Viewtron NVMS Software User Manual

Network Video Management Software for Viewtron

DVRs, NVRs, and IP Cameras



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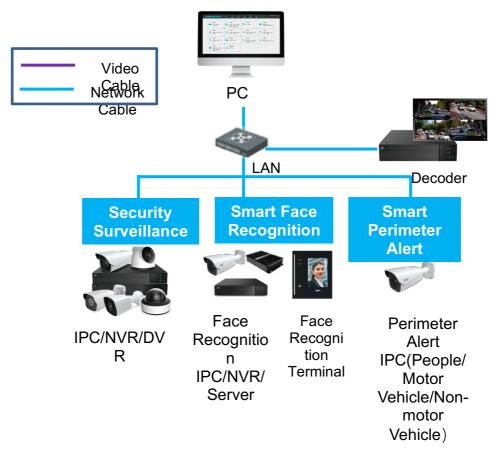
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1 Introduction

1.1 Introduction

1.1.1 Summary

Viewtron NVMS (Video Management System) is used to access and control Viewtron IP cameras, NVRs (network video recorders), and DVRs (digital video recorders). With the powerful capability of video surveillance management, real-time preview, record storage, record playback, record download, alarm linkage, decoding on TV Wall and keyboard control are supported. Due to its small, exquisite, flexible and diverse deployments, Viewtron NVMS can meet various demands of small-sized projects and can be widely used in the video surveillance of industrial park, education, banking, chain stores, buildings and transportation.

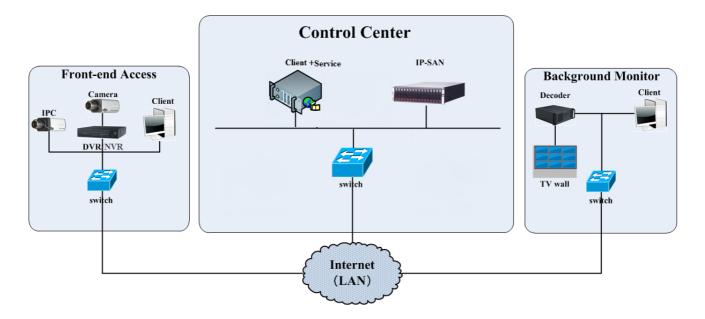


1.1.2 Software Architecture

Application Layer	C/S Client Mobile Phone Client
Business Layer	Decode to TV Wall Record Playback E-Map Alarm Voice Talk
Platform Layer	Service Client
Access Layer	IPC NVR TVI-DVR AHD-DVR Analog DVR

1.2 System Components

1.2.1 System



1.2.2 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.

1.2.3 Background Monitor

- Background monitors include TV Wall Client, Configuration Management Center and Monitor Client.
- You can set up the real-time image of display devices, these display devices including TV-Wall (decoding images to show on the TV-Wall through video decoder), digital display screen and so on.
- Run monitor client through local PC to view, playback and remotely configure and manage the real-time video of front-end monitor devices.

1.2.4 Control Center

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

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

1.3 Version

Version	Max signal access
Viewtron NVMS	256-ch video signals

2 Configuration Requirement

2.1 Software and Hardware Configuration Requirement

2.1.1 S&H Config Requirement for Control Center

No.	NVMS components	Recommendation for hardware configuration	Recommendation for software configuration	Number
1	Monitor Client	Inter(R) Core(TM) i5 7500 3.0GHz or above /4GB DDR3/NV GT430 or AMD HD6570 or above, 512MB GDDR5or above/500GB SATA/1000M NICs	Windows 7 SP1 32bit/64bit Professional/Ultimate Windows 8 32bit/64bit Professional Windows 10 32bit/64bit Professional	As needed

The recommended 64-bit hardware configurations are as follows.

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

2.2 Requirement for Firewall

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

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

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

2.3 Confirm Installation Environment

Item	Checkup Standard
Hardware	Check whether the hardware meets the standard required. (including CPU, memory, 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.

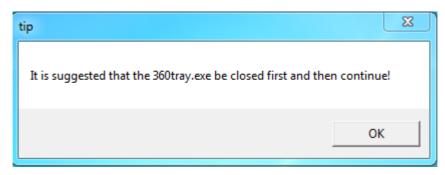
3 Install and Uninstall the Software

3.1 Install the software

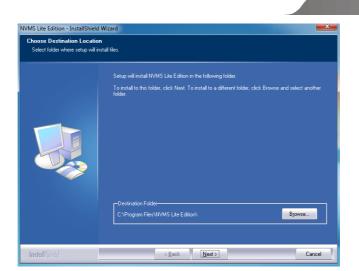
1) Double click "NVMS server.exe". Select the UI language as needed.



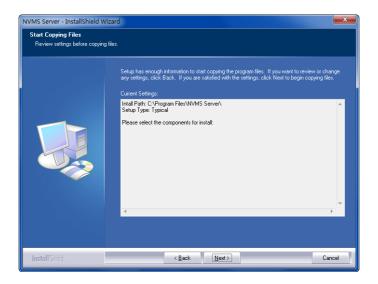
2) A tip will pop up to suggest you to close the antivirus software.



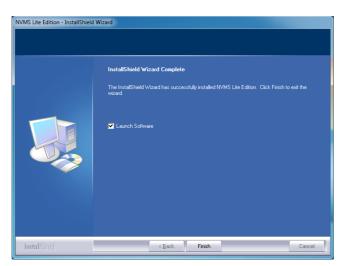
3) Click [Browse] to select the installation location and then click [Next].



4) Click [Next].



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

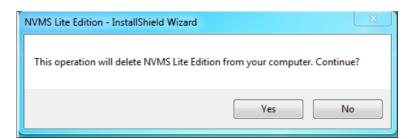


3.2 Uninstall Software

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

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

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



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

WMS Lite Edition - InstallShield		
	Uninstall Complete	
	InstallShield W/oard has finished uninstalling NVMS Lite Edition.	
InstallShield	< Back Finish Cance	el

4 Login

4.1 Run Servers

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

	Server	Status	Set	Port	Configure
Stop All	Management Server	Running	Stop	6003	Apply
	Configuration Server	Running	Stop	7002	Apply
Reboot All	Transfer Server	Running	Stop	6006	Configure
	Storage Server	Running	Stop	6009	Apply
	Alarm Server	Running	Stop	6033	Apply
10.20.52.7	TV Wall Server	Running	Stop	6036	Apply
	Intelligent Analysis Server	Running	Stop	6069	Apply
System Time					
Total running time:					
0(d)0(h)0(m)8(s)					

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

Please set up according to the actual network.

4.2 Login

Display Quit

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

Login	×
User Name admin	\checkmark
Password	
<table-cell> Remember Password 🛛 🖉 Auto I</table-cell>	ogin
Login Cancel	Reset password

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

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

	Reset super administrator password	×
Config Server	127.0.0.1 7002 Search	
Problem:		
Answer:		
Problem:		
Answer:		
Problem:		
Answer:		
	OK	

If this is the first time for you to log in, please enter the User Account Setting interface to set the encryption as needed.

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

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

4.3 Main Menu Interface Introduction

	A Kome Resource Mar	agement Live View1 Record Pla	y hyback 🕂	2					View System Help — 리
	3	Live View To view live images and to rec etč. Live View Alarm View	ıd talk,	8 ,	Record Playback	the local records or bac By Time Slice By Event cture Record Setting			
	J	Resource Management To add, modify or delete areas	, devices or serv	rers.	1-	Functional Select Set up commonly software easier to	used software function	ns to make	
Clear List 🔽 Device Alar	rm 🖉 Channel Alarm 🖉 Ser	isor Alarm 🖉 Offline Alarm 🖉 Serve	er Alarm						Unhandled Alarm Number:
Alarm Time	Alarm Resource	Alarm Type Record Pl Snapsh	not Delete	Handling					
2019-10-09 17:12:31	243CH	Channel	Ū	Unprocess		_			
2019-10-09 17:11:39	243CH	Channel-I	Ū	Unprocess		5			
2019-10-09 17:10:48	243CH	Channel-I	Ū	Unprocess					
2019-10-09 17:09:22	243CH	Channel		Unprocess					
2019-10-09 16:44:23	IP诵道	Channel	Authenticatio	Unprocess		Port:6003	User Name:admin		 2019-10-09 17:12:40 6

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

Menu Bar

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

Tab Bar

Menu	Description
View	"Live View", "Edit live view"
System	Including "Live View", "Record Playback", "E-Map", "TV Wall Management", Resource Management", "Account and Permission", "Alarm Center" "Operation and Maintenance Management", etc.
Help	Including "User Manual", "Register license" and "About NVMS"

Functional area

Menu	Description
Live View	To view live images and to record, snapshot and talk, etc.
Record Playback	To remotely play the local records or back up records.
E-Map	To manage and display maps, hot spots, etc.
TV Wall Management	To set TV wall and decoding videos on TV Walls
Resource Management	To add, modify or delete areas, devices or servers.
Face Surveillance	To recognize, compare or search face.

Line Crossing Counting	To monitor and analyze people/vehicle flow in real time
Account and Permission	To add, modify or delete user account and set permissions for these accounts.
Alarm Center	To set alarm linkage and schedule; To search alarm logs.
Operation and Maintenance Management	To search, export and maintain logs.
Local Configuration	To set record path, snapshot path, system startup and maintenance, overload and alarm view.
Functional Selection	To select common functions displayed on the home page.

Other buttons:

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

Functional Selection

In the main menu interface, click "Functional selection" to go to the following interface as shown below.

Function	onal Selection	×
Select All Reverse Clear All		
☑ Live View	🖉 Storage Playback	🖉 E-Map
🖉 TV Wall Management	Resource Management	Account and Permission
🖉 Alarm Center	Face Surveillance	Line Crossing Counting
Operation and Maintenance Management	Local Configuration	
ОК	Cance	

Please select the home page layout as needed.

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 Setting Area Setting Channel Group Setting													
Device Type	Add Delete Select Area			Selec	Select Transfer Server Select Storage Server Batch Upgrade for IPC Select SOP						Sear	zh	
Encoding Device (Online/Total numbe		Edit	Device Na		Tures	Channel	Alexand Ter	Alarma O	IP Address/IP Ran	Port	Select Area	Select Transf	Select Stora
Decoder (Online/Total number:0/0)		Ean	Device Mar	me Type	Channel	Aldrin III	Aldrift O	IF Address/IF Kall	POIL	Select Area	Select Hallsh	select storag	
Intelligent Analysis Server (Online/Tota			facial ipo	c	Standard Device	1	1	1	192.168.250.105	9008	default area	转发服务器	存储服务
Storage Server (Online/Total number:1	Π		Device Na	ime	Standard Device	5	13	9	10.20.52.135	6036	default area	转发服务器	存储服务
Media Transfer Server (Online/Total nu		Device Ival				-		-				10/2010/2010	15 1440.55
Alarm Server (Online/Total number:1/:													
TV Wall Server (Online/Total number:1													

Click [Add] as shown below.

			Add En	coding De	vice			×
Quickly	Add Manually Add	Initiatively Report				[Device Quanti	ty:47 Refresh
	Device Name	IP Address	ModifyIP	Port	Subnet Mask	Protocol	Version	Device ID
	Device Name	10.20.18.38		6036	255.255.0.0	Standard Device	1.4.4	00:18:AE:8D:8E:B9
	Device Name	10.20.15.192		6036	255.255.240.0	Standard Device	1.4.4	00:18:AE:62:E6:84
	IPCamera	10.20.18.230		80	0.0.0.0	ONVIF		
	IPCamera	10.20.18.231		80	0.0.0.0	ONVIF		
	IPCamera	10.20.18.225		80	0.0.0.0	ONVIF		
	name	10.20.17.27		9008	255.255.0.0	Standard Device	5.0.1.0	00:18:AE:56:12:58
	IPC	10.20.19.231		9008	255.255.0.0	Standard Device	5.1.0.0	00:18:AE:00:33:46
	IP Camera	10.20.19.169		9008	255.255.0.0	Standard Device	4.2.1.0	00:18:AE:00:35:4C
	Select Tran	sfer Server Transfer Serve			Select Storag		atically Link A	× vrea DK Cancel

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, PMS, 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

						Add Encoding I	Device				×
Quickly Add	Manua	ally Add	Init	iative	ly Repor	t					
IP Addre	ess/IP Rang	e/Domai	n Nam	e/URL		Protocol	Port	User Name	Password	Test	Delete
IP Address	~ 0	. 0		ο.	0	Standard Device	6036	admin	•••••		
	C -1	+ T	4	. г	Transfei	Server 14	Colort C				
	261	ect Trans					Select SI	orage Server	_	~	
		ŝ	Select A	rea	🛕 defai	ult area 🗸 🗸		Create Area	Automaticall	y Link Area	
								1	Default passwo	rd OK	Cancel

- ① Enter IP address/IP range/domain name, username and password and choose protocol type.
- ② Click [Test] to test whether the device is connected successfully or not.
- ③ Select transfer server, storage server and area and then click [OK].

