

# PARAMONT

## Paramont CMS AI TSS User Manual



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## **1** Introduction

## 1.1 Introduction

CMS Standard is a brand new video surveillance management platform released by our company, seamless access to all products of our company and encoding devices of the famous manufacturers in the industry. With the powerful capability of

video surveillance management, real-time preview, record storage, record playback, record download, alarm linkage, decoding on TV Wall, keyboard control, vehicle entrance and exit management as well as intelligent analytics are supported. Additionally, due to its open system architecture, its SDK/OCX can be provided to the third party for secondary development. Therefore, CMS Standard can meet the client's demands of centralized video management and can be widely used in the video surveillance of industrial park, education, banking, chain stores and buildings.

## 1.2 Software Architecture



## **1.3 System Components**

#### 1.3.1 System



#### 1.3.2 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.

#### 1.3.3 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.

#### 1.3.4 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 Version

Signal access on trial	Max signal access	
32 channels video signals	30000-ch video signals	

## 2 Configuration Requirement

## 2.1 Software and Hardware Configuration Requirement

## 2.1.1 S&H Config Requirement for Control Center

No.	CMS components	Recommendation for hardware configuration	Recommendation for software configuration	Number
1	Monitor Client	Inter(R) Core(TM)i3 3.40GHz or above/4GBMemor DDR3/NV GT430 or AMD HD6570 or above /500GB SATA/1000M NICs	Windows 7 SP1 32bit/64bit Professional/Ultimate Windows 8 32bit/64bit Professional Windows 10 32bit/64bit Professional	As needed
2	Authentication Server	Inter(R) Core(TM)i3 3.40GHz or above/4GBMemor DDR3/NV GT430 or AMD HD6570 or above /500GB SATA/1000M NICs	Windows Server 2016-64bit /Windows Server 2012-64bit /Windows Server 2008(32bit\64bit) /Windows Server 2003(32bit\64bit)	It also can be run in the PC of Monitor Client.
3	Intelligent Server	Inter(R) Core(TM)i5 7500 3.0GHz or above/ 4GBMemory/500GB SATA/2×1000M NICs	Windows Server 2016-64bit /Windows Server 2012-64bit /Windows Server 2008(32bit\64bit) /Windows Server 2003(32bit\64bit)	As needed

The recommended 64-bit hardware configurations are as follows.

No.	CMS components	Recommendation for hardware configuration	Recommendation for software configuration	Number
1	Monitor Client-64bit	Inter(R) Core(TM) i5 7500 3.0GHz or above /16GB DDR3/Intel HD Graphics 530 2GB or above/ NVIDIA GeForce GTX 1060 6GB or above , (multi-screen : 2GB GDDR5memory ) /500GB SATA/Gigabit NIC	Windows 7 SP1 64bit Professional/Ultimate Windows 8 64bit Professional Windows 10 64bit Professional	As needed

## 2.2 Requirement for Firewall

In order to ensure the network security, it is necessary for the system to set up firewall. All monitor ports shall be opened in the installed servers. The open ports are as follows:

Server	Port Type	Port
Authentication Server	Internal Port	6003
Configuration Server	Internal Port	7002
HTTP Server	Service Port	8080
	Internal Port	6006
Media Transfer Server	Auto Report Port	2009
Storage Server (windows version /IP-SAN)	Internal Port	6009
Intelligent Server	Internal Port	6069
Alarm Server	Internal Port	6033
TV Wall Server	Internal Port	6036

**Note**: The above-mentioned ports are the default internal ports of servers. If all these ports are modified, these open ports shall be modified accordingly in the firewall configuration.

## 2.3 Confirm Installation Environment

Item	Checkup Standard
Hardware Check whether the hardware meets the standard required. (including CPU, memory, H	
Software	Check whether the software meets the standard required. (including the type and version of the operation system, CMS version, etc.)
Front-end device	Check whether the device access is normal.
Firewall setup	Check whether those open ports of firewall meet the standard required.
Network	Check whether the networks of front-end devices and center equipments are normal.
TCP/IP config	Check whether the settings of IP address, subnet mask, gateway and DNS correct.

## **3** Install and Uninstall the Software

## **3.1 Install the software**

There are two setups-setup of Server and Client.

#### 3.1.1 Install Server

- 1) Double click "Paramont CMS AI TSS server.exe".
- 2) Click [I accept the terms of the license agreement] and then click [Next].



3) Click [Browse] to select the installation location and then click [Next]



4) Check "Launch Software" as needed and then click [Finish]".



#### 3.1.2 Install Client

- 1) Double click "Paramont CMS AI TSS client.exe".
- 2) Click [I accept the terms of the license agreement] and then click [Next].

Paramont CMS AI TSS client	- InstallShield Wizard	×
Paramont CMS AI TSS client License	- InstallShield Witzard Software Installation Ucensing Agreement for Innovative Video Technology, Inc.  1. This software Installation Ucensing Agreement for Innovative Video Technology, Inc.  2. All overneitig and intellectual property rights of this software/including but not limited to any image pictures, carbons, record, music, letters and additional program (III exe, etc.), attached heip lise a all duplicates of this software and libeling to linovative Video Technology, Inc.  3. All overneitig and intellectual property rights of this software/including but not limited to any image pictures, carbons, record, music, letters and additional program (III exe, etc.), attached heip lise a all duplicates of this software and heib laboring bin overwide Video Technology, Inc. Users table not cop and modify these metanist independently.  3. Innovative Video Technology, Inc. will regularly update the statement of privacy right to reflect the teadback.idees of our company and clients. Our company encourages your regular examination fo this statements to check vehicler a protect your information or mot	y
	4. Users shall not reverse engineer, decompile or diseasemble this software and offenders must take the responsibility of such breach. 5. This software offeed by innovative Video Technology, Inc. shall be charged Users who want to download, install, copy and distribute this software must be authorized and approved by innovative Video Technology, Inc.	te T
	Inccept the terms of the license agreement     Print	
	I go not accept the terms of the license agreement	
InstallSrield	< Back Next> Can	cel

3) Click [Browse] to select the installation location and then click [Next].

Paramont CMS AI TSS client - InstallShield Wizard				
Choose Destination Location Select folder where setup will inst	tell files.			
	- Destrestion Folder- C.VFrogram Files (x80)/Paramont CMS AI TSS client - C.VFrogram Files (x80)/Paramont CMS AI TSS client			
InstallShield	<back next=""> Cance</back>	el		

4) Check "Launch Software" as needed and then click [Finish]".

Paramont CMS AI TSS client - In	stallShield Wizard
	InstallShield Wizard Complete The InstallShield Wizard has successfully installed Paramont CMS AI TSS client. Click Finish to avit the witard
	Launch Software
<b>Install</b> Stield	<book cancel<="" td=""></book>

## 3.2 Uninstall Software

If the new version needs to be installed or there is no need to use this software, this software can be uninstalled. It is strongly recommended to back up the configuration data before installing the new version of CMS.

The uninstallation steps of the Server are similar to the uninstallation of the client.

Click "Start"  $\rightarrow$  All Programs  $\rightarrow$  CMS Server  $\rightarrow$  Uninstall to pop up the following wizard. Click "Yes" to confirm.



Then click "Finish" button to completely uninstall Authentication Server.



## 4 Login

### 4.1 Run Servers

Before logging onto the client, please ensure all servers are working normally. Having been installed successfully for the first time, the server tray will minimize on the taskbar of the computer. Double click the server tray icon to pop up the server tray interface. You can also right click the server tray icon and select "Display main interface to pop up the server tray interface as shown below.



The working status and port can be checked from the server tray. All servers can be stopped and restarted. Additionally, all server ports can be modified as needed. Click the corresponding port number to modify it and the modified port can be saved automatically after you move your mouse to another place.

Please set up according to the actual network.

## 4.2 Login

Double click the shortcut icon of "Monitor Client" to run the software as shown below.

	Login		×
User Name	admin	~	
Password	•••••		
Authentication Server	10.20.52.7	∽ 6003	
🖌 Remember Pa	ssword	Auto Login	
Login	Cancel	Reset pass	word

- 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). Check "Remember Password" or "Auto Login" as needed.
- ③ 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.

C	reate Security Questions / Answers	×
Question:	×	
Answer:		
Question:		
Answer:		
Question:	V	
Answer:		
ОК	Cancel Skip	

After you log in, a record partition setting box will pop up. Please select the desired record storage location. Then click [OK] to save the settings.

		R	ecord Partition Setting	×
Partition	Partition	Remain Size		
D	183.01GB	118.17GB		
E	182.74GB	127.72GB		
			OK Cancel	

## 4.3 Main Menu Interface Introduction

Paramon	t CMS AI TSS		n X ome Resource Management Li	ive View1	Storage	). 🔅 🕂 2 Playback Local Configuration		view system settings Help – 🗆
Live View	Alarm View E-Map Monitoring	₿,	Storage Playback Record Playback   By Time Slice   By Ex By Tag   Backup   Search Picture Record Setting   Schedule Setting	vent		E-Map E-Map Setting		TV Wall Management TV Wall Setting   TV Wall View   Task Setting   TV Wall System Setting
Resource Management         Add, Edit or Delete Device   Device Setting         Area Setting   Channel Group Setting		£	Account and Permission User Account Setting User Permission Group Setting		Alarm Center Alarm Log   Alarm Linkage   Schedule Setting   Manual Alarm Out SOP Setting   Alarm Task Settings			Parking Lot Management Vehicle Monitoring   Vehicle Management Search   System Settings   Blacklist
	<b>tillance</b> /iew   Search by Face   Search ary Management   Configuration		Face Greeting VIP Management   Task   Camera Deployment   VIP Search			Face Attendance Staff Management   Camera Deployment Task   Attendance query	<u>ر</u>	Line Crossing Counting Real-time Statistics   Occupancy Statistics Historical Statistics   Occupancy Control
Device Alarm 🗹 Char	nnel Alarm 🖉 Sensor Alarm 🖉 O	ffline Alarm	🖉 Server Alarm 🗹 Alarm task					Unhandled Alarm Number:1
Alarm Time	Alarm Resource	Alarm Type	Storage Device Pl Storage	Device C		r Handling Disposition Remark		
020-08-04 17:00:12	Storage Server	Server no					5	
			Authentication Server	Address: 1	0.20.52.7	Port: 6003 User Name: admin <b>4</b>	CPU: 12%	Memory: 79% 2020-08-04 17:14:18

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	"Live View", "Edit live view", "Change to home page", "Change to smart view page", "Change to smart site 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", "Line Crossing Counting", etc.
Help	Including "User Manual", "Register license" and "About CMS"

#### Functional area

Click it to view more menus.

Menu	Description
Live View	To view live images and to record, snapshot and talk, etc.
Record Playback	To remotely play the local records or back up records.
E-Map	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.
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.
Face Greeting	To welcome visitors based on face recognition technology
Face Attendance	To help to manage staff attendance based on face recognition technology
Temperature Measurement	To view the statistics of pass-by counts(today/total), non -mask counts(today/total), over temp counts(today/total); To search records based on temperature/mask detection;
Parking Lot Management	To manage vehicles in the parking lot
Line Crossing Counting	To monitor and analyze people/vehicle flow in real time
Operation and Maintenance Management	To search, export and maintain logs.
Local Configuration	To set record path, snapshot path, system startup and maintenance, overload and alarm view.
Functional Selection	To select common functions displayed on the home page.

#### Other buttons:

Button	Description
-	Click it to hide the interface.
	Click it to zoom in or out the interface.
×	Click to exit the software.
+	Click it to add the live view page.
•	When the tab pages exceed the applicable numbers, this icon will display. Click it to view the hidden tabs.

## **5** Device Management

## 5.1 Add Encoding Device

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

Decoder	Device (Onlir	ne/Total numt	$\langle$	Add E	ncoding D	evice				×
LED Disp Intelliger	Quickly A	dd Manually Ad	ld Initiatively Report					Device Quan	tity:58 Refresh	Port
Storage :		Device Name	IP Address	ModifyIP	Port	Subnet Mask	Protocol	Version	Device ID	6036
Media Tr Access So		Device Name	10.20.18.38		6036	255.255.0.0	Standard Device	1.4.4	00:18:AE:8D:8E:B9	9008
larm Se		Device Name	10.20.5.153		6036	255.255.240.0	Standard Device	1.4.4	00:18:AE:62:E6:84	9008
V Wall (		Device Name	10.20.19.208		6036	255.255.0.0	Standard Device	1.3.4	00:18:AE:8D:92:27	_
			10.20.18.230		37777	255.255.0.0	Dahua		4c:11:bf:60:51:62	
		IPCamera	10.20.18.231		80	0.0.0.0	ONVIF			
		IPCamera	10.20.19.44		80	0.0.0.0	ONVIF			
		IPCamera	10.20.19.37		80	0.0.0.0	ONVIF			
		O8FBMS1	10.20.23.38		554	255.255.0.0	Standard Device	5.0.1.0	00:18:AE:00:54:87	~
l	N		nsfer Server Transfer Serv		]	_	ge Server Storage ate Area 🗆 Autor Default p	natically Link	Area OK Cancel	

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

#### 5.1.1 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. 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 and storage server can be selected when adding devices. Users can also create new media transfer server and storage server in advance (see Add Media Transfer Server and Add Storage Server).

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

#### 5.1.2 Manually Add

			Add Encoding	Device				×
Quickly Add	Manually Add Initiativ	vely Report						
IP Addr	ess/IP Range/Domain Name/UI	RL	Protocol	Port	User Name	Password	Test	Delete
IP Address	V 0.0	. 0	Standard Device	6036	admin			
							_	
	Select Transfer Server		in the second second	Select	Storage Server		~	
	Select Area	default a	area 🗸 🗸		Create Area	Automatically	Link Area	
						Default passwore	ок	Cancel

- ① Enter IP address/IP range/domain name, 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 "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 Encoding Device													
Quickly Add Manually Ad	Initiatively Repo	rt												
IP Address/IP Range/Dom	ain Name/URL	Protocol	Port	User Name	Password	Test	Delete							
URL 🗸		RTSP												
<														
Select Tra	nsfer Server Transfe		Select S	torage Server	storage sever	$\sim$								
	Select Area 🛕 defa	ult area 🗸 🗸		Create Area	Automaticall	y Link Area								
				I	Default passwo	rd 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).

#### 5.1.3 Initiatively Report

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

					Ado	d Encoding	Device			×
	Quickly Add	Manually Add	Initiativ	ely Report						
		Device Number			Protocol	User Name	Password	Delete		
	lo.	~			Standard D…	admin	•••••			
1										
		Select Transf	er Server	Transfer	Sever	$\checkmark$	Select S	torage Server	storage sever 🗸 🗸	-
		Se	elect Area	🛕 defau	lt area	~		Create Area	Automatically Link Area	
h									Default password OK	Cancel
5										

- 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 CMS 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 IP camera to connect Server", enter the IP address and port (default 2009) of the CMS and then set the device number of the IP camera.
- ② Select the transfer server, storage server, area and then click [OK].

