

NVMS Lite User Manual



Contents

1	Int	troduction	on	1
	1.1	Introdu	lction	1
	1.2	Softwa	re Architecture	1
	1.3	System	a Components	2
		1.3.1	System	2
		1.3.2	Front-end Access	2
		1.3.3	Background Monitor	2
		1.3.4	Control Center	2
	1.4	Version	n	2
2	Co	onfigurat	tion Requirement	3
	2.1	Softwa	re and Hardware Configuration Requirement	3
	2.2	Requir	ement for Firewall	3
	2.3	Checki	ing Installation Environment	4
	2.4	Config	uring Server IP Address	4
3	Ins	stall and	Uninstall the Software	6
	3.1	Install	the software	6
	3.2	Uninst	all Software	7
4	Lo	gin		8
	4.1	Login.		8
	4.2	Quick	Wizard Settings	9
	4.3	Main N	Aenu Interface Introduction	11
5	De	vice Ma	nagement	15
	5.1	Add Ei	ncoding Device	15
		5.1.1	Quickly Add	16
		5.1.2	Manually Add	16
		5.1.3	Initiatively Report	17
		5.1.4	Quickly Add Auto Report Device	18
	5.2	Modify	y or Delete Device	18
	5.3	Device	Area Selection	19
	5.4	Batch	Import/Export	19
	5.5	Device	Upgrade	20
	5.6	Device	setting	20
	5.1	Area S	etting.	20
	5.0	Tool: M	lanagement	21
6	5.9 C		nanagement	21
0	Gr	Deemle	Nagement	23
	0.1		Add Crown	23
		0.1.1	Add Group	25
	62	0.1.2 Vehicle	Add Talget	24
	0.2	6 2 1	Add Vehicles	20
		622	View Modify or Delete Vehicles	20
		623	Import or Export Vehicles	27
	6.3	Permis	sion Management	20
7	Se	arch		33
•	7.1	Image	Search by Face	
	7.2	Face C	omparison Search	
	7.3	License	e Plate Comparison Search	
	7.4	Smart	Snapshot Search	35
8	Liv	ve View	•	
-	8.1	Live V	iew	
	8.2	Smart	View	40

		8.2.1	Face Comparison	.40
		8.2.2	License Plate Comparison	.45
	8.3	Chann	el Group View	.48
	8.4	Plan V	iew	.49
	8.5	Multi-	Screen View	.50
	8.6	PTZ C	ontrol	.51
	8.7	Instant	Playback	.52
9	Re	cord &	Plavback	53
	9.1	Record	l Configuration	.53
		9.1.1	Schedule Recording	.53
		9.1.2	Alarm Linkage Recording	.54
	9.2	Record	l Playback	.55
		9.2.1	Normal Playback	.55
		9.2.2	Smart Playback by Face	.58
		9.2.3	Smart Playback by License Plate	.60
		9.2.4	Playback by Time Slice	.60
		9.2.5	Playback by Event	.61
		9.2.6	Playback by Tag	.62
	9.3	Record	l Backup	.62
	9.4	Search	Picture	.62
10	ΤV	Wall		64
	10.1	Add D	evices	.64
		10.1.1	Add Decoder	.64
		10.1.2	Create and Connect Decoder	.64
	10.2	2 Add T	V Wall	.65
	10.3	3 TV Wa	all System Settings	.67
		10.3.1	Channel Number Settings	.67
		10.3.2	Decoder Setting	.68
		10.3.3	TV Wall Alarm Linkage Settings	.68
	10.4	4 TV Wa	Il Task Setting	.68
	10.5	5 Video	Preview	.69
		10.5.1	Decoder Input	.75
		10.5.2	Playback	.75
	10.6	5 TV Wa	ıll Backup	.76
11	Ala	arm Ma	nagement	78
	11.1	Alarm	Server Configuration	.78
	11.2	2 Alarm	Configuration	.78
	11.3	SOP S	ettings	.80
	11.4	Alarm	Task Settings	.81
	11.5	5 Email	Settings	.83
	11.6	5 Alarm	View	.83
	11.7	7 Alarm	Log	.85
	11.8	3 Manua	l Alarm Out	.85
	11.9	SIRA	Alarm Settings	.86
12	E-I	Мар		87
	12.1	E-Map	Settings	.87
		12.1.1	Create E-Map	.87
		12.1.2	Add Hotspot	.87
		12.1.3	E-Map Monitoring	.88
13	Ta	rget Co	Inting	90
-*	13.1	Task M	Ianagement	.90
	13.2	2 Real-ti	me Statistics	.90
	13.3	B Heat N	Гар	.92
	13.4	4 Histor	cal Statistics	.93
	13.5	5 Flow (Control	.93

14	User Mana	agement	96
15	Operation	and Maintenance Management	
	15.1 Check	and Export Log	
	15.2 Backu	p and Restore Configuration	
	15.3 Viewin	ng Online Status	
	15.4 Viewin	ng Status Log	
16	Configura	tion	
	16.1 Local	Configuration	
	16.1.1	Basic Settings	
	16.1.2	Resource Tree Settings	
	16.1.3	Record and Snapshot Settings	
	16.1.4	Alarm Sound Settings	
	16.1.5	Alarm View Settings	
	16.1.6	Overload Settings	
	16.1.7	OSD Position Configuration	
	16.1.8	POS information Settings	
	16.1.9	Snapshot Attribute Display Settings	
	16.2 Server	Configuration	
	16.2.1	System Settings	
	16.2.2	Alarm Settings	
	16.2.3	Audio Uploading Settings	
17	Data Dash	board	
	17.1 Create	Intelligent Dashboard	
	17.2 Basic	Module	
	17.3 Face C	Comparison Display	
	17.4 E-map	Display	
	17.5 Smart	Snapshot Display	
	17.6 Traffic	: Flow Statistics Display	
18	Troublesh	ooting	

1 Introduction

1.1 Introduction

NVMS Lite is a security management software with the powerful capabilities of video surveillance management, real-time preview, recording storage, recording playback, recording downloads, alarm linkage, decoding on TV Wall and keyboard control. NVMS Lite can meet the various demands of small-sized projects and can be widely used in the video surveillance of industrial parks, education, banking, chain stores, buildings and transportation.



1.2 Software Architecture



1.3 System Components

1.3.1 System



1.3.2 Front-end Access

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

1.3.3 Background Monitor

- Background monitors include TV Wall, Monitor, etc.
- You can set up the real-time image of display devices, these display devices including TV-Wall (decoding images to show on the TV-Wall through video decoder), digital display screen and so on.

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

1.3.4 Control Center

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

1.4 Version

Version	Max signal access
NVMS lite	256-ch video signals

2 Configuration Requirement

2.1 Software and Hardware Configuration Requirement

No.	NVMScomponents	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 /1TSATA/ 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	Recommendation for hardware	Recommendation for software	Number
	components	configuration	configuration	
		Inter(R) Core(TM) i5 7500 3.0GHz		
		or above /16GB DDR3/Intel HD		
	Monitor	Graphics 530 2GB or above/	Windows 10	
1	Client 64bit	NVIDIA GeForce GTX 1060 6GB	Professional/Liltimate/Home 6/bit	As needed
	Chem-040h	or above, (multi-screen : 2GB	Tolessional/Onimate/Tiome 040h	
		GDDR5 memory) /500GB		
		SATA/Gigabit NIC		

2.2 Requirement for Firewall

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

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

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

2.3 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 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.



- 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.

NVMS User Manual

🏨 Local Area Connection 3 Status	X	Local Area Connection 3 Properties
Local Area Connection 3 Status General Connection IPv4 Connectivity: IPv6 Connectivity: No Inter Media State: Duration: 14 day Speed: Details Activity Sent	Internet net access Enabled rs 04:54:46 100.0 Mbps Received	 Local Area Connection 3 Properties Networking Connect using: Connect using: Realtek PCIe GBE Family Controller Configure This connection uses the following items: Client for Microsoft Networks Client for Microsoft Networks Client Protocol Version 6 (TCP/IPv6) Internet Protocol Version 6 (TCP/IPv6) Link-Layer Topology Discovery Mapper I/2 Driver Link-Layer Topology Discovery Responder
Bytes: 2,125,192	9,285,794	Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
	Close	OK 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.	natically if your network supports ask your network administrator
🔘 Obtain an IP address automatical	ly
Ose the following IP address:	
IP address:	
Subnet mask:	255.255.0.0
Default gateway:	
Obtain DNS server address autom	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, click Browse and select another folder.
-Destination Folder

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

	InstallShield Wizard Complete
	The InstallShield Wizard has successfully installed NVMS Life Edition. Click Finish to exit the wzard.
	✓ Launch Software
InstallShield	<back cancel<="" finish="" td=""></back>

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

NVMS Lite Edition - InstallShield Wizard	X
This operation will delete NVMS Lite Editio	n from your computer. Continue?
	Yes No

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



7

4 Login

4.1 Login

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

User Name		
💄 admin	⊗ ▼	
Password	Forget password?	
6 •••••		
Remember Password	🗌 Auto Login	
Login		
I have read and agree <u>Application</u> <u>Privacy Statement</u>		

- ① Enter username and password (the default username is **admin**; the default password is **123456**).
- 2 Check "Remember Password" or "Auto Login" as needed.
- ③ Click [Login].

If it is the first time for you to login, you should check "I have read and agree Application Privacy Statement".

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

Res	set Super Administrator P	assword	×
Create Security Questions / A	nswers Dynamic Password		
Config Server:		7002	Search
Question:	When is your grandma's birthday?		
Answer:			
Question:	When were you born?		
Answer:			
Question:	What is the name of your university?		
Answer:			
			OK Cancel

If you don't set or forget 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.

Reset	t Super Administrato	r Password		×
Create Security Questions / Answ	wers Dynamic Password			
Config Server:		7002	Search	
CPU ID:	000A0653			
MAC Address:	C457C5			
Current Time: 20	22-09-27 19:43:06.900			
Dynamic Password:				
			ОК	Cancel

4.2 Quick Wizard Settings

After you log in, the system will pop up a wizard and the password modification is required.



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

It is important that you remember the answers for these questions or you will not be to reset your password and be locked out. Click "Skip" to skip the following wizard setup.

			_	
(Quick Confi	iguration Wizard		
Create Security Question	s / Answers —	 Device Time Correction 	n — 🔳	Select a plan
Question:			-	
Answer:				
Question:			-	
Answer:				
Question:			•	
Answer:				
□ No more tips for security	/ questions		Next	Skip

Click "Next". This will bring you to the device time correction interface.



Click "Device Time Correction". Then you can synchronize time zone.

Click "Next". Then you can select the function display module in the home page.



Click "Finish" to complete the wizard setup.

After that, a record partition setting box will pop up. Please check the record partition as needed.

			Record Partition Setting	×
_				
	Partition Symbol	Partition Size	Remain Size	
		238GB	175GB	
		310GB	228GB	
			223GB	
		310GB	289GB	
			OK	

4.3 Main Menu Interface Introduction



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", "Switch Plan", "Modify Password", "User Manual" and "Skin"
â	Click it to lock the operation page. Click "Unlock" and then enter the login password to unlock it.

Functional area

Menu	Description	
Video Preview	To view live images and to record, snapshot and talk, etc.	
Record & Playback	To remotely play the local records or back up records.	
Search	Including image search by face, face comparison retrieval, license plate comparison retrieval, smart snapshot retrieval and visitor record search.	
E-Map	To manage and display maps, hot spots, etc.	
TV Wall Management	To set TV wall and decoding videos on TV Walls	
Group Management	To manage people and assign the access permission; To add vehicles	
Data Dashboard Smart display video window, device status, face comparison, human body temperature screeni etc.		

Target Counting	To monitor and analyze people/vehicle flow in real time
Resource Management	To add, modify or delete areas, devices or servers.
User Management	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.
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, alarm view and so on.

Favorites:

You can move the module which has a high using frequency to Favorites.

Place the cursor on the module you want to move to Favorites, and then a pentagram icon (\checkmark) will be displayed on the top right corner

of the module. Click this icon to move. In the Favorites display area, click

to make the module return to its original place.

Video Preview	Video Preview
Video Preview Alarm Preview E-Map Monitoring	Video Preview Alarm Preview E-Map Monitoring

Wizard Settings:

On the bottom right corner of the functional area, click **(2)** to show the following wizard guide.



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								
Ø	Click it to edit the item.								
靣	Click it to delete the item.								
>	Check the camera and then click it to select								
<	Check the camera and then click it to remove								
>>	Click it to add all items								
~~	Click it to remove all selected items								
+	Click it to link to itself								
ļļ	Expand menus								
	Collapse menus								

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.

Add, Edit or Delete Device			el Group Setting							
=		 Add □ Delete ④ Save, Form 	+ Import/Export	🗝 🛞 Change Area	Change Transf	ier Server 💿 Chan	ige Storage Server	⊕ Upgrade -		
Encoding Device (Online/Total			No. Edit	Device Name		Channel Number	Alarm In Numb	er Alarm Out Num	ber IP Addres	ss/IP Rang
Decoder (Online/Total number:				Add	Encoding [Device				×
Intelligent Analysis Server (Onlir	n Quickly Add	Manually Add II	nitiatively Report	Unbound Auto Repo	rt Device					
Storage Server (Online/Total nu	🗘 Refresh 🖉 B	atch Modify IP							Device Quantity:	
Media Transfer Server (Online/T		- Device Name	IP Address	Modify IP A	Address Activ	vate Port	Subnet Mask	Protocol	Version	
Media Hansier Server (Offine)		IPC	10.15.1.88	Ľ		ated 9008	255.255.255.0	Standard Device	5.1.1.0 00:	

In the adding encoding device interface, you can view the activated device or unactivated device. Click the "Activate" on the table header to sort.

