

DSS Express

User's Manual



ZHEJIANG DAHUA VISION TECHNOLOGY CO., LTD. V8.2.0



Foreword

General

This user's manual introduces the functions and operations of DSS Express (hereinafter referred to as "the system" or "the platform").

Safety Instructions

The following signal words might appear in the manual.

Signal Words	Meaning	
Anger Danger	Indicates a high potential hazard which, if not avoided, will result in death or serious injury.	
	Indicates a medium or low potential hazard which, if not avoided, could result in slight or moderate injury.	
	CAUTION Indicates a potential risk which, if not avoided, could result in property damage, data loss, reductions in performance, or unpredictable results.	
© <u>_™</u> TIPS	Provides methods to help you solve a problem or save time.	
	Provides additional information as a supplement to the text.	

Frequently Used Functions

Icon/Parameter	Description	
0	View the details of an item.	
山	Clear all selected options.	
HR. Q	Search for items by keywords or specified content.	
or Delete	Delete items one by one or in batches.	
🖉 or 🌣	Edit an item.	
Disable , Enable , or Disable	Enable or disable items one by one or in batches.	
or Export	Exported the selected content to your local computer.	
💽 or Refresh	Refresh the content.	
*	A parameter that must be configured.	

Privacy Protection Notice

As the device user or data controller, you might collect the personal data of others such as their face, fingerprints, and license plate number. You need to be in compliance with your local privacy protection laws and regulations to protect the legitimate rights and interests of other people by implementing measures which include but are not limited: Providing clear and visible identification to inform people of the existence of the surveillance area and provide required contact information.



About the Manual

- The manual is for reference only. Slight differences might be found between the manual and the product.
- We are not liable for losses incurred due to operating the product in ways that are not in compliance with the manual.
- The manual will be updated according to the latest laws and regulations of related jurisdictions. For detailed information, see the paper user's manual, use our CD-ROM, scan the QR code or visit our official website. The manual is for reference only. Slight differences might be found between the electronic version and the paper version.
- All designs and software are subject to change without prior written notice. Product updates might result in some differences appearing between the actual product and the manual. Please contact customer service for the latest program and supplementary documentation.
- There might be errors in the print or deviations in the description of the functions, operations and technical data. If there is any doubt or dispute, we reserve the right of final explanation.
- Upgrade the reader software or try other mainstream reader software if the manual (in PDF format) cannot be opened.
- All trademarks, registered trademarks and company names in the manual are properties of their respective owners.
- Please visit our website, contact the supplier or customer service if any problems occur while using the device.
- If there is any uncertainty or controversy, we reserve the right of final explanation.



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1 Overview

1.1 Introduction

DSS Express can be used with 64 cameras for free and supports up to 256 cameras with license. In addition, it is easy to be integrated with access control, video intercoms and AI features such as facial recognition, ANPR, and video metadata. It is suitable for retail stores, vehicle entrance management, and office buildings.

1.2 Highlights

• Lower investment

The free version of DSS Express provides 64 video channels and requires more affordable hardware. As your needs increase, you only need to pay for a new license and get extra performance.

• Pay-as-you-go

DSS Express is flexibly scalable. You can purchase different licenses to increase the number of devices you can connect to the platform. DSS Express supports up to 256 video channels, 64 doors, and 256 video intercoms.

- Easy upgrade For more functions and capacity, simply upgrade to the professional version with just a license and a few simple steps.
- Unified platform

All your needs can be addressed directly in DSS Express with the comprehensive applications it can provide, including video surveillance, access control, video intercom, face recognition, and ANPR.



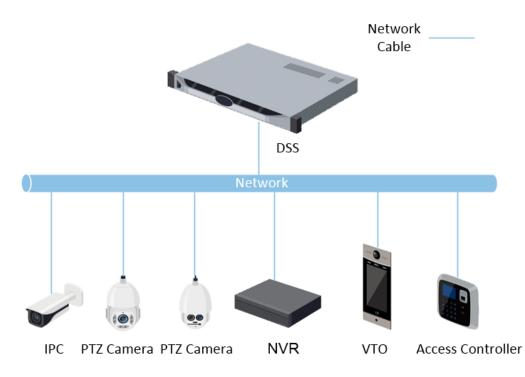
2 Installation and Deployment

DSS platform supports standalone deployment, and LAN to WAN mapping.

Standalone Deployment

For projects with a small number of devices, only one DSS server is required.

Figure 2-1 Standalone deployment





2.1 Standalone Deployment

2.1.1 Server Requirements

Parameter	Hardware Requirement	Operating System
Recommended configuration	 CPU: Intel® Core(TM) I7- 9700K CPU@3.60GHZ RAM: 8 GB Network card: 1 × Ethernet port @ 1000 Mbps Hard drive type: 7200 RPM Enterprise Class HDD 1 TB DSS installation directory space: 500 GB 	Windows 7 and above
Minimum configuration	 CPU: Intel® Core(TM) I5- 9400 CPU@2.90GHZ RAM: 8 GB Network card: 1 × Ethernet port @ 1000 Mbps Hard drive type: 7200 RPM Enterprise Class HDD 1 TB DSS installation directory space: 200 GB 	Windows 7 and above

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- Face recognition images, videos, and files cannot be stored on the system disk and DSS installation disk. Make sure that your server has at least 3 HDD partitions to ensure that these files can be stored.
- For best performance, we recommend adding additional hard drives to store pictures.

2.1.2 Installing DSS

Prerequisites

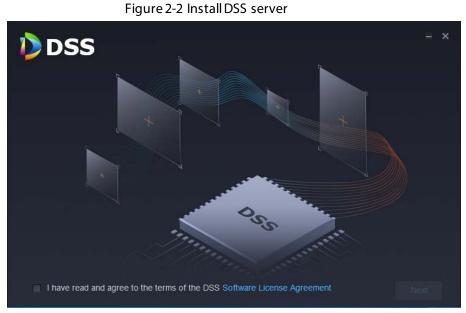
- You have downloaded the DSS installer from the official website or received it from our sales or technical support.
- You have prepared a server that meets the hardware requirements mentioned in "2.1.1 Server Requirements", and the server IP address is configured.



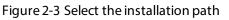
Procedure

<u>Step 1</u> Double-click the DSS installer 擧.

The name of the installer includes version number and date, confirm before installation.



- <u>Step 2</u> Click **Software License Agreement**, and then read the agreement,
- <u>Step 3</u> Select the check box to accept the agreement, and then click **Next**.





Step 4

Click **Browse**, and then select the installation path.

If the **Install** button is gray, check whether your installation path and space required meet the requirements. The total space required is displayed on the page.

 \square

We do not recommend you install the DSS server on Disk C, because features such as face recognition require higher disk performance.

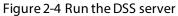
Step 5 Click Install.



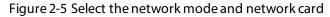
\wedge

The installation process takes about 4 to 8 minutes. Do not cut off the power or close the program.





<u>Step 6</u> Click **Run** when the installation finishes.



Config Wizard		
Step 1: Netw	ork Config	
Network Mode Single NIC Dual NIC @		
Local IP		
Ethernet		
		Next Step

<u>Step 7</u> Select a network mode and the network card, and then click **Next Step**.

<u>Step 8</u> Enable or disable TLS1.0 as needed.

TLS 1.0 has known security vulnerabilities. We strongly recommend you disable it to avoid security risks. If it is disabled, the web page of DSS platform cannot be accessed through the browser. You need to enable TLS 1.1 and TLS 1.2 in the browser settings to gain access to the web page.

Step 9 Click Finish.



If the available RAM of the server is less than 2 GB, you can only use basic functions related to video. If it is less than 1.5 GB, you cannot use any function.

Related Operations

- To uninstall the platform, log in to the server, go to "..\DSS\DSS Server\Uninstall", double-click uninst.exe, and then follow the on-screen instructions to uninstall the program.
- To update the system, directly install the new program. The system supports in-place update. Follow the steps above to install the program.

2.1.3 Configuring Server IP Address

Change the server IP address as you planned. Make sure that the server IP can access the devices in your system. For details, see the manual of the server.

 \square

After changing the IP address of the server, you need to update it in the system services. See the following section.

2.1.4 Managing System Services

View service status, start or stop services, and change service ports.

On the server, double-click

Figure 2-6 Service management page

DSS Server				234	5678 100-×	
Restart All Stop All	C Refresh				Running	-9
Service	Service Category	Port	Status	Exception Info	Operation	
NGINX(Proxy Service)	Basic Service	HTTP:80 HTTPS.443(Login Port)	Running		1	
SMC(System Management	Basic Service	HTTP:8000 HTTPS: 8443 CMS:9000 SI:UTDOWN:8006 REDIRECT:9005	 Running 			
HRS(Plalform Discovery S	Basic Service		Running			
REDIS(Data Cache Service)	Basic Service	6379	Running		1	-1
MySQL(Database)	Basic Service	3306	Running		1	
MQ(Fush Notification Servi	Basic Service	OPENWIRE:61616 MQ1 I:1883 AMQP:5672 STOMP:61613 JETTY:8161	 Running 			
CFGS(Configuration Servi	Basic Service	HTTP:19801 HTTPS:19443	Running		1	
ADS(Alarm Assignment Se	Basic Service	9600	Running		1	
MTS(Media Forwarding Se	Basic Service	RTSP:9100 RTSPS:9102	• Running		1	
MCW(Media Cateway Ser	Basic Service	9090	Running		1	



Table 2-2	Interface description
	internace accomption

No.	Function	Description
1	Service Management	 Click Restart All to restart all services. When starting the platform, if the available memory of the server does not reach 2 GB, only the basic video services can be enabled. If the server has less than 1.5 GB of available memory, no services are available. Click II Stop All to stop all services. Click Refresh to refresh services.
2	User's manual	User manual.
3	Language	Switch language.
4	Security Setting	 TLS 1.0 has known security vulnerabilities. We strongly recommend you disable it to avoid security risks. If it is disabled, the web page of DSS platform cannot be accessed through the browser. You need to enable TLS 1.1 and TLS 1.2 in the browser settings to gain access to the web page. 1. Open Internet Explorer. 2. Click the Tools button at the upper-right corner, and then select Internet Options. 3. Select the Advanced tab. 4. Go to the Settings > Security, and then select Use TLS 1.1 and Use TLS 1.2. 5. Click OK.
5	Setting	 Configure the IP address of the server and IP mapping. Set up an IP address for the server so that the platform can access the network and the devices in it. If the server has two network cards, you can select Dual NIC mode, configure two IP addresses, and then the platform will be able to connect to two networks and access the devices on each one. If the platform is in a local network and the devices are on the internet, or you need to access the platform that is in a local network from the Internet, you need to map the IP address of the platform to a WAN IP address or a domain name. For details, see "2.5.2 Mapping IP or Domain Name".
6	About	Software version information.
7	Minimize	Minimize the page.
8	Close	



No.	Function	Description
9	Service Status	 Services are starting. Service is running abnormally Services are stopping. Running: Service is running normally services have stopped.
10	Services	Displays each service and service status. Click 🜌 to modify service port number, and then the services will restart automatically after modification.
11	Download DSS Client	Go to client download page of the DSS client.

2.1.5 Installing and Logging into DSS Client

Install the DSS client before licensing it.

2.1.5.1 Installing DSS Client

You can visit the system through the DSS Client for remote monitoring.

2.1.5.1.1 DSS Client Requirements

To install DSS Client, prepare a computer in accordance with the following requirements.

Parameters	Description
Recommended system requirements	 CPU: I5-6500@3.20GHz Memory: 8 GB and above Graphics: NVIDIA® GeForce®GT 530 Network Card: 1000 Mbps HDD: Make sure that at least 100GB is reserved for the client.
Minimum system requirements	 CPU: I3-2120@3.20GHz Memory: 4 GB Graphics: Intel® HD Sandbridge Desktop Graphcs Network Card: 1000 Mbps DSS client installation space: Make sure that at least 50 GB is reserved for DSS client.

2.1.5.1.2 Downloading and Installing DSS Client

Procedure

<u>Step 1</u>	Go to https://IP address of the platform in the browser	
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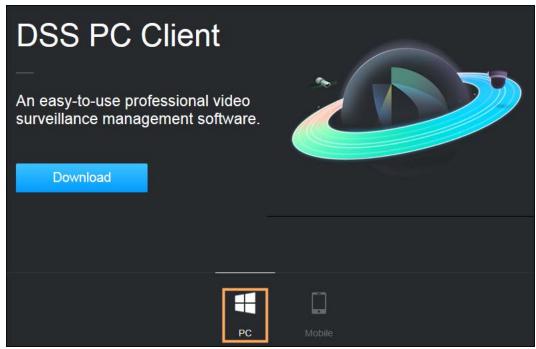
<u>Step 2</u> Click **PC**, and then **Download**.