## 5.2 Modify or Delete Device

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

	I	Edit	Device N	. Тур	e	Channel	Alarm In	A	larm O	IP Addre	ess/IP Ran	ge/Dom	ain Na	Port	Selec	t Area
			10.20.52.2.	Standa	ard	0	0		0		10.20.5	52.200		6036	defau	ult area
	(		IPC	Standa	ard	1	2		2		10.20.5	52.201		9008	defau	ult ar
	(		pt	Standa	ard	1	1		1		192.168.	253.204		9008	defau	ult ar <sup>.</sup>
evice N	Туре	Channel	Alarm In	Alarm O	IP Add	ress/IP Range/Do	main Na	Port	Select Area	Select Tr	Select St	Online St	Model	Version	HDD Stat	Alarm St
).20.52.2	Standard					10.20.52.200		6036	default area	a Transfer S	Storage Se	Wrong Pa				9
IPC	Standard	1	2	2		10.20.52.201		9008	default ar	Transfer S	Storage S	Online	E2128-T	5.0.1.0(10		6
pt	Standard	1	1	1		192.168.253.20	4	9008	default ar	Transfer S	Storage S	Online	IPC	5.0.1.0(10		6

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

Click Click chief to modify the IP address, port and so on.

Click **ID** to delete the added device. Check the devices and click [Delete] to delete devices in bulk.

## 5.3 Device Upgrade

In the "Add, Edit or Delete Device" interface, check the devices you want to upgrade and then click [Upgrade]. In the dropdown list, select "Batch Upgrade for IPC" or "Batch Upgrade for ANPR Camera" to upgrade the firmware of IPC/ANPR Camera.

Add	Delete	Select Area	Select Tra	ansfer Server	Select St	torage Serve	r	Upgrade 🖵	Select SOP		
	A	Device N	Turne	Channel	Aller Tre		TD	Batch Upgrade for IPC			
	Edit	Device N	Туре	Channel	Alarm In	Alarm O	IP	Batch Upgi	rade for ANPR (	Camera 🟅	
_											

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

## 5.4 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.

## 5.5 Area Setting

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

					Create Area	×
Add, Edit or Delete	Device Dev	vice Setting	Area Sett	ing Channel Group Setting	Parent Area 🛕 default area	~
Add Delete All I	Empty Area				Area Name next	
Area Name	Channel	Edit	Delete			
🏠 default area	3		Ū			
<b>û</b> 1	12				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].

Click low modify area; click to delete area.

## 5.6 Channel Group Setting

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

Selectable Channel Selected Channel	
A3H-2MP-20-210       IPC	
Search Q Select All Reverse Clear All OK Cancel	>

- ① Click [Add].
- ② Enter channel group name, channel group and dwell time.
- ③ Select the parent channel group.
- Add channels to the channel group. Check the desired channels and click to add channels; choose the selected channel and click to remove those channels; Click to add all channels; click to remove all selected channels. You can also enter the key words to search the channels and then select them.
- (5) Click [Ok] to save the settings.

Select the added channel group and click 🚺 to modify the channel; click 🛄 to delete the channel.

## 5.7 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.

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

Add, Edit or Delete Device Device	e Setting	Area Setting Cha	annel Group S	Setting							
Device Type	Add	Add Delete Search									
Encoding Device (Online/Total numbe Decoder (Online/Total number:0/0)		Server Name	Device N	Channel	IP Address	Port	Client Co	Authentic	Edit	Delete	
LED Display Device (Online/Total numl		Transfer Server	2	6	10.20.52.7	6006	Online	Online			
Intelligent Analysis Server (Online/Tota										_	
Storage Server (Online/Total number:1											
Media Transfer Server (Online/Total nu											
Access Server (Online/Total number:0/											
Alarm Server (Online/Total number:1/:											
TV Wall Server (Online/Total number:1											

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

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	dd 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
to modify tl	ne media transfer server	; click 🔟	to delete the media transfer server.	

## 5.8 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. Go to Home  $\rightarrow$  Add, Edit or Delete Device.

Add, Edit or Delete Device Device	Setting	Area Setting Cha	annel Group	Setting							
Device Type	Add	Delete						Sea	rch		
Encoding Device (Online/Total numbe Decoder (Online/Total number:0/0)		Server Name	Device N	Channel	IP Address	Port	Client Co	Authentic	Record P	Edit	Delete
LED Display Device (Online/Total numl		Storage Server	2	6	10.20.52.7	6009	Online	Online	:=		Ī
Intelligent Analysis Server (Online/Tota											
Storage Server (Online/Total number:1											
Media Transfer Server (Online/Total ทเ											
Access Server (Online/Total number:0/											
Alarm Server (Online/Total number:1/:											
TV Wall Server (Online/Total number:1											

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

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.

			Add Storage Server	×
Quickly A			Server Quantity:4 Refresh	
	IP Address	Port		
	172.16.47.125	6009		
	172.16.47.128	6009		
	10.100.20.243	6012		
	192.168.1.22	6009		
			OK Cancel	

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.

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

Device Type	Ad	d Dele	te						Sea	irch		
Encoding Device (Online/Total numbe Decoder (Online/Total number:0/0)	(		erver Name	Device N	Channel	IP Addre	ss Port	Client Co	Authentic	Record P	Edit	Delete
LED Display Device (Online/Total numl	(	St	orage Server	2	6	10.20.52	.7 6009	Online	Online			
Intelligent Analysis Server (Online/Tota						Record Par	tition Setting		/		×	
Storage Server (Online/Total number:1												
Media Transfer Server (Online/Total n			Partition Sym	ool Partiti	on Rem	ain Si		· · · · · ·				
Access Server (Online/Total number:0/			C(System Drive	er) 100GB	45GE	3						
Alarm Server (Online/Total number:1/:												
TV Wall Server (Online/Total number:1		$\checkmark$	D	183GB	1270	βB						
			E	182GB	1280	βB						

## 6 Intelligent Management

Before using intelligent functions, please confirm the intelligent analysis server has been already created and it 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 Set	tting Area Setting	Channel Grou	p Setting				
Device Type	^	Server Name 🔺	IP Address	Port	Client Con…	Authentic…	Edit	
Encoding Device (Online/Total Decoder (Online/Total number LED Display Device (Online/Total Intelligent Analysis Server (Online/Total nu Media Transfer Server (Online/Total nur TV Wall Server (Online/Total nur TV Wall Server (Online/Total nur	::0/0) tal numb line/Tota umber:1/ 'Total nur mber:1/1	Intelligent server	10.20.52.152	6069	Online	Online		

Users can also add a new intelligent analysis server. Click [Add] and then click [Refresh] to quickly search the server in the same local network. Click the "Manually Add" tab to manually add the IP address and port of the server.

## 6.1 Temperature Measurement

Before start, please add thermal network cameras or temperature measurement terminal first. (Click "Resource Management"  $\rightarrow$  "Add, Edit or Delete Device"  $\rightarrow$  "Encoding Device"  $\rightarrow$  "Add")

#### 6.1.1 Temperature Settings

- 1. Click Home→Temperature Measurement→Live Preview→ 🧟 to go to the following interface.
- 2. Set the temperature unit and abnormal temperature threshold (the temperature range is from 35 °C~42°C) as needed.

		A Home	L Temperature Measurement*	+	View System Settings Help 🗕 🗖 >					
Live Preview Search	h Statistics									
Monitoring Point			Configuration		×					
Search B- A default area (O) L IPC	Temperature unit Abnormal temperature the Start time Record va Pop up automatically	2000-01-01 00:00 3	200 pop up 🔲 Pop up non-mask a	(35°C~42°C	will be rebooted after you change it.					
	Data display  Do not display normal data									
	Data sources for Temperatu	e ladiet	O Detection	n data						
	over temp voice prompt Non-mask voice prompt									
_					Apply					

- 3. Choose the start time of temperature measurement statistics.
- 4. Enable and set the statistical period of validity.
- 5. Enable or disable pop-up window.

Automatically pop up: the alarm box will be automatically popped up when the temperature of the person exceeds the abnormal temperature threshold.

Pop up non-mask alarm box: the alarm box will be automatically popped up when the detected person doesn't wear a mask.

- 6. Check "Do not display normal data" as needed.
- 7. Set the data sources for temperature measurement terminal.

8. Enter the content of the abnormal voice prompt as needed. The abnormal voice prompt includes "Over temper voice prompt" and "Non-mask voice prompt".

#### 6.1.2 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.							
	Statistical display area, including such as total pass-by counts(today/total),							
3	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							

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.

	Alarm	Handling	×
Snapshot Camera	IPC	Snapshot Time	2020-08-05 11:26:39
Temperature	36.8°C	Suspected over temp	Νο
Mask Status	Mask Off	Infected Area	$\checkmark$
Status	~	Name	
Phone Number		ID Number	
Address			
Remark			
Pop up automatic	ally 💶	Previous	Next Save

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

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.



#### 6.1.3 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.

Live Preview Search Statistic	S												4
Monitoring Point													Expo
Search Q □- □   default area (Online/Tot	No.	Suspecte	Snapshot	Time	Target Pi	Original	Tempera	Mask Sta	Status	Alarm Ha	Record Pl	Processin	Processing Time
<ul> <li>✓ If default area (of the protocol</li> <li>✓ If the protocol</li> <li>✓ If the protocol</li> </ul>	1	No	IPC	2020-08-05 11:53		je s	36.6°C	Mask On					
	2	No	IPC	2020-08-05 11:53		Ţ	36.6°C	Mask On					
	3	No	IPC	2020-08-05 11:53			36.6°C	Mask On					
Start Time 2020-08-05 00:00:00 🗢	4	No	IPC	2020-08-05 11:52			36.6°C	Undetected					
End Time 2020-08-05 23:59:59 💭 Temperature Ran( All 🗸 🔀 Mask Status All 🗸	5	No	IPC	2020-08-05 11:26			36.8°C	Mask Off	Confirmed			admin	2020-08-05 13:54
Status All Status V Infected Area All V Keywords	6	No	IPC	2020-08-05 <b>1</b> 1:26			36.7°C	Undetected					
Search									<b>  ∢ ≪</b> The 1	/1Page	e 🍽 🕨 Per	Page 50 🗸	Entry 1-6 Total

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

Click 🗹 to edit the personal information. If the alarm information has been edited, it cannot be edited again.



#### 6.1.4 Statistics

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



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". Additionally, the statistical information can be displayed by camera as shown below.

Camera												Exp
type	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	total
Abnormal Temp	0	0	0	0	0	0	0	0	0	0	0	0
Total Pass-Thro	0	0	0	0	0	0	6	0	0	0	0	6
Mask Off	0	0	0	0	0	0	1	0	0	0	0	1
Abnormal Temp	0	0	0	0	0	0	0	0	0	0	0	0
Total Pass-Thro	0	0	0	0	0	0	2	0	2	0	0	4
Mask Off	0	0	0	0	0	0	0	0	0	0	0	0
Abnormal Temp	0	0	0	0	0	0	0	0	0	0	0	0
Total Pass-Thro	0	0	0	0	0	0	8	0	2	0	0	10
Mask Off	0	0	0	0	0	0	1	0	0	0	0	1
	type Abnormal Temp Total Pass-Thro Mask Off Total Pass-Thro Abnormal Temp Total Pass-Thro	type05:00Abnormal Temp0Total Pass-Thro0Mask Off0Abnormal Temp0Total Pass-Thro0Mask Off0Abnormal Temp0Total Pass-Thro0	type05:0006:00Abnormal Temp00Total Pass-Thro00Mask Off00Abnormal Temp00Total Pass-Thro00Mask Off00Abnormal Temp00Total Pass-Thro00Total Pass-Thro00	type         05:00         06:00         07:00           Abnormal Temp         0         0         0           Total Pass-Thro         0         0         0           Mask Off         0         0         0           Abnormal Temp         0         0         0           Total Pass-Thro         0         0         0           Mask Off         0         0         0           Total Pass-Thro         0         0         0           Total Pass-Thro         0         0         0           Total Pass-Thro         0         0         0	type         05:00         06:00         07:00         08:00           Abnormal Temp         0         0         0         0           Total Pass-Thro         0         0         0         0           Mask Off         0         0         0         0           Abnormal Temp         0         0         0         0           Mask Off         0         0         0         0           Total Pass-Thro         0         0         0         0           Mask Off         0         0         0         0         0           Total Pass-Thro         0         0         0         0         0           Total Pass-Thro         0         0         0         0         0           Mask Off         0         0         0         0         0         0           Abnormal Temp         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	type         05:00         06:00         07:00         08:00         09:00           Abnormal Temp         0         0         0         0         0           Total Pass-Thro         0         0         0         0         0           Mask Off         0         0         0         0         0           Abnormal Temp         0         0         0         0         0           Mask Off         0         0         0         0         0         0           Abnormal Temp         0         0         0         0         0         0         0           Abnormal Temp         0         0         0         0         0         0         0           Abnormal Temp         0         0         0         0         0         0         0           Mask Off         0         0         0         0         0         0         0         0           Abnormal Temp         0         0         0         0         0         0         0         0           Abnormal Temp         0         0         0         0         0         0         0         0         <	type         05:00         06:00         07:00         08:00         09:00         10:00           Abnormal Temp         0         0         0         0         0         0         0         0           Total Pass-Thro         0         0         0         0         0         0         0         0           Mask Off         0         0         0         0         0         0         0         0           Abnormal Temp         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	type         05:00         06:00         07:00         08:00         09:00         10:00         11:00           Abnormal Temp         0         0         0         0         0         0         0         0           Total Pass-Thro         0         0         0         0         0         0         0         0           Mask Off         0         0         0         0         0         0         1           Abnormal Temp         0         0         0         0         0         0         0         1           Abnormal Temp         0         0         0         0         0         0         0         1           Abnormal Temp         0         0         0         0         0         0         0         1           Abnormal Temp         0         0         0         0         0         0         0         0         0         2           Mask Off         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	type         05:00         06:00         07:00         08:00         09:00         10:00         11:00         12:00           Abnormal Temp         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	type         05:00         06:00         07:00         08:00         09:00         10:00         11:00         12:00         13:00           Abnormal Temp         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	type         05:00         06:00         07:00         08:00         09:00         10:00         11:00         12:00         13:00         14:00           Abnormal Temp         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	type         05:00         06:00         07:00         08:00         09:00         10:00         11:00         12:00         13:00         14:00         15:00           Abnormal Temp         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0

## 6.2 Face Surveillance

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



#### 6.2.1 Object Library

Create and edit object library by going to Home → Object Library.

#### • Create Object Library

Right click the intelligent analysis server to select "Add" to add an object library.

Real-time View	Search by Face	Search	Object Library Ma	nagement
Intelligent An		Delete	Add Target	Add Multiple
Intelligent	Ana Add	Reverse	select current page	Import

Add Object Library ×	Add Object Library	×
Lib Name	Lib Name test	
Protocol Type Face Recognition NVR	Protocol Type Face Recognition IPC	$\sim$
Face Recognitio Face Recognition IPC	Face Recognition IPC	
FR Terminal Selectabl FR Box	Selectable Device Selected Device	
Third-Party FR Terminal	A 🗌 default area	
	IPC  Ipc  facial ipc	
SeckList ♥ WhiteList       OK     Cancel	□ IPC	> Album

Object Library Name: please enter the object library name as needed.

Protocol Type: face recognition IPC, face recognition NVR and FR Terminal (Face Recognition Access Control Terminal) are optional. If face recognition IPC/NVR/terminal is selected, please select the corresponding device and click  $\triangleright$  to add the device. Then this library and its targets will be added to the face database of the added device, but the face database and its targets cannot be added to this library.