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



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

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

Quickly Ad	d Manually Add	Initiatively Report U	Inbound Auto Report Device						
🗘 Refresh	🗣 Activate 🖉 Modify	IP						Device Q	uantity:3
	Device Name	IP Address	Modify IP Address	Activate	Port	Subnet Mask	Protocol	Version	1
	Device Name	10.15.1.120	2		6036	255.255.255.0	Standard Device	1.4.7	00:
	IPC	192.168.226.201	<u>e</u>		9008	255.255.255.0	Standard Device	5.1.2.0	00:
	IPC	192.168.226.201	2		9008	255.255.255.0	Standard Device	5.1.2.0	00:

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

1
1

- 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.
- ③ Select transfer server, storage server and area and then click [OK]. Devices can be added in batch by adding IP range.

If "URL" is selected, you shall add the device via RTSP protocol. Enter the URL, username and password of the device and then click

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

		Add Encoding D	evice		>
Quickly Add Manually Add	Initiatively Report Un	bound Auto Report Device			
IP Address/IP Range/Doma	in Name/Serial No./URL/IPV6	Protocol	Port	User Name Passwor	d Test
URL:http://192.1	68.226.201/profile1	RTSP		admin	θ
IP Addr	ress:0.0.0.0	Standard Device	6036	admin	

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 Encoding	Device				×
Quickly A	dd Manu	ally Add	Initiatively Report	Unbou	und Auto Report Device					
		Device N	umber		Protocol	User Nam	e Password	Delete	1	
No.	- [1			Standard Device	admin	•••••			
Selec	t Transfer Serv	er Transf	er Server		Select Storage Server	Storage Server				
	Select Ar	ea 🛕 de	fault area		Automatically Link	Area				
								efault Password	ОК	Cancel
								Hauter assword		Cancer

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 🕨 Net	twork 🕨 Advanced							
Basic Information	Port Server Or	nvif DDNS SNMI	9 802.1X RTS	SP RTMP	UPnP I	Email F1	IP HTTPS	QoS	
Storage	🗹 Enable								
	Server Port	2009							
Display Sattings Video (Audio	Server Address	10.214.11.99		IP ad	dress o	of Med	ia Trans	fer Server	
OSD Video Mask ROI Config	Device ID	4924							
Zoom/Focus				🔁 Dev	/ice nui	mber			
	-		Save						
Alarm									
Motion Detection Anomaly									
Alarm Server									
Event	_								
Object Abandoned/Missing									
Video Exception Line Crossing									
Region Intrusion									
-	-								
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 Encoding) Device		×
Quickly Add Manually Add	d Initiatively Report	Unbound Auto Report Device			
Ø Refresh					
Device Nar	me Serial No.	Protocol Select Transfe			
D 1	1 Sta	andard Devi Transfer Server			
Select Transfer Server Tr	ansfer Server	Select Storage Server	Storage Server		
Select Area 🕻	default area	 Automatically Link 	Area		
				Default Deseuverd	OK Cancel
				Default Password	Cancel

5.2 Modify or Delete Device

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

Add, Edit or Delete Device	Device Setting A	Area Setting	Channel G	oup Setting T	ask					
Ξ		Add	🗓 Delete	+ Import/Export -	O Change Area	Ochange Trans	sfer Server 💿 Change	Storage Server (🕑 Upgrade 🗸	
Encoding Device (Online/Tota	al number: 1/1)		No.	Edit	Device Name	Туре	Channel Number	Alarm In Number	Alarm Out Numb	er IP Address/IP Ran
Decoder (Online/Total numb	er: 0/0)				Device Name	Standard D				1

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

Click *l* 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.

Add, Edit or Delete Device	Device Setting A	rea Setting	Channel G	roup Setting						
Ξ		■ Add Or Save For S	🗓 Delete	+ Import/Export	t • 💿 Change Area	Change Trans	fer Server 💿 Change	e Storage Server 🛛 🟵) Upgrade -	
Encoding Device (Online/Tot	al number: 1/1)			Edit	Device Name	Type	Channel Number	Alarm In Number	Alarm Out Numbe	er IP Addres
Decoder (Online/Total number: 0/0)				Ø	Device Name	Standard D				

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.

	А	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/Export] to show a drop-down list. Click [Import] to import the file.

Add, Edit or Delete Device	Device Setting Ar	rea Setting	Chann	nel Gro	up Setting Tasl							
Ξ		Add O Save F	n Delete		Import/Export -	⊙ Change A	rea	Change Trans	sfer Server	O Change	Storage Server	⊙ Upgrade •
Encoding Device (Online/Tot	tal number: 1/1)			NC E	Batch export	e Na	me	Туре	Channel	Number	Alarm In Numb	er Alarm Ou
Decoder (Online/Total numb	oer: 0/0)			1	Export Template(.xls:	ce Na sx)	me	Standard D	6		26	1
Intelligent Analysis Server (O	nline/Total number:				Export Template(.cs\	v)						

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

Add, Edit or Delete Device	Device Setting	Area Setting	Channel G	roup Setting Tas	k					
≡		🛨 Add	🗓 Delete	+ Import/Export •	① Change Area	Change Transfer S	Server 🕀 Change Sto	orage Server 💮 Upgi	rade 🔹 🕀 Save Form	
Encoding Device (Online/Total number: 6/11)				Edit	Device Name	Туре	Channel Number	Alarm In Number	Alarm Out Number	IP Address/
			1	Ø		Standard Device	1	3	3	

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 Setting A	rea Setting	Channel G	roup Setting Task						
\equiv		🛨 Add	🗓 Delete	+ Import/Export -	Change Area	🕀 Change Tra	ansfer Server 🕀 Cł	nange Storage Server	🕒 Upgrade 🝷 🛈 Save Form	
Encoding Device (Online/Total number: 1/2)			No.	Edit	Device Name	Туре	Channel Number	Alarm In Number	Batch Upgrade for IPC	e
									Batch Upgrade for NVR/DVR	
Decoder (Online/Total numb	er: 0/0)		2	A	IDC	Chandrad D			1	

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.

Ć	Add 🖑 Delete All Empt	y Area					
	Area Name		Channel Number	Edit	D	elete	
	▲ 48.X		Create Area		×	Ē	
	▲ 6036					Ū	
	a 9008	Parent Area			-	Ū	
	OS POS	* Area Name				Ū	
	û SD ↓					Ē	
÷	▲ Test		ОК	Canc	el	Ū	
	<u> </u>					ār.	

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].

5.8 Channel Group Settings

low.
low

Add, Edit o	or Delete	e Device	Device Setti	ng Area	a Setting	Channe	el Grou	up Setting	Task		
🗖 Add 🗈] Delete										
	Chani				Add Cl	nannel	Gro	up			×
iii xx											
🗄 🇰 cpj		* Channel G	Group Name								
		Keybo	ard Number								
			Dwell Time	5 s			Ŧ				
		Parent Cha	annel Group				Ŧ				
		Selecta	able Device		0/186		Selec	ted Device		0/0	
			48.X								
			□ 10.214.1	29.28_80_C	AM001				È		
			0.214.4	8.235_80_C	AM001						
			0.214.4	8.30_80_CA	M001						
			10.214.4	8.40_37777	_IPCam	>>					
			□ 193 <u>1</u> 8								
									ОК	Cancel	

- 1 Click [Add].
- 2 Enter channel group name, channel group and dwell time.
- \bigcirc Select the parent channel group.
- ④ Add channels to the channel group. Check the desired channels and click ≥ to add channels; choose the selected channel and click
 ✓ to remove those channels; Click ≥ to add all channels; click ≤ to remove all selected channels. You can also enter the key words to search the channels and then select them.
- ⑤ Click [Ok] to save the settings.

5.9 Task Management

Set the face capture source, schedule and applicable scenario.

Add, Edit or Delete Device	Device Setting	Area Setting	Channel Group Setting	Task						
		Schedule	Template							
≣ Device task settings		Monitor	ing Point		Monitoring Point	Applicable Sce	enario 🗸 🗸	Face Capture Source 🖌	Schedule 🗸	
⊗ More Settings					155.254	Face Surveillance, Vehicle deploy	rment control	✓ NVR capture face 7*24		
		🖂 🙆 defa	ult area							
		🖂 🗅	0.214.15 036							
			155.254							
			155.254_IPC							
			155.254_'							

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 [More Settings].

Face Comparison Alarm							
Block List Stranger Allow List							
Similarity							
Similarity(%) 75							
Intelligent Server Setting							
Enable Face Detection of the Face Recognition IPC ?							
Send Captured Pictures to FTP							
Enable 🔵							
FTP Server Address							
FTP Server Port 21							
FTP File Path / 📴							
dnonymous							
Apply							

Face Comparison Alarm: Select face comparison alarm list. For example, "Allow List" is selected, when a person is detected and is successfully compared with the allow 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.

Group Management 6

6.1 People Management

You can add group for two libraries-Person List and Block List. Here taking "Add target to person list" for example

6.1.1 Add Group

• Add the parent group

Go to Home \rightarrow Group Management \rightarrow People & Vehicle Management \rightarrow Person List.

Person List		Delete	다 Change Group	E Failure Record	🕒 Import	Ŧ
Create		itting roois				
Default Group			Add Grou	р	×	
Delete Employee Group		* Na	ime			
	F	Permission Gro	oup Please select			
Add			l	OK Cancel		

Click [Create] to add a group, or right click on the blank of the person list column and then click [Add] to add the group name.

Note: The added parent group name and face information under it will be synchronized to the face database of the NVR, but the sub group name will not be added to the NVR. The face information under the sub group will automatically be added to its parent group in the NVR. If the parent group fails to synchronize to the face database of the NVR, but the face information of sub group is successfully added to the NVR. Now, the face group name will be named "creation date-intelligent server IP-creation time (s)-list type-parent group name" as shown below.

No.	Group				
1	2022_4_21_10.214.200.200_32 (3853)				
2	2022_4_22_10.214.200.111_1 (1128)				
3	2022_4_22_192.168.52.214_47_White_default(0)				
Group Name in NVR					

Group	Name	in	Ν	V	ŀ	
-------	------	----	---	---	---	--

For IPC, the added face information under person list and VIP list will be automatically added to the allow/white list of the IPC. The added face information under visitor list and block list will be synchronized to the corresponding list.

• 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.

Person List	
⊕ Create	
Q Search	
😑 Default Group	€之世

Click to modify the group name and permission group; Click in to delete the group.

6.1.2 **Add Target**

You can add targets for two libraries-Person List, Block List.

Add target one by one

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

Person List		Add Delete	,⊏Î Char	nge Group 🛛 🗍	E Failure Record	🕘 Import 🝷	🖸 Export All
⊕ Create		M FORMATING TOOLS	Adc	d Target			×
		📕 🕕 Basic —		2 A	ccess Control		
📄 Default Group							
🔁 Delete Employee Group	* Name						
	Gender 🤇	Male 🔿 Female					
	Work ID				Upload		
	Telephone			Ir	mage size: less thar	1 200KB is recon	nmended
	Remark			Image size: less than 200KB is rec			
	Detail 🔨						
	ID Type	ID Card	-	Birthda	ay 2022-10-30		ii
	ID NO			Countr	ry		
	Province			Cit	ty		
	Work Type			Email Addres	ss		
				Next	dd and Continue	ок	Cancel

Click [Upload] 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 200KB.

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

Batch Import

In the above interface, click [Download 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.



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

Click [Import] →[Excel Import]

Person List	🛨 Add	🗓 Delete	,⊏Î Change Group	🖻 Failure Record	🕑 Import 🝷	🖸 Export All	🛃 Download Template
⊕ Create	Forma	itting Tools			Excel Import		
Q Search					Batch Impor		
					File Import		
📄 Default Group					rile import		

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 [Formatting tools] displays an image conversion box. Click 🖻 to select the desired images.
- 3. Click respectively to set the image naming rules and content of the header.

Image Conversion Tool					
lare an Uni			~		
Image List			⊡		
Image Naming Rules			0		
Content of The Header			Ø		
*Generate Excel for impo	ort	ок	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



After the target is added, click do nodify; click to delete.

Click **L** to view the target list as shown below.

🗓 Delete 1 🖸 Form	다 Chang natting Tool	je Group Is	E Failure Record	(라) Import ㅋ	- 🖸 Export	🖸 Export All	🔁 Download Template		:	
Edi	t	Name	Birthday	Gender	ID Type	ID NO	Country Province	City	Group	Work Ty
Ø		cw	2022-10-30	Female	ID Card				Default Gro	
D		4	2022-10-30	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

Add vehicle groups for each vehicle list

Click On the right of a vehicle list (Allow List/Block List/Temporary Vehicle) to add a vehicle group under the vehicle list as shown below.