Devices can be added in batch by adding IP range.

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

	Add Encoding I	Device				×
Quickly Add Manually Add Initiatively Report	-t					
IP Address/IP Range/Domain Name/URL	Protocol	Port	User Name	Password	Test	Delete
URL V	RTSP					
3						
<						>
Select Transfer Server Transfe	r Sever 🗸	Select St	orage Server	storage sever	\checkmark	
Select Area 🙆 defa				Automatically		
			<u> </u>			Canad
				Default passwo	rd OK	Cancel

How to get URL?

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

The default RTSP port is 554 and the URL format is "rtsp://IP or domain name:port/profile1". For example:

rtsp://192.168.1.1:554/profile1. Profile1stands for main stream; profile2 stands for sub stream; profile3 stands for the third stream.

The URL of the device of other companies, please get the URL from its web client or the third-party tools (like ODM).

5.1.3 Initiatively Report

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

П							
		Ado	d Encoding [Device			×
	Quickly Add Manually Add Initiatively Repor	t					
	Device Number	Protocol	User Name	Password	Delete		
	No.	Standard D…	admin	•••••			
	Select Transfer Server Transfer	Sever	\sim	Select St	orage Server	storage sever 🗸 🗸	
	Select Area 🛕 defau		~			Automatically Link Area	
						Default password OK	Cancel

- ① Enter the device ID set in the DVR/NVR or IP camera and choose the protocol.
- If the DVR/NVR is needed to add, please go to Network → Platform Access interface of the DVR/NVR. Check "Enable", enter the IP address and port (default 2009) of the NVMS and then set the device number of the DVR/NVR.
- If the IP camera is needed to add, please go to Network Configuration→Server Configuration of the IP camera. Check "Do you want IP camera to connect Server", enter the IP address and port (default 2009) of the NVMS and then set the device number of the IP camera.
- ② Select the transfer server, storage server, area and then click [OK].

5.2 Modify or Delete Device

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

	Edit	Device Name	Туре	Channel	Alarm In	Alarm Ou	IP Address/IP Rang.	. Port	Select Area	Select Tran	sfer Se	Select Storage Se
		IPC	Standard Device	1	1	1	192.168.250.105	9008	Default area	Transfer	Server	Storage Server
		A3H-2MP-20-210	Standard Device	1	2	2	192.168.250.210	9008	Default area	Transfer	Server	Storage Server
ddress/IP Rang	I Port	Select Area	Select Transfer Se	Select Stora	ge Se (Online St	Model	Version	HDD Status	Record St	Alarm Sta	Delete
92.168.250.105	9008	Default area	Transfer Server	Storage S	erver	Online	TD-9523A3-FR	5.0.0.0(1836)		•1	6	
92.168.250.210	9008	Default area	Transfer Server	Storage S	erver	Online	IPC	5.0.0.0(1499)		•1	6	

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

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

Click unto the device. Check the devices and click [Delete] to delete devices in bulk.

5.3 Device Upgrade

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

Add	Delete	elect Area Sele	ect Transfer Server	Select Storage	Server Batch Upgrade for IPC	Select SOP				Q
			Batch	Upgrade for IP(2	×	Port	Select Area	Select Transfe	Select Stora
No.	Device Name	IP Address	Model	Version	Upgrade results		9008	default area	Transfer Server	Storage Se
1	47.71	172.16.47.71	TD-9442E3	5.0.0.0(2373)			9008	default area	Transfer Server	Storage Se
2	IP-01	192.168.250.210	IPC	5.0.0.0(1859)			9008	default area	Transfer Server	Storage Se
							9008	default area	Transfer Server	Storage Se
							80	default area	Transfer Server	Storage Se
							6036	default area	Transfer Server	Storage Se
							tiatively Report	default area	Transfer Server	Storage Se
				Brov	Upgrade	Cancel	9008	default area	Transfer Server	Storage Se

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

5.4 Device Setting

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

Add, Edit or Delete Device	Device Setting	Area Setting C	hannel Group Settin	g]
Encoding Device ^	OSD Setting	Image Setting	Stream Setting	Motion Detection	Motion Alarm Linkage	Exception	Privacy Mask Setting	ROI Setting	Focusing Setting	Preset Setting	•
Search Q □ Default area □ ▲ A3H-2MP-20-210 □ ▲ A3H-2MP-20-210 □ ▲ A3H-2MP-20-210 □ ▲ IPC □ ▲ IPC	■ Show OSD										

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

5.5 Area Setting

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

	Create Area 🛛 🗙
Add, Edit or Delete Device Device Setting Area Setting Channel Group Setting	Parent Area 🛕 default area 🗸 🗸
Add Delete All Empty Area Area Name Channel Edit Delete	Area Name next
A default area 3 ✓	
△ 1 12 📝 🔟	OK Cancel

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

Click Click to modify area; click to delete area.

5.6 Channel Group Setting

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

Add Chan	nel Group ×
Channel Group Name Channel Group 1 Dwell Time 1 min Parent Channel Group	~
Selectable Channel	Selected Channel
Default area A3H-2MP-20-210 IPC	3
Search Q Select All Reverse Clea	<pre></pre>

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

Select the added channel group and click *into the modify the channel; click into the channel.*

5.7 Add Media Transfer Server

Media transfer server is in charge of the video signal reception of the front-end devices (like IPC) and transfers the signal to the client to view or to the storage server to record. The command of viewing the video of the front-end devices sent by the client or storage server is transferred by the media transfer server to the front-end devices.

Go to Home→Add, Edit or Delete Device→Media Transfer Server.

Add, Edit or Delete Device Devic	e Setting	Area Setting	Channel Gro	oup Setting							
Device Type	Add	Delete							Search		
Encoding Device (Online/Total numbe		Server Name	Device N	Channel	IP Address	Port	Client Co	Authentic	Edit	Delete	
Decoder (Online/Total number:0/0)		Server Marrie	Device N	channer	II Address	TOIL	chefft co	Authentic	Luit		
Intelligent Analysis Server (Online/Tota		Transfer Server	2	6	10.20.52.7	6006	Online	Online			
Storage Server (Online/Total number:									_	_	
Media Transfer Server (Online/Total n											
Alarm Server (Online/Total number:1/2											
TV Wall Server (Online/Total number:1											

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

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

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

		Ad	d Media Transfer Server		×
Quickly Ac	dd Manually Add			Server Quantity:3	Refresh
	IP Address	Port			
	172.16.47.128	6006			
	172.16.47.120	6006			
	192.168.1.22	6006			
				ОК	Cancel
to modify th	e media transfer server	; click 道	to delete the media transfer server.		

5.8 Add Storage Server

Storage server is in charge of the storage of record information, including the information of schedule record, record based on motion alarm, sensor alarm, smart detection alarm (like object removal detection, line crossing detection, etc.), responding to the search and playback of all storage data. It also supports self-defined storage path settings and IP-SAN access. Go to Home \rightarrow Add, Edit or Delete Device.

Add, Edit or Delete Device Device	e Setting	Area Setting	Channel Gro	oup Setting								
Device Type	Add	Delete							Search			
Encoding Device (Online/Total numbe Decoder (Online/Total number:0/0)		Server Name	Device N	Channel	IP Address	Port	Client Co	Authentic	Record P	Edit	Delete	
Intelligent Analysis Server (Online/Tota		Storage Server	2	6	10.20.52.7	6009	Online	Online	:=		Ī	
Storage Server (Online/Total number:1 Media Transfer Server (Online/Total nu												
Alarm Server (Online/Total number:1/: TV Wall Server (Online/Total number:1												

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

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

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

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

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

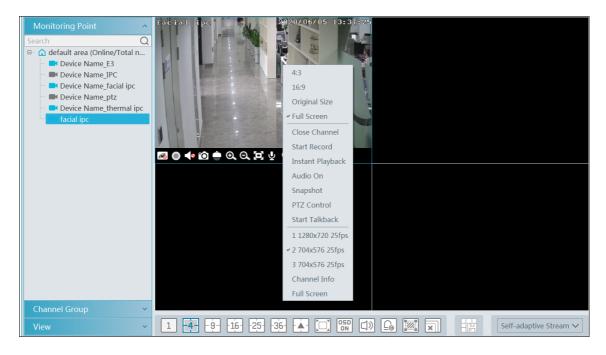
Device Type	Add	Delete							Search		
Encoding Device (Online/Total numbe		Server Name	Device N O	Channel I	P Address	Port	Client Co	Authentic	Record P	Edit	Delete
Decoder (Online/Total number:0/0) Intelligent Analysis Server (Online/Tota		Storage Server	2	6	10.20.52.7	6009	Online	Online	\bigcirc		Ū
Storage Server (Online/Total number:1									\sim		
Media Transfer Server (Online/Total n					Reco	rd Partitio	on Setting				×
Alarm Server (Online/Total number:1/1			Partition Symb	ol Partition	Romain Si						
TV Wall Server (Online/Total number:1			Tartaon Symb	or rarddorr.	. Remain St.						
			C(System Driver) 100GB	41GB						
			D	183GB	135GB						
			E	182GB	127GB						

Note: When the remaining space is less than 14GB, the system will prompt you for the insufficient space.

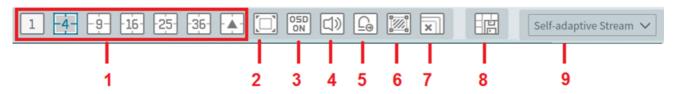
6 Live View

6.1 Live View

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



The descriptions of the live view buttons are as follows.



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

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

Toolbar on the display window:

Button	Description	Button	Description
R	Close image	Ø	3D zoom in
0	Start/stop recording	Ð	Zoom in
	Enable/disable audio	Ø	Zoom out
ĨO.	Snapshot	0	Fit to window

÷	PTZ control	Ā	Enable/disable talkback
۲	Monitoring point setting (camera setting)		

Right-click button function:

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

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

6.1.1 View Mode Setting

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

To customize the display mode

(1) Click \frown on the toolbar.

			Customize Screen Mod	e	×
	L 🛄 C1*	Create Save All	Delete Save Na	me C1 Row &Co	olumn 4±4 V Merge
Standard Screen Mode:					
16 17 21 25 33 36 49					
-6481- 100					
Wide Screen Mode:					
2 4 6 7 9 12 16					
24 36 48					
Custom Screen Mode:					
- Ø-					

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

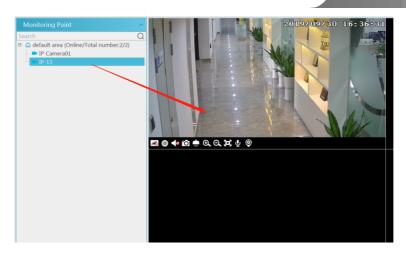
③ Click [Save] to save the settings.

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

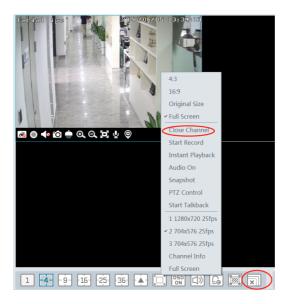
6.1.2 Monitoring Point View

• Start View

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



- Stop View
- 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.



6.1.3 Channel Group View

• Start Channel Group View

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



You can start the channel group view as follows.

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

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

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



6.1.4 Plan View

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

		Monitoring	Point 🗸 🗸	Monitoring Point	~
		Channel Gr	oup 🗸 🗸	Channel Group	~
		View	^	View	^
	View1*	Live View	/1	123456	
Monitoring Point 🗸 🗸	^		Create View	view1*	Create View
Channel Group 🗸 🗸 🗸			Modify View		Save View
View ^			Delete View		Modify View
Live View1*					Delete View

• Add View Plan :

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

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

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

6.2 View Control

• Multi-screen Display

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

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

• Full Screen Display

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

• Single Channel Display

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

Audio Broadcast

Click \square to bring audio broadcast box as shown below.