A menu box will display by right clicking the library name as shown below.



Select "Modify" to modify the library name. Check "Synchronous" and then you can add or delete devices. If adding a device, all targets in this library will be copied to this device. If deleting the added device, all targets of this library will be cleared from this device.

Click "Copy to" to copy the current library (A) and its targets to another library (B) and create library (B). If "Copy to" face recognition NVR/IPC/ terminal is selected, the current library (A) and its targets will be added to the face database of the above-mentioned device.

Click "Delete" to delete the current library.

Forcedly Delete: This function is used to delete the library linking the face recognition NVR/IPC/terminal. When the FR NVR/IPC/terminal is offline or disconnected with the intelligent server, you shall select "Forcedly Delete" to delete the relevant library.

#### Add Targets

Then click this object library and click [Add Target] to create a target.

			Open		▼ 4 Search Pictures P
	Add Target	×			
Add Name: Gender: Province: ID Type: ID NO: Remark:	Male     V       ID Card     V	Birth Date: 2020-08-05  Country: City: Telephone:	Image: Second Secon	Hu Hua	Liế Siyî xiao
		OK Cancel	File name:		Image Elec(*,jpg *,png *,gif)     Open     Cancel

Adding multiple targets:

Delete Add Target	Add Multiple Targe	ets Import From I	Folder Clear All	Targets Cust	om Export Se
Open ○ ○ ○ ○ ► Libraries	Distures		✓ 4y Search	Pictures	Object ID
组织 ▼ 新建文件夹	Pictures •	•	• • Search		2 1
	Helen Hu	Hua	Lili Si		2
▷ ٰ Local Disk (C:) ▷ 👝 Local Disk (D:) ▷ 🦳 Local Disk (E:)					
	File name:		<ul> <li>✓ Image F</li> <li>Op</li> </ul>	iles(*.jpg *.png *.gif) en Cancel	

Import from folder:

Folder & Subfolders: After clicking [Import from Folder] and choosing "Folder & Subfolders", choose a folder including multiple subfolders and then all pictures in the folder and its subfolders will be imported.

Current Folder: After clicking [Import from Folder] and choosing "Current Folder", choose a folder including multiple subfolders and pictures. Then pictures in the folder will be imported, but pictures in the subfolders will not be imported.

Modify or delete targets:

Click  $\ \ \Box$  to modify the information of the target. Click  $\ \ \ \ \Box$  to delete the target.

Click [Custom] to customize the target information.



Import: You can add multiple targets by using this function.



1. Click [Import] and then select "Export template" to export a template. Then edit the personal information according to the tips in the template as shown below.

A	В	С	D	E	F	G	Н		J	K	L	M	N	0	P
The mar	ked red item is	required													
			and certifica	ite numbe	er, please	add ': for exa	mple, 1350000	0000 is written as '13	3500000000:						
	format is 202								· · · · · · · · · · · · · · · · · · ·						
.The cert	ificate number	shall not e	xceed 20 dig	its;											
.The VIP	level is genera	l, medium a	and high;												
Name	Birth Date	Gender	ID Type	ID NO	Country	Province	City	Telephone	Remark	VIP Level	Registration Date	Department	Type of work	Staff Number	Picture addre
Helen	2020-08-05	Female	ID Card	123	China	Sichuan	Chengdu	1350000000		High	2020-08-05	IT	engineer	011111	Helen.jpg
David	2020-08-05	Male	ID Card	12	China	Sichuan	Chengdu	1350000000		High	2020-08-05	IT	engineer	12222	David.jpg
													► U (F:)	Face	
													te 🔚 te	emplate	
													🔤 D	avid	
р.			1.4		1	· .·	C'1 ·	1	1. (		1 (1	· · · · /		elen	
Put	the pict	ure an	a tne p	ersor	iai ini	ormati	on file i	nto the sam	e airect	orv as s	hown on the	e right pictu	ire. 📄 🖻	cicii	

3. Click [Import] and then select "Import file" to select the personal information file to add multiple targets at once.

Click to view the list of the target.

#### 6.2.2 Task Management

Go to Home  $\rightarrow$  Face Surveillance  $\rightarrow$  Configuration  $\rightarrow$  Task.

① Select the schedule and face capture type.

There are two face capture types-face capture by IPC, face match by IPC

Face capture by IPC: if the IPC is a face detection IPC, please select it. It is selected by default.

Face match by IPC: if the IPC is a face recognition IPC, please select it.

Real-time View	Search by Face	Search O	bject Library I	Managem	ent Configurat	ion Visitor Record					
Task Link C	Camera to Sub-screen	Face Detec	tion Algorithr	n Setting	Pop-up Windo	w Setting Face a	ccess permission setting				
Task								Schedule	Setting		
Monitoring		Apply						Add	Delete	Search	Q
	Q irea (Online/Total n	Channel	Object Li	Edit	Face Capt N	✓ Schedule of so… ∽			Schedule	Edit	Delete
- IPC - IPC		IPC	IPC	L.	ce Capture by IPC				7*24		Ī
🦳 📑 th					ce Match by IPC				5*24		
					npty						

For some face recognition terminals, the face recognition function is enabled by default, so there is no need to set the face capture type and schedule.

② Set face match type.

Face Match by IPC: select the IPC, click *intervention* and then double click the library that links the face database of IPC. Make sure this IPC supports face match function.

λ	Channel Na	Object Lib	E	dit	Schedule		Face Captu	re So	$\checkmark$		
	IP Camera01	2			7*24		Face Captur	-			
ľ			objec	t Libr	ary Task	c Se	etting				×
	Object Libr	ary List^	Add	led Ob	oject Libr	ary					^
	□ Hara Intelliger		NO	ntellig	ent Serve	ject	Library Nar	Al	arm	Туре	
	- <mark>2 2(Succ</mark> - & 3(Failu		1	Intell	igent		2	Unma	tche	d	~
			<								>
	Double click the	e library nam	e to ac	ld; dou	ble click t	he a	idded object	library Ok		emove Can	

Schedule and face match configurations of NVR:

You can log in the web client of the NVR and then configure the schedule of face match, select the face group and set the similarity to realize the auto report of the face match result as shown below.

П

			Camera Name		IPC2333	`
r.			Face Rec	cognition	LF	'R
Live Display Playback	Search and Backup Intelligent Ar	alysis Function Panel	Detection	Recognition	Detection	Recogni
Event Notification	Function Panel + Face Recognition		Face Dat	abase 🥕	Plate Dat	abase 🥕
Alarm-out E-mail Display Buzzer	Camera Name	IPC2333 V	Enable 🗹 Succe Parameter Settings	essful Recognition	0	
Alarm Server	Face Recognition	LPR	- ununeter settings		· ·	
C. MT. I	Detection Recognition	Detection Recognition	Face Group 🤇	More 🗹 Al	01;	
Face Recognition   LPR	Face Database 🌧	Plate Database 🍌	Schedule	24x7	Schedule Mana	gement
People/Vehicle Perimeter More	Enable Successful Recognition	Stranger	Text Prompt			
	Parameter Settings Successful Recogni	ition Stranger	Enable alarm ou	tput pulse(Access C	Control)	
General Event	Face Group	Similarity(%) •	Trigger General		Record Configure	P
Combination Alarm IPC Offline   Exception Handling Settings	01 [75		Push		IPC2333	

The alarm type: Matched or Unmatched can be optional.

If "Matched" is enabled, a) when the captured face picture is successfully matched, this result will be pushed to the alarm service and then the match pictures will be shown in the Real-time View interface of Face Surveillance module; b) when the captured face picture is unsuccessfully matched, this failure result will be pushed to the alarm service and the picture will be shown in the Real-time View interface of Face Surveillance module too.

If "Unmatched" is enabled, a) when the captured face picture is successfully matched, this result will not be pushed to the alarm service;

b) when the captured face picture is unsuccessfully matched, this failure result will be pushed to the alarm service and the picture will be shown in the Real-time View interface of Face Surveillance module.

Note: The schedule shall be set first, or the match result will not be pushed.

#### 6.2.3 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 \pm button on the top left corner of the captured face picture to add the face picture to the library quickly; click the 🔍 button to enter the Search by Face interface quickly.

			A	dd to Object I	Library			×
	Object Library List	^	Add Targe	et				^
	<ul> <li>□ ♣ Intelligent server</li> <li>♀ 1(Success)</li> <li>♀ nvr(Success)</li> <li>♀ yt(Success)</li> </ul>		Name: Gender: Province:	IPC Male		Birth Date: Country: City:	22-05-2020	÷
Mask 🐨 Tempe 👌			ID Type: ID NO.: Remark:	ID Card	<b>~</b>	Phone Num	ОК	Cancel

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

Search	Q Track List V					
	1 0	No.	Time	Monitoring Point	Picture	Record Playback
🗐 🙆 default area	0	1	2020-04-11 15:25:32	225-1	-	۲
■ 🖗 🗅 10.100.10.135_6036						
= 172.16.48.191_6036					0	
© 💭 🏠 172.16.48.195_6036	•	2	2020-04-11 15:25:33	225-1		۲
elect image	<u> </u>					
esect image	0	3	2020-04-11 15:25:33	225-1	200	۲
					2008	U
A DECEMBER OF THE OWNER.					100	
		4	2020-04-11 15:25:34	225-1		۲
and the second second						
ALC: UNK		2		1227	(martin	
art Time 2020-04-11 00:00:00	8	5	2020-04-11 15:25:34	225-1		۲
d Time 2020-04-11 23:59:59	8				-	
as. Number 100						0

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

The right panel of the real-time view interface is face match result area. Click it to view the matched details.

		Verified 1	Target Info	×
Alarm Resourc	e: facial ipc	Alarm Tir	me: 2020-05-19	18:30:24
	+	WhiteList		
Name	3IP Camera	101	Gender	Male
Birth Date	2020-05-19		Lib Name	1
ID Type	ID Card			
ID No.				
				OK Cancel

Click to clear all face match result. Click to hide the unmatched result.

#### 6.2.4 Search

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



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  $\bigcirc$  to quickly search images by this picture. Put the cursor on the captured picture and then click  $\blacksquare$  to quickly download the captured picture.

#### 6.2.5 Search Image by Image

① Set the schedule and make sure all channels can be recorded normally.



- ② Select a picture and picture source.
- ③ Set the start time and the end time.
- (4) Set the maximum count and similarity.
- (5) Click [Search].



to play the record in a small window.



#### • E-Map Track View:

① Create a 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 Modify Map Delete Map	
Search	Q		
		Create Map ×	<u> 1</u>
		Map Name	
		Parent Map 🕨 1 🔹 V Map Type O Baidu Map 🐵 Picture Map	
		Map File	
		OK Cancel	
Monitoring Point	~		
Sensor	~		
Subsystem	~		
Zone	~		
Door	~		

② Search the track

Click [Play Track Line] to play track line.

Click [Playback by Tracks] to play back records as shown below.



#### 6.2.6 Configuration

#### ① Set the schedule.

Task	Link Camera to Sub-screen	Face Detect	tion Algorithm	Setting	Black and white list popBox setting Fac	e access pern	nission settir	ıg		
Task						S	chedule Set	ting		
Mor	nitoring Point	Apply					Add	Delete	Search	Q
2	default area (Online/Total nu…	Channel N…	Object Lib…	Edit	Face Capture S… 🗸 Schedule of so… 🗸		•	Schedule …	Edit	Delete
	200 (Online/Total number:… 10.100.10.75_8443_CAM001	facial ipc	1		Face Match by IPC 7*24			7*24		
	IPC							5*24		
	facial ipc nvr_IP Camera01									

#### ② Face Detection Algorithm Setting

Set the similarity of face match by default and FTP as needed.

If FTP is configured, the captured face pictures will be automatically uploaded to FTP server

Task	Link Camera to Sub-screen	Face Detection Algo	rithm Setting
Similarity	/		-
Similarity	y(%) 20		
		Refresh OK	
Send Cap	otured Pictures to FTP		
🗌 Enable	e FTP		
FTP Serve	er Address		
FTP Serv	er Port 21		
FTP File F	Path /		
C Anony	mous		
User Nan	ne Passw	ord	
		Refresh OK	

#### ③ Pop-up Window Setting

Task	Link Camera to	Sub-screen	Face Detection Algorithm Setting	Pop-up Window Setting	Face access permission setting		
Black list	Pop up	⊖ Don't pop up					
White list	Pop up	O Don't pop up	D				
Stranger	Pop up	⊃ Don't pop up					
Duration	Duration Time of VIP Box (s)      Always show      Automatically hide (after 3s)      Automatically hide (after 5s)      Automatically hide (after 10s)						
🗌 Total Pass-by(Today) 🛛 Abnormal Temp 📄 Mask Off							
Face Match(Today) BlackList Stranger							
Apply							

In this interface, you can choose whether to pop up the window when the camera detects a stranger or the person of blacklist or white list. Additionally, you can choose the duration time of VIP Box(s).

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



④ Link camera to sub-screen:

If the sub-screen is connected, the system will automatically recognize it. In this interface, you can configure cameras for face attendance and face greeting





Double click the blank area of the screen box as shown on the above left to pop up a box. Check the channel name and click 🔰 to add it.

#### 6.2.7 Face Recognition Terminal Access and Configuration

The setting steps are as follows:

1. Log in the Face Recognition Access Control Terminal (FR Terminal): If this is the first use of FR Terminal, please configure its IP address first. Click the menu icon in the bottom right corner of FR Terminal to pop up a login box. Enter the password and click [OK].


2. Modify the IP address of the FR terminal. Click Settings  $\rightarrow$  Ethernet Setting  $\rightarrow$  Ethernet IP Mode  $\rightarrow$  Static to modify IP address.

Settings Exposure Settings	Asplane mode	IP address 172.16.47.135	Ethernet lp mode	Ethernet IP address h72.16.47.135
Antibanding mode	Tethering & portable hotspot VPN	netmask 255.255.255.0 gateway 172.16.0.1	• static	Gateway 172.160.1
Ethernet Settings	Cellular networks Mobile plan	<b>dns1</b> 192.168.0.5	O dhcp	netmask 255.255.255.0 DNS 1
ViFi Settings	Network settings reset	dns2 116.116.116.116	0 0000	192.168.0.5
	Ethernet	Ethernet Ip mode static	() рррое	116.116.116.116

3. Create API in the web client of FR Terminal to get username and password.

Note: Only Google Chrome can be used to log in the FR Terminal. Please enter <u>http://ip:8081</u> in the address bar of Chrome. The default user name is admin and the default password is admin too.

Go to the API interface to create the ClientID and ClientSecret as shown below.

Self-define the ClientId and ClientSecret.

	简体 繁體 English
	Username A admin
	Password
	Change Password Login
(Q) admin	Central Management System VISPREI
<b>A</b> ≡ Staff	My Application Create
<u>بن</u> Alarm Attendance	Clientid :         ar/bc47a075ebbe9ba290225/7ac35e74         Create Time :2019-09-24 10:56:42         Delete           Clientid ::         ar/bc47a075ebbe9ba290225/7ac35e74         Application Instructions :         ClientiSecret :         3e715/29/0900006
Passage API interface Configuration	

4. Platform access:

Note: The FR terminal only can be controlled by one platform. Please do not connect one FR terminal to multiple management platforms.