Note: If you want to add vehicle groups under a vehicle list, you must enable license plate synchronization function by clicking Configuration \rightarrow Server Configuration \rightarrow System Setting first.

Vehicle Registration	Add Group 🛛 🗙
Allow List	* Name
🚞 Block List	
🚞 Temporary Vehicle	OK Cancel

Select the desired vehicle list or vehicle group under a vehicle list and then click [Add] to add the relevant vehicle information.

Vehicle Registration		Add 🖑 Delete	🗄 Import 👻 I	🖸 Export
🗉 🛅 Allow List	Ą	dd New Veh	icle	×
📄 1 📄 Block List 🍯 Temporary Vehicle	* Number Plate Owner Input Method	Input Manually	○ Select from pe	erson list
	Name			
	Phone			
	Vehicle Type	Small Car	-	
	Vehicle Color	Black	-	
	License Plate Type			
	Start Time	2023-06-20 00:0	0:00 🗰	
	End Time	2023-06-20 00:0	0:00 🗰	
	Description			
		Add and Continue	ОК	Cancel

Binding devices for each vehicle group

Click Let beside the group name to bind devices for this group. All vehicles under this group can be bound to the selected devices. After these devices are bound to this group, the vehicles you add later will automatically bind these devices.

	Edit the binding	×
	Name group1	
	Device	
	Selectable Device 1/2 Selected Device 0/2	
	☐ default area ☐ default area ☐ IPC9925 ☐ IPC101	
Vehicle Registration	NVR1009	
🗆 盲 Allow List		
늘 group 1	»	
🚞 Block List		
🛅 Temporary Vehicle	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.

+ Add	🗓 Delete	🛨 Import 🝷	Export	🖸 Export	AI 🕶 🛔	🛃 Dow	nload Template 🝷					Q Sea
	Numbe	er Plate	Name	Work ID	Phor	ne	Vehicle Type	Vehicle Color	Descrip	otion	Operation	
	ABC	123					Small Car	Black			⊿⊡	

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.

🛨 Add	🗓 Delete	🛨 Import	- 🖸 Export	🖸 Export	AI 🕶	🛃 Download Template 🝷	
	Numbe	er Plate 🛛	Name	Work ID	Pł	Export Template(.xlsx)	Vehicle
	ABC	123				Export Template(.csv)	Bla

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

You can also get vehicle information from license plate recognition cameras/NVRs. The setting steps are as follows.

- 1. Click "Obtain from Devices".
- 2. Select the device type.
- 3. Select vehicle list (Allow List/Block List/Temporary List) of the LPR camera/NVR.
- 4. Select a vehicle group of the platform.
- 5. Click **v** to add.
- 6. Click "OK" to synchronize the vehicle list of the selected device to the corresponding groups of the platform.

Obtain from Devices ×	G Obtain from Devices ⑦
	Vehicle Color 1 License
2	Black
Q Search Q Search	
IPC9925 Allow List Block List Block List 3	
Temporary vehicle	
IPC101 Identitie	
Plack Lise	
Selected Group	
Device grouping Platform grouping Operation	
IPC9925/Allow List - Allow List/group1 \Theta	
6	
Cancel	

Note: If you want to get license plate information from devices, you must enable license plate synchronization function by clicking Configuration \rightarrow Server Configuration \rightarrow System Setting first.

6.3 Permission Management

Click Home→People &Vehicle Management →Permission Management to go to the following interface.

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

Add Permission Group

In the permission group interface, click [Add] to add a permission group. Enter the name and set the schedule and devices as needed.

People and Vehicle Management	Permission Management			
Ē	🕒 Add 📋 Delete			
Permission Group			dd	×
Q People Sync Record Query	* Nan	ie		
园 Vehicle Sync Record Query	* Schedule Templa	e Default full time schedule	🗢 🗢 Schedule Settir	ng
	Selectable De	ice 0/0	Selected Device	0/0

Click "Schedule Setting" to set the desired schedule. You can set weekly schedule and holiday schedule as needed.

Schedule Setting								
Schedule Template ⑦	Weekly Schedule Holiday Schedule							
⊕ Add	𝔗 Copy 0 2 4 6 8 10 12 14 16 18 20	22 24						
7*24	A Sun.	*						
5*24	e Mon.	*						
	P Tue.	*						
	A Wed.	*						
	🖋 Thu.	*						
	🖉 Fri.	*						
	🖉 Sat.	*						
		OK Cancel						

Click [Add] to add a new schedule template name. Double click the schedule name to modify it. Then you can select the schedule and set it as needed.

• Weekly Schedule:

Set the scheduled time from Monday to Sunday for a single week. Each day is divided in one hour increments. Green means scheduled. Blank means unscheduled.

Add: Add the schedule for a special day. Drag the mouse to set the time on the timeline. Or click 🗱 to manually set the time period;

click to add new time period.

	Time Allocation	×
Period1	00:00:00 🗘 - 23:59:00 🗘	ŧ
Select All		
🗆 Mon.	🗆 Tue. 🗌 W	/ed.
🗆 Thu.	🗆 Fri. 🗆 S	at.
🗹 Sun.		
	ОК	Cancel

You can copy the above time period to other days by checking the relevant days. After that, click [OK] to save the settings.

Additionally, you can also copy the time period by clicking \checkmark . For example, click \checkmark in front of Sunday, Monday and Tuesday, and then drag the mouse on the timeline of one of them. After that, other days that enable \checkmark will automatically copy the set time period. You can also click \checkmark next to "Copy" and then drag the mouse on the timeline of one day, and then the other days of the week will automatically copy the set time period.

Erase: Drag the mouse on the scheduled time period to delete the set time.

Delete Schedule: Put the cursor on the schedule name and then a deletion icon will appear. Click it to delete the schedule.



Holiday Schedule

Set the scheduled time for a special day, such as a holiday.

1. Click the "Holiday Schedule" tab to enter the holiday schedule page.

	Holiday Schedule						
	Holiday Schedule	⊕ Add - 🖻 Clear All					
Weekly Schedule Holiday Schedule C Holiday Schedule Setting Selectable Items 0/2 Selected Items 0/0	⊙ Add ■ 1 ■ 2 ■ 1	NO Start Time	Period				

- 2. Click "Holiday Schedule Setting" to set holiday schedule. Click "Add" on the left panel to add a new holiday schedule. Enter the holiday schedule name as needed.
- 3. Select the holiday schedule. Click "Add" on the right panel to set date and time period.

Drag the mouse on the timeline to set the time period or click ****** to manually set the time period. Click ****** Clear***** to clear all information of the current holiday schedule.

4. Click [OK] to save the settings.



Note: Holiday schedule takes priority over weekly schedule.

Permission Binding

Click

to bind the group or person to the selected devices.

Permission Ma	nagement							
	🛨 Add	🗓 Delete						
		Nam	e Schedule Tem				Operatio	
			7*24				A L	Ū
				Authori	zation l	Binding 🖌		×
			Selectable			Selected		
			🗄 🗌 🚞 Employee					
			🗄 🗌 🚞 Block					
					>			
					>>			
				۵		Clear A	ШОК	Cancel

After the binding is complete, you can modify or delete the permission group as needed.

People Sync Record Query

Click "People Sync Record Query" to view the permission binding status of each person.

People and Vehicle Management Permission Management								
ij	People Device	Access Point 1 Device Name All Access Point 1 All All						
🕞 Permission Group	Person List 🗸 🗸 🗸	m Delete C Export						
		Name Device Name Group Status Operation						
People Sync Record Query	🚞 Default	□ luren (11)(504 NVR27 Pst12 Success 団						
母 Vehicle Sync Record Query	🖃 🛅 test12							
	<mark></mark> -112456							
	<mark>2</mark> 12333							
	💄 luren (11)(50499)							

After the permission binding is complete, you can click

to delete the sync record here.

Note: 1. When the device is offline, the target synchronized to it cannot be deleted. Then you can delete the synchronization records here and then delete the target.

2. 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.

> Vehicle Sync Record Query

Click "Vehicle Group" or "Device" to view the sync status of all vehicles under each vehicle group or device.

Permission Mar	nagement								
	Vehicle Group	Device	Device Name			Status A			C Resynchronize
	Vehicle Group		🗓 Delete						
	🗆 🛅 Allow List			Name	Device Name	Group	Delivery status	Operation	
	🗁 group1			S11111	NVR27	group1	Success	应	

Note: If you want to view the vehicle sync records, you must enable license plate synchronization function by clicking Configuration \rightarrow Server Configuration \rightarrow System Setting first.
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].

Note: Only face recognition NVRs added to this platform support this function.



Click

k Delta 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.

		Map Track		
E-Map Setting II Play Track Line				
	E-1	Vlap Setting		×
Map Management	Monitoring Point	Y 🗍 Clear Map Hot Spot		
Oreate				
			Office	
& 1		-		
		Ergineering Department	mvx201 WC WC Conference	Eevalor Ext Front Deor
		Comicer	Conference Conference Room Strivice Commerce Department Department	Reception Desk 1 1 Inff Contider
		Test Department	Device Name Cameral D	Lobby rohasing gartneet
		Comfar . Test Room	Contier	
			R&D Department Einandel Markeling Department Department	HR General Department Roman
	Sensor	Varekruse		

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 query method. Then select match type or target as needed.
- 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.

For example: Search faces from intelligent server

Image Search by Face Face Comparison Retriev	al License Plate Comparison Retrieva	Smart Snapshot Retrieval		
Monitoring Point	C Export			
Q Search				
🗄 🖬 🏠 default area	2022-10-30 12:09:22 Daries Name IP(11	2022-10-30 12:09:18 Darice Name IPC01	2022-10-30 12:09:18 Darice Name IPC/1	
\succeq		bevice Name_if cor	Device Hume_n con	
Match Type				
Human Face 🔻				
Search Source				
Intelligent Server	4			
Gender Age				
Unknown,Ma Unknown,<15 years c				
Mask Temperature				
Unknown,Ma 🗢 Unknown,Suspected I 💌				
Hairstyle Beard				
Unknown,Bal 👻 Unknown,Mustache,F 💌				
Telephone Skin				
Unknown,Dic 👻 Unknown,White skin,I 💌				
Headgear Glasses				
Time				
2022-10-30 00:00:00 ~ 2022-10-30 23:59:59 🗎				
Search	Total: 3 50 🔻			

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 it o quickly search images by this picture. Put the cursor on the captured picture and then click it o quickly download the captured picture.

Search vehicles from intelligent server:



Click to quickly skip to the playback interface and play the record.

Click 🗐 to view the snapshot details, including the original image, target picture, snapshot type, snapshot time and so on.

Select the searched pictures as shown below and click [Export] to export the selected pictures.



You can also export all searched pictures in the current page once by checking "Select Current Page" and clicking [Export].

Search vehicles from face recognition NVR:



Click 💽 to play back the record in a small window; click 📓 to quickly download the captured picture.

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; click it to view more screen display modes. Please select as needed.	6	Show/hide target tracking box
2	Full screen	7	Close all previews
3	Enable/disable OSD	8	Save the current view mode
4	Enable/disable broadcast	9	Choose the camera stream
5	Manual alarm output		

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

Toolbar on the display window:

Button	Description	Button	Description
\times	Close image	Ð	Zoom in
丒	Start/stop recording	Q	Zoom out

NVMS User Manual

х	Enable/disable audio		Fit to window
ø	Snapshot	Ð	Manual alarm output
÷,	PTZ control	Ŷ	Enable/disable talkback
9	Monitoring point setting (camera setting)	Ŷ	Enable/disable channel talkback
Ø	3D zoom in		

If the channel under a DVR/NVR device is set up for two-way audio, click U to enable two-way audio between the DVR/NVR and the

monitor client; click IV to enable two-way audio between the IPC and the monitor client.

Right-click button function:

Menu	Description	Menu	Description
Close Channel	Close image	Start Talkback	Enable/disable talkback
Start Record	Start/stop recording	Channel Info.	Display channel name, IP address and the current stream
Instant Playback	Click it to play back immediately	Stream	Choose video stream
Audio ON	Enable/disable audio	Full Screen	Display image in full screen
PTZ Control	Click it to show PTZ control panel	Image Adjustment	Set the image's brightness, saturation, contrast and so on
Snapshot	Capture images	Manual Alarm Out	Click it to select alarm output device and then trigger alarm out manually

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 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 in 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
ૃષ્	Plate Comparison: Real-time display of license plate comparison results		Full Screen under smart mode

8.2.1 Face Comparison

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

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

- 1. Go to Home \rightarrow Resource Management \rightarrow Add, Edit or Delete Device interface to add face recognition devices.
- 2. Create a group, add targets to the group and bind permission for them. Please refer to chapter 6 People & Vehicle Management for details.
- 3. Set the task for these added face comparison device. Refer to <u>Task Management</u> for details.

 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.

