compariso	on					
<							

## 8.7 Alarm Log

All Types ^	Start Time	2021-01-27 00:00:00	End Time 2021-01-27 23:59:59	Search Ex	port					
	No.	Alarm Time	Alarm Source	Alarm Type 🗸	Details	Storage Playback	Device Playback	Storage Snapshot	Device Capture	Alar
	1	2021-01-27 11:46:17	IP Camera01	Monitoring P				~		
	2	2021-01-27 11:46:17	Device Name_IP Camera01	Monitoring P			$\triangleright$		~	
	3	2021-01-27 11:46:14	IP Camera01	Monitoring P				~		
	4	2021-01-27 11:46:14	Device Name_IP Camera01	Monitoring P			$\triangleright$		~	
	5	2021-01-27 11:46:09	IP Camera01	Monitoring P				~		
	6	2021-01-27 11:46:09	Device Name_IP Camera01	Monitoring P			$\triangleright$		~	
	7	2021-01-27 11:46:02	IP Camera	Monitoring P						
	8	2021-01-27 11:46:01	IP Camera01	Monitoring P				~		
	9	2021-01-27 11:46:01	Device Name_IP Camera01	Monitoring P			$\triangleright$		$\sim$	
	10	2021-01-27 11:46:01	IP Camera02	Monitoring P						
	11	2021-01-27 11:45:53	IP Camera01	Monitoring P				~		
	12	2021-01-27 11:45:53	Device Name_IP Camera01	Monitoring P			$\triangleright$		~	
	13	2021-01-27 11:45:47	IP Camera01	Monitoring P				~		
Server 👻	14	2021-01-27 11:45:46	Device Name_IP Camera01	Monitoring P					~	
Device ~	15	2021-01-27 11:45:46	Device Name_IP Camera01	Monitoring P			►		~	



Click to play the record; click is to open the snapshot search window as shown below.

Check the searched image and then click "Export" at the bottom of the interface to export this picture to the USB storage device.

## 8.8 Manual Alarm Out

Click "Manual Alarm Out" tab to go to the following interface.

Alarm Log Search Alarm Linkage	e Settings Schedule Setting	Manual Alarm Out	SOP Setting	Alarm Task Settings	Email Setting
Alarm Output ^					
<ul> <li>□ ☐ default area</li> <li>□ ☐ 1</li> <li>□ ☑ Ď Device Name_AlarmO</li> <li>□ ☑ Device Name_AlarmO</li> <li>□ ☑ Device Name_AlarmO</li> <li>□ ☑ Device Name_AlarmO</li> </ul>	Alarm Holding Time Trigger Alarm Out	5 V Close Alarm Out			

Select the camera, set the alarm holding time and then click [Trigger Alarm Out] to manually trigger the alarm out of the camera; click [Close Alarm Out] to manually turn off the alarm out of the camera.

# 9 E-Map

The e-map service is used to store the e-map information of the system. The client landing anywhere can share the same e-map.

## 9.1 E-Map Settings

## 9.1.1 Create E-Map

Go to Home→E-Map Setting interface. Click [Create Map] to create a map.



Enter E-map name, select parent e-map and map type. Then click [OK] to save the settings.

## 9.1.2 Add Hotspot

The hotspots include monitoring points and sensors. Drag a hotspot to the corresponding area on the map as shown below.

E-Map Setting	
Map Management 🛛 🗸 🗸	Create Map Modify Map Delete Map
Monitoring Point	
<ul> <li>■</li></ul>	Device Name IP Camera().

Click [Modify Map] to change map name and parent map. Select [Delete Map] to delete the added map.

# 9.2 E-Map Monitoring

Go to Home→E-Map Monitoring interface. Select a window on the right and then double click the monitoring point to view the real-time image.



Switch to Alarm E-Map: if "Yes" is selected, the system will automatically switch to the E-map on which the alarm occurs.

Auto Alarm View: if you select "Yes", the monitoring video will automatically pop up on the right window when an alarm is triggered. Put the cursor on the preview window (right panel) and then a toolbar will display. Clicking on  $\bigcirc$  closes the preview. Click "Close All Stream" to stop all videos. The preview window will be overlaid on the map by clicking "Overlap".

In addition, click [Filter Alarm Type] to filter the alarm type.

If multiple cameras need to play, you can drag the window on the right panel to the right. Then an independent monitoring interface will display. You can choose the screen display mode as needed.

Map Management		×
Search Q B- & 1 • Map		
Switch to Alarm E-Map® Yes O No Auto Alarm ViewO Yes ® No Ø IPC Ø Smart IPC Sensor		
Pending alarm: 500	1 -4 -9 -16 Sub Stream V X	Overlap

## 10 TV Wall

## 10.1 Add TV Wall Server

Go to Home  $\rightarrow$  Add, Edit or Delete Device  $\rightarrow$  TV Wall Server interface as shown below. There is a default TV wall server. Please check whether it is online.

Add, Edit or Delete Device Device	e Setting	Area Setting C	Channel Group S	etting					
Device Type	Add	Delete				Search			Q
Encoding Device (Online/Total numbe Decoder (Online/Total number:1/1)		Server Name	IP Address	Port	Client Connection Status	Authentication Server Connection Status	Edit	Delete	
LED Display Device (Online/Total numl Intelligent Analysis Server (Online/Tota		TV wall	10.20.52.7	6036	Online	Online			
Storage Server (Online/Total number:1 Media Transfer Server (Online/Total nu									
Access Server (Online/Total number:1/									
Alarm Server (Online/Total number:1/: TV Wall Server (Online/Total number:1									

An adding TV Wall window will be prompted by clicking [Add]. Click [Refresh] to quickly add the TV wall server in the same local network, or add the TV wall server by manually entering server name, IP address and port.

## 10.2 Add Decoder

Decoder is used to decode the video signal transmitted by the transfer server. The decoding output is a standard video signal. The decoder is necessary for decoding videos on the TV wall.

Go to Home  $\rightarrow$  Add, Edit or Delete Device  $\rightarrow$  Decoder interface.

Add, Edit or Delete Devi	ce Device S	Setting A	rea Setting C	Channel Group Setting	9						
Device Type	^ (	Add D	elete						Search		
Encoding Device (Online/T	otal numbe									_	
Decoder (Online/Total nun	nber:0/0)		Device Name	Output Number	IP Address	Port	Online Status	Open in the B	rowser	Edit	Delete
Alarm Host (Online/Total r	umber:0/0)				Add De	coder				×	
Access Control System (On	line/Total n										
LED Display Device (Online	/Total numl	Quickly /	Add Manuall	y Add			[	Device Quantity:0	Refre	sh	
Intelligent Analysis Server	Online/Tota		Device Name	IP Address	Port	Subne	et Mask Versio	on Device ID			
Storage Server (Online/Tot	al number:1		D office Humb	Il y ladi cos		Gabrie					
Media Transfer Server (On	ine/Total nu										
Access Server (Online/Tota	l number:1/										

The setting steps of adding decoders are the same as adding encoding device setup (see Add Encoding Device for details).

### Create and Connect Decoder

The decoder which needs to be connected to the platform must be the master decoder and in platform mode. Login the web client of the decoder as shown below.

Go to Basic Settings  $\rightarrow$  System Settings to check the user permission and running mode of the decoder and make sure its user permission is master and its running mode is platform. Then apply the settings and restart the decoder.

Basic Settings		
Running Mode	PlatForm	$\checkmark$
User Permission	Master	$\checkmark$
Device Name	Decoder	
МАС	00:18:AE:00:45:D1	
Soft Version	2.1.0.12	
Version Date	20181214	
Kernel Version	I9F6-I9F6-I9F6	
		Apply

The decoder will not be online until it is bound to a TV wall. Please create a TV wall first and then bind the decoder to the TV wall. See chapter 12.3.1 for details.

## **10.3 TV Wall Management**

Go to Home $\rightarrow$ TV Wall Management $\rightarrow$  TV Wall Setting.

TV Wall	Setting	TV Wall View	TV Wall Task Settings	TV Wall System Setting
TV Wall		^		
TV wall	wall 1(1)	+		
Decode	r Output	^		
Deco Outpu Outpu	it1	C C		

### 10.3.1 TV Wall Settings

### Create TV Wall

Go to Home $\rightarrow$ TV Wall Management $\rightarrow$ Edit TV Wall. Select a TV wall server and then click +to create a TV wall.



### Initializing

- 1 Double click the created TV wall to prompt a TV wall window.
- 2 Click "Initialize" to create TV wall layout.



### ♦ Merging\Splitting

Merging: drag on the screen and then release. The "Merge" button will be shown. Click it to merger these small windows.



TV wall 1 💌								
Initialize Save								

Splitting: select the merged window and click "Split" to restore the window to the previous status.

TV wall 1 💌		TV wall 1 💌					
Initialize Split Jave		Initialize Save					
	$\Box$						

The online decoder displayed in the decoder output list is the binding decoder of this TV wall. Drag the outputs to windows on the right in sequence and then click "Save" to save the settings.

▲ TVWall Server Unit +	Initialize Save			
🔳 TV224(1) 🛛 🔀 📋				1
■ TV225(2) 🗹 🗎				
🔳 Create TV 🕑 📋	Output1	Output2		
	Output3	Output4		
Decoder Output 🔷				
4 💼 172.16.50.224				
✓ Output1 🖾				
✓ Output2				
a 🗂 172.16.50.225				
Output1 🖻				
Output2				
Output3 🛛				
✓ Output4 🛛				

#### • Decoder Binding

Go to Home  $\rightarrow$  TV Wall Management  $\rightarrow$  TV Wall System Setting interface as shown below. In this interface, decoder bind can be set up. Decoder bind configuration: modify the binding state between decoder and TV wall.