Start the monitor client and then go to the "Add, Edit or Delete Device" interface. Choose "Encoding Device" and then click [Add]. Click the "Manually Add" tab to add a FR terminal. The protocol shall be "FR Terminal".

Add, Edit or Delete	Device Dev	vice Setti	ng Area Se	etting	Channel Group	o Setting							
Device Type	~	Ad	d Delete	Selec	t Area Sele	ect Trans	fer Server	Select Stora	age Server E	Batch Upgrade	for IPC	Search	Q
Encoding Device (Onl	line/Total num						А	dd Encodino	a Device				×
Decoder (Online/Tota									<u> </u>				
Intelligent Analysis Se		Quicl	kly Add Ma	anually A	dd Initiative	ly Repor	t GB28:	181 Device					
Storage Server (Onlin		IP	Address/IP Ra	ange/Don	nain Name/URL		Protocol	Port	User Name	Password	Test	Delete	
Media Transfer Serve Alarm Server (Online)			IP A	ddress:0.0	0.00		Standard N	✓ 6036	admin				
TV Wall Server (Online)							Standard .						
TV Wan Server (Offini	ey rotar numbe						Hikvision	•					
							Dahua						
							ONVIF						
							PMS						
							ATM						
							FR Termina	al					
							$\sim$						
		Select T	ransfer Server	Transfe	er Server	$\sim$	elect Stora	ige Server Sto	rage Server	$\sim$			
		Joineer 1	Select Area				Create Area		utomatically Lin		Default pas	sword OK	Cancel
			Select Area	L dela		<u> </u>				K Alea			
					Ad	d Enc	oding [	Device					×
Quickly Add	Manually	Add	Initiatively	/ Repor	t								
IP Address/	/IP Range/Do	omain I	Name/URL		Protocol	1	Port	User Name	e Passwoi	rd Te	st	Delete	
	IP Address:	0.0.0.0			FR Terminal	8	081			Te	st	Ī	
	IP Address:(	0.0.0.0		9	Standard D	. 6	036	admin	•••••				

The username must be the same with the ClientId of the FR Terminal.

The password must be the same with the ClientSecret of the FR Terminal.

Please get the ClientId and ClientSecret from the web client of the FR Terminal (See Step 3 for details).

5. Link the FR terminal to a library

(1) Add a library and create a blacklist or white list.

Go to Face Surveillance→ Object Library Management interface. Right click the intelligent server name and then click "Add" to add a library.

Protocol Type: please select FR Terminal.

Enter the library name and select the FR terminal. Then check blacklist or white list.



#### (2) Add targets

Select the library linked to the FR terminal and then click [Add Target] to add targets as shown below.



(3) Go to the web client of the FR Terminal to view whether the target pictures are added successfully.



#### (4) Face Access Permission Setting

Please enter the following interface and then click [Add User] to bind the user and face access control terminal. Drag your mouse to select the user on the left panel and then select the face access control terminal. Click 🔰 to select it. Then click [OK] to save the settings.

Task L	ink Camer	-	Face access permission added	×	Face access permission setting
Delete	Add Use	Select the target user	Select the face access guard		Search
	Edit	Search Q P R 1 - 2 - 3IP Camera01 - 5IP Camera01 - IP Camera01 - YU - facial ipc - facial ipc	Selectable Device	Selected Device	Search
		Support Ctrl multi selection		OK Cancel	

After that, the user will be listed in the table. Click 🔟 to change the face access control terminal. Click 🔟 to delete this user.

#### (5) Configure the schedule and library.

Click Face Surveillance  $\rightarrow$  Configuration  $\rightarrow$  Task to go to the Task interface as shown below. Select the FR terminal in the monitoring point list and then click  $\square$  to select the object library and alarm type. Then set the schedule and face capture source.

Fask .					
Monitoring Point  Search Q	Apply				
□ G default area (Online/Total nu…	Channel N…	Object Lib…	Edit	Face Capture S… 🗸	Schedule of so… 🗸
<ul> <li>200 (Online/Total number:…</li> <li>10.100.10.75_8443_CAM001</li> <li>IPC</li> <li>IPC</li> </ul>	10X-Y_172.1	pb		Face Match by IPC	7*24
■ 10X-Y_172.16.47.135_CAM001 Nr_IP Camera01					

The alarm type: matched or unmatched can be optional.

If "Matched" is enabled, a) when the captured face picture is successfully matched, this result will be pushed to the alarm service and then the match pictures will be shown in the Real-time View interface of Face Surveillance module; b) when the captured face picture is unsuccessfully matched, this failure result will be pushed to the alarm service and the picture will be shown in the Real-time View interface of Face Surveillance module too.

If "Unmatched" is enabled, a) when the captured face picture is successfully matched, this result will not be pushed to the alarm service; b) when the captured face picture is unsuccessfully matched, this failure result will be pushed to the alarm service and the picture will be shown in the Real-time View interface of Face Surveillance module.

If the schedule is not set, the match result will not be pushed.

(6) View the face match alarm information

After you configure the above items, you can view the alarm information in the Real-time View interface of Face Surveillance module. You can also go to the web client of FR terminal to view the alarm information.

## 6.3 Face Greeting

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

① Create an object library and add targets for this library in the VIP Management interface (See 4.2.1 Object library for details).

② Select the schedule, face capture type and face match type in the Task interface(See 4.2.2 Task Management 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.



(3) View the match result of the greeting screen. Go to Face Surveillance  $\rightarrow$  System  $\rightarrow$  Select projection compare channels to configure cameras used to compare faces. In this interface, right click on the small screen to select "Projection" to select face greeting screen. Then you will see the face display on the face greeting screen as shown on the below.

Task Link Camera to Sub-screen	Double click	the following boxes to add or modify car	meras. After these cameras used for	fac
		Face Attendance	Face Greeting	
	Screen 1	Double click to select or change chan	52_130 Device Name_IP Camera81 Device Name_IP Camera Device Name_IP Camera Device Name_IP Camera112E3 Device Name_IP Camera20A3 Device Name_IP Camera23 Device Name_IP Camera4835 Device Name_IP Camera9J TD-E10X-Y_172.16.53.240_CAM001 102	Î



#### (5) Search the face greeting records. Click "VIP Search" tab as shown below.

VIP Management Task C	Camera Deployi	ment VIP	Search [	Display Settin	g						
Counch (		2		Start T	lime 2020-	08-05 00:00:00 🗘 End	1 Time 2020-08-05 23:59:59	<u> </u>	Search		
A NVR	NO	Name	Gender	VIP Level	Registrati	Telephone	Time	Tempera	Mask Sta	Picture	Playba
	1	2	Female	Normal	2020-08-05		2020-08-05 14:11:04	36.6°C	Mask On	-	۲
	2	2	Female	Normal	2020-08-05		2020-08-05 14:53:21	36.7°C	Undetected	25	۲

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 viewed. Click 🕑 to play the record.

(5) Display Setting. In this interface, greeting screen background style, screen mode, VIP box style, face greeting language and so on can be set up.

VIP Management	Task	Camera Deployment	VIP Search	Display Setting
Greeting Screen Bac	kground St	tyle Video	✓ Screet	n Mode 1 🗸
	VIP Box St	tyle With borders 🗸		
Greet	ting Langua	age Welcome		
Max. Number of	f VIP Box (1	L-5) <u>3</u>		
Duration Time	of VIP Box	(s) 5		
I	oop Playb	ack		
Single VIP Cy	cle Time(M	lin.) 20		
Single VIP Box Size	e (ranges fr 1% to 99	om 9%) 60		

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. 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.

## 6.4 Face Attendance

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

① Click the "Staff Management" tab to create an object library and add targets for this library (See 4.2.1 Object library for details).

② Click the "Task" tab to select the schedule, face capture type and face match type (See 4.2.2 Task Management 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.



(3) View the match result of the sub-screen. Go to Face Surveillance  $\rightarrow$  System  $\rightarrow$  Select projection compare channels to configure channels used to compare faces. 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.

Task Link Camera to Sub-screen Double clic	k the following boxes to add or modify ca	meras. After these cameras used for	face
	Face Attendance	Face Greeting	
Screen 1	Double click to select or change chan	52_130 Device Name_IP Camera81 Device Name_IP Camera Device Name_IP Camera Device Name_IP Camera112E3 Device Name_IP Camera223 Device Name_IP Camera223 Device Name_IP Camera835 Device Name_IP Camera91 TD-E10X-Y_172.16.53.240_CAM001 102 9541E3 3.6mm#78	Î



6 View the attendance records. Select the target and search condition (by day, by week, by month, etc.) to search the records as below.

Staff Management Came	ra Deployment Task	Attendance Record	Working Day Setting						
Staff List	Аву	Day By Week	By Month Customize	Filter				Q	Export
Search		D Name	Department	Type of work	Staff Number	Time	Attend St Work Ove	Earliest Temperature	Latest Temper
B- facelib_anfangz KERWIN		1 KERWIN	facelib_anfangz			2020-05-22	Unrecorde Not Work	36.11°C	
3000									
Name Kill Department fa Staff Number_	ERWIN acelib_anfangz								

Click "Export" to export the attendance record. You can open the exported record file by Microsoft Excel. The earliest record and the latest record can be played by click the corresponding play button.

#### 6 Working day settings

Working Day	🖉 Mon. 🖉 Tue. 🖉 Wed. 🖉 Thu. 🖉 Fri. 🗌 Sat. 🗌 Sun.
Working Start Time	09:00:00
Lunch Time	12:00:00
Working End Time	18:00:00
Work In Out Time	20:30:00
	Apply

Please set the working day and working time as needed.

## 6.5 Line Crossing Counting

### 6.5.1 Task Management

Go to Home  $\rightarrow$  Line Crossing Counting  $\rightarrow$  Task Management. Click is to enter the following interface. Double click the camera with the line crossing counting (or target counting) function and then select the schedule. After that, click [Apply] to save the settings.

Real-time Statistics Heat	t Map Historical Statistics Flow C	Control		_ ③
Monitoring Point Search Gamma		low statistics Export	Compared to yesterday	Hum
🔲 🖬 default area (Online/		Task Management	×	
	Monitoring Point	No. IP Channel Name	Schedule 🗸 One-key .	
	Search Q □- û default area (Online/Total n gx	1 gx	7*24	c <
		<	>	
Apply		Voice alarm alert Please wait patie		> <b>`</b>
Authentication		ooo oo nana aa	Apply	17:50:02 🧕

### 6.5.2 Real-time Statistics

Go to Home  $\rightarrow$  Line Crossing 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  $\rightarrow$  Line Crossing Counting interface to set the alert line, entrance/exit, detection target, etc.

Real-time Statistics Heat Map	Histo	prical Statistics Flow Control						
Monitoring Point ∧ Search Q □ □ ∩ default area (Online/Tot □ □ □ αx		Passenger flow sta	atistics Export	Compared to yesterday	✓ Human	✓ Auto	refresh interval: 20S	v cÎ
v yt ⊽ pt		Date: 2020-08-06 Statistical type: Human Monitoring Point			Entrance: bunai Exit - Thunai	1644 1-5850	9 car 45396 bi 5 car 32127 bi	and the second se
		0	0	0	And the second second second second			
		Total NO.(IN)/Human	Compared to yesterday	Total Exiting/Human		2		
	4	Statistics of Total Traffi	ic Flow 🔹					
					Monitoring Point:pt			
					People Entry			58505
				_	Revice Entry			32127
				ЩQ	챙 Non-motor Vehicle Entry			xiting 3885
				No data				
Apply				*				

Please select the type as needed to view the flow trend. Click  $\bigcirc$  to refresh the current statistics.



Proportion of passengers entering

0.03%

99.97%

100.00%

Leave passenger flow

12

58532

58544

29271

Proportion of departure passengers

0.02%

99.98%

100.00%

Export

## 6.5.3 Heat Map

Average

Statistical name

gx

pt

Total

Proportion of people flow

Go to Home  $\rightarrow$  Line Crossing Counting  $\rightarrow$  Heat Map interface.

Out

In the passenger flow

12

46127

46139

Please create a map first.

Real-tim		E-Map	Setting		×
Мар Ма	Map Management	Create	Мар	×	
arch		Map Name 1			~ C
		Parent Map	$\sim$		
		Map Type O Google Map	Picture Map		
		Map File F:/map - EN.jpg			JT)
		Catego			
					(Inside)
			Printing Lat		
		i			g poir
					w
		ОК	Cancel		
	Monito ing Point	~			
IPC	Sersor	*			
Sensor	/				

Drag the camera with the line crossing counting function to the specified area.

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

Map Management Search Q		Flow	Summary Statistics Human	✓ Total N	Io.(IN) 🗸	Auto refres	h inter 205 V C
			5, <sup>200</sup> -1		6175 tal No.(IN)		<b>58753</b> Total No.(OUT)
				Max. Dail	<b>1</b> y Number (Ir	iside)	0 Current Number (Inside)
	1			Traffic r	anking o	o <mark>f each</mark>	monitoring point
				Ranking	Monitori	Passenge	. Preview
				1	pt	46160	$\bigcirc$
			- 10mmm	2	gx	15	
□ IPC  ☑ Smart IPC □ Sensor							

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

### 6.5.4 Historical Statistics

Go to Home  $\rightarrow$  Line Crossing 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.



### 6.5.5 Flow Control

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

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

Real-time Statistics	Heat Map	Historical Statistics	Flow Control						
Task list					Ado	d ta	sk		×
			Task name Maximum threshold Type Schedule	Task 01 10 Human 7*24					~
	U		Selectable I	Device			Selected Device		
			🔺 🔲 default area			>	default area		
L		L	🗆 gx			<	🗆 pt		
						*	<		>
			Search C	Select All	Reverse Cle	ear A	ОК	Ca	incel



- Click for modify the task.
- Click 🔟 to delete the current task.
- Click **C** to view the quantities of the people 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 inside exceed the threshold, the icon will turn red.

## 6.6 Smart Site View

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



Face Attendance Settings

- 1. Click Face Attendance  $\rightarrow$  Task  $\rightarrow$  Attendance Settings to go to the following interface.
- 2. Select the area and channel.
- 3. Select entrance or exit.
- 4. Set the task for each channel. Click the "Task" tab to select the schedule, face capture type and face match type (See 4.2.2 Task

#### Management for details).

After the face attendance settings are finished, the attendance record will be shown as follows

16:06:15 2020Year5Month20Day Wed.	Total number of workers 13 Today's attendance 1	Number of people on site           1         Number of people leaving
Latest punch	Total number of workers: 13 Image 5 1_dep 8	Today's attendance: 0 Image 1 ● 1_dep 0
Department: Image Work type: Status: Punch time: 15:23:42	Number of people on site: 0 Image 0 1_dep 0	Number of people leaving: 0 Image 0 1_dep 0 C

The descriptions of the buttons on the lower left corner

- Elick it to change the library.
- E: Click it to display full screen.
- Click it to enter the staff management interface

## 6.7 Smart View

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

Vehicle Account CAR STATISTICS	Face Count FACE OF		People Count PE	OPLE & CAR COUNTING	
0 0 0 Entry Vehicle Exit Vehicle Check Vehicle Vehicle Par	0 0/8 rked Overtime Matched/Unmatched	0 0 Control Greeter	0 141/433 Attendance Entrance: Person	152/165 n/Car Exit: Person/Car	0/0 Stay: Person/Car
Capture Stat 400 - 500 - 100 - 100 -	2020-05-20 15:50:43 2020-05-20 15:50:43 Name: Name: Snap Device:facial ipc Album: Similarity:Unmatched	2020-05-20 15:46:06 Vame: Snap Device:facial ipc Album: Similarity:Unmatched	2020-05-20 15:33:15 Name: Snap Device:facial ipc Album: Similarity:Unmatched	2020-05-20 15:31:12 Vame: Snap Device:facial ipc Album: Similarity:Unmatched	2020-05-2( Name: Snap Device:faci Album: Similarity:Un
Capture Time Capture Time Capture Time - Entry Vehicle - Exit Vehicle - Other Capture Time - Entry Vehicle - Exit Vehicle - Other Capture Time - Other Cap					

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.