Add, Edit or Dekte Device Setting Area Setting Channel Group Setting Task:		
Encoding Device OSD Setting Image Setting Stream Setting Motion Detection Motion Alarm Linkage Exception Detection Face Comparison Face Detection Preset Setting Starch • default area • 10.20.21.14.9008 • 192.168.288.2001 9008 • 192.168.226.201.9008 • 192.168.226.201.9008 • 192.168.206.201.9008 • 192.168.206.201.9008 • 192.168.206.201.9008 • Interview • Intervi	Add, Edit or Delete Device Device Setting	
○ Search IPC01 2022/10/28 19:33:80 ISuccessful Recognition Schedule 24x7 ISUCESSful Recognition Schedule 24x7 ISUCESSful Recognition Schedule 24x7 ISUCESSful Recognition Schedule 24x7 ISUCESSful Recognition Schedule 24x7	Encoding Device	Exception Detection Face Comparison Face Detection Preset Setting Cruise Setting Device L
 Device Name Device Name JPC Device Name JPC Device Name JPC Device Name JPC Device Name JPC01 	 Search A default area 10.20.21.14 9008 192.168.188_9008 192.168.262.01_9008 192.168.226.201_9008 Device Name 	grition Schedule 24x7 vedule 24x7 iroup Name Similarity% 75 10_28_10.15.1 75

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	mera Name IPC2333				
			Face Rec	ognition	LF	R		
Live Display Playback	Search and Backup Intelligent A	nalysis Function Panel	Detection	Recognitic	Detection	Recogn		
Current Matification	Function Panel Face Recognition		Face Dat	abase 🥕	Plate Dat	abase 🥕		
Alarm-out E-mail Display Buzzer	vlBuzzer Camera Name IPC2333 V		Enable Successful Recognition Stranger					
Alarm Server	Face Recognition	LPR	rarameter settings	Successiul R	stranger			
C. ALEvant	Detection Recognition	Detection Recognition	Face Group 🤇	More 🖌	AI 01;			
Face Recognition ILPR	Face Database 🌧	Plate Database 🌧	Schedule	24x7	Schedule Mana	gement		
People/Vehicle Perimeter More	Enable Successful Recognition	Stranger	Text Prompt					
X44	Parameter Settings Successful Recognition Stranger				Enable alarm output pulse(Access Control)			
Motion Sensor	General Event ion Sensor Face Group Similarity(%)		Trigger General	1	Record Configure	F		
Combination Alarm IPC Offline Exception Handling Settings	01 75		Push		IPC2333			

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

OSD Setting	Image Setting	Stream Setting	Motion Detection	Motion Alarm Linkage	Exception Detection	Face Comparison	Face Detection	Preset Setting	Cruise Setting	Device L
IFGÓA			Face Detection(IPC) Hold Time (Save Source Informatic Save Face Informatic Snapshot Interv	5) 20 m () m () al 30 s						
			Snapshot Numbe Face Exposu	er 3	50					
Start Dra	aw 🧳 Clear									
Display Ma:	x Max ———		50							

• 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.



In the smart snapshot area, click the corresponding icon (face/human body/motor vehicle/non-motor vehicle/plate) to filter the display of smart snapshots. Disable the selection and then the corresponding smart snapshots will not be displayed. Click D button to quickly go to the smart snapshot retrieval interface.



For attribute display settings, please refer to snapshot attribute settings for details.

Note: If you want to view the detailed attribute/feature information of the snapshot images, you should add the AI IPC with video metadata function and this function must be enabled first.

Quickly adding the detected target to the face database:

Put the cursor on the face snapshot and then click +. The following window will pop up. Select the group and then fill out the relevant information to add.

				Add to G	roup				×
	Person List	~		🕕 B	asic	2 Access C			
	i Default Group	• N Ge Wor Telepi Rer	ame IPC def Male Ferme K ID	ale	Imaç	ge size: less than 200K	B is recommended		
		Detail							
			Type ID Card		Birthday	2022-10-31	۵		
			NO		Country				
		Pro	vince		City				
€12=٩		Work	Туре		Email Address				
	Block List	\mathbf{v}						Vext OK	Cancel

Click of uickly skip to the image search by image interface.

The captured picture can be exported. Click

• Face Comparison Display Settings

Click on the right corner of the live interface to display the configuration window as shown below. One or more items can be selected.

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.

	[Face Comparison]	@					
Configuration							
Face Matching Settings	н 1						
Pop-up Prompt 🛛 Block List 🗌 Allow List 🗍 Stranger							
Frame Holding Time(s) 💿 Always Show 🔿 Automatically Hide(3	3s) O Automatically Hide(5s) O Automatically Hide(10s)						
Statistics Display							
Pass-by(Today) Abnormal Temp Mask Off							
Face Comparison(Today) Block List (People) Stranger							
Vehicle Matching Settings							
Pop-up Prompt 🛛 Block List 🗌 Allow List							
Frame Holding Time(s) 🛛 🔿 Always Show 💿 Automatically Hide(3s) O Automatically Hide(5s) O Automatically Hide(10s) ₁₁						
Statistics Display							
Vehicles Passing(Today) Plate Comparison(Today) Bloc	k List (Vehicle)						
	Save						

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.

y(Today): 31	Abn			Verified Tar	get Info(deta	iils)		×				
02		Comparison Result	ts			N	lame	-	[Face Comparison]		e Stronger	@ >
		2		(+)		Ge	ender Unknown				• Stranger	Í
					Add to Grou	an				×	Device Name_IPC01	
											10-28 19:52:25	5
Person Lis		~										
Q Search											• Stranger	
🚞 Defau	ult Group		* Name								Davies Name (DC01	
			Gender	👂 Male 🛛 Female							10-28 19:52:20	
												5
			Work ID			1						
			Telephone									
						Image	size: less than 200KB	is recommende			• Stranger	Í
			Remark								Device Name_IPC01	
											10-28 19:49:02	
			Detail 🔨								R E	
			ID Type	ID Card		Birthday	2022-10-28				• Stranger	ſ
			ID NO			Country					Device Name_IPC01	

Click Click 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 \rightarrow People & Vehicle Management \rightarrow Vehicle Registration \rightarrow Add Vehicles \rightarrow Task Settings \rightarrow View Real-time License Plate Comparison Results \rightarrow 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.

Vehicle Registration	🕒 Ado 🖄 Delete 🕒 Impo	ort 🗝 🖪 Export
🗄 🛅 Allow List	Add New Vehicle	×
🗄 🛅 Block List	P	
🗉 盲 Temporary vehicle	* Number Plate	
	Owner Input Method 💿 Input Manually 🔘 Select f	rom person list
	Name	
	Phone	
	Vehicle Type Small Car	•
	Vehicle Color Black	-
	License Plate Type	
	Start Time 2023-06-16 00:00:00	iii
	End Time 2023-06-16 00:00:00	iii
	Description	
	Add and Continue OK	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".

Area Setting Channel Group Setting Task					
 Schedule Template 					
Monitoring Point	Monitoring Point	Applicable Scenario	$oldsymbol{ u} $ Face Capture Source $oldsymbol{ u} $	Schedule	
Q Search	Device Name_IPC Face Sur	veillance,Vehicle deployment	✔ Empty		
🗆 🛕 default area		Appli	cable Scenario	×	
Device Name_IPC					
Device Name_IPC		🗹 Face Surveilland	e 🧧 Vehicle deployment control		
Device Name_IPC		l]		
Device Name_IPC01					
Device Name_IPC02			ок	Cancel	
Device Name_IPC03					

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



• License Plate Capture and Comparison 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.



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.

Pass-by(Today): 57	Abnormal Temp: 0	Mask Off: 0	Face Comparison(Today): 22				
IPC03		022/10/28	20:19:07		[Plate Comparison]		
				Configuration	×	• Temporary	c
	ALC: NO	- 1	Face Matching Setting	s	•	19 Device Name_IPC03	
A COLORED IN			Pop-up Prompt 🛛 🗌 Block l	ist 🗌 Allow List 🔲 Stranger		10-28 20:19:03	
		1.5	Frame Holding Time(s) 🛛 🔾	Always Show 🔿 Automatically Hide(3s) 🔿 Automatica	ally Hide(5s) 🔿 Automatically Hide(10s)	<u>a</u> e	
		Ser.	Statistics Display				
			Pass-by(Today)	Abnormal Temp 🛛 Mask Off			
			Face Comparison(Today)	🗆 Block List (People) 🗌 Stranger			
			Vehicle Matching Setti	ngs			
			Pop-up Prompt 🛛 Block I	ist 🗌 Allow List			<u>آ</u> ها
			Frame Holding Time(s)	Always Show 💿 Automatically Hide(3s) 🔵 Automatica	ally Hide(5s) 🔿 Automatically Hide(10s)		L W. Ö
			Statistics Display				
			🗹 Vehicles Passing(Today) 🛛	🖉 Plate Comparison(Today) 🛛 Block List (Vehicle)			
4 9 16 25	36 🔺 🔲 📼	D (J) 🚨 🗵			Save		

• License Plate Capture Records

Click to view the license plate capture details.





Note: if you don't set the record schedule or record linkage is not configured for the corresponding events, no record will be searched after you enter the record playback interface.

• License Plate Comparison Records

Click

to view the license plate comparison details.



Click 🔯 to quickly enter the vehicle plate comparison interface. You can search the captured vehicle plate as needed.



8.3 Channel Group View

Channel Group Setting

Go to Home→ Channel Group Setting interface to set the channel group (See <u>Channel Group Settings section</u> for details).

> Start Channel Group View

After the channel group is set successfully, go to live view interface as shown below.

Monitoring Point	~	Pass-by(Today): 73	Abnormal Temp: 0	Mask Off: 0	Face Comparison(Today): 30
Channel Group	^	IPC01		2022/10/28	8 20:30-10
Q Search					
1 Device Name_IPC01 Device Name_IPC02	00				Duorentala
	1				
		4 9 16 25	36 🔺 💭 05	• [] [] [] []	図 📰 🗐 Self-adaptiv 💌 Full Screen 💌

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 to play all channels in the group.

2. In the current screen display mode, select a window and then click 🕑 beside the channel group name to play all channels of the
channel group in this window in sequence. (Put the cursor on the channel group name to display $\mathbf{\hat{o}}$)
If there is only one sub channel group under the parent group, select a window and then click in next to 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 I 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 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 **I** to play the previous sub channel group; click **I** to play next sub channel group; click **I** 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 \bigotimes to stop viewing.
- 2 Right click the auto-switch window and then click "Close Channel" to stop viewing.
- ③ Click I 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		^
game to	Home	Resource Management Video Preview1*	🗆 🏥 Video Previe	Create View	
Monitoring Point Channel Group	~ ~			Save View	
View	^			Modify View	
Video Preview1*				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 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. Click **I** to view the previous view;



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).

growth the	Home Resource Management	Video Preview1		≙ ∷ ≗ − □ × 2022-10-28 20:47:58
Monitoring Point Channel Group View	··· Video Pr	eview2	ê ▼ □ X 2022-10-28 2047-58	
Video Preview1	Monitoring Point Channel Group View			
	Wideo Preview1 Wideo Preview2			
	Start Auto-Switch	(4 9 16 25 16 🛋 🗖 🚥 🕼 🗐	Self-adapth ¥ Full Screen ¥ 📢 📗 🕨	
Start Auto-Switch	4 9 16 25 36 🛦	Self-adaptiv. 💌 Full St	creen 🔻	

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.



• Preset; Cruise; I : Trace

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".

By Time Slice	By Event	By Tag 🛛 I	Record Backup	Search Picto	ure Record S	Getting					
Area			🌣 Schee	dule Setting							
O Search			Char	nnel Name	Stream Type 🥆	- Record Schedule	Audio N	Recording Before Alarm(s)	🖌 🖌 After Alarm Time(s)	🖌 Expire Time(day)	🖌 Offline Record 🖌
default area			Device N	lame_IPC	Main Stream	OFF	Open		60	Never Expire	Close
_			Device N	lame_IPC	Main Stream	OFF	Open			Never Expire	Close
			Device N	lame_IPC	Main Stream	OFF	Open		60	Never Expire	Close

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.

Offline Record: When the IPC/NVR is disconnected with the storage server, the IPC/NVR starts offline record. After the network is connected again, the offline record of IPC/NVR stored on the SD card or HDDs will automatically transfer to the storage server.

Note:

- 1. The time of the IPC/NVR must be the same as the storage server.
- 2. A maximum of 8 channels can simultaneously transfer the offline records to the storage server.

3. Due to the limit of the storage capacity, the previous records of the IPC may be overwritten if the disconnection time is too long so that only a part of records can be replenished.

- 4. Only support the most recent 12-hour record replenishment.
- To set schedule:
- ① Click the "Schedule Setting" tab to go to the following interface.

Record E	Backup Search Picture	Record Setting		
	Schedule Setting			
			Schedule Setting	×
	Record Schedule		Schedule Name 5*24	
	⊕ Add		𝔗 ^𝒫 Copy 0 2 4 6 8 10 12 14 16 18 20 22 24	
			🖉 Sun.	*
	1 7*24		🔗 Mon.	\$
	5 *24		^	*
			d ^{er} Tue.	¥
				*
			8 Thu.	*
			🖉 Fri. 🗰	*
				*
			Save Ck	ose

2 Click [Add].

	Schedule Setting	×
Record Schedule	Schedule Name New Schedule 1	
Add	𝔗 Copy 0 2 4 6 8 10 12 14 16 18 20 22 24	
Q Search	🖉 Sun.	*
. 7*24	🖉 Mon.	*
E New Schedule 1	🖉 Tue.	*
E New Schedule 2	Â	*
	d ^e Wed.	¥
	🔗 Thu.	*
	🖉 Fri. 🖬	*
	🖉 Sat.	*
	Save	se

- ③ Enter the schedule name.
- Set the schedule. Drag the mouse on the timeline to add or erase the time period. Click to manually set the time period.
 Put the cursor on the set schedule name and then a deletion icon will appear. Click it to delete the 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 Setting as shown below. Select alarm type, enable record, set linkage channel and set schedules.