If you save the program, go to Step 3.

If you run the program, go to Step 4.



Figure 2-7 Download DSS Client



- <u>Step 3</u> Double-click the DSS Client program.
- <u>Step 4</u> Select the check box of **I have read and agree to the DSS agreement** and then click **Next**.
- <u>Step 5</u> Select installation path.
- Step 6 Click Install.

System displays the installation progress. It takes about 5 minutes to complete.

2.1.5.2 Logging in to DSS Client

Procedure

- <u>Step 1</u> Double-click **D** on the desktop.
- <u>Step 2</u> Select a language.
- <u>Step 3</u> Enter the IP address and port number of the platform.
 On the drop-down list, platforms that are in the same network as your computer will be shown.



If you want to log in to the platform using its domain name, you must link its IP address to a domain name first. For details, see "2.5.2 Mapping IP or Domain Name".

DSS			🌐 English	•	×
	Normal User	-			
		-			
	Previously Used Servers				
	Z Remember Password				
	Auto Login				
	Log In				
	Forgot password?				

Figure 2-8 Automatically discovered platform

Step 4Click anywhere else on the page to start initializing the platform.For first-time login, you will be automatically directed to the initialization process.If you are not logging in for the first time, enter the IP address, port number of the
platform, username, and password, and then click Login.

- The default user is system. Enter and confirm the password, and then click Next. The password must consist of 8 to 32 non-blank characters and contain at least two types of characters: Uppercase, lowercase, number, and special character (excluding ' ";:&).
- Select your security questions and enter their answers, and then click **OK**.
 The client will automatically log in to the platform by using the password you just set.



2.1.5.3 Homepage of DSS Client

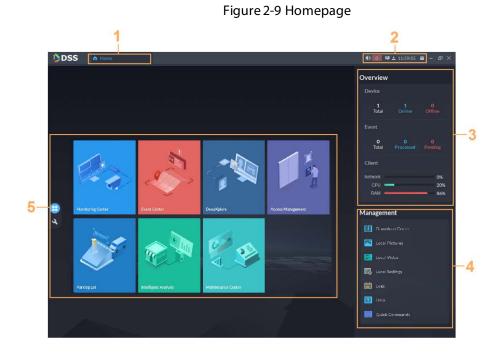


Table 2-4 Parameter description

No.	Name	Function
1	Tab	Displays the names of all tabs that are opened.
2	System settings	 Enable or disable alarm audio. Displays number of alarms. Click the icon to go to Event Center. Click I to view system messages, such as the information of a device was edited or deleted. The permissions of a user will determine what messages can be seen. For example, if user A does not have the permission of device A, then user A will not get the message when device A is deleted. I user information: Click the icon, and then you can log in to the web page by clicking system IP address, change password, lock client and log out. Click platform IP address to go to the Web page. Click Change Password to change user password. Click Sign Out to exit client. Click I olock client.
3	Overview	 The number of devices in total, offline and online. The number of total, processed and pending events. The client network, CPU and RAM usage.



No.	Name	Function
4	Management	 Download videos. Check local pictures and videos. Settings for video, snapshot, video wall, alarm, security and shortcut keys. View and manage logs. View user manual. Customize quick HTTP commands. For details, see "8.5 Quick Commands".
5	Applications	 Application options including monitoring center, access management, intelligent analysis and vehicle entrance control. Configuration options.

2.1.6 Licensing

You can upgrade your license for more features and increased capacity. This section introduces license capacity, how to apply for a license, how to use the license to activate the platform, and how to renew your license.

2.1.6.1 Applying for a License

A license is used to confirm the features and number of channels you purchased. To get a formal license, contact our sales personnel. To apply for a trial license, visit our website and find DSS Express, scroll to the bottom, click **Apply**, and then follow the instructions. You can only use a trial license on a server once.

2.1.6.2 Activating License

 \square

The following images of the page might slightly differ from the actual pages.

2.1.6.2.1 Online Activation

Prerequisites

- You have received your license. If not, see "2.1.6.1 Applying for a License". A license is used to confirm the features and number of channels you purchased. To get a formal license, contact our sales personnel. To apply for a trial license, visit our website and find DSS Express, and then follow the application instructions.
- The platform server can access the Internet.

Procedure

- <u>Step 1</u> On the **Home** page, click **N**, and then in **System Config**, select **License**.
- Step 2 Click **Online Activate License**.



- <u>Step 3</u> Enter your new **Activation Code**.
- Step 4 Click Activate Now.
- <u>Step 5</u> On the **License** page, view your license details.

2.1.6.2.2 Offline Activation

Prerequisites

You have received your license. If not, see "2.1.6.1 Applying for a License". A license is used to confirm the features and number of channels you purchased. To get a formal license, contact our sales personnel. To apply for a trial license, visit our website and find DSS Express, and then follow the application instructions.

Procedure

- <u>Step 1</u> On the **Home** page, click **N** and then in **System Config**, select **License**.
- Step 2 Click **Offline Activate License**.
- <u>Step 3</u> Enter your new **Activation Code**.
- <u>Step 4</u> Click **Export** to export the license request file.
- <u>Step 5</u> Generate license file.
 - 1) Move the request file to a computer with Internet access.
 - 2) On that computer, open the system email that contains your license, and then click the attached web page address or **Click to go to DSS License Management** to go to the license management page.
 - 3) Click Activate License.
 - 4) Click **Upload**, select the license request file, and then when you are prompted **uploaded successfully**, click **Activate**.

The success page is displayed, where a download prompt is displayed asking you to save the license activation file.



Figure 2-10 Upload license request file

Activate DSS License Management		
	Request File: Upload Only Support ZIP,file size less than 2MB The license request file can be exported in DSS software. License Key: XXXX-XXXX-XXXX	
	Activate	

- 5) On the success page, click **Save** to save the file, and then move the file back to the computer where you exported the license request file.
- 6) On the **Offline Activate License** page, click **Import**, and then follow the on-screen instructions to import the license activation file.
- <u>Step 6</u> On the **License** page, view your license details.

2.2 Distributed Deployment

2.3 Hot Standby

For detailed steps, see *DSSReplicatorPlus2.0 Configuration Guide V8.1.1.docx*. If you have any problems, contact technical support.

2.4 N+M

On the main server, enable the sub server, and then create the sub-standby relationship.

Prerequisites

See "2.1 Standalone Deployment" and "2.2 Distributed Deployment" to deploy the servers you need. The relevant servers have been well deployed.

Procedure

<u>Step 1</u> Log in to the parent DSS client. On the **Home** page, click \ge > **System Deployment**. Step 2 Click .



<u>Step 3</u> Click **C** to enable the sub servers.

<u>Step 4</u> Configure a standby server.

- 1) Click 🚺 of a subserver.
- 2) Select Standby Server for Server Type, and then click OK.
- <u>Step 5</u> Configure the sub-standby relationship in either of the following ways.
 - Go to the **Server Configuration** page of the subserver to select a standby server.
 - 1. Click 🔯 of a subserver.
 - 2. On the Select Standby Server(s) section, select one or more standby servers.

Figure 2-11 Select a standby server

් Se	rver Configuration				
	Server Name:		IP Address:		
	Server Type:				
	Sub Server Select Standby Server(s)	0	Selected (1)		¥
			10.00 (M	t	+ •

- 3. Click **OK**.
- Go to the **Server Configuration** page of the standby server to select a sub server.
 - 1. Click 🔯 of a standby server.
 - On the Select Sub Server(s) section, select one or more sub servers.
 You can click to adjust the priority.
 - 3. Click OK.

2.5 Configuring LAN or WAN

2.5.1 Configuring Router

For the list of the ports that need to be mapped, see "Appendix 1 Service Module Introduction".

 \square

Make sure that the WAN ports is consistent with LAN ports.

2.5.2 Mapping IP or Domain Name

If the platform is deployed in a local network, you can map the IP address of the server to a fixed WAN IP or a domain name, and then log in to the server using the WAN IP or domain name. The page might vary between the main server and the sub server. This section uses the main server page as an example.

Procedure

<u>Step 1</u> Log in to DSS server, and then double-click **Q**.

<u>Step 2</u> Click the 🔯 on the upper-right corner.



Figure 2-12 Setting

Setting	js		×
Se	erver IP:		
Ma	apping IP Domain:		0
		ОК	Cancel

<u>Step 3</u> Enter a fixed WAN IP address or a domain name in the **Mapping IP | Domain** box, and then click **OK**.

If you want to use a domain name, you need to make corresponding configurations on the domain name server.

<u>Step 4</u> Click **OK**, and then the services will restart.



3 Basic Configurations

Configure basic settings of the system functions before using them, including system activation, organization and device management, user creation, storage and recording planning, and event rules configuration.

3.1 Managing Resources

Manage system resources such as devices, users, and storage space. You can add organizations and devices, configure recording plans, bind resources, and more.

3.1.1 Adding Organization

Classify devices by logical organization for the ease of management. The default organization is **Root**. If the parent organization is not specified, newly added devices are attached to **Root**.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **Basic Config** section, select **Device**.
- <u>Step 2</u> Click 儲
- <u>Step 3</u> Add an organization.
 - 1) Select a parent organization.
 - 2) Click 📑.

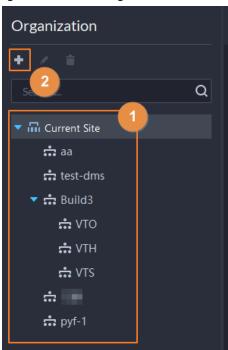


Figure 3-1 Add an organization

3) Enter the name of the organization, and then click **OK**.



Figure 3-2 Add an organization
5 Create Organization
Parent Organization:
Root 👻
Organization Name:
•
Remark:
OK Save and Add Device Cancel

You can also right-click the root organization, and then click **Create Organization** to add an organization.

Related Operations

- Change organization name Right-click the organization, and then click **Rename**.
- Change the organization of devices Select one or more devices, and then click **Move To** to move them to another organization.

3.1.2 Managing Device

Add devices before you can use them for video monitoring. This section introduces how to add, initialize, and edit devices and how to change device IP address.

3.1.2.1 Searching for Online Devices

 \square

Search for devices on the same network with the platform before you can add them to the platform.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click , and then in the **Basic Config** section, select **Device**.
- <u>Step 2</u> Click 🔂.
- <u>Step 3</u> Click 🛣.

The icon changes to 📓 when devices are searched.



- When using the platform for the first time, the platform automatically searches for devices on the same network segment.
- If not the first time, the platform automatically searches for the devices in the network segment you configured last time.

* * *		🗄 Import 🖄 Expert 🗳 Mo	we To 🛛 🔒 Modify Password	Time Zone Settings	O Refresh		
	Q All Encoder A		NPRDevice Video Wall Co				
- 📾 Root	IP Address	Device Name	Device Type	Organization	Online Status	- Offline Reason	Operation
	2 10.0.10.00						
🖶 test-dms						Network Exception.	<pre>/ #</pre>
⇔ vīo							/ 0 B
th VTH							· e =
☆ VIS ☆ (1111) ☆ pyf-1						Network Exception.	* *
	Chicover Desice						
	+ Add to Device List	Refresh 🙁 Initialize 🥒 Modil				Signert	
	Initialization State	s - IP Address	Device Mo	del Port		MAC Address	Operation
	 Initialized 		PC-NVR				=

Figure 3-3 Search for devices

<u>Step 4</u> Specify **IP Segment**, and then click **Search**.

Figure 3-4 IP segment search

	Devices without License						
+ Add to Device List O	efresh 🙁 Initialize 🥒 Modify IP			IP Segment:	192.168.1.1	192.168.1.240	Search
Initialization Status	+ IP Address	Device Model	Port	MACA	ddress	Operation	

3.1.2.2 Initializing Devices

You need to initialize the uninitialized devices before you can add them to the platform.

Procedure

- <u>Step 1</u> Search for devices. For details, see "3.1.2.1 Searching for Online Devices".
- <u>Step 2</u> Select an uninitialized device, and then click **Initialize**.

