

Viewtron VMS Software

User Manual

CMS Software for Windows and Mac PCs Viewtron Security Camera Systems



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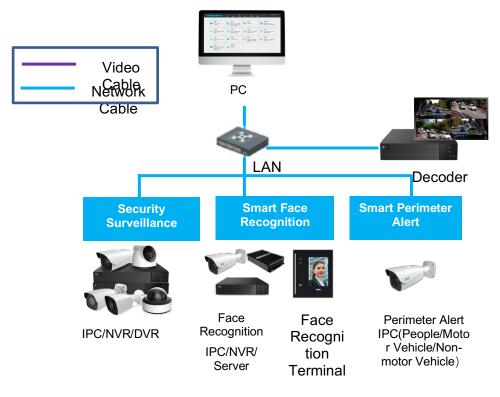
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1 Introduction

1.1 Introduction

Viewtron NVMS (network video management software) is used to centrally manage and view Viewtron NVRs, DVRs, and IP cameras from Mac and Windows PCs. This is sometimes called CMS software (central management software). The Viewtron NVMS software supports real-time security camera viewing (remote Internet & local network), record storage, record playback, record download, alarm linkage, TV wall camera display. Viewtron NVMS is applicable to small, medium, and enterprise sized video surveillance applications. Some examples are home security camera systems, industrial parks, education / universities, banking, retail / chain stores, storage facilities, office buildings and transportation.

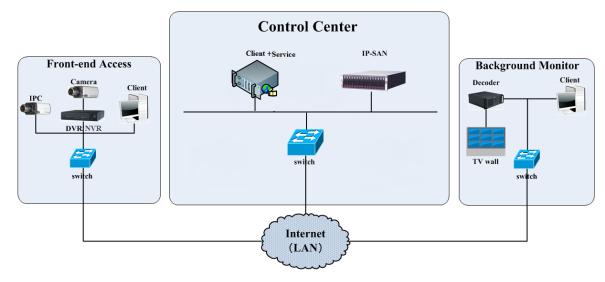


1.2 Software Architecture

Application Layer	C/S Client Mobile Phone Client
Business Layer	Decode to TV WallRecord StorageRecord PlaybackE-MapAlarm
Platform Layer	Service Client
Access Layer	IPC NVR TVI-DVR AHD-DVR Analog DVR

1.3 System Components

1.3.1 System



1.3.2 Front-end Access

- Front-end devices include IP Cameras, DVRs and NVRs.
- You need to connect monitor devices such as IP Cameras, DVRs and NVRs 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 Client, Configuration Management Center and Monitor Client.
- 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

- In the control center, NVMS lite realizes various services, such as, video transmission, recording, decoding on TV wall, etc.
- In the control center, add IP-SAN storage array to realize centralized storage.
- In the control center, connect servers and IP-SAN storage array to internet through switches.
- Please set up IP addresses in accordance with the actual situation.

Note: If servers are installed in the same PC, these servers shall have the same IP address.

1.4 Version

Version	Max signal access
Viewtron NVMS lite	256-ch video signals

2 Configuration Requirement

2.1 Software and Hardware Configuration Requirement

No.	NVMS components	Recommendation for hardware configuration	Recommendation for software configuration	Number
1	Server/Monitor Client	Inter(R) Core(TM) i5 7500 3.0GHz or above /16GB memory /1T SATA/ Gigabit NIC or AMD HD6570 or above, 512MB GDDR5 or above/500GB SATA/ Gigabit NIC	Windows 10 Professional/Ultimate	As needed

Note: Face recognition IPC configuration: the application scenes should be set as "Security Monitoring", or the snapshot interval should be set more than 1s.

When all IPCs added to the platform perform face detection or comparison, the number of the captured pictures reported to the platform should not exceed 1,000 per minute.

The recommended 64-bit hardware configurations are as follows.

No.	NVMS 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 GDDR5 memory) /500GB SATA/Gigabit NIC	Windows 7 SP1 64bit Professional/Ultimate Windows 10 Professional/Ultimate/Home 64bit	As needed

2.2 Requirement for Firewall

Server	Port Type	Port
Authentication Server	Internal Port	6003
Configuration Server	Internal Port	7002
Media Transfer Server	Internal Port	6006
Media Transfer Server	Auto Report Port	2009
Storage Server	Internal Port	6009
(windows version /IP-SAN)		0009
Alarm Server	Internal Port	6033
Intelligent Server	Internal Port	6069
TV Wall Server	Internal Port	6036

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

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 Checking Installation Environment

Item	Checkup Standard
Hardware	Check whether the hardware meets the standard required. (including CPU, memory, HDD, etc.)
Software	Check whether the software meets the standard required. (including the type and version of the operation system, NVMS 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.

2.4 Configuring Server IP Address

The IP address of the server (computer) is the IP address of the platform. Please make sure the platform and other devices are connected to the WAN/LAN. It is recommended that the platform and the devices that are about to be added to the platform are in the same local network segment. Here is how to set the server IP address:

- 1. Connect the network cable to the server, power on and start the server.
- 2. Click 📁 at the lower right corner of the computer desktop and then click "Open Network and Sharing Center" as shown below.

File Edit View Tools Help	All Control Panel Items Network and Sharing Center	er	
Control Panel Home Change adapter settings Change advanced sharing	View your basic network information ar	See full map	
settings	ADMIN-PC Network (This computer) View your active networks	c 12 Internet Connect or disconnect	
	Network 12 Public network	Access type: Internet Connections: Local Area Connection 3	
	Change your networking settings Set up a new connection or network Set up a wireless, broadband, dial-up, ad l	hoc, or VPN connection; or set up a router or access point.	

- 3. Click "Local Area Connection x" \rightarrow "Properties".
- 4. Select IPv6 or IPv4 according to the actual network environment. Here we take IPv4 as an example. Then click "Properties" of IPv4.

🖞 Local Area Connection 3 Status	Local Area Connection 3 Properties
General	Networking
Connection IPv4 Connectivity: Internet IPv6 Connectivity: No Internet access Media State: Enabled Duration: 14 days 04:54:46 Speed: 100.0 Mbps Details	Connect using: Configure This connection uses the following items: Configure This connection uses the following items: Client for Microsoft Networks Client for Microsoft Networks Client for Microsoft Networks File and Printer Sharing for Microsoft Networks File and File and File and File and File and File and Fil
Sent — Received Bytes: 2,125,192 9,285,794	Link-Layer Topology Discovery Responder Install Uninstall Properties Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication
Properties Biagnose Diagnose Close	Cancel

5. Select "Use the following IP address" and then configure the IP address, default gateway and DNS server addresses according to the actual network environment. After that, click "OK" to save the settings.

Internet Protocol Version 4 (TCP/IPv4)	Properties
General	
You can get IP settings assigned auton this capability. Otherwise, you need to for the appropriate IP settings.	
Obtain an IP address automatical	ly
O Use the following IP address:	
IP address:	
Subnet mask:	255.255.0.0
Default gateway:	
Obtain DNS server address auton	natically
Ouse the following DNS server add	resses:
Preferred DNS server:	223.5.5.5
Alternate DNS server:	223.6.6.6
Validate settings upon exit	Advanced
	OK Cancel

3 Install and Uninstall the Software

3.1 Install the software

1) Double click "NVMS server.exe". Select the UI language as needed.



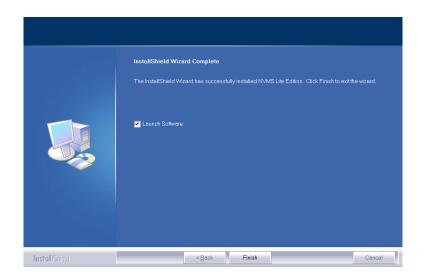
2) A tip will pop up to suggest you to close the antivirus software. If no prompt window appears, please skip this step.

tip	X
It is suggested that the 360tray.exe be closed first and the	n continue!
	ок

- 3) Click "I accept the terms of the license agreement" and then click [Next].
- 4) Click [Browse] to select the installation location and then click [Next].

Setup will install NVMS Lite Edition in the following folder.	
To install to this folder, click Next. To install to a different folder, clic folder.	k Browse and select another
-Destination Folder- C:\Program Files (x86)NVMS Lite Edition\	Bjowse

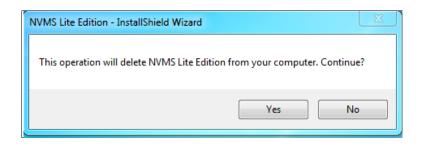
5) Check "Launch Software" as needed and then click [Finish]".



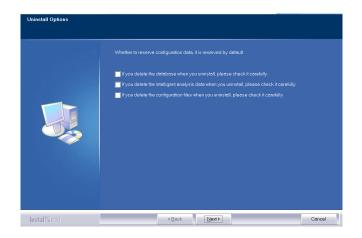
3.2 Uninstall Software

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 NVMS.

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



Select whether to delete the database, intelligent analysis data or configuration files as needed. Then clicking the "Finish" button ends the uninstallation.





4.1 Login

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

User Name	
A	\sim
Password	Forget password?
B Enter Password	
Remember Password	Auto Login
Login	
I have read and agre Privacy Statement	e Application

- Enter username and password (the default username is admin; the default password is 123456). Check "Remember Password" or "Auto Login" as needed.
- (2) Check "I have read and agree Application Privacy Statement".
- 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.

R	eset Super Administrator Passwo	ord		×
Create Security Questions /	Answers Dynamic Password			
Config Server:	10.214.11.98	7002	Search	
Question:	When is the birthday of the person you like?	\sim		
Answer:				
Question:	When's your father's birthday?	\sim		
Answer:				
Question:	When were you born?	\sim		
Answer:				
		OK	Cancel	

If this is the first time for you to log in, please create security questions and answers. (Go to Home \rightarrow User and Permission \rightarrow User Management \rightarrow Edit Security Questions/Answers)

Ed	it Security Questions / Answers	×
Create Security Questions / An	swers	
Question:	~	
Answer:		
Question:	\sim	
Answer:		
Question:	~	
Answer:		
		Cancel

It is important that you remember the answers for these questions or you will not be to reset your password and be locked out.

If you don't set the security questions and answers, you can reset your password by dynamic password. Click "Reset password" and then click "Dynamic Password" to go to the dynamic password page. Search the CPU ID, MAC Address and the current time and then send these information to the technical staff to get the dynamic password. Note that the management server and client must be installed in the same server, or the CPU ID, the current time and MAC address cannot be searched.

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.

	i	Record Partitio	on Setting	×
Partition Symbol	Partition Size	Remain Size		
C(System Driver)	102GB	3GB		
D	187GB	65GB		
E	187GB	90GB		
			OK Cance	4

4.2 Main Menu Interface Introduction

~	Home Resource M	K BANAGEMENT Storage Playb	ack Configuration +	2				1	∷ Ջ − 2022-09-0
Γ	Data Dashboa	ırd	Video Previe	w		Storage Play	back		
	Intelligent Dash	iboard	Video Preview	Alarm Preview	8	By Tag Recor	ck By Time Slice By d Backup Search Pict g Schedule Setting		
		agement lete Device Device Setting hannel Group Setting	Group Manag People and Ve Sync Records	hicle Management		License Plate O			
ce Alarm 🛛 Motion De	rtection 🐱 Face Alarm 💌 Other In	ntelligent Alarm 🛛 🛛 Sensor Alarm	🛛 🗹 Combined Alarm 🛛 Offli	ne Alarm 🛛 Server A	larm 🔽 Alarm Task (SOP Filter			Unhand
Alarm Time	Alarm Source	Alarm Type	✓ Storage Playback	Device Playback	Storage Snapshot	Device Capture	Alarm Processing	Handling Status	Disposition
				5					

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			
	"Live View", "Edit live view"			
2	Including "Switch User", "Register", "About", "Modify Password", "User Manual" and "Skin"			

Functional area

Menu	Description		
Data Dashboard	Smart display video window, device status, face comparison, human body temperature screening, E-map, etc.		
Video Preview	To view live images and to record, snapshot and talk, etc.		
Storage Playback	To remotely play the local records or back up records.		
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.		
Group Management	To manage people and assign the access permission		
Search	Including image search by face, face comparison retrieval, license plate comparison retrieval, smart snapshot retrieval and visitor record search.		

User and Permission	To add, modify or delete user account and set permissions for these accounts.		
Alarm Center	To set alarm linkage, schedule, SOP, E-mail, SIRA, alarm task and so on; To search alarm logs.		
Target Counting	g To monitor and analyze people/vehicle flow in real time		
Operation and Maintenance Management	To search, export and maintain logs; To back up or restore configuration; To display device/server/record status		
Configuration	To set record path, snapshot path, system startup and maintenance, overload and alarm view.		
Edit Common Function	To select the functional module you want to display in 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.

Common buttons:

Button	Description
	Click it to edit the item.
Ū	Click it to delete the item.
>	Check the camera and then click it to select
<	Check the camera and then click it to remove
\gg	Click it to add all items
<<	Click it to remove all selected items

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.

evice Typ	e (Online/Total number:(lete Chang	e Area Import	t 🚽 Change	Transfer Server	Change Storage Se	erver Upgra	ade 🚽 Save For
Juling Device	(online) rotar number.	5/0)	Âc	ld Encoding	Device			-	×
Quickly Ad	d Manually Add	Initiatively Report	Unbound Au	ito Report Device					
Refresh	Device Quantity:63								
	Device Name	IP Address	Mo	dify IP Address	Port	Subnet Mask	Protocol	Version	Dev
	Device Name	10.20.19.208			6036	255.255.0.0	Standard Device	1.4.4	00:18:AE:8
	Device Name	10.20.52.200			6036	255.255.0.0	Standard Device	1.4.7	00:18:AE:4
	Device Name	10.20.18.38			6036	255.255.0.0	Standard Device	1.4.6	00:18:AE:8
	IP Camera	10.20.18.130			8000	255.255.0.0	Standard Device	5.1.1.0	00:18:AE:E
	IPCamera	10.20.19.56			80	0.0.0.0	ONVIF		
	IPCamera	10.20.19.112			80	0.0.0.0	ONVIF		
	IPC	10.20.18.94		\square	9008	255.255.0.0	Standard Device	5.0.1.0	00:18:AE:(~
	Select Tr	ansfer Server Transfe	er Server		Selec	t Storage Server Sto	prage Server	~	
			ault area	~		_	Automatically Link A	Area	

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

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, such as Hikvision, Dahua, etc. The default username of the standard device is "admin and the default password of the standard device is "123456".

Note:

* The default media transfer server 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

Viewtron VMS Software

				Add Enco	ding Device				×
Quickly Add	Manually Add	Initiatively I	Report	Unbound Auto Report [Device				
IP Address/IP Ra	ange/Domain Na	me/Serial No	./URL	Protocol	Port	User Name	Password	Test	Delete
IP Address 🗸 🗸	0.0	. 0 .	0	Standard Device	6036	admin	•••••		
IP Address									
IP Range									
Domain Name									
Serial No.									
URL									
IPV6									
-									
<									>
	Select T	ransfer Server	Transfer	Server 🗸	Select Stora	ge Server Storag	ge Server	\sim	
		Select Area	🛕 A3	\sim	Crea	ate Area 🗆 Aut	omatically Link A	irea	
						Default	Password	ОК Са	ancel

- 1 Enter IP address/IP range/domain name/Serial No./URL/IPv6 address, username and password and choose protocol type.
- 2 Click [Test] to test whether the device is connected successfully or not.
- 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 Enco	ding Device					×
Quickly Add	Manually Add	Initiatively F	Report	Unbound Auto Report [Device					
IP Address/IP Ra	ange/Domain Nai	me/Serial No	./URL	Protocol	Port	User Na	ime Passw	ord 1	ſest	Delet
URL:RTS	P://192.168.226.201:	:554/Profile1		RTSP				ť	Ą	Ī
	IP Address:0.0.0.	0		Standard Device	6036	admir	•••••			
<										>
	Select Tr	ransfer Server	Transfer	Server 🗸	Select Stor	age Server	Storage Server	\sim		
		Select Area	🛕 A3	\sim	Cr	eate Area	Automatically	Link Area		
						De	fault Password	ОК	Can	cel

How to get a 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. For the URL of a device from other companies, please consult their technical documentation.

5.1.3 Initiatively Report

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

			Add Enco	ding Dev	/ice				×
Quickly Add Manually	Add Initiatively R	eport Unb	ound Auto Report	Device					
Device N	umber		Protocol		User Name	Passwo	rd Delete		
No. 🗸 4924			Standard Devic	e	admin	•••••			
Se	elect Transfer Server	Transfer Server	\sim		Select Stora	ge Server	Storage Server	\sim	
	Select Area	🛕 A3	\sim		Crea	ate Area	Automatically L	ink Area	
						D	efault Password	ОК	Cancel

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

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

• If the IP camera is needed to add, please go to Network Configuration→Server Configuration of the IP camera. Check "Enable", enter the IP address and port (default 2009) of the NVMS and then set the device number of the IP camera.

System	Config Home • Ne	twork ► Advanced				
Basic Information	Port Server O	nvif DDNS SNMP	802.1X RTSP	RTMP UPnP En	nail FTP HTTPS	QoS
Date and Time Local Config Storage	🗹 Enable					
	Server Port	2009				
Display Settings Video/Audio	Server Address	10.214.11.99		IP address of	Media Trans	fer Server
OSD Video Mask ROI Config	Device ID	4924				
Zoom/Focus			Save	Device num	nber	
O 11		I	5470			
Alarm						
Motion Detection Anomaly						
Alarm Server						
Event	-					
Object Abandoned/Missing						
Video Exception Line Crossing						
Region Intrusion						
r Region Indusion						
	1					
Network						
TCP/IP Port More						

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

5.1.4 Quickly Add Auto Report Device

For the auto report devices, you can go to the "Unbound Auto Report Device" interface to add them quickly.

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

				Add E	ncoding	Device			×
Quickly Add	d Manually A	Add Initiative	ely Report	Unbound Auto Re	port Device		Device	e Quantity:1	Refresh
	Device Na	Serial No.	Protocol	Select Tran					
	4924	4924	Standard Device	Transfer Server					
				-					
	Se	elect Transfer Serv	ver Transfer	Server 🗸	<u></u>	Select Storage Server	Storage Server	\sim	
		Select Ar	ea 🏠 A3	\sim	·	Create Area	Automatically Lin	k Area	
							Default Password	ОК	Cancel

5.2 Modify or Delete Device

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

Add, Edit or Delete Device Device Se	tting Aı	rea Setting	Channel Group Setti	ng						
Device Type	Add	Delete	Change Area Imp	ort 🖵 Char	nge Transfer Server	Change Storage Serve	er Upgrade 🖕 Sav	e Form Se	arch	Q
Encoding Device (Online/Total number:2/2)	_	4						1		
Decoder (Online/Total number:0/0)		Edit	Device Name	Туре	Channel Number	Alarm In Number	Alarm Out Number	IP Address/IP Range/Domain Name/Seria	I Port	Select Area
Intelligent Analysis Server (Online/Total nun			Device Name	Standard D	7	24	12	10.20.52.200	6036	default area
Storage Server (Online/Total number:1/1) Media Transfer Server (Online/Total number			IPC	Standard D	1	0	0	10.20.18.92	9008	default area

The device channel number, alarm status, online status and record status can be viewed from the above table. Click 🚺 to modify the device information.