# 7 Live View

## 7.1 Live View

Go to Home $\rightarrow$ Live View interface as shown below.



The descriptions of the live view buttons are as follows.



NO.	Description	NO.	Description
1	Screen display mode	6	Show the smart event detection area
2	Full screen	7	Close all preview
3	Enable/disable OSD	8	Save the current view mode
4	Enable/disable broadcast	9	Choose the camera stream
5	Manual alarm output		

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
R	Close image	8	3D zoom in
0	Start/stop recording	Ð	Zoom in

	Enable/disable audio	Θ	Zoom out
Ô	Snapshot	(I)	Fit to window
<b>O</b>	PTZ control	$\bar{\mathbf{h}}$	Enable/disable talkback
0	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.

### 7.1.1 View Mode Setting

Users can select the common display mode and self-define the display mode through the buttons on the toolbar. To customize the display mode

(1) Click 🔄 on the toolbar.



② Enter screen display name and select the display row and column. Hold the left mouse button and drag on the screen and then click [Merge] to merge the screens.

- ③ Click [Save] to save the settings.
- (4) Click [Create] to create a new display screen mode. Click [Save All] to save all customized screen display modes.

### 7.1.2 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
- 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.



### 7.1.3 Channel Group View

• 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.

- Stop Channel Group View
- (1) Place the cursor on the auto-switch window and then click  $\boxed{\mathbb{A}}$  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.



### 7.1.4 Plan View

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

					Monitoring Po	vint v	Monitoring Point	~
					Channel Group	) ×	Channel Group	~
					View	^	View	^
		Ame Home	Live View <u>1</u> *	+	Live View <sup>1</sup>	Create View	123456 view1*	
Monitoring Point	~					Acdifu View		Create View
Channel Group	~					Modify View		Save View
	~				[	Delete View		Modify View
Eive 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.

## 7.2 View Control

#### • Multi-screen Display

In the live view interface, the screen display mode can be selected as shown below.

	Standard Screen Mode:
	1 -4 - 6 - 8 -9 - 10 - 13
	16- 17- 21- 25- 33- 36-
N.	Wide Screen Mode:
	2 4 6 7 9 12 16
	24 36
	Customize Screen Mode:
1 -4 -9 -16 -25 -36	

#### • Full Screen Display

In the live view interface, click 🛄 button on the toolbar or right click on the mouse to select "Full Screen" to display the window in full screen mode. Right click on the mouse to select "Exit Full Screen" on the full screen interface to exit full screen.

#### • Single Channel Display

Double click a window to view in single channel mode. Double click the window again to recover the window.

Audio Broadcast

Click (1) to bring audio broadcast box as shown below.

The left device list shows the devices that support audio broadcast. Check the device and click [Add] to add the desired broadcast device. Click [Start Broadcast] and then all added device will start broadcast. Select the added device and click [Delete] to delete the device.

#### • Stream Setting

Right click on the live view window to choose video stream. Or select self-adaptive stream or other stream on the toolbar to set the stream for all channels.

#### To set streams

Go to Home→ Device Setting. Select the device and click "Stream Setting" tab to set streams.

Audio Control

Right click on the live view window and then choose "Audio On" or click **S** on the toolbar of the window to enable audio. **Note**: Only one audio can be enabled at the same time. If the audio of one channel is enabled, the former audio will be disabled automatically.

• Zoom In or Out

In the live view interface, click on the live view window to zoom in the window and then drag the image to view the whole image; click to zoom out the image; click to restore the image size.



## 7.3 Snapshot

Select a window in which the video is playing and then click 🖸 on the toolbar of this window or right click on the window and then select "Snapshot". The image number and storage path will be displayed.

Note: Only when the video is playing in the window, will the snapshot succeed.



The snapshot will be saved in the Mini CMS Server by default. A maximum of 100 snapshots can be saved. If more than 100 pictures are captured, some previous snapshots will be overwritten.

## 7.4 Multi-Screen View

In the live view 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.



## 7.5 Talkback

In a live view window, click 💟 on the toolbar of this window or select "Start Talkback" on the pop-up menu by right clicking to enable talkback.

Note: Since the software only allows enabling one device's talk at the same time, the system will stop talking with the current device if a new talk is enabled.



## 7.6 PTZ Control

Click corright 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.



## 7.7 Audio Broadcast

Click (I) to pop up an "Audio Broadcast" interface as shown below.



Check the left device and then click "Add" to add the device you want to broadcast.

Check the added camera on the right and then click "Start Broadcast".

Click i to delete the added device.

Choose multiple devices and then click "Remove" to delete them at a time.

# 8 Record & Playback

## 8.1 Record Configuration

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

### 8.1.1 Manual Recording

In the live view interface, select a channel and then click or right click to select "Start record" to start recording. Click this button again to stop recording.

Note: If a channel is recording, the recording will stop when the viewing window is closed.

### 8.1.2 Schedule Recording

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

Record Setting Schedule Setting											
Area	^	Channel Name	Stream T	✓ Record ✓							
Search	Q	2MP A3FR-107	Main Strea 🗸	OFF							
		A3H-2MP-20-210	Main Strean	OFF							
		IPC	Sub Stream Third Stream	OFF							

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

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

Add     Delete       Schedule     Edit     Delete       7*24     IIII       5*24     IIII	Record Setting Schedule Setting									
	Add Delete									
		Schedule	Edit	Delete						
5*24		7*24								
		5*24								

- 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.

										M	lodi	fy S	Scheo	dule	9						×
Sched	uleNan	ne 1														Ø	Input	Manually	Select	All Reverse	Clear All
Sun,	0 0 04:39-	- 16:1	 2   5	I	4		6	1	8	1	10 		 12 	1	 14 	1	16 Input	18 Manually	20   Select	22 All Reverse	24 I Clear All
Mon,	0 	1	 2 	I	4	1	 6 	1	8	1	 10 	1	 12 	1	 14 	1	16 Input	18 Manually	20   Select	22 All Reverse	24 I Clear All
Tue,	0		 2 	1	4	1	 6 	1	8	1	10 	1	 12 	1	 14 	1	16 Input	18 Manually	20   Select	22 All Reverse	24 I Clear All
Wed,	0 	I	 2 	I	4	1	 6 	1	8	1	 10 	1	 12 	1	 14 	1	16 Input	18 Manually	20   Select	22 All Reverse	24 I Clear All
Thu,	0 	1	 2 	1	4	1	 6 	1	8	1	10 	1	 12 	1	 14 	1	16 Input	18 Manually	20   Select	22 All Reverse	24 I Clear All
Fri,	0 	1	 2 	1	4	1	 6 	1	8	1	10 	1	 12 	1	 14 	1	16 Input	18 Manually	20   Select	22 All Reverse	24 I Clear All
Sat,	0     04:06-	-16:5	 2   9	I	4	1	 6 	1	8	1	 10 	1	 12 	1	 14 	1	16 Input	18 Manually	20   Select	22 All Reverse	24 I Clear All
							OK										Cancel				

### 8.1.3 Alarm Linkage Recording

(1) Go to Home  $\rightarrow$  Device Setting interface. Select the desired device to enable 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 Type Channel-Motion D	etection	V All	ON All OF	F Reset	Apply					
Search a default area	Q	Name	Audio	✓ PTZ Control ∽	Record V	Alarm View 💊	Snapshot 🗸	Alarm Output	Voice Broa… 🗸	✓ TV Wall 〜	🗸 Schedule 🗸	
Celault area		10.100.10.75_8443_CAM001	$\checkmark$ OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		IPC	✓ ON	ON	ON	ON	ON	ON	ON	ON	OFF	
		IPC	V OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	

## 8.2 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 two types of record playback: synchronous playback and asynchronous 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
R	Stop viewing	Q	Zoom in
	Audio on/off	Ø	Zoom out
Ó	Snapshot	0	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
	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.
305 305	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
×	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  $\triangleright$  to play.

Playback record type includes manual recording, motion detection recording, schedule recording, sensor recording, object removal recording, video exception recording, intrusion recording and line crossing recording 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.

### 8.2.1 Instant Playback

#### 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).



### 8.2.2 Synchronous Playback

**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.

$\langle$	07-30 00:00						15:28:47 16:00				07-31
Window	/1										<u>^</u>
Window											
Window	/3						2018-07-30	15:27:30			
Window										Ð	Q 24 ~
	Manual	Schedule	📃 Video Analysi	s 📃 Motion Detect	ion 🛛 📕 Sensor	📃 Smart Event	📃 Line Cros	sing Counting	Behavior	Analysis	Face Match

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.

### 8.2.3 Asynchronous Playback

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.



### 8.2.4 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].

By Time Slice By Event By Tag Backup	Search Picture		
Monitoring Point	Slice Per Day Backup		
Search Q □	1	2	3
	2019-08-22 17:20:22		
Start Time: 2019-08-22			~
Search			Current Page:1 / 1,Total 1 🛛 🗮 🕨 🕨

③ Click **b** to play the record.



Click Dubte on the top right corner to play in full screen mode. Double click the image to switch to slice search mode by day. In the above interface, click is to switch to slice search mode by hour.

By Time Slice By Event By Tag Backup	Search Picture			
Monitoring Point	Slice Per Hour Backup			
Search Q B: Co default area (Online/Total number:1/1) - 4=02		2	3	4
Start Time: 2019-08-22 💬 End Time: 2019-08-22 😥	2019-08-22 17:20:22			Ţ
Search				Current Page:1 / 1,Total 1  ◀ ◀ ▶ ▶

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Double click an image to switch to slice search mode by 5 minutes. Click in to return to slice search mode by day;

By Time Slice By Event	By Tag Backup	Search Picture			
Monitoring Point	~	Slice Per 5 Min Backup			
Search	Q	1	2	3	4
B	number:1/1)	2019-08-22 17:20:22			
Start Time: 2019- End Time: 2019-					
	Search				Current Page:1 / 1,Total 1

In the above interface, click it to return to slice search mode by hour.

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

### 8.2.5 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.

By Time Slice By Event By Tag Monitoring Point	g Backup Filter	Search Picture	Q Before t	ne event 0 Sec			Tip1: Pr	ess [Ctrl] or [Shift] or [Mouse Button] to select multiple item:
Search Q	No.	Name	Start Time	End Time	Duration	Туре	Playback	Backup
<ul> <li>A default area (Online/Total number:</li> <li>200 (Online/Total number:</li> <li>10.100.10.75_8443_CAM001</li> <li>IPC</li> <li>IPC</li> </ul>	1	facial ipc	2020-05-20 00:00:00	2020-05-20 11:11:04	11:11:4	Schedule	۲	۲
<ul> <li>► IPC</li> <li><u>facial ipc</u></li> <li>■ nvr_IP Camera01</li> </ul>								
art Time: 2020-05-20 00:00:00								
	Manual	Video Analysis	Sensor Line Cros	sing Counting 🛛 Face Ma	itch			Current Page:1 / 1,Total 1 ┥ 帐 🕨

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

### 8.2.6 Playback by Tag

- 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.
- ③ Go to Home  $\rightarrow$  By Tag interface. Select the start time and click [Refresh] to search the added tags.
- ④ Click D in the playback column to play the record.



## 8.3 Backup

In the main menu interface, click "Backup" to go to the backup interface. The setting steps are as follows:

- ① Select the desired monitoring point.
- ② Select date and click "More" to select the start and the end time and event type.
- 3 Click to get records from device or storage server.
- ④ Set the start time and the end time of backup. Then click [Backup].
- (5) The backup progress will be seen during backing up the record. Click in to pause; click is to stop backing up the record; click to clear the backup list.

By Time Slice By Event By Tag Backup	Sear	rch Picti						C 06-22 (179700)	08-23
Monitoring Point ^	<			ug 201			►	(C)         08-22         17/22/00           (Q)         00:00         02:00         04:00         06:00         08:00         10:00         12:00         14:00         16:00         18:00         20:00         2:	00 00:00
Search Q	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Chunali	
□  default area (Online/Total number:1/1)	29	30		1	2	3	4		
4-02	5	6	7	8	9	10	11		
	12	13	14	15	16	17	18		
	19	20	21	22	23	24	25		
	26	27	28	29	30	31			
			4		6		8		
				More ≈				Start Time 2019-08-22 17:23:00 🗢 End Time 2019-08-22 17:23:00 🗢 Backup Backup Path	Backup on device
	No.		Ch	annel			Start Ti	ne End Time Duration Progress Operation	
) Search								,	. 11 🔳 前

"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 will be backed up to the USB storage device remotely.

## 8.4 Search Picture

In this interface, pictures stored on the SD card or storage server can be searched and viewed.



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

#### **Alarm Management** 9

#### 9.1 **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→Add, Edit or Delete Device →Alarm Server interface to view the online status of the alarm server. If it is not online, please

check its network connection.

Device Type	Server Name	IP Address	Port	Client Co	Authentic	Edit
Encoding Device (Online/Total numb	e Alarm Server	10.20.52.7	6033	Online	Online	
Decoder (Online/Total number:0/0)						
Intelligent Analysis Server (Online/To	ie -					
Storage Server (Online/Total number	1					
Media Transfer Server (Online/Total r	u .					
Alarm Server (Online/Total number:1,	1-					
TV Wall Server (Online/Total number:	1					

Click Click to modify the added alarm server; click to delete the added alarm server.

## 9.2 Alarm Configuration

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



Select the desired device to enable alarms (refer to the user manual of the corresponding device for the detailed settings). (2) Go to Home $\rightarrow$ Alarm Center $\rightarrow$ Alarm Linkage interface.

Alarm Log Alarm Linkage	Sch	nedule Setting Manual Alari	n Ou	t SOP Settin	g																
Area	^	Alarm Type Channel-Motion [	etec	tion		V All o	ON	All	OF	F Reset		Apply									Q
Search	Q	Name		Audio 🗸	P	TZ Control 🗸		Record	~	Alarm View 🗸	/	Snapshot 🗸	1	Alarm Output 🗸	Voice Broa… 🗸	TV W	all -	✓ Sche	dule	~	
B: default area		10.100.10.75_8443_CAM001	$\sim$	OFF	OF	F	OF	F		OFF	0	FF	0	DFF	OFF	OFF		OFF			
		IPC	~	ON	10	4	ON	4		ON	0	N	0	N	ON	ON		OFF			
		IPC	$\sim$	OFF	OF	F	OF	F		OFF	0	FF	0	DFF	OFF	OFF		OFF			
		IPC	~	OFF	OF	F	OF	F		OFF	0	FF	0	DFF	OFF	OFF		OFF			
		facial ipc	~	ON	10	4	ON	1		ON	0	N	0	DN	ON	ON		OFF			
		nvr_IP Camera01	~	OFF	OF	F	OF	F		OFF	0	FF	0	DFF	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).