<u>_~r</u>

- You can select multiple devices to initialize them in batches. Make sure that the selected devices have the same username, password and email information. The information of these devices will be the same after initialization, such as password and email address.
- Click next to Initialization Status to quickly sort out devices in certain status.
- <u>Step 3</u> Enter the password, and then click **Password Security**.
- <u>Step 4</u> Enter the email address, and then click **Change IP**.

	The email is used to receive security code for resetting password.
<u>Step 5</u>	Enter the IP address, and then click OK .

When setting IP addresses in batches, the IP addresses increase in an ascending order.



3.1.2.3 Changing Device IP Address

You can change IP addresses of the devices that have not been added to the platform.

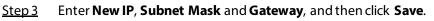
Procedure

- <u>Step 1</u> Search for devices. For details, see "3.1.2.1 Searching for Online Devices".
- <u>Step 2</u> Select a device, and then click **Change IP**.

 \square

For devices that have the same username and password, you can select and modify their IP addresses in batches.

×		authorized Devices				
+ A4	dd to Device List 🛛 🔿 Refrest	n 💿 Initialize 🖌 Change IP			IP Segment:	- Search
	Initialization Status	• IP Address	Device Model	Port	MAC Address	Operation
	Initialized	101.028.584	DHI		and the strength of the state o	=
	Initialized			Change Device IP		=
	Initialized					=
B)	 Initialized 					=
(論)	Initialized					ਙ
B .	Initialized		12233445436	Gateway:		=
	Initialized				Save Cancel	≣
識別	Initialized		DH-NVR4432-I			=



When setting IP addresses in batches, the IP addresses increase in sequence.

<u>Step 4</u> Enter the username and password used to log in to the devices, and then click **OK**.

3.1.2.4 Adding Devices

You can add different types of devices, such as encoder, decoder, ANPR device, access control, and video intercom. This section takes adding an encoder as an example. The configuration pages shown here might be different from the ones you see for other types of devices.

 \square

When you add devices by using automatic registration, IP segment, or importing, some devices will fail to be added if they exceed the number of devices or channels allowed to be added to the platform. These devices will be displayed in **Devices without License**.

3.1.2.4.1 Adding Devices One by One

There are multiple ways you can add devices to the platform, including using domain names, serial numbers, IP addresses, IP segments, and automatic registration.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **Basic Config** section, select **Device**.
- Step 2 Click 🔛
- Step 3 Click Add.
- Step 4Enter device login information, and then click Add.In the Add Mode drop-down list,



• **IP Address**: Add a device. We recommend selecting this option when you know the IP address of the device.

 \square

Only **Encoder** devices support IPv6. If you want to add devices to the platform through IPv6 addresses, you must first configure an IPv6 address for the platform. Contact technical support for help.

- **IP segment**: Add multiple devices in the same segment. We recommend selecting this option when the login username and password of the multiple devices in the same segment are the same.
- **Domain Name**: We recommend selecting this option when the IP address of the device changes frequently and a domain name is configured for the device.
- Auto Registration: We recommend this method when the IP address of a device might change. The ID of auto register has to be in accordance with the registered ID configured on the device you want to add. The port number must be the same on the platform and on the device. The auto register port is 9500 on the platform by default. To change the auto register port number, open the configuration tool to change the port number of DSS_ARS service.

<u>Orr</u>

- After a device is added through auto registration, hover the mouse over its IP address on the device list, and then you can see its local IP address and the IP address it uses to connect to the platform.
- Sleep function is supported for IPCs that use 4G mobile network to communicate and are solar-powered only when they are added to the platform through automatic registration.
- **P2P**: Add devices under a P2P account to the platform. The platform must be able to access the P2P server. There is no need to apply for the dynamic domain name of the device, perform port mapping or deploy a transit server when using it.



The parameters vary with the selected protocols.

1.Login Information		
Add Mode:		Access Protocol:
IP Address	-	Dahua 🔻
Device Category: 🖗		IP Туре:
Encoder	•	IPv4 IPv6
IP Address:		Device Port:
* 18196338		• 37777
Username:		Password:
* admin		• •••••
Organization:		Server:
Root	-	10.00 (dd. 00

- <u>Step 5</u> Enter the information.
- Step 6 Click OK.
 - To add more devices, click **Continue to add**.
 - To go to the web manager of a device, click

3.1.2.4.2 Adding Devices through Searching

Devices on the same network with the platform server can be added using the automatic search function.

Procedure

- <u>Step 1</u> Search for devices. For details, see "3.1.2.1 Searching for Online Devices".
- <u>Step 2</u> Select a device, and then click **Add to Device List** or 🗮

<u>0-17</u>

If devices have the same username and password, you can select and add them in batches.

Figure 3-7 Add in batches

Discover Device Una					
+ Add to Device List O Refresh	🛇 Initialize 🅜 Change IP			IP Segment:	-
Initialization Status	• IP Address	Cevice Model	Port	MAC Address	Operation
 Initialized 					≣
 Initialized 		DH-SD59230T-HN		3-MARSON	
🔽 🥥 Initialized					=

<u>Step 3</u> Select the server and organization, enter username and password, and then click **OK**.



3.1.2.4.3 Importing Devices

Enter the device information in the template, and then you can add devices in batches.

Prerequisites

You have downloaded the template, and then enter device information in the template.

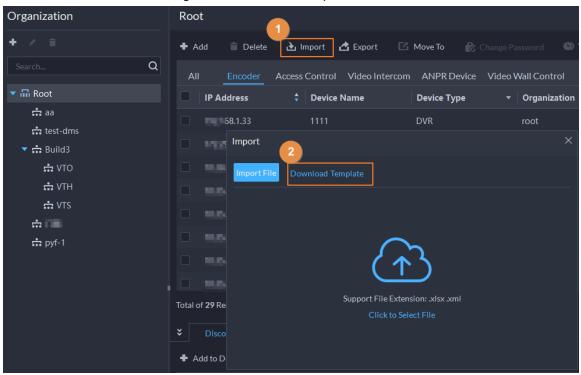


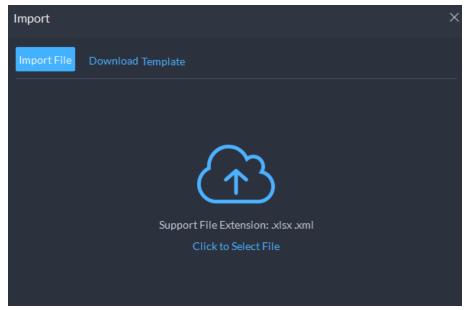
Figure 3-8 Download template

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **Basic Config** section, select **Device**.
- <u>Step 2</u> Click 🚮.
- Step 3 Click Import.



Figure 3-9 Import devices



<u>Step 4</u> Click **Import File**, and then select the completed template.

Step 5 Click OK.

3.1.2.5 Editing Devices

Edit the information of devices.

3.1.2.5.1 Changing IP Address

For the devices that have been added to the platform, and their IP addresses have been changed, you can edit their IP addresses directly on the platform so that they can connect to the platform normally.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **Basic Config** section, select **Device**.
- Step 2 Click **Device Config**.
- Step 3 Click 🜌 of a device.
- <u>Step 4</u> Edit the IP address, and then click **OK**.

3.1.2.5.2 Modifying Device Information

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **Basic Config** section, select **Device**.
- <u>Step 2</u> Click 🔂.
- <u>Step 3</u> Click **I** of a device, and then edit device information.

Click **Get Info** and the system will synchronize device information.



Figure 3-10 Basic information

C All Devices			
⊞ Basic Info	Basic Info		
Video Channel	Access Protocol:	Manufacturer:	
🚊 Alarm Input Channel			
Alarm Output Channel	Organization:	Server:	
😐 Audio and Light Channel	Root		
	IP Address:	Device Port:	
	* HEAVEN	* 37777	
	Modify Device Login Info:		
	Device Details		
	Device Name:	Device Model:	
	* alarm_test		
	Device Type:		
	IPC •		
	Device SN:		
	10.0% (0.1.0)		
	Time Zone: 🥏		
	(UTC+08:00) Beljing, Chongqing, Hong Kong, U	romqi 👻 Detalis	
Get Info OK Cancel			

<u>Step 4</u> Click **Video Channel**, and then configure the channel information, such as the channel name and channel features.

 \square

- The features that you can set for channels vary with the types of devices.
- If the device is added through the ONVIF protocol, you can configure the stream type of it video channels.
- <u>Step 5</u> Click the **Alarm Input Channel** tab, and then configure number, names, and alarm types of the alarm input channels.

 \square

Skip the step when the device do not support alarm input.

- Alarm type includes external alarm, Infrared detect, zone disarm, PIR, gas sensor, smoke sensor, glass sensor, emergency button, stolen alarm, perimeter and preventer move.
- Alarm type supports custom. Select **Customize Alarm Type** in the **Alarm Type** dropdown list. Click **Add** to add new alarm type. It supports up to 30 custom alarm types.
- <u>Step 6</u> Click the **Alarm Output Channel** tab and then edit the number and names of alarm output channels.
- <u>Step 7</u> Click the **Audio and Light Channel** tab, and then edit the number and names of the audio and light channels.

	\sim	<u> </u>
	1	- 11 -
-	-	

This tab will only appear if the device has audio and light channels.

Step 8 Click OK.



3.1.2.5.3 Configuring Channel Features in Batches

Configure the channel features in batches so that devices can work normally. The platform also displays the number of each type of channels features allowed to be configured to help you plan the types and number of devices you will use.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **Basic Config** section, select **Device**.
- <u>Step 2</u> On the top of the page, select **More** > **Capability Set Management**.
- <u>Step 3</u> In the **Capability Set Type** drop-down list, select a type, and then the platform will only display devices and channels that are configured with that type of capability set.
- <u>Step 4</u> Select the channels you want to configure.
- <u>Step 5</u> Click the area below the **Features** column, and then select one or more features.

Figure 3-11 Select capability sets

= co					
	Channel Name	Device Name	Organization	Features	
1	IPC	-1658.86.808	IPC	Intelligent Alarm	-
				🛃 Intelligent Alarm	
				Electric Focus	

<u>Step 6</u> Complete configuration.

- If configuration is complete, click **Complete** to save the settings and exit the page.
- If you want to configure more channels, click **Save** to save your current settings, and then continue your configuration. When it is complete, click **Complete** to save the settings and exit the page.

3.1.2.5.4 Modifying Device Organization

You can move a device from an organization node to another one.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **Basic Config** section, select **Device**.
- <u>Step 2</u> Click 🔚
- <u>Step 3</u> Select a device to be moved, click **Move To**, select the target organization, and then click **OK**.



Figure 3-12 Move a device

Organization	Root			
• < 1	🛉 Add 🖀 Delete 👌 Import 🖄 Export		Zone Settings O Refresh	Device Name/IP Q
<u></u>	ALL Encoder Access Control Video Inter	Move To X		
🔻 📾 Root	🗾 IP Address 💠 Device Name	Search Q tion	Online Status	Operation T
ਜੀ aa ਜੀ test-dms	C 100100.111 17.0	▼ 🖬 Root	Offline Network Exception.	/ =
👻 🛱 Build3	antitian matthat	ф aa		/ Ø 🖬
⇔ vto	E DESIGN AND	ch test-dms > ch Build3	Offline Network Exception.	/ #
tt VTH	MANUAL BUILDING	r		/ Ø 🖬
. ☆ VTS	INSTRUCTOR INSTRUME	⇔ pyf-1		/ e =
pyf-1	Market 1000000		Offline Network Exception.	/ =
	BANKALAN ADDITION		Offline Network Exception.	/ =
	E marata Marata			/ Ø 🛔
	Total of 29 Record(s)	OK Cancel		1 2 🕨 20 💌 Per Page
	+ Add to Device List 🛛 Refresh 🛞 Initialize	● ModifyIP	IP Segment: -	Suitch
	Initialization Status • IP Address	Device Model Po	ort MAC Address	Operation
	 Initialized 	PC-NVR 38	176 1 HL DE ICH.H.	≣

3.1.2.5.5 Changing Device Password

Background Information

You can change device usernames and passwords in batches.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **Basic Config** section, select **Device**.
- <u>Step 2</u> Click 🔂.
- <u>Step 3</u> Select a device, and then click **Change Password**.

<u>0-vr</u>

You can select multiple devices and change their passwords at the same time.