Click to delete the added device.

Select the desired devices and click [Delete] to delete multiple devices simultaneously.

5.3 Device Area Selection

Select one or more encoding devices and then click [Change Area] to modify the area of the selected devices.

5.4 Batch Import/Export

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

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

	A	В	С	D	Е
1	ip	port	protocol	userName	password
2	10.214.40.88	6036	standard device	admin	XXXX
3	10.214.40.89	6036	standard device	admin	XXXX
4	10.214.40.43	9008	standard device	admin	123456

Protocol: four protocols can be used here, including "Hikvision", "standard device", "Dahua" and "ONVIF".

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

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Add, Edit or Delete Device	Device Set	ting A	rea Setting	Channel Group	Setting					
Device Type		Add	Delete	Change Area	Import 🖕	Change Trans	sfer Server	Change Storage Serve	r Upgrade 🕳 Sav	ve Form
Encoding Device (Online/Total n	number:0/0)		A		Import					
Decoder (Online/Total number:0)/0)		Edit	Device Nar	Export Te	mplate(.xlsx)	el Number	Alarm In Number	Alarm Out Number	IP Add
Intelligent Analysis Server (Online	e/Total nun				Export Te	mplate(.csv)				
Storage Server (Online/Total num	mber:1/1)									

Export encoding devices: check the device you want to export and then click [Save Form] to export the device list.

5.5 Device Upgrade

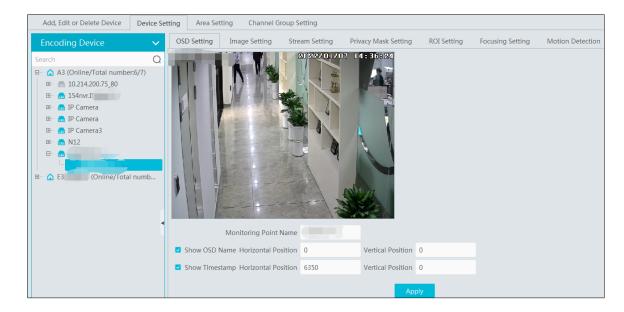
In the "Add, Edit or Delete Device" interface, check the devices you want to upgrade and then click [Upgrade]. Select the upgrade type as needed.

Add, Edit or Delete Device Device Set	ting Are	ea Setting	Channel Group Setti	ing				
Device Type	Add	Delete	Change Area Im	port 🖕 Char	nge Transfer Server	Change Storage Server	Upgrade 🧅 Save Form	
Encoding Device (Online/Total number:2/2)		A					Batch Upgrade for IPC	
Decoder (Online/Total number:0/0)		Edit	Device Name	Туре	Channel Number	Alarm In Number	Ala Batch Upgrade for NVR/DVR	IP Range/Domain Nam
Intelligent Analysis Server (Online/Total nun			Device Name	Standard D	7	24	12	10.20.52.200
Storage Server (Online/Total number:1/1) Media Transfer Server (Online/Total number			IPC	Standard D	1	0	0	10.20.18.92

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

5.6 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.

5.7 Area Setting

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

Add, Edit or Delete Device Device Se	etting Area Setting	Channel	Group Setting	
Add Delete All Empty Area				
Area Name	Channel Number	Edit	Delete	
🛆 A3	14		<u> </u>	

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].

	Creat	e Area	×
Parent Area			\sim
Area Name			
	ОК	Cancel	

5.1 Channel Group Settings

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

Add, Edit or Delete Device	Device Setting Area Setting Channel Group Setting	
Add Delete	Add Channel Group	×
Channel Scoup Nar	Keyboard Number 7 Dwell Time 5Sec	
	Parent Channel Group II Group 1 Selectable Device Selected Device	
	A G A3 0 10.214.200.75_80_CAM001 A G A3 C IP Camera	
	I 154m IP Camera	
	□ IP Camera3	
	□ N12 □ N1 1 <	— ,
	Search Q Select All Reverse Clear All OK	Cancel

- ① Click [Add].
- 2 $% \label{eq:2.1}$ Enter channel group name, channel group and dwell time.
- ③ Select the parent channel group.
- 4 Add channels to the channel group. Check the desired channels 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.

6 Group Management

6.1 People Management

You can add group for three libraries—Person list, Visitor list and Blacklist. Here taking "Add target to person list" for example

6.1.1 Add Group

• Add the parent group

Go to Home→Group Management→People & Vehicle Management→Person List.

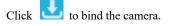
People and Vehicle Management	Sync	Records Task			Add Group	×
Person List Visitor List Blo	ck List	Vehicle Registration				
Person List	V Q	Delete Add		Name		
Earch Default Group	Q	Reversely Select	-			
Add	1				OK Cancel	

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

• Add the sub group:

Put the cursor on the parent group name and then you will see the follow buttons. Click "+" to add the sub group name. A maximum of 9 sub groups can be created.





Bind the camera to the group: Add the people images of the group to the face database of the binding camera. When the person whose picture has transferred to the face database of the binding camera appears in the detection area, the face comparison result will be sent to the platform. Note: the added group or person must be bound with one or more cameras, or the face comparison result will not be gotten by the platform.

	Authorizatio	n Binding	×
Selectable		Selected	
	>	VIP	
•	<		
	>> <<		
	<<		
<	 >	<	
Search	Q	Clear All OK	Cancel

In the people management interface, click "Sync Records" \rightarrow "People" or "Device" to view the synchronization status.

Personal <u>V</u> ehicle Management	Sync	Records Task						
People Device		Access Point(3)	Delete	Export		Device Name	All	\sim
Person List			Name	Device Na	Group	Status	Operation	
earch	Q		ху	Device Name	Default Group	Failure	Cī	
- 🖻 Default Group - 💄 22			ху	IP Camera	Default Group	Success		
 Dm dsm fa N9 xy 			ху	N9	Default Group	Success		

6.1.2 Add Target

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

• Add target one by one

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

People and Vehicle Management Sync I	Records Task								
Person List Visitor List Block List	Vehicle Registration								
Person List V Search Q Default Group	Delete Add Reversely Select	Clear All Target	ts Chang	e Group	Failure Recor		Export Template	Import ×	E
		Add	Name*: Gender: Province:	Male	~	Birthday: Country: City:	2022-05-19	~	
			Work Type: Telephone:			Work ID: Card Number:			
•			ID Type: Remark: The default	ID Card		ID NO: arget distributio	n Group [Default Grou	[di	
							OK Can	cel	

Click Add and select the face image saved in the local PC. Then fill out the corresponding information and click [OK] to save. **Note**: the resolution of the face image shall be less than 3840*3840.

Batch Import

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

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

nat is 2020-0	e number ar 01-01;			r, please	add '; for exa	imple, 1350000	00000 is written as '1	350000000;						
e number sh is general, r			5;											
th Date (Gender	ID Type	ID NO	Country	Province	City	Telephone	Remark	VIP Level	Registration Date	Department	Type of work	Staff Number	Picture addre
0-08-05 F	Female	ID Card	123	China	Sichuan	Chengdu	1350000000		High	2020-08-05	IT	engineer	011111	Helen.jpg
	Male	ID Card	12	China	Sichuan	Chengdu	1350000000		High	2020-08-05	IT	engineer	12222	David.jpg
		Male					5					· · · · · · · · · · · · · · · · · · ·		

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

Click [Import] \rightarrow [Excel Import]

People and Vehicle Managem	ent Sync	Records Task							
Person List Visitor List	Block List	Vehicle Registration							
Person List	\sim								
Search	Q		Change Group	Failure Record	Custom	Export Template	Import Excel Impo	Export	Select Current Page
Default Group		Reversely Select					Batch Imp		
							File Import	t	

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

Search Subfolders: choose a folder including multiple subfolders and then all pictures in the folder and its subfolders will be imported.

Not Search Subfolders: the pictures in the folder will be imported, but the pictures in the subfolders will not be imported.

> Convert images to an Excel

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

- 1. Name the face images (like David_Male_1989-01-03_Engineer_Group1), separating each field with "_".
- 2. Clicking on 📑 displays an image conversion box. Click 🚺 to select the desired images.
- 3. Click respectively to set the image naming rules and content of the header.

Ima	age Conversion Tool	×
Image List		Ð
Image Naming Rules		
Content of The Header		(J)
*Generate Excel for im	Dort OK Cancel]

Note:

- 1. The naming sequence of each image selected must be the same. Please select the image naming rules in accordance with the sequential order of the name of the image.
- 2. The content of the header must contain those items of the image name and can be selected in any order.
- 3. The content of the header must contain name and group (face database), which can be entered in the image name in advance and also can be edited in the exported Excel.
- Modify or Delete Target



Click to bind the camera. After you bind the camera, the face image will be added to the face database of the camera. Click to view the target list as shown below.

Edit	Name	Birthday	Gender	ID Type	ID NO	Country	Province	City	Group	Work Type	Work ID
	ху	2022-01-07	Female	ID Card					Default Gro		
	Dm	2022-01-07	Female	ID Card					Default Gro		
	N9	2022-01-07	Female	ID Card					Default Gro		
	fa	2022-01-07	Female	ID Card					Default Gro		
	dsm	2022-01-07	Female	ID Card					Default Gro		
	22	2022-01-07	Male	ID Card					Default Gro		
	2	2022-01-07	Female	ID Card					Default Gro		

Click "Custom" to customize the target display information.

Click "Change group" to change the group.

6.2 Vehicle Management

6.2.1 Add Vehicles

Select the desired vehicle list (allow list or block list) and then click [Add] to add the relevant vehicle information.

Add r	new vehicle	×
Basic Setup		
Number plate*		
Name		
Phone		
Vehicle Type	Small Car	\sim
Vehicle Color	Blue	\sim
Description		
	ОК	Cancel

6.2.2 View, Modify or Delete Vehicles

After you add the vehicle, you can view, modify or delete the vehicle information as needed.

Vehicle registration	~	Add	Delete	File impo	ort Expo	ort Template	Export	١	Modify	Delete
Allow List Block List			Numbe	er plate	Name	Phone	Vehicle Type	Vehicle Color	Description	Operation
			A12	3464	Simon		Small Car	Blue		

Select multiple vehicles and then click the [Delete] button to delete multiple vehicle information at once.

6.2.3 Import or Export Vehicles

Click [Export Template]→Export Template(.xlsx/.csv) to export a template. Then fill out the relevant vehicle information.

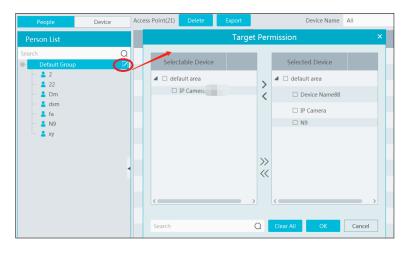
After that, click [File import] to import the vehicle information. Click [Export] to export the added vehicle information.

6.3 Sync Records

Click Home \rightarrow People & Vehicle Management \rightarrow Sync Records to go to the following interface. You can view the sync records or bind the camera to the group or people.

> Binding the group to the device





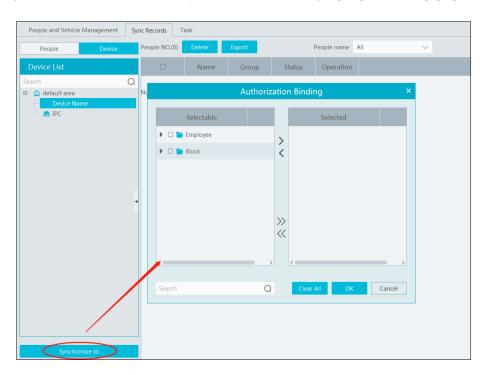
Binding the person to the device

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

People and Vehicle Management S	ync Records	Task							
People Device	Access Point(0) Delete	Export		Device Name	All	\sim	Status All	\sim
Person List		Name	Device Na	Group	Status	Operation			Detail
Search Q	No equipme								
04			Pe	rson Pern	nissions		×		
		Selectable	Device		Selected D	evice			
		▲ □ default area							
		Device	e Name	< X					
		IPC							
	•								
		1		>> <<					
		<		>	<				
/		Search		Q	Clear All	OK Can	icel		
Visitor List									
Block List									
Synchronize to									

Binding the device to the group or person

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



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

6.4 Task Management

Set the face capture source, schedule and applicable scenario.

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People and Vehicle Management Sy	ync Records Task				
Monitoring Point 🗸 🗸	Apply Schedul	e Template			Setup
Search Q					
🗉 💧 default area (Online/Total num	Monitoring Point	Applicable Scenario 🗸	Face Capture Source 🗸	Schedule 🗸	
IP01	*IP01	Vehicle deployment control	Face Capture by IPC	7*24	
IPC					

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

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

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

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

Setup	×
Face Comparison Alarm Block List Stranger Visitor Allow List Refresh OK	
Similarity Similarity(%) 75 Refresh OK	
Intelligent Server Setting Intelligent Server V Enable Face Detection of the Face Recognition IPC	
Refresh OK Send Captured Pictures to FTP	
FTP Server Port 21	
FTP File Path /	
Anonymous	
Refresh OK	

Face Comparison Alarm: Select face comparison alarm list. For example, "Visitor" is selected, when a person is detected and is successfully compared with visitor list, alarms will be triggered. **Similarity**: Set the similarity of the face comparison.

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

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

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

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

7 Search

7.1 Image Search by Face

① Select a picture and picture source.

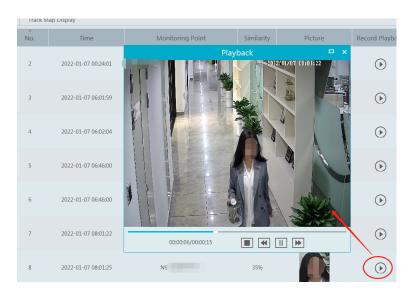
(2) Set the start time and the end time.

(3) Set the maximum count and similarity.

(4) Click [Search].

Image Searc	ch by Face	Face com			e plate mato	hing retrieval Smart Snapsl	not Retrieval Visitor Record				
	gnition NV	′R	~	Search Result Track List View	Track M	Map Display					
Search └── 🔽 🏠 123 ⊡∽ 🗹 🏠 defa			Q		No.	Time	Monitoring Point	Similarity	Picture	Record Playback	Те
	Device Name8	38			1	2022-01-07 00:23:54	N9_	42%		\bigcirc	
					2	2022-01-07 00:24:01	N	36%		\bigcirc	
					3	2022-01-07 06:01:59	N9.	51%		۲	
Select Image		-		4	2022-01-07 06:02:04	N9_	39%		۲		
					5	2022-01-07 06:46:00	Ng	24%		۲	
art Time	2022-01-07 0	0:00:00	~		6	2022-01-07 06:46:00	N9.	26%		(\mathbf{b})	
nd Time	2022-01-07 2		~		7	2022-01-07 08:01:22	N9_	45%		(\mathbf{b})	
lax. Number	100							1070		U	
milarity(%) Search	Previous	s N	16 ext	Select All	Reverse	Clear All Playback Sel	ection				

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



• E-Map Track View:

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

			E-Map Se	etting
Map Management 🗸 🗸 🗸	Create Map Modify Map	Delete Map		
		Create Ma	р	×
	Map Name			
	Parent Map		\sim	
	Map Type C Search	Google Map O	Picture Map	Search
	Search			Search
		ОК	Cancel	
Monitoring Point 🗸 🗸 🗸	_			
Sensor 🗸 🗸				
Previous Next	ack Line Playback by Tracks	E-Map Setting		

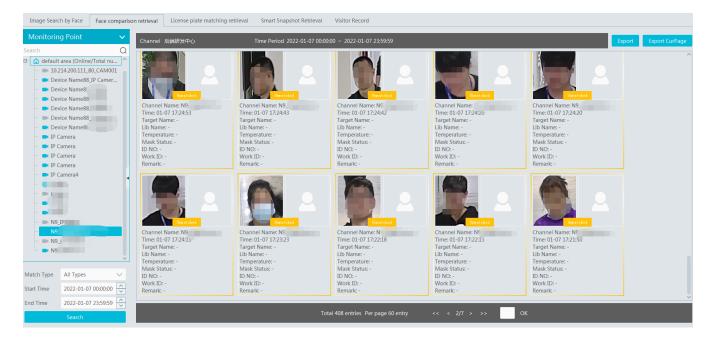
Play Track Line: Click this button to play the track line on a map. Playback by Tracks: Click this button to play the track video.

7.2 Face Comparison Search

(1) Go to Search \rightarrow Face comparison retrieval interface.

② Select the IPC and match type

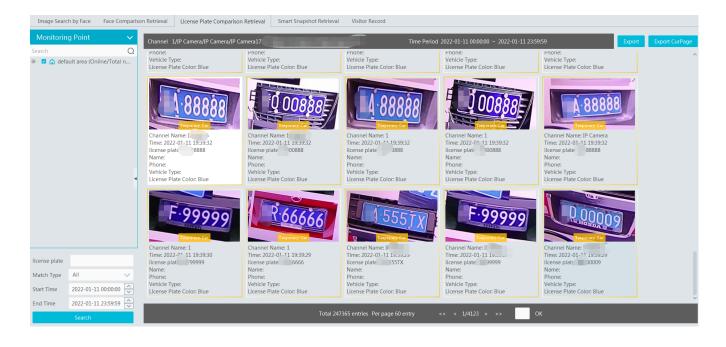
(3) Set the start and end time and then click [Search] to search the face pictures.



7.3 License Plate Comparison Search

- 1. Select the camera.
- 2. Enter the license plate and select the match type.

- 3. Set the start time and end time.
- 4. Click [Search]



7.4 Smart Snapshot Search

The snapshot results from the intelligent server and face recognition devices can be searched. You can search the snapshots of human face, human body, motor vehicle and non-motor vehicle.



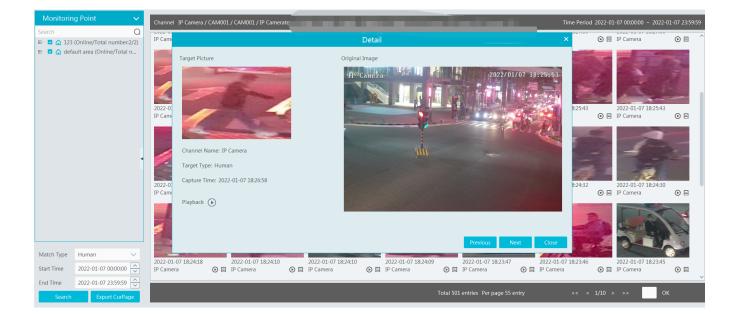
If the snapshot type is human face, put the cursor on the captured picture and then some shortcut buttons will be displayed.



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

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

Human Body/Vehicle Snapshots:



Click it to quickly skip to the playback interface and play the record. Click it to view the snapshot details, including the original image, target picture, snapshot type, snapshot time and so on.