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

• Stream Setting

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

To set streams

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

Audio Control

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

• Zoom In or Out

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

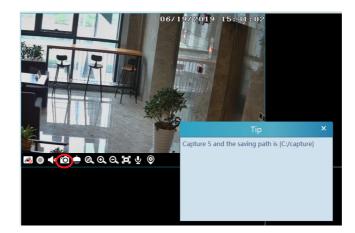


6.3 Snapshot

6.3.1 Snapshot

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

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

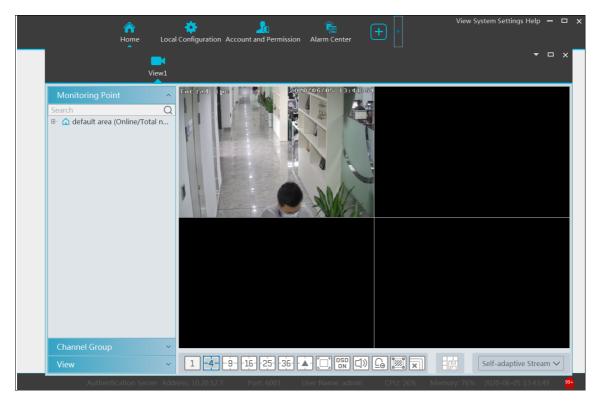


6.3.2 Snapshot Setting

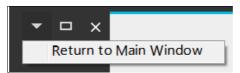
Go to Home→Local Configuration→Record and Snap Setting interface. In this interface, snapshot path and number can be set up.

6.4 Multi-Screen View

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



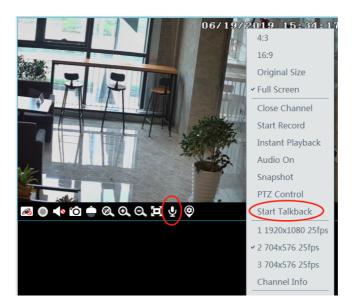
Click Click on the float window and select "Return to Main Window" to embed this tab in the main interface.



6.5 Talkback

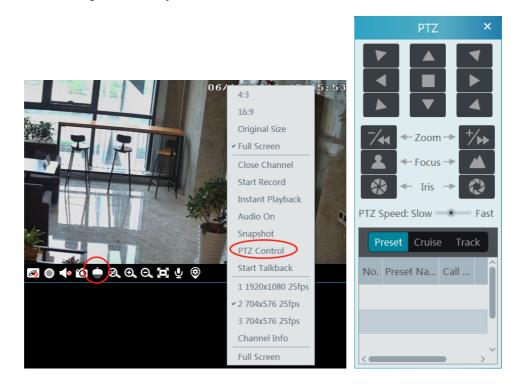
In a live view window, click 💟 on the toolbar of this window or select "Start Talkback" on the pop-up menu by right clicking to enable talkback.

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



6.6 PTZ Control

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



6.7 Audio Broadcast

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

	^	udio Broadc			×								
Device 🔷	Add remove choose Closing the window will stop the au												
□- □ default area		Device and	Device Type	Status	Delete								
Device Name		facial ipc	Standard Device	No Broad	Ū								
IP Channel 🗸 🗸	<		a		<u>></u>								
			Start Bro	badcast End	Broadcast								
] 36- 💽 🔲 🤇			Self-ad	laptive Stream									

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

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

Click it to delete the added device.

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

7 Record & Playback

7.1 Record Configuration

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

7.1.1 Manual Recording

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

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

7.1.2 Schedule Recording

Go to Home→"Record Setting".

Record Setting	Schedule Se	tting		
Area	^	Channel Name	Stream T	✓ Record ✓
Search	Q	2MP A3FR-107	Main Strea 💊	OFF
		A3H-2MP-20-210	Main Stream	OFF
		IPC	Sub Stream Third Stream	OFF
				<u> </u>

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

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

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

- 2 Click [Add].
- ③ Enter the schedule name.
- ④ Set the schedule. Click and then move the cursor to select the time; click and then move the cursor to delete the selected time. Click "Input Manually" to manually enter the time. Click "All" or "Reverse" to quickly select time. Click "Clear All" to clear all schedule.

											Ν	lodi	fy S	Sche	dule			×
Scheo	duleN	ame	1													1	0	Input Manually Select All Reverse Clear All
Sun,	04:3	0 9-1(, 5:15	 2 	1	4		 6 	1	8		10 	1	12 	1	 14 	1	16 18 20 22 24 Input Manually Select All Reverse Clear All
Mon,		0	1	 2 	1	4	I	 6 	1	8	1	 10 	1	 12 	1	 14 	1	16 18 20 22 24 Input Manually Select All Reverse Clear All
Tue,		0	1	 2 	1	4	I	- 6 -	1	8	1	10 	I	 12 	1	 14 	1	16 18 20 22 24 Input Manually Select All Reverse Clear All
Wed,		0	1	 2 	1	4	I	- 6 -	1	- 8 -	1	10 	1	 12 	1	 14 	1	16 18 20 22 24 Input Manually Select All Reverse Clear All
Thu,		0	1	 2 	1	4	I	 6 	1	8	1	10 	1	 12 	1	 14 		16 18 20 22 24 Input Manually Select All Reverse Clear All
Fri,		0	1	 2 	1	4	1	 6 	I	8	1	10 	1	 12 	1	 14 	1	16 18 20 22 24 Input Manually Select All Reverse Clear All
Sat,	04:0	0 	5:59	 2 	1	4	1	 6 	1	8		10 	1	 12 	1	 14 	1	16 18 20 22 24 Input Manually Select All Reverse Clear All
								OK										Cancel

7.1.3 Alarm Linkage Recording

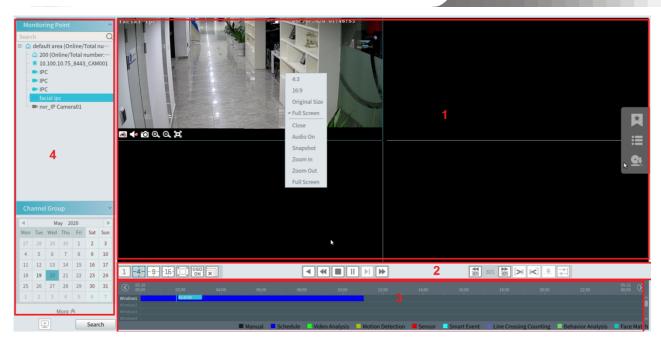
- (1) Go to Home \rightarrow Device Setting interface. Select the desired device to enable and set schedules.
- ② Go to Home→Alarm Center→Alarm Linkage as shown below. Select alarm type, enable record, set linakage channel and set schedules.
- ③ Click [Apply] to save the settings.

Alarm Log Alarm Linkage	Scl	hedule Setting Manual Alarr	n Ou	t SOP Settin	g								
Area	^	Alarm Type Channel-Motion D	etec	tion	✓ All	ON All OF	F Reset	Apply					Q
Search B default area	Q	Name		Audio 🗸	PTZ Control	🗸 Record 🗸	Alarm View 🗸	Snapshot 🗸	Alarm Output 🗸	Voice Broa… 🗸	TV Wall 🗸	Schedule 🗸	,
	_	10.100.10.75_8443_CAM001	\sim	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
		IPC	\sim	ON	ON	ON	ON	ON	ON	ON	ON	OFF	
		IPC	\sim	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	

7.2 Record Playback

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

There are two types of record playback: synchronous playback and asynchronous playback.



Area Description

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

Toolbar on Playback Window

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

Button Descriptions of Area 2:

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

	Play/Pause
	Next frame. In the playback mode, click the pause button and then click this button to play frame by frame.
•	Click it to select playback speed.
305 305	Forward 30s or backward 30s
>	Backup start time
*	Backup end time
	Start backup
	Synchronous playback or asynchronous playback

Right-click button menu

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

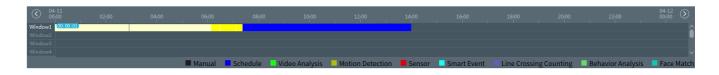
Other buttons

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

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

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

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

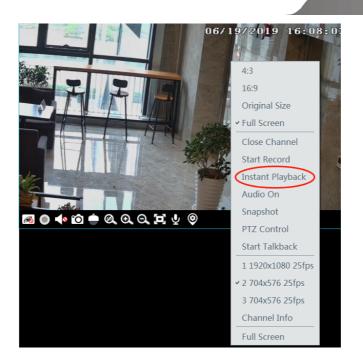


The time scale can be zoomed in by clicking (1) and the time scale can be zoomed out by clicking (2). The time scale can be restored to 24 hours by clicking (2). When the time scale is zoomed in, drag the timeline to see the time spots.

7.2.1 Instant Playback

Instant Playback

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



7.2.2 Synchronous Playback

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

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

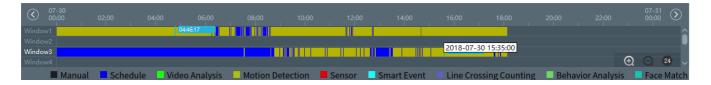
\langle	07-30 00:00						15:28:47 16:00				07-31
Window	/1										<u>^</u>
Window											
Window	/3						2018-07-30	15:27:30			
Window										Ð	Q 24 ~
	Manual	Schedule	📃 Video Analysi	s 📃 Motion Detect	ion 🛛 📕 Sensor	📃 Smart Event	📃 Line Cros	sing Counting	Behavior	Analysis	Face Match

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

7.2.3 Asynchronous Playback

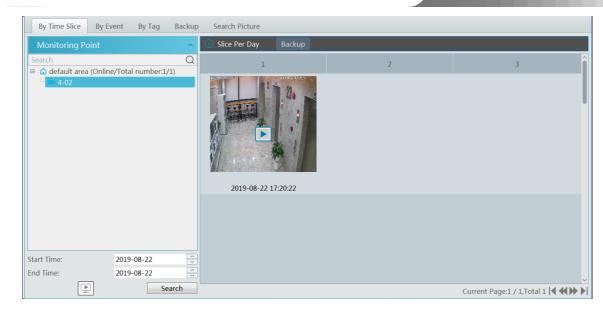
Asynchronous Playback: when playing some channels' record at the same time, each channel is independent from the others and each channel's playback time is different.

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

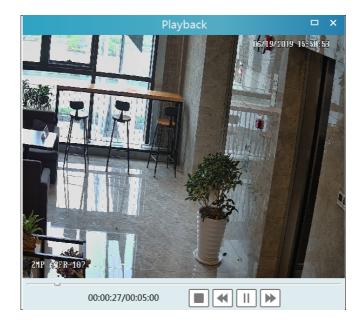


7.2.4 Playback by Time Slice

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



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



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

By Time Slice By Event By Tag Backup	Search Picture			
Monitoring Point	Slice Per Hour Backup			
Search Q	1	2	3	4
E ∩ default area (Online/Total number:1/1)	2019-08-22 17:20:22			
Start Time: 2019-08-22 End Time: 2019-08-22				
Search				Current Page:1 / 1,Total 1

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

By Time Slice By Event By Tag	Backup Search Picture				
Monitoring Point	∧ Slice Per 5 Min	Backup			
Search	Q 1	:	2	3	4
A default area (Online/Total number:1/1 4-02	2019-08-22 13	120.22			
Start Time: 2019-08-22 End Time: 2019-08-22					
▶ Sea	arch				Current Page:1 / 1,Total 1

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

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

7.2.5 Playback by Event

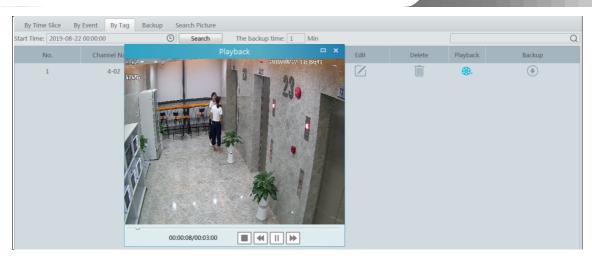
- (1) Go to Home \rightarrow By Event interface.
- ② Select the desired monitoring point, set the record source, the start time and the end time and then check events.

By Time Slice By Event By Ta Monitoring Point	g Backup Filter	Search Picture	Q Before t	he event 0 Sec			Tip1: Pr	ess [Ctrl] or [Shift] or [Mouse Button] to select multiple items
Search Q	No.	Name	Start Time	End Time	Duration	Туре	Playback	Backup
Contemporation Contemporatio Contemporation Contemporation Contemporation Contemporation Contem	1	facial ipc	2020-05-20 00:00:00	2020-05-20 11:11:04	11:11:4	Schedule	۲	۲
	Manual	 Video Analysis Motion Detection 	Sensor Line Cros	sing Counting 🏾 🖬 Face Ma Analysis	tch			Current Page:1/1,Total 1

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

7.2.6 Playback by Tag

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



7.3 Backup

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

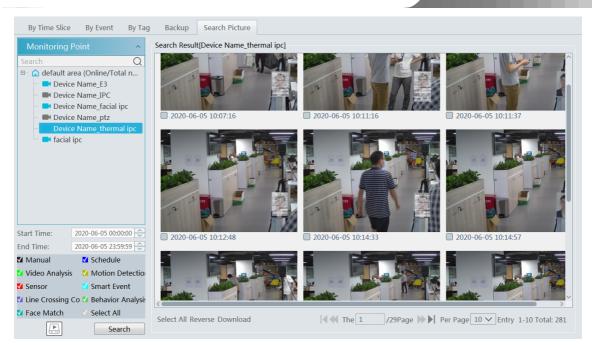
- ① Select the desired monitoring point.
- 2 Select date and click "More" to select the start and the end time and event type.
- Click Logical to get records from device or storage server.
- ④ Set the start time and the end time of backup. Then click [Backup].
- The backup progress will be seen during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

By Time Slice By Event By Tag Backup	Sear	ch Pictu	ire						
Monitoring Point 🔷	•		A	ug 201	.9		Þ	Ø8-22 17/23:00 Ø0:00 02:00 04:00 06:00 10:00 12:00 14:00 16:00 18:00 20:00	22:00 08-23
Search Q	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Churoall	
🗉 🍙 default area (Online/Total number:1/1)	29	30		1	2	3	4		
4-02	5	6	7	8	9	10	11		
	12	13	14	15	16	17	18		
	19	20	21		23	24	25		
	26	27	28	29	30	31			
			4	5	6		8		
			1	More ≈				Start Time 2019-08-22 17:23:00 🗘 End Time 2019-08-22 17:23:00 🗘 Backup Backup Path	Backup on device
	No.		Cha	annel			Start Ti	e End Time Duration Progress Operation	
) Search									▶ II ■ ÎII

"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.