• / 8	+ Add 🝵 Delete	👌 Import 🖆 Export 🛛	🖸 Move To 👩 🏀 Chan	te Password 🛛 🕥 Time 2	lone Settings O Refre		Device Name/IP
	All Encoder A		om ANPR Device Vic				
🕇 🕅 Root	IP Address	Device Name	Device Type	- Organization	Online Status	· Offline Reason	Operation T
rin aa	TROMANDS				Offline	Network Exception.	/ =
📩 test-dms	in summer	3 Set Password in Batches		× root			/ 0 i
to VTO		Set Password in Batches		test-dms		Network Exception.	/ 1
🕁 VTH		Old Password:		root			/ 6 8
th v⊺s th ()≡				aa			/ 8 B
ra pyf-1				aa		Network Exception.	/ #
				root		Network Exception.	× #
	E Markanan	Confirm Password:		root			/ 0 1
	Total of 29 Record(s)						1 2 • 20 • Per P
			CK Cance				
	+ Add to Device List C	Refrest Contrainze	Modity IP		IP Segm	int:	- Search
	Initialization Stat	us 👻 IP Address	Cevice M	odel Por	t	MAC Address	Operation
	Initialized		PC-NVR		76	10.00.000.00	

Figure 3-13 Change device password

<u>Step 4</u> Enter the old and new passwords, and then click **OK**.

3.1.2.6 Logging in to Device Webpage

After a device is added to the platform, you can click stopping to go to the webpage of the device. The platform supports accessing the webpage of a device through the HTTPS protocol. If you want



to use this function, you must complete the following steps. For details procedures on the device webpage, see the user's manual of the device.

- 1. Log in to the webpage of the device, and then download the trusted CA root certificate.
- 2. Double-click the certificate, and then click Install Certificate.
- 3. Select **Current User**, and then click **Next**.

÷	- 😺 Certificate Import Wizard	×
	Welcome to the Certificate Import Wizard	
	This wizard helps you copy certificates, certificate trust lists, and certificate revocation lists from your disk to a certificate store.	
	A certificate, which is issued by a certification authority, is a confirmation of your identity and contains information used to protect data or to establish secure network connections. A certificate store is the system area where certificates are kept.	
	Store Location © Current User O Local Machine	
	To continue, click Next.	
	Next Cancel	

4. Store the certificate to Trusted Root Certification Authorities, and then click Next.

		×
÷	Certificate Import Wizard	
	Certificate Store	
	Certificate stores are system areas where certificates are kept.	
	Windows can automatically select a certificate store, or you can specify a location for the certificate.	
	\bigcirc Automatically select the certificate store based on the type of certificate	
	Place all certificates in the following store	
	Certificate store:	
	Trusted Root Certification Authorities Browse	
	Next Cano	el:

- 5. Click Finish.
- 6. On the webpage of the device, create a device certificate, and then apply it.



If the IP address or domain name of the device is in the address bar, you must enter the IP address or domain name of the device in the certificate. If it is the IP address or domain name of the platform, you must enter the IP address or domain name of the platform in the certificate.

3.1.2.7 Exporting Devices

You can export the information (except username and password for login) of all the devices on the DSS client. When you need to switch or configure a new platform, you can quickly add them all by



importing them, but you need to enter the username and password for login again.

 \square

You can export up to 100,000 devices at a time.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **Basic Config** section, select **Device**.
- <u>Step 2</u> Click 🔂.
- <u>Step 3</u> (Optional) Select only the devices that you need.

Figure 3-14 Select a device type

🕈 Add 📄 Delete	e 👌 Import 🔥 Export	🖸 Move To 🛛 🔓 N	Aodify Password 🛛 🔘 Time 2	Zone Settings O Refres	h	Device Name/IP	Q
All Encoder	Access Control Video Interco	om ANPR Device	Video Wall Control				
IP Address	Device Name	Device Type	 Organization 	Online Status	 Offline Reason 	Operation	r 🛛
	10,000,000,000,000	IVSS	face	• Offline	Network Exception.	/ =	
		IPC		• Offline		/ i	
		IVSS	root	• Online		/ Ø 🗎	Ĩ
				• Online		/ ē 🖬	
		DVR		• Offline		/ =	
-				• Offline	Network Exception.	/ =	
		IPC		Online		/ ē 🕯	
		IPC		• Online		/ ē i	
Total of 20 Record(s)						1 20 🔻 Per	Page

Step 4 Click **Export**.

<u>Step 5</u> Enter the password used to log in to the DSS client, encryption password, and range, and then click **OK**.

 \square

You can configure whether to verify the password. For details, see "7.3.1 Configuring Security Parameters".

- The encryption password is used to protect the export file. It consists of 6 uppercase or lower case letters, numbers, or their combination. You need to enter it when using the export file.
- You can select **All** to export all the devices, or **Selected** to export the devices you selected.
- <u>Step 6</u> Select a path on your PC, and then click **Save**.

3.1.2.8 Modifying Device Time Zone

Background Information

Configure device time zone correctly. Otherwise you might fail to search for recorded video.

 \square

If a device is accessed through ONVIF and the ONVIF version is earlier than 18.12, the device DST cannot be edited on the platform. You can only edit manually.

Procedure

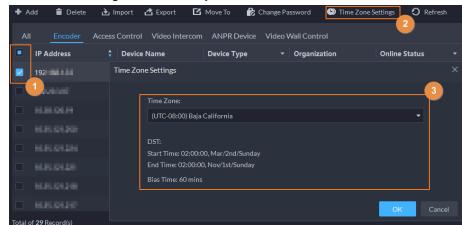
Step 1 Log in to the DSS Client. On the Home page, click 🔊, and then in the Basic Config

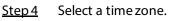


section, select **Device**.

- Step 2 Click 🔂.
- <u>Step 3</u> Select a device, and then click **Time Zone Settings**.

Figure 3-15 Modify device time zone





Step 5 Click OK.

3.1.3 Binding Resources

The platform supports binding resources for linked actions. You can link a video channel with an alarm input channel, ANPR channel, access control channel or another video channel, so that you can view the associated video for alarm, face and other businesses.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **Basic Config** section, select **Device**.
- <u>Step 2</u> Click 📟.
- <u>Step 3</u> Select a channel, and then click **Modify**.



Figure 3-16 Bind channel

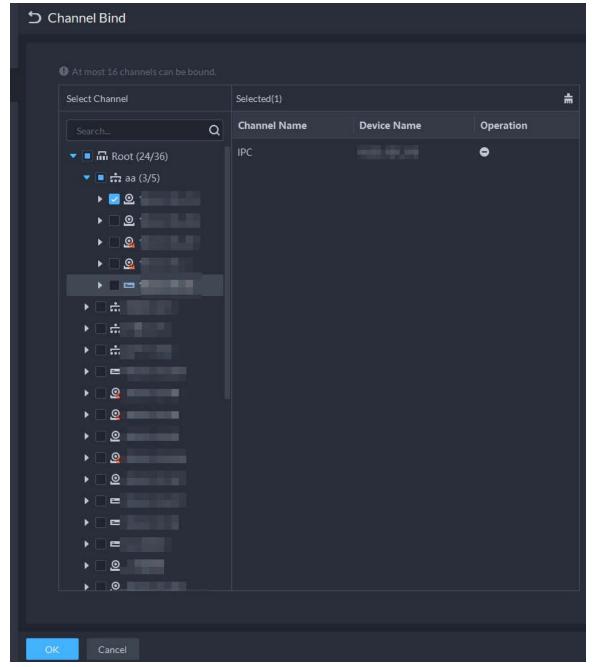
Config		cam	era1					
Search	Q	Devic		Vid	eo Channel Type:			
1	~			Bull	et Camera			
Root		storage ratio		p	Sercent type		operation	
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▼ 🖴								
9ª arrest.		Recording Retrieva	Add Retriev	val Plan				
P ranaah								
₽ ■		Recording Retrieva	I Duration			Operation		
9 annal								
₽ ⊨								
₽								
		Video Storage Conf	ig 🕜 Modif					
		Recording Type		Retention Pe	eriod (Days)		Operation	
		General Video						
		Alarm Video						
			2					
		Channel Binding N						
		Channel Name		Device Nam	e		Operation	
.								
D								

<u>Step 4</u> Select a channel, and then click **OK**.



Multiple channels can be selected.

Figure 3-17 Select the channels you want to bind to the camera



Step 5 Click OK.

3.1.4 Adding Recording Plan

Background Information

Configure recording plans for video channels so that they can record videos accordingly. You can configure 2 types of recording plans for a channel. One is general recording plan, and a device will continuously record videos during the defined period. The other is motion detection recording plan, and a device will only continuously record videos when motion is detected.



3.1.4.1 Adding Recording Plan One by One

Add a center recording plan or device recording plan for a channel, so that it can make general or motion detection videos within the defined period.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **Basic Config** section, select **Device**.
- Step 2 Click 📟.
- <u>Step 3</u> Select a channel, and then configure a recording plan.
 - Configure a center recording plan.
 - 1) Click Add Recording Plan next to Center Recording Plan.

Figure 3-18 Add a center recording plan (1)

	Config	IPC						
-	Search	Desta Name	Video Chunnel Type Buliet Camera					
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	• <u>®</u> doted Pirc	Event Info Event Confg						1
	► th gnz	Event Type	Priority	Time Template	Tag	Action	Remarka	Operation
	▶ 由 ac ▶ 击 empty ▶ 击 empty-other							
	▶ 由 === ▶ 由 ==	Center Recording Plan	Recording Plan					
	• distances a constant	Recording Time	Stream	Туре	Remarks			Operation
	• 🕶 123456 • 🖼 3							
	 	Device Recording Plan Add						
	• 💇 ipc123	Recording Time	Stream	1 Туре	Remarks			Operation
	• 😋 86885 🕶 1234							

2) Configure the parameters, and then click **OK**.

Table 3-1	Parameter	description
-----------	-----------	-------------

Parameter	Description	
Enable	Turn on or off the recording plan.	
Position	Videos will be stored on the server by default. It cannot be changed.	
Recording Type	 General recording: The device will continuously record videos within the defined periods. Motion detection recording: The device will continuously record videos within the defined periods on motion detections. 	
Select Main Stream, Sub Stream 1 or Sub Stream 2.Stream TypeVideos recorded on the main stream will have the best quality, bu require more storage.		
Remarks	Customizable description for the recording plan.	
Recording Time	Select a default time template or click Create Time Template to add a new time template. See "3.1.5 Adding Time Template".	

3) Click **OK**.

• Configure a device recording plan.



\square

The platform can obtain and display the recording plan that has been configured on EVS of the latest versions. You can check if recording plan are obtained and displayed on the page to know if your EVS is of the latest version.

1) Click Add Recording Plan next to Device Recording Plan.

Figure 3-19 Add a device recording plan (1)

≡	Config		IPC						
6 3	Search			Video Channel Buliet Camera					
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	ו לה gnz	Event Type		Priority	Time Template	Tag	Action	Remarka	Operation
	 ☆ ch ac ☆ ch anpty ☆ ch empty-other ☆ ch 	Center Reci	ording Plan Add Record						
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	 ● @ entent ● @ MPT ● @ metal 		ording Plan Add Recove						
	▶ @ ipc123 ▶ ◘ 66665	Recording	Time		Stream Type	Remarks			Operation
	1234								

- 2) Configure the parameters, and then click **OK**.
 - Table 3-2 Parameter description

Parameter Description				
Enable	Turn on or off the recording plan.			
Position	Videos will be stored on the device by default. It cannot be changed.			
Stream Type	The device will make recordings using the main stream by default. It cannot be changed.			
Remarks	Customizable description for the recording plan.			
RecordingTime	Select a default time template or click Create Time Template to add a new time template. See "3.1.5 Adding Time Template".			

Related Operations

• Enable/disable a recording plan

means that the plan has been enabled. Click the icon and it becomes **means**, and it means that the plan has been disabled.

- Click E: Copy the recording plan to other channels.
- Edit a recording plan

Click 🖉 of corresponding plan to edit the plan.

• Click 📋 to delete recording plans one by one.

3.1.4.2 Adding Center Recording Plans in Batches

Add a center recording plan of general or motion detection videos for multiple channels at the same



time.

3.1.4.2.1 General Recording Plan

Procedure

<u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **App Config** section, select **Storage Plan** > **Recording Plan**.

Figure 3-20	Center	recording plan
riguic 5 20	Cuntur	recording plan

← Menu	Organization	Root									
Recording Plan	Search	+ A0	d Recording Plan 🛛 🗎								Q
			Channel Name	Device Name	Organization	Position	Recording Time	Stream Type	Remark	Operation	
	Δ weak many Δ many many Δ many		Channell Channell Inn 1784 - PTT Comura PTTT Comura		5480877 pri 449982 01						per Page

<u>Step 2</u> Select General Recording Plan > Add General Recording Plan.