7.5 Visitor Record Search

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

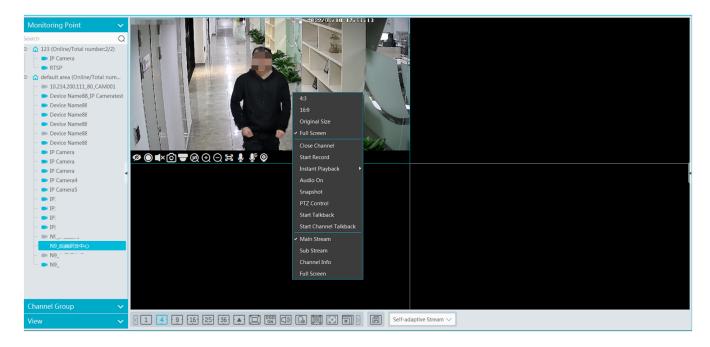
You can also enter the key word in the search bar and click *Q* to search the visitor record.

Click [Export] to export the current visit record to EXCEL file (image included). Only super administrator supports visitor record export.

8 Live View

8.1 Live View

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



The descriptions of the live view buttons are as follows.



NO.	Description	NO.	Description
1	Screen display mode	6	Show the smart event detection area
2	Full screen	7	Show/hide target tracking box
3	Enable/disable OSD	8	Close all preview
4	Enable/disable broadcast	9	Save the current view mode
5	Manual alarm output	10	Choose the camera stream

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
ø	Close image	Ø	3D zoom in
\bigcirc	Start/stop recording	Ð	Zoom in
×	Enable/disable audio	Q	Zoom out
രി	Snapshot	()	Fit to window
	PTZ control	Ų	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

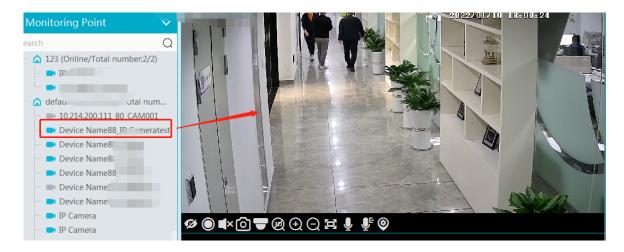
4:3/16:9/Original Size/Full Screen: screen display proportion; please select it as needed.

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

Monitoring Point Viewing

• Start View

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

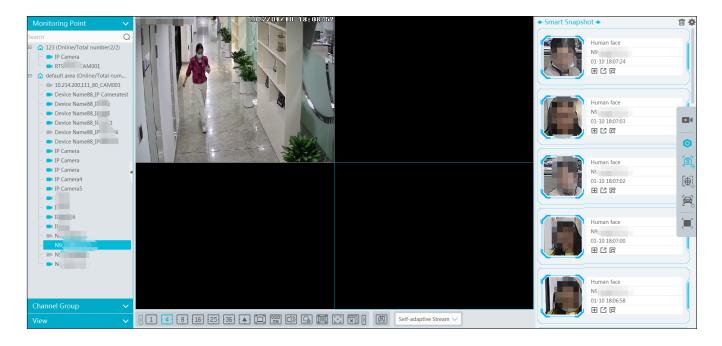


- Stop View
- (1) Place the cursor on the live view window to display the menu toolbar and then click \swarrow to stop viewing.
- (2) Right click on the live view window and then select "Close Channel" to stop viewing.
- ③ Click 🖾 on the toolbar of the live view interface to stop all live view.

8.2 Smart View

In the live view interface, click \square on the right of the interface. A menu bar will be shown on the interface as shown below. Then you can switch the preview mode between video preview and smart viewing mode.

Note: : it is a smart mode icon but not a functional button. You must click the smart display button under it to show the corresponding results.



The descriptions of the button on the right:

Button	Description	Button	Description
	Preview only mode	0	Smart mode icon
	Smart Snapshot: real-time display of snapshots, including face, human body, motor vehicle, non- motor vehicle and vehicle plate.		Face Comparison: Real-time display of face comparison results
Ĩ,	Plate Comparison: Real-time display of license plate comparison results		Full Screen under smart mode

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

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

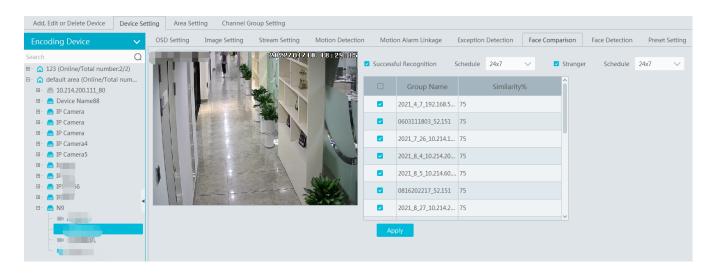
Add, Edit or Delete Device Device Setting Area Setting Channel Group Setting								
Device Type	Server Name	IP Address	Port	Client Connection Status	Authentication Server Connection Sta	Edit		
Encoding Device (Online/Total number:13/1	Intelligent Analysis Server	10.214.11.109	6069	Online	Online			
Decoder (Online/Total number:0/0)						**		
Alarm Host (Online/Total number:0/0)								
Access Control System (Online/Total numbe								
LED Display Device (Online/Total number:0/								
Intelligent Analysis Server (Online/Total nun								
Channel Carlier (Callier (Table and Land 14)								

8.2.1 Face Comparison

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

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

- Create a group, add targets to the group and set Task. Please refer to chapter 6 People & Vehicle Management for details.
 Note: Please remember binding the target with a camera after it is added to a group.
- 2. For the added NVR with face recognition function please set the face comparison parameters by entering Resource Management→Device Setting interface. Refer to the following interface.



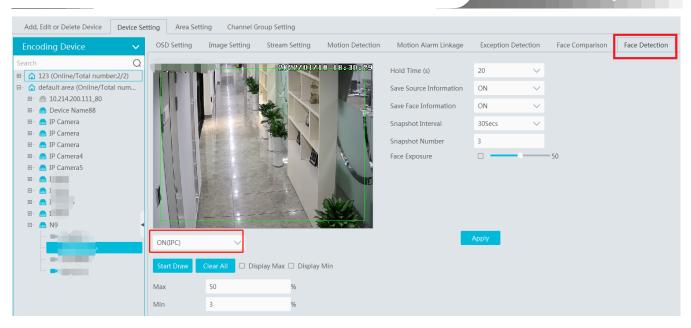
Please select "Successful Recognition" or "Stranger" as needed and then set the schedule separately. After that, check the group and set the similarity. Finally, save the settings by clicking [Apply].

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

			Camera Name		IPC2333	
			Face Rec	ognition	LPR	
Live Display Playback	Search and Backup Intelligent A	Analysis Function Panel	Detection	Recognition	Detection	Recogn
	Function Panel + Face Recognition		Face Data	abase 🧪	Plate Databa	se 🧪
Event Notification Alarm-out E-mail Display Buzzer Push Message Audio Light	Camera Name	IPC2333 ~	Enable 🗹 Succe Parameter Settings	essful Recognition	•	
Alarm Server	Face Recognition	LPR	·		<u> </u>	
AI Event	Detection Recognition	Detection Recognition	Face Group	More 🗹 All	01;	
Face Recognition LPR	Face Database 🌧	Plate Database 🌧	Schedule	24x7	Schedule Managem	ent
People/Vehicle Perimeter More	Enable Successful Recognition	Stranger	Text Prompt			
x44	Parameter Settings Successful Recog	nition Stranger	Enable alarm out	tput pulse(Access Co	ontrol)	
General Event	Face Group	Similarity(%)	Trigger General		Record Configure	
Combination Alarm IPC Offline Exception Handling Settings	01		Push		IPC2333	

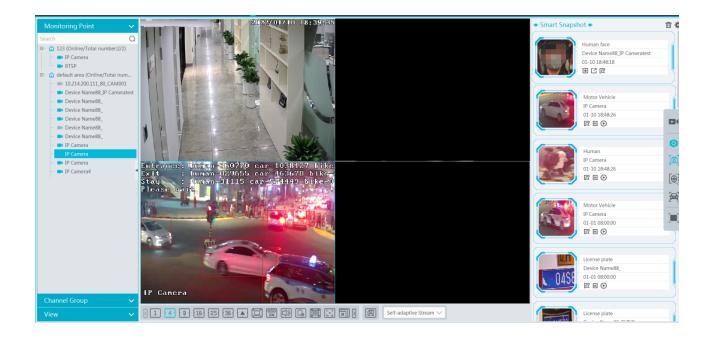
Additionally, please make sure the face detection function is enabled for the AI IPC (click Device Setting→Face Detection).

Viewtron VMS Software



• View the real-time snapshot and comparison result

Face capture results can be pushed by the cameras with face detection function. Human body/motor vehicle/non-motor vehicle capture results can be pushed by the cameras with human/vehicle classification function. Face Comparison and license plate comparison result can be pushed after the face/license plate comparison is configured, even if the corresponding cameras are not playing in the live view interface.

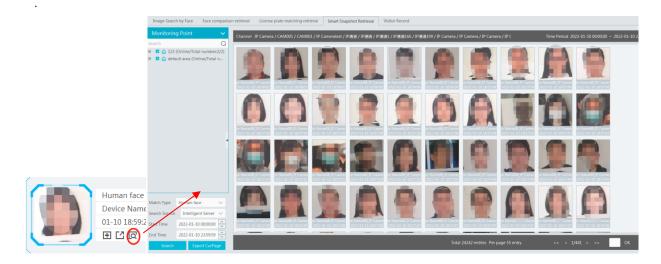


Click 🗊 to add the captured face picture to the person list. Fill in the relevant information and then click [OK].

Viewtron VMS Software

		Add to	o Group				
Person List							
Search	Q	Name*:	e Name88_IP Can	neratest	Birthday:	2022-01-10	^ ~
- Default Group		Gender:	Male	\sim	Country:		
🖵 📄 Employee		Province:			City:		
		Work Type:			Work ID:		
		Telephone:			Card Number:		
		ID Type:	ID Card	\sim	ID NO:		
		Remark:					
		T'					
		1					
Visitor List						or	
Contra .		_/				ОК	Cancel
01-10 18:56:11		01-10 18:56:11		01-1	ce Name88_IP 0 18:56:09 간 더		
		<u> </u>					

Click \Box to quickly enter the smart snapshot retrieval interface.



• Smart snapshot display settings:

Click on the right corner of the live interface to display the configuration window as shown below. Please select the smart snapshot display type as needed. One or more items can be selected.

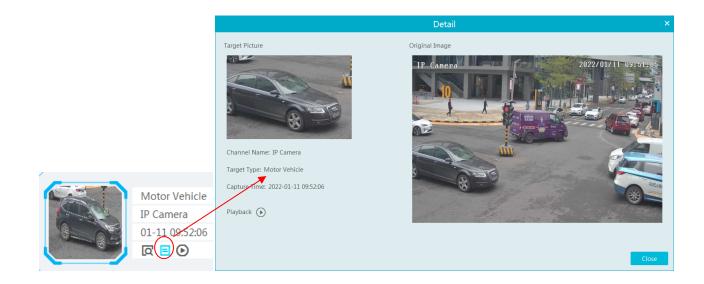
	Configura	tion	×
Smart Snapshot Settings			
Face detection License plate dete	ction 🛛 🗹 Human body detecti	on 🔽 Motor vehicle detectio	on I Non-motor vehicle detection
Face matching settings			
Pop-up prompt Block List 🦲	Allow List 💽 Stra	nger 💽	
Frame Holding Time(s) O Always Sho	ow O Automatically Hide(3s)	O Automatically Hide(5s)	O Automatically Hide(10s)
Statistics display			
□ Pass-by(Today)	Abnormal Temp	Masi	COff
□ Face Comparison(Today)	Block List (people)	□ Strar	iger
	 Face detection License plate detection Face matching settings Pop-up prompt Block List Frame Holding Time(s) Always Shot Statistics display Pass-by(Today) 	Smart Snapshot Settings Face detection E License plate detection E Human body detection Face matching settings Pop-up prompt Block List Allow List Strain Frame Holding Time(s) Always Show Automatically Hide(3s) Statistics display Pass-by(Today) Abnormal Temp	 Face detection License plate detection Human body detection Motor vehicle detection Face matching settings Pop-up prompt Block List Allow List Stranger Frame Holding Time(s) Always Show Automatically Hide(3s) Automatically Hide(5s) Statistics display Pass-by(Today) Abnormal Temp Mask

Click \square to clear the smart snapshot records.

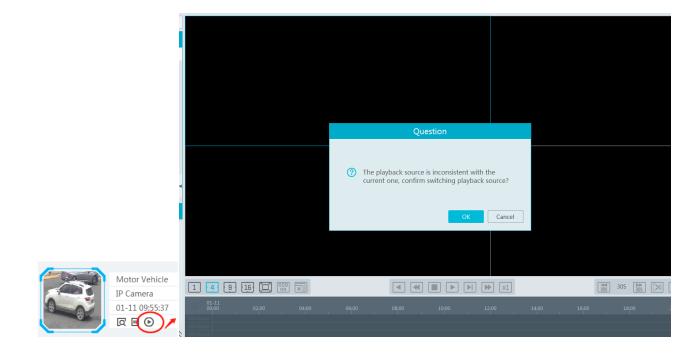


The captured picture can be exported. Click

Click \blacksquare to view the details of the captured picture. Click \bigcirc to play back the records.



Click the playback button next to 🗉. This will take you to the playback interface. Maybe it will pop up the following tips.



Note: Only when the record schedule is set in advance, can the video be played. Click Home \rightarrow Record Setting to enter the record setting interface. Select the desired camera and then select the record schedule.

Viewtron VMS Software

Storage Playback	Record Setting	Schedule Setting				
Record Playback By Time Slice By Event	Area	~	Channel Name	Stream Type 🗸	Record Schedule \checkmark	Audio
By Tag Record Backup Search Picture Record Setting Schedule Setting	Search	Q	*IP Camera	Main Stream	7*24	Open
Record setting schedule setting	123		2702/20 2 0 1 1004			

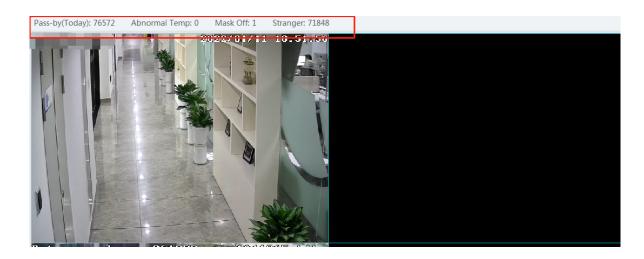
• Face Comparison Settings

Pop-up prompt: if enabled, the alarm box of the corresponding face comparison result will pop up. If disabled, the alarm box will not pop up.

Configuration							
Smart Snapshot Settings							
Face detection	plate detection 🛛 Human body detection 🗹	Motor vehicle detection 🛛 🗹 Non-motor vehicle detect	tion				
Face matching settings							
Pop-up prompt Block List	Allow List C Stranger						
Frame Holding Time(s)	Always Show O Automatically Hide(3s) O Aut	tomatically Hide(5s) O Automatically Hide(10s)					
Statistics display							
Pass-by(Today)	Abnormal Temp	Mask Off					
Face Comparison(Today)	Block List (people)	Stranger					
Vehicle deployment cont	ol settings						

Frame Holding Time: select the alarm pop-up window holding time as needed.

Statistics display: If selected, the corresponding statistical information will displayed on the top of the preview window.



• Face Comparison Records

Click 🗉 to view the face comparison details. Click 🛄 to quickly add the captured face picture to the face database.

Viewtron V	MS S	Software
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			Verified Targ	et Info(det	aile)	×
		Alarm Source:	Device Name88_IP Came	rat Alarm	Fime: 2022-01-1	1 11:02:46
			+			
+ Face Comparison +	直 \$					
	• White List	W.	hite List:100%			
100%	Device Name88_IP 01-11 11:00:09	Name	2022_1_10_16_20_22_5	Gender	Male	
		Birthday		Lib Name		
	• White List	ID Type	ID Card			
	Device Name88_IP	ID No.				
AL AN	01-11 11:00:08	Work ID				
100%				C	K Can	cel

Click 🗖 to quickly enter the face comparison retrieval interface. Select the camera and click [Search] to search the face comparison results.



8.2.2 License Plate Comparison

If this is the first time for you to set the license plate recognition function, please follow the procedures.

Enter Group Management→ People & Vehicle Management→ Vehicle Registration→Add Vehicles →Task Settings→View Real-time License Plate Comparison Results→Search License Plate Comparison Result

 Go to People & Vehicle Management → Vehicle Registration interface. Click [Add] to add the vehicle information to Allow List or Block List.

People and Vehicle Management	Sync Recor	rds Task		
Person List Visitor List Bloc	< List Ve	ehicle Registration		
Vehicle Registration	~ (A	dd Delete File i	mport Export Template	Export
Allow List Block List		A	dd new vehicle	× • Type
		Basic Setup		l Car
		Number plate	*	
		Name		
		Phone		
		Vehicle Type	Small Car	\sim
		Vehicle Color	Blue	\sim
	•	Description		
			ОК	Cancel

2. Click the "Task" tab to setting license plate recognition task. Select the license plate recognition camera and then click applicable scenario. Select "Vehicle deployment control" and click "OK".

People and Vehicle Management	S	nc Records	Task					
Monitoring Point	~	Apply	Schedu	le Template				
arch 🏠 default area (Online/Total num	Q 	Monitorin	ng Point	Applicable Scenario	~	Face Capture Source 🗸	Schedule	~
Device Name_IP01 Device Name_IP03 Device Name_IP04 Device Name_IP05 Device Name_IP07 Device Name_IP07 Device Name_IPC Device Name_M232IE-HFPS		Device Name	e_IPO1	Vehicle deployment control	~	NVR capture face	7*24	

3. Ensure that the license plate recognition IPC has already enabled the license plate detection function.



- License Plate Comparison Display Settings
- Pop-up prompt: if enabled, the alarm box of the corresponding license plate comparison result will pop up. If disabled, the alarm box will not pop up.

Vehicle deployment control settings							
Pop-up prompt Block List	Allow List						
Frame Holding Time(s) • Always	s Show O Automatically Hide(3s) O Autom	atically Hide(5s) O Automatically Hide(10s)					
Statistics display							
Vehicles passing(Today)	Plate Comparison(Today)	Block List (vehicle)					

Frame Holding Time: select the alarm pop-up window holding time as needed.

Statistics display: If selected, the corresponding statistical information will displayed on the top of the preview window.

License Plate Comparison Records •

Click E to view the license plate comparison details.

Verified Target Info(details) ×	IP. 6 01-11 11:41:19 C
Alarm Source: IP Cam Alarm Time: 2022-01-11 11:41:19	• White List
Vhite East	IP Camera5 01-11 11:41:19 ☑
License Plate 85Q87	White List
Name Bandard Bandard	85Q87
Phone	IP Camera5
Vehicle Type Small Car	01-11 11:41:19
Vehicle Color Black	
OK Cancel	• White List

Click Click to quickly go to the license plate comparison retrieval interface.

8.3 Channel Group View

> Channel Group Setting

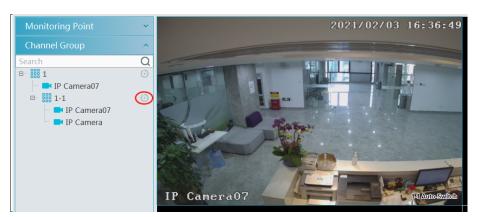
(1) Go to Home \rightarrow Channel Group Setting interface as shown below.