7.4 Search Picture

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



- ① Select the device.
- ② Set the start time and the end time.
- 3 Choose events.
- (4) Select search from network device or storage server.
- (5) Click [Search]

8 Alarm Management

8.1 Alarm Server Configuration

Alarm server is in charge of receiving and recording alarm information of connected devices and then sending the alarm information to the relevant user terminal system or devices in accordance with prior alarm settings. There is a default alarm server. Go to Home \rightarrow Add, Edit or Delete Device \rightarrow Alarm Server interface to view the online status of the alarm server. If it is not online, please check its network connection.

Device Type	Server Name	IP Address	Port	Client Co	Authentic	Edit
Encoding Device (Online/Total numbe	Alarm Server	10.20.52.7	6033	Online	Online	
Decoder (Online/Total number:0/0)						
Intelligent Analysis Server (Online/Tota						
Storage Server (Online/Total number:1						
Media Transfer Server (Online/Total nu						
Alarm Server (Online/Total number:1/:						
TV Wall Server (Online/Total number:1						

8.2 Alarm Configuration

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

Add, Edit or Delete Device	Device Setting	Area Setting C	hannel Group Setti	ng					
Encoding Device	OSD Setting	Image Setting	Stream Setting	Motion Detection	Motion Alarm Linkage	Line Crossing	Intrusion	Object Removal	E∢►
Search Q ■ △ Default area ■ ■ △ Default area ■ ■ △ MP A3FR-107 ■ ■ △ AMP -20-210 ■ ■ △ IPC ■ ■ △ IPC ■ ■ △ IPC ■ ■ △ IPC ■	IPC		2019/06/19	6: 12: 02					
	🗹 Enable Line	Crossing							
	Alert Line 1	✓ Direction A->E	3 ∨ Alarm Hold	ing Time 3 🗸					
	Start Draw	Clear	Apply						

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

Alarm Log Alarm Linkage So	hedule Setting Manual Alarm	Out SOP Setting	g									
Area	Alarm Type Channel-Motion Detection V All ON All OFF Reset Apply								Filter			
Search Q	Name	Audio 🗸	PTZ Control 🗸	Record V	Alarm View 🗸	Snapshot 🗸	🗸 Alarm Output 🗸	Voice Broa… 🗸	TV Wall 🗸	🗸 Schedule 🗸		
■ default area □ 1 200	10.100.10.75_8443_CAM001	✓ OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF		
	IPC	∨ ON	ON	ON	ON	ON	ON	ON	ON	OFF		
	IPC	✓ OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF		
	IPC	✓ OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF		
	facial ipc	∨ ON	ON	ON	ON	ON	ON	ON	ON	OFF		
	nvr_IP Camera01	✓ OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF		

Select area, alarm type and then enable alarm linkages.

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

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

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

1(11)_IPC134424	14	\sim	ON	ON	ON	ON	ON	ON	ON	OFF
1(31)_name	ON	- 1	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF
1(48)_name	OFF		OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF

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

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

TV WallLinkage Setting	_		×
Selectable Channel		Selected Channel	TV Wa
🔺 🔲 default area		▲ 🔲 default area	
□ 172.16.47.109_3	<	□ 10.100.10.214_8	TV Wall 1
28138			
E3-47.71			
IP Camera01			
IP Camera12	>>		
IPC	«		
🗌 qiuji88			
< c > >		<	>
ON Q Select All Reverse	e Cle	ear All OK	Cancel

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

to select all channels, click to remove all selected channel.

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

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

Manual Alarm Out:

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

Alarm Log Alarm Linkage	Schedule Setting	Manual Alarm Out	SOP Setting
Alarm Output	^		
□-	Trigge	r Alarm Out	Close Alarm Out

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

8.3 Alarm View

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

		/10/2019 16:49:53						
Clear List Device		Alarm 😨 Offline Alarm 😨 Server Ala	rm				Unhandled Alarr	n Number:201
		Alarm 🖉 Offline Alarm 😨 Server Ala Alarm Type		Snapshot	Delete	Handling	Unhandled Alarr	n Number:201
Clear List <table-cell> Device</table-cell>	Alarm 🖉 Channel Alarm 🖉 Sensor .	1		Snapshot	Delete	Handling	Unhandled Alarr	n Number:201
Clear List) ☑ Device Alarm Time	Alarm 😨 Channel Alarm 😨 Sensor . Alarm Resource	Alarm Type		Snapshot			Unhandled Alarr	n Number:201
Clear List Ø Device Alarm Time 2019-06-19 16:49:43	Alarm @ Channel Alarm @ Sensor . Alarm Resource IPC	Alarm Type Channel-Face Detection	Record Pl		Ū	Unprocess	Unhandled Alarr	n Number:201
Clear List ☑ Device Alarm Time 2019-06-19 16:49:43 2019-06-19 16:48:08	Alarm @ Channel Alarm @ Sensor Alarm Resource IPC 2MP A3FR-107	Alarm Type Channel-Face Detection Channel-Motion Detection	Record Pl	~		Unprocess Unprocess	Unhandled Alarr	n Number:201

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

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

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

8.4 SOP Settings

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

- 1. Click "+" to add a SOP name. A maximum of 10 SOP can be added.
- 2. Click "Create" to create a SOP action. Each SOP can create 5 SOP actions.
- 3. Click $\stackrel{\text{geo}}{=}$ to extend the alarm list.
- 4. Click 🕼 to handle the alarm. Select the SOP action and then click "Save Process". After that, choose disposition and enter remark as needed.

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

Alarm Log Alarm	Linkage Scheo	dule Setting	Manual Alarr	m Out SC	P Setting											
-		Create	Delete		J. Setting											
SOP 1 🕂	2	\sim	_						А	larm Handl	e SOP	×				
SOP2			1	Edit CI SOP Action	Delete	×	Alarm Reso	ource: IPC	-20 11:19:15							
							Index		Operation A		Handle St…	Handle Time				
		SOP Actio	n Input less	s than or equa	al to 64 cha		1	1			0					
					OK Can	cel	2	2								
												Save process				
							Disposition		Alarm 🗸							
							Remark		s than or equal		ters					
											/					
												Save				
🖉 Device Alarm 🖉 Ch	annel Alarm 😒	Sensor Alarm	🖉 Offline Ala	irm <table-cell> Servi</table-cell>	er Alarm					/			1	Unhandled Ala	rm Number:10	> 000
Alarm Time	Alarm	Resource	Alarm	Type Storag	e Pl… Dev	ice Pl…	Storage S…	Device C	a… Alarm Pro	Handling …	· Disposition	Remark				Ô
2020-05-20 11:19:15		IPC	Chann	nel- ···					4 🕜							
2020-05-20 11:19:09	fac	cial ipc	Chann	nel												
2020-05-20 11:19:01	fac	cial ipc	Channe	el-F…										-		
2020-05-20 11:18:48	fac	cial ipc	Chann	nel											0	
2020-05-20 11:18:23		IPC	Chann	nel- ···											- 3	Š

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

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

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

Add, Edit or Delete Devic	ce Device	Setting	Area Setting	Chan	nel Group Setting							
Device Type	^	Add	Delete	Select Are	ea Select Transfer Server	Select Storage Serve	er Batch Upgrade for IPC	Batch Upgrade	or ANPR Can	nera S	elect SOP)
Encoding Device (Online/T Decoder (Online/Total nun			Edit 4	D		Select	SOP	×	g Por	se	elect Area	Se
LED Display Device (Online					Select SOP SOP1			~	603		efault area	
Intelligent Analysis Server Storage Server (Online/Tot					Selectable Device		Selected Device		603			
Media Transfer Server (Onl	line/Total nur				🔺 🔲 default area		🔺 🔲 default area		5 900	8 de	efault area	
Alarm Server (Online/Total TV Wall Server (Online/Total					0 10.100.10.75_8443	Þ			4 900	8 de	efault area	
in that better (online, too	at number 12/				Device Name	<	IPC		900	8 d€	efault area	
				10.1					844	3 de	efault area	
		\checkmark			🔲 facial ipc				900	8 de	efault area	
					🗆 nvr							
						» «						
\$												
Device Alarm 🗹 Char	nnel Alarm 🛛	Sensor A	larm 🗹 Offli	ne Alarm	Search Q Selec	t All Reverse Clear All	ок	Cancel				
Alarm Time	Ala	rm Resourc	e	Alarm Typ		-						

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

8.5 Alarm Log

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

Alarm Log	g Alarm Linkage So	chedule Setting Manual Alarm	Out SOP Setting		
Start Time	20-05-2020 00:00:00 🔶 En	d Time 20-05-2020 23:59:59 🔶	Search Export		
No.	Alarm Time	Alarm Resource	Alarm … 🗸 🛛 Details	Storage Pl··· Device Pl··· Storage S··· Device Ca··· Alarm Pro··· Handling ··· Disposition F	Remark
1	2020-05-20 11:49:10	IPC	Channel		
2	2020-05-20 11:49:08	facial ipc	Channel		
3	2020-05-20 11:48:51	facial ipc	Channel		
4	2020-05-20 11:48:15	facial ipc	Channel		
5	2020-05-20 11:48:06	IPC	Channel		
6	2020-05-20 11:48:04	facial ipc	Channel		
7	2020-05-20 11:47:44	IPC	Channel		
8	2020-05-20 11:47:35	facial ipc	Channel		
9	2020-05-20 11:47:15	facial ipc	Channel		
10	2020-05-20 11:46:54	IPC	Channel		
11	2020-05-20 11:46:53	facial ipc	Channel		
12	2020-05-20 11:46:32	facial ipc	Channel		

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

			Snapsł	not Search ×	<
Monito	ring Point	^	Search Result[2MP A3FR-107]		
	A3FR-107		2019-06-19 16:49:44		
Start Time	2019-06-19 16:4			· · · · · · · · · · · · · · · · · · ·	
End Time	2019-06-19 16:5	0:45	Select All Reverse Download	I The 1 /1Page ►► Per Page 10 ▼ Entry 1-1 Total Entries : 1	
	Search			,	

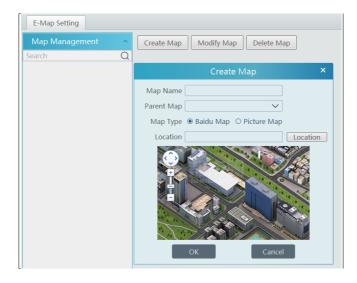
9 E-Map

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

9.1 E-Map Settings

9.1.1 Create E-Map

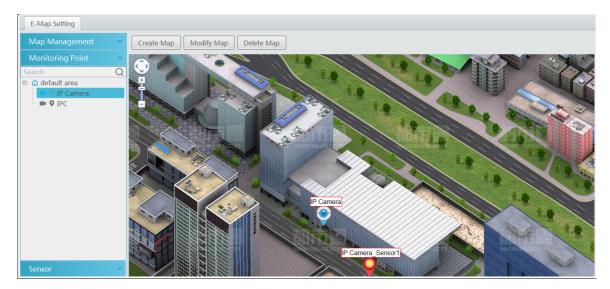
Go to Home→E-Map Setting interface. Click [Create Map] to create a map.