TV Wall Setting	TV Wall View	TV Wall Task Set	tings TV	Wall System Setting	g		
Channel Numbe	er Setting Decode	r Bind Configurat	ion TV W	/all Backup			
Device Name	Output Number	IP Address	Port	Online Status	Select TV Wall	Open in the Browser	Edit
Decoder 1	2	10.100.40.49	8888	Online	TV wall 1		
				Sele	Change Bou ect TV Wall TV wa		

Click Click

Channel Number     Decoder Bind Configuration     TV Wall Backup       Device Name     Output Number     IP Address     Port     Online Status     Select TV Wall     Open in the Browser     Edit       Decoder 1     2     10.100.40.49     8888     Online     TV wall 1     Image: Control of the status	TV Wall Setting	TV Wall	View	TV Wall Task Sett	tings TV	Wall System Settin	g		
	Channel Number Setting Decoder Bind Configuration TV Wall Backup								
Decoder 1 2 10.100.40.49 8888 Online TV wall 1	Device Name	Output N	lumber	IP Address	Port	Online Status	Select TV Wall	Open in the Browser	Edit
	Decoder 1	2		10.100.40.49	8888	Online	TV wall 1		

Return to the decoder management interface as shown above. The online status of the decoder indicates that the decoder is successfully bound with TV wall. Go to TV Wall Setting interface as shown below. Drag the outputs of the decoder to the window on the right and save them to complete output bind.

TV Wall Setting	TV Wall View	TV Wall Tas	k Settings TV W	all System Setting	
TV Wall	^	TV wall 1	×		
TV wall	+	Initialize	Save		
🗰 TV wall 1(1)					
			Output1	Output2	
			Decoder 1	Decoder 1	
Decoder Output					
Decoder 1	ß				
✓ Output2	Ľ				

### 10.3.2 TV Wall View

### ♦ Create Plan

Go to Home  $\rightarrow$  TV Wall Management  $\rightarrow$  TV Wall View  $\rightarrow$  TV Wall Plan.

Click + beside the TV wall name to create the TV wall plan name.

TV Wall Setting TV Wall	View TV Wall Task Se	ettings TV Wall System Setting
Monitoring Point	Preview 🗸	
Channel Group	~	
Decoder Input	~	
TV Wall Plan	^	
<ul> <li>TV wall 1 (1)</li> <li>1_Pan_1(1)</li> </ul>		Create Plan ×
1_Plan_2(2)	Plan	Name 1_Plan_3
		a No. 3 Edit ID OK Cancel

### ♦ Configure Plan

Double click the plan name to show the plan.

Drag the monitoring points to the corresponding window respectively to decode image.

Monitoring Point Preview ^	* 1_Plan_1 ×			
Search Q Control Control Con	IP Camera01	¥0 2	₩ 3	50 4
	5	50 6	7	80
<ul> <li>■ IP Camera</li> <li>■ IPC</li> <li>■ IPC</li> <li>■ MZ-25IPE-4(IR)</li> </ul>	5a 9	10	11	80 < 12
	5 13	59 14	5 15	ឆ្ល 16
	<ul> <li>1 4 9 16 25 36 Enable PIP</li> </ul>	Auto-Sw Hide ID Save	vitch Group Save as Renumber	
Channel Group	<b>00:00:00</b> 00 00 02:00 04:00	06:00 08:00 10:00 12:	:00 14:00 16:00 18:00	20;00 22;00 02-05 00;00 0
Decoder Input				
TV Wall Plan				

### ♦ Toolbar Menu

1 -4 -9 -16 -25 -36	Enable PIP	Hide ID	Save	Save as	Renumber

1. Screen mode: 1/4/9/16/25/36 screen mode is optional.

2. Open Window: Click [Enable PIP] and then drag on a window to open a small window on it. Click [Disable PIP] to stop opening window. The small window can be dragged to anywhere on the big window.

- 3. Click [Hide ID] to hide the window number; click [Display ID] to display the window number.
- 4. Click [Save] to save the current plan.
- 5. Click [Save as] to save it as another plan.
- 6. Renumber: Click it to renumber the window of the plan from left to right and top to bottom.
- 7. Select a window assigned a monitoring point and then press the right mouse and drag to another window to copy monitoring point to
- it.
- 8. Double click a window to play the video.

### Right-click Menu



1. Screen mode:  $1 \langle 4 \rangle$  16  $\langle 25 \rangle$  36 screen mode is optional.

2. Zoom in\out: if the current screen mode is multi-screen display mode, click "Zoom In" to zoom in the current image. Click "Zoom

Out" menu again to restore to the previous status.

3. Save as Alarm Window: click it to save the current window as an alarm window. The alarm linkage image will be displayed in this window. Go to Home  $\rightarrow$  Alarm Center  $\rightarrow$  Alarm Linkage (or Home  $\rightarrow$  Alarm System  $\rightarrow$  Alarm Linkage) interface. Select TV wall linkage item to set alarm linkage.

			View	✓ Snapsh	iot 🗸	Alarm Out	out 🗸	Voice Broa	$\langle$	TV Wall
			TV W	/allLinkage S	etting					×
			S	electable Ch	annel			Selected Cha	annel	TV Wa
			4	) default are	а	(	<del>کر</del>	l 🗌 default are	a	
				E3-7411	11			243CH		Create T\
				IP Came	ra					
				🗌 qiuji88						
Г										
	Alarm Center						»			
S	Alarm Log Search Ala	rm Linkage Settings					~			
- <b>-</b>	Schedule Setting   Mar	nual Alarm Out								
	SOP Setting   Alarm Ta	sk Settings				<b>&gt;</b>	<			>
	Email Settings			N Q	Select A	II Reverse	Clear			Cancel

4. Set as Playback Window: when decoding images, click this menu to play the records of the current channel (the record source is the

current record source).

5. PTZ Control: click this menu to prompt a PTZ control panel of the current decoding window. Direction control, zooming and focusing, Iris control, speed, preset, track and cruise calling can be operated through this control panel.

- 6. Stop Decoding: click it to stop decoding the current image.
- 7. View Decoder: view the information of the decoder.
- 8. Clear TV Wall: click it to clear the decoding configuration of the current output.

#### • Screen Merging or Splitting

Drag the mouse to select multi-window and then click [Merge] to merge these windows.



Select the merged window and click [Split] to restore the window to its previous status.

* 1_Plan_2 🗷	* 1_Plan_2 🛛	
ទី១	5	25
	1	5
	20	2
	6	7
Ī	5	5-
	3	8
		10
⊥	9	
		Auto-Sv
1 4 9 16 25 36 Split Enable PIP Hide ID Save S	1 4 9 15 25 36 Enable PIP H	ide ID Save Save as

#### ♦ Auto-Switch Group

- 1. Create Auto-Switch Group
- ① Click Auto-Switch Group under the screen and then click + to create auto-switch group.

	₩
×	
1 -49162536- Enable PIP	
	1 -49162536- Enable PIP

2 Select "Auto-Switch Window" to select the window group.



③ Click "Monitoring Point" to select the auto-switch channel group.



- ④ Enter auto-switch name and dwell time.
- 2. Execute auto-switch



Click to execute auto-switch. The specified channel images will be played in the specified windows in sequence. Click to stop playing the current auto-switch.

#### 3. Modify or delete auto-switch

Right click the auto-switch name and then select Modify or Delete to modify or delete the auto-switch.



Note: If there are overlapped auto-switch window in a plan, the auto-switch groups will not be executed at the same time.

- ♦ Auto-switch plan
- 1. Create auto-switch plan

Click 🔨 behind the TV wall plan name to set the auto-switch. Click "Join in" to select the plan. Then set dwell time and click [OK].

Channel Group	×				
Decoder Input	~		Auto-Switch	Setting	×
TV Wall Plan	^	No.	Plan Name	Move Up	Operation
📠 TV Wall 1 (1)	+ )	1	1_Pan_3 (3)	÷	Join in
🔠 1_Pan_3(3)		3	1_Plan_1 (1)	+	Join in
1_Plan_1(1)		2	1_Plan_2 (2)	+	Join in
1_Plan_2(2)					
🔜 TV Wall 2 (2)	+ > 🗢				
릂 TV Wall 3 (3)	$+ \bullet \bullet$				
From	2019-10-08 00:00:00	Dwell Interval(s)	10 🗸		Save Canc

### 2. Start/stop auto-switch

4 📠 TV225 (2)	+ • •
<b>¥</b> Y225	Start Auto-Switch

Click 🕨 behind the TV wall name to start auto-switch plan. Click the Stop button to stop the auto-switch.

- 3. Modify auto-switch plan
- Click 😢 again to modify the auto-switch plan.

Note: If the current auto-switch plan needs to modify, please stop it first.

## 10.3.3 Decoder Input

Go to Home→TV Wall Management→Decoding on TV Wall→Decoder Input. Drag an input to a window to execute decoding.



### 10.3.4 Playback

#### • Playback on TV Wall

Click "Preview" on the left panel. Then this button becomes "Record". Click 🚺 at the bottom of the left panel to extend the filtering

condition. Click Line to get records from device or storage server, check the alarm events and then drag the cameras (or channels) to a window to search and play the records.



Of course, the specified time and event types can be set to search the specified records.

#### Playing control



During playback, the record can be controlled by the above buttons.

#### Right-click menu

* 1_Plan_1 🖂		
₩ 49.82 400_49.82 400	Screen Mode	5
	Set as Alarm Window	
	Set as Preview Window	Recent Channel
	Stop Decoding View Decoder Output Info.	Historical Channel
	Clear TV Wall	

- 1. Screen mode:  $1 \langle 4 \rangle 9 \langle 16 \rangle 25 \langle 36 \rangle$  screen mode is optional
- 2. Zoom in
- 3. Save as an alarm window
- 4. Save as preview window: the current channel or the historical channel is optional.
- 5. Playback stream type: main stream or sub stream is selectable.
- 6. Stop decoding
- 7. View decoder information
- 8. Clear TV wall

The following picture is an example of TV Wall.



### 10.3.5 Task Setting of TV Wall

Go to Home  $\rightarrow$  TV Wall Management  $\rightarrow$  Task Setting. Click + behind the TV wall name.

Select plan name, enter task name, set run time and enable plan task.



Click lie to start the task. Click the Stop button to stop this task.



#### Modify or delete task

Double click the TV wall name and then the tasks will be displayed on the right window.



Click or to modify or delete the task.