<u>Step 3</u> Configure the parameters, and then click **OK**.

Parameter	Description
Enable	Turn on or off the recording plan.
Position	Videos will be stored on the server by default. It cannot be changed.
Stream Type	Select Main Stream , Sub Stream 1 or Sub Stream 2 . Videos recorded on the main stream will have the best quality, but they require more storage.
Remarks	Customizable description for the recording plan.
Recording Time	Select a default time template or click Create Time Template to add a new time template. See "3.1.5 Adding Time Template".
Recording Channel	Select the channels you want to add the recording plan for.

3.1.4.2.2 Motion Detection Recording Plan

Procedure

<u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **App Config** section, select **Storage Plan** > **Recording Plan**.



Figure 3-21 Center recording plan

← Menu	Organization	Root	i.								
Recording Plan	si Serch. Q	+ 40	d Recording Plan 🛛 🗎								Q
			Channel Name	Device Name	Organization	Pesition	Recording Time	Stream Type	Remark	Operation	
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	由 in energy Male and Party 由 INVSS									- / •	
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	 · 由:species · · · · · · · · · · · · · · ·									- / 1	
		Total 5								1 20	· per Page

Step 2Select Motion Detection Recording Plan > Add Motion Detection Recording Plan.Step 3Configure the parameters, and then click OK.

Parameter	Description
Enable	Turn on or off the recording plan.
Position	Videos will be stored on the server by default. It cannot be changed.
Recording Type	 General recording: The device will continuously record videos within the defined periods. Motion detection recording: The device will continuously record videos within the defined periods on motion detections.
Stream Type	Select Main Stream , Sub Stream 1 or Sub Stream 2 . Videos recorded on the main stream will have the best quality, but they requires more storage.
Remarks	Customizable description for the recording plan.
Recording Time	Select a default time template or click Create Time Template to add a new time template. See "3.1.5 Adding Time Template".
Recording Channel	Select the channels you want to add the recording plan for.

Related Operations

• Enable/disable a recording plan

means that the plan has been enabled. Click the icon and it becomes **means**, and it means that the plan has been disabled.

- Edit a recording plan
 - Click 🖉 of corresponding plan to edit the plan.
- Edit a recording plan

Click 🖉 of corresponding plan to edit the plan.

- **i** Delete: Select multiple channels, and then delete them at the same time.
- **VENABLE** and **Disable**: Select multiple channels, and then enable or disable them at the same time.



3.1.5 Adding Time Template

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **Basic Config** section, select **Device**.
- Step 2 Click 📟.
- <u>Step 3</u> Select a channel, and then add a recording plan.
- <u>Step 4</u> In the **Recording Time** drop-down list, select **Create Time Template**.
 - Creating time template in other pages is the same. This chapter takes creating time template in **Record Plan** page as an example.

lime Template Name	Time te	mplate details												
All-Period Template	Time Ter	nplate Name:								Copy Fr	om:			
Weekday Template														
Weekend Template														
+ Create Time Template														
To create time remplate	භ	(00:00 02:00	04:00	06:00	08:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	
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	ප	Friday:												¢
	Θ	Saturday:												¢
	ම	Sunday:												ø

Figure 3-22 Create time template

 $\underline{Step 5} \qquad Configure name and periods. You can set up to 6 periods in one day.$

Select the **Copy From** check box, and then you can select a template to copy from.

- On the time bar, click and drag to draw the periods. You can also click 🔄, and then draw the periods for multiple days.
- You can also click 🔯 to configure periods.

```
Step 6 Click OK.
```

3.1.6 Configuring Video Retention Period

For videos stored on the platform, you can configure video retention period. When the storage space runs out, new recorded videos will cover the oldest videos automatically.

Procedure

- Step 1Log in to the DSS Client. On the Home page, click , and then in the Basic Configsection, select Device > Device Config.
- <u>Step 2</u> Select a camera, and then click **Modify**.



Figure 3-23 Go to recording storage configuration page

	-			
Config	38			
Search	Device Name:			
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9	Device Recording Plan Add Recording			
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Dein				
D III -				
B	Recording Retrieval Add Retrieval Place			
E	Backup Storage for Retrieval	Conditions to Execute Plan	Stream Type	Operation
Dela				1. 255 (2004) 207
• @				
• <u>@</u>				
• <u>@</u>	Video Storage Config 🔍 Modify			
• @ 1000.000.000				
• © =====	Recording Type	Retention Period (Days)		Operation
• 🔍 estillatio				-
+ @ 10.1-11.50000000				
• 🧕	Motion Detection Video			
• 0 100				

<u>Step 3</u>

Click c and the storing of different type of video, and then configure the retention period.

 \square

For the free version of Express, the retention period cannot be more than 7 days. If you need more than 7 days, you need to purchase an official version.

Step 4 Click **OK**.

Related Operations

Enable/disable record plan

In the operation column, easily means that the recoding storage configuration has been enabled. Click the icon and it becomes easily meaning that the configuration has been disabled.

3.1.7 Configuring Events

You need to set up the event configuration on a device or its channels to receive alarms on the platform.

Procedure

<u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **Basic Config** section, select **Device**.

<u>Step 2</u> Click 🔚

Select a channel or a device, and then click Event Config.
 Events that can be configured are different for different types of devices. If you select
 Device, you can only configure general events. If you select Channels, various events

supported by different types of channels will be displayed.



Figure 3-24 Go to the event configuration (device)

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	Q	IP Address;	Saftware 2.600.00					
교 Root ▶ 슈 ▶ 슈		Config						
 		Parameter Setting						
		Event Info Event Config						
• -		Event Type	Priority	Time Template	Tag	Action	Remarks	Operation
> @ > =								
• <u>.</u>								
·								

Figure 3-25 Go to the event configuration (channel)

Config		IPC						
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★ 由 1000	Config							
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 Im stytest 	Syncree	spie counting						
• <u>2</u>								
 ► □ ► 0.123 								
▼ 🖾 123	Event Info	vent Config						
IPC UPC	Event Type		Priority	Time Template	Tag	Action	Remarks	Operation
🗗 IPC-qiuji								
🗗 IPC 🕀 IP PTZ Camera								

<u>Step 4</u> Configure events. For details, see "4.1 Configuring Events".

3.1.8 Configuring Device Parameters

Configure the camera properties, video stream, snapshot, video overlay, and audio configuration for the device channel on the platform. The platform only supports configuring the channels added via IP in Dahua protocols.

 \square

Device configuration might vary depending on the capacities of the devices. The pages in the section are for reference only, and might differ from the actual ones.

3.1.8.1 Configuring Camera Properties

Configure camera image parameters for the **Daytime**, **Night**, and **Regular** modes to ensure high image quality.

3.1.8.1.1 Configuring Property Files

Procedure

<u>Step 1</u>	Log in to the DSS Client. On the Home page, click 🛛 and then in the Basic Config
	section, select Device > Device Config .

<u>Step 2</u> Select a device, and then click **Parameter Setting**.



Figure 3-26 Device configuration

Config Search Q	•			Address:			é
▼ 🖬 Root							
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	Config						
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► 📅 TPC							
▶ 🚓 IPC		Ð					
	Event Info Event Con						
	Event Type	Priority	Time Template	Tag	Action	Remarks	Operation

<u>Step 3</u> Select Camera > Camera > Camera Properties.

<u>0-vr</u>

- To go to the device web page, you can click Link to Device Webpage.
- A PTZ control panel will be displayed if the device has PTZ function.

Icon/Function	Description
Arrowkeys	Click it and the camera will rotate to the corresponding direction.
8	Adjust the speed. The higher the value, the faster the camera rotates.
9	Zoom in and out.
8.8	Adjust the focus level.
0 \$	Adjust the aperture.

Table 3-5 PTZ operation

<u>Step 4</u> In the **Profile Management** drop-down list, select a mode.

The parameters you configured will be applied to the mode.

<u>Step 5</u> Click **Image**, and then configure the parameters.

Table 3-6 Parameter description

Parameter	Description
Style	You can set the image style to be Standard , Soft , or Vivid .
Brightness	You can adjust the overall image brightness through linear tuning. The higher the value, the brighter the image and vice versa. If this value is set too high, images tend to look blurred.



Parameter	Description
Contrast	Adjusts the contrast of the images. The higher the value, the bigger the contrast between the bright and dark portions of an image and vice versa. If the contrast value is set too high, the dark portions of an image might become too dark, and the bright portions might be over-exposed. If the contrast value is set too low, images tend to look blurry.
Saturation	Adjusts color shade. The higher the value, the deeper the color and vice versa. The saturation value does not affect the overall brightness of the images.
Sharpness	Adjusts the edge sharpness of images. The higher the value, the sharper the image edges. Setting this value too high might result in noises in images.
Gamma	Changes image brightness by non-linear tuning to expand the dynamic display range of images. The higher the value, the brighter the image and vice versa.

<u>Step 6</u> Click **Exposure**, and then configure the parameters.

If the device that supports real wide dynamic (WDR) has enabled WDR, long exposure is not available.

Table 3-7 Parameter description

Parameter	Description		
	• 50Hz and 60Hz : With the 50/60 Hz household power supply, exposure can be automatically adjusted based on the brightness of the scene to ensure		
Anti-flicker	that no horizontal stripe appears on the image.		
	 Outdoor: In an outdoor scenario, you can switch the exposure modes to achieve your target effect. 		



Parameter	Description
	The following options are available for different exposure modes of the camera:
	• Auto : Auto tuning of the image brightness based on the actual environment.
	• Gain Priority : Within the normal exposure range, the device adjusts itself automatically first in the preset range of gains as per the brightness of the
	scenes. If the image has not achieved the target brightness when the gains hit the upper limit or lower limit, the device adjusts the shutter
	automatically to achieve the best brightness. The gain priority mode also allows for adjusting the gains by setting up a gain range.
	• Shutter Priority : Within the normal exposure range, the device adjusts itself automatically first in the preset range of shutter values as per the
Mode	brightness of the scenes. If the image has not achieved the target brightness when the shutter value hits the upper limit or lower limit, the
	device adjusts the gains automatically to achieve the best brightness.
	 Aperture Priority: The aperture is fixed at a preset value before the device adjusts the shutter value automatically. If the image has not achieved the
	target brightness when the shutter value hits the upper limit or lower limit,
	 the device adjusts the gains automatically to achieve the best brightness. Manual: You can set up the gains and shutter values manually to adjust
	image brightness.
	• If the Anti-flicker is set to Outdoor, you can set the Mode to Gain Priority
	 or Shutter Priority. Different devices have different exposure modes. The actual pages might be different.
3D NR	Reduces the noises of multiple-frame (at least two frames) images by using inter-frame information between two adjacent frames in a video.
Grade	When 3D NR is On , you can set up this parameter.
	The higher the grade, the better the noise reduction effect.

<u>Step 7</u> Click **Backlight**, and then configure the parameters.

- Turning on **Backlight Correction** avoids silhouettes of relatively dark portions in pictures taken in a backlight environment.
- Turning on **Wide Dynamic** inhibits too bright portions and makes too dark portions brighter, presenting a clear picture overall.
- Turning on **Glare Inhibition** partially weakens strong light. This feature is useful in a toll gate, and the exit and entrance of a parking lot. Under extreme lighting conditions such as deep darkness, this feature can help capture the details of the faces and license plates.



Table 3-8 Parameter description

Backlight Mode	Description
Backlight Correction	 When selecting the Default mode, the system adjusts exposure automatically to adapt to the environment and make the images taken in the darkest regions clear. When selecting the Custom mode and setting up a custom region, the system exposes the selected custom region to give the images taken in this region proper brightness.
HLC	Glare inhibition. The system inhibits the brightness in bright regions and reduces the size of the halo, to make the entire image less bright.
Wide Dynamic	To adapt to the environmental lighting conditions, the system reduces the brightness in bright regions and increases the brightness in dark regions. This ensures clear display of objects in both bright and dark regions.
SSA	The system adjusts image brightness automatically based on the environmental lighting conditions to show image details clearly.

<u>Step 8</u> Click **WB**, and then configure the parameters.

The WB feature can be used to display colors more accurately. For example, white objects will appear consistently white in various lighting conditions.