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

9.1.2 Add Hotspot

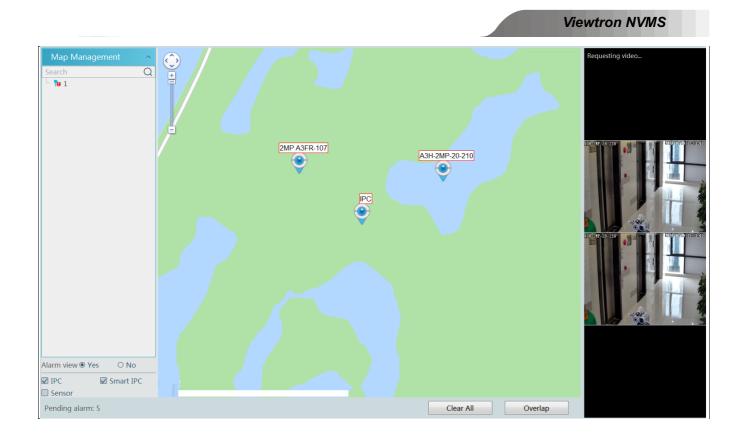
The hotspots include monitoring points and sensors. Drag a hotspot to the corresponding area on the map as shown below.



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

9.1.3 E-Map Monitoring

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



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

10 TV Wall

10.1 Add TV Wall Server

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

Add, Edit or Delete Device	Device	e Setting	Area Setting C	hannel Group Se	etting					
Device Type	^	Add	Delete							Search
Encoding Device (Online/Total I Decoder (Online/Total number:			Server Name	IP Address	Port	Client Co	Authentic	Edit	Delete	
Intelligent Analysis Server (Onlir	ne/Tota		TV Wall	10.20.52.7	6036	Online	Online			
Storage Server (Online/Total nu	mber:1							_	_	
Media Transfer Server (Online/1	rotal ու									
Alarm Server (Online/Total num	ber:1/1									
TV Wall Server (Online/Total nu	mber:1									

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

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

Transf.

10.2 Add Decoder

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

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

Add, Edit or Delete Device	Device	Setting	Area Setting	Channe	Group Settir	ng					
Device Type	^ (Add	Delete								Search
Encoding Device (Online/Total	numbe		Device N	Output	IP Address	Port	Opling St	Open in t	Edit	Delete	
Decoder (Online/Total number	:0/0)		Device N	Output	IF Address	FUIT	Online St	Open in t	Luit	Delete	
Intelligent Analysis Server (Onli	ne/Tota										
Storage Server (Online/Total nu	umber:1										
Media Transfer Server (Online/	Total nu										
Alarm Server (Online/Total nun	nber:1/1										
TV Wall Server (Online/Total nu	umber:1										

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

10.2.1 Create and Connect Decoder

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

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

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

After that, go to Home \rightarrow TV Wall Management \rightarrow TV Wall System Setting \rightarrow Decoder Bind Configuration. Then click \square to bind decoder and TV wall (See <u>Decoder Bind</u> for details).

10.3 TV Wall Management

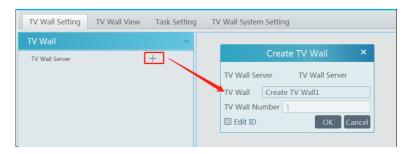
Go to Home \rightarrow TV Wall Management \rightarrow TV Wall Setting.

TV Wall Setting	TV Wall View	Task Setting	Tvwall System Setting	
TV Wall	^			
TVWall Server Unit	+			
Decoder Output	1 A			
			Authentication Server Address:172.16.49.17 Port:6003 User Name:admin CPU:3% Memory:64% 2018-07-31 09:40:17	23

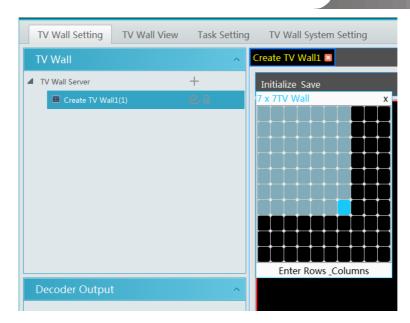
10.3.1 TV Wall Settings

♦ Create TV Wall

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



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

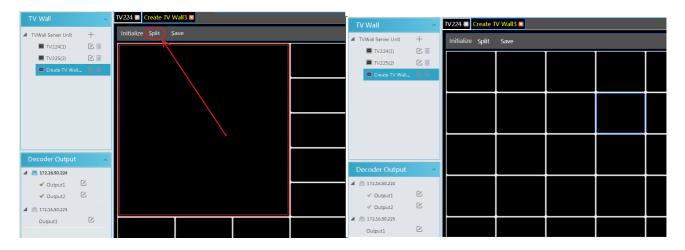


♦ Merging\Splitting

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

TV Wall	TV224 Create TV Wall3		
TVWall Server Unit +	Initialize Merge Save	TV Wall	A TV224 Create TV Walls C
■ TV224(1) 🕑 🗊		- TVWall Server Unit +	Initialize Merge Save
■ TV225(2) 🕑 🗑		ITV224(3)	
E Create TV Wall. 🛛 🕄		■ TV225(2) 🕑 🗐	
		🗰 Create TV Walt. 😢 🗄	
Decoder Output			
1 💼 172.16.50.224		Decoder Output	
✓ Output1		4 💼 172,1430,224	
✓ Output2		✓ Ourputi E ✓ Ourputi E	
m 1723650325			
Output1		▲ (1) 1224538225 Output1 区	
		oupin D	

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



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

TV Wall	+	V224 Create TV Wall3			
TV224(1)	C II	Initialize Save		 	
TV225(2)	Ci				
Create TV		Output1	Output2		
		172.16.50.225	172.16.50.225		
		Output3	Output4		
Decoder Outpu	t ^		172.16.50.225		
 ➡ 1721650.224 ✓ Output1 ✓ Output2 ➡ 17216.50.225 Output1 					
Output2 Output3 & Output4					

To modify TV wall:

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

	TV Wall		^	TV Wall 1
4	TV Wall Server		+	Initialize
	IV Wall 1	1)	l ii	
	🔳 TV Wall 2(2)		
	🔳 TV Wall 3(3)		
		Ec	dit TV Wall	×
		TV Wall Server	TV Wall S	erver
		TV Wall TV V	Vall 1	
		TV Wall Number	1	
		🗌 Edit ID	OF	Cancel

To delete TV wall :

Click behind the TV wall name.



Decoder Bind

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

Decoder bind configuration: modify the binding state between decoder and TV wall.

Viewtron NVMS

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

Click to change bound TV Wall.

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

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

TV Wall Setting TV Wall View Task Setting TV Wall System Setting				
TV Wall	^	TV Wall 1 🛛 TV Wall 2 🛛		
TV Wall Server	+	Initialize Save		
IV Wall 1(1)				
IV Wall 2(2)				
🔳 TV Wall 3(3)				
		popopopopopopopopopopoloki		
		Decoder1		
Decoder Output	^	Output2		
🗂 Decoder1				
роророророророророр	opoloki 🗹			
	C	Decoder1		
 ✓ Output2 				
✓ Output2		Decoder1		

10.3.2 TV Wall View

• Create Plan

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

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

Create Plan ×				
Plan Name	1_Plan_1			
Plan No. 1				
🗌 Edit ID	ОК	Cancel		

♦ Configure Plan

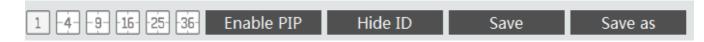
Double click the plan name to show the plan.

TV Wall Setting TV	Wall View	Task Setting	Tvwall Syst	tem Se	tting
Monitoring Poir	review				
Decorder Input	~				
TV Wall Plan	^				
💼 Create TV Wall1 🕂		Creat	e Plan	×	
		Plan Name 1_Pl	an_1		
		Plan No. 1			
		🔲 Edit ID	OK Ca	incel	

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



Toolbar Menu

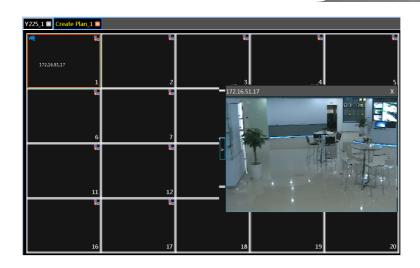


- 1. Screen mode : $1 \leq 25 \leq 6$ screen mode is optional.
- 2. Open Window : Click [Enable PIP] and then drag on a window to open a small window on it. Click [Disable PIP] to stop opening window. The small window can be dragged to anywhere on the big window.

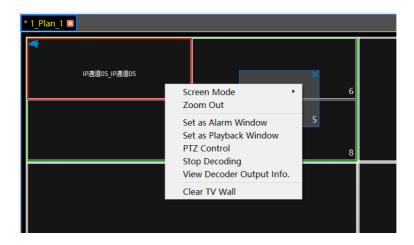
* 1_Plan_1 🛛				
			20	
	×			
	7			
			1	
			*	
			4	
				Auto
		111-1-10	C	
1 -4 -9 -16 -25 -36	Disable PIP	Hide ID	Save	Save as

- 3. Click [Hide ID] to hide the window number; click [Display ID] to display the window number.
- 4. Click [Save] to save the current plan.
- 5. Click [Save as] to save it as another plan.

Double click a window to play the video.



Right-click Menu



- 1. Screen mode: $1 \leq 1 \leq 2 \leq 36$ screen mode is optional.
- 2. Zoom in/out : if the current screen mode is multi-screen display mode, click "Zoom In" to zoom in the current image. Click "Zoom Out" menu again to restore to the previous status.
- 3. Save as Alarm Window: click it to save the current window as an alarm window. The alarm linkage image will be displayed in this window. Go to Home→ Alarm Center→Alarm Linkage (or Home→Alarm System→Alarm Linkage) interface. Select TV wall linkage item to set alarm linkage.

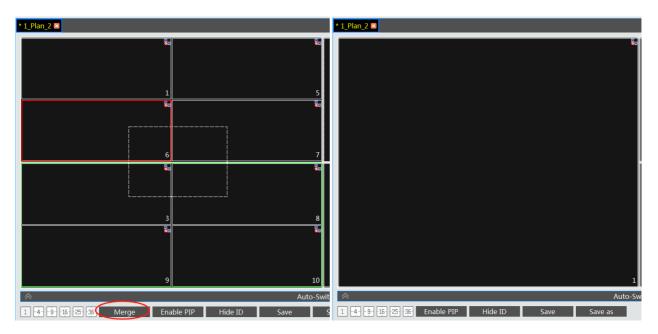
		View	✓ Snapshot	→ Alarm	Output N	🗸 Voice Broa	TV Wall
		TV V	/allLinkage Setti	ing			×
		S	electable Chanr	nel		Selected Channe	I TV Wa
		4) default area			default area	
			🗆 E3-741111			🗌 243CH	Create T\
			🔲 IP Camera				
			🗌 qiuji88				
					>>		
	Alarm Center				~		
Ě	Alarm Log Alarm Linkage Schedule Setting Manual Alarm Out SOP Setting		N Q Se	lect All Rev	erse Clea		Cancel

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

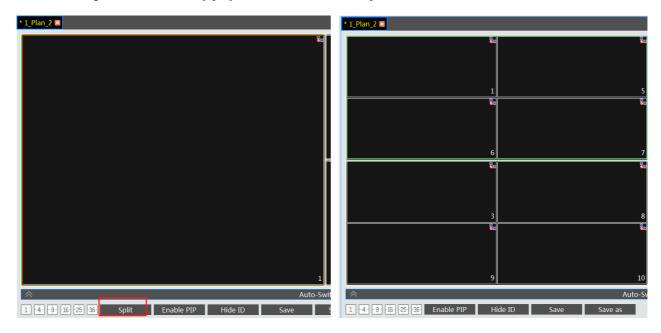
is the current record source).

- 5. PTZ Control: click this menu to prompt a PTZ control panel of the current decoding window. Direction control, zooming and focusing, Iris control, speed, preset, track and cruise calling can be operated through this control panel.
- 6. Stop Decoding: click it to stop decoding the current image.
- 7. View Decoder: view the information of the decoder.
- 8. Clear TV Wall: click it to clear the decoding configuration of the current output.
- Screen Merging or Splitting

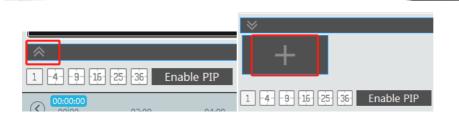
Drag the mouse to select multi-window and then click [Merge] to merge these windows.



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



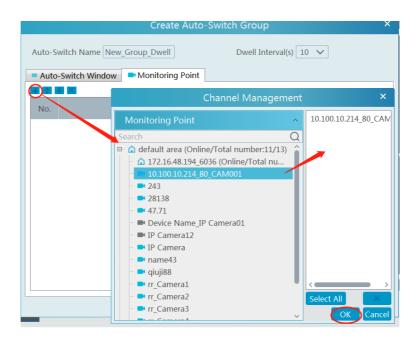
- ♦ Auto-Switch Group
- 1. Create Auto-Switch Group
 - ① Click Auto-Switch Group under the screen and then click to create auto-switch group.



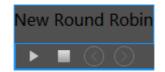
② Select "Auto-Switch Window" to select the window group.