## 10.3.6 TV Wall System Configuration

Go to Home  $\rightarrow$  TV Wall Management  $\rightarrow$  TV Wall System Setting interface as shown below. In this interface, the channel number can be set up.

### > Channel Number Settings

Channel number configuration: set the channel number and make the channel convenient to be controlled by the network keyboard controller. Users can export these channel number in this interface.

TV Wall Setting TV Wall View		ask Settings TV Wall System Setting		
Channel Number Setting Decod	No.	nfiguration TV Wall Backup Name	Channel Number	Conflicts Between Channels' Number
Search Q	1	group>1	1	1 2
■   default area (Online/Total n	2	group>1-1	2	1
	3	default area>IP Camera01	1	IP Camera01
	4	default area>IP Camera07	17	
	5	default area>IP Camera	19	
	6	default area>IP Camera02	5	
	7	default area>IPC	3	
	8	default area>IPC default area>Device Name_IP Camera01	4	
	9 10	default area>Device Name_IP Camera01 default area>Device Name IP Camera02	2	
	10	default area>Device Name_IP01	8	
	12	default area>Device Name_IPC	9	
	13	default area>MZ-25IPE-4(IR)	6	
	Minimum	Conflict-Free Channel Number: 10	Export Channel Number Save Canc	el

#### > TV Wall Backup

When importing the former system configuration files to the new version, the TV wall configuration file will not be imported together. So you need to import the TV wall configuration file separately.

Click [Backup TV Wall] in the last version to back up the TV wall configuration files. Then click [Restore TV wall] in the new version to restore it.

Channel Number Setting Decoder Bind Configuration TV Wall Backup
Backup TV wall Restore TV wall
Caution: It will take several minutes to restore system configuration. Do not shut down the computer during restoring. The authentication server will restart automatically after restoration.

# **11** Temperature Measurement

## 11.1 Add Temperature Reading Devices

This platform supports thermal network camera and temperature measurement panel access.

1. Click Home  $\rightarrow$  Resource Management  $\rightarrow$  Add, Edit or Delete Device  $\rightarrow$  Encoding Device to go to the encoding device interface. Click [Add] to add the temperature reading devices.

2. Click Home $\rightarrow$ Resource Management $\rightarrow$ Device Setting to go to the device setting interface. Select the temperature reading device and then click the "Thermal imaging settings" tab to enable temperature measurement function.

- 3. Set the temperature unit, high temperature threshold and low temperature threshold.
- 4. Click [Apply] to save the settings.

Add, Edit or Delete Device	Device Setting Area Setting Channel Group Setting
Encoding Device	OSD Setting Image Setting Stream Setting Exception Detection Face Detection Thermal imaging settings Wear Mask
Search	
□- 🍙 default area	Temperature unit CV
🕮 📾 Device Name 🖭 📾 IP Camera	Iigh temperature abnormal alarm
	High temperature abnormal threshold 37.2 The temperature setting range is(0~99)°C
IP Camera02	Low temperature abnormal alarm     Low temperature abnormal threshold 35.5
⊞~ 🞰 IP Camera07 ⊡- 💼 IPC	
IPC	Apply
⊡ - 💼 IPC ⊡- 💼 MZ-25IPE-4(IR)	

## **11.2 Temperature Screening**

## 11.2.1 Configuration

- 1. Click Home→Temperature Measurement→Live Preview→ 🔹 to go to the following interface.
- 2. Set the temperature measurement parameters as needed.

		Configuration	×	
Temperature	Jnit	°C 🗸 🗸	₩	1
		'he device will be rebooted after you change it.	0	[
Abnormal Ten	nperature Threshold		mal Record	1
Record Va	lidity	3 ala	mai kecord 🕨	
Low Temperat				
Hypothermia		36.8 (0°C~36.8°C)		
Pop up Auton	natically			
		🖉 Automatically pop up the abnormal temperature alarm processing box 🔲 Pop up non-mask alarm box		
Data Display			•, , •	
Hide Norm			· Ma	
Data Reset Sett	ings:		No Data	
Reset Type:	Close	V		
Start Time	2022-01-07 17:39:5	9		
	2022-01-07 17.59.5			
Reset				
Data Sources o	f Temperature Readin	g Tablet		
Comparisor	n Data	O Detection Data		
Voice Prompts			ot Statistics in Recent 7 Days	
Temperature	Abnormality Reminde	11111		
Non-Mask Vo	ice Prompt	22222		
		Apply	·····	
		Арруу	1-9 1-10 1-11 1-12 1-13 1-14	

#### Temperature Unit: two options: °C or °F.

Abnormal temperature threshold: please set the value according to the actual condition. When the temperature detected is over than the set value, alarms will be triggered.

**Record validity**: Set how long the platform will keep the temperature records. If it is enabled, the temperature records will be cleared beyond the set days.

Low Temperature Detection: please set the value according to the actual condition. When the temperature detected is lower than the set value, alarms will be triggered.

**Pop-up automatically**: if enabled, the abnormal temperature alarm processing box will pop up automatically. Additionally, you can enable "Pop up non-mask alarm box" as needed.

**Data Display**: you can choose "Do not display normal data". That is to say, if the temperature of the person scanned is normal and the mask is detected, these data will not be displayed on the client.

#### **Data Reset Settings:**

a. Reset time and type: please reset time of the temperature data as needed. These data can be reset every day, every week or every month.

b. You can reset the statistics by clicking [Reset].

**Data sources of Temperature Reading Tablet:** including comparison data and detection data. If comparison data is selected, the platform will receive the temperature reading result and face comparison result; if detection data is selected, the platform will receive the temperature reading result and face detection result, but it is not sure whether the person is matched with that of the face database

**Voice Prompt:** Please set the abnormal temperature voice prompt and non-mask voice prompt as needed. When no mask or elevated/low temperature is detected, the set voice prompt will be heard.

### 11.2.2 Live Preview

Drag the thermal cameras/temperature measurement and face recognition terminals to the preview window. In this interface, you can view various statistical information, such as total pass-by(today/total), Over-temperature(today/total), mask off (today/total), etc.



No.	Descriptions
1	Camera list, including temperature measurement terminal/panel and thermal network camera.
2	Preview Area; drag the camera to the preview window to play.
3	Statistical display area, including such as total pass-by counts(today/total), Over-temperature counts (today/total), mask off counts (today/total)
4	Pass-through records (snapshot display area)
5	Abnormal record display area, including mask off, over temp
6	Snapshot statistics in recent 7 days

Putting the cursor on the snapshot picture appears a "+" icon. Click this icon to add this picture to the group of the face database.

			А	dd to Group				×
36.7°C	Person List ^ Search Q Default Group	<b>J</b> €	A Name: Gender: Province: Work type: ID Type: ID NO: Remark:	IPC Male ID Card	device bound to the tar	Birthday: Country: City: Work ID: Telephone:	2021-02-04	
Mask On	VIP List ~ Visitor List ~ BlackList ~						ОКС	ancel

The thermal image and visible light image will be displayed simultaneously if the thermal camera is dragged to the preview area. Right click on the thermal camera window and then select the fourth stream to view the thermal image as shown below.





### > Alarm Handling

Click the captured image on area (5) to pop up an alarm handling box as shown below. You can edit the personal information, including

name, phone number, ID number, address, whether to go to the infected area, etc. Click "+" on the top right corner of the snapshot image to add it to the group of the face database.

	Alarm F	landling	×
	Ĩ.		
Snapshot Camera	IP Camera	Snapshot Time	2022-01-14 17:58:52
Temperature	36.6°C	Suspected fever	Suspected Low Tem
Mask Status	Mask On	Infected Area	$\sim$
Status	$\checkmark$	Name	
Phone Number		ID Number	
Address			
Remark			
Pop up Automatica	ally 🔵	Previous	Next Save

Pop up automatically: if enabled, the alarm handling box will automatically pop up on detecting an abnormal event (over temp/low temp/mask off).

#### Full Screen Display

In the temperature measurement interface, click it to enter temperature warning system interface.

Live Preview Search Statistics						1
Monitoring Point ^ Search Q	794	8 775	0	837	<ul><li>775</li></ul>	<b>X</b> 4



Click  $\smile$  to exit the full screen mode.

## 11.2.3 Records Search

Select the camera and then set the filter condition (like the start and end time, temperature range, keywords, etc.) to search the records.

Monitoring Point											Export
earch Q	No.	Suspected fever	Snapshot Camera	Time	Target Picture	Original Picture	Temperature	Mask Status	Status	Alarm Handling	Record Playb
C E2MP (Online/Total numb     C IT19 (Online/Total numbe     A RTSP (Online/Total numb	1	Suspected Low Te	IP Camera	2022-01-14 17:58		2	36.7°C	Mask On	Unproces		
<ul> <li>default area (Online/Total</li> <li>onvif (Online/Total numb</li> <li>nline/Total nu</li> <li>onvine/Total numbe</li> </ul>	2	Suspected Low Te	IP Camera	2022-01-14 17:58		8	36.7°C	Mask On	Unproces		
Image: Contine / Total number       Image: Contine / Total number	3	Suspected Low Te	IP Camera	2022-01-14 17:58		2	36.6°C	Mask On	Unproces		
	4	Suspected Over T	IP Camera	2022-01-14 17:54		8	36.9°C	Mask On	Unproces		
Start Time 2022-01-14 00:00:00	5	Suspected Over T	IP Camera	2022-01-14 17:54		10	36.9°C	Mask On	Unproces		
nd Time 2022-01-14 23:59:59 🗘 ange All V 🐻 Aask Status All V	6	Suspected Over T	IP Camera	2022-01-14 17:54	1		36.9°C	Mask On	Unproces		
tatus All Status V nfected Area All V	7	Suspected Over T	IP Camera	2022-01-14 17:54			36.9°C	Mask On	Unproces		
ecognition Success All 🗸	< (				-	- M.					~ ,

In the above interface, you can view the target picture and the original picture, body temperature, mask status, alarm handling status, etc.

## 11.2.4 Statistics

In the statistics interface, you can view the total pass-through counts, abnormal temperature counts and mask off counts.



Click it to switch between date and date range.

Choose the camera and then set the start time and end time. Click "Search" to view the statistics.