WB Mode	Description
Auto	The system automatically corrects different color temperatures to ensure normal display of image colors.
Natural Light	The system automatically corrects the scenes without manmade lighting to ensure normal display of image colors.
Street Lamp	The system automatically corrects the outdoor scenes at night to ensure normal display of image colors.
Outdoor	The system automatically corrects most outdoor scenes with natural lighting and artificial lighting to ensure normal display of image colors.
Manual	You can set up the red gains and blue gains manually for the system to correct different color temperatures in the environment accordingly.
Regional Custom	You can set up custom regions and the system corrects different color temperatures to ensure normal display of image colors.

<u>Step 9</u> Click **Day/Night**, and then configure the parameters.

You can set up the display mode of images. The system can switch between the **Colored** mode and the **Black&White** mode to adapt to the environment.



Parameter	Description
Mode	The Day/Night settings are independent of the Config Files settings.
	 Colored: The camera displays colored images. Auto: The camera automatically selects to display colored or black&white images based on the environmental brightness. Black&White: The camera displays black&white images.
Sensitivity	Defines the sensitivity of the camera in switching between the Colored mode and the Black&White mode. You can set up this parameter when the Day & Night mode is set to Auto .
Delayed recording	Defines the delay of the camera in switching between the Colored mode and the Black&White mode. The lower the delay, the faster the switch between the Colored mode and the Black&White mode.

Table 3-10 Parameter description

Step 10 Click **Defog**, and then configure the parameters.

Image quality drops when the camera is placed in the foggy or hazy environment. You can turn on **Defog** to make the images clearer.

Defog Mode	Description
Manual	You can set up the defog intensity and the atmospheric light intensity manually. The system adjusts the image quality as per such settings. The atmospheric light intensity mode can be set to Auto or Manual for light intensity adjustment.
Auto	The system adjusts the image quality automatically to adapt to the surrounding conditions.
Off	Defog disabled.

<u>Step 11</u> Click **IR Light**, and then configure the parameters.

Table 3-12 Parameter description

IR Light Mode	Description
Manual	You can set up the IR light brightness manually. The system provides light for images as per the preset IR light brightness.
SmartIR	The system adjusts the brightness of the light to adapt to the surrounding conditions.



IR Light Mode	Description					
Zoom Priority	 The system adjusts the illuminator according to the lighting condition. When the environment turns dark, the low beam will be used first. If the low beam is not enough, the high beam will be used. When the environment turns bright, the high beam will be adjusted or turned off first. If it is still too bright, the low beam will be adjusted or turned off. When the focal length is adjusted to a wide angle value, the high beam will not be used to avoid overexposure on the objects near the camera, but you can manually adjust the brightness of the low beam by reducing or increasing the light compensation value. 					
Off	IR light disabled.					

Step 12 Click **Apply**.

Repeat the steps above if you want to set up the configuration files for other modes.

3.1.8.1.2 Applying Configuration Files

Apply the image parameters as configured in the pre-defined periods.

Procedure

- Step 1 Log in to the DSS Client. On the **Home** page, click **N**, and then in the **Basic Config** section, select **Device**.
- <u>Step 2</u> Click 📟.
- <u>Step 3</u> Select a device, and then click **Device Config**.

Figure 3-27 Device configuration

Config							e
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	Config						
🕨 Å root	Parameter Set	ting					
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▶ 👬 IPC		Q					
	Event Info Event Con						
	Event Type	Priority	Time Template	Tag	Action	Remarks	Operation

Step 4

- Click **Profile Management**, and set configuration files.
 - When the mode is set to **Regular**, the system monitors the objects as per regular configurations.



Figure 3-28 Set configuration files as regular

Camera	Properties Profile Management
	Mode:
	Regular Full Time Scheduled
• More Configuration	
Apply Cancel	

• When the mode is set to **Full Time**, you can set **Always Enable** to **Daytime** or **Night**. The system monitors the objects as per the **Always Enable** configurations.

Figure 3-29 Set configuration files as full time

Camera 🔹	Properties Profile Management	
	Mode:	
Video	Regular Sull Time	Scheduled
	Always Enable:	
	Daytime 🔻	
O More Configuration		
Apply		

• When the mode is set to **Shift by time**, you can drag the slider to set a period of time as daytime or night. For example, you can set 8:00–18:00 as daytime, 0:00–8:00 and 18:00–24:00 as night. The system monitors the objects in different time periods as per corresponding configurations.



Camera 🔹	Properties Profile Manageme	nt
Camera		
Video	Mode: Regular Full Time	Scheduled
		C
	Time Span:	
	0 1 2 3 4 5 6 7 8 9 10 1 Davtime Night	1 12 13 14 15 16 17 18 19 20 21 22 23
	Daytime 📕 Night	
← More Configuration		
Apply Cancel		
	C 11	

Figure 3-30 Set configuration files as shift by time

<u>Step 5</u> Click **OK** to save the configurations.

3.1.8.2 Video

Set video parameters such as video stream, snapshot stream, overlay, ROI and saving path.

3.1.8.2.1 Video Stream

Set the video stream parameters such as stream type, encoding mode, resolution, frame rate, stream control, stream, I frame interval, SVC, and watermark.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **Basic Config** section, select **Device**.
- <u>Step 2</u> Click 🚟.
- <u>Step 3</u> Select a device, and then click **Device Config**.



Figure 3-31 Device configuration

Config							ê
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> tin Dot		Ö					
	Event Info Event Conf	ig					
	Event Type	Priority	Time Template	Tag	Action	Remarks	Operation

<u>Step 4</u> Select **Camera** > **Video** > **Video** Stream.

Step 5 Set Video Stream.

Figure 3-32 Configure video stream settings

Camera 👻		
Camera		
Video		
1		
- Mi	ain Stream Sub	Stream
		Video Settings
	Motion Detection +	
	Encoding Mode:	Stream Type
		Sub Stream 1 •
		Encoding Mode
		H264H +
		Resolution
	VBR +	
	Image Quality.	
		CBR •
		Stream
	1024Kbps +	22402ps •
	Reference Stream	
		224-4099Kbps
	Audio Settings.	Audio Settings
Contract		
Apply Cancel		

The default values of streams are for reference only, and the actual pages might be different.

Table 3-13 Video stream parameters

Parameter	Description
Video Settings	Enable or disable Sub Stream parameters.



Parameter	Description	
Encoding Mode	 H.264: H.264B (Baseline Profile), H.264 (Main Profile), H.264H (High Profile). Bandwidth consumption level at the same image quality: H.264B > H.264 > H.264H. H.265: Main Profile encoding, consuming less bandwidth than H.264 at the same image quality. MJPEG: Frame-by-frame compression, requiring large bandwidth and high video stream to ensure clear image. To achieve better video image, it is recommended that you select the largest stream value from the given options. SVAC (Surveillance Video and Audio Coding): It is a standard for security surveillance applications in China. 	
Smart Codec	Turning on Smart Codec will compress the images to save storage space. When smart code is on, the device does not support sub stream 2, ROI, IVS event detection.	
Resolution	The resolution of the videos. Different devices might have different max resolutions.	
FPS	The number of frames per second in a video. The higher the FPS, the more distinct and smooth the images.	
Bit Rate Control	 The following video stream control modes are available: BRC_CBR: The bit stream changes slightly around the preset value BRC_VBR: The bit stream changes according to the monitored scenes. When the Encode Mode is set to MJPEG, BRC_CBR remains the only option for stream control. 	
lmage Quality	This parameter can be set only when Stream Ctrl is set to BRC_VBR. Video image quality is divided into six grades: Best, Better, Good, Bad, Worse and Worst.	
Stream	This parameter can be set only when Stream Ctrl is set to BRC_CBR . You can select the proper stream value from the drop-down box based on actual scenarios.	
Reference Stream	The system will recommend an optimal range of stream values to users based on the resolution and FPS set up by them.	
l Frame Interval	Refers to the number of P frames between two I frames. The range of I Interval changes with FPS. It is recommended to set the I Interval to be two times as the FPS value.	
SVC	FPS is subject to layered encoding. SVC is a scalable video encoding method on time domain.	



Parameter	Description
Watermark	Turn on Watermark to enable this feature. You can verify the watermark characters to check whether the video has been tempered or not. Characters for watermark verification. The default value is DigitalCCTV.

Step 6 Click Apply.

3.1.8.2.2 Snapshot Stream

Set snapshot parameters, including snapshot type, picture size, picture quality, and snapshot speed.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **Basic Config** section, select **Device**.
- <u>Step 2</u> Click 📟.
- <u>Step 3</u> Select a device, and then click **Device Config**.

Figure 3-33 Device configuration

Config							é
Search Q							
▼ 🖬 Root							
🔻 🚓 ivss							
	Config		1				
🕨 Å root	Parameter Sett	ing					
F 🖶 TPC							
► 📅 IPC							
	Event Info Event Cont						
	Event Type	Priority	Time Template	Tag	Action	Remarks	Operation

<u>Step 4</u> On the **Device Config** page, select **Camera** > **Video** > **Snapshot Stream**.



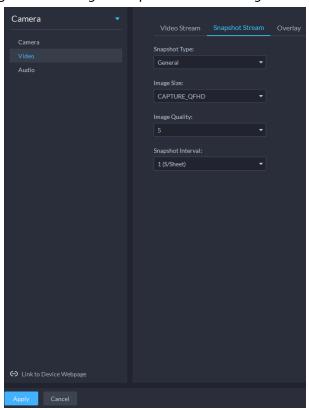


Figure 3-34 Configure snapshot stream settings

Step 5 Set Snapshot Stream.

Table 3-14 Snapshot stream parameters

Parameter	Description					
	It includes General and Trigger.					
	 Regular refers to capturing pictures within the time range set up in a time table. 					
Snapshot Type	 Trigger refers to capturing pictures when video detection, audio detection, IVS events, or alarms are triggered, provided that video detection, audio detection, and corresponding snapshot functions are enabled. 					
lmage Size	Same as the resolution in Main Stream .					
Image Quality	Sets up image quality. It is divided into six grades: Best, better, good, bad, worse and worst.					
Snapshot	Sets up the frequency of snapshots.					
Interval	Select Custom to manually set up the frequency of snapshots.					
Link to Device Webpage	Go to the web page of the device.					

Step 6 Click OK.

3.1.8.2.3 Overlay

Set video overlay parameters, including tampering, privacy mask, channel title, period title,



geographic position, OSD, font, and picture overlay.

Procedure

- Step 1 Log in to the DSS Client. On the **Home** page, click **N**, and then in the **Basic Config** section, select **Device**.
- <u>Step 2</u> Click 📟.
- <u>Step 3</u> Select a device, and then click **Device Config**.

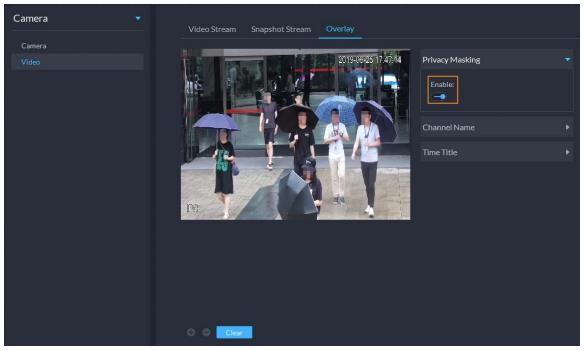
Figure 3-35 Device configuration

Config	e
Search Q	IP Address:
▼ 品 Root	
🔻 🚓 ivss	
	Config
🕨 👗 root	Parameter Setting
► 📅 TPC	
PC 🚓 ال	
	Event Info Event Config
	Event Type Priority Time Template Tag Action Remarks Operation

<u>Step 4</u> On the **Device Config** page, select **Camera** > **Video** > **Overlay**.

<u>Step 5</u> Set privacy mask.

Figure 3-36 Overlay



- 1) Click the **Privacy Mask** tab.
- 2) Click e to enable the function.
- 3) Click 🔁 to adjust the size and position of the area frame. You can add 4 area frames at most.
- <u>Step 6</u> (Optional) Set the channel name to display on the video.
 - 1) Click the **Channel Name** tab.



Figure 3-37 Set channel name

Device Config		
Camera 🔻	Video Stream Snapshot Stream Overlay	
Camera		L,
Video	Privacy Mask 🕨	
Audio	Channel Name 🔻	
	Enable:	
	Channel Title:	
	3 4	
	Period Title	
	OSD Overlay	
	People Count 🕨	

2) Click **Control** to enable the function.

3) Adjust the size and position of the name frame.