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

1(11)_IPC134424	44 🗸	ON	ON	ON	ON	ON	ON	ON	OFF
1(31)_name	ON	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF
1(48)_name	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF

Select 🗡 beside the title (like record) to enable record linkage of all devices (schedule excluded).

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.

TV WallLinkage Setting			×
Selectable Channel		Selected Channel	TV Wa
🔺 🔲 default area	>	🔺 🔲 default area	
□ 172.16.47.109_3	<	□ 10.100.10.214_8	TV Wall 1
28138			
□ E3-47.71			
IP Camera01			
IP Camera12	>>		
IPC	~		
🗆 qiuji88			
< <b></b> >		<	>
ON Q Select All Reverse	Cle	ear All OK	Cancel

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

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

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).

#### **Manual Alarm Out:**

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

Alarm Log Alarm Linkage	Schedule Setting	Manual Alarm Out	SOP Setting
Alarm Output	~		
<ul> <li>default area</li> <li>200</li> </ul>	Trigge	er Alarm Out	Close Alarm Out
<ul> <li>IPC_AlarmOut1</li> <li>IPC_AlarmOut1</li> </ul>			

Select the camera 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.

### 9.3 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. A maximum of 10 SOP can be added.
- 2. Click "Create" to create a SOP action. Each SOP can create 5 SOP actions.
- 3. Click  $\stackrel{99+}{\blacksquare}$  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 1 B 2 Create Delete Alarm Handle SOP ×	
- SOP2 - SOP2 - Index Edit Delete Atam Time: 2020-05-20 11:19:15 Alarm Resource: IPC Atam	
Index Operation Action Handle St Handle Time	
SOP Action Input less than or equal to 64 cha	
OK Cancel 2 2	
Save process Disposition False Alarm	
Input liess than or equal to 100 characters	
Remark	
Save _	
🛛 Device Alarm 🖉 Channel Alarm 🖗 Sensor Alarm 🖉 Offline Alarm 🖉 Server Alarm	Alarm Number:1000 🛛 😸
Alarm Time Alarm Resource Alarm Type Storage PI Device PI Storage S Device Ca Alarm Pro_Handling Disposition Remark	Î
2020-05-2011:19:15 IPC Channel-··· 4	
2020-05-20 11:19:09 facial ipc Channel	
2020-05-2011:19:01 facial ipc Channel F····	
2020-05-2011:1848 facial ipc Channel	3
2020-05-20 11:18:23 IPC Channel-··· / //	

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

🗹 Device Alarm 🛛 Cha	annel Alarm 🛛 Sensor Alarm 🖉 Off	line Alarm 🛛	Server Alar	m						
Alarm Time	Alarm Resource	Alarm Type	Storage Pl…	Device Pl…	Storage S…	Device Ca…	Alarm Pro…	Handling …	Disposition	Remark
2020-05-20 11:29:55	IPC	Channel						Processed	False Alarm	
2020-05-20 11:29:20	facial ipc	Channel								
2020-05-20 11:29:18	IPC	Channel								

If you create more than one SOP, you can designate the SOP for the added encoding devices. Go to Home  $\rightarrow$  Resource Management  $\rightarrow$  Add, Edit or Delete Device  $\rightarrow$  Encoding Device interface. Then click [Select SOP] to select the SOP and encoding devices.

	^	Add	Delete	Select Ar	ea Select Transfer Server	Select Storage Server	Batch Upgrade for IPC	Batch Upgrade fo	or ANPR Camera	Select SOP
Encoding Device (Online/Total nur			Edit	≜ D		Select SC	OP	×	g Port	Select Area
Decoder (Online/Total number:0/0 LED Display Device (Online/Total r					Select SOP SOP1			~	6036	default area
ntelligent Analysis Server (Online) Storage Server (Online/Total numl					Selectable Device		Selected Device		6036	
Media Transfer Server (Online/Tota		$\checkmark$			🔺 🔲 default area		🖌 🗌 default area		5 9008	default area
Alarm Server (Online/Total numbe IV Wall Server (Online/Total numb					0 10.100.10.75_8443	Þ	□ IPC	4	4 9008	default area
wait Server (Ontine/Total humi	er.1/				Device Name	<	IPC		9008	default area
				10.1					8443	default area
					🔲 facial ipc				9008	default area
					🗆 nvr					
						» «				
6										
🖉 Device Alarm 🗹 Channel Alai	m 🗹	Sensor Al	arm 🖌 Of	ffline Alarm		<b></b>				
Alarm Time	Alarn	n Resourc	e	Alarm Ty		t All Reverse Clear All	ок	Cancel		

Select the SOP. Then check the desired device and click to select it. Finally, click [OK] to save the settings. After that, you can choose the corresponding SOP action when you handle the alarm of the camera.

## 9.4 Alarm View

Having set the alarm preview linkage, the alarm view window will prompt when an alarm is triggered.

		/19/2019 16:49:53						
Clear List 🖉 Device Ala	arm 🧭 Channel Alarm 🐼 Sensor	Alarm <table-cell> Offline Alarm 🐷 Server Alar</table-cell>	m				Unhandled Alar	m Number:201
Clear List Ø Device Ala Alarm Time	arm 🐷 Channel Alarm 🐷 Sensor Alarm Resource	Alarm 🗹 Offline Alarm 🐷 Server Alar Alarm Type		Snapshot	Delete	Handling	Unhandled Alar	m Number:201
		1		Snapshot	Delete	Handling Unprocess	Unhandled Alar	~
Alarm Time	Alarm Resource	Alarm Type		Snapshot			Unhandled Alar	~
Alarm Time 2019-06-19 16:49:43	Alarm Resource IPC	Alarm Type Channel-Face Detection	Record Pl		Ū	Unprocess	Unhandled Alar	~
Alarm Time 2019-06-19 16:49:43 2019-06-19 16:48:08	Alarm Resource IPC 2MP A3FR-107	Alarm Type Channel-Face Detection Channel-Motion Detection	Record Pl	~	Ū Ū	Unprocess Unprocess	Unhandled Alari	~

Click on the bottom right corner to expand the alarm list as shown above. Hover the mouse over the top of the alarm list and then a bidirectional arrow will appear. Drag the alarm list up or down to zoom in or out the alarm list.

Click	ig)	or	~~	to play the record or captured images; click	to delete alarm information.

	Snapshot Search	×
Monitoring Point	Search Result[2MP A3FR-107]	
2MP A3FR-107           Start Time           2019-06-19 16:44:06	2019-06-19 16:45:06	Î
End Time 2019-06-19 16:46:06 -		~
Search	Select All Reverse Download   4 4 The 1 /1Page >>>   Per Page 10 > Entry 1-1 Total Entries	:1

## 9.5 Alarm Log

Alarm logs can be searched and exported by going to Home→Alarm Center→Alarm Log interface.

Alarm Log		Schedule Setting Manual Alarm	Out SOP Setting Search Export								
No.	Alarm Time	Alarm Resource		tails Storage Pl…	Device Pl…	Storage S…	Device Ca…	Alarm Pro…	Handling …	Disposition	Rema
1	2020-05-20 11:49:10	IPC	Channel								
2	2020-05-20 11:49:08	facial ipc	Channel								
3	2020-05-20 11:48:51	facial ipc	Channel								
4	2020-05-20 11:48:15	facial ipc	Channel								
5	2020-05-20 11:48:06	IPC	Channel								
6	2020-05-20 11:48:04	facial ipc	Channel								
7	2020-05-20 11:47:44	IPC	Channel								
8	2020-05-20 11:47:35	facial ipc	Channel								
9	2020-05-20 11:47:15	facial ipc	Channel								
10	2020-05-20 11:46:54	IPC	Channel								
11	2020-05-20 11:46:53	facial ipc	Channel								
12	2020-05-20 11:46:32	facial ipc	Channel								

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

Snapshot Search					
Monitoring Point ^	Search Result[2MP A3FR-107]				
2MP A3FR-107	2019-06-19 16:49:44				
Start Time         2019-06-19 16:48:45           End Time         2019-06-19 16:50:45		~			
Search	Select All Reverse Download I I The 1 /1Page >>> Per Page 10 >> Entry 1-1 Total Entries :	1			
## 10 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.

### **10.1 E-Map Settings**

#### 10.1.1 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.

#### 10.1.2 Add Hotspot

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



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

#### 10.1.3 E-Map Monitoring

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



Alarm view: if you select "Yes", the monitoring video will automatically pop up on the right window when an alarm is triggered.

## 11 TV Wall

### 11.1 Add TV Wall Server

Go to Home  $\rightarrow$  Add, Edit or Delete Device  $\rightarrow$  TV Wall Server interface as shown below.

Add, Edit or Delete Device Device	Setting	Area Setting Cha	nnel Group Setting						
Device Type	Add	Delete							Search
Encoding Device (Online/Total number: Decoder (Online/Total number:0/0)		Server Name +	IP Address	Port	Client Con…	Authentic…	Edit	Delete	
LED Display Device (Online/Total numb		TV wall	10.20.52.152	6036	Online	Online		Ī	
Intelligent Analysis Server (Online/Tota									
Storage Server (Online/Total number:1/									
Media Transfer Server (Online/Total nur									
Alarm Server (Online/Total number:1/1									
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.

Click to modify the added server; click to delete the added server.

### 11.2 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 Device	Device Setting	Area Setting Cl	hannel Group Setting						
Device Type	Add	Delete							Search
Encoding Device (Online/Total nur	mber								
Decoder (Online/Total number:0/0	0)			Add D					×
LED Display Device (Online/Total r Intelligent Analysis Server (Online	Ouickly A	idd Minually A	vdd				Device Q	uantity:0	Refresh
Storage Server (Online/Total num		Device ···*	IP Address	Port	Subnet Mask	Version	Device ID		
Media Transfer Server (Online/Tot	al nu								
Alarm Server (Online/Total numbe	er:1/1								
TV Wall Server (Online/Total numb	ber:1,								

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

#### 11.2.1 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 🗸	
User Permission	Master 🗸	
Device Name	Decoder	
MAC	00:18:AE:00:45:D1	
Soft Version	2.1.0.12	
Version Date	20181214	
Kernel Version	I9F6-I9F6-I9F6	
		Apply

After that, go to Home→TV Wall Management→TV Wall System Setting→Decoder Bind Configuration. Then click 100 to bind

decoder and TV wall (See Decoder Bind for details).

## **11.3 TV Wall Management**

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

TV Wall Setting	TV Wall View	Task Setting	Tvwall System Setting						
TV Wall	^								
TVWall Server Unit	+								
Decoder Output									
			Authentication Server Address:172.16.49.17	Port:6003	User Name:admin	CPU:3%	Memory:64%	2018-07-31 09:40:17	23

#### 11.3.1 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	TV224 Create TV Wall3						
TVWall Server Unit +	Initialize Merge Save	TV Wall 🔷	TV224 Create TV Wall3				
■ TV224(1) 🕑 🗊		▲ TWWat Server Unit + Initialize Merge Serve					
🔳 TV225(2) 🛛 🖄 🗐		🔳 TV224(3) 🛛 🖄 🗑					
Create TV Wall. 🙆 🗎		🔳 TV225(2) 🛛 🖹					
		🔲 Create TV Wall 😢 🗎					
Decoder Output							
1 5121650.224		Decoder Output					
✓ Output1		a 👩 172.14.50.224					
✓ Output2		✓ Output1 E ✓ Output2 E					
172.16.50.225							
Output1		⊿ @ 172.1638.225 Output1 ☑					
		uniper C					

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



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.

TV Wall A TV224 Create TV Wall3								
TVWall Server Unit	+	Initialize Save						
TV224(1)								
<ul> <li>IV225(2)</li> <li>Create TV</li> </ul>								
Create IV		Output1	Output2					
		Output3	Output4					
Decoder Outpu	t ^							
a 👝 172.16.50.224								
✓ Output1	ß							
✓ Output2	ß							
a 🗂 172.16.50.225								
Output1	ß							
Output2	ß							
Output3	ß							
🗹 Output4	ß							

To modify TV wall:

Click Seide the TV wall name, enter the new name and then click [OK].

	TV Wall			^	TV Wall 1
4	TV Wall Server		+		Initialize
	IV Wall 1	1)	C ii		1
	🔳 TV Wall 2(	2)	C ii		
	🔳 TV Wall 3(	3)	C ii		
					De la compañía de la comp
		E	dit TV Wall		×
		TV Wall Server	TV Wall	Serve	er
		TV Wall TV V	Wall 1		
		TV Wall Number	1		
		🗌 Edit ID	C	)K	Cancel

To delete TV wall :

Click behind the TV wall name.

TV Wall	^	TV224 🛛 Create TV Wall3	×		
TVWall Server Unit	+	Initialize Save			
III TV224(1)					
■ TV225(2)					
🔳 Create TV	CÓ	Output1	Output2		
			Question		
				-	
			www.to.doloto.TV/M(oll2		
		Are you	sure to delete TV Wall?		
Decoder Output	t 🔨		ОК	Cancel	
4 🗂 172.16.50.224					

#### • Decoder Bind

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 Task Setting TV Wall System Setting							
Channel Number Setting Decoder Bind Configuration							
Device Name	Output N	IP Address	Port	Online St	Select TV Wall	Open in t	Edit
Decoder1	2	172.16.47.202	8888	Online	TV Wall 1	•••	

# Click ochange bound TV Wall.

Channel Nun	nber Setting	Decoder Bind Co	onfiguration				
Device Name	Output N	IP Address	Port	Online St	Select TV Wall	Open in t	Edit
Decoder1	2	172.16.47.202	8888	Online	TV Wall 1	····	
					Change Boun	d TV Wall	×
				Select	TV Wall TV Wall	1	~
					OK TV Wall		
					TV Wall	3	
Channel Nur	nber Setting	Decoder Bind C	onfiguration				
Device Name	Output N	IP Address	Port	Online St	Select TV Wall	Open in t	Edit
Decoder1	2	172.16.47.202	8888	Online	TV Wall 2		
Add, Edit or Delete	Device Device	e Setting Area Setting	Channel Group	o Setting			
Device Type	A	Add Delete					
Encoding Device (On Decoder (Online/Tota		Device Name	Output N	IP Address	Port Online St	Open in t Edi	
		Decoder1	2	172.16.47.202	8888 Online		j 🔟

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       TV Wall 1       TV Wall 2         TV Wall 1(1)       Imitialize Save         TV Wall 3(3)       Imitialize Save         TV Wall 3(3)       Imitialize Save         Decoder Output       Output2         Imitialize Save       Decoder1         Decoder1       Decoder1         Imitialize Save       Decoder1	TV Wall Setting TV Wall View	Task Setting	TV Wall System Setting	
Image: contrast of the second seco	TV Wall	^	TV Wall 1 🔟 TV Wall 2 🛛	
Image: TV Wall 3(3)       Image: TV Wall 3(3)         Image: TV Wall 3(3)       Image: TV Wall 3(3) <td>TV Wall Server</td> <td>+</td> <td>Initialize Save</td> <td></td>	TV Wall Server	+	Initialize Save	
	TV Wall 1(1)	CÎ		[
Decoder Output     Output2	IV Wall 2(2)			
Decoder1 Decoder1 popopopopopopopopopoloki	IV Wall 3(3)	CÎ		
Decoder Output			popopopopopopopopopoloki	
Decoder Output     Output2				
Decoder Output				
Decoder1     popopopopopopopopoloki			Decoder1	
Decoder1     popopopopopopopoloki				
Decoder1     popopopopopopopopoloki				
Decoder1     popopopopopopopopoloki				
		^	Output2	
	🔺 릂 Decoderl			
Cutput2 16 Decoder1	,			
	✓ Output2	6	Decoder1	

#### 11.3.2 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.

Create Plan ×							
Plan Name 1_Plan_1							
Plan No. 1							
Edit ID OK Cance							

#### ♦ Configure Plan

Double click the plan name to show the plan.