You can view the statistics via a line chart or bar graph. The statistical data can be exported by clicking "Export".

# **12 Target Counting**

## 12.1 Task Management

1. Enable "Target Counting" function of the IPC.

Note: the added camera must enable target counting function.

### IPC with Target Counting function

Add, Edit or Delete Device	Device Setting Area	Setting Channel Grou	p Setting			
Encoding Device	n Intrusion	Exception Detection	Privacy Mask Setting	ROI Setting	Target Counting	Preset Setting
Search  Search  Gefault area  Gefault area	☑ Motor Veh ☑ Human S		et Cutout	•	50	

2. Go to Home→Target Counting interface. Clicking on enters the following interface. Double click the camera with the target counting function and then select "ON". After that, click [Apply] to save the settings.

Monitoring Point ^ Search Q			Task Management			×	Autorefresh inter
Search Q ■	Monitoring Point         Search       Q         ■       default area (Online/Total number         ■       Device Name_IP Camera         ■       Device Name_IP Camera         ■       Device Name_IP Camera         ■       Device Name_IP Camera01         ■       Device Name_IPC         ■       IP Camera01         ■       IPC         ■       IPC         ■       IPC         ■       MZ-25IPE-4(IR)	No. 1	IP Channel Name IP Camera01	One-key reset	Enabled V	Event Type	
		Voice alarm	alert please wait			Apply	

## **12.2 Real-time Statistics**

Go to Home  $\rightarrow$  Target Counting  $\rightarrow$  Real-time Statistics. Double click the camera with the target counting function to view the live image. The camera will automatically count the number of people/motor vehicle/non-motor vehicle crossing the predefined line and the system will automatically analyze the traffic flow trends.

Before view the statistics, please go to Home  $\rightarrow$  Resource Management  $\rightarrow$  Device Setting  $\rightarrow$  Target Counting interface to set the alert line, entrance/exit, detection target, etc.



Please select the type as needed to view the flow trend. Click C to refresh the current statistics.

Set the auto refresh interval: The system will automatically refresh the statistics at regular intervals.

<b>46138</b>	-		58537	7	-	-12399	)	
Total NO.(IN)/Human	Compared to yes	sterday	Total Exiting/Human		Compared to yesterda	y Inside	Inside	
atistics of Total Tr	affic Flow					ĒR 🔽	հր	
60000					ĵ			
50000								
					1			
40000								
40000								

In the above interface, you can view the statistics of people/vehicles entering or exiting. Scroll down to view the traffic flow statistics via pie charts and tables.

Location name	Туре	00:00~01:00	01:00~02:00	02:00~03:00	03:00~04:00	04:00~05:00	05:00~06:00	06:00~07:00	9
IP Camera02	Out	2	0	1	0	1	12	27	
IP Camer	era02 Enter	0	0	0	0	0	0	0	
IP Camera	Out	0	0	0	0	0	0	0	
ID C	Enter	0	0	0	0	0	0	0	
IP Camera	Out	0	0	0	0	0	0	0	
MZ-25IPE-4(IR)	Enter	0	0	0	0	0	0	0	
	Out	0	0	0	0	0	0	0	
Total	Enter	0	1	0	0	0	18	8	
Total	Out	2	0	1	0	1	12	27	
A	Enter	0	0	0	0	0	3	1	
Average	Out	0	0	0	0	0	2	5	
		<						>	
oportion of	people/ve	hicle flow(	(Human)						

Statistical name	Entry number	Proportion of people/vehicle entering	Exiting number	Proportion
IP Camera01	1018	98.36%	0	
IP Camera02	17	1.64%	220	
IP Camera07	0	0.00%	0	
IP Camera	0	0.00%	0	

## 12.3 Heat Map

Go to Home  $\rightarrow$  Target Counting  $\rightarrow$  Heat Map interface.

Please create a map first.

Real-time	E-Map Setting	× 🌣
Map Ma Map Management	Create Map	×
Search Map Management	Map Name 1 Parent Map V Map Type O Google Map ® Picture Map	·····································
Monitoring Point IPC Sensor	* *	
E-Map Setting		

Drag the camera with the target counting function to the specified area.

Put the cursor on the camera icon and then you will see the detailed flow statistics.



The deeper the red color is, the more targets (human/vehicle) gather there.

## **12.4 Historical Statistics**

Go to Home  $\rightarrow$  Target Counting  $\rightarrow$  Historical Statistics. In this interface, the statistic results in a long period of time can be searched which can be shown in the table or curve chart. Additionally, the statistics of different targets can be viewed here.



## **12.5 Flow Control**

Flow Control: Control the people/vehicles entering or exiting in a specified area to avoid overcrowding. When the people/vehicles stay in

the specified area exceeds the threshold, the alarm will be triggered and no entry icon will display.

Click Home  $\rightarrow$  Target Counting  $\rightarrow$  Flow Control to enter the following interface.

Click **I** to add a task. Multiple tasks can be added as needed.

Real-time Statistics	Heat Map	Historical Statistics	Flow Control	Historical F	Picture Query				
Task list							Add ta	sk	×
_					Task name	Task 01			
					Maximum threshold				
					Туре	Human			~
		((+))			Schedule	7*24			~
					Selectable	Device		Selected Device	
					🔺 🔲 default area		G	🗕 🗌 default area	
L					🗌 IP Camera		<	IP Camera01	
					Camera02	2			
任务02					IP Camera0	7			
	Availa	able			MZ-25IPE-4	(IR)			
	0						>>		
	Inside	e					~		
	17	0					_		
L					<		>	<	<b>—</b> >
					Search C	Content All Reve	erse Clear A		Cancel

Then the available number and inside number can be viewed as below.



Click to view the quantities of the people/vehicles entry and exiting.

Click to enter the flow control preview interface.



In the above interface, you can switch the camera and view the image. When the people/vehicles inside exceed the threshold, the icon will turn red.

Click on  $\stackrel{[]{}}{\vdash}$  exits the current page.

## **12.6 Search Historical Picture**

Go to Home→Target Counting→Search Historical Picture interface. The historical snapshots of each camera can be searched.

Note: Only the snapshots of the IPC with target counting function can be searched here.

The snapshots of the IPC without target counting function can be searched in the search interface (Home $\rightarrow$ Face Surveillance $\rightarrow$ Search). Check the IPC with target counting function, set the start and end time, target and then click [Search].



Click to view the snapshot details as shown below.



# 13 Visitor Management

The visitors can be managed effectively by using this system.

## 13.1 Add Access Control Device

You can add the face recognition & access control device to manage visitors.

Click Home  $\rightarrow$  Resource Management  $\rightarrow$  Add, Edit or Delete Device  $\rightarrow$  Encoding Device to add face recognition & access control devices. **Note**: Access control device includes face recognition box, face recognition and access control panel, face recognition IPC, Face recognition NVR, among which face recognition box, face recognition IPC and face recognition NVR can view the access records of the visitors.

## 13.2 Apply for a Visit

There are two ways to apply for a visit.

1. Go to the visitor list interface (Home  $\rightarrow$  Group Management  $\rightarrow$  People Management  $\rightarrow$  Visitor List) to add the visitor.

Fill out the information of the visitor and then select the visitee as needed.

Person List VIP List	Visitor List BlackList	
Visitor List	Add Target	X Import Export Select current Page Reversely select
Search Default Group	Basic Certificate No. 1 Name 4 Gender O Male © Female Phone No.	Select visitor × Search Q Default Group 4 Ay Search Calling: Calling:
	Effective time 2021-02-04 16:50:55 $\bigcirc$ - 2021-02-04 18:00:00 $\bigcirc$ Timeout reminder Visitee J $\checkmark$ Access Point Select $\checkmark$ Remarks	Work ID: Group: Default Group OK Cancel
		OK Cancel

Select the access point.

Add Target	Add ad	ccess co	ontrol device	×
Basic Certificate	Select access control device			
	Selectable Device		Selected Device	
No. 1	🔺 🔲 default area		🔺 🔲 default area	
Name 4	Device Name	>	IP Camera01	
Gender O Male	IP Camera02	<		
Phone No. 123455666	□ IPC			
Effective time 2021-02-04 17:00:11 🔷 - 2021-02-04 18:00:0	MZ-25IPE-4(IR)			
Timeout reminder				
Visitee J				
Access Point Select				
Remarks		>>		
		~		
	<	>	<	<b>&gt;</b>
	Search Q Select All Revers	e Clear	АШОК	Cancel

- 2. Add the visitor information by real-time face snapshot
- a. Add a visitor from the alarm pop-up window in the face surveillance interface

Real-time Monitoring	Image Search	by Face Search C	onfiguration						
Monitoring Point	▲ Pase	s-bv(Todav): 8118	Abnorma	al Temp: 4923	Mask Off: 0 Add to Grou	Face Match(To	dav) <sup>,</sup> 1472	BlackList: 3	
Search					Add to Grou	þ			
B - ▲ Alarm Source: Device	Verified te Name_IP Camer	Person List	~	Basic Cert	ificate				
		VIP List Visitor List	~	No.					
		Search Default Group	Q	Name Gender	33 Male O Female				
Person I	List:77%			Phone No.		- 2021-02-04 18:00:00			
Name 33					Timeout reminder	- 2021-02-04 18:00:00			
Birthday									
ID Type ID (	Card			Visitee	Select	~			
ID No.				Access Point	Select	~			
Work ID									
Remark				Remarks					
	Fac								
	Fd	BlackList	~					OK Cancel	

b. Add a visitor from the snapshot in the face surveillance interface

Mini Server User Manual

Real-time Monitoring Image Sea	arch by Face Se	arch Configuration					
Monitoring Point	Pass-by(Today): 84	153 Abnormal T	emp: 5201	Mask Off: 0	Face Ma <mark>tch</mark> (Today): 14	198 BlackList:	3 Stra
Search Q	IP Camer			A	dd to Group		
B=       A default area (Online/Total number         Image: Control of the state of the stat		Person List VIP List Visitor List Search C C Default Group	~ Q	Name: Gender: Province: Work type: ID Type: ID NO: Remark:	33         Male         ✓         ID Card         ✓         ✓         ✓         The default is the device bound to	Country: [ City: [ Work ID: [ Telephone: [	2021-02-04 😓
	Face Capture	VIP List Visitor List BlackList	•				OK Cancel

c. Add a visitor from the snapshot in the search snapshot interface (Home  $\rightarrow$  Face Surveillance  $\rightarrow$  Search  $\rightarrow$  Search Snapshot)

Real-time Monitoring Image Searc	ch by Face Search	Configuration		
Near Sine Comparison         Search Snapshot       Search Comparison         Search       Q         Search       Device Name_IP Cam         Search       Device Name_IPC         Search       IP Camera01         Search       IP Camera02         Search       IP Camera07         Search       IPC Camera07	son Result		nera01 / IP Camera02 / IP Camera07 / IP Camera / IPC / IPC 20; Add to Group	Time Pe 2021-02-03 00:00:00 - 2021-02-03 23:59:59
Intelligent Server           Start Time           2021-02-03           00:00:00           End Time           2021-02-03           2:59:59				OK Cancel
		BlackList 🗸 🗸		OK Cancel

## 13.3 Search and Export Visitor Record

Set the start and end time and then click [Search] to search the visitor record.