Add, Edit or Delete Device	Device Setting Area Setting	Channel Group Setting	
Add Delete		Add Channel Group	×
Channel Group Name	Channel Group Name		
	Keyboard Number 1		
	Dwell Time 5Sec		\sim
	Parent Channel Group		\sim
	Selectable Device	Selected Devi	ce
	🔺 🗆 default area		
		$\bigotimes_{\mathbf{x}}$	
	IP Camera		
	🗆 IP Camera		
	IP Camera175		
	□ IPC	>>>	
	□ I.	~	
		, , , , , , , , , , , , , , , , , , ,	
	Search Q Sel	ect All Reverse Clear All	OK Cancel

- 2 Click [Add].
- (3) Enter channel group name, channel group and dwell time.
- (4) Select the parent channel group.
- (5) Add channels to the channel group.
- 6 Click [Ok] to save the settings.

Start Channel Group View

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



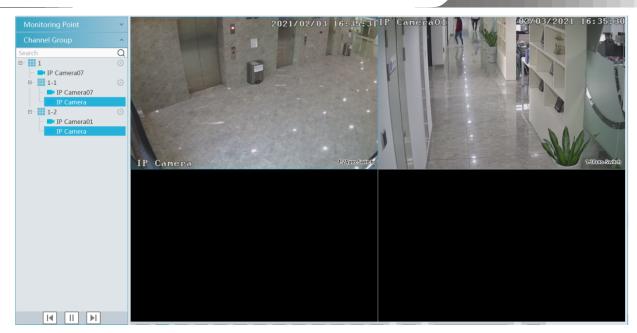
You can start the channel group view as follows.

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

2. In the current screen display mode, select a window and then click (S) beside the channel group name to play all channels of the channel group in this window in sequence.

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

Select a window and click in next to the sub channel group to play all channels of the sub channel group in this window in sequence. 3. If there are several sub channel groups under the parent channel group, click in next to the parent group name and then all sub channel groups will play in sequence. The screen display mode will automatically adapt to the channels of the sub group.



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

> Stop Channel Group View

- ① Place the cursor on the auto-switch window and then click \checkmark 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.



8.4 Plan View

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

					View		^
					🔛 Video Prev	iew1*	
		Home	Live View1*	(+)	Video Prev	Create View	
Monitoring Point	~					Save View	
Channel Group	~					Modify View	
View Live View <u>1</u> *	^					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 in on the live view interface to save the view plan.

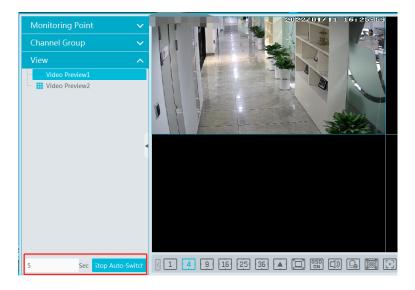
Double click view name to call the view plan.

• Modify or Delete View Plan

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

• Start/stop auto-switch

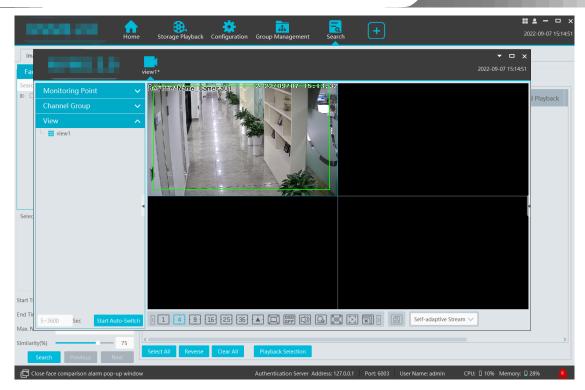
If multiple view plans saved, you can play these views in sequence.



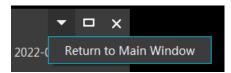
Enter the dwell time (5~3600s) and then click [Start auto-switch] to play these views in sequence. Stop the current auto-switch by clicking [Stop auto-switch].

8.5 Multi-Screen View

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

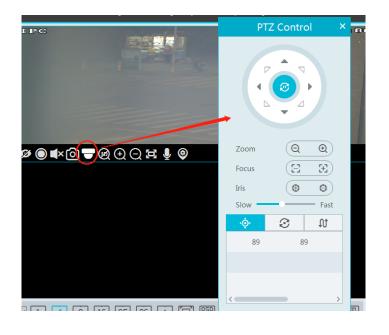


Click on the float window and select "Return to Main Window" to embed this tab in the main interface.



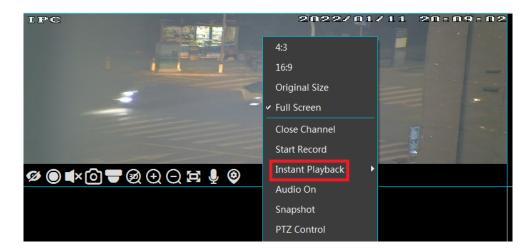
8.6 PTZ Control

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



8.7 Instant Playback

In the live view interface, right click 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 the time that the record exists).



9 Record & Playback

9.1 Record Configuration

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

9.1.1 Schedule Recording

Go to Home→"Record Setting".

Record Setting	Schedule Settin	g									
Area		~	Channel Name	Stream Type 🗸	Record Schedule	~	Audio	~	Recording Before Alarm(Sec)	🖌 After Alarm Time(Sec)	'Expire Time(day) 🗸
Search		Q	*1	Main Stream	7*24		Open		0	60	Never Expire
default area			IP Camera	Main Stream	OFF	~	Open		0	60	Never Expire
			IP Camera	Main Stream	OFF		Open		0	60	Never Expire

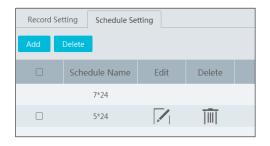
To set schedule recording, select the channel, stream type and schedule. Then Click [Apply] to save the settings.

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

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

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

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



Click [Add].

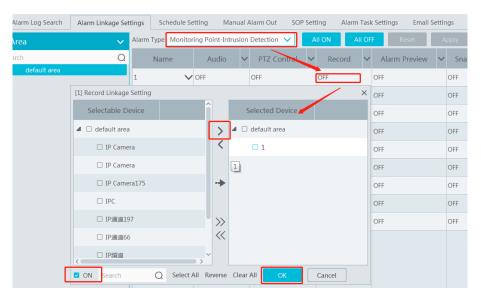
											Add	l Sc	hed	ule									×
Sched	ule N	ame													0	⊘	In	put Manu	ially Se	elect A	All Reve	rse C	lear All
Sun.	C		2		4	1	6		8	1	 10 		12		14	1	 16 		2	 20 	 22 		 24
																	Ι	nput Mar	ually S	Select	All Rev	erse (Clear All
Mon.	C		2		4	1	6	1	8		 10 		12		14	1	 16 	18	2	20	22	1	 24
	08:02	2:00-1	9:35:00)													Ι	nput Mar	ually S	Select	All Rev	erse (Clear All
Tue.	C		2		4		6	1	8	1	10	1	12		14	. :	 16 	18	2	 20 	22	1	24
	07:40	5:00-2	2:27:00)													Ι	nput Mar	ually S	Select	All Rev	erse (Clear All
Wed.	C		2		4	1	6		8	ļ	10	1	12		14	. :	 16 	18	2	20	22		24
	08:38	3:00-2	2:20:00)													Ι	nput Mar	iually S	Select	All Rev	erse (Clear All
Thu.	C		2		4		6	1	8		 10 		12		14	1	 16 	18	2	20	22		 24
																	Ι	nput Mar	iually S	Select	All Rev	erse (Clear Al
Fri.	C		2		4	1	6	1	8		 10 		12	1	14	1	 16 	18	2	 20 	 22 	1	 24
																	Ι	nput Mar	ually S	Select	All Rev	erse (Clear All
Sat.	C		2		4	1	6	1	8		10	1	12	1	14	1	 16 	18	2	 20 	22	1	 24
																	Ι	nput Mar	ually S	Select	All Rev	erse (Clear All
							OK									(Cano	el					

③ Enter the schedule name.

(a) 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.

9.1.2 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 linkage channel and set schedules.
- ③ Click [Apply] to save the settings.

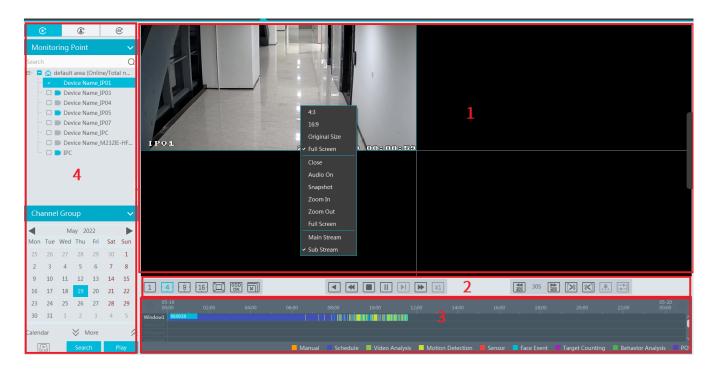


9.2 Record Playback

In the main menu interface, click "Record Playback" to go to record playback interface. Record files saved on the HDD/ SD card of the devices and storage server can be played.

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

9.2.1 Normal Playback



Area Description

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

Toolbar on Playback Window

Button	Description	Button	Description
Ø	Stop viewing	Ð	Zoom in
×	Audio on/off	Θ	Zoom out
Ô	Snapshot	()	Fit to window

Button Descriptions of Area 2:

Button	Description
1 9 16	Screen display mode button. 1/4/9/16 screen mode is optional.
	Full screen
05D ON	Enable or disable OSD
X	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.
×1	Click it to play in normal speed.
	Forward 30s or backward 30s
	Backup start time
8	Backup end time
	Start backup
Image: state sta	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
•	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 **D** 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 (2) and the time scale can be zoomed out by clicking (2). The time scale can be restored to 24 hours by clicking (2). When the time scale is zoomed in, drag the timeline to see the time spots.

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

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

In synchronous mode, one camera can only have one playing window. All cameras' record information can be viewed at the same time. When playing record file in synchronous mode or asynchronous mode, clicking is will be useless unless all the playback windows are closed.

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

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

9.2.2 Smart Playback by Face

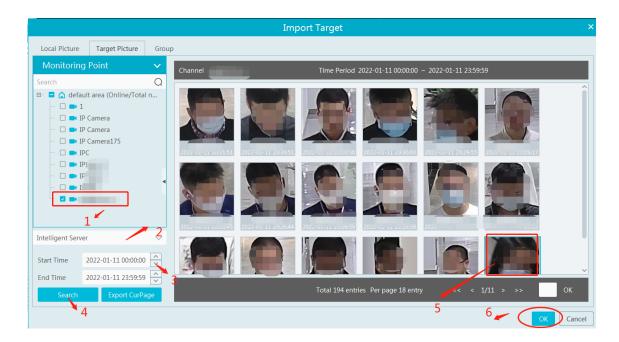
For the added face recognition NVR, you can play back by searching face.

© (E e														
Face Recognit	ion NVR	\sim													
Search		Q													
⊞- 🗌 🏠 default ar	rea														
Select Image															
Start Time 2022	2-05-18 00:00:00	⊕ (1 4 9				• •		▶ ▶ x1	1		30S 🌬 [× × <u>-</u> -	ज , © ∳ ‰ * :	0
	2-05-18 23:59:59	÷	© 05-18 00:00	02:00	04:00	06:00	08:00	10:00	12:00	14:00	16:00	18:00	20:00		05-19 00:00 O
Max. Number 500		_													Î
Similarity(%)	_	60													
	Face Se	arch					📕 Manual	Schedule	Video Analysis	Motion Detection	Sensor	Face Event	Target Counting	Behavior Analy	/sis POS

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

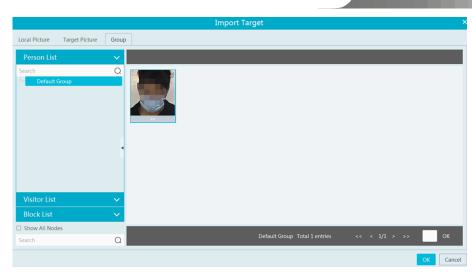
Add a face picture from the local PC: Click 🗄 to select the desired face picture in the local PC and then click [OK] to save the settings.

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



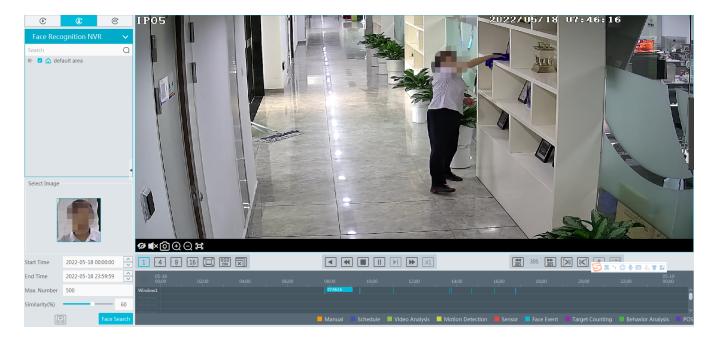
Add a face from the face database:

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



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

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

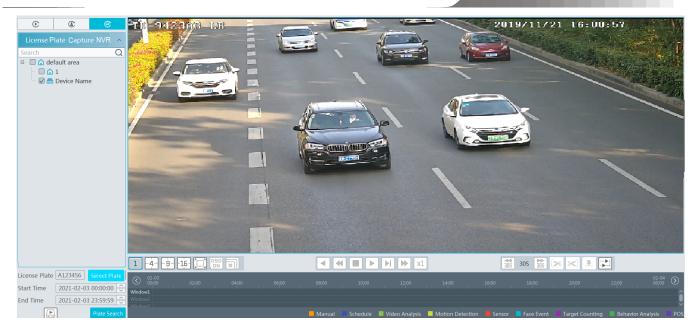


9.2.3 Smart Playback by License Plate

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

1. Select the ANPR camera or NVR.

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



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

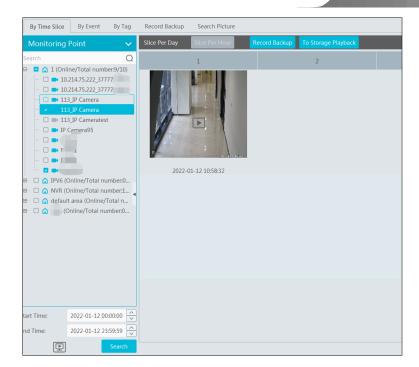
: select the record source from the HDD of the NVR.

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

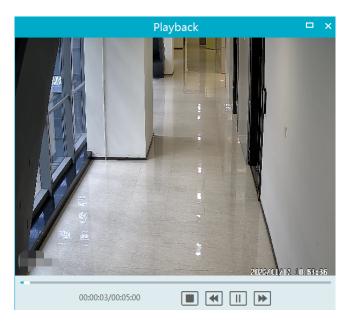
Alarm Log Search Ala	arm Linkage Set	ttings	Schedu	le Se	tting Manual Al	arm	Out SOP S	ettin	g Alarm Task Setting	js	Email Settings S	IRA	Alarm Setting									
Area	~	Alarm T	Type Mor	nitori	ing Point-Vehicle co	ntro	,Black 🗸	All (ON All OFF	R	Reset Apply						Filt	er				Q
Search	Q	Red	cord	~	Alarm Preview	~	Snapshot	\sim	Alarm Output	~	Voice Broadcast	\sim	Open Door	~	TV Wall 🗸	T	rigger Email	~	SOP 🗸	Sched	ule	~
default area		OFF		0	FF		DFF	c	OFF	C	DFF	(OFF	C	DFF	OFF	:		OFF	OFF		
		OFF		0	FF		DFF	(OFF	0	DFF	(OFF	(DFF	OFF			OFF	OFF		
		OFF		0	FF		OFF	c	OFF	C	OFF	0	OFF	0	OFF	OFF			OFF	OFF		
		OFF		0	FF		DFF	(OFF	C	DFF	(OFF	0	DFF	OFF			OFF	OFF		
		ON		0	FF		DFF	0	OFF	C	OFF	0	OFF	0	OFF	OFF			OFF	7*24	\sim]
		OFF		0	FF		DFF	(OFF	0	DFF	(OFF	(DFF	OFF			OFF	OFF		

9.2.4 Playback by Time Slice

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



(3) Click **b** to play the record.



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

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

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

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

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

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

9.2.5 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	Reco	rd Backuj	p Search Picture								
Monitoring Point 🗸 🗸 🗸	Filter			Q Before the event 0	Sec To Storage Playback			Tip: Filter By [Nan	ne]、[Start Time	e]、[End Time]、	[Event Type]
Search Q	N	0.	Name	Start Time	End Time	Duration	Туре	Playback	Record B	Backup S	Backup
🗉 – 🗖 🏠 default area (Online/Total n		1	Device Name_IP01	2022-05-19 11:40:38	2022-05-19 11:40:59	0:0:21		\bigcirc	۲	Main Str	۲
		2	Device Name_IP01	2022-05-19 11:39:15	2022-05-19 11:39:52	0:0:37	Face Event	(\blacktriangleright)	۲	Main Str	۲
		3	Device Name_IP01	2022-05-19 11:39:01	2022-05-19 11:39:40	0:0:39		(\blacktriangleright)	۲	Main Str	۲
		4	Device Name_IP01	2022-05-19 11:36:19	2022-05-19 11:36:55	0:0:36	Face Event	(\blacktriangleright)	۲	Main Str	۲
		5	Device Name_IP01	2022-05-19 11:36:05	2022-05-19 11:36:35	0:0:30		(\blacktriangleright)	۲	Main Str	۲
		6	Device Name_IP01	2022-05-19 11:35:19	2022-05-19 11:35:57	0:0:38	Face Event	(\blacktriangleright)	۲	Main Str	۲
		7	Device Name_IP01	2022-05-19 11:35:13	2022-05-19 11:35:38	0:0:25		\bigcirc	۲	Main Str	۲
		8	Device Name_IP01	2022-05-19 11:34:39	2022-05-19 11:35:15	0:0:36	Face Event	(\blacktriangleright)	۲	Main Str	۲
Start Time: 2022-05-19 00:00:00 (5)		9	Device Name_IP01	2022-05-19 11:33:57	2022-05-19 11:34:58	0:1:1		\bigcirc	۲	Main Str	۲
End Time: 2022-05-19 23:59:59 (3) POS Key Word		10	Device Name_IP01	2022-05-19 11:33:00	2022-05-19 11:33:27	0:0:27		\bigcirc	۲	Main Str	•
Search		V	Manual 🗹 Schedule	🗹 Video Analysis 🛛 🗹 Motior	n Detection 🛛 Sensor 🗹 Fa	ace Event 🛛 🗹 Targe	t Counting 😽 Behavi	or Analysis 🛛 🗸 POS	Current Page:1	/ 11,Total 213	4 * > >

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

9.2.6 Playback by Tag

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

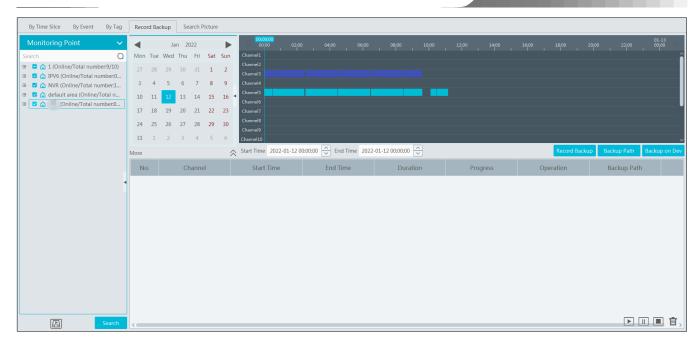
- (1) Go to Home \rightarrow Record Playback interface.
- 2 Select a channel and put the cursor on the right center. Then a tag icon () will appear. Click this icon to add tag.
- 3 Go to Home \rightarrow By Tag interface. Select the start time and click [Refresh] to search the added tags.
- (4) Click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

9.3 Record Backup

In the main menu interface, click "Record 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 (b) 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 🔟 to pause; click 🔳 to stop backing up the record; click

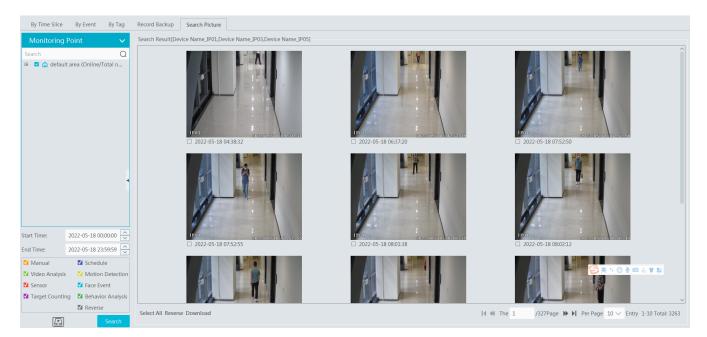
to clear the backup list.