- <u>Step 7</u> (Optional) Set the period title to display on the video.
 - 1) Click the **Period Title** tab.

Figure 3-38 Set period title

Config		
Camera 🔹	Video Stream Snapshot Stream Overlay	
Camera		
	Privacy Mask	
Audio	Channel Name	
	Period Title	
	Enable:	
	Week Display:	
	OSD Overlay	
	People Count	

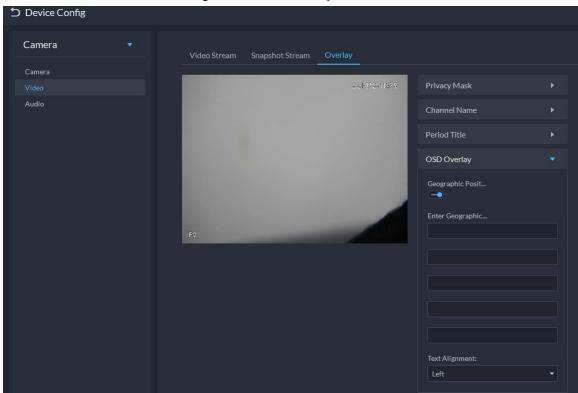
- 2) Click **C** to enable the function.
- 3) (Optional) Select **Week Display** so that the week information displays in video images.
- 4) Adjust the size and position of the frame.

Step 8 OSD overlay.

- 1) Enable **Geographic Position**, and then enter the geographic information of the camera.
- 2) Select a text alignment method.



Figure 3-39 OSD overlay



Step 9 Click **OK**.

3.1.8.3 Audio

Set audio parameters such as encoding mode, sampling frequency, audio input type, and noise filtering.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **Basic Config** section, select **Device**.
- <u>Step 2</u> Click 📟.
- <u>Step 3</u> Select a device, and then click **Device Config**.

Figure 3-40 Device configuration

Config							e
Search Q							
▼ 🖬 Root							
🔻 📅 ivss							
	Config						
🕨 🔥 root	Parameter Sett	ing					
► 📅 TPC							
► 🛱 IPC		Ö					
	Event Info Event Conf	ig					
	Event Type	Priority	Time Template	Tag	Action	Remarks	Operation

<u>Step 4</u> On the **Device Config** page, select **Camera** > **Audio**.

<u>Step 5</u> Set parameters.



Figure 3-41 Configure audio settings

Camera 🔹	Audio		
Camera Video	Encoding	Attributes	
Audio	Main Stream	Audio Input Type:	
	Audio Settings:	Linein +	
		Noise Filtering:	
	Encoding Mode:	Close +	
	G.711A 👻		
	Sampling Frequency	Microphone Volume	
		Spoaker Volume:	
	Sub Stream		
	Audio Settings:		
	II-		
	Encoding Mode:		
	G 711A 👻		
	Sampling Frequency:		
	8k +		
Apply Cancel			

Table 3-15 Audio parameters

Parameter	Description					
	Audio settings can be enabled when video has been enabled.					
Audio Settings	After disabling Audio Settings in Main Stream or Sub Stream sections, the network transmits a mixed flow of videos and audios. Otherwise, the transmitted flow only contains video images.					
Encoding Mode	The encoding modes of audios include G.711A, G.711Mu, AAC, PCM, and G.726.					
	The preset audio encode mode applies to audio talks.					
Sampling Frequency	Available audio sampling frequencies include 8K, 16K, 32K, 48K, and 64K.					
	The following types of audios connected to devices are available:					
Audio Input Type	 Lineln: The device must connect to external audio devices. 					
	 Mic: The device does not need external audio devices. 					
Noise Filtering	After enabling noise filtering, the system automatically filters out the noises in the environment.					
	Adjusts the microphone volume.					
Microphone						
Volume	Only some devices support adjusting microphone volume.					
	Adjusts the speaker volume.					
Speaker volume						
	Only some devices support adjusting speaker volume.					

Step 6 Click Apply.



3.1.9 Synchronizing People Counting Rules

If you create, edit or delete people counting rules on a device, you have to manually synchronize them to the platform.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **Basic Config** section, select **Device**.
- <u>Step 2</u> Click 📟.

<u>Step 3</u> Select a channel, and then click **Sync People Counting Rules**.

Figure 3-42 Synchronize people counting rules from the device

Config			IPC					
	Q			Video Cha Bullet Cam				
▼ 🖬 Root								
🕨 📅 FhbTest								
▶ 👬 zzy		Config		_				
▶ 👬 pyf		AI Rule C	Config	Sync Peo	ople Counting			
🕨 🧕 testIPC								
▶ 🖸								
▶ 🛃 g_door								
🕨 🔜 82vto								
VTO78		Event Info E	vent Config					
🕨 🖏 246crk		Event Type		Priority	Time Template			
▼ <u>©</u>		Motion Detect	ion	High	All-Period Template			
P IPC								
		Recording Inf	o Add Recording P	lan				
		Storage Path		Time Template	Stre			

<u>Step 4</u> Click **Sync Rules**, and then the system prompts **Synchronization Complete**.

Figure 3-43 Synchronize people counting rules from the device

nc People Counting Rules		Prompt Message Synchronization complete.
Sync Rules		
Rule Name	Rule Type	
	Tripwire People Counting Rule	

3.2 Adding Role and User

Users of different roles have different menus and permissions of device access and operation. When creating a user, assign a role to it to give the corresponding permissions.



3.2.1 Adding User Role

A role is a set of permission. Classify users of the platform into different roles so that they can have different permissions for operating the devices, functions and other system resources.

Background Information

- Super administrator: A default rule that has the highest priority and all the permissions. This role cannot be modified. A super administrator can create administrator roles and common roles. The system supports 3 super administrators at most.
- Administrator: A default rule that cannot be modified and has no permission of authorization, backup and restoring. An administrator can create other administrators.
- Common role: A common role that has no permission of authorization, backup and restoring, user management, and device management.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **Basic Config** section, select **User**.
- Step 2 Click 🛃
- <u>Step 3</u> Click **Add**, set role information, and then select device and control permissions and assign the rule to users.

DSS	A Home	A Use	4 Device	1					0101	10:10:55	- @ X
		ち Add Role									
Role Role User		Basic Info Role Names									
		Permissions									
			٩	Surth, Q	٤	- Section	۹				
		 Groot N draw N		Al Vice Payback Necerol Lock Record Lock Record Tag Pr2 Audo Suit Cophare Images Save Visios to Local PC Privecy Masting		All Add Address Addre					
		LDX Cancel									

Figure 3-44 Add a role

\square

- If a device is not selected under **Device Permissions** or a menu not selected under Menu Permissions, all users assigned with this role will not be able to see the device or menu.
- Click 🔜 of a selected organization. All permissions of subsequently added devices under this organization will also be assigned to users of this role.

Step 4 Click OK.



3.2.2 Adding User

Create a user account for logging in to the platform.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **Basic Config** section, select **User**.
- <u>Step 2</u> Click **Add**, and then configure the user information.

Parameter	Description		
Username	Used to log in to the client.		
Multi-client Login	Allow the user to log in to multiple clients at the same time.		
Password	Lised to log in to the client		
Confirm Password	Used to log in to the client.		
Enable Forced Password Change at First Login	The user is required to change the password at first-time login.		
Enable Password Change Interval	Force the user to change the password regularly.		
Enable Password Expiry Time	The password must be changed after it expires on the defined date.		
PTZ Control Permissions	- of 3 When they operate on the same PT7 camera which is locked at		
Email Address	Used to reset password and receive alarm emails.		
Bind MAC Address	Limit the user to log in from specific computers. One user can be bound to 5 MAC addresses at most.		
Role	Select one or more roles to assign the user permissions, such as which devices are allowed to be operated.		

Step 3 Click OK.

Related Operations

- Click 🔄 to lock user. The locked user cannot log in to the DSS Client and App.
- Click 🚺 to modify information of a user except the username.
- Click 📋 to delete a user.

3.2.3 Password Maintenance

The platform supports modifying user password, and resetting system user password when it is forgotten. Only the system user can reset password. Other users, when their passwords are forgotten, can ask the system user to modify the passwords.



3.2.3.1 Changing Password for the Current User

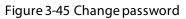
We recommend changing your password regularly for account safety.

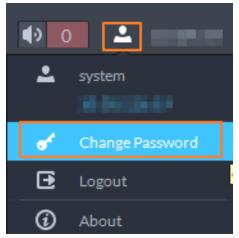
Procedure

<u>Step 1</u>

Log in to the DSS Client, click 🞴 at the upper-right corner, and then select **Change**

Password.





<u>Step 2</u> Enter the old password, new password, and then confirm the new password. Click **OK**.

3.2.3.2 Changing Password for Other Users

Background Information

The system user can change the password for other users without the need to verify the old password.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **Basic Config** section, select **User**.
- Step 2 Click 🛃.
- <u>Step 3</u> Select a user, and then click **Z**.
- <u>Step 4</u> Enable **Change Password**, enter the new password and confirm password, and then click **OK**.

Figure 3-46 Change user info

Modify User		
Basic Info		
Username:	Multi-client Login:	
Change Password	Confirm Password:	
• •••••	•	



3.2.3.3 Resetting User Password

You can reset the password of a user by security questions or email address, but only the system account supports resetting the password by security questions.

Procedure

- <u>Step 1</u> On the login page, click **Forgot password?**.
- <u>Step 2</u> Enter the account that you want to reset the password for, and then click **Next Step**.
- <u>Step 3</u> Select how you want to reset the password.
 - By security questions. This is only applicable to the system account.
 - 1. Click Reset Password through Security Questions.
 - 2. Answer the questions, and then click **Next Step**.
 - By email address. This is applicable to all accounts, but an email address must be configured first. For details, see "3.2.2 Adding User".
 - 1. Click Reset Password through Email Verification.
 - 2. Click Send Verification Code.
 - 3. Enter the verification code that you received from the email address, and then click **Next Step**.
- Step 4Set a new password and confirm it, and then click Next Step.The password has been reset.

3.3 Configuring Storage

Manage the storage of the platform, including setting storage types to store different types of files, and setting the storage location and retention period of the images and recorded videos from devices.

3.3.1 Configuring Server Disk

Configure local disk to store different types of files, including videos, images, and normal files. In addition to the local disks, you can also connect an external disk to the platform server, but you have to format the external disk before using it.

 \square

- To set up local storage, you need a physical disk with only one volume or any volume of one physical disk. Back up the data of the disk or volume before setting its disk type, which will format and erase all data from it.
- One physical disk with only one volume or any volume of one physical disk can only store one type of files. If you need to store more than one type of files, you need more than one physical disks or volumes, but it cannot be the one where you installed the operating system of the server or the DSS server. See "2.1.2 Installing DSS".

Procedure

<u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **Basic Config** section, select **Storage**.



Step 2 Select

<u>Step 3</u> Format a disk to set a storage type

- 1) Select user volume, and then click 🙆.
- 2) Select storage type, and then click **OK**.
 - Video: Stores videos.
 - Images and Files: Stores all types of images and temporary files.

\square

If you do not set up one or more disk types, you will not be able to properly use corresponding functions. For example, if you do not set up an **Image and File** disk, you will not see images in all alarms.

» B	Name: Videos: 9 20.3808/196.3208	Images and 32.9568/14			
* Baserver	Name: Videos: #8 11.0568/100.0008	Images and 270.73G6/2			
Disk Name	Capacity	Storage Type	Health Status	Disk Status	Operation
	Totat 100.00GB, Available: 11.05GB	Initialize Disk			• 🖾
					• 0
	Total: 169.14GB, Available: 169GB				۲
		Disk Type: Video	• OK Cancel		

<u>Step 4</u> Manage local disks.

- To configure disk type: Click 🔯.
- To format a disk: Select a disk or user volume, click

3.3.2 Configuring Device Storage

When there are a large number of devices on the platform, it will put too much pressure on the local disks because they might produce a lot of images and videos that need to be stored. The platform supports setting the storage location and retention period of the images and videos for storage devices, such as an IVSS, to reduce the pressure on the server.

Background Information

The types of images include face captures, video metadata, and events.

Procedure

<u>Step 1</u>	Log in to the DSS Client. On the Home page, click 🔊, and then in the Basic Config
	section, select Storage > Device Storage Config.
	Only organizations with storage devices are displayed.
<u>Step 2</u>	Select an organization, click 🔯 of a device on the right.
<u>Step 3</u>	Configure the parameters, and then click OK .