You can also enter the key words and click *Q* to search the visitor record.

Click [Export] to export the visitor record to an Excel file.

Mini Server User Manual

People Manag	gement Sync Rec	ords Visitor Record Tas	k									
Timeout: 0	Start time 2	021-02-04 00:00:00 🔨 End	d time 2021-02	-04 23:59:59 文 Search					Q	Search	Export	
Number	Operation	Whether access is allowed	✓ Visit status	✓ Access Control Device ✓	Visitee	ID Photo	Face Capture	Original Picture	Name	Gender 🗸	Nation	
1	Finish Edit	Allow Access	Visiting	Add success	J				4	Male		20

After the access control device is linked to the visitor, the access control device will report the matched information to the platform when the visitor came. Please refer to the following picture.

People Management Sync Records	Visitor Record Task						
Person List VIP List Visitor List	BlackList						
Visitor List ^ Search Q Default Group	Delete Add Clear All Targets	Failure record	Custom Export to	emplate Import	Export Select cur Track List View	rrent Page Reverse	elv select 📑 🗮 Search 🗙
	Name: 4	Gender: Ma	No.	Name	Time	Monitoring Point	Picture
	ID Type: Unknown Remark:	Birthday: 02 ID NO:	1	4	2021-02-04 17:23:23	IPC	
	Group: Default Group	E 🗶 (	2	4	2021-02-04 17:23:23	IPC	

## **13.4 Exception Handling**

## 13.4.1 Extending Visit Time or Modify Access Point

There are two ways to handle the exception.

1. Go to People Management  $\rightarrow$  Visit list interface as shown below.

People Management Sync Records	Visitor Record Task	
Person List VIP List Visitor List	BlackList	
Visitor List ^ Search Q	Delete Add Clear All Targets Failure record Custom Export Access time will expired at 2021-02-04 18:00:00	
Default Group	Name: 4 Ge Number Operatic Gender Male	
	ID Type: Unknown ID 1 Finish ID Card No.	
	Group: Default Group     Group: Content of the	
	Visitee's Phone	
	Expired Time 2021-02-04 18:00:00 💭	
	Expired Time after Extension     2021-02-04 18:00:00     Image: Timeout reminder     No extension       Access Point     IPC;     V	
	Remarks	
	Ok	
People Management Sync Records	Visitor Record Task	
--	--	--------------
Person List VIP List Visitor List	BlackList	
Visitor List	Delete Add Clear All Targets Failure record Custom Export template Import Export Apply Reset E 🔡	Search Q
Search Q	Deter Au Creat Air Fairgers Fairline record Custom Export rempiate Import Export Pupping Reset Lites	
Default Group	Edit Namo Didhday	Operation Re
Access time		E 2 Ū
Na	Name 4	
Ger	iender Male Finish Allow Access Visiting Add success	
ID Card		
Visitor's Ph	Phone	
Responde	idents J	
Visitee's Ph	Phone	
Expired Time 2021-02-0	2-04 18:00:00 🗘	
Expired Time after Extension 2021-02-0	2-04 18:00:00 🦳 🕅 Timeout reminder No extension 🗸	
Access Point IPC;		
Remarks		
	◀◀ The 1 /1Page → > Per Page 50 ∨ Entry 1-1 Total: 1	

2. Go to People Management  $\rightarrow$  Visitor Record interface as shown below.

People Man	agement Sync R	tecords Visitor Record Task			]
Timeout:	: 0 Start time	2021-02-04 00:00:00 🔶 End tin	e 2021-02-04 23:59:59 🛕 Search Q	Search	Export
Number	Operation	Whether access is allowed $\smallsetminus$	Access time will expired at 2021-02-04 18:00:00 × victure Name	Gender 🗸	Nation
1	Finish	Allow Access	Name         4           Gender         Male	Male	20
			ID Card No. Visitor' s Phone		
			Respondents J		
			Expired Time 2021-02-04 18:00:00 💟		
			Access Point IPC;		
			Remarks		
			Ok		

For valid record, you can edit the visit time period and access point.

Please set the expired time or extend the visit time period as needed.

## 13.4.2 Not Visiting/Leaving Beyond the Given Time

When someone's visiting is about to exceed the given time or the pre-registered visitor doesn't come within the given time, a prompt window will appear to remind the operator to extend the visit time or take other actions.

Access time will expired at 2021-02-05 08:56:00	×
Name   Gender   Male   ID Card No.   Visitor' s Phone   Respondents   J   Visitee' s Phone   Expired Time   2021-02-05 08:56:00   Expired Time after Extension   2021-02-05 08:56:00   Timeout reminder   No extension   Access Point   IPC;   Remarks	
	Ok

If this prompt window is not handled, the visitor will be marked as "Timeout". Clicking on the [Timeout] button appears the relevant records



# 14 Parking Lot Management

# 14.1 Add ANPR Camera

Before using parking lot system, please add ANPR cameras first. The ANPR camera is use to capture the license plate of the vehicles entering or exiting the parking lot.

There are two ways to add ANPR camera.

1. Click Home  $\rightarrow$  Resource Management  $\rightarrow$  Add, Edit or Delete Device  $\rightarrow$  Encoding Device to enter the encoding device adding interface. Click [Add] to add your ANPR camera.

2. Add the ANPR camera to your NVR with license plate recognition function and then add this NVR to the platform.

# 14.2 Add LED Display Screen

Before using parking lot system, please add the LED Display Screen which is used to display the information of the vehicles entering or exiting the parking lot.

Click Home $\rightarrow$ Resource Management $\rightarrow$ Add, Edit or Delete Device $\rightarrow$ LED Display Device to go to the LED display device adding interface.

Add, Edit or Delete Device	Device S	Setting Area	Setting C	Channel Grou	p Setting					
Device Type	^ (	Add Dele	te						S	Search
Encoding Device (Online/Total	numbe		A	_				- 111		
Decoder (Online/Total number:	:1/1)		evice Name	Туре	IP Address	Port	Online Status	Edit	Delete	
LED Display Device (Online/Tota	al num <mark>l</mark>				م ا م		Device			×
Intelligent Analysis Server (Onlin	ne/Tota				Add	LED Displa	ay Device			^
Storage Server (Online/Total nu	umber:1	Device Na	Type	IP A	ddress	Port	Delete			
Media Transfer Server (Online/	Total nu									
Access Server (Online/Total nur	mber:1/	LED Display	485 Screen	0.	0.0.0	5000				
Alarm Server (Online/Total num	nber:1/1									
TV Wall Server (Online/Total nu	umber:1									

# 14.3 System Settings

## **14.3.1** Set Entrance and Exit

Go to Home $\rightarrow$ Parking Lot Management $\rightarrow$ System menu as shown below.



Vehicle Monitoring Vehicle Manag	gement Integrated Search System	n Settings				Main Park	Carport:500/500	
System Settings	Parking Lot + @ ^ Main Park Sub Park1 Sub Park2 Sub Park3 Sub Park4	Parking Lot Total Parking Number Remaining Parking Number Temporary Vehicle Charge Rul Entrance/Exit Setting Add Entrance Name Gateway1 Lane Name Lane Ty	Lane Man		R Camera Linked LE	D Screen Displ	lay Window	ڷ ٵ ۘ
		Lane1 Entran Lane2 Exit-No Cl Lane3 Entran Entrance Name Gateway2	narge Fixed and tempo cy Fixed car	orary cars 's				[Ē]
		Lane Name Lane Type Lane1 Entrance Lane2 Entrance Lane3 Entrance Barrier Gate Opening Duration	Fixed cars Fixed cars Fixed cars	Linked ANPR Camera	Linked LED Screen	Display Window		Apply

Click 🔹 to set the display contents of the LED display.

Click [Add] to add a new entrance.

In the above interface, you can set the total parking room, remaining parking room, entrance and lane, barrier gate opening duration, temporary vehicle charge rule and so on.

### Lane Management

- 1. Click [Lane management] to enter the lane management interface.
- 2. Click [Add] to add a new lane.

Parking lot	Parkin	Lane manageme	nt	×
Main Parking Lot	Total I	(Add) Delete		
	Remai Tempo Entrar	Lan 1 Lane2		
	Entr			Bind license plate capture machine ×
	La	Linked ANPR Camera Linked LED Screen Display window		ANPR Camera Linked ANPR Camera
	La	left window 🗹 ngi Unbound	ht window	Camera Linked LED Screen Display window
			Apply	ancel

- Select the lane and then enter the lane name and select the lane type. Lane type: set it as "Entrance" or "Exit-Charge" or "Exit-Free" as needed.
- 4. Set the automatic pass rule.

Linked vehicles: the vehicles adding to the allow list.

Temporary vehicles: the vehicles not adding to the vehicle database

The "Linked vehicles" is checked by default, these vehicles linked to the parking lot can automatically pass the parking lot without stop.

5. Bind the ANPR camera and the LED screen to the lane.

6. Select the window and then click [Apply]. Then the ANPR camera and the LED screen will be bound to this window as shown below.