③ Click [Apply] to save the settings.

NVMS User Manual



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
\times	Stop viewing	Ð	Zoom in
⊴×	Audio on/off	Q	Zoom out
ල	Snapshot		Fit to window

Button Descriptions of Area 2:

Button	Description
234916	Screen display mode button. 2/3/4/9/16 screen mode is optional.
	Full screen
05D	Enable or disable OSD
X	Close all window viewing
•	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
*	Click it to edit the start time and the end time of backup
	Download
	Synchronous/Asynchronous Playback

Clip and backup:

Click to enter the edition status. On the recorded timescale, select the start and the end time or right click on the timescale and then

select [Change backup time] to set the backup start time and end time. After that, click to enter the record backup interface to view the backup file list.

• •		🕨 🛛	¥∰ ∰	📧 💽 🔵
12:45	12:48 12:46:28	12:51		13:00 I

Record E	ackup Sear							
	Backup							^
	 00:00:00 00 00 	02:00 (04:00 06:00	08:00 10:00	12:00 14:0	00 16:00	18:00 20:00	10-30 22:00 00:00
	Record B	ackup 🛛 🗐 Backup on Dev	/ 🖻 Backup Path					
	🕨 Start All	III Pause All 🔲 Stop A	ll 🗴 Clear All Finished Tasks					
		Channel	Start Time	End Time	Duration	Progress	Operation	Backup Path
		Device Name_IPC02	2022-10-29 12:45:27	2022-10-29 12:46:28	00:01:01	100%	-	C:\backup\Device_Name_IPC

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 to play.

Playback record event type includes manual recording, schedule recording, video detection (exception detection, video loss, overshadowing detection), motion detection recording, sensor recording, behavior analysis (object abandoned/missing, line crossing detection, intrusion detection, people intrusion detection, crowd density) 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 0 and the time scale can be zoomed out by clicking 0. The time scale can be restored to 24 hours by clicking 0. 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 or 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.



Clicking on enters the above interface. Select the face recognition NVR and then click "Upload" 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 "Upload" 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.

	Imj	port Target			×
Local Picture Target Picture Group					
Monitoring Point	C Export				
Q Search					
🗄 📓 🏠 default area	2022-10-29 12:37:00 Device Name_IPC01	2022-10-29 12:37:00 IPC01	2022-10-29 12:37:00 IPC01		
-					
Intelligent Server 💌	Par Alter				
Time	2022-10-29 12:36:59	2022-10-29 12:36:48			
2022-10-29 00:00:00 ~ 2022-10-29 23:59:59 箇	Device Name_IPC01	IPC01			
Search	Total: 281 50 💌			▶) 1	/6Page
					Cancel

Select cameras, search resource, query method and time to search targets. Then select the target and click [OK].

Add a face from the face database:

- 1. Click the "Group" tab.
- 2. Select the face picture from the person 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. The setting steps are as follows:

- 1. Select the NVR.
- 2. Enter the license plate number to select the plate from vehicle database of NVR.



Network device: select the record source from the NVR.

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].





Click D button on the top right corner to play in full screen mode. Double click the image to switch to slice search mode by day. Double click an image to switch to slice search mode by 5 minutes.

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

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

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

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 Record	Backup	Search I	Picture Record Setting							
Monitoring Point	Befor	e the event	0 s 🗜 To Stora	ige Playback						
Q Search										
🗈 🖃 🏠 default area			Device Name_IPC	2022-10-29 13:47:24	2022-10-29 13:59:05		Motion Detection		🗹 Main Str	
			Device Name_IPC		2022-10-29 13:42:44	00:00:40	Motion Detection		🗾 Main Str	
			Device Name_IPC			00:00:41	Motion Detection		🗹 Main Str	
			Device Name_IPC	2022-10-29 12:43:40	2022-10-29 13:59:05				🗹 Main Str	
			Device Name_IPC01	2022-10-29 13:58:28					🗹 Main Str	
			Device Name_IPC01		2022-10-29 13:59:05	00:00:37			Main Str	
Playback Source			Device Name_IPC01			00:00:36	Motion Detection		🗹 Main Str	
Network Device 💌 🕈			Device Name_IPC01			00:00:18	Motion Detection		🛃 Main Str	
Time			Device Name_IPC01			00:00:53			🗾 Main Str	
2022-10-29 00:00:00 ~ 2022-10-29 23:59:59 🛍			Device Name_IPC01			00:01:44			🗹 Main Str	
Event Type			Device Name_IPC01	2022-10-29 13:54:32	2022-10-29 13:54:50	00:00:18			Main Str	
Reverse			Device Name_IPC01			00:01:31	Motion Detection		🗹 Main Str	
Video Detection S Motion Detection			Device Name_IPC01			00:00:19	Motion Detection		🗹 Main Str	
Sensor Sece Event			Device Name_IPC01		2022-10-29 13:53:40	00:00:35	Motion Detection		🗹 Main Str	
POS POS Key Word			Device Name_IPC01	2022-10-29 13:52:46		00:00:38			🗹 Main Str	
									Main Str	
Search	Tota	⊧ 102 50	•					I4	< → →	1 /3Page

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

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 Get records from device or storage server.
- ③ Select date and event type.
- ④ Drag the mouse on the recorded time period to set the start time and the end time of backup. Then click [Record Backup].

(5) The backup progress will be seen during backing up the record. Click \square to pause; click \square to stop backing up the record; Additionally, you can start/pause/stop all backup tasks or clear all finished tasks in this interface.

By Time Slice By Event By Tag Record	Backup Search Picture Record Setting
Monitoring Point	Backup
	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
🗈 🖬 🍙 default area	Charel Charel Charel
	Channels
	Channels 1
	Channels ///
	Main Stream Backup Dev Backup Path
	IP Start All □ Pause All ■ Storo All ■ Clear All Finished Tasks
Calendar By Event	
Playback Source	No. Channel Start Time End Time Duration Progress Operation Backup Path
Network Device 👻	1 Device Name_IPC01 2022-10-29 13:20:26 2022-10-29 13:20:48 00:00:22 100% 🕒 C:\backupDevice_Name_IPC
Calendar 🔗	2 Device Name_IPC02 2022-10-29 13:20:26 2022-10-29 13:20:48 00:00:22 100% 🖿 C1backup1Device, Name_IPC
♦ Oct 2022 ▶	3 Device Name_IPC03 2022-10-29 13:20:26 2022-10-29 13:20:48 00:00:22 100% 🕒 C1backup1Device_Name_IPC
Sun Mon Tue Wed Thu Fri Sat	4 Device Name_IPC 2022-10-29 13:20:26 2022-10-29 13:20:48 00:00:22 100% 🍋 C\backupDevice_Name_IPC
23 24 25 26 27 28 29	
30 31 1 2 3 4 5	
Search	

"Backup on device": This function is applied to the added NVR devices. Search the record from the HDD of the NVR in this interface and then insert a USB storage device into the USB port of the NVR and then click this button. Then the recorded files 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. These snapshots saved on the storage server or SD card /HDD must be triggered by alarm events so that they can be searched.



1 Select the device and playback source.

2 Set the start time and the end time.

3 Click [Search]

Click the searched picture to zoom in. Click it again to return to its original size. Check the selected picture and click "Download" to export the selected pictures.

10 TV Wall

Click at the bottom right corner and then select "TV Wall Guide" to quickly set the TV Wall as shown below.



Please follow the guide in sequence to quickly set the TV Wall.

10.1 Add Devices

10.1.1 Add Decoder

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

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

Add, Edit or Delete Device	Device Setting	Area Setting	Channel Group Setting							
\equiv		Add] Delete							
Encoding Device (Online/To	tal number: 5/8)		Edit Devie	ce Name Output N	umber IP Addr	ess Port	Online Status	Open in the B	Browser	Delete
Decoder (Online/Total numb					Add Dec	oder				×
Intelligent Analysis Server (O	online/Total number:	. Quickly A	dd Manually Add							
Storage Server (Online/Total	number: 1/1)	🗘 Refresh						De	vice Quantity:	:0
Media Transfer Server (Onlin	e/Total number: 1/1)		Device Name	IP Address	Port	Subnet Mask	Version	Device ID		
Alarm Server (Online/Total n	number: 1/1)									

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

10.1.2 Create and Connect Decoder

The decoder which needs to be connected to the platform must be the master decoder and in platform mode. Note that the version of the decoder must be compatible with the platform, or the decoder cannot be connected to the platform.

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.

Device Information	Device Information	0	Device Information	Basic Settings				
Basic	Soft Version Version Date	2.2.1.1 20220809	Basic	Use	r Permission	Master	•	
System Maintenance Time	Kernel Version Device Type	19F6-19F6-19F6 TD-A130	System Maintenance	Dev	ice Name	Decoder1		
	MAC	00:18:AE:96:85:43	Time					

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

Add, Edit or Delete Device	Device Setting	Area Setting	Channel Grou	up Setting Task							
Ξ		🛨 Add	🗓 Delete								
Encoding Device (Online/Total number: 5/8) Decoder (Online/Total number: 0/1)			Edit	Device Name	Output Number	IP Address	Port	Online Status	Open in the Browser	Delete	

10.2 Add TV Wall

♦ Create TV Wall

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

TV Wall View TV Wall Task Settings	TV Wall System	n Setting				
TV Wall Plan		Draviou	P Docord			
	Γ			C.	reate i v vvali	- ^
Create TV Well	(1 Basic Layo	ut Config — 🛛 Bind Deco	
		TV Wall Server				
		TV Wall Server				
		* Name				
		Create TV Wall 1				
		Matrix	🌐 Draw			
		TV Wall Number				
						Next

Select the TV wall server and then set the TV wall name, display matrix and TV wall number.

Note: The TV wall number cannot used repeatedly.

Click [Draw] to draw the TV wall layout manually.



After that, click [Next] to bind decoders.

On the left list, click

			Create TV Wall			<	
		🕕 Basic La	iyout Config — 🧿 Bind Deco	der			
Decoder Output ④ Add Decoder							
Decoder							
Decoder							
				Prev	vious Cancel Finish		
o bind the de	ecoder. If	there are n	o decoder to b	ind, you can c	lick 🕀 Add	Decoder	to quickly
1.4	11.4	J J			B :	1	1

to the decoder adding interface and then add the decoder as needed. After you clicking *(interface)*, it needs several seconds to connect the decoder. After the decoder is connected, the output will be listed under the decoder name.

If you want to unbind the decode, click behind the decoder name to unbind it.

NVMS User Manual

Modify TV Wall								
Basic Layout Config — 2 Bind Decoder								
Decoder Output	HDMI0 Decoder	HDMI1 Decoder						
HDMI0								
Decoder(1) P Decoder(3)								
			Prev	rious Cancel Finish				

Drag the output to the window to bind the output and the window. After that, click [Finish] to save the setting.

To change the output binding, select the TV wall and click 🔋 , select 🖉 to modify. Click 🔟 to delete the TV wall.

10.3 TV Wall System Settings

10.3.1 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 View TV Wall Task Settings TV Wall	System Settir	ig					
Ē	Channel Name Please select			Conflicts Between Channels' Number			
Ghannel Number Setting	🖄 Export	Channel Number	▲ Minimum Conflict-Free Channel Number: 1034	1 2 3 4 5 6 7 🚺			
🖼 Decoder Configuration		Name	Channel Number	IP通道			
🕒 TV Wall Backup							
ள் Alarm Setting on TV Wall							
	Save	Cancel					

10.3.2 Decoder Setting



Display red box: when the decoding channel triggers alarm, a red box will show on the TV Wall.

Display ID: the channel ID will be shown on the channel decoded by the decoder

10.3.3 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.

10.4 TV Wall Task Setting

Go to Home \rightarrow TV Wall Management \rightarrow Task Setting. Select the TV wall you want to set tasks. Then click "Create Task". Select plan name, enter task name, set run time and enable plan task.



Click "Start Task" to start the task. Click "Stop Task" to stop this task.


Modify or delete task

New_Plan_Task 1								
	🗹 Auto Run							
Plan	1_Plan_1							
Start Time	00:00:00							
Task Plan	Daily							
		۲/	~					
		Ľ	Ш					

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

Check the task under the TV wall and then click [Delete] to delete the task as shown below.



10.5 Video Preview

• Create a plan

Click E beside the TV wall name or click [Create Plan] to create a new plan for the created TV wall.

TV Wall View TV Wall Task Settings TV Wall	l System Setting		
TV Wall Plan	Preview Record		
⊕ Add TV Wall	Monitoring Point 🗸		
또 Create TV Wall 1 (1) 🖃 다 :	 Q. Search C. Search Device Name_IPC Device Name_IPC Device Name_IPC01 Device Name_IPC02 Device Name_IPC03 IPC IPC01 IPC2 IPC03 	Create Plan × Plan Name 1_Plan_1 Plan No. 1 Edit ID Cancel	No TV Wall plan, please create pla

Double click the plan name to show the plan.