Table 3-17	Parameter description
------------	-----------------------

Parameter	Description
Event Image Storage Location	 Save to Central Storage: All images produced by the channels connected to this device will be stored on the local disks of the platform. Link to Images on Device: All images produced by the channels connected to this device will be stored on the device itself. The platform will obtain images from the device.
Event Video Storage Location	 Save to Central Storage: All alarm videos produced by the channels connected to this device will be stored on the local disks of the platform. Link to Videos on Device: All alarm videos produced by the channels connected to this device will be stored on the device itself. The platform will obtain videos from the device. To make sure that alarms videos are complete, we recommend you set a 24-hour recording plan for the device. Otherwise, the platform might not be able to obtain videos. For example, a recording plan of 00:00–14:00 has been configured on the device so that the channels connected to it will record videos during that period. If an alarm is triggered on 14:01, the platform will not be able to obtain videos for this alarm.
Retention Time of Images and Videos on Device	This function is applicable to the images and videos stored on the device. After enabled, the platform will obtain the value from the device, and you can change it to 1–180. The images and videos that have been stored longer than this value will be automatically deleted.



4 Businesses Configuration

This chapter introduces the basic businesses, such as storage plan, video monitoring, access control, video intercom, target detection, face recognition, ANPR, and intelligent analysis.

4.1 Configuring Events

To receive alarms triggered by devices, you need to configure them on the platform.

4.1.1 Configuring Event Linkage

Configure the event source, and the linked actions. When the event is triggered, the platform will perform the actions you defined, such as taking a snapshot recording a video.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **App Config** section, select **Event** > **Event Config**.
- Step 2 Click Add.

Figure 4-1 Configure the event source

vent Source		
	Triggered Event	
	SearchC	Storch
Video Channel Alarm Input Channel Access Control Channel Parking Lot Soft Trigger Combined Event Custom Alarm	Common Device Alarm Device Disconnected Encoder Disk Ful Disk Error No Disk Emergency SoS Tamper Access Control Device	►

<u>Step 3</u> Configure the event source.

Table 4-1	Parameter description of event source types
-----------	---

Parameter	Description
Device, video channel, alarm input channel, access control channel, parking lot	 Select the type according to the type of the device or channel. Before configuring the event, check whether the channel features match the event type; otherwise the event type cannot be selected as the alarm source. To configure channel features, see "3.1.2.5.2 Modifying Device Information". If Alarm Input Channel is selected, check whether the Triggered Event that you select matches the channel feature of the alarm input channel you select. Otherwise, the event will not be triggered.



Parameter	Description
Soft Trigger	This is a type of event that is manually triggered. Click Add Soft Trigger Event Type to customize its name and icon. When viewing the live video image of the configured channel in the Monitoring Center , you can click the icon to trigger an alarm manually.
Combined Event	When a combined event is triggered, the platform performs the defined linked actions. For how to configure combined events, see "4.1.2 Configuring Combined Events".
Custom Alarm	This is used for events that devices support, but the platform currently does not.
	Click Add Extended Standard Event , and then configure the alarm source, name, and alarm code.

Step 4 Configure the priority, when the event can be triggered, and other information.

Parameter	Description
Priority	The priority level is used to quickly know the urgency of the event when it is triggered.
Time Template	Select a time template for when the event can be triggered. If you want to create a new template, see "3.1.5 Adding Time Template".
Holiday Template	Select a holiday template for when the event will not be triggered. To create a new template, follow the steps below.
	1. In the drop-down box, click Create Custom Holiday Template .
	2. Enter a name for the holiday.
	3. Click Add , and then add a period and adjust the time.
	You can add up to 50 periods.
	4. (Optional) If there are other holiday templates, you can select
	Copy From , and then select a template to copy its periods.
	5. Click OK .
Тад	Enter some content that is used for filtering among a large amount of events.

Table 4-2 Parameter description

<u>Step 5</u> Configure alarm linkage actions.

• To link video, enable Linked Action > Link Video, and then configure the parameters.

Table 4-3 Parameter description

Parameter	Description
Camera	 Event source: The camera of the alarm itself is linked when the alarm occurs. Bound camera: If the alarm channel is bound to a video channel, you can view the video of the bound channel. To bind a channel, see "3.1.3 Binding Resources". Select camera: Select a camera so that you can view the camera video when the associated alarm is triggered.



Parameter	Description
When an alarm is triggered, display camera live view on client	Enable this parameter, and then the platform will open the real-time video of the channel where an alarm is triggered, and play it in the defined stream type. After the event is configured, select Local Settings > Alarm, enable Open Alarm Linkage Video and set how the video will be opened, As Pop-up or Open in Live View. For details, see "8.3.4 Configuring Alarm Settings".
Event Recording	Start recording when an alarm is triggered. The video will be saved to\DSS\DSS Client\Record by default.
Stream Type	Define the stream type of the recorded video. If you select main stream, the recorded video will be in higher quality than sub stream, but it requires more storage.
Recording Time	The duration of the recorded video.
Prerecording Time	 When there is recorded video that is stored on the device or platform before the alarm is triggered, the platform will take the defined duration of that video, and then add it to the alarm video. For example, when the prerecording time is set to 10 s, then the platform will add 10 s of video before the alarm is triggered to the alarm video. If the alarm video is stored on the device, we recommend you
5	configure a 24-hour recording plan to make sure that there is
	prerecorded content to add to the alarm video.
	 If the alarm video is stored on the platform, the platform will record
	videos and use certain input bandwidth continuously.
	• This parameter is not applicable to alarms in parking lots.

• To trigger a snapshot, enable **Trigger Snapshot**. The platform takes 2 snapshots, and save them to ..\DSS\DSS Client\Picture by default.

Select a video channel, and then it will take a snapshot when an alarm is triggered.

- To link a PTZ action, click **Link PTZ**, and then select the PTZ channels and presets to be linked.
- Click **Alarm Output**, select an alarm output channel, and then set the duration. The channel will send out alarm signal when an alarm is triggered.
- To link audio and light, click **Link Audio and Light**, select the audio and light channels, and then select the action duration.
- Click Link Access Control Device, select door channels, and then select a linked action. When an alarm is triggered, the door channels you selected will be locked, unlocked, normally open or normally closed.
- To play alarm video on the video wall, click **Link Video Wall**, select a camera on the left of the page, and then select a video wall window on the right of the page.



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Make sure that you have added decoders to the platform, configured video wall and set alarm window.

- To execute an HTTP URL; command, click **Link HTTP URL Command**. Click **Add**, and then configure its request method, HTTP URL, and remarks. You can click 🗹 to test if the command is valid.
- To link emails, enable **Email**, and click **•** to add the email address, and then an email will be sent to the selected email address when an alarm is triggered. You can also manually enter an email address, but you must press Enter to make it valid. To configure the email template, select **Add Email Template** from the **Email Template** drop-down list.
- Apply an alarm protocol to help users process alarms when they are triggered. Click **Alarm Protocol**, and then select a protocol from the **Protocol Template** drop-down list.Click **Add protocol template** to create a new protocol.
- <u>Step 6</u> Select one or more users who will receive the notification when an alarm is triggered. The users will only receive notifications when they are logged in. If you need to add more users, see "3.2 Adding Role and User".

<u>_~~</u>

Step 7

```
If the page becomes too long because you need to configure many parameters, you can
use the pane on the right to quickly go to different positions.
Click OK.
```

4.1.2 Configuring Combined Events

Configure the relation between the time of trigger of 2 events, and then you can configure what actions to performed when the event is triggered.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **App Config** section, select **Event** > **Combined Event Rule Config**.
- <u>Step 2</u> Click 📑 to add a rule for combined events.
- Step 3Enter a name for the rule, and then configure the details.For example, select event B occurs and configure the X and Y to be 10 and 50 seconds
respectively. If event B occurs during the 10 seconds to 50 seconds after event A occurs, a
combined event is triggered, and then the platform will perform defined linked actions.
- Step 4 Click OK.

The previous page displays.

<u>Step 5</u> Click **Add**, and then configure the parameters of the combined event.

Parameter	Description
Name	Enter a name for the combined event.
Rule	Select a rule.

Table 4-4 Parameter description



Parameter	Description
Source of Combined Event	Select the event and event source for event A and B.

<u>Step 6</u> Click **OK**.

Related Operations

Configure the linked actions for the combined event. For details, see the previous section.

4.1.3 Filtering Repetitive Alarms

If certain alarms are frequently triggered, you can configure an interval during which they can only be triggered once. For example, a tripwire alarm can only be triggered once in 10 seconds.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **App Config** section, select **Event** > **Alarm Config**.
- Step 2 Click Add.
- <u>Step 3</u> Select an event, and then configure the interval.
- Step 4 Click **OK**.

4.2 Configuring Map

4.2.1 Preparations

- Devices are deployed. For details, see device user's manuals.
- Basic configurations of the platform have been finished. For details, see "3 Basic Configurations".
- A map picture is prepared.
- To show device alarms on the map, make sure that **Map flashes when alarm occurs** is enabled in **Home > Management > Local Settings > Alarm**.

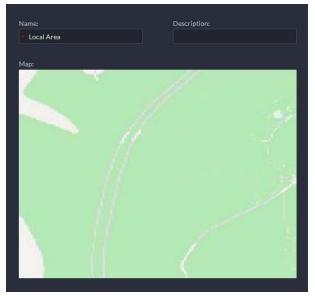
4.2.2 Adding Map

A raster map is suitable for places where you want ot view their detailed information, such as a parking lot. You can add multiple ones.

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **App Config** section, select **Map**.
- <u>Step 2</u> Select **Main Map**, and then click **Add Map**.
- <u>Step 3</u> Enter the map name, select the picture and then click **OK**.



Figure 4-2 Add main map



Step 4 Add a sub map.

- 1) Click the added raster map, and then click **Add Sub Map**.
- 2) Enter the map name, upload the picture, and then click **Next Step**.
- 3) Drag the picture to the desired position and click **OK**.

Related Operations

- Hide Device Name Only display the icons of devices.
- Delete resources To delete a device from the map, click it and then click **Delete Device**.
- Show device

Select which type of resources you want to display on the map.

• Move

To move a device, click ${\bf Move}$ and then drag the device on the map.

• Select

To select one or more devices, click **Select**, and then click the devices on the map one by one.

• Pane

To select devices in batches, you can click **Pane**, and then draw a frame on the devices to select the device.

• Clear

To clear all markings on the map, click **Clear**.

• Add Sub-map

To add a sub map on the current map, click **Add Sub Map**, click on the map to locate it, enter a name, upload a map picture and then click **OK**.

• Map scale

Select **Map Scale** > **Configure the map scale**, drawa line one the map, and then enter its actual distance.

• Length

Select **Box** > **Length**, connect two points with a line on the map (double-click to finish drawing), and then the distance between the points is shown.



Area

Select **Box** > **Area**, select a region on the map (double-click to finish drawing), and then the area is measured.

• Add Mark

Select **Box** > **Add Mark**, and then mark information on the map.

• Reset

Select **Box** > **Reset** to restore the map to its initial position and zoom level.

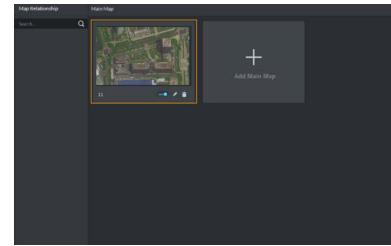
4.2.3 Marking Devices

Link a device to the map by dragging it to the corresponding location on the map according to its geographical location.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **App Config** section, select **Map**.
- Step 2 Click the map.

Figure 4-3 Map



<u>Step 3</u> Drag the device channel from the left device tree to the corresponding location of the map.

4.3 Personnel and Vehicle Management

Configure personnel and vehicle information for the applications of access control, vehicle control, and video intercom.

- Personnel information contains card number, password, face picture, and more. People bound with vehicle information will be displayed in the vehicle list.
- Vehicle information helps to confirm the entry of the vehicle into a certain area. Vehicle bound with personnel information will be displayed in the personnel list.



4.3.1 Adding Person and Vehicle Groups

Add person and vehicle groups to easily manage people and vehicles. People and vehicles use the same groups. Only administrators can add, edit, and delete person and vehicle groups.

Procedure

<u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **App Config** section, select **Personal and Vehicle Info**.

<u>Step 2</u> Click **Person List** or **Vehicle List**.

<u>Step 3</u> Click **I**, and then configure the parameters.

Table