Uncheck this window and then click [Apply] to unbind the ANPR camera and the LED screen with the window.

agement Integ	Lane management	×			Main	Park	$\checkmark$	Parking lot: 500/5
Parking lot	Add Delete Lane1 Lane2		lot					
	Lane Name Lane1 Lane Type Entrance	/	Lane management					
	Automatic Pass Rule 🖉 Linked vehicles 🖉 Temporary ve	hicles	Automatic Pass Rule ed and temporary cars	Linked ANPR Car IP01	mera	Linked LED Screen		isplay window left window
	Linked ANPR Camera IP01 Setup		ed and temporary cars		-		-	
	Linked LED Screen Setup Display window							
	bound IP01 Unbound	ancel						

Barrier Gate Opening Duration: For example, it is set to 15s. Then the barrier gate will be automatically closed after it is opened for 15s.

### 14.3.2 Set the Charge Rule for Temporary Vehicles

Charge rules include "Free", "Charge per each exiting", "Charge by parking time" and "Custom rules". Please set the charge rules as needed.

Vehicle Monitoring Vehicle Mana	gement	Integrated Search Sy	stem Settings				Main Park
System Settings	Search	Add Modify	Delete				
Entrance/Exit Setting Temporary Vehicle Charge Setting	No	Rule Name	Vehicle Type	Charge Type		Description	
Schedule Plan			🔪 Ten	porary Vehicle Chai	rge Rule	×	
		Rule Name(*)		Descript	ion		
		Vehicle Type	Small Car	✓ Charge 1	Гуре	Free 🗸	

After you set the charge rules, click one charge rule listed on the above interface and then the detailed information will be shown on the right panel.

Then you can select the temporary vehicle charge rule when you fill out the information of the parking lot.

### 14.3.3 Set Schedule

Please set the schedule for the linked and temporary vehicles. If the vehicle of the vehicle group wants to enter the parking lot in its non-scheduled period, it will be not allowed to enter. But vehicles can leave the parking lot anytime.

Vehicle Monitoring Vehicle Mana	gement Integrated Sea	ch System Settings				Main Park	$\sim$	Carport:500	0/500
System Settings			Schedule Setting						
Entrance/Exit Setting	Apply			_	Add	Delete			Q
Temporary Vehicle Charge Setting	Vehicle Group OFF								
Schedule Plan	vip vehicle 7*24				· · · ·	Schedule Name	Edit	Delete	
	Temporary Car 5*24					7*24			
						5*24			

If you don't want to use the default schedule, you can click the [Add] button to set other schedules as needed.

## **14.4 Vehicle Management**

In the vehicle management interface, you can add or delete the vehicle group and add vehicles to the vehicle group. There are two vehicle groups by default-allow list group and block list group. These two default groups cannot be deleted. You can add other allow list groups as needed.

## 14.4.1 Link Vehicles to the Parking Lot

### > Add a new vehicle group:

Vehicle Monitoring	Vehicle Management	Integrated Search Sy	/stem Settings	1	
Group vip vehicle Blacklist vehicle (Bl	Add	Delete Select Cu	rrent Page	Reversely Select	Emp
Didektist venicie (Di			Add Group		×
		Group Name Schedule Plan	OFF	~	
		White List		OK	

### > Add vehicles to the vehicle group



Vehicle Monitoring Vehicle Management Integ	grated Search System Settings		Main Park 🗸	Carport:500/500
Vip vehicle Blacklist vehicle (Black List)	Vehick Vehick Vehick Vehick Vehicle Vehicle Color(1) Phone(1) Start Time 2021-07-08 00:00:00 Description K	Empty     Import     Export     Vehicle     Search         Add Vehicle     ×         Parking Lot     Main Park     ×         Vehicle Type     Small Car         Vehicle Type     Small Car         Name(*)         End Time     2021-08-07 23-59-59         Cancel	License P Parking L Parking T Vehicle Ty Vehicle C Name Phone Start Tim	ate:       1223         ate:       1223         ot:       Main Park         ope:       Allow List         pe:       Small Car         olor:       white         c       xxxx         c       xxxx         c       xxxx         c       2021-07-08 00:00:00         c       2021-08-07 23:59:59         m:

After the vehicle information is added, click this vehicle and then its detailed information will be shown on the right. In this interface, you can renew your vehicle, including 1-month renewal, 3-month renewal, 6-month renewal and 12-month renewal.

Vehicle Monitoring	g Vehicle Mana	gement Integrate	ed Search System Setti	ngs			
Group Fixed vehicle	+ 🖬 🖒 🔺	Add Delete	Select Current Page	Reversely Select	Empty Import	Export Vehicle Type All	✓ Search
Blocklist vehicle (	Block List)		hicle Color:red vner's Name:Cindy vner Phone:13111111111	111			
		Remaining Tir	ne 30Days	白口道			

### Click b to move the vehicle to another group.

If there are so many vehicles added in the current parking lot, you can view the desired vehicle information by filtering license plate number, vehicle color and so on.

### > Import/Export Vehicles

You can add multiple vehicles in a batch. Click [Import] and then select "Export template" to export a template (Excel).

Vehicle Monitoring Vehicle Mana	gement Integrated Search System Set	tings	
Group 十 窗 ビ へ Fixed vehicle Blocklist vehicle (Block List)	Add     Delete     Select Current Page       1223     Vehicle Color:white       0wner's Name:xxx       Owner Phone:11111111	e Reversely Select Empty	Import Export Vehicle Type Excel Import Export Template
	Remaining Time 29Days	日に直	

	A	В	С	D	E	F	G	Н	I
1	Number plate	Parking lot	'ehicle Typ	Vehicle color	Owner's name	Owner's phone	Starting time	End Time	Description
2	A12345	Main parking lot	Small car	Color	Simon	1379820xxxx	2020-09-23 00:00:00	2021-09-23 23:59:59	Discription
3									
4									
5									

Fill out the vehicle information according to the template and then save it. Then go to the vehicle management interface, click "Excel import" to import the vehicle information file.

Check the vehicle you want to export and then click [Export] to export the vehicle information into the designated path.

### 14.4.2 Block List

There is only one blocklist and it is the default blocklist. The default blocklist cannot be deleted. You can add vehicles to the blocklist. The setting steps are the same as adding vehicles to the allow list.

# 14.5 Vehicle Monitoring

### 14.5.1 Temporary Vehicles

After configuring the ANPR camera binding, allocating the corresponding lanes of vehicle monitoring and adding vehicles to vehicle list, the captured vehicle picture and its detailed information will display on the following interface when the vehicle passes the ANPR camera beside the lane and its license plate number is captured and recognized accurately by ANPR cameras.



If the vehicle passing the lane is neither added to the linked vehicle list nor added to the block list and "Temporary Vehicle" in the automatic pass rule is not selected, this vehicle will not be allowed to pass automatically.

If the lane type is set as "Exit-Free", the temporary vehicle will be allowed to pass automatically; if the lane type is set as "Exit-Charge", the temporary vehicle will be allowed to pass after the owner pay the parking fee according to the set temporary vehicle charge rule.



Vehicle Monitoring	Vehicle Mana	agement Integrated Search	Curt	em Settings					Par
	venicie iviana	5	Syst					Lane	management ×
System Settings	^	Parking lot	^	Parking Lot		Main Parking	Lot		
Entrance/Exit Setting		Le Main Parking Lot		Total Parking Nur		500		Add Delete	
Temporary Vehicle Charge	e Setting			Remaining Parkin	0	54		Lane:	1
Schedule Plan				Temporary vehicle	e charge rule	1	$\sim$		
				Entrance/Exit Set	ting Add				
				Entrance Name	Entrance 1		Lane managen		
				Laws Manag	Lana Ta		-ti- D D-l-		
				Lane Name	Lane Ty	be Autom	atic Pass Rule	Lane Type Exit-Charge	~
				Lane1	Exit-Cha	rge Fi	xed cars	Automatic Pass Rule 🛛 Li	nked vehicles 🔲 Temporary vehicles
								Linked ANPR Camera	Camera02 Setup
								Linked LED Screen	Setup
								Display window	
								left window	right window
								bound IP Camera02	Unbound
									Apply Cancel

If the temporary vehicle charge rule is set as "None", the operator shall enter the amount of the parking fee and then open the barrier manually to let it go.

### 14.5.2 Linked Vehicles

When the vehicle added to allow list vehicle group enters or exits the parking lot, it will be considered as the vehicle whose parking fee has paid by month. For example, if the owner of the linked vehicle has paid 1month's parking fee, then the vehicle can enter/exit the parking lot automatically for one month.

At entrance, the parking time of the linked vehicle is within the period of validity and the linked vehicle enters in the effective schedule, it can be allowed to enter automatically. If the parking time of the linked vehicle is expired, it will be treated as a temporary vehicle. At exit, no matter whether to charge or not, the linked vehicle can pass through automatically.

### 14.5.3 Vehicles in the Blocklist

The vehicles added to balcklist are not allowed to pass, even if the license plate number is captured by the ANPR camera. **Note**: The vehicles have been linked to a parking lot can not be added to blocklist, and vice versa.

## 14.6 Search

### 14.6.1 Search Pass Information

In this interface, the information of the vehicles entering and exiting the parking lot can be searched. Set the filtering condition, such as the start and end time, license plate, vehicle type and lane.

Vehicle Monitoring Vehicle Mar	agement	Integrated Search	System Settings						M	lain Parking lot		Carport:500/500
Integrated Search  Pass Info Temporary Vehicle Charge Info Allow List Vehicle Payment Info Overdue Parking	Start Time Vehicle Typ Search	pe All V		2022-01-18 23:59:59 🗘								Pass Picture
Overage Farking	No.	Pass Time	License Plate	Passing Parking Lot	Entrance	Lane	Direction	Vehicle Type	Operator	Pass Type	Re	

Pass record: including vehicle information, entering/exiting time, parking lot, lane, pass type, etc. The pass record also can be modified as

needed. Choose the pass record and click [Modify] to modify it.