Drag the monitoring points to the corresponding window respectively to decode image. Then click 🔳 to save the plan.

• Configure Plan

Double click the set plan to display on the left window as shown below. Drag the monitoring point to the window to play.



Toolbar Menu

1	4	9	16	25	36	Ħ	6	≥₁	0	1
			Т							
			1			2		3	4	5

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

2. Open Window: Click this icon and then drag on a window to open a window on it. The window can be dragged to anywhere on the big window. Click the opened widow and then drag the blue side of the window to zoom in/out it.

Click this icon again to stop opening other windows.



- 3. Show/hide ID: show or hide all ID number (including all channel numbers of the multi-screen display window).
- 4. Show/hide window ID: show or hide the ID number of all windows (Note that the channel numbers of the multi-screen display

window are not displayed).

5. Click [Save] to save the current plan.

Select a window assigned a monitoring point and then press the right mouse and drag to another window to copy monitoring point to it.

♦ Right-click Menu



- 1. Screen display mode: $1 \langle 4 \rangle \langle 16 \rangle \langle 25 \rangle \langle 36 \rangle$ screen mode is optional.
- 2. Preview: click it to view the video.



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

Alarm Log Search Alarm Se	tting									
Ē	Alarm Type		S All OFF C Restore d	Area			Schedule Setting			
E Alarm Linkage Settings		Record								
	Server Monitoring Point Motion Detection Monitoring Point Motion Detection Monitoring Point Motion Detection Monitoring Point-Line Coasing Detection Monitoring Point-Line Coasing Detection Monitoring Point-Region Intrusion Detect Monitoring Point-Region Intrusion dete Monitoring Point-Target Counting by Monitoring Point-Thermal Image Alarm Monitoring Point-Ranorm Irenpertur	Null Null Null Null Null Null Null Null	Null Null Null Null Null Null Null Null	Null Selectable Select	Null Device Name Perice Peric	0/9	Null Wall Linkage Settin Selected Device Selected Device default area Device Nam	Null	D/1 T	
	Monitoring Point-Lemperature alarm Monitoring Point-Fire detection alarm								ancel	

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. Play audio: click it to play live audio. Click "Stop audio" to stop playing.
- ♦ Auto-Switch Group
- 1. Create Auto-Switch Group
- ① Click Auto-Switch Group under the screen and then click ③ to create auto-switch group.

	Auto-Switch Group 🔺
Auto-Switch Group	€ Create Auto

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

	Create A	uto-Switcl	h Group			×
	1 Auto-Switch W	indow — 🛛	Monitoring F			
Auto-Switch Name	New_Group_Dwell	1				
Auto-Switch Interval	10 s	-				
Auto-Switch Window						
2-U 2-1 2-2 2-3						
2 3-0						
1 1-0						
				Next	Cancel	

 \bigcirc Click [Next] to select the auto-switch channel group.

	Create Auto-Sv	vitch	Group		×
	Auto-Switch Window	2 1	Monitoring Point		
Auto-Switch Name	New_Group_Dwell				
Auto-Switch Interval	10 s				
Monitoring Point					_
Selectable Device			Selected Device	.	
Q Search			Device Name_IPC01		
🗆 🛕 default area			Device Name_IPC02		
Device	Name_IPC		Device Name_IPC03		
Device	Name_IPC				
📑 Device	Name_IPC				
🤝 Device	Name_IPC01				
🤝 Device	Name_IPC02				
🖶 Device	Name_IPC03				
📑 IPC					
📑 IPC01					
IPC2					
			Previous Cancel	Finish	

④ Enter auto-switch name and dwell time.

2. Execute auto-switch



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

3. Modify or delete auto-switch

Right click on the auto-switch group name and select Modify or Delete to modify or delete the auto-switch. Or click and then select the corresponding icon to modify or delete the auto-switch.

Auto-S	witch Group		Auto-Switch C	Group 🔺	`
New_G	• Modify Delete	'eat	New_Group.	:) 2 10	⊙ eate Auto

♦ Auto-switch plan

1. Create auto-switch plan

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

_						
		Aut	to-Switch S	Setting		×
	No.	Plan Name	Move Up		Operation	
		1_Plan_1 (1)			Join in	
		1_Plan_2 (2)			Join in	
TV Wall Plan						
Add TV Wall						
🖽 Create TV Wall 1 (1) 🛛 🗉 💭 🗄						
创	Auto-Switch Interva	10 s 🔻			ОК	Cancel

2.Start/stop auto-switch

Ξ	땐 Create TV Wall 1 (1)	⊡ (2):
		⊿ 前
		2 🖻
	1_Plan_2(2)	∠ 🖻

Click 🖸 behind the TV wall name to start auto-switch plan. Click 🙆 to stop the auto-switch.

3. Modify auto-switch plan

Click again to modify the auto-switch plan.

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

10.5.1 Decoder Input

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

Preview	Record	* 1_Plan_2
Monitoring Point	~	R.
Channel Group	~	Decoder1: HDMI IN0
Decoder Input	^	
Decoder1		
HDMI IN0		25

10.5.2 Playback

Playback on TV Wall

Click "Record", select playback source and time, check the alarm events and then drag the cameras (or channels) to a window to search and play the records.

Dereview		* 1_Plan_2						
Monitoring Point	^	5	5		2	8		5.
Q Search								
🗆 🍙 default area		Device Name_IPC02 1				a	· · · · · · · · · · · · · · · · · · ·	
Device Name_IPC		20	2	. 5.	5	31		20
Device Name_IPC								
E Device Name_IPC		20	5			5		1
Device Name_IPC01								
Device Name_IPC02		2 I		5 - S-	8	2	5 Su	20 20
Device Name_IPC03			2					
PC								
PC01		5	5		8	5		
F IPC2								
TIPC03		5	21			5		5.
Channel Group	~							
Decoder Input	~		[25] [36] III 🕑	i (o) (li)				
Playback Source			0 04:00 06:0	00 08:00 10:	00 12:00 14	4:00 16:00	18:00 20:00 ;	10-30 22:00 00:00
Network Device		Window1			12:43:40			
Time			Manual	📕 Schedule 🛛 🔲 Video De	etection 📒 Motion Dete			ting 📃 Behavior Analysis
2022-10-29 00:00:00 ~ 2022-10-29 23:59:59	9 📾	Auto-Switch Group 🔺						
Event Type								
Reverse		⊕ Create Auto						

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

Preview	🔛 Record	* 1_Plan_2	×	
Monitoring Point	^		20	20
Q Search				2
🗆 🛕 default area		Device Name	 Screen Display Mode	•
Device Name_IP Device Name_IP			PlayBack Again	20
Device Name_IP			Set as Preview Window	▶ 2
Device Name_IPC	201		Playback Stream Type	•
Device Name_IPC	02		Stop Decoding	õ.
🤝 Device Name_IP	03			
📑 IPC			Set as Alarm Window	õ.
PC01				

- 1. Screen Display Mode: 1/4/9/16/25/36 screen mode is optional
- 2. Save as an alarm window: click it to set the current window as an alarm window. The alarm linkage image will play in this window. Please go to Alarm Center→Alarm Setting interface. Select the alarm type, link the TV wall and set the schedule first.
- 3. Save as preview window:: the current camera or the historical camera is optional. If the current camera is selected, the window will

display the live video of the current camera in the record page. If the historical camera is selected, the window will display the live video of the camera decoded in this window last time.

- 4. Playback stream type: main stream or sub stream is selectable.
- 5. Stop decoding

The following picture is an example of TV Wall.



10.6 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.



11 Alarm Management

11.1 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.

11.2 Alarm Configuration

1) Go to Home \rightarrow Device Setting interface.



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

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

Alarm Log Search Alarm Setting									
Ē	Alarm Type		FF 📿 Restore de	fault Are	ea Please sele		★ Schedule Setting		
		Name	Audio		∼∣ Record	✓ Alarm Pre ²	view 🗸 Snapshot		Alarm Output
B Manual Alarm Out	Server Monitoring Point	Device Name_IPC	V OFF	Null	Null	Null	Null	Null	
SOP Setting	Monitoring Point-Motion Detection	*Device Name_IPC	✓ ON	Null	A Null	⊿ ^{Null}	A Null	🔺 Null	
≗⊒ Alarm Task Settings	Monitoring Point-Video Loss	Device Name_IPC	✔ OFF	Null	Null	Null	Null	Null	
M Email Cattings	Monitoring Point-Abandoned/Missing Monitoring Point-Exception Detection	*Device Name_IPC	✓ ON	Null	A IPC01	⊿ ^{Null}	A Null	A Null	
	Monitoring Point-Line Crossing Detecti	Device Name_IPC02	V OFF	Null	Null	Null	Null	Null	
CIPA Alarm Setting									

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 Select Select "ON" to enable all alarm linkages of the device (schedule excluded).

*Device Name_IP	PC 🗸	ON	Null	IPC01	Null
Device Name_I	ON	OFF	Null	Null	Null
Device Name_I	OFF	OFF	Null	Null	Null

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

Name	Audio	✓ Preset	\sim	Record 🗸	Alarm Preview	\sim
lame_IPC	✓ OFF	Null	1	Link to itself (C	n)	I
Name_IPC	✓ ON	Null	۱ 🔪	Link to itself (C	rff)	ا بر
lame_IPC	✓ OFF	Null	1	Free Choice		

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.

	Name	Audi	io 🗸 Preset	∽∣ Record	\sim	
	Device Name IPC	✓ OFF	Null	Null		
	evice Name_IP	C] Record L	inkage Settin	ig		
Enabled		-			~ ^	
Selectable Device	e 1/9	9 Selec	ted Device	0/1	<u> </u>	
Q Search					× •	
 default - Dev Dev	area ice Name_IPC ice Name_I ice Name_I ice Name_I D1	< > + « »	 default area Device Nam 	ne_IPC		
				Cancel]	
Check the selectable channel and click to	select the chan	nel; check th	e selected cha	annel and cli	ck to	o remove this c
click to select all channels; click to r	remove all selec	cted 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, visitor alarm linkage and VIP 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".

11.3 SOP Settings

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

1. Click \bigcirc Add to add a SOP name.



2. Click • Add to create a SOP action.

SOP	Add Ö Delete
⊕ Add	Index Edit Delete
1	Create SOP Action X
	create sor Action
	SOP Action Input less than or equal to 64 ch
	OK Cancel

3. In the alarm linkage settings interface, select the alarm event and enable SOP of the relevant device.

Alarm Type	() all on 🛇	All OFF	C Restore default	Area	Please select	-	🔅 Schedule Se	tting	Q Filter
	∽ Snapsho		Alarm Output		Voice Broadcast	∽∣ TV Wall	∽ Trigger Em.		$m{arphi} $ Schedule $m{arphi} $
🗄 Server	Null	Null		Null		Null	Null	Null	
Monitoring Point									
	Mull	Null		[*Device	Name IPC02]	SOP Linkag	ge Setting	×	
Monitoring Point-Video Loss	Null	Null							
Monitoring Point-Abandoned/Missing	Null	Null	Enabled 🧾					<u> </u>	OFF
Monitoring Point-Exception Detection									
Monitoring Point-Line Crossing Detecti	Null	A Null							
Monitoring Point-Region Intrusion Det	Null	Null	UnSelect S			Select SOP			OFF
Monitoring Point-People Counting	Null	Null							
Monitoring Point-Face Detection	Null	Null							OFF
Monitoring Point-Crowd density detect	/ Nuii		 1						
Monitoring Point-People intrusion dete	Null	Null							
Monitoring Point-Scene change	Null	Null				\			
Monitoring Point-Offline									
Monitoring Point-Target Counting by									
Monitoring Point-Face Comparison									
Monitoring Point-Thermal Image Fore									
Monitoring Point-Thermal Image Alarm					>>				
Monitoring Point-Abnormal Temperatu									
Monitoring Point-Temperature alarm									
Monitoring Point-Fire detection alarm							ОК	Cancel	
Monitoring Point- Anti-tampering Alarm									

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.

NVMS User Manual

± Server		Handle Alarm S(٥D		X Nu	dl Not
Monitoring Point			<u></u>			
Monitoring Point-M					Nu	ill Nul
Monitoring Point-Vi	Alarm Time	2022-10-29 14:36:46			Nu	ill Nul
Monitoring Point-At	Alarm Source	Device Name_IPC02			, Nu	ill Nul
Monitoring Point-Ex	Alarm Type	Monitoring Point-Motion Detection			A	A
Monitoring Point-Li	Index	Operation Action	Handling Status	Handling Time	A Nu	
Monitoring Point-Re	1	XXX			Nu	ill Nui
Monitoring Point-Pe					Nu	ill Nul
Monitoring Point-Fa					Nu	ul Nul
Monitoring Point-Cr						<u>A</u>
Monitoring Point-Pe					Nu	ill Nul
Monitoring Point-Sc				Save process] Nu	ill Nul
arm 🗹 Motion Detection 🗹 Face Alarm 🗹 C		Open the Same Alarm Operation		_	Task 🔵	SOP Filter
Alarm Source	Disposition	False Alarm 🔍			ce Capture	Alarm Proces
Device Name_IPC01 Monitor	Remark	Input loss than or equal to 100 characters				Ø
IPC01 Monitor		input less than or equal to 100 characters				2
Device Name_IPC02 Monitor						
Device Name_IPC01 Monitor						Ľ
IPC01 Monitor				Save Cancel		Ø
Device Name IPC01 Monitor						Ø

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

2022-10-29 14:38:40						
2022-10-29 14:38:40						
2022-10-29 14:36:46	Device Name_IPC02	Monitoring Point-Motion Detection	图	Processed	False Alarm	
2022-10-29 14:36:31						
2022-10-29 14:36:31						

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.