TV Wall Setting	TV Wall View	Task Setting	Tvwall Syst	em Se	tting
Monitoring Poin	Preview				
Decorder Input	~				
TV Wall Plan	^				
📾 Create TV Wall1 📾 Create TV Wall2		Creat	te Plan	×	
		Plan Name 1_P	lan_1		
		Plan No. 1			
		🔲 Edit ID	OK Ca	ncel	

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



Toolbar Menu



- 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.

* 1_Plan_1 🛛				
			<b>0</b> 1	
	×			
	7			
			1	
			<b>8</b>	
			4	
~				Auto
1 -4 -9 -15 -25 -36 (	Disable PIP	Hide ID	Sav	e Save as

- 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.

Double click a window to play the video.

Y225_1 🗷 Create Plan_1 🛛		
172.16.51.17	2	हेत हैत हैत 34 5
\$ 6	<b>5</b> 7	- 1721651.17 X
	12	
16	<b>5</b> 17	18 19 20

#### Right-click Menu



- 1. Screen mode: 1/4/9/16/25/36 screen mode is optional.
- 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→ Alarm Center→Alarm Linkage (or Home→Alarm System→Alarm Linkage) interface. Select TV wall linkage item to set alarm linkage.



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.



- ♦ 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 -49- 16- 25 -36- Enable PIP	
00:00:00	1 4 9 16 25 36 Enable PIP

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

Create Auto-	Switch Group ×
Auto-Switch Name New_Group_Dwell	Dwell Interval(s) 10 V
Auto-Switch Window Monitoring Point	
1 5	
67	2
3 8	
9 10	4
	OK Cance

(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.

$\otimes$		
New_Group_Dwe	ell	
	Modify	_
	Delete	

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].

Decoder Input	~	Auto-Switch Setting			
TV Wall Plan	^	No.	Plan Name	Move Up	Operation
I 📠 TV Wall 1 (1)	+ ) 💿 🔪	1	1_Pan_3 (3)	÷	Join in
11 1_Pan_3(3)	C T	3	1_Plan_1 (1)	+	Join in
1_Plan_1(1)	C ii	2	1_Plan_2 (2)	+	Join in
1_Plan_2(2)	C ii				
📥 TV Wall 2 (2)	$+ \rightarrow \diamond$				
📥 TV Wall 3 (3)	$+ \cdot \circ$				
				G	
From	2019-10-08 00:00:00 😌	Dwell Interval(s)	10 🗸		Save Cano

2.Start/stop auto-switch

4	🗂 TV225 (2)	+ • •
	¥225	Start Auto-Switch

Click **b** 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.

#### 11.3.3 Decoder Input

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



#### 11.3.4 Playback

• Playback on TV Wall

Click "Preview" on the left panel. Then this button becomes "Playback". Click Let to get records from device or storage server and then click "OK" to search records, or 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		
49.82 400 49.82 400	Screen Mode  Coom Out	5
	Set as Alarm Window	
	Set as Preview Window	Recent Channel
	Stop Decoding	Historical Channel
	View Decoder Output Info.	7
	Clear TV Wall	

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

The following picture is an example of TV Wall.



#### 11.3.5 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.

New Plan Task Create Plan_1 Start Time: 00:00:00				
✓ Sun. ✓ Thu.	✓ Au ✓ Mon. ✓ Fri.	uto Run ✓ Tue. ✓ Sat.	✔ Wed.	
	2			

Click or to modify or delete the task.

Click which the TV wall name and then click [OK] to confirm the deletion.



#### 11.3.6 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 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.

		nfiguration		
Monitoring Point ^	No.	Name	Channel Number	Conflicts Between Channels' Number
arch Q default area (Online/Tot	·	ault area>A3H-2MP-20-210	1	
■ 2MP A3FR-107	2 def	ault area>2MP A3FR-107	1	A3H-2MP-20-210
A3H-2MP-20-210				2MP A3FR-107

## 12 Account and Permission

#### **12.1 Create Account**

Go to Home  $\rightarrow$  Account and Permission.

Add Delete				User Account Setting User Permission Group Setting				
					Delete	Add		
Account Enabled Select Permission Group MAC Address Bind MA Edit Delet	C Address Bind MA Edit Delete	MAC Address	Select Permission Group	Enabled	Account			
admin ON Super Administrator 00:00:00:00:00 OFF	:00:00:00 OFF	00:00:00:00:00	Super Administrator	ON	admin			

There is a default super admin user (the username is admin; the password is 123456). The super admin user cannot be deleted. Click [Add] to prompt an adding user window as shown below.

	Add User	×
Enable	$\checkmark$	
User Name*	1	
Old Password*	Enter Password	
Password*	123456	
Confirm Password*	123456	
Display Password	$\checkmark$	
Permission Group*	✓	
Bind MAC Address		
Remark		
ОК	Cancel	

Enter user name and password. Then select permission group (it must be set in advance). Binding MAC address or remark can be filled in as needed. After that, click [OK] to save.

Click to modify the added user; click to delete the added user.

### **12.2 User Permission Settings**

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

① Click [Add] to create permission group.

User Account Setting User Permission	Group Setti	ing			
Add Delete			Add Permission Group		×
Permissio…		Permission Group Name			
test1 Resource Manager	nent,Server				inting,Fa
🗆 admin		System Permission Operation	on Permission Area Permission TV Wall P	Permission	
		Select All Reverse Clear All			
		Resource Management	Server Management	Record Setting	
		Alarm Management	Account and Permission	🔲 Е-Мар	
	\$	TV Wall Management	Parking Lot Management	Local Configuration	
		Line Crossing Counting	Face Surveillance	Face Greeting	
		E Face Attendance			

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

Click low to modify the permission group; click to delete the permission group.

## 13 Operation and Maintenance Management

### 13.1 Check and Export Log

Go to Home→Operation and Maintenance Management.

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

All Types	Alarm Log	Operation Log Config L	og Exception Log					
tart Time 🙎	019-06-19 00:00:00 🔶	End Time 2019-06-19 23:59:59	Search Export					
No.	Main Type	Record Time	Node Name	Sub Type 🗸 🗸	User Name	User Address	Details	Record
1	Alarm Log	2019-06-19 17:28:25	IPC	Channel-Face Det	None	None		
2	Alarm Log	2019-06-19 17:28:07	IPC	Channel-Face Det	None	None		
3	Alarm Log	2019-06-19 17:27:41	IPC	Channel-Face Det	None	None		
4	Alarm Log	2019-06-19 17:27:12	IPC	Channel-Face Det	None	None		
5	Alarm Log	2019-06-19 17:26:33	IPC	Channel-Face Det	None	None		
6	Alarm Log	2019-06-19 17:26:22	A3H-2MP-20-210	Channel Offline	None	None		
7	Alarm Log	2019-06-19 17:26:22	A3H-2MP-20-210	Encoder-Offline A	None	None		
8	Alarm Log	2019-06-19 17:26:12	2MP A3FR-107	Channel-Motion	None	None		
9	Alarm Log	2019-06-19 17:26:12	2MP A3FR-107	Channel-Face Det	None	None		
10	Alarm Log	2019-06-19 17:25:12	IPC	Channel-Face Det	None	None		
11	Alarm Log	2019-06-19 17:24:41	IPC	Channel-Face Det	None	None		
12	Alarm Log	2019-06-19 17:24:25	IPC	Channel-Face Det	None	None		
13	Alarm Log	2019-06-19 17:23:29	2MP A3FR-107	Channel-Motion	None	None		
14	Alarm Log	2019-06-19 17:23:29	2MP A3FR-107	Channel-Face Det	None	None		
47	A1	2010 06 10 17:22:54	TOC	olimit riti bit	A1	81		

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.

### **13.2 Backup and Restore Configuration**

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

Check and Export Log	Backup and Restore Configuration Online Status Status Log
Backup System Configu	Restore System Configuration
	ing system configuration takes about a few minutes. After restoring, the management server will restart down the management server while restoring.

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.

### **13.3 Viewing Online Status**

Go to Home→Operation and Maintenance Management→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	Backu	up and Restore Configu	ration Online Statu	s Status	Log					
Encoding Device Online Status <b>100%</b> Online: 4 Offline: 0		Decoder Online Status 100% Online: 0 Offline: 0	Server Online Status 100% Online: 4 Offline: 0		Record Sta the Storage 0% Video recor No video: 4	e Server	Record Status of Encoding Devices 100% Video recording: 0 No video: 0			
Area	^	Device Name	Туре	Channel	Alarm In	Alarm Ou	IP Address/IP Rang	Port	Online St	Alarm Sta
🗅 🛈 Default area		IPC	Standard Device	1	1	1	192.168.250.105	9008	Online	6
		A3H-2MP-20-210	Standard Device	1	2	2	192.168.250.210	9008	Online	6
		2MP A3FR-107	Standard Device	1	1	1	192.168.250.107	9008	Online	6
		IPC	Standard Device	1	1	1	10.20.19.128	9008	Online	6

## 13.4 Viewing Status Log

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

Check ar	d Export Log Backup	and Restore	Configuration Online Sta	us Status Log					
Start Time	2019-06-19 00:00:00 🔶 E	nd Time 201	19-06-19 23:59:59 🗘 Search						
No.	Туре 🗸	' Record Ti	. Node Na Details						î
1	Monitor Client online	2019-06	A3H-2MP						
2	Encoding device online	2019-06	A3H-2MP						
3	Monitor Clinet offline	2019-06	A3H-2MP						
4	Encoding device offline	2019-06	A3H-2MP						
5	No recording	2019-06	2MP A3F						
6	No recording	2019-06	2MP A3F						
7	Recording	2019-06	2MP A3F						
8	No recording	2019-06	2MP A3F						
9	No recording	2019-06	2MP A3F						
10	Recording	2019-06	2MP A3F						
11	Monitor Client online	2019-06	IPC						
12	Encoding device online	2019-06	IPC						
13	Monitor Client online	2019-06	2MP A3F						
14	Encoding device online	2019-06	2MP A3F						
15	Monitor Client online	2019-06	A3H-2MP						
16	Encoding device online	2019-06	A3H-2MP						~
					<b>∢</b> ◀ The 1	/2Page 🍽 🎽 Per	Page 50 🗸 Entry	1-50 Total Entries :	59

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.

## 14 Local Configuration

### 14.1 Record and Snapshot Settings

Go to Home→Local Configuration.

Save Recording Files To	C:/record			Browse
Save Backup Files To	C:/backup			Browse
Backup File Format	AVI			
Save Snapshots To	C:/capture			Browse
Snapshot Number	5 ~			
Max File Size for Manua	l Recording and Record Backup	• 512MB	O 1GB	O 2GB

In this interface, the storage path of recording files, backup files and snapshots, backup file format, snapshot number and max file size for manual recording and record backup can be set up here.

#### **14.2 Local Settings**

Go to Home→Local Configuration→Local Setting.

Local Settings			
Auto Startup Auto Login Show tips when the node is offline	Trigger audio when the node is offline	☑ Full name display for DVR/NVR's channels	Resource tree automatically expands
New live preview view default substream			
Resource Tree Sorting Rules			
Video Configuration Rules			
Backup client configuration Restore client configuration			
Verify the password before exiting the program $\bigcirc$ Yes $\bigcirc$ No			
Select Language English(United States)			
Time Display Format yyyy-MM-dd hh:mm:ss			
Select the alarm sound file	Browse Test		
Select node dropped sound file	Browse Test		
Select the sensor alarm sound file	Browse Test		
Apply			

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

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.

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

In this interface, you also can select the resource tree sorting rules, video configuration rules, language and upload various alarm audio files. You can click [Synchronize platform time] to synchronize the time of all devices and the platform.

### **14.3 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.



### **14.4 Alarm View Settings**

Go to Home→Local Configuration→Alarm View Setting.

Automatic Pop-	up Alarm Page	E Full screer	display	when popping up	Full Screen Displ	ay DISPLAY1	
Close Alarm page	Automatically	shut down 🗸	Time	5Second	~		
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).

### **14.5 OSD Position Configuration**

Click Home→Local Configuration→OSD Position Config to go to the following interface.

OSD Position Config	
Drag slider	
Ŭ.	
Apply	

Drag the slider to the position you want to show the OSD and then click "Apply" to save the settings.

### **14.6 System Configuration**

Click Home→Local Configuration→System Config to go to the following interface.

System Settings	
Alarm preview using third stream	
Same alarm reporting interval: 1 Hour Select associated alarm type	
Synchronize Platform Time Synchronize Devices Synchronize Time Zone	(Automatic synchronization of platform time to equipment every 2 hours)

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.

## 14.7 Audio Uploading

Go to Home  $\rightarrow$  Local Configuration  $\rightarrow$  Audio Uploading. Click [Add] to bring the following box.

Add	Delete		Search	Q
	Audio Na	Delete		
			Audio Uploading ×	
			Browse Test	
			udio Name	
			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.

## **15 Parking Lot Management**

Before using parking lot management module, please add ANPR cameras first in the resource management interface.

#### **15.1 System Settings**

(1) Enable the parking lot. Go to Home  $\rightarrow$  Parking Lot Management  $\rightarrow$  System menu as shown below. Select Entrances Config tab and then click the main park. Enable this main parking lot, its sub parking lot and gateway and lane.

Vehicle Monitoring Vehicle Management	Integrate Search System Overdue	Parking Blacklist	Parking lot: 500/500
System ^	Closing the gate barrier delay time(s) 1		
Charge Config	The lane of the left monitoring window:	Main Park_Gateway1_Lane1 V The lane of	of the right monitoring window: Main Park_Gateway1_Lane1
Period Config	Main Park Sub Park1 Gateway1 Lane1(Not Enabled) Lane2(Not Enabled)	Lane Name Lane1   Entrance   Auto Release Rule   Fixed  Not bound license plate grab machine	i Vehicle Release 🔲 Temporary Vehicle Release Bound license plate grab machine
	Gateway2 Gateway2 Gateway2 Gateway3 Gateway4 Gateway3 Gateway3 Gateway3 Gateway3 Gateway3 Gateway3 Gateway3 Gateway4 Ga	Gefault area     4-02	
		Not bound LED screen	bound LED screen
			5
			Apply

② Bind the ANPR cameras. Please bind the ANPR cameras to the activated lane. Choose the ANPR camera and then click 🔰 to add it.

Click [Apply] to bind this camera to the lane. Choose the ANPR camera and then click **I** to unbind it.

Set the corresponding lane of the monitoring window. Then click [Apply] to save the settings. After that, you can go to the vehicle monitoring interface to view the live images of the left and right lane.