Additionally, the captured vehicle picture can be viewed on the right by clicking this record inforamtion. Click [Zoom in] to zoom in the picture; click [Download] to download the picture. At the same time, you can also play the record by clicking . For the exit record, you can see the stay time.

You can also export all searched pass record by clicking [Export].

## 14.6.2 Search Temporary Vehicle Charge Inforamtion

Go to Home  $\rightarrow$  Parking Lot Mangement  $\rightarrow$  Integrated Search  $\rightarrow$  Temporary Vehicle Charge Info interface. The charge information of the temporary vehicles can be searched here as shown below.

Vehicle Monitoring Vehicle Man	agement	Integrated Se	arch System Se	ettings					Main Parking lot V Carpo	ort:500/500	
Integrated Search	tegrated Search 🔨 Start Time 2022-01-18 00:00:00 🙄 End Time 2022-01-18 23:59:59 🙄 License Plate: Search										
Pass Info Temporary Vehicle Charge Info	No.	Operator	License Plate	Start Time	Out Time	Vehicle Type	Charge Type	Charge Amount	Temporary Vehicle Charge Rule	Parking Lot	Entrance
Allow List Vehicle Payment Info Overdue Parking											

## 14.6.3 Search Vehicle Payment Information

Go to Home  $\rightarrow$  Parking Lot Mangement  $\rightarrow$  Integrated Search  $\rightarrow$  Allow List Vehicle Payment Info interface. The charge information of the allowlist vehicle can be viewed as shown below.

Vehicle Monitoring Vehicle Man	agement	Main Parking lot	Carport:500/500							
Integrated Search	Start Time	2022-01-18 00:	00:00 😌 End Tir	me 2022-01-18 23:59:	59 😌 License Plate		Search			
Pass Info Temporary Vehicle Charge Info	No.	Operator	License Plate	Payment Time	Renewal Months	Renewal Time(Month)	Description			
Allow List Vehicle Payment Info										
Overdue Parking										

## 14.6.4 Search Overdue Parking

In this interface, you can check the information of the vehicles which stay in the parking lot longer than the predefined parking duration. Enable this function and then enter the parking duration and then click [Search] to display the detail information of overstaying vehicles, such as license plate number, entering time and duration.

Vehicle Monitoring Vehicle M	anagement	Integrated Search	System Settings				Main	✓ Carport:500/500	
Integrated Search	Enable	Parking Time Thre	eshold: 24	Hours(	1~1000) Chang	e			Search
Pass Info Temporary Vehicle Charge Info	No.	License Plate	Start Time	Parking Lot	Entrance	Lane	Vehicle Type	Duration of Stay	
Whitelist Vehicle Payment Info									
Overdue Parking									

# **15** Account and Permission

## **15.1 Create Account**

Go to Home  $\rightarrow$  Account and Permission.

Use	er Mai	nagement Perm	ssion Manag	ement						
Add	Add         Delete         Create Security Questions / Answers         Search									
		Account Name	Enabled	Select Permission Group	MAC Address	Bind MAC Address	Edit	Delete		
C		admin	ON	Super Administrator	00:00:00:00:00:00	OFF				

There is a default super admin user (the username is admin; the password is 123456). The super admin user cannot be deleted. If it is the first time for you to log in, please select the super admin user and then click "Create Security Questions/Answers" to set the questions and answers. It is very important to reset the password if you forget your password.

		Create Security Questions / Answers ×	
User Ma	nagement Permission Management Delete Create Security Questions / Answers	Question:	
	Account Name         Enabled         Select Permission Group         MAC           Create Security Questions / Answers         00:00:00	Question:    Answer:    Question:    Answer:	
	Password Enter Password OK Cancel	OK Cancel Skip	

Click [Add] to prompt an adding user window as shown below.

Binding MAC address or remark can be filled in as needed. After that, click [OK] to save. Click of modify common user's information.

For common users, the administer can set the schedule for them, so that they can only log in within the specified time.

Modify User	×
Enable 🕢	
User Name* 1	
Password* Enter Password	
Confirm Password* Enter Password	
At least 8 digits in length, including three or more of numbers/lowercase letters uppercase letters/symbols	4
Display Password	
Permission Group* 1	~
Schedule Not Enabled	~
Bind MAC Address 00 : 00 : 00 : 00 : 00 : 00	
Remark	
OK	

# **15.2 User Permission Settings**

Go to Home  $\rightarrow$  Account and Permission  $\rightarrow$  User Permission Group Setting.

① Click [Add] to create permission group.

User Manag	ement Permission Management		
Add De	lete		Search
		Add Permission	n Group ×
	Permission Group Name		
	System Permission Operation Per	nission Area Permission	TV Wall Permission Target Permission
	Select All Reverse Clear All		
	Resource Management	Server Management	Record Setting
	Alarm Management	🔲 E-Map	TV Wall Management
	Parking Lot Management	Local Configuration	Target Counting
	Face Surveillance	E Face Greeting	Face Attendance
	Temperature Measurement	People Management	
		Ж	Cancel

- 2 Enter permission group name.
- ③ Select system permission, operation permission, area permission and TV wall permission as needed.

# 16 Operation and Maintenance Management

## 16.1 Check and Export Log

Go to Home $\rightarrow$ Operation and Maintenance Management.

Click the "Check and Export Log" tab as shown below. All types of logs can be searched and exported here.

Check and	Export Log Backup a	and Restore Configuration	Real-time Status Status Log				
All Types	Alarm Log C	peration Log Config	Log Exception Log				
Start Time	2021-01-27 00:00:00	End Time 2021-01-27 23	3:59:59 🔶 Search Export				
No.	Main Type	Record Time	Node Name	Sub Type 🗸 🗸	User Name	User Address	Î
1	Alarm Log	2021-01-27 16:44:24	IP Camera02	Monitoring Point	None	None	
2	Alarm Log	2021-01-27 16:44:22	IP Camera01	Monitoring Point	None	None	
3	Alarm Log	2021-01-27 16:44:22	Device Name_IP Camera01	Monitoring Point	None	None	
4	Alarm Log	2021-01-27 16:44:05	IP Camera	Monitoring Point	None	None	
5	Alarm Log	2021-01-27 16:44:03	IP Camera01	Monitoring Point	None	None	
6	Alarm Log	2021-01-27 16:44:03	Device Name_IP Camera01	Monitoring Point	None	None	
7	Alarm Log	2021-01-27 16:44:00	IP Camera02	Monitoring Point	None	None	
<							>
			<b>●●</b>	The 1 /233Page	Per Page 5	0 💙 Entry 1-50 Total: 116	36
_							

Select the log type, set the start time and the end time and then click [Search] to search logs. After the logs are searched, click [Export] to export these logs.

## 16.2 Backup and Restore Configuration

Go to Home -> Operation and Maintenance Management. Click "Backup and Restore Configuration" to go to the following interface.



You can import the former system configuration files to the new version. Click [Backup System Configuration] in the last version to backup the system configuration files. Then click [Restore System Configuration] in the new version to restore the system configuration.

## **16.3 Viewing Online Status**

Go to Home $\rightarrow$ Operation and Maintenance Management $\rightarrow$ Online Status interface.

You can view the online status of encoding device, decoders and storage servers and the record status of the storage server and encoding devices.

Check and Export Log Back	up ar	nd Restore Configu	uration Re	al-time Status Sta	atus Log		
Encoding Device Online Status 100% Online: 7 Offline: 0		Decoder Status 100% Online: 1 Offline: 0		Server Ol 71.43% Online: 5	5	Record Status of the Storage Server 0% Video recording: 0 No video: 10	Record Status of Encoding Devices 75% Video recording: 3 No video: 1
Area	^	Device Name	Туре	Channel Number	Alarm In Number	Alarm Out Number	IP Address/IP Range/Domain Na
	_	IP Camera01	Standard	1	1	1	192.168.250.105
		IP Camera	Standard	1	0	0	192.168.250.7
		IP Camera	Standard	1	1	1	192.168.250.34
		IP Camera02	Standard	1	1	1	192.168.253.207
		IPC	Standard	1	2	2	10.20.52.201
		IPC	Standard	1	1	1	10.20.18.222
		Device Name	Standard	4	21	9	10.20.52.200

# 16.4 Viewing Status Log

Go to Home $\rightarrow$ Operation and Maintenance Management $\rightarrow$  Status Log interface.

Check ar	nd Export Log Backup	and Restore Configurat	ion Real-time Status	Status Log
Start Time	2021-01-27 00:00:00	End Time 2021-01-27	7 23:59:59 🔦 Searc	h Export
No.	Туре 🗸	Record Time No	de Name Details	Î
1	Decoder online	2021-01-27 12: D	ecoder 1	
2	Monitor online	2021-01-27 12: Devic	ce Name_I	
3	Decoder offline	2021-01-27 12: D	ecoder 1	
4	Monitor offline	2021-01-27 12: Devic	ce Name_I	
5	Monitor offline	2021-01-27 11: Devic	ce Name_I	
6	Decoder online	2021-01-27 03: D	ecoder 1	
7	Monitor online	2021-01-27 03: IP	Camera01	
8	Encoding device online	2021-01-27 03: IP	Camera01	
9	Monitor online	2021-01-27 03: Devic	ce Name_I	
10	k da mikana am lina	-2021 01 27 02. David	NI T	✓ The 1 /2Page ►► Per Page 50 ✓ Entry 1-50 Total: 77

In this interface, record status, online or offline status of servers and monitor client can be viewed.

Set the start time and the end time and then click [Search] to search status logs.

The searched logs can be exported by clicking [Export].

# 17 Configuration

## **17.1 Local Settings**

Go to Home  $\rightarrow$  Configuration  $\rightarrow$  Local Setting.

Auto Login: if enabled the system will automatically log in when running this software next time.

Auto Startup: if enabled, the system will automatically start when the computer starts.

Show tips when the node is offline: if enabled, the system will pop up tips when there is node offline.

Trigger audio when the node is offline: if enabled, the system will trigger audio when there is node offline.

Full name display for DVR/NVR's channels: if enabled, the DVR/NVR's channel name listed in the resource tree will show the DVR/NVR name and the channel name. If disabled, only the channel name is shown.