2022-10-29 143646 Device Name IPCO2 Monitoring Point-Motion Detection 💿 👘 🖉 Processed False	2022-10-29 14:38:40					
	2022-10-29 14:36:46	Device Name_IPC02	Monitoring Point-Motion Detection	eي.	Processed	False Alarm
2022-10-29 143631 Device Name_IPC01 Monitoring Point-Motion Detection O Alarm Preview 2	2022-10-29 14:36:31			Alarm Preview		

11.4 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 Setting								
Ē	Add	Delete						
🕞 Alarm Linkage Settings		Task Name Chan	nel Numbe	r Channel Schee	dule Interval Time(
ろ Manual Alarm Out		Add	Alarm [.]	Task	×			
S SOP Setting	Task Name	New_Plan_Task1						
å⊒ Alarm Task Settings	Interval Time(min)	10						
M Email Settings	Schedule	7*24	-	🛠 Schedule Setting				
	Alarm Type	Alarm task-Leaving Alarm	-					
்ட் SIRA Alarm Setting								
	Selectable Devi	ce 0/10		Selected Device	0/0			
	🗆 🗆 defaul	t area						
	De	evice Name_IPC		$\overset{\langle 1}{\frown}$				
	🗆 De	evice Name_IPC						
	🗆 De	evice Name_IPC						
	□ De	evice Name_IPC01	\gg					
		IDCO2						
				0	K 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 Setting										
Ē	Alarm Type	() All ON	⊗ailoff <i>C</i>	Restore default	Area Ple		▼ 🌣 Sch	edule Setting		
E Alarm Linkage Settings		Name						✓ Alarm Output		✓ TV Wal
B Manual Alarm Out	Server Monitoring Point	*New_Plan	✓ ON	Null	A Null	A Null	A Null	⊿ ^{Null}	⊿ ^{Null}	A Null
S SOP Setting	Parking Lot									
≇Ξ Alarm Task Settings	Alarm Task Alarm task-Leaving Alarm									

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



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.

11.5 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.

Sender'	's Name			Sender's Email A	ddress	
SMTF	P Server			SMT	P Port	Default
5	Security	No				
Us	ername			Pas	ssword	
		Apply Test				
🗄 Add						
Recipie	ent	Email Address	Edit D	elete Test Em	ail	
		Add Re	ecipient's Er	nail	×	
		Recipient				
	Recip	ient's Email Address				
				OK Cancel		

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 Setting					
Ē	Alarm Type	() All ON () All OFF () Restore default	Area Please select	✓ Schedule Setting	ng
E Alarm Linkage Settings		$m{arphi} $ Snapshot $m{arphi} $ Alarm Output	✓ Voice Broadcast	∨ TV Wall Trigger Em…	
<i>B</i> Manual Alarm Out	 	Null Null	Null	Null	Null
SOP Setting		A Null A Null	A Null	Null Null	Null
	Monitoring Point-Video Loss	Null Null	Null	Null	Null

11.6 Alarm View

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



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.

Alarm Time	Alarm Source	Alarm Type	✓ Record & Playback	Device Playback	Storage Snapshot	Device Capture	Alarm Processing	Handling Status	Disposition	Remark
2022-10-29 14:38:40										
2022-10-29 14:38:40										
2022-10-29 14:36:46	Device Name_IPCC	02 Monitoring Point-Motion Detection	n			쩐	Ø	Processed	False Alarm	
2022-10-29 14:36:31					Alarm Preview					
2022-10-29 14:36:31										
2022-10-29 14:35:56										~
Close face comparisor	on alarm pop-up window			Authent	ication Server Address:	127.0.0.1 Port: 60	103 User Name: adn	in CPU: () 29	6 Memory: 🛛 49	% 🖆

11.7 Alarm Log

Alarm Log Search Alarm Setting										
That is a second second			_	_						
All Types	~	Time 2022-11-22 00:00	0:00 ~ 2022-11-22 23:59:59 🗰 🛛 😽	earch						
		🗳 Export								
						Record & Playback				Handling
		2022-11-22 18:15:46	IP通道 18	Monitoring P						▲ Unprc
		2022-11-22 18:15:46	Device Name155.254Device Name15_IP通道	Monitoring P						▲ Unprc
		2022-11-22 18:15:45	Device Name155.254Device Name15_IP通道	Monitoring P						▲ Unprc
		2022-11-22 18:15:45	27TVT_IP通道 18	Monitoring P						▲ Unprc
		2022-11-22 18:15:45	40.335555_IP通道 06	Monitoring P						▲ Unprc
		2022-11-22 18:15:45	27TVT_233	Monitoring P						▲ Unprc
		2022-11-22 18:15:44	40.335555_IP通道 04	Monitoring P						▲ Unprc
		2022-11-22 18:15:44	40.335555_IP通道 05	Monitoring P						▲ Unprc
		2022-11-22 18:15:43	40.335555_IP通道 05	Monitoring P						▲ Unprc
		2022-11-22 18:15:43	Device Name155.254Device Name15_IP通道	Monitoring P						▲ Unprc
		2022-11-22 18:15:43	40.335555_IP <u>通道</u> 06	Monitoring P						▲ Unprc
		2022-11-22 18:15:42	40.335555_IP通道 06	Monitoring P			۲	臣	L	▲ Unprc
		2022-11-22 18:15:42	IP頻道 04	Parking-Parki	豫BZ11166					▲ Unprc
		2022-11-22 18:15:42	100.9_IP頻道 01	Monitoring P						▲ Unprc
Server	~	2022-11-22 18:15:42	IP頻道 01	Monitoring P						▲ Unprc
Device	~	2022-11-22 18:15:42	IP頻道 01	Monitoring P						🛦 Unprc
Monitoring Point	~	2022-11-22 18:15:42	Device Name155.254Device Name15_IP通道	Monitoring P						▲ Unprc
Sensor	~									
Combined Alarm	~	Total: 181747 50							▶)] 1	/3635Page

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



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

11.8 Manual Alarm Out

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

		NVMS User Manual
Alarm Log Search Alarm Setting		
Ē	Alarm Output	
🕞 Alarm Linkage Settings		Alarm Holding Time(s) 5
🔑 Manual Alarm Out	🗄 🗹 🛕 default area	Trigger Clear
S SOP Setting		

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

11.9 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.videoguard.ae					
Port	80					
Protocol	VIDEO GUIARD					
Send heartbeat						
These lists and [1]	200					
nime 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.

E-Map 12

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.

12.1 E-Map Settings

12.1.1 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.

12.1.2 Add Hotspot

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



Put the cursor on the map name and then some icons will appear. Click 📕 to add its sub map. Click 🖉 to modify the map name and

change its parent map.

Map Management	
⊕ Create	
Q Search	
🔏 1	+ 🖉 🗓

Click 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.



12.1.3 E-Map Monitoring

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

NVMS User Manual



Switch to Alarm EMap: if enabled, tem will automatically switch to the E-map on which the alarm occurs.

Auto Alarm View: if enabled, 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 inclusion closes 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.

	E-Map M	onitoring	×
1 4 9 16 Sub Stream	- I		

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 A	Area Setting Channel Group Se	ting Task							
Encoding Device	OSD Setting Image Se	ting Stream Setting	Motion Detection	Motion Alarm Linkage	Exception Detection	Face Comparison	Eace Detection	Target Counting	Region
		ang orean occurs	motorroctection	inedon viann Einidge	Exception Detection	ruce companion	race betterion	Turget counting	, negioni
Q Search									
😑 🛕 default area	IPC02	2(122)	710/29 %1:58:4						
10.20.21.14_9008				Save Panoramic Picture	e 💽				
192.168.1.88_9008	1	A		Save Target Cutout					
☐ 192.168.226.201_9008				Detection Target	Motor Vehicle	Sensitivity -		4	14
					Human	Consitiuity			
Device Name_IPC		B				Sensitivity			55
Device Name_IPC					🛃 Non-motor Vehi	cle Sensitivity -			38
Device Name_IPC									
🤝 Device Name_IPC01				Reset Timing	Daily 🔻	00:00:00 🗘			
Uevice Name_IPC02									
Device Name_IPC03			1	Show OSD Name	Horizontal Position	5788	Vertical Position		
🗐 👝 IPC			1.725						
📑 IPC	🧳 Start Draw	Clear							
🖃 👝 IPC01									
IPC01	Alert Line 1	Direction B->A							
🗏 📾 IPC2	Reset								
IPC2	порт								

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 Sta										*
Monitoring Point	[Flow	Statistics] Statistical type Compa		me period Yesterday 🛛 🔻	Passenger flow type		▼ Auto	refresh 1 minute 🤻	C Refresh C Export Picture	
Q Search	Date: 20 Statistica		Task Management ×							
🗆 🏠 default area	Monitori	Monitoring Point	No.	IP Channel Name	One-key Re	set Enabled 🗸	 Event Type 			
				Device Name_IPC02		ON 🔻		period Yesterday	- Inside	
		default area Device Name_IPC							0	
	Statist	Device Name_IPC Device Name_IPC								
		Device Name_IPC01								
		Device Name_IPC02 Device Name_IPC03	h i							<
· · · · · · · · · · · · · · · · · · ·		IPC								
		■ IPC2								
		TPC03								
		Voice promot 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 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.

Real-time Statistics Heat Map Historical St	atistics Flow Control					ł		
Monitoring Point	[Flow Statistics]	Statistical type Compared to the same period Yesterday	✓ Passenger flow	type Human 🔻 auto	refresh 1 minute 🔻 C Refresh	Z Export Picture		
	Date: 2022-11-02							
 default area Device Name IPC02 	Statistical Type: Human Monitoring Point Device Name_IPC02;		_		2 10-48-08			
	Total NO.(INI/Human 78	Compared to the same period Yesterday	• Total Exiting/H			+		
	Statistics of Total Traffic Flow 👻		,		в			
i	40-	\sim	,					
	30 -			Monitoring Point: Device Name IP	C02			
	20-			People Entry	80 🎅 People Exiting			
				🚘 Vehicle Entry	0 🚔 Vehicle Exiting			
	10-							
Apply			00 11:00 12:00 13:0	00 14:00 15:00 16:00 17:00	1800 1900 200 2100 2200	23:00 24:00		

Please select the type as needed to view the flow trend. Click C Refresh 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.



13.3 Heat Map

Go to Home \rightarrow Target Counting \rightarrow 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.

NVMS User Manual



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.



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

Real-time Statistics	Heat Map	Historical Statistics	Flow Control			Add	Task		×
[Task list]									
				* Task Name	Task 01				
				* Maximum Threshold					
				Turo	Human	_			
				rype	Tuman				
	Add Tasi	>		Schedule	7*24				
				Selectable Device			Selected Device		0/0
				🖂 🗆 default are					
					Name_IPC02				
								$\dot{\Box}$	
						×	>		
								OŔ	Cancel

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



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

Click to enter the flow control preview interface.



In the above interface, you can switch the camera and view the image. Multiple channels also can be viewed in the same time by selecting multi-channel display mode. When the people/vehicles inside exceed the threshold, the icon will turn red.



Click on \searrow exits the current page.

14 User Management

Go to Home \rightarrow User/Role as shown below.

User/Role					
User/Role list					
	Role name				
Q Search	Monu pormission	Coloct All			
Super Administrator	Menu permission	Select All			
		Resource Management	Server Management	Record Setting	Alarm Management
		🗹 E-Map	🖂 TV Wall	Configuration	Target Counting
		Search	Group Management	📨 Data Dashboard	
	Operation Permission	Select All			

There is a default super administrator by default. The username is admin; the default password is 123456. The super administrator cannot be deleted.

Modify the password of the super administrator:

User/Role list					
④ Role	Enable				
Q Search	* User Name				
😑 😃 Super Administrator			M	odify Password	×
💄 admin	* Password	Modify Password	IVIC	Juliy Passworu	~
忠 1	Role	Super Administrator 🔹	User Name		
			* Original password		
	Schedule		* Password strength	🔿 Weak 🔿 Middle 💿 Strong	
	Bind MAC Address				
	Remark		* Password	Enter Password	
			* Confirm Password		
	Create Security Questions / Answers	Edit Security Questions / Answers		OK	ł
		Save			

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

Select the super administrator and then click [Edit Security Questions/Answers] to modify the questions and answers as needed after verifying the username and password.

Click "Role" to pop up the following interface.



Enter the role name and then check the permission as needed.

Put the cursor on the added role. Two icons will appear. Click 👌 to add a user.