Create Auto	-Switch Group X
Auto-Switch Name New_Group_Dwell	Dwell Interval(s) 10 V
Auto-Switch Window Monitoring Point	
1	5
3	8
9 1	4
	OKCance

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



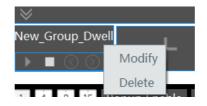
- (4) Enter auto-switch name and dwell time.
- 2. Execute auto-switch



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

3. Modify or delete auto-switch

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



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

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

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

Channel Group	~				
Decoder Input	~		Auto-Switch Set	ting	×
TV Wall Plan	^	No.	Plan Name	Move Up	Operation
🔺 📠 TV Wall 1 (1)	+)	1	1_Pan_3 (3)	+	Join in
1_Pan_3(3)	C I	3	1_Plan_1 (1)	+	Join in
1_Plan_1(1)	C 🗊	2	1_Plan_2 (2)	+	Join in
1_Plan_2(2)	C ii				
🚍 TV Wall 2 (2)	$+ \bullet \bullet$				
🚍 TV Wall 3 (3)	$+ \rightarrow \diamond$				
				G	
From	2019-10-08 00:00:00 😌	Dwell Interval(s	10 🗸		Save Cancel

2. Start/stop auto-switch



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

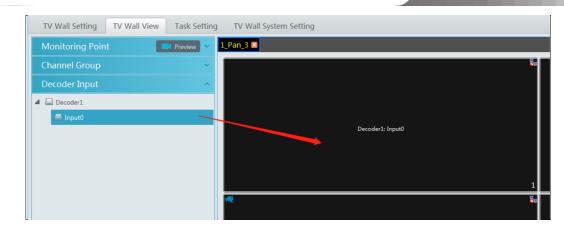
3. Modify auto-switch plan

Click 😨 again to modify the auto-switch plan.

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

10.3.3 Decoder Input

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



10.3.4 Playback

• Playback on TV Wall

Click "Preview" on the left panel. Then this button becomes "Playback". Click in the click "OK" to search records, or drag the cameras (or channels) to a window to search and play the records.

TV Wall Setting TV Wall View Task Set	ing TV Wall System Setting
Monitoring Point 🛞. Playback 🔨	*1_plan_1 >>
Search Q B Critical default area (Online/Total number:5/6) Critical number:5/6) Critical default area (Online/Total number:0/0) 10.100.10.75_8443_CAM001 Image: Inclusion of the image	E2 %e %e %e %e %e
■ nvr_IP Camera01	6 7 2 5 5 5
Channel Group ~ Decoder Input ~	
TV Wall Plan	8 %
From 20-05-2020 00:00:00 ↓ To 20-05-2020 23:59:59 ↓ ゴ Manual ゴ Schedule ゴ Video Analysis ゴ Motion Detection	9 10 4
Sensor Smart Event	Auto-Switch Group Auto-Switch Group Auto-Switch Group 1 4 3 15 25 36 Enable PIP Hide ID Save as Pause Stop Next Frame Previous 30s Next 30s
Gace Match Select All	International Interna

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

Playing control



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

♦ Right-click menu

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

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

The following picture is an example of TV Wall.



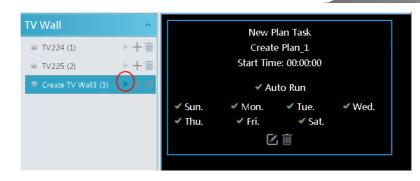
10.3.5 Task Setting of TV Wall

Go to Home \rightarrow TV Wall Management \rightarrow Task Setting. Click + behind the TV wall name. Select plan name, enter task name, set run time and enable plan task.

TV Wall	~		Croo	te Task	×
TV224 (1)	▶ +		Crea		
TV225 (2)	▶ + ₪	Plan Name	Create Plan_1	\sim	
Create TV Wall3 (3)		Task Name	New Plan Task		
		🔲 Run Plan	Task	Run Tim	e 00:00:00 🔶
		 Everyda 	у	© Every Wee	ж
		🗆 Sun.	🗆 Mon.	Tue.	UWed.
		🗆 Thu.	🗆 Fri.	🗆 Sat.	
		2			OK Cancel



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



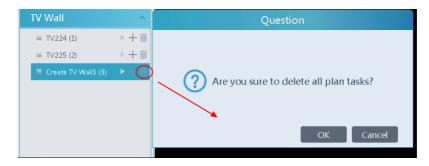
Modify or delete task

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

	Creat	Plan Task e Plan_1 ne: 00:00:00	
	🗸 Aı	uto Run	
🖌 Sun.	✓ Mon.	🗸 Tue.	🗸 Wed.
🖌 Thu.	🖌 Fri.	🗹 Sat.	
		L III	

Click or to modify or delete the task.

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



10.3.6 TV Wall System Configuration

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

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

TV Wall Setting TV Wall Vie	w Task	Setting TV Wall System Setting			
Channel Number Setting De	ecoder Bind	l Configuration			
Monitoring Point	No.	Name	Channel Number		Conflicts Between Channels' Number
Search Q	2	default area>A3H-2MP-20-210 default area>2MP A3FR-107	1		A3H-2MP-20-210
A3H-2MP-20-210					2MP A3FR-107
	Minimum	Conflict-Free Channel Number: 2	Export Channel Number S	ave Cancel	

11 Account and Permission

11.1 Create Account

Go to Home→Account and Permission.

User /	Account Setting	User Per	rmission Group Setting					
Add	Delete	Edit encrypti	on			Sear	ch	Q
	Account	Enabled	Select Permission Group	MAC Address	Bind MA	Edit	Delete	
	admin	ON	Super Administrator	00:00:00:00:00:00	OFF		Ī	
	1	ON	1	00:00:00:00:00:00	OFF			

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

	Edit encryption ×
User Account Setting User Permission Group Setting Add Delete Edit encryption Account Enablet Select Permission Group MAC Address Bind M Ø admin ON Super Administrator 00:00:00:00:00 OFF Edit encryption X 00:00:00:00 OFF User Name admin Password Password	Edit encryption × Problem: ~ Answer: ~ Problem: ~ Answer: ~ Problem: ~ Answer: ~ Answer: ~
OK Cancel	OK

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

Ad	d User 🛛 🗙
Enable 🖌	
User Name* 1	
Old Password* Enter F	assword
Password* 123456	
Confirm Password* 123456	
Display Password 🖌	
Permission Group*	\checkmark
Bind MAC Address	: : : :
Remark	
ОК	Cancel

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

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

11.2 User Permission Settings

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

① Click [Add] to create permission group.

	Add Permission Group	×
Permission Group Name		
System Permission Operation Perm	nission Area Permission TV Wall Perr	nission
Select All Reverse Clear All		
Resource Management	Server Management	Record Setting
Alarm Management	Account and Permission	E-Map
TV Wall Management	Local Configuration	Line Crossing Counting
E Face Surveillance		
o	ĸ	Cancel

② Enter permission group name.

③ Select system permission, operation permission, area permission and TV wall permission as needed.

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

12 Operation and Maintenance Management

12.1 Check and Export Log

Go to Home→Operation and Maintenance Management.

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

Check and	d Export Log Backu	p and Restore Configuration	Online Status Status Log					
All Types	Alarm Log	Operation Log Config	Log Exception Log					
Start Time 2	2019-06-19 00:00:00 🔶	End Time 2019-06-19 23:59:59	Search Export					
No.	Main Type	Record Time	Node Name	Sub Type 🗸 🗸	User Name	User Address	Details	Record P
1	Alarm Log	2019-06-19 17:28:25	IPC	Channel-Face Det	None	None		
2	Alarm Log	2019-06-19 17:28:07	IPC	Channel-Face Det	None	None		
3	Alarm Log	2019-06-19 17:27:41	IPC	Channel-Face Det	None	None		
4	Alarm Log	2019-06-19 17:27:12	IPC	Channel-Face Det	None	None		
5	Alarm Log	2019-06-19 17:26:33	IPC	Channel-Face Det	None	None		
6	Alarm Log	2019-06-19 17:26:22	A3H-2MP-20-210	Channel Offline	None	None		
7	Alarm Log	2019-06-19 17:26:22	A3H-2MP-20-210	Encoder-Offline A	None	None		
8	Alarm Log	2019-06-19 17:26:12	2MP A3FR-107	Channel-Motion	None	None		
9	Alarm Log	2019-06-19 17:26:12	2MP A3FR-107	Channel-Face Det	None	None		
10	Alarm Log	2019-06-19 17:25:12	IPC	Channel-Face Det	None	None		
11	Alarm Log	2019-06-19 17:24:41	IPC	Channel-Face Det	None	None		
12	Alarm Log	2019-06-19 17:24:25	IPC	Channel-Face Det	None	None		
13	Alarm Log	2019-06-19 17:23:29	2MP A3FR-107	Channel-Motion	None	None		
14	Alarm Log	2019-06-19 17:23:29	2MP A3FR-107	Channel-Face Det	None	None		
<	A1	2010 06 10 17:22.54	TDC	channel Franket	A1	A1		> ×
				4 < The	e 1 /22Pag	e 🍽 🏹 Per Page 50	✓ Entry 1-50 Tota	l Entries : 1089

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.

12.2 Backup and Restore Configuration

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

Check and Export Log Backup and Restore Configuration Online Status Status Log
Backup System Configuration Restore System Configuration
Note: The process of restoring system configuration takes about a few minutes. After restoring, the management server will restart automatically. Do not shut down the management server while restoring.

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

12.3 Viewing Online Status

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

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

Check and Export Log Encoding Device Online Status 100% Online: 4	Backu	up and Restore Configu Decoder Online Status 100% Online: 0	Server Online Status Status 100% Online: 4 Offline: 0		Log Record Stat the Storage 0% Video recor	e Server ding: 0	Record Status of Encoding Devices 100% Video recording: 0			
Offline: 0 Area Default area	^	Offline: 0 Device Name	Туре		_		No video: 0	Port	Online St	Alarm Sta
Default area		IPC A3H-2MP-20-210	Standard Device Standard Device	1	1	1	192.168.250.105 192.168.250.210	9008 9008	Online Online	<u>0</u> 0
		2MP A3FR-107	Standard Device	1	1	1	192.168.250.107	9008	Online	0
		IPC	Standard Device	1	1	1	10.20.19.128	9008	Online	<u>6</u>

12.4 Viewing Status Log

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

Check an	d Export Log Backup	and Restore	Configuration (Online Status	Status Log					
Start Time	2019-06-19 00:00:00 🔶 E	nd Time 201	9-06-19 23:59:59 😌	Search						
No.	Туре 🗸	' Record Ti	Node Na Det	ails						î
1	Monitor Client online	2019-06	A3H-2MP							
2	Encoding device online	2019-06	A3H-2MP							
3	Monitor Clinet offline	2019-06	A3H-2MP							
4	Encoding device offline	2019-06	A3H-2MP							
5	No recording	2019-06	2MP A3F							
6	No recording	2019-06	2MP A3F							
7	Recording	2019-06	2MP A3F							
8	No recording	2019-06	2MP A3F							
9	No recording	2019-06	2MP A3F							
10	Recording	2019-06	2MP A3F							
11	Monitor Client online	2019-06	IPC							
12	Encoding device online	2019-06	IPC							
13	Monitor Client online	2019-06	2MP A3F							
14	Encoding device online	2019-06	2MP A3F							
15	Monitor Client online	2019-06	A3H-2MP							
16	Encoding device online	2019-06	A3H-2MP							~
						∢ ◀ The 1	/2Page ₩►	Per Page 50 🗸 En	try 1-50 Total Entries	: 59

In this interface, record status, online or offline status of servers and monitor client can be viewed. Set the start time and the end time and then click [Search] to search status logs.

13 Local Configuration

13.1 Record and Snapshot Setting

Go to Home→Local Configuration.

Court Decending Files To	Channel		Orennes
Save Recording Files To	C:/record		Browse
Save Backup Files To	C:/backup		Browse
Backup File Format	AVI		
Save Snapshots To	C:/capture		Browse
Snapshot Number	5 ~		
May File Size for Manua	I Recording and Record Backup	● 512MB ○ 1GB	O 2GB

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

13.2 Local Settings

Go to Home→Local Configuration→Local Setting.

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

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

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

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

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

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

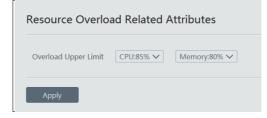
Full name display for DVR/NVR's channels: if enabled, the DVR/NVR's channel name listed in the resource tree will show the DVR/NVR name and the channel name. If disabled, only the channel name is shown.

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

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

13.3 Overload Settings

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



13.4 Alarm View Settings

Go to Home→Local Configuration→Alarm View Setting.

Alarm View Setting		
Automatic Pop-up Alarm Page Full screen display when popping up Close Alarm page Automatically shut down Time Ssecond Number of Screens	Full Screen Display DISPLAY1	~
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).