Substream display of new view: if enabled, the new view will be displayed at substream.

Verify the password before exiting the program: if enabled, you shall enter the password before exiting the program.

In this interface, you can also select the resource tree sorting rules, video configuration rules, language, time display format and HDMI screen resolution and keyboard layout.

Check "Alarm Sound Loop" and then click "Apply". Go to Alarm Center→Alarm Linkage Settings. Select the device and alarm type and enable Audio and set the schedule. The alarm audio will be triggered upon detecting an alarm event and audio alarm icon will display on the lower right. Click this icon to turn off the audio.

## **17.2 Overload Settings**

This system supports CPU and memory overload protection. When the system overloads, the monitor client will restrict the new live view and playback operation and the overload tip will prompt. Go to Home $\rightarrow$ Local Configuration $\rightarrow$ Overload Setting. Select the overload upper limit and then click [Apply] to save the settings.

## **17.3 Alarm View Settings**

Go to Home $\rightarrow$ Configuration $\rightarrow$ Alarm View Setting.

Automatic Pop-	up Alarm Page	Full screer	n display	when popping up	Full Screen Display	DISPLAY1	$\sim$
Close Alarm page	Automatically s	hut down 🗸	Time	SSecond	$\mathbf{\vee}$		
Number of Screen	s 1	$\sim$					

In this interface, users can enable "Automatic Pop-up Alarm Page" or "Full Screen Display when Popping up", set "automatically /manually close alarm page" and select the number of screens (1/4/6/19 optional).

## **17.4 Server Port Configuration**

Click Home $\rightarrow$ Configuration $\rightarrow$ Server Port Config to go to the following interface.

er port config				
Authentication Server	Config Server	Media Transfer Server	Alarm Server	TV Wall Server
🖉 Enable	🗹 Enable	🗹 Enable	🗹 Enable	🗹 Enable
Port 6003	Port 7002	Port 6006	Port 6033	Port 6036
		Active report port 2009		
Intelligent Analysis Server	Http server	Application Server	Access Server	
🗹 Enable	🗹 Enable	🗹 Enable	🗹 Enable	
Port 6069	Port 8080	Port 6093	Port 6013	

ini Server User Manual

In this interface, you can set the ports of authentication server, config server, media transfer server, alarm server, TV wall server, intelligent analysis server and so on. The service of all servers is enabled by default. Please set these ports as needed.

# 17.5 Upgrade System

Click Home $\rightarrow$ Configuration $\rightarrow$ Upgrade System to go to the following interface.

Upgrade System	
Delete database Upgrade files:	Select Upgrade File
Upgrade System	

Please check "Delete database" as needed.

Insert the USB storage device into the device and then click [Select Upgrade File] to find the upgrade file. Then click [Upgrade System]. During the process of upgrading, please do not power off your device. After the upgrade is finished, the system will automatically reboot.

# **17.6 System Time Configuration**

Click Home $\rightarrow$ Configuration $\rightarrow$ System Time Config to go to the following interface.

System tin	ne config	
Zone	GMT (Dubin, LIS, London, Reykjavik)	~
System time	2021-07-06 11:23:49	<u>^</u>
Timing mode	Automatic	$\sim$
Timing server	time.windows.com	~
Apply	Refresh	

Please select the time zone as needed.

You can set the time manually or automatically as needed.

## **17.7 System Configuration**

Click Home $\rightarrow$ Configuration $\rightarrow$ System Config to go to the following interface.

Alarm preview using third stream	🗌 Do not disp	ay the alarm without s	chedule			
Same alarm reporting interval:	L Hour Selec	t associated alarm type				
Synchronize Platform Time	Device Time co	prrection 🗹 Synchron	ize Time Zone (A	utomatic synchronization	of platform time to equip	ment every
System Name						
Service fault determination time: 1	✓ Mins					
og Retention Time: 365	Day					

In this interface, you can enable "Alarm preview using third stream" or "Do not display the alarm without schedule".

Enable and set the same alarm reporting interval and its linked alarm type.

Choose "Synchronize devices" and "Synchronize Time Zone" and then click [Synchronize Platform Time] to synchronize the device times with the time of the platform.

Service fault determination time: set the failure duration time. When the server failure exceeds this period of time, it will be determined as "Offline". The spare server will take over.

# **17.8 Audio Uploading**

Go to Home  $\rightarrow$  Configuration  $\rightarrow$  Audio Uploading.

Click [Add] to bring the following box.

Add Delete	Search	Q
Audio Na Del	ete	
	Audio Uploading ×	
	Browse Test	
	Audio Name	
	Audio sampling rate: 16000Hz, 16bit; monophonic; file size: less than 10M; file format: ".wav" .	
	OK Cancel	

Click [Browse] to choose the audio file and then enter the audio name. Click [OK] to save this audio. After the audio is uploaded successfully, you can listen to it.

# **17.9 Other Configuration**

Go to Home  $\rightarrow$  Configuration  $\rightarrow$  Other Config.

Enable syste	em SSH service		
🖉 Enable system	SSH service		
Apply	Refresh		

In this interface, you can enable system SSH service. This service is for test.

# 18 Web Client

### **18.1** Operating Environment of Web Client

The web client supports IE9/IE10/IE11, Firefox or Google browser. Please make sure that your browser supports the downloading and use of the Web Client. Here we take IE Client for example.

> Check whether the IE browser prohibits Active X control from downloading:

Open IE browser, click  $\rightarrow$  Internet Options  $\rightarrow$  Security  $\rightarrow$  Custom level...to pop up a security settings window. Then enable all sub options under "Active X controls and plug-ins".

> Check whether there are other components or antivirus to stop downloading Active X control. Please close other components and configure antivirus and firewall to allow the installation of the plugin files.

### 18.2 Start IE Client

Before starting IE client, make sure all servers must be started first.

### Login

Input the IP address or domain name of Authentication Server and the web server port, for example: http://192.168.50.3:8088 (In this example, IP address is 192.168.50.3. The default web server port is 8088) to go to IE Client. Then input the user name and password you created in Account and Permission interface, select the language and platform and then click "Login" to login to the IE client.



Please download the relavant Active X controls according to the tips if you login to the IE client for the first time.

In the platform interface, users can modify the login password and remotely set the monitor client and configuration client. In the web monitor client, click "Return to Configuration" to go to the web configuration client. In the web configuration client, click "Return to Monitor" to go to the web monitor client or configuration client, click the platform logo to return to the platform interface.

The operation steps of this web client interface are similar as the monitor client. Please refer to relevant chapter for details.

# **19** Troubleshooting

#### 1. How to modify the password by yourself?

Login the server and then go to the Account and Permission interface. Select the account and click 🗹 to modify the password.

Modify User	×
Enable 🗹	
User Name* 1	
Password* Enter Password	
Confirm Password* Enter Password	
At least 8 digits in length, including three or more of numbers/lowercase le uppercase letters/symbols	tters/
Display Password	
Permission Group* 1	$\checkmark$
Schedule Not Enabled	$\checkmark$
Bind MAC Address 00 : 00 : 00 : 00 : 00 : 00 : 0	0
Remark	
OK Cancel	

#### 2. Unable to login IE client.

1) Please check whether the Active X control is forbidden to download and refer to the operating environment in Operating Environment of Web Client.

2) Please check whether the IP address input in the browser address bar is right.

Suppose the LAN IP address of the authentication server is 192.168.50.3, WAN IP address is 58.251.86.194, domain name is authentication.meibu.com and Web port is 8080. If logging in to the IE client in LAN, please input http://192.168.50.3:8080, or http://58.251.86.194:8080, or http://58.251.86.194:8080, or http://58.251.86.194:8080 (only when the WAN IP is a fixed IP, will it take effect).

#### 3. Some service works abnormally after all servers start.

- 1) Please check whether the IP address and port of each service is right.
- 2) If no HDD is installed, the storage server will not be online.

#### 4. The device information cannot be seen or the device is offline after the user logins to the monitor client.

1) Please check whether this user account is an administrator account. If this account is an operator account, please checkup whether it has the authority to view the device information.

2) Please check whether the media transfer server of the device has been started.

#### 5. The alarm information cannot be received after the user logins to the server.

- 1) Please check whether the schedule of sensor alarm, motion detection alarm and so on are set in the system.
- 2) Check whether the alarm server is online.

#### 6. The record cannot playback after the user logins to the server.

1) Please check whether the storage server is online. If it is online, please checkup whether this account logged on has playback permission.

2) Please check whether the record source selected has record data. If you want to get record data from a storage server, please checkup whether to set the record schedule of the storage server or not.

3) Check whether there are record data in the playback channel and whether the record source and the start time and the end time of the playaback is set up correctly.

4) Please check the record schedules of the storage server are set correctly.

#### 7. The configuration of devices cannot be modified remotely after the user logins to the server.

1) When the device configuration is required by the server and prompt "Someone is configuring. Please try later", please open the IE browser to login to the device remotely and then go to "Online user" interface to see if there are any other users logging in.

- 2) Please go to the live to see whether the device is being set up.
- 3) If the problem still exists, please contact your device manufacturer.

#### 8. The preview image on the server cannot display fluently.

1) Please check whether the CPU occupancy rate of the server is 100% or there still has usable memory. This situation will not emerge when the CPU occupancy rate is less than 75% and there still has usable memory.

- 2) Please check whether the network environment is supported, including whether the uplink bandwidth of the device and stream match
- and whether the downlink bandwidth of the media transfer server and the streams of all channels of devices match.
- 3) Please check whether the media transfer server is overload operation.

#### 9. After starting the authentication server and media transfer server, the storage server still cannot save.

1) Please check whether channels of devices are added to the storage server.

### Note:

- 1. For face recognition function, you shall add the face recognition devices.
- 2. It is recommended that the face recognition device only connects one intelligent analysis server.
- 3. It is recommended to use HDMI output.

### Firewall Requirement

In order to ensure the network security, it is necessary for the system to set up firewall. All monitor ports shall be opened. Refer to server port configuration chapter for these open ports. If all these ports are modified, these open ports shall be modified accordingly in the firewall configuration.