③ Bind LED Screen. Choose the LED screen and then click  $\triangleright$  to add it. Click [Apply] to bind this LED screen. Before binding the LED screen, please go to Home→Resource Management→LED Display Device interface to add LED screen. In the following interface, click [Add] and then enter the IP address port of the LED display screen. Click [OK] to save the settings.

Add, Edit or Delete Device De	vice Setting	Area Setting	Channel Group Settir	ng			
Device Type	Add	Delete					Search
Encoding Device (Online/Total num Decoder (Online/Total number:1/1)		Device N Al	arm Type IP Address	Port Onli	ne St Ec	lit Delete	
Alarm Host (Online/Total number:0,				dd LED Displ	ay Device		
Access Control System (Online/Total Cascade Platform (Online/Total nur	Device Name	Alarm Type	IP Address	Port	Delete		
LED Display Device (Online/Total nu	_	Normal Scr	0.0.0.0	80			
Intelligent Analysis Server (Online/T	ota						
Storage Server (Online/Total number	r:1						
Media Transfer Server (Online/Total	n						

After the LED screen is bound to the corresponding lane, the license plate number will be displayed on this LED screen when there is a vehicle passing.

④ Set the delay time of closing the gate barrier. For example, it is set to 15s. Then the gate barrier will be automatically closed after it is opened for 15s. If "Temporary Vehicle" is checked, the gate barrier will be automatically opened when temporary vehicles and non-blacklist vehicles pass the ANPR camera.

### **15.2 Vehicle Management**

① Link vehicles to the parking lot. Go to the vehicle management interface. Click [Add] and then enter the license plate number, vehicle color, owner name and phone number and choose the parking lot, parking type, vehicle type and start time and end time.

Veh	cle Monitoring	Vehicle Manager	nent Sear	ch Syste	m Settings	Overstaying	Vehicle Blackli	ist			
License	e Plate:		Search	Add	Modify	Delete					
No.	License Plate	Parking Lot	Parking T	Vehicle Ty	Vehicle C	Owner Na	. Owner Tel	Start Time	End	Time	
1	XXXXX	Main Park	Linked Ve	Small vehi	White	ххх	12345678911	2019-09-04 00:00:00	2019-10-03	23:59:59	
						Add	vehicle		×		
			License Pl	ate(*)			Parking Lot	Main Park	$\mathbf{\vee}$		
			Parking T	ype Lir	ked Vehicle	$\sim$	Vehicle Type	Small vehicle	$\sim$		
			Vehicle C	olor(*)			Owner Name(*)				
			Owner Te	l(*)							
			Start Time	e 20	19-10-10 00:00:0	00	End Time	2019-11-09 23:59:59	~		
			Descriptio	n							
					ОК		Cancel				
				_							

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.

Vehic	cle Monitoring	Vehicle Manage	ement Sear	rch Systen	n Settings	Overstaying	Vehicle Black	list			Parking lot: 500/500
License	Plate:		Search	Add	Modify	Delete					More
No.	License Plate	Parking Lot Main Park		Vehicle Ty Small vehi		Owner Na	Owner Tel	Start Time	End Time	Description	License Plate:xxxxx Parking Lot:Main Park Parking Type:Linked Vehicle
											Vehicle Type:Small vehicle Vehicle Color:White Owner Name:xxx Owner Tel:12345678911 Start Time:2019-09-04 00:00:00 End Time:2019-10-03 23:59:59 Description:
							🗐 📢 The	1 /1Page	Per Page 50 🗸 Entry	1-1 Total Entries : 1	12-month renewal

To modify vehicle information:

Choose the vehicle you want to modify and then click [Modify] to pop up the modification window. Change the information as needed.

To delete the vehicle information

Select the vehicle you want to delete and then click [Delete] to delete this vehicle from the vehicle list.

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

#### **15.3 Vehicle Monitoring**

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 blacklist and "Temporary Vehicle" in the automatic pass rule is not selected, this vehicle will not be allowed to pass automatically. You must click [Open Barrier] manually to let it go.

#### 15.4 Search

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.

Search ^	Start Time	2019-10-10	00:00:00	End Time 20	19-10-10 23:59	159 😌 Lice	nse Plate:				Search	Pass picture
ass Info Search arking Charge Search	Vehicle Ty	/pe Unselect	ed	✓ Lane	Unselected				$\sim$		Modify	
ayment Info Search	No.	Pass time	License Pl	Licence p	Passing P	Entrance	Lane	Direction	Vehicle T	Operator	Pass type	
												Zoom In Download

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.

iearch 🔷	Start	Time 2019-10-09 00:00:0	0 😌 End Tim	e 2019-10-09 23:59:59	Cicense Plate:						Search	Pass picture
ss Info Search rking Charge Search	Vehi	cle Type Unselected	× 1	ane Unselected			$\checkmark$				Modify	
yment Info Search	No.	Pass time	License Plate	Licence plate color	Passing Parking Lot	Entrance	Lane	Direction	Vehicle Type	Operator	Pass type	
	1	2019-10-09 15:45:22	A5136D	Yellow	Sub Park1	Gateway1	Lane1	Entrance	Small vehicle	admin		
	2	2019-10-09 15:42:00	B52698	Blue	Sub Park1	Gateway1	Lane1	Entrance	Small vehicle	admin	Automatic release	
	3	2019-10-09 15:41:42	B52698	Blue	Sub Park1	Gateway1	Lane1	Entrance	Small vehicle	admin	Automatic release	
	4	2019-10-09 15:41:23	B52698	Blue	Sub Park1	Gateway1	Lane1	Entrance	Small vehicle	admin	Automatic release	

### **15.5 Parking Overstaying**

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

Vehicl	e Monitoring	Vehicle Management	Search Syste	m Settings	Overstaying Vehicle	Blacklist		Parking lot: 500/500
Refrest	1							
No.	License Plate	Start Time	Parking Lot	Entrance	Lane	Vehicle Type	Di	uration of Stay
Parking t	time threshold:	12	hours(1~1000)	Change			<b>∢</b> ≪ The 1 /2	1Page ▶▶ ▶  Per Page 50 ❤ Entry Total Entries : 0

### **15.6 Backlist Vehicle**

Add vehicles to blacklist. Click [Add] to pop up an adding window. In this window, you can fill out the detailed information of the blacklist vehicle, such as license plate number, vehicle type, vehicle color, owner name, etc.

	Add Blacklist		×
	Vehicle Type	Small vehicle	$\checkmark$
	Owner Name(*)		
ОК	Cancel		
	OK	Vehicle Type Owner Name(*)	Vehicle Type     Small vehicle       Owner Name(*)

To modify vehicle information:

Select the added vehicle and click [Modify] to modify the information of this vehicle.

To delete vehicle information: Select the added vehicle and click [Delete] to delete it.

To search the vehicle inforamtion:

Enter the license plate number and then click [Refresh] to view the inforamtion of blacklist vehicles.

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 blacklist, and vice versa.



## 16 Web Client

### 16.1 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.

### 16.2 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. In 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.

## **17** Mobile APP Surveillance

- ① Run "Play Store" or APP store.
- ② Search "CMS" and then install it.

Note: Users can install mobile surveillance APP through iOS or Android OS. The operation steps of both APPs are similar, only some different existing. Here we take the surveillance APP of Android OS for example. Please refer to the actual operation interface for details. ③ Run "CMS" to go to the following interface.

E Live	)	<	Server List	$\oplus$	<	Add Device
	2018/12/20 14189/68				۲	IP/DDNS/SN
NVMS 2					۶.	Nickname
					8	User
Server List					50	Password
	$\bigcirc \bigcirc \blacksquare$					
کې Local	>					
0	2					
() About	>					Save
	>					
88	<b>4</b> )					

In the live interface, click and then select "Server List". This will take you to the Server List interface.

Then click  $\bigoplus$  to add devices.

#### > Login by domain name or IP address

Enter domain name or IP address, nickname, username and password.

IP address: Enter the IP address of the authentication server plus its port (like 210.21.228.183:6003)

Nickname: Self-define it.

Username/password: Enter the username and password of the CMS.

Click "Save" to go to the live interface.

Note: This APP only allows adding one platform (CMS).



• Green icon means the platform is connected successfully; the flash icon means the platform is being connected; grey icon means the platform is unconnected.

 $\boxed{U}$  : Click it to delete the platform.

Click it to modify the platform information.

### 17.1 Live

In the server list interface, click **K** to go to the following interface as shown below.

≡	Live	≡ L	ive
	٨		C
NVMS2.0	${\otimes} \bigcirc \bigcirc {\oplus}$	NVMS2.0	$\textcircled{O} \bigcirc \bigcirc \textcircled{O} \textcircled{O}$
🗖 ALL	>	Camera1	
■ N9	$\rightarrow$	Camera2	
		Camera3	
		Camera4	
		< N9>172.16.48.7	0_6036>70Device N
88	} <)>	88	<⊅)

Click ">" to expand the hidden menu and then select a camera to view live video.

Click  $\leftarrow$  button at the bottom to return to the previous interface.

Double click the window to see full window; double click it again to switch to original status.

Icons in the live interface

- Idle mode
   : Remote playback.
   : Click it to play the previous channel group.
   : Click it to play the next channel group.
- (In the second s

E : Click it to choose 1/4/9/16 screen(s) display mode. Click and hold it to choose more screen display modes.

Click it to enable/disable audio.

Turn you phone and make the live image display in landscape mode or go to the full screen mode. Then the following icons will be displayed by clicking the current image.



#### • PTZ Control

The added device must support PTZ function, or PTZ mode cannot be enabled. Click  $\bigcirc$  button to see the following image. Click  $\bigcirc$  or  $\bigotimes$  to return to the live interface.



Please control the PTZ by sliding the image in direction of the arrow marked on the image. The PTZ will automatically focus on the little red circle by clicking the image. Then the 3D function can be enabled (the added device must support 3D function, or this function is ineffective).

### **17.2 Remote Playback**

Records stored in the storage server and device can be played.

- There are two ways to play records.
- In the live view mode, click 🥴 to switch to the remote playback interface. The records of the current channel will be played.
- In the live interface, click 🔯 to switch to the remote playback interface and then click 🗰 button to select a camera to play back.



- ① Select date and event type
- 2 Click the corresponding icons to control playback
- (3) Click  $\bigoplus$  button to finish playing.

Icons in the playback interface.

630			recording	
<u>e</u> :	Choose	the	recording	mode.

Click it to choose date.

: Click it to choose the channel.

Frame. Pause the current play and then click this icon to play the next frame.

C: Rewind

: Fast forward





### **17.3 Alarm Information**

This function is only available for iOS version.

Go to the alarm information interface as shown below.

- 1 In this interface, you can view the <u>alarm</u> information.
- Search alarm information: click 😰 to select the alarm type. Click one item of the alarm list to read it. 2
- 3
- (4) Click  $\overrightarrow{\amalg}$  button to delete the alarm information.

		33/35		Alarm 🗐 35/3
Channel-Motion Detect 172.16.54.37_37777_IPDome			Channel-Motion Detect 72.16.54.37_37777_IPDome	🤣 Channel Alarm
Channel-Motion Detect 172.16.54.37,37777,IPDome			Channel-Motion Detect 72.16.54.37_37777_IPDome	🤣 Sensor Alarm
Channel-Motion Detect 172.16.54.37_37777_IPDome			Channel-Motion Detect 72.16.54.37_37777_IPDome	Offline Alarm
Channel-Motion Detect	2019-01-01		Channel-Motion Detect 72.16.54.37_37777_IPDome	1970-01-01 08:00:0
Channe 172.16.5 172.16.54.37 3777	otion Detect		Channel-Motion Detect 72.16.54.37_37777_IPDome	2019-01-01 08:00:0
• Channe 人脸171_	_) Done		Channel-Motion Detect 72.16.54.37_37777_IPDome	2019-01-01 08:00:0
Channe 人校171			Channel-Motion Detect 人脸171_人脸171	2019-01-01 08:00:0
Channe 172.16.5-	2019-01-01 08:00:00		Channel-Motion Detect 人脸171_人脸171	2019-01-01 08:00:0
Channe 172.16.54.37_37777_IPDome	<u>II</u>		Channel-Motion Detect 72.16.54.37_37777_IPDome	2019-01-01 08:00:0
Channel-Motion Detect 172.16.54.37_37777_IPDome			Channel-Motion Detect 72.16.54.37_37777_IPDome	2019-01-01 08:00:0
Channel-Motion Detect 172.16.54.37_37777_IPDome			Channel-Motion Detect 172.16.54.37_37777_IPDome	2019-01-01 08:00:0
Channel-Motion Detect 172.16.54.37_37777_IPDome			Channel-Motion Detect 72.16.54.37_37777_IPDome	2019-01-01 08:00:0
Channel-Motion Detect		08:00:00	Channel-Motion Detect	2019-01-01 08:00:0
ß	Ð		1	Ð

## 18 Troubleshooting

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

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

Modify User	×
Enable 🖉	
User Name* 1	
Old Password* Enter Password	
Password* 123456	
Confirm Password* 123456	
Display Password 🖌	
Permission Group* 1	
Bind MAC Address 00 : 00 : 00 : 00 : 00 : 00 : 00	
Remark	
OK Cancel	

#### 2. Unable to work normally after starting server.

1) Please check whether the port is ocuppied and view the run status of the service as shown below

e Options View	Help			
pplications Processes	Servi	ces Performanc	e Networki	ng Users
Name	PID	Description	Status	Group
AudioEndpointBu	1100	Windows A	Running	LocalSy:
ServerTrayMgrApp	5056	ServerTray	Running	N/A
AlarmServerApp	2852	AlarmServ	Running	N/A
TVWallServerApp	3456	TVWallServ	Running	N/A
StorageServerApp	2860	StorageSer	Running	N/A
MediaTransferSe	1096	MediaTran	Running	N/A
ConfigServerApp	4316	ConfigServ	Running	N/A
AuthenticationSe	4592	Authentica	Running	N/A
wpscloudsvr		WPS Office	Stopped	N/A
ZhuDongFangYu	4796	主动防御	Running	N/A
WSearch	4540	Windows S	Running	N/A
WMPNetworkSvc	4688	Windows M	Running	N/A
wmiApSrv		WMI Perfo	Stopped	N/A
wbengine		Block Level	Stopped	N/A 👻
•				•
			Se	rvices

3. 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 check whether it has the authority to view the device information.

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

#### 4. The alarm information cannot be received after the user logins to the monitor client.

1) Please check whether the schedule of sensor alarm, motion detection alarm and so on are set in the CMS system.

2) As for remote login device in the monitor client, please check whether alarms and alarm schedules of the remote login device have enabled.

#### 5. The record cannot playback after the user logins to the monitor client.

1) Please check whether the storage server is online. If it is online, please check 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 check 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.

#### 6. The configuration of devices cannot be modified remotely after the user logins to the monitor client.

1) When the device configuration is required by the monitor client 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.

#### 7. The preview image on the client cannot display fluently.

1) Please check whether the CPU occupancy rate of the client platform 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.

#### 8. 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.

#### Notes

1. Please use super administrator or standard user (permission control is set to "Never Notify") to log in operation system, install and use servers and client software.

2. The resolution of the surveillance client's monitor shall be more than 1280\*960.

3. If you want to delete the files of a server, please stop the server first.