"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.

9.4 Search Picture

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



① Select the device.

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

10 Alarm Management

10.1 Alarm Server Configuration

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

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

Add, Edit or Delete Device Device Setting	Area Setting Cl	nannel Group Setti	ng			
Device Type	Server Name	IP Address	Port	Client Connection Status	Authentication Server Connection Sta	Edit
Encoding Device (Online/Total number:1/1)	Alarm Server	10.214.241.91	6033	Online	Online	
Decoder (Online/Total number:0/0)		TOLET NETTION	0000	oninie	oninic	A.
Alarm Host (Online/Total number:0/0)						
Access Control System (Online/Total number:0/0)						

10.2 Alarm Configuration

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

Add, Edit or Delete Device	Device Set	tting Area Set	tting Channel G	iroup Setting								
Encoding Device	~	OSD Setting	Image Setting	Stream Setting	Privacy Mask Setting	ROI Setting	Focusing Setting	Motion Detection	Motion Alarm Linkage	Exception Detection	License plate detection	F≤►
Search B 💩 default area (Online/Tota B 🖻 IP 197 IP 197	Q I numb	ПЬ 173.3		2022/01/15	17 : 03 : 45 1 1 1	Detection area Display Min Draw area	Shielded area 4 % Clear	2 Display Max 99	%			
		Enable										
	1	Save insp	pection panorama							Apply		
		□ Save the	detection target ma	ap								
		Alarm Holdin	g Time 20 🗸 🗸	1								
		Trigger SD) card snapshot									
		Trigger SD) card recording									
		Trigger en	nail									
		Trigger FT	P									
		FTP Server A	ddress									
		0 1		Send Picture								

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 Type Monito	oring Point-Motior	Detection 🗸	All ON All OFF	Reset	Apply			Filter		Q
Name	Audio 🗸	PTZ Control	∽ Record 🏹	Alarm Preview 🗸	Snapshot 🗸	Alarm Output 🗸	Voice Broadcast 🗸	Open Door 🗸	TV Wall 🗸	Trigger Er
IP 197 🗸 🗸	OFF	OFF	OFF Link to itself (O)n)	OFF	OFF	OFF	OFF	OFF	OFF
single 🗸 🗸	OFF	OFF	OFF Free Choice	Off)	OFF	OFF	OFF	OFF	OFF	OFF

Select area, alarm type and then enable alarm linkages.

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

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

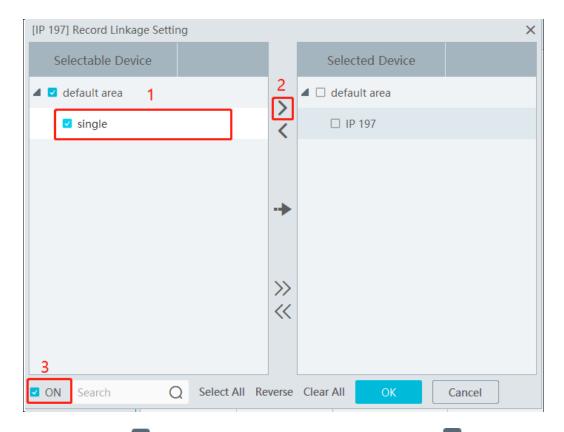
Select 🛛 beside the device name and select "ON" to enable all alarm linkages of the device (schedule excluded).

Alarm Type Monit	toring Point-Motior	n Detection 🗸 🗸	All ON All C	OFF Reset	Apply			Filter		Q
Name	Audio 🗸	PTZ Control	Record 🗸	Alarm Preview 🗸	Snapshot 🗸	Alarm Output 🗸	Voice Broadcast 🗸	Open Door 🗸	TV Wall 🗸	Trigger E
IP 197	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
single ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
OFF										

Select Se

Alarm Type Monitoring	ng Point-Motion	Detection 🗸	All ON All OFF	Reset	Apply			Filter		Q
Name	Audio 🗸	PTZ Control	د Record 🞝 ۸	Alarm Preview 🗸	Snapshot 🗸	Alarm Output 🗸	Voice Broadcast 🗸	Open Door	TV Wall 🗸	Trigger En
IP 197 🗸 OFF	F	OFF	OFF Link to itself (Or		OFF	OFF	OFF	OFF	OFF	OFF
single 🗸 OFF	F	OFF	OFF Free Choice	ff)	OFF	OFF	OFF	OFF	OFF	OFF
				_						

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



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

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

Note: Before checking voice broadcast, please upload the voice first (See chapter 20.7 Audio Uploading for details).

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

③ Set alarm schedule. Select the schedule of the desired device. 7*24 or 5*24 is the default schedule. Other schedules need to be set in

advance. Click the "Schedule Setting" tab to set (See Schedule Recording→To set schedule for details).

Note: 1. For the alarm linkage items related to face recognition, you can set them separately, including face comparison alarm linkage, stranger alarm linkage, block list alarm linkage and visitor alarm linkage.

2. For the combined alarm of DVR/NVR, you can configure the alarm linkage items in the platform. If the combined alarm is set after the NVR/DVR is added to the platform, the platform cannot automatically receive the combined alarm data. Please reboot or reconnect your NVR/DVR and then the platform will display this device under the alarm type of "Encoding device-combined alarm".

10.3 SOP Settings

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

- 1. Click "+" to add a SOP name.
- 2. Click "Create" to create a SOP action.
- 3. In the alarm linkage settings interface, select the alarm event and enable SOP of the relevant device.

Alarm Log Search	Alarm Linkage Settings	Schedule Set	tting Manual Al	arm Out SOP Setting	Ala	rm Task Settings Email Settin	ngs SIRA Alarm S	etting		
Area	V Alarr	n Type Monitori	ng Point-Motion De	tection 🗸 🛛 All Of		All OFF Reset A	pply		Filter	
earch	Q Ali	arm Preview	✓ Snapshot	✓ Alarm Output	~	/oice Broadcast 🗸 Oper	n Door 🗸 🗸 T\	/ Wall 🗸 Trigger E 🗸	sop 🗸	✓ s
default area	DFF		OFF	OFF	OF	SOP Linkage Setting			×	< 7*2·
						UnSelect SOP		Select SOP		
						2 1	5			
							<			
							>>	•		
							<<			
						ON Search Q	Select All Revers	e Clear All OK	Cancel	

- 4. Click to extend the alarm list.
- 5. 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.

	~	Alarm Type Monitoring Poi	nt-Face	e Detection	All ON	All OFF R	eset	Apply			Filter	r		
rch	Q	Name		Audio 🗸	PTZ Control	✓ Record	✓ AI	arm Preview	✓ Snapshot	V Alarm Out	put 🗸 Voice Br	roadcast 🗸 TV	Wall 🗸	Trigg
default area		Device Name_IP01	\sim	OFF	OFF	OFF	OFF		OFF	OFF	OFF	OFF		OFF
		Device Name_IP03	\sim	OFF	OFF	OFF	OFF			Handle Alarn	n SOP	×		OFF
		Device Name_IP04	~	OFF	OFF	OFF	OFF		022-05-18 17:00:53 Device Name_IP01					OFF
		Device Name_IP05	\sim	OFF	OFF	OFF	OFF		Ionitoring Point-Fac Same Alarm Operation					OFF
		Device Name_IP07	~	OFF	OFF	OFF	OFF	Index		on Action	Handling Status	Handling Time		OFF
		Device Name_IPC	\sim	OFF	OFF	OFF	OFF	1	a					OFF
		Device Name_M232IE-HFPS	~	OFF	OFF	OFF	OFF							OFF
	1													
												Save process		
								Disposition	False Alarm	,				
evice Alarm 🛛 Motion Det	tection 🙁	Face Alarm 🐱 Other Intelli	gent Al	arm 🗾 Sensor Al	arm 🛛 Offline A	Narm 1 h			put less than or equ	al to 100 characters			Unhand	
Alarm Time	Ala	irm Source		Alarm Type	✓ Sto	rage Playback D	evice P	Remark			1		isposition	n Re
022-05-18 17:01:04	Devi	ce Name_IP05	Monite	oring Point-Face Co	omparison		0					S 👳 🤊 🙂 🍨	8 & ¥ :	8
022-05-18 17:00:57	Devi	ce Name_IP05	Monite	oring Point-Face Co	omparison		0			ř			1	
	Devi	ce Name_IP05	Monite	oring Point-Face Co	omparison		6	•		~	\mathbb{N}			
022-05-18 17:00:55														

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

Viewtron VMS Software

Device Alarm 🧧 Motion Detection 🚽 Fac	ce Alarm 🛛 Other Intelliger	nt Alarm 🛛 Sensor A	larm 🔽 Combined Ala	arm 🔽 Offline Alarn	n 🗹 Server Alarm 🔽	Alarm Task 🔵	SOP Filter	Unh
Alarm Type	✓ Storage Playback	Device Playback	Storage Snapshot	Device Capture	Alarm Processing	Handling Status	Disposition	Remark
Monitoring Point-Face Detection	n	\bigcirc		~		Processed	False Alarm]
Monitoring Point-Face Compariso	on	\bigcirc		~				
		\bigcirc						

If "SOP Filter" is enabled, the alarm events of the channel set the SOP will be listed.

If "Alarm Preview" is set for the monitoring point, select the corresponding alarm items and then right click to choose "Alarm Preview" to jump to the alarm preview interface.

🗹 Device Alarm 🔽 Motic	on Detection 🛛 Face Alarm 🚽 Other In	telligent Alarm 🛛 Sensor Alarm 🗾 Col	mbined Alarm 🛛 Offli	ne Alarm 🛛 Server A	larm 🔽 Alarm Task 🗆	SOP Filter	Unhand	lled:305 💛
Alarm Time	Alarm Source	Alarm Type 🗸 🗸	Storage Playback	Device Playback	Storage Snapshot	Device Capture	Alarm Processing	Handlin
2022-05-18 17:05:44	Device Name_IP01	Monitoring Point-Motion Detection		$\mathbf{\bullet}$		~		
2022-05-18 17:05:23	Device Name_IP01	Monitoring Point-Face Detection	Al	arm Preview		~		
2022-05-18 17:05:17	Device Name_IP01	Monitoring Point-Motion Detection		$\mathbf{\bullet}$		~		
2022-05-18 17:05:10	Device Name_IP05	Monitoring Point-Motion Detection		\bigcirc		~		
<							— •	$ \approx$,

10.4 Alarm Task Settings

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

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

To set a leaving alarm task:

- 1. Enter the Alarm Task Setting interface.
- 2. Click [Add] to add the alarm task.

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

Multiple cameras can be added to an alarm task.

Alarm Log Search	Alarm Linkage Settings	Schedule Settir	ng	Manual Alarm Out	SOP Setting	Alarm Task	Settings	Email Settings	SIRA Alarm Se	etting
Add Delete								Search		
Task N	ame Channel Number	Channel	Sc			Add A	larm Ta	ask		×
				Task Name Interval Time(min) Schedule	10 7*24					~
				Selectable	Alarm task-Lea Device	aving Alarm		Selected De	evice	
				 default area Camera01 			> <			
							»» «			
				Search Q	Select All Re	everse Clear	All		ОК	Cancel

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

Alarm Log Search	Alarm Linkage Set	tings	Schedule	Setting Mar	ual /	Alarm Out SOP	Se	etting Alarm T	ask Settings Email Set	tir	ngs SIRA Alarr	m Setting						
Area	~	Alar	m Type Alarm	task-Leaving Ala	rm	\sim		All ON All	OFF Reset		Apply			Filter				Q
Search	Q		Name	Audio	\sim	PTZ Control	~	Record 🗸	Alarm Preview 🗸		Snapshot 🗸	Alarm Output	\sim	Voice Broadcast	~	Open Door		TV Wall
been default area		хх	~	OFF	c	DFF		OFF	OFF	c	DFF	OFF	(DFF		OFF	OFF	F
			ON OFF															

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

Add, Edit or Delete Device Device Setting Area Setting Channel Gro	pup Setting				
Encoding Device V OSD Setting Image Setting	Stream Setting Privacy Mask Setting ROI Setting	Motion Detection Motion Alarm Linkage	Line Crossing Detection Intrusion	Exception Detection	Vigilant 🖣 🕨
default area (Online/Total numb i 10214.11.199.9008 i 197 double double single single single single actual area (Database) actual area (Database) actual area (Database) actual area (Database)	Human S	tture t Sensitivity Detection Sensitivity Detection m	- 50 - 50 - 50	-	

Note:

- 1. The selected camera must support and enable intrusion function, or leaving alarm will not take effect. If the camera supports vehicle/people classification, please check "Human" as the detection target.
- 2. After the leaving alarm task is set and intrusion is enabled for the camera, when someone enters the predefined area and stays there, this person will be judged as "ON Duty" so that leaving alarm will not be triggered and the intrusion alarm will not be displayed on the alarm list; but when this person leaves and doesn't return within the set time duration (interval time) or no one appears in the set time duration, leaving alarm will be triggered.

Alarm Log	Search Alar	m Linkage Settings	Schedule Sett	ing Manua	al Alarm Out SOP Se	etting Alarm	Fask Settings	Email Setting	s SIRA Alarm Setting
Add	Delete							Search	
	Task Name	Channel Number	Channel	Schedule	Interval Time(min)	Alarm Type	Edit	Delete	
	XX	1	Camera01	7*24	10	Alarm task-Le		ĪĪĪ	

10.5 Email Settings

Alarm information can be received by the specified Email address if the Email parameters have been set in advance. Click Home→Alarm Center→Email Setting to go to the following interface. Add the sender and recipient's email information here.

Alarm Log Sea	arch Ala	rm Linkage Setting	s Schedule S	Setting Manual A	Alarm Out	SOP Setting	Alarm Task Settings	Email Settings	SIRA
Sender's Name			Email Address						
SMTP Server			SMTP Port		Default				
Security	No	\sim							
Username		\sim	Password						
				Apply	Test				
Add									
							Add Em	nail	×
	mail Addre	ess E dit	Delete	Test Email		0	Add Em	nail	×
	mail Addre	ess E dit	Delete	Test Email	-		Add Em	nail	×
	mail Addre	ess Edit	Delete	Test Email			Recipient	nail	×
	mail Addre	ess Edit	Delete	Test Email	_			nail	×

In the sender's Email information area, fill out the corresponding information and then click "Apply" to save the settings. Clicking on the [Add] button adds the recipient information.

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

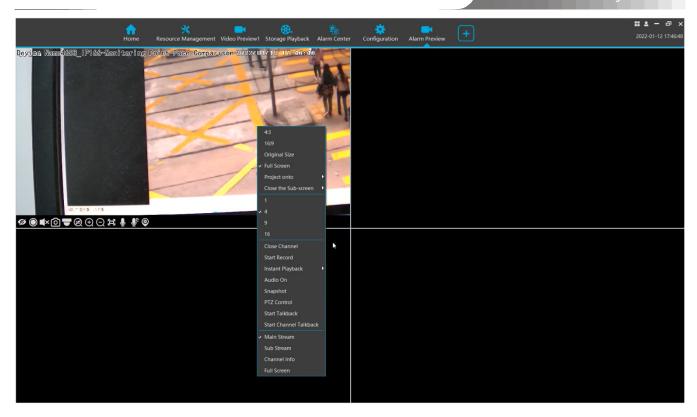
Alarm Log Search	Alarm Linkage Set	tings Schedule Setting	g Manual Alarm	Out SOP Setting	Alarm Task Settings Em	ail Settings SIRA /	Alarm Setting				
Area	~	Alarm Type Alarm task-L	eaving Alarm		All OFF Reset	Apply			Filter		Q
Search	Q	Alarm Preview 🗸	Snapshot 🗸	Alarm Output 🗸	Voice Broadcast	Open Door 🗸	TV Wall 🗸	Trigger Email 🗸	sop 🗸	Schedule 🗸	
default area		OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	

10.6 Alarm View

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

Alarm Log Search	Alarm Linkage Set	ings	Schedule	Setting	Manual	Alarm Out	SOF	^o Settir	ng Alai	rm Tasl	k Settings Em	ail Se	ttings SIRA	Alarm	Setting
Area	~	Alarm Typ	e Monit	oring Point-	Motion	Detection		All	ON	All OF	F Reset		Apply		
Search	Q	Na	me	Audio	\sim	PTZ Contr	ol	~	Record	\sim	Alarm Preview	~	Snapshot	\sim	Alarm
default area		Camera0		OFF		OFF		OF	F	C	DFF	Т	OFF		OFF
		[Came	era01] Ala	arm Preview I	Linkage	Setting						×			
		S	electabl	e Device				S	elected De	evice	×				
			default	area		(2								
			Cam	iera01			<								
			Ŭ												
							•								
	4														
							>> <<								
			Searc	h	Q S	elect All Reve	rse	Clear /		К	Cancel				

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



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

Click 🕑 or 🖾 to play the record or captured images. Right clicking on an alarm item displays a menu as shown below. Click "Alarm Preview" to jump to the alarm preview interface.

Device Alarm Motio	on Detection 🛛 Face Alarm 🚽 Other In	telligent Alarm 🛛 Sensor Alarm 🚽 Com	nbined Alarm 🔽 Offlir	ne Alarm 🛛 Server A	ılarm 🔽 Alarm Task	SOP Filter	Unhand	led:310 💛
Alarm Time	Alarm Source	Alarm Type 🗸	Storage Playback	Device Playback	Storage Snapshot	Device Capture	Alarm Processing	Handlin
2022-05-18 17:05:44	Device Name_IP01	Monitoring Point-Motion Detection		$\mathbf{\bullet}$		~		
2022-05-18 17:05:23	Device Name_IP01	Monitoring Point-Face Detection		\bigcirc		~		
2022-05-18 17:05:17	Device Name_IP01	Monitoring Point-Motion Detection		\bigcirc		~		
2022-05-18 17:05:10	Device Name_IP05	Monitoring Point-Motion Detection		\bigcirc		~		^
				\sim				_ ∧ _ ~

10.7 Alarm Log

Alarm Log Search Alarm Linkage Sett	tings Sched	lule Setting Manual Alarr	m Out SOP Setting Alarm T	ask Settings Email Settin	ngs SIRA Alarm Settin	g	
All Types 🗸 🗸	Start Time 2	022-05-18 00:00:00 🔪 End	d Time 2022-05-18 23:59:59 🔨	Search Export			
	No.	Alarm Time	Alarm Source	Alarm Ty 🗸 D	Details Storage Play	back Device Playback	Storage Snapshot
	1	2022-05-18 17:28:44	Device Name_IP05	Monitoring P		(\mathbf{b})	
	2	2022-05-18 17:28:31	Device Name_IP05	Monitoring P		(\mathbf{b})	
	3	2022-05-18 17:28:14	Device Name_IP05	Monitoring P		(\mathbf{b})	
	4	2022-05-18 17:28:01	Device Name_IP05	Monitoring P		(\mathbf{b})	
	5	2022-05-18 17:27:57	Device Name_IP05	Monitoring P		(\mathbf{b})	
	6	2022-05-18 17:27:57	Device Name_IP05	Monitoring P		(\mathbf{b})	
	7	2022-05-18 17:27:54	Device Name_IP05	Monitoring P		(\mathbf{b})	
	8	2022-05-18 17:27:43	Device Name_IP05	Monitoring P		(\mathbf{b})	
	9	2022-05-18 17:27:40	Device Name_IP05	Monitoring P		(\mathbf{b})	
	10	2022-05-18 17:27:37	Device Name_IP01	Monitoring P		(\mathbf{b})	
	11	2022-05-18 17:27:37	Device Name_IP05	Monitoring P		(\mathbf{b})	
	12	2022-05-18 17:27:33	Device Name_IP05	Monitoring P		(\mathbf{b})	
	13	2022-05-18 17:27:29	Device Name_IP05	Monitoring P		(\mathbf{b})	
Server 🗸	14	2022-05-18 17:27:26	Device Name_IP01	Monitoring P		(\mathbf{b})	
Device 🗸	15	2022-05-18 17:27:21	Device Name_IP05	Monitoring P		(\mathbf{b})	~
Monitoring Point V							>
Sensor 🗸					∢ ≪ The 1 /1	1Page 🍽 📔 Per Page 50	 Entry 1-50 Total: 529

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

	Snapsh	ot Search	×
Monitoring Point 🗸 🗸	Search Result[Device Name_IP05]		
Device Name_JP05	2022-05-18 17:27:54	 2022-05-18 17:28:30 	2022-05-18 17:28:44
	2022-05-18 17:29:01	 2022-05-18 17:29:09 	 2022-05-18 17:29:16
Start Time 2022-05-18 17:27:44 🔿	 2022-05-18 17:29:23 	 2022-05-18 17:29:36 	
Search	Select All Reverse Download	∢ ≪ The 1 /1Pa	ge ▶ ▶ Per Page 10 ∨ Entry 1-8 Total: 8

Check the searched image and then click "Download" at the bottom of the interface to download this picture.

10.8 Manual Alarm Out

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

					Viev	vtron VMS	Software
Alarm Log Search	Alarm Linkage Settings	Schedule Setting	Manual Alarm Out	SOP Setting	Alarm Task Settings	Email Settings	SIRA Alarm Setting
Alarm Output	~						
🖽 🗆 🗋 default area		Alarm Holding Time(s) 5 🗸				
		Trigger Alarm Out	Close Alarm Out				

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

10.9 SIRA Alarm Settings

You can connect the Web Service of SIRA via the alarm server of the platform. After it is connected, the data of the alarm server, including video loss, network disconnection, disk full, disk error, online/offline information of the storage server, will be sent to the web service.

Enable			
No.	123456		
Service address	wstest.videogua	rd.ae	
Port	80		
Protocol	VIDEO GUIARD		\sim
Send heartbeat			
Time interval [s]	300		
	Test	Apply	

Please fill out the above information according to the corresponding information of the Web Service. After it is tested successfully, click "Apply" to save the settings.

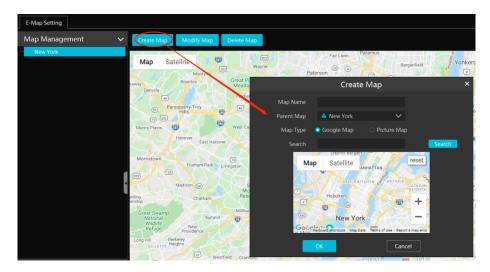
11 E-Map

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.

11.1 E-Map Settings

11.1.1 Create E-Map

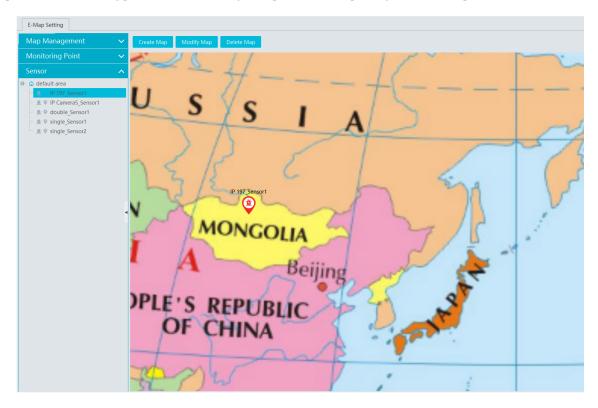
Go to Home→E-Map Setting interface. Click [Create Map] to create a map.



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

11.1.2 Add Hotspot

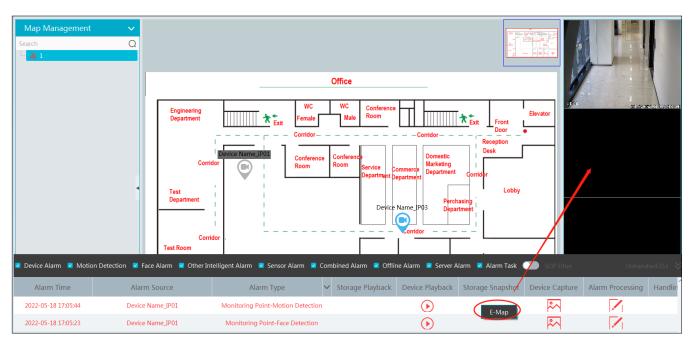
The hotspots include monitoring points and sensors. Drag a hotspot to the corresponding area on the map as shown below.



Click [Modify Map] to change map name and parent map.

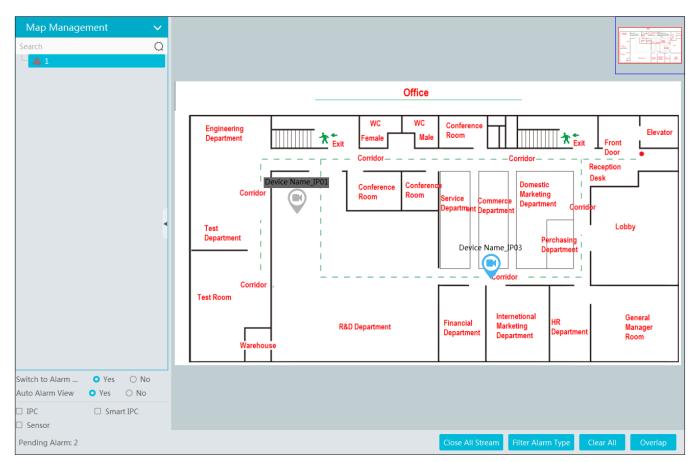
Select [Delete Map] to delete the added map.

Click at the bottom of the interface and then right click on hotspot alarm item. Select "E-Map" to quickly skip to E-map monitoring interface.



11.1.3 E-Map Monitoring

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



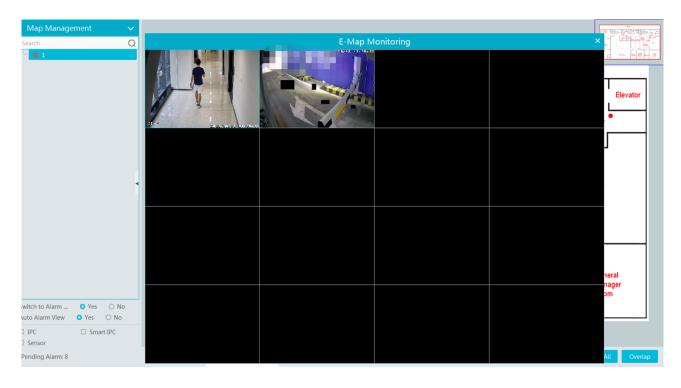
Switch to Alarm EMap: if "Yes" is selected, the system will automatically switch to the E-map on which the alarm occurs. Auto Alarm View

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

Put the cursor on the preview window (right panel) and then a toolbar will display. Clicking on loss the preview. Click "Close All Stream" to stop all previews. The preview window will be overlaid on the map by clicking "Overlap".

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

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



12 TV Wall

12.1 Add TV Wall Server

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

Add, Edit or Delete Device Device Setting A	rea Setting	Channel Group Se	etting					
Device Type	Add	Delete				Search		
Encoding Device (Online/Total number:4/5) Decoder (Online/Total number:0/0)		Server Name	IP Address	Port	Client Connection Status	Authentication Server Connection Sta	Edit	Delete
Alarm Host (Online/Total number:1/1)		TV Wall	10.214.241.91	6036	Online	Online		Ū
Access Control System (Online/Total number:0/0)							<u> </u>	

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.

12.2 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 Setti	ing Area Sett	ing Channel Gr	roup Setting						
Device Type	Add	te			Search				Q
Encoding Device (Online/Total number:1/1) Decoder (Online/Total number:0/0)				Add Deco	der				× _{ele}
Intelligent Analysis Server (Online/Total nun	Quickly Ad		ld			Der	vice Quantity:0	Refresh	
Storage Server (Online/Total number:1/1) Media Transfer Server (Online/Total number		Device Name	IP Address	Port	Subnet Mask	Version	Device ID		
Alarm Server (Online/Total number:1/1)									
TV Wall Server (Online/Total number:1/1)									

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

Create and Connect Decoder

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

Go to Basic Settings -> 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	2.1.3	
Version Date	20210121	
Kernel Version	I4R2-H5F3-H5F3	
	Apply	

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

Device Type	Add	Delete					Search			
Encoding Device (Online/Total number:1/1)	_	A	1							
Decoder (Online/Total number:1/1)		Edit	Device Name	Output Number	IP Address	Port	Online Status	Open in the Browser	Delete	
Intelligent Analysis Server (Online/Total nun			Decoder1	4	10.214.119.30	8888	Online	***	<u> </u>	
Storage Server (Online/Total number:1/1)		*							11	
Media Transfer Server (Online/Total number										
Alarm Server (Online/Total number:1/1)										

12.3 TV Wall Management

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

TV Wall Setting	TV Wall View	TV Wall Task Settings	TV Wall System Setting
TV Wall		~	
TV Wall	+		
Decoder Outp	ut		

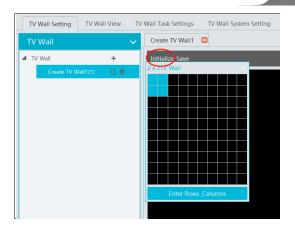
12.3.1 TV Wall Settings

♦ Create TV Wall

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

TV Wall Setting	TV Wall View	TV	Wall Task Settir	ngs	TV Wall System S	Setting
TV Wall		~		Crea	ate TV Wall	×
TV Wall	Ð		TV Wall Serve	er	TV Wall	
			TV Wall	Create	e TV Wall1	
			TV Wall Num	iber 1		
			🗆 Edit ID		ОК	Cancel

- ♦ 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.

*Create TV Wall1 🖪	*Create TV Wali1 🛛		
Initialize Merge Save	Initialize Save		

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

*Create TV Wall1	*Create TV Wall1			
Initialize Split Save	Initialize Save			

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.

• Decoder Binding

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

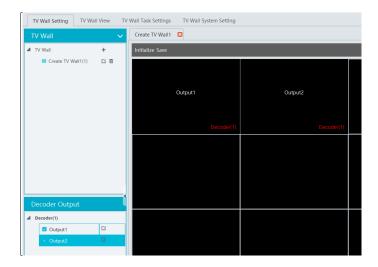
Viewtron VMS Software

TV Wall Setting	TV Wall View	TV Wall Task Setti	ngs TV Wa	all System Setting				
Channel Numbe	er Setting Deco	der Bind Configuratio	on TV Wal	Backup Alarm	setting on Wall			
Device Name	Output Number	IP Address	Port	Online Status	Select TV Wall	Open in the Browser	Edit	
Decoder(1)	2	10.214.48.253	8888	Offline				
						Change Bound	TV Wall	×
					C-II	ect TV Wall		
					Sele			×
						OK Create TV W	all1	

Click 🚺 to change bound TV Wall. After the decoder is bound to the TV Wall, the online status will be "Online".

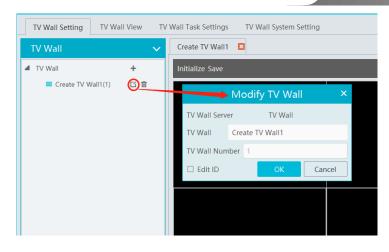
TV Wall Setting TV Wall View TV Wall Task Settings TV Wall System Setting							
Channel Number Setting Decoder Bind Configuration TV Wall Backup Alarm setting on Wall							
Device Name	Output Number	IP Address	Port	Online Status	Select TV Wall	Open in the Browser	Edit
Decoder(1)	2	10.214.48.253	8888	Online	Create TV Wall1		

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.



Modify TV Wall:

Click next to the TV wall name and then modify the TV wall information as needed.



Check "Edit ID" to modify the ID number of the TV wall. Note that the ID number of the TV wall cannot be repeated.

12.3.2 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.

Monitoring Point Preview Channel Group Decoder Input TV Wall Plan Create TV Wall (1) Plan Name 1_Plan_1 Plan No. 1 Edit ID OK Cancel	TV Wall Setting TV Wall View TV	V Wall Task Settings TV Wall System Setting
Decoder Input Create Plan TV Wall Plan Plan Name Create TV Wall1 (1) Image: Create Plan	Monitoring Point Preview	~
TV Wall Plan Create Plan × Create TV Wall1 (1) Image: Create Plan × Plan Name 1_Plan_1 Plan No.	Channel Group	~
TV Wall Plan Plan Name 1_Plan_1 Create TV Wall1 (1) Image: Create TV Wall1 (1) Image: Create TV Wall1 (1)	Decoder Input	
Create TV Wall1 (1)		
	Create TV Wall1 (1)	*
Edit ID OK Cancel		Plan No. 1
		Edit ID OK Cancel

♦ Configure Plan

Double click the plan name to show the plan.

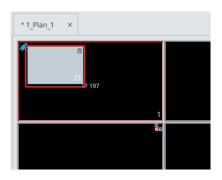
Drag the monitoring points to the corresponding window respectively to decode image.

TV Wall Setting TV Wall View TV Wa	II Tas	k Settings	TV Wall System Setting		
Monitoring Point Preview	^	* 1_Plan_1	×		
Search	Q				
 default area (Online/Total number:3/3) IP 197 double single 			IP 197	1	
				ø	

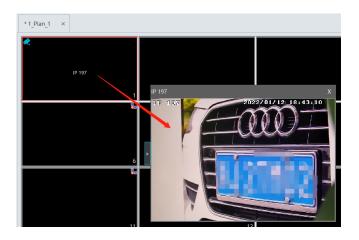


1. Screen mode : 1/4/9/16/25/36 screen mode is optional.

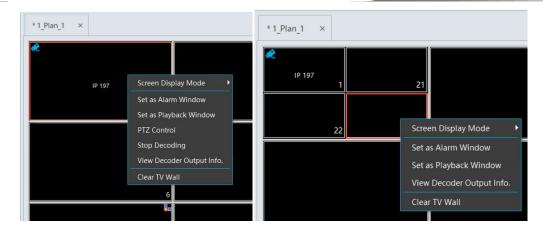
2. Open Window : Click [Enable PIP] and then drag on a window to open a small window on it. Click [Disable PIP] to stop opening window. The small window can be dragged to anywhere on the big window.



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



♦ Right-click Menu



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

2. Zoom in/out : if the current screen mode is multi-screen display mode, click "Zoom In" to zoom in the current image. Click "Zoom Out" menu again to restore to the previous status.

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

	Alarm Log Search Alarm Linkage S	ettings Schedu	le Setting Manu	al Alarm Out SOP S	ietting Alarm T	ask Settings Email Se	ttings Si	IRAAJarm service configuration		
	Area 🗸 🗸	Alarm Type Mo	nitoring Point-Face D	letection 🗸	All ON All	OFF Reset	Apply		Filter	Q
	Search C	Name	Audio 💊	PTZ Control	Record ~	Alarm Preview	' Snapsh	iot 🗸 Alarm Output 🖌 Voice Broa	dcast 🗸 Open Door 🎽 TV	Wall 🗸 Trigger Er
	L default area	IP 197	V OFF	OFF	OFF	OFF	OFF	TV Wall Linkage Setting		× OFF
		double	V OFF	OFF	OFF	OFF	OFF	Selectable Device	Selected Device TV	Wall OFF
		single	V OFF	OFF	OFF	OFF	OFF	🔺 🗆 default area	default area	OFF
								double	V IP 197 Create	TV Wa
								single		
Alarma Cantan										
Alarm Center										
Alarm Log Search Alarm Linkage Settings									»» «	
Alarm Log Search Alarm Linkage Settings Schedule Setting Manual Alarm Out		•							<<	
SOP Setting Alarm Task Settings										
0								ON Search Q Select All Key		
Email Settings SIRA Alarm Setting										

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.

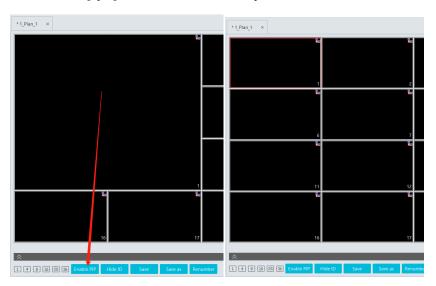
* 1_P	lan_1 ×			
æ		IP 197 View	Decoder (Dutput Info. ×
	No.	Screen Number	Decoder	Decoder Output's Name
	1	1	Decoder(1)	Output1

- 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.

*1_Plan_1 ×		*1.Plan_1 ×
ب ۱۶۲ ۹۲ ۱	 2	*
6	t. 7	IP 107
80 11	 12	
E 16		Re Re 17
 ☆ 1 ④ ⑤ 16 23 36 Screen Merging 	Enable PIP Hide ID Save :	Save 1 4 5 16 22 25 Enable PIP Hide ID Save Save as Renumbe

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.



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

Cı	reate Aut	o-Switch G	roup		
Auto-Switch Name New_Group_Dwell		Auto-Si	witch Interval 10 🚿	/	
Auto-Switch Window	nitoring Poin	t			
1		2	3	4	5
		8	c		10
	1	13	14		15
16	17	18	19		20
				ок	Cancel

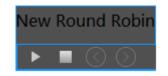
(3) Click "Monitoring Point" to select the auto-switch channel group.

Create Auto-Switch Group ×						
Auto-Switch Window Monitoring Point	o-Switch Interval 10 V					
No Monitoring Point Search Q	IP 197					

(4) Enter auto-switch name and dwell time.

Create Auto-Switch Group ×							
Auto-Switch Name New_Group_Dwell Auto-Switch Interval	10 🗸						
Auto-Switch Window Monitoring Point	10						
+ 全 事 直	20						
No. Monitoring Point Name	30						
1 IP 197	45						
2 double	60						
3 single	120						
	OK Cancel						

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.

♦	Auto-Switch Group
New_Group_Dwell	

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.

\approx	
New_Group_Dwell	+
	Modify
1 4 9 16 2	

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].

TV Wall Setting TV V	Vall View TV V	Vall Tas	k Settings	TV W	/all System Setting		
Monitoring Point	Preview	\sim	1_Plan_2	×			
Channel Group		\sim					
Decoder Input		\sim					
TV Wall Plan		^			Auto-Switch Se	etting	×
Create TV Wall1 (1)	+ 🕞	\succ	No.		Plan Name	Move Up	Operation
iii 1_Plan_1(1)	口面		1		1_Plan_1 (1)	1	Join in
1_Plan_2(2)	60		2		1_Plan_2 (2)	+	Join in
		-					
			Auto-Switc	h Inter	val 10	Save	Cancel

2.Start/stop auto-switch

TV Wall Setting TV Wall View	ew TV Wall Task Settings	TV Wall System Setting
Monitoring Point	Preview V 1_Plan_2	×
Channel Group	~	
Decoder Input	~	
TV Wall Plan	^	
Create TV Wall1 (1)	+ • *	
🗰 1_Plan_1(1)	Start Auto-Switch	
1_Plan_2(2)	C 🖻	

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.

12.3.3 Decoder Input

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

TV Wall Setting TV Wall View	TV Wall Task Se	ttings TV Wa	all System Setting	
Monitoring Point 🛛 🕞 Preview	w 🗸 *	1_Plan_2 ×		
Channel Group	~			
Decoder Input	^			
🔺 🧰 Decoder(1)		Deco	der(1): Input0	
Input0			1	

12.3.4 Playback

Playback on TV Wall

Click "Preview" on the left panel. Then this button becomes "Record". Click at the bottom of the left panel to extend the filtering condition. Click is to get records from device or storage server, check the alarm events and then drag the cameras (or channels) to a window to search and play the records.

1_Plan_1 ×				
B Device Name4653_IP166		8 	8.	
6				
	12	ter		
8 ∎ 16	Ba 17)	5 18	Bai 19]	2 0
★ 1 4 9 16 25 36 Enable PIP	Hide ID Save Save as Ren	Auto-Switch Group umber Pause Stop	Next Frame Previous 30s Next 30s	
0 12:00 14:00 16:0 Channel		22:00 00:00 02:00	04:00 06:00 0	

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.

Note: The frame rate per second will be the same as the set frame rate of the device (Home \rightarrow Device Setting \rightarrow Stream Setting \rightarrow Frame Rate).

Right-click menu

1_Plan_1	×						
₿							
	Device	Name4653_IP166	Scre	en Display Mode	۲		
		-	Set a	as Alarm Window			
					Þ	Recent Channel	
			Play	back Stream Type	۲	Historical Channel	
			Stop	Decoding			
			View	Decoder Output Info.			
			Clea	r TV Wall			
			6			7	
			Ø			52	

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

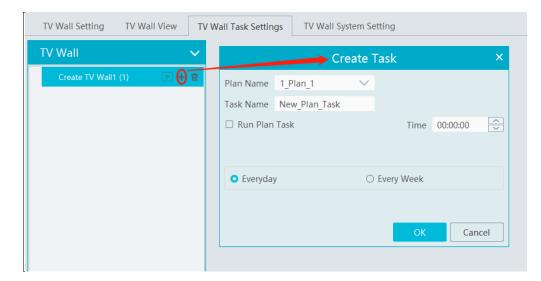
The following picture is an example of TV Wall.



12.3.5 Task Setting of TV Wall

Go to Home→TV Wall Management→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.

TV Wall Setting TV Wall View TV	Wall Task Settings	TV Wall	System Setting	g	
TV Wall ✓ Create TV Wall1 (1) → T		New_Pla 1_Pla Start Time	an_1 e: 00:00:00		
	🗹 Sun. 🔍	Mon.	Tue.	🗹 Wed.	
	🗹 Thu. 🔍	Fri.	🛃 Sat.		
	口面				

Modify or delete task

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

	New_	Plan_Task	
	1_	Plan_1	
	Start Ti	me: 00:00:00	
	□ A	Auto Run	
🗹 Sun.	Mon.	🛃 Tue.	Wed.
🗹 Thu.	🗹 Fri.	🔽 Sat.	
	E	<u>ت</u> ک	

Click \square or $\boxed{10}$ to modify or delete the task.

12.3.6 TV Wall System Configuration

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

Channel Number Settings

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

[
TV Wall Setting TV Wall View TV	/ Wall Task	Settings TV Wall System Setting			
Channel Number Setting Decoder B	ind Configu	uration TV Wall Backup Alarm setting on Wall			
Monitoring Point 🗸 🗸	No.	Name	Channel Number		Conflicts Between Channels' Number
Search Q	1	default area>IP 197	5		
🗉 🍙 default area (Online/Total numb	2	default area>single	1		
	3	default area>double	2		
	h dia la sua	Careful Tana Chargest Number 2		Export Channel Number Save Cancel	
	winimum	Conflict-Free Channel Number: 3		Export Channel Number Save Cancel	

> TV Wall Backup

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

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

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

TV Wall Alarm Linkage Settings

Click "Alarm setting on wall" and then the alarm closing time can be set. If "Automatically closing alarm on Wall" is selected, you can set the time that TV wall alarm automatically turns off. The alarm preview window will automatically turn off the alarm linkage video according to the set time until next alarm is triggered. If not selected, you need to close the alarm preview window manually.

13 Target Counting

13.1 Task Management

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

Note: the added camera must enable target counting function.

IPC with Target Counting function

Add, Edit or Delete Device	Device Setting	Area Setting	Channel Grou	p Setting			
Encoding Device	n In	trusion Exce	ption Detection	Privacy Mask Setting	ROI Setting	Target Counting	Preset Setting
Search Search Gefault area Gefault area	☑ ON Alert L □ Sa ☑ M ☑ Hu	ve Panoramic Pie otor Vehicle Se uman Sensitivit	ection $B \rightarrow A \checkmark$ thure \Box Save Targ ensitivity Detection y Detection	et Cutout	*	50	
		on-motor venicle	Sensitivity Dete	cuon	÷	50	

2. Go to Home \rightarrow Target Counting interface. Clicking on enters the following interface. Select the camera with the target counting function and then enable it. After that, click [Apply] to save the settings.

Real-time Statistics Heat Map	Historical Statistics Flow	(Control							(
Monitoring Point Search Q B ⁺ Charles (Online/Total n)	Flow Statis	stics		Compared to	the same period Yes	terday 🗸 I	Human 🗸 🗸	Auto Refresh Ir	nterval: 1 minute C 💽
	Date: 2022-09-13 Statistical Type: F Monitoring Point		т	ask Management	Q		×		
		Monitoring Point 🗸 🗸	No.	IP Channel Name		Enabled \checkmark	Event Type 🗧		
	0	Search Q B- 🙆 default area (Online/Total num		Device Name_Camera01	ĪĪĪ	OFF	No Configuration		0
	Total NO.(If		2	IPC	TĪĪT	ON		Yesterday	Inside
	Statistics o								k k in s
			Voice alarm aler	t Please wait			Apply		

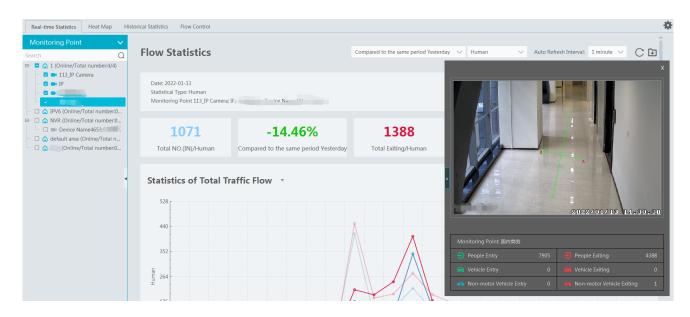
13.2 Real-time Statistics

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

Viewtron VMS Software

automatically analyze the traffic flow trends.

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

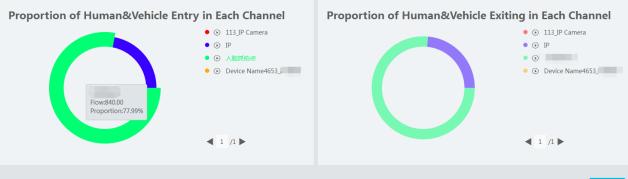


Please select the type as needed to view the flow trend. Click C to refresh the current statistics.

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



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



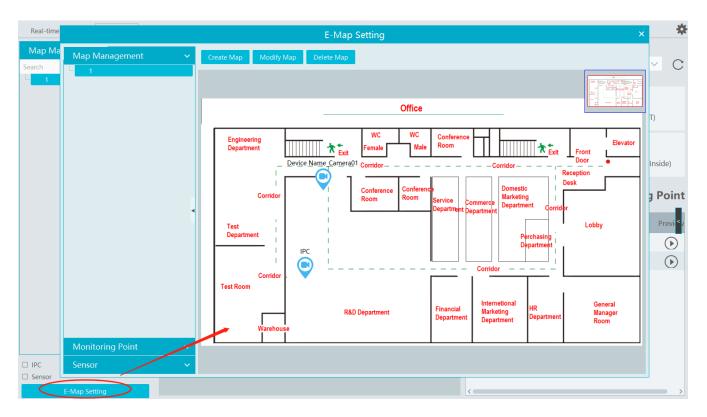
	~ ··	-	
larget	Counting	lable	(Human)

Location Name	Туре	00:00~01:00	01:00~02:00	02:00~03:00	03:00~04:00	04:00~05:00	05:00~06:00	06:00~07:00	07:00~(Subtotal	Average
113_IP Camera	Out	0	0	0	0	0	0	0	0	0	0
IÞ	Enter	0							0	237	9
1P	Out	0							0	327	13
	Enter	0							0	840	35
	Out	0							0	1064	44
Device Name4653	Enter	0	0	0	0	0	0	0	0	0	0
1	Out	0	0	0	0	0	0	0	0	0	0

13.3 Heat Map

Go to Home→Target Counting→Heat Map interface.

Please create a map first.



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

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



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

13.4 Historical Statistics

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

Real-time Statistics Heat Map Historical Statist	Flow Control	*
Monitoring Point V Search Q B V 1 (Online/Total numbers//4)	Traffic Flow Statistics	Export Picture
	Date : 2022-01-13 Statistic Type : Human Report Type : Daily Report Monitoring Points : 113_IP Camera; IP	
	9054 2263 5876 1469 Total NO. (IN) Average traffic flow of each channel Total NO. (OUT) Average traffic flow of each channel	3178 Inside
	Statistics of Total Traffic Flow -	և
	9402	
Statistic Type : Human V	7835	
Report Type : Daily Report 🗸		
Date: 👸 🛅 2022-01-13	6268 -	
Filter Channel Search Export Excel		~

13.5 Flow Control

Flow Control: Control the people/vehicles entering or exiting in a specified area to avoid overcrowding. When the people/vehicles stay in the specified area exceeds the threshold, the alarm will be triggered and no entry icon will display.

Click Home→Target Counting→Flow Control to enter the following interface.

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

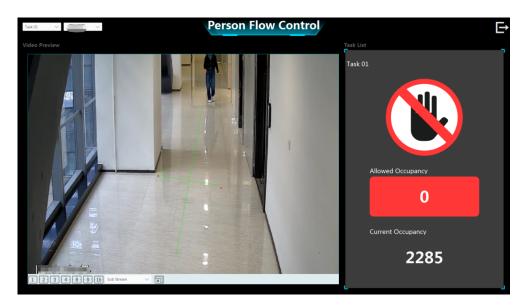
Real-time Statistics	Heat Map	Historical Statistics	Flow Control						
Task list									
Г						Add	Task		×
				Task Name	Task 01				
	(Maximum Threshold Type	Human				\sim
	(-	┏) -		Schedule	7*24				~
				Selectable	Device			Selected Device	
L				4 🗆 1			>		
				113_IP Camer	а		<		
				□ IP					
						>	>		
				Device Name	4653_J	<	<		
				<		>	<		 >
				Search C) Select All Reverse	e Clear A	11	ОК	Cancel

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

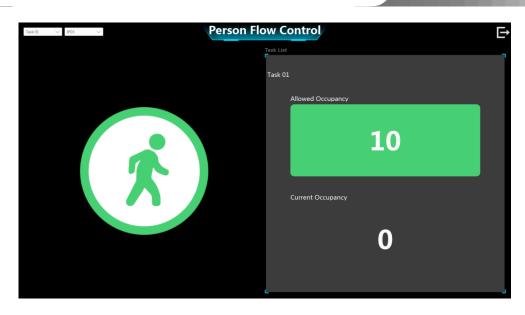


Click to view the quantities of the people/vehicles entry and exiting.

Click to enter the flow control preview interface.



Click **D** to view the access status and the allowed/current occupancy.



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

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

14 User and Permission

14.1 User Management

Go to Home→User and Permission.

User Mar	User Management Online User Management Online User Management							
Add	Add Delete Edit Security Questions / Answers							
	Account Name	Enabled	Select Permission Group	MAC Address	Bind MAC Address	Edit	Delete	
	admin	ON	Super Administrator	00:00:00:00:00:00	OFF		Ī	

There is a default super admin user (the username is admin; the password is 123456). The super admin user cannot be deleted.

If it is the first time for you to log in, please select the super admin user and then click "Create Security Questions/Answers" to set the questions and answers. It is very important to reset the password if you forget your password.

User M	anageme	nt Permission Management Online User Management	Edit	Security Questions / Answers	×
Add	Delete	E Elecurity Questions / Answer	Create Security Questions / Answ	vers	
			Question:	~	
	Acc	Edit Security Questions / Answers × C Addre	Answer:		
	admi	0:00:00:00	Question:	~	
		User Name admin	Answer:		
		Password Enter Password	Question:	~	
			Answer:		
		OK Cancel			
	L			0	K Cancel

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

	Add User	×
Enable	٥	
User Name*		
Old Password*	Enter Password	
Password*	Enter Password	
Confirm Password*	Enter Password	
Password strength*	○ Weak ○ Middle ● Strong	
	Contains four types of uppercase letters, lowercase letters, numbers and specia characters, and the password length is not less than 8 digits!	1
Display Password		
Permission Group*		/
Bind MAC Address	: : : : :	
Remark		
	OK	

Enter user name and password. Then select password level, 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.

14.2 Permission Management

Go to Home \rightarrow User and Permission \rightarrow Permission Management.

① Click [Add] to create permission group.

ermission Management On	line User Management			
		Add Permis	sion Group	×
Permission Group Name				
System Permission Op	peration Permission	Area Permission	TV Wall Permission	Target Permission
Select All Reverse Clear All				
Resource Management		Server Management		Record Setting
Alarm Management		E-Map		TV Wall Management
Configuration		Target Counting		Search
Group Management		Data Dashboard		
	ОК			Cancel
	Permission Group Name System Permission Of Select All Reverse Clear All Resource Management Alarm Management Configuration	Permission Group Name System Permission Operation Permission Select All Reverse Clear All Resource Management Alarm Management Group Management	Add Permission Permission Group Name System Permission Operation Permission Area Permission Select All Reverse Clear All Resource Management Alarm Management E-Map Configuration Group Management Data Dashboard	Permission Group Name System Permission Operation Permission Area Permission TV Wall Permission Select All Reverse Clear All

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

14.3 Online User Management

In this interface, you can view the online user who log onto the management server. The user type includes monitoring client, web client, platform SDK, APP, etc.

User Mana	gement Permissio	Online User Mar	nagement		
No.	Address	User Name	User Type	Level	
1	10.20.52.7	admin	Monitoring client	Super Administr	

15 Operation and Maintenance Management

15.1 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 searched and exported here.

Check and E	Check and Export Log Backup and Restore Configuration Real-time Status Status Log										
All Types Alarm Log Operation Log Config Log Exception Log											
Start Time 20	22-01-13 00:00:00	nd Time 2022-01-13 23:59:59	Search Export								
No.	Main Type	Record Time	Node Name	Sub Type 🗸 🗸	User Name	User Address	Details	Storage Playback	Device Playback	Storage	
1	Alarm Log	2022-01-13 14:58:56	I	Monitoring Point-Fa	None	None					
2	Alarm Log	2022-01-13 14:58:55	Device Name4653_IP166	Monitoring Point-Fa	None	None			(\mathbf{b})		
3	Alarm Log	2022-01-13 14:58:53	Device Name4653_IP166	Monitoring Point-Fa	None	None			\bigcirc		
4	Alarm Log	2022-01-13 14:58:53		Monitoring Point-M	None	None					
5	Alarm Log	2022-01-13 14:58:52		Monitoring Point-Pe	None	None					
6	Alarm Log	2022-01-13 14:58:51	I	Monitoring Point-Fa	None	None					
7	Operation Log	2022-01-13 14:58:51		Barrier Gate	None	None	OFF:I				

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.

15.2 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	Real-time Status	Status Log
Backup System Configu	uration Restore System Configure	ation	
Caution: It will take several restart automatically after re	, , , , , , , , , , , , , , , , , , , ,	1. Do not shut down th	e computer during restoring. The authentication server will

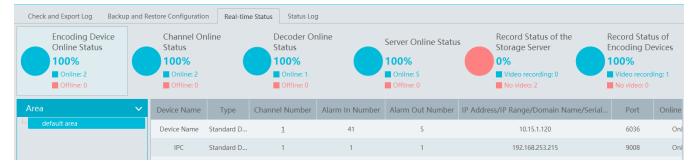
You can import the former system configuration files to the new version. Click [Backup System Configuration] in the last version to backup the system configuration files. Additionally, TV wall configuration also can be backed up as needed. Then click [Restore System Configuration] in the new version to restore the system configuration.

For TV Wall configuration restoration, you need to go to Home \rightarrow TV Wall Management \rightarrow TV Wall System Setting \rightarrow TV Wall Backup interface and then restore TV Wall configuration by clicking [Restore TV Wall].

15.3 Viewing Online Status

Go to Home→Operation and Maintenance Management→Online Status interface.

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



15.4 Viewing Status Log

Go to Home→Operation and Maintenance Management→ Status Log interface.

Check and	Export Log Backup and	l Restore Configurat	ion Real-time	e Status	Status Log
Start Time 2	022-01-13 00:00:00 × E	nd Time 2022-01-1	3 23:59:59 🔪	Search	Export
No.	Туре 🗸	Record Time	Node Name	Details	;
1	Server online	2022-01-13 14:			
2	Server offline	2022-01-13 14:			
3	Encoding device online	2022-01-13 14:	IP		
4	Monitor online	2022-01-13 14:	IF		
5	Encoding device online	2022-01-13 14:	IP Camera5		
6	Monitor online	2022-01-13 14:	IP Camera5		

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

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

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

16 Configuration

16.1 Record and Snapshot Settings

Go to Home \rightarrow Configuration.

From Network Device	\sim	
C:/record	-	
C:/backup	_	
AVI	\sim	
C:/capture		
5		
512MB () 1GB () 2GB		
Apply		
с с	:/record :/backup .v/I :/capture	

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.

16.2 Local Settings

Go to Home \rightarrow Configuration \rightarrow Local Setting.

Auto Startup	
Auto Login	
Trigger audio when the node is offline	
Show tips when the node is offline	
Full name display for DVR/NVR's channels	
Resource tree automatically expands	
Substream display of new view	
Show alarm state for the monitoring point	
Show device name on E-map	
Verify the password before exiting the program	
Decoding Mode	 Soft Decoding Hardware Decoding
Resource Tree Sorting Rules	• Sort by Name O Sort by Time
Video Configuration Rules	 Specification First Clarity First
Select Language	English(United States)
Temperature Unit	°C 🗸
Time Display Format	yyyy-MM-dd hh:mm:ss
Alarm Sound	Default Audio 🗧 🏟
Node Dropped Sound	Default Audio 🛅 📫
Sensor Alarm Sound	Default Audio 📄 📫
	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.

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

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

Full name display for DVR/NVR's channels: if enabled, the DVR/NVR's channel name listed in the resource tree will show the DVR/NVR

name and the channel name. If disabled, only the channel name is shown.

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

Show alarm state for the monitoring point: if enabled, the alarm state will be displayed in the monitoring point list as shown below.



Show device name on E-Map: if enabled, the device name will be displayed on the E-Map.

Decoding Mode: Soft decoding or hardware decoding is optional. When the graphics card doesn't support hardware decoding, please select

"Soft Decoding" and the video decoding will be taken over by CPU.

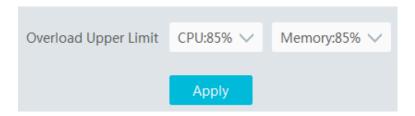
Temperature Unit: °C or °F can be selected

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

In this interface, you can also select the resource tree sorting rules, video configuration rules, language, time display format and upload various alarm audio files.

16.3 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 Configuration \rightarrow Overload Setting. Select the overload upper limit and then click [Apply] to save the settings.



16.4 Alarm View Settings

Go to Home→ Configuration→Alarm View Setting.

Record and Snapshot Setting	Local Setting	Overload Setting	Alarm View Setting	OSD Position Setting	POS Config
Automatic Pop-up Alarm Page					
	Full screen	display when poppin	g up Full Screen Display	DISPLAY1	
Close Alarm Page	• O Auto Shutd	own 🔿 Manual Shu	tdown		
	Time 30Sec	\sim			
Number of Screens	4	~			
	Apply				

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).

16.5 OSD Position Configuration

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



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

16.6 System Configuration

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

System Name	
Alarm Preview Using Third Stream	
Hide Alarms Beyond the Alarm Linkage Schedule	
Same Alarm Reporting Interval	
Device Time Correction	Device Time Correction (Automatic synchronization of platform time to equipment every 2 hours) Synchronize Platform Time
Service Fault Determination Time	1 V Mins
Log Retention Time:	365 Day
License Plate Language	Default 🗸
	Apply Reset

In this interface, you can enable "Alarm preview using third stream".

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.

Hide alarms beyond the alarm linkage schedule: Alarms will not be viewed beyond the alarm linkage schedule.

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

16.7 POS information Settings

Go to Home \rightarrow Configuration \rightarrow POS Config interface as shown below. In this interface, you can set the position, display time and quantity of the POS information.

Record and Snapsh	not Setting	Local Setting	Overload Setting	Alarm View Setting	OSD Position Setting	POS Config
Х	0					
Y	60					
Duration (s)	30					
Duration (3)	50					
Max number	10					
	Apply					

Note: The video files with POS information saved as DAT format can be played with DatPlayer and the POS information will be shown on the screen.

16.8 Audio Uploading

Go to Home→ Configuration→Audio Uploading. Click [Add] to bring the following box.

Record a	ind Snapshot Setting	Local Setting	Overload Setting	Alarm View Setting	OSD Position Setting	POS Config	System Setting	Audio Uploading Setting
Add	Delete						Search	
	A	udio Upload	ling Setting	×				
	Audio Name							
	Choose voice file			()				
			ate of 16000Hz, 16 bit size not more than 2M	s per				

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

17 Data Dashboard

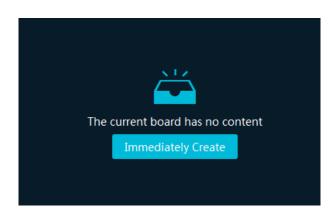
Before opening the data dashboard, please makes sure the intelligent server is online.

Go to Home→Resource Management→Intelligent Analysis Server interface. There is a default intelligent server and make sure it is online.

Add, Edit or Delete Device Device Setting Area Setting Channel Group Setting								
Device Type		Edit	Server Name	IP Address	Port	Client Connection Status	Authentication Server Connection	
Encoding Device (Online/Total n Decoder (Online/Total number:0/			Intelligent Analysis Server	10.20.52.7	6069	Online	Online	
Intelligent Analysis Server (Online Storage Server (Online/Total num								

17.1 Create Intelligent Dashboard

Go to Home \rightarrow Intelligent Dashboard.



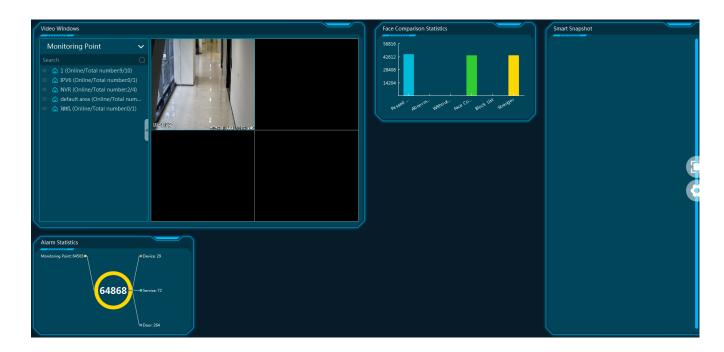
Click [Immediately Create] to create the layout of the data dashboard. Drag the module you want to display to the right preview window as needed. After that, click [OK] to save the settings.

			Layout	×
Basic Module		î	Preview	
Video Windows	Device Status		Device Status	
Alarm Statistics	Calendar		Video Windows	
Face Comparison				
Face Comparison Statistics	Face Comparison Record			
E-Map				
E-Map Monitoring	Heat Map		Property Setting(Video Windows)	
Smart Snapshot				
Smart Snapshot			No Configuration	
Traffic Flow Statis	tics	~		
<		Ň		>
			OK	

Hover the cursor onto the module in the preview window and then you will see a deletion button (\boxtimes). Click it to remove the module from the preview window.

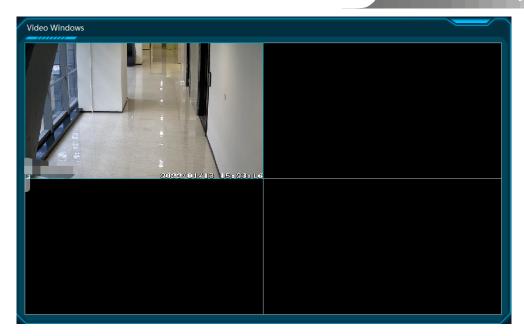
		Layout	×
Basic Module		Preview	
Video Windows	Device Status	Device Status	
Alarm Statistics	Calendar	Video Windows	
Face Comparison			
Face Comparison Statistics	Face Comparison Record		
E-Map			
E-Map Monitoring	Heat Map	Property Setting(Video Windows)	
Smart Snapshot			
Smart Snapshot		No Configuration	
Traffic Flow Statist	tics		
<		>	>
		OK	el

After the data dashboard is created, click to display it in full screen mode. Click or ESC to exit the full screen mode. Click to set the layout of the dashboard.



17.2 Basic Module

Video window supports 4-screen display mode. Click to extend the monitoring points. Drag the camera to the preview window or double click the camera to play the video. You can drag the playing window to other windows.



Other modules can set its attributes that you want to display as needed.

			Layout ×
	Basic Module	î	Preview
	Video Windows	Device Status	Device Status
	Alarm Statistics	Calendar	Video Windows
	Face Comparison		
	Face Comparison Statistics	Face Comparison Record	
	E-Map		
	E-Map Monitoring	Heat Map	Property Setting(Device Status)
	Smart Snapshot		Encoding Device Online Status Decoder Online Status
	Smart Snapshot		Record Status of the Storage Server Record Status
	Traffic Flow Statis	tics	
	<	>	,
			OK Cancel
Device Statu Record(Encod Record(Stor	ingDevice) - 1/ ageServer) - (Server - Decoder - 1/	Online 0/2 Offline 5/5 1 2/2 4 6 8 10	Alarm Statistics P Service: 2 335 Monitoring Point: 333 Monitoring Point: 333

17.3 Face Comparison Display

Face Comparison display includes face comparison statistics and face comparison record display. In the layout interface, drag these two modules to the preview window. Then you can set the attributes as needed.

	Layout	×
asic Module	Preview	
Video Windows Device Status	X Device Status Alarm St	tistics
Alarm Statistics Calendar	Video Windows	
ace Comparison		Face Comparison Statistics
Face Comparison Statistics Record	Face Traffic Flow Proportion of Comparison Statistics Each Monitoring Calen	lar lar
-Map	Statistics Statistics Each Monitoring Point	57220
E-Map Monitoring Heat Map	Property Setting(Video Windows)	42915 -
nart Snapshot		28610 -
Smart Snapshot		14305 -
raffic Flow Statistics	No Configuration	
	>	Passed Aprorm. Without.
	ОК Сал	

Smart Snapshot module: You can set the snapshot channel and attributes.

In the face comparison records, you can view the comparison similarity. Click 🖾 to quickly skip to face comparison retrieval interface. Click 🗐 to pop up the detail box. In this box, you can modify the personnel information; click 📑 to add this person to the face database.

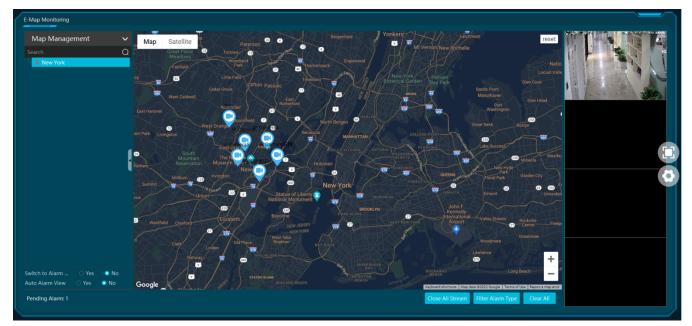
Face Comparison Record						
Stranger P Camera O1-13 162420 R						
• Stranger i/2 camera i/2 camera i/1 camera i/1 camera i/2 camera i/2 camera i/2 camera i/2 camera	Verified Tar	rget Info(details) ×				
• Stranger IP Camera Ort:1102420 □	Alarm Source: IP Camera Alarm	Time: 2022-01-13 16:25:55	Person List Seach Q	Add to	Group Bithday Mate V County	2022-01-13
	Name Birthday	Gender Unknown Lib Name		Province Work Type: Telephone ID Type: Remark:	Chy: Wark ID: Card Number: ID Card V ID NO:	
• Stranger المحمودة المحمودة المحمودة	ID Type ID Card ID No. Work ID		Visitor List	The default is the device	er bound to the target distribution Group []	

17.4 E-map Display

E-Map includes E-map monitoring and heat map analysis. The layout settings are as follows.

			Layout				×
Basic Module		î	Preview				
Video Windows	Device Status						
Alarm Statistics	Calendar						
Face Comparison							
Face Comparison Statistics	Face Comparison Record						
E-Map							
E-Map Monitoring	Heat Map		Property Setting(E-Map Monito	pring)		
Smart Snapshot			□ IPC □ Sm	art IPC 🔲 Se	ensor 🗆 Subsys	stem	
Smart Snapshot							
Traffic Flow Statist	tics		🗆 Zone 🗆 🛛	Door			
<	>	×					
					ОК	Cancel]

You need to set the hotspots in advance and then you can view here. Please refer to E-Map→ E-Map Monitoring for details.

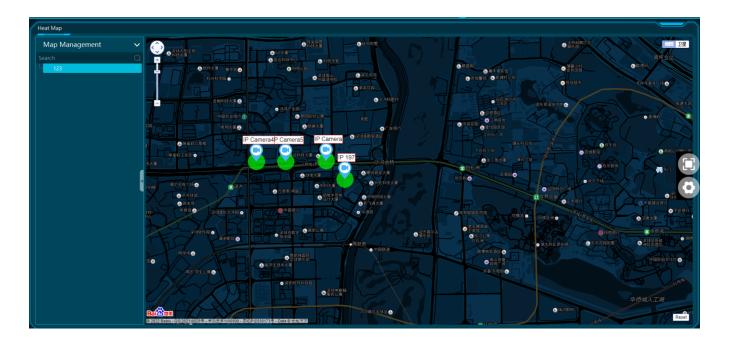


Heat map module: The more people/vehicles enter, the deeper the color is. Move the cursor on the monitoring point to view the current traffic flow. You need to set the E-map and hotspots in advance. Please refer to E-map settings chapter for details.

Besides the above hotspot setting, you can set other parameters as shown below.

		Layout	×
Basic Module	Í	Preview	
Video Windows	Device Status		
Alarm Statistics	Calendar	×	
Face Comparison			
Face Comparison Statistics	Face Comparison Record	Heat Map	
E-Map			
E-Map Monitoring	Heat Map	Property Setting(Heat Map)	~
Smart Snapshot		🗹 IPC 🗹 Smart IPC 🗹 Subsystem	
Smart Snapshot		🗹 Zone 🗹 Sensor 🔽 Door	
Traffic Flow Statis	tics	Human 🗸 Total No.(IN)	\sim
	ucs	<	> ~
	·	ОК	Cancel

In the heat map module of the intelligent dashboard, you can view the statistics of human/motor-vehicle/non-motor vehicle.



17.5 Smart Snapshot Display

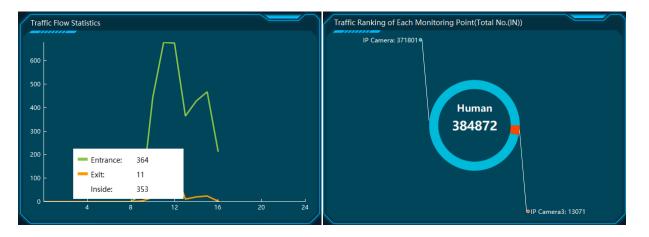
You need to set the snapshot attributes in the layout interface and then the relevant data can be viewed on the dashboard. The smart snapshot type includes face, license plate, human body, motor vehicle and non-motor vehicle. Please select them as needed.

				Viewtron	n VMS Software
		Layout	× Smart Sna		
Basic Module		Preview		Motor Vehicle IP Camera	
Video Windows	Device Status			01-13 17:49:47 (C) E) (O)	
Alarm Statistics	Calendar			Human IP Camera	
Face Comparison		Smart Snapshot		01-13 17:49:47	
Face Comparison Statistics	Face Comparison Record			Human	
E-Map				IP Camera 01-13 17:49:46	[`
E-Map Monitoring	Heat Map	Property Setting(Smart Snapshot)			
Smart Snapshot		Smart snapshot display		Motor Vehicle	
Smart Snapshot		Face detection License plate detection	A.	IP Camera 01-13 17:49:42	
Traffic Flow Statist	tics	Human body detection			
<	,	* <		Motor Vehicle IP Camera	
		OK Cancel		01-13 17:49:42 □ □ □ □	

17.6 Traffic Flow Statistics Display

You need to set the statistical type, auto refreshing interval and channel in advance. Please refer to Target Counting \rightarrow Task Management for details. Then set the layout of traffic statistics and display attributes.

			Layout	;
Video Windows	Device Status	^	Preview	
Alarm Statistics	Calendar		Traffic Flow Proportion of	
Face Comparison			Statistics Each Monitoring Point	
Face Comparison Statistics	Face Comparison Record			
E-Map				
E-Map Monitoring	Heat Map			
Smart Snapshot			Property Setting(Traffic Proportion of Each Monitoring Point))
Smart Snapshot			Human 🗸 Total No.(IN) 🗸	Î
Traffic Flow Statis	tics		Auto Refresh Interval: 1 minute	
Traffic Flow Statistics	Traffic Proportion of Each Monitori		Auto Refresh Interval:	
Statistics	Of Each Wohlton	~	Please select channels	~



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	8	
User Name*	admin	
Modify Password	8	
Old Password*	Enter Password	
Password*	Enter Password	
Confirm Password*	Enter Password	
Password strength*	○ Weak ○ Middle ● Strong	
	Contains four types of uppercase letters, lowercase letters, numbers and special characters, and the password length is not less than 8 digits!	
Display Password		
Permission Group*	Super Administrator	
Bind MAC Address	00 : 00 : 00 : 00 : 00 : 00 .	
Remark		
	OK	

2. Unable to work normally after starting server.

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

📱 Windows Task Manager									
File Options V	iew Help				-				
Applications Processes Services Performance Networking Users									
Name	PID	Des	cription	Status	G	roup	^		
AudioEndpointE	Bu 1100	Win	dows A	Running	Lo	calS	y:		
ServerTrayMgr	App 5056	Ser	verTray	Running	N	/A			
AlarmServerAp	p 2852	Alar	mServ	Running	N	/A			
TVWallServerA	op 3456	TVV	VallServ	Running	N	/A			
StorageServer	App 2860	Sto	rageSer	Running	N	/A			
MediaTransfer	Se 1096	96 MediaTran		Running	N	/ A	- 3		
ConfigServerAp	op 4316	Con	nfigServ	Running	N	/A	==		
Authentications	Se 4592	Authentica		Running	N	/A			
wpscloudsvr		WPS Office		Stopped	N,	/A			
ZhuDongFangY	u 4796			Running	N	/A			
WSearch	4540	Windows S Runi		Running	N,	/A			
WMPNetworkSv	/c 4688	Win	dows M	Running	N	/A			
wmiApSrv		WM	I Perfo	Stopped	N	/A			
wbengine		Bloc	k Level	Stopped	N,	/A	-		
4									
Services									
Processes: 60	CPU Usage	e: 0%	P	hysical N	lemoŋ	y: 59	%		

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 the event (including motion alarm, sensor alarm, line crossing detection, etc.) is set in the NVMS 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 playback 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 prompts "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.