13.5 OSD Position Configuration

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

OSD Position Config	
Drag slider	
Apply	

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

13.6 System Configuration

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

System Settings	
Alarm preview using third stream Do not display the alarm without schedule	
Same alarm reporting interval: I Hour Select associated alarm type	
Synchronize Platform Time Synchronize Devices 🖉 Synchronize Time Zone	(Automatic synchronization of platform time to equipment every 2 hours)

In this interface, you can enable "Alarm preview using third stream" or "Do not display the alarm without schedule". Enable and set the same alarm reporting interval and its linked alarm type.

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

13.7 Audio Uploading

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

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

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

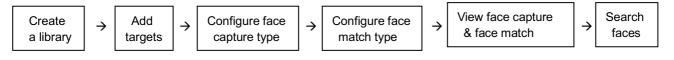
14 Intelligent Management

Before using intelligent functions, please confirm the intelligent analysis server has been already created and it is online. Go to Home \rightarrow Resource Management \rightarrow Intelligent Analysis Server. There is a default intelligent analysis server. Please make sure the server is online.

Add, Edit or Delete Device	Device	e Setting Area Set	tting Channe	el Group Sett	ting		
Device Type	^	Server Name	IP Address	Port	Client Co	Authentic	Edit
Encoding Device (Online/Total	numbe	Intellient Server	10.20.52.7	6069	Online	Online	
Decoder (Online/Total number	r:0/0)						
Intelligent Analysis Server (Onl	ine/Tota						
Storage Server (Online/Total n	umber:1						
Media Transfer Server (Online/	/Total nu						
Alarm Server (Online/Total nur	mber:1/1						
TV Wall Server (Online/Total n	umber:1						

14.1 Face Surveillance

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



14.1.1 Object Library

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

• Create Object Library

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

Real-time View Search by Face	Search Object Library Management Configuration		
Intelligent Analysis Server	Delete Add Target Add Multiple Targets Import From Folder Clear All Targets Custom Export Select current Page Reverse select current page Import From Folder Export Select current Page	Search Q	
A yt(Success)			

Add Object Library ×	Add Object Library				
Lib Name	Lib Name test				
Protocol Type Face Recognition NVR	Protocol Type Face Recognition IPC				
Face Recognitio Face Recognition IPC	Face Recognition IPC				
FR Terminal Selectabl FR Box	Selectable Device Selected Device				
Third-Party FR Terminal	▲ □ default area				
	IPC Ipc facial ipc				
× > < >	□ IPC	>			
□ BlackList ☑ WhiteList OK Cancel	BlackList Synchoronous NVF OK Cancel	≀ Album			

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

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

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

🗉 📸 Intelligent Analysis Server	
A 2(Success) A 2(Success) A 2(Success) Copy to Delete Forcedly Delete	

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

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

Click "Delete" to delete the current library.

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

• Add Targets

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

							Import Tar	get		×
Delete	Add Target	Add Multiple Targets	Import From	Folder	^	Search Result				
Reverse sele	ct current pag	ge 📃			Name					
		Add Target			 Face picture Face picture 					
		Add Target			 Image record 					
					System Volume Information					
	Name:		Birth Date:	19-05-2	 mit yi mit z 					
	Name.		birtir Date.	19-05-2						
(+)	Gender:	Male 🗸	Country:				h.		Contraction of the second s	
Add	Province:		City:				D 2.jpg		LT.jpg	
	ID Type:	ID Card 🗸					□ 2.jpg		i Lijpg	
	ID NO.:									
	Remark:									
						Import		∢ ≪ The 1	/1Page ▶ ▶ Per Page 10 ✓ Entry	1-2 Total: 2
					OK Cancel	\smile				

Adding multiple targets:

Delete Add Target	Add Multiple Ta	argets Imp	ort From Folder	Clear All Targets	Custom	Export
Open	Pictures			✓ 4 Search Pictures	<u>ج</u>	Object ID
组织 ▼ 新建文件夹						1
	Helen	Hu	Hua Lili	Siyi	xiao	2
	File name:			Image Files(*,jpg * Open	.png *.gif) ▼ Cancel	

Import from folder:

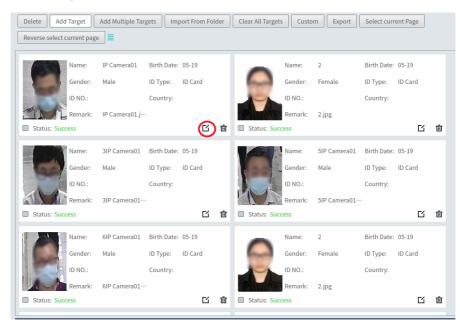
Folder & Subfolders: After clicking [Import from Folder] and choosing "Folder & Subfolders", choose a folder including multiple subfolders and then all pictures in the folder and its subfolders will be imported.

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

Modify or delete targets:

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

Click [Custom] to customize the target information.





to view the list of the target.

14.1.2 Task Management

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

① Select the schedule and face capture type.

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

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

Real-time View Search by Face	Search Object Library	/ Managemer	t Config	uration					
Task Face Detection Algorithm Se	tting Black and white	list popBox se	etting Fa	ce access permiss	sion setting				
Task Schedule Setting									
Monitoring Point ^	Apply					Add	Delete	Search	Q
default area (Online/Total n	Channel Name	Object Li	Edit	Face Capt 💊	\prime Schedule of so \lor		Schedule	Edit	Delete
Device Name_E3 Device Name_IPC	Device Name_facial ipc	1	[Face	e Capture by IPC			7*24		Ī
Device Name_facial ipc				e Match by IPC			5*24		Ī
 Device Name_ptz Device Name_thermal ipc facial ipc 			Emp	oty	J				

② Set face match type.

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

2								_		_
	Channel Na	Object Lib	Ec	dit	Schedule	\sim	Face Captu	re So	\sim	
-	IP Camera01 2				7*24		Face Capture by IPC			
	Gbject Library Task Setting									
	Object Libr	ary List^	Added Object Library							^
	□ 器 Intelligent Analy		NO	ntellig	ent Serve	ject	Library Nar	Al	arm Type	
	– <u>A</u> 3(Failu		1	Intelli	gent		2	Unma	tched	>
	Double click the	e library nam	e to ad	ld; doul	ble click tl	ne a	dded object	library Ok		e it. ncel

Schedule and face match configuration of NVR:

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

			Camera Name	IPC2333			
			Face Rec	ognition	LPR		
Live Display Playback	Search and Backup Intelligent An	nalysis Function Panel	Detection	Recognition	Detection	Recogni	
Event Notification	Function Panel Face Recognition	Face Data	abase 🥕	Plate Database 🖊			
Event Notification Alarm-out E-mail Display Buzzer Push Message Audio Light	Camera Name	Enable ☑ Successful Recognition □ Stranger Parameter Settings <u>Successful Recognition</u> Stranger					
Alarm Server	Face Recognition	LPR					
AI Event	Detection Recognition	Detection Recognition	Face Group	More 🗹 All	01;		
Face Recognition LPR	Face Database 🍌	Plate Database 🥕	Schedule	24x7	Schedule Manag	ement	
People/Vehicle Perimeter More	Enable Successful Recognition 🗆 S	Stranger	Text Prompt				
~~~	Parameter Settings Successful Recogni	Enable alarm output pulse(Access Control)					
General Event	Face Group	Similarity(%)	Trigger General		Record Configure	A	
Combination Alarm IPC Offline  Exception Handling Settings	01 75		Push		IPC2333		

The alarm type: Matched or Unmatched can be optional.

#### **Viewtron NVMS**

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

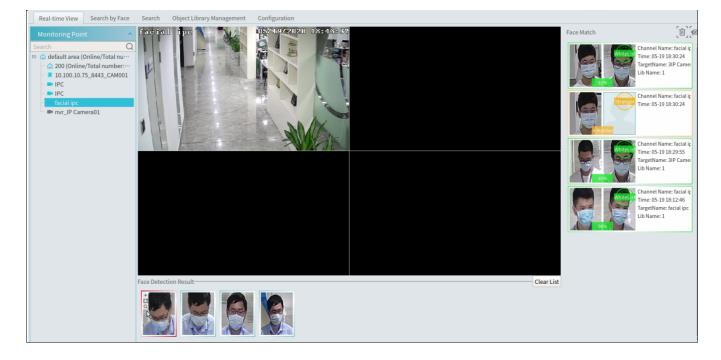
If "Unmatched" is enabled, a) when the captured face picture is successfully matched, this result will not be pushed to the alarm service;

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

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

# 14.1.3 Real-Time View

If the IPC supports face detection, you will view the face capture picture. The screen display mode: 1/4/9/16 can be selected.



Put the cursor on the captured picture and then 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.

		A	dd to Object	Library			×
Object Library List	^	Add Targe	:t				^
B ♣ Intelligent server		Name: Gender: Province: ID Type: ID NO.: Remark:	facial ipc Male DD Card	× ×	Birth Date: Country: City:	19-05-2020	
		Remark:				ОК	Cancel

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

Real-time V	iew Search by Fa	ace s		ct Library M	anagement Configurati	on			
Face Recognition NVR									
Search		Q	Track List V	ew E-M	ap Track View				
- 🗌 🏠 121 - 🗌 🏠 28181	L	Î		No.	Time	Monitoring Point	Picture	Record Playback	
	100.10.135_6036			1	2020-04-11 15:25:32	225-1		۲	
- 🗌 🏠 172	2.16.48.191_6036 2.16.48.194_6036 2.16.48.195_6036	, v		2	2020-04-11 15:25:33	225-1		۲	
Select Image				3	2020-04-11 15:25:33	225-1	The second se	۲	
			0	4	2020-04-11 15:25:34	225-1		۲	
Start Time	2020-04-11 00:00:00	0		5	2020-04-11 15:25:34	225-1		۲	
End Time Max. Number	2020-04-11 23:59:59 100	~		~	2020 04 44 45 25 24				
Similarity(%)	75 Previous	Next	Select All	Reverse	Clear All Playback	Selection			>

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

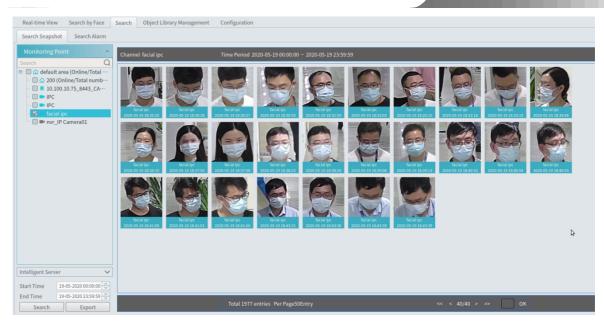
The right panel of the real-time view interface is face match result area. Click it to view the matched details.

	Verified	Target Info	×
Alarm Resourc	e: facial ipc Alarm 1	Fime: 2020-05-19	18:30:24
	+ WhiteLis 81%		
Name	3IP Camera01	Gender	Male
Birth Date	2020-05-19	Lib Name	1
ID Type	ID Card		
ID No.			
			OK Cancel

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

# 14.1.4 Search

- (1) Go to Face Recognition  $\rightarrow$  Search interface.
- 2 Select the IPC and picture source.
- 3 Select the captured match pictures from intelligent server or face recognition NVR.
- 4 Set the start and end time and then click [Search] to search the face pictures.



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



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

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

## 14.1.5 Search Image by Image

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



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

Click to play the record in a small window.

Real-time V	/iew Search by Fac	e Soi	irch Objec	t Library Man	agement Config	unation			
_			earch Result	C LIDIALY MAIN	agement comig	лацоп			
	gnition NVR								
Search	ultaroa	Q	Track List V	ew E-Ma	p Track View				
				No. 🔺	Time	N	Ionitoring Point	Picture	Record Playback
Select Image									
Start Time	19-05-2020 00:00:00	÷							
End Time	19-05-2020 23:59:59	÷							
Max. Number	100								
Similarity(%)	20								
S	earch Previous	Next	Select All	Reverse	Clear All P	ayback Selection			

• E-Map Track View:

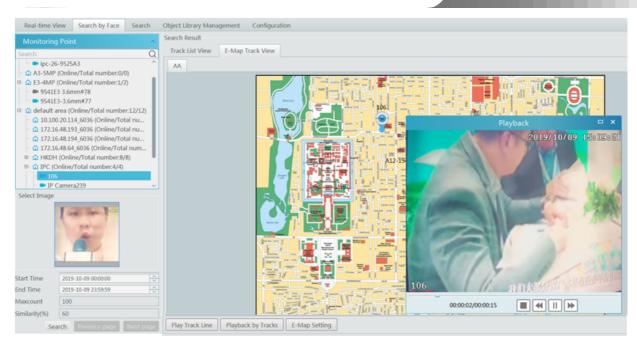
① Create a E-map. You can create or delete an E-map in this interface. The hot spot can be added to the E-map too.

	E-Map Setting	×
Map Management	Create Map Modify Map Delete Map	
Search Q	Create Map × Map Name Parent Map 1 v Map Type O Baidu Map @ Picture Map Map File	
Monitoring Point ~		
Sensor ~ Subsystem ~		
Zone ×		
Door ~		

② Search the track

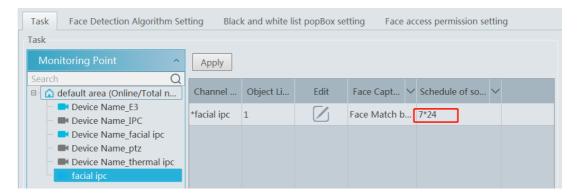
Click [Play Track Line] to play track line.

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



# 14.1.6 Configuration

#### ① Set the schedule.



② Face Detection Algorithm Setting

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

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

Similarity		
Similarity(%) 75		
	Refresh	OK
Send Captured Pictures to FTF	o	
Enable FTP		
FTP Server Address		
FTP Server Port 21		
FTP File Path /		
Anonymous		
User Name	Password	
	Refresh	ОК

#### ③ Pop-up Window Setting

Black list	○ Pop up	On	't pop up		
White list	○ Pop up	On	ı't pop up		
Stranger	○ Pop up	•	)on't pop up		
Duration Time of VIP Box (s)	○ Always	show	Automatically hide (after 3s)	$\bigcirc$ Automatically hide (after 5s)	○ Automatically hide (after 10s)
Apply					

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

# 14.1.7 Face Recognition Terminal Access and Configuration

The setting steps are as follows:

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



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

the second s			Ethernet lp mode	172.16.47.135
Antibanding mode Te	thering & portable hotspot	netmask 255.255.255.0	() statio	Gateway
System Configuration		gateway 172.16.0.1	static	172.16.0.1 netmask
Ethernet Settings	Ilular networks	dns1 192.168.0.5	O dhcp	255.255.255.0
ViFi Settings	work settings reset	dns2 116.116.116	0 unop	DNS 1 192.168.0.5
Ethe		Ethernet Ip mode	О рррое	DNS 2 116.116.116.116

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

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

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

Self-define the ClientId and ClientSecret.

	Viewtro
	简体 繁體 English
Username A admin	
Password	
Change Password	Login
Central Management System VLEPRET	简体 繁體 English G-Logout
My Application	Create
test1	
Appid :     test1     Create Time :2019-09-24       Clientid :     a7bc47a075ebbe9ba29d225f7ac35e74     Application Instructions :       ClientSecret :     3e715f29f0900005	10.56-42 Detecte
ClientId : a7bc47a075ebbe9ba29d225f7ac35e74 Application Instructions :	10.56-42 Delete

#### 4. Platform access:

**Note**: The FR terminal only can be controlled by one platform. Please do not connect one FR terminal to multiple management platforms. Start the monitor client and then go to the "Add, Edit or Delete Device" interface. Choose "Encoding Device" and then click [Add]. Click the "Manually Add" tab to add a FR terminal. The protocol shall be "FR Terminal".

Add, Edit or Delete Device         Device Setting         Area Setting         Channel Group Setting										
Device Type         Add         Delete         Select Area         Select Transfer Server         Select Storage Server         Batch Upgrade for IPC         Search         Q										
									×	
Decoder (Online/Total number:0/0) Intelligent Analysis Server (Online/T	Quickly Add Manually	dd Initiatively Report GB28181 Device								
Storage Server (Online/Total numbe Media Transfer Server (Online/Total	IP Address/IP Range/D	omain Name/URL	Protocol	Port	User Name	Password	Test	Delete		
Alarm Server (Online/Total number:	IP Address:	IP Address:0.0.0			admin	•••••				
Alarm server (Unline/Total number; TV Wall Server (Online/Total numbe	Select Transfer Server Trans Select Area 🙆 dd		Standard Hikvision Dahua ONVIF PMS ATM FR Terminal Select Storag Create Area	e Server Storag	ge Server omatically Link	Area	Default pass	word OK	Cancel	
		Add E	ncoding D	evice					×	
Quickly Add Manually	Add Initiatively Repo	ort								
IP Address/IP Range/D	omain Name/URL	Protocol	Port	User Name	Password	d Tes	st [	Delete		
IP Address:	0.0.0.0	FR Terminal	8081		]	Tes	st	Ū		
IP Address:	0.0.0.0	Standard D	6036	admin	•••••					

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

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

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

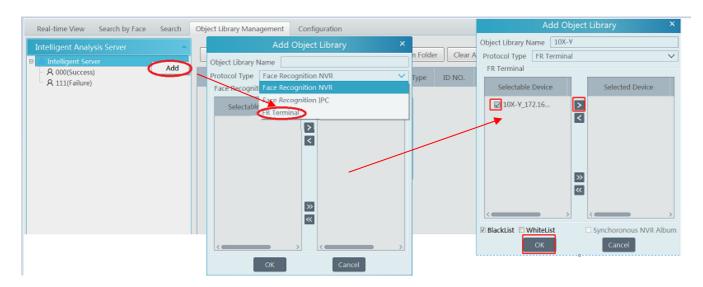
5. Link the FR terminal to a library

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

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

Protocol Type: please select FR Terminal.

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



#### (2) Add targets

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

Real-time View Search by Face S	Search	Object Library Management	Configuration			
Intelligent Analysis Server □ = = Intelligent Analysis Server □ = _ Q. 22(Success)	^	Delete Add Target	Add Multiple Targets Add Targe	Import From Folder	Clear All Targets	Apply Priority
A 555(Success)		<b>.</b>	Open       ○ ○ ○ ■ ▶ Libraries ▶ Pic	tures 🕨	✓ 4y Search Pictures	Normal
		Name: Country: ID Type: ID Card Remark:	<ul> <li>★ Favorites</li> <li>Desktop</li> <li>Devnloads</li> <li>ℝ cent Places</li> <li>≧ Documents</li> <li>Music</li> <li>Public Pictures</li> <li>Public Pictures</li> <li>Public Pictures</li> <li>Videss</li> <li>Computer</li> <li>Local Disk (C)</li> <li>Local Disk (E)</li> <li>E Local Disk (E)</li> </ul>	1jpg     2jpg       5jpg     6jpg       9jpg     10jpg	3.jpg 7.jpg 11.jpg Image Files(*.jpg	4.jpg B.jpg
		Authentication Server			Open	Cancel

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

) admin	Central Mana	agement System vi.5PRE1	简体 繁體 English D Logout
<b>A</b> ≡ Staff	Search Q	Search Q	Add Import
- <u>ˈ</u> dí-	+ 0 🛍	Select all Rank      I↑	
Alarm	All	Name : 1	Name : 8
団	Black List	Staff No. : Card No. :	Staff No. : Card No. :
Attendance	Visitor	Dept. : Black List Valid : Forever	Dept. : Black List Valid : Forever
ی Passage	VIP	Update Time :2019-09-26 10:42:04 Edit	Update Time :2019-09-26 10:41:57 Edit
	Other	Name: 6	Name: 4
API interface		Staff No. : Card No. :	Name : 4 Staff No. : Card No. :
<u>6</u>		Dept. : Black List Valid : Forever	Dept. : Black List Valid : Forever
Configuration			and the second sec
		Update Time :2019-09-26 10:41:52 Edit	Update Time :2019-09-26 10:41:46 Edit
		Name : 9 Staff No. :	977 Name : 11 Staff No. :
		Card No. : Dept. : Black List	Card No. : Dept. : Black List

#### (4) Face Access Permission Setting

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

Task	Face De		Face access permission added	×	Face access permission setting
	-	Select the target user	Select the face access guard	lected Device	Face access permission setting Search
		Support Ctrl multi selection		OK Cancel	

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

(5) Configure the schedule and library.

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

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

The alarm type: matched or unmatched can be optional.

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

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

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

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

(6) View the face match alarm information

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

# 14.2 Line Crossing Counting

# 14.2.1 Task Management

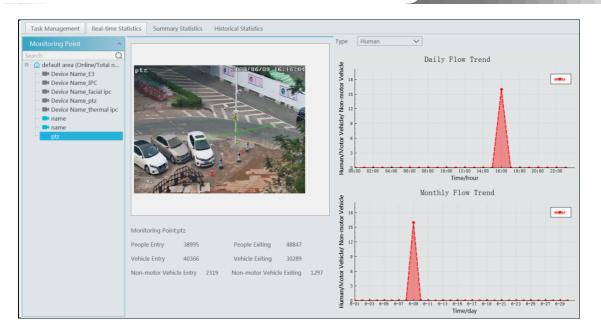
Go to Home  $\rightarrow$  Line Crossing Counting  $\rightarrow$  Task Management. Click the camera with the line crossing counting (or target counting) function and then select the schedule. After that, click [Apply] to save the settings.

Task Management Real-time Stat	tistics Summary Statisti	cs Historical Statistics
Monitoring Point	Apply	
Search Q	IP Channel Name	Schedule 🗸
<ul> <li>200 (Online/Total number:…</li> <li>10.100.10.75_8443_CAM001</li> </ul>	IP Camera01	OFF
	facial ipc	7*24
facial ipc	IPC	7*24
nvr_IP Camera01	IPC	7*24
	CAM001	OFF

## 14.2.2 Real-time Statistics

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

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



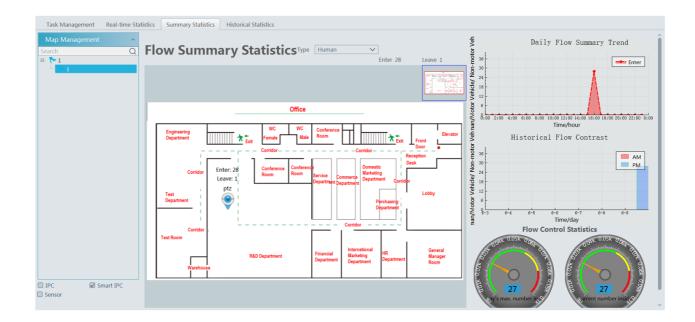
Please select the type as needed to view the flow trend.

# 14.2.3 Summary Statistics

Go to Home→Line Crossing Counting→Summary Statistics.

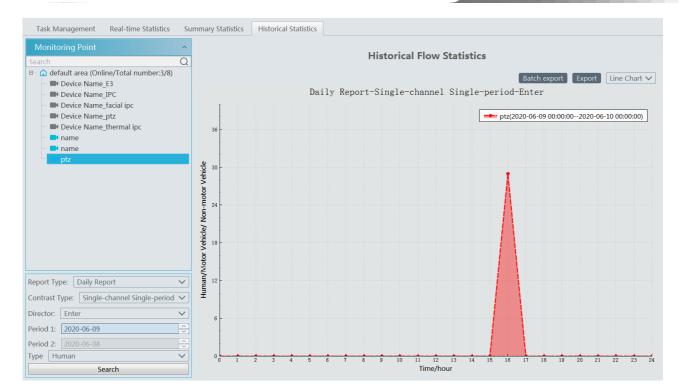
Before setting summary statistics, please set E-Map by going to Home  $\rightarrow$  E-Map  $\rightarrow$  E-Map Setting first. Drag the camera with the line crossing counting function to the specified area.

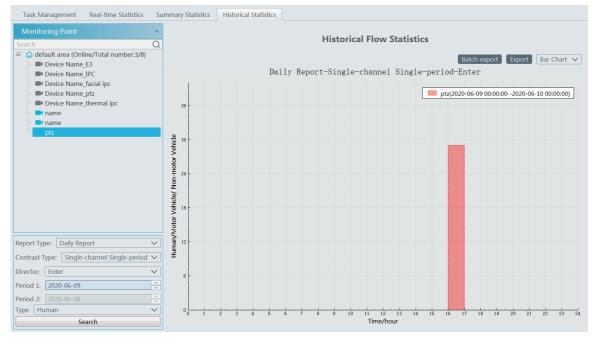
Then return to the summary statistics interface. The results of summary statistics of the specified multi-channel can be viewed.



# 14.2.4 Historical Statistics

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





# 15 Troubleshooting

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

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

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

- 2. Unable to work normally after starting server.
- 1) Please check whether the port is ocuppied and view the run status of the service as shown below

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

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

1) Please check whether this user account is an administrator account. If this account is an operator account, please check whether it has

the authority to view the device information.

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

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

1) Please check whether the schedule of sensor alarm, motion detection alarm and so on are set in the 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 playaback is set up correctly.

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

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

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

2) Please go to the live to see whether the device is being set up.

3) If the problem still exists, please contact your device manufacturer.

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

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

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

3) Please check whether the media transfer server is overload operation.

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

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

# Notes

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

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

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