	Enable		
	* User Name	Create a user 1	
	* Password strength	O Weak O Middle O Strong 8-16 characters; numbers, special characters, upper case letters and lower case letters must be included.	
	* Password		
	* Confirm Password		
	Role		
	Schedule	7*24 💌	
⊙ Role	Bind MAC Address	00 : 00 : 00 : 00 : 00 : 00	
Q Search	Remark		
2 admin 2 1		Save	

After the user is added under the role, put the cursor on the user name. Then a deletion icon will appear. Click it to delete the added user.

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 Log	Backup and Restore Con	figuration Real-time Status	Status Log							
				_						
Time 2022-	10-29 00:00:00 ~ 2022-10-2	29 23:59:59 🗎 Log Type	All Types	Search						
🖸 Export										
No.			Node Name					Record & Playback	Device Playback	Storage Snap
1	Operation Log	2022-10-29 22:03:40	Client	Login/Logout	admin	admin 127.0.0.1 C0:2	Login			
2	Operation Log		Client	Login/Logout	admin	admin 127.0.0.1 C0:2	Logout			
3	Log Configuration	2022-10-29 21:53:30	Client	User Parameter	admin		Edit Permission Group,Name:1			
4	Log Configuration	2022-10-29 21:53:07	Client	User Parameter	admin		Edit Permission Group,Name			
5	Log Configuration	2022-10-29 21:52:48	Client	User Parameter	admin		Edit Permission Group,Name			

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.



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 device, decoders, alarm host 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.

Ch	eck Log	Backup and Restore	Configuration	Real-time Status	Status Log		
Time	2022-	-11-22 00:00:00 ~ 2022-	11-22 23:59:59	≝ Search			
🖸 Exp	port						
N	o.	Туре	∼ I	Record Time	Node Name	Details	
		Monitor online	2022	-11-22 19:44:09	27TVT_QNO-6073R		
	2	Monitor offline	2022	-11-22 19:43:48	27TVT_QNO-6073R		
	3	Monitor online	2022	-11-22 19:43:13	27TVT_QNO-6073R		
	4	Monitor offline	2022	-11-22 19:42:50	27TVT_QNO-6073R		
	5	Monitor online	2022	-11-22 19:42:13	27TVT_QNO-6073R		
	6	Monitor offline	2022	-11-22 19:41:50	27TVT_QNO-6073R		

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 Local Configuration

16.1.1 Basic Settings

Go to Home \rightarrow Configuration \rightarrow Local Configuration

Auto Startup	
Auto Login	
Trigger audio when the node is offline	
Show tips when the node is offline	
Substream display of new view	
Verify the password before exiting the program	
Server exception linkage 🕜	
Sound Loop	
Decoding Mode	Soft Decoding Iardware Decoding
Video Configuration Rules	 Specification First Clarity First
Select Language	English(United States)
Temperature Unit	°C 🔻
	-
Time Display Format	yyyy-MM-dd hh:mm:ss
	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.

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

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

Server exception Linkage: if enabled, the system will skip to real-time status interface when the server error occurs.

Sound Loop: If enabled, the alarm sound will be repeated continuously.

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: \mathbb{C} or \mathbb{F} can be selected

In this interface, you can also set video configuration rules, language, time display format and so on.

16.1.2 Resource Tree Settings

Full name display for DVR/NVR's channels		
Resource tree automatically expands		
Show alarm state for the monitoring point		
Resource Tree Sorting Rules	Sort by Name	\bigcirc Sort by Time
	Apply	

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.

Resource tree automatically expands: please enable as needed.

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



In addition, you can also select the resource tree sorting rules as needed.

16.1.3 Record and Snapshot Settings

Go to Home \rightarrow Configuration.

Playback Source	Network Device	
Save Recording Files To	C:/record	
Save Backup Files To	C:/backup	
Backup File Format	AVI	
Save Snapshots To	C:/capture	6
Snapshot Number		
Max File Size for Manual Recording and Record Backup	© 512MB ○ 1GB ○ 2GB	
	Apply	

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.

16.1.4 Alarm Sound Settings

Go to Home→ Configuration→Local Configuration →Alarm Sound Setting

Alarm Sound Default Audio 🦰 📣	
Node Dropping Sound Default Audio 🦰 🗘	
Sensor Alarm Sound Default Audio 🦳 🖒	
Apply	

In the alarm audio setting interface, click is to upload the local alarm sound, node dropped sound and sensor alarm sound. After these sounds are uploaded, click to listen

16.1.5 Alarm View Settings

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

Automatic Pop-up Alarm Page	
	Full screen display when popping up Full Screen Display DISPLAY1
Close Alarm Page	Auto Shutdown O Manual Shutdown
	Time 30 s 💌
Number of Screens	
	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).

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



16.1.7 OSD Position Configuration

Click Home \rightarrow Configuration \rightarrow 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.

16.1.8 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.

Х	0
Y	60
Duration(s)	30
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.

16.1.9 Snapshot Attribute Display Settings

Go to Home \rightarrow Configuration \rightarrow Local Configuration \rightarrow Snapshot Attribute Display Setting interface as shown below.

The snapshot attribute display and target box display can be set here.

Snapshot attribute display setting: you can set the attributes of face, human and vehicle. Please select the corresponding attributes/features as needed. The attributes of smart snapshot picture will be shown accordingly.

Snapshot Attribute Display Setting		
Face	ilasses;Mask Status;Hat;Hairstyle;	•
Human	asses;Mask Status;Hat;Backpack;	•
Vehicle	color;Type;	•
Target Box Setting		
Show target tracking box		
Face	ilasses;Mask Status;Hat;Hairstyle;	•
Human	asses;Mask Status;Hat;Backpack;	•
Vehicle	color;Type;	•
	Арріу	

Face attributes/features:

Including gender, age, mask status, temperature, hat, hairstyle, beard, glasses, telephone, skin, a maximum of 6 features can be shown in the smart snapshot area.

Including gender, age, hat, glasses, mask status, glasses, backpack, shoulder bag, upper clothing color, lower clothing color, upper clothing type, lower clothing type, dress/skirt, a maximum of 6 features can be shown in the smart snapshot area.

Vehicle attributes/features:

Including color, type, one or two attributes can be displayed in the smart snapshot area.

Target tracking box:

If enabled, the target tracking box will be shown on the preview/playback window which is playing the video of the IPC enabled the video metadata function.

16.2 Server Configuration

16.2.1 System Settings

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

Sustem Name					
System Name	XXX				
Device Time Correction	Device Time	Correction 🕜	Synchronize Platform Time		
Service Fault Determination Time		mins			
Log Retention Time:		Day			
Enable License Plate Synchronization					
	${f \Lambda}$ If it is turned off, the system will not support the function of license plate synchronization				
	Apply	Reset			

System Name: Set the platform display name.

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

Service fault determination time: set the failure duration time. When the server failure exceeds this period of time, it will be determined as

"Offline". The spare server will take over.

Log Retention Time: set the log storage time.

Enable License Plate Synchronization: if enabled, you can use the relevant license plate synchronization functions. See the tips shown in the interface for details.

16.2.2 Alarm Settings

 $Click Home \rightarrow Configuration \rightarrow Server Configuration \rightarrow Alarm Setting to go to the following interface.$

1					
	Alarm Preview Using Third Stream				
	Hide Alarms Beyond the Alarm Linkage Schedule				
	Report interval for the same alarm				
	Standard NVR alarm receiving options(version 1.4.7 or above)	○ None	 Alarm messa 	age	Alarm message and snapshot (face capture/comparison snapshot)
		Apply	Reset		

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

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

Enable and set the same alarm reporting interval and its linked alarm type. After that, the alarm type will automatically report according to the set interval.

Standard NVR alarm receiving options: please select to receive alarm information or snapshot and alarm information of NVR as needed.
16.2.3 Audio Uploading Settings

Go to Home \rightarrow Configuration \rightarrow Server Configuration \rightarrow Audio Uploading Setting.

Click [Add] to bring the following box.

🗄 Add	🖲 Delete		
	Audio Name	Delete	
_			
	A	udio Uploading Setting	×
	Audio Name		
	Choose voice file	•	¢
		Audio sampling rate of 16000Hz, 16 bits per sampling, mono, size not more than 2M wav file.	
		OK	el

Click Click Click Click Click Click 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 \rightarrow Resource Management \rightarrow Intelligent Analysis Server interface. There is a default intelligent server and make sure it is online.

Add, Edit or Delete Device	Device Setting A	rea Setting	Channel Group Setting	Task					
≡									
Encoding Device (Online/Total number: 5/8)		Edit	Server Name		IP Address		Client Connection Status	Authentication Server Connection	Status
			Intelligent Analysis Serv	er	10.15.1.208	606	Online	Online	
Decoder (Online/Total number:	0/1)								
Intelligent Analysis Server (Onlin	ne/Total number:								

17.1 Create Intelligent Dashboard

Go to Home→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		Preview	
Video Windows			
Calendar		There is no content in the board, you can drag the <left component=""> to create board.</left>	
Face Comparison			
Face Comparison Statistics	Face Comparison Record	Pronerty Satting	
E-Map			
E-Map Monitoring	Heat Map		
Smart Snapshot		No Configuration	
		OK Cancel	

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

		Layout	×
Basic Module		Preview	
	Device Status	(\mathbf{x})	
Calendar		Video Windows Video Windows	
Face Comparison			
Face Comparison Statistics	Face Comparison Record	Descent of Athen (Miles 1986 down)	
E-Map		Property Setting(video windows)	
E-Map Monitoring	Heat Map		
Smart Snapshot		No Configuration	
		OK]

After the data dashboard is created, click it 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		Preview	
Video Windows	Device Status	Device Status	
Calendar		Video Windows	
Face Comparison			
Face Comparison Statistics	Face Comparison Record	Property Satting(Device Status)	
E-Map		Encoding Device Online Status Decoder Online Status	
E-Map Monitoring	Heat Map		
Smart Snapshot			
		OK	



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.



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.



17.4 E-map Display

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

		Layout	×
Face Comparison		Preview	
Face Comparison Statistics	Face Comparison Record		
E-Map		E-Map Monitoring	
	Heat Map		
Smart Snapshot		Duranti Cathler (T. Mar Marikadara)	
Smart Snapshot			
Traffic Flow Statistics			
Traffic Flow Statistics	Traffic Proportion of Each		
		OK	

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

Map Management • Search • Search • T	

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.



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.

				Sr	nart Snapshot	License Pla	te: // L33333	20-53-10
		Lavout		×		Licopro Pla	to: 111 33333	
Face Comparison		Preview			7777	Elcense Fla		(
Face Comparison Statistics	Face Comparison Record				IP頻道 04			: 20:53:10
E-Map		Smart Snapshot						(@)
E-Map Monitoring	Heat Map					[@] Headgear	Age [@] Glasses	Mask
Smart Snapshot		Property Cotting/Conart Spanol	(tot)		40.335555_IP通道 05			20:52:28
		Smart snapshot display	uo, nate detection			[@] Gender	[@] Age	[@] Mask
Traffic Flow Statistics		Human body detection	Motor vehicle detection	No		[@] Headgear	[@] Glasses	
Traffic Flow Statistics	Traffic Proportion of Each	Smart Snapshot Channel			40.335555_IP通道 06			
			OK	cel		License Pla	te: 魯QW957:	5

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.



18 Troubleshooting

1. How to modify the password by yourself?

Login monitor client and then go to the User Management interface. Select the user to modify the password. Then click [Save].

User/Role			
User/Role list			
⊕ Role	Enable		
Q Search	* User Name	Create a user 1	
主 🙎 Super Administrator			
忠 1	* Password strength	🔿 Weak 🔿 Middle 💿 Strong	
	* Password		
	* Confirm Password		
	Role		
	Schedule	7*24 💌	
	Bind MAC Address	00 : 00 : 00 : 00 : 00 : 00	
	Remark		
		Save	

- 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

Applications Pro	ocesses	Servi	ces	Performanc	e Networki	ng Users	
			_				
Name		PID	Des	cription	Status	Group	٠
AudioEndpoin	tBu	1100	Win	dows A	Running	LocalSy:	
ServerTrayMo	grApp	5056	Serv	/erTray	Running	N/A	
AlarmServerA	pp	2852	Alar	mServ	Running	N/A	
TVWallServer	Арр	3456	TVV	/allServ	Running	N/A	
StorageServerApp		2860	Stor	ageSer	Running	N/A	
MediaTransfe	rSe	1096	Med	iaTran	Running	N/A	-
ConfigServer	Арр	4316	Con	figServ	Running	N/A	-
AuthenticationSe		4592	Aut	nentica	Running	N/A	
wpscloudsvr			WP9	Office	Stopped	N/A	
ZhuDongFang	jYu	4796			Running	N/A	
WSearch		4540	Win	dows S	Running	N/A	
WMPNetwork	Svc	4688	Win	dows M	Running	N/A	
wmiApSrv			WM	I Perfo	Stopped	N/A	
wbengine			Bloc	k Level	Stopped	N/A	Ŧ
•						F.	
					Se	ervices	

- 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. The platform only can directly display on one or two monitors simultaneously. If you want to connect more monitors, it is recommended to use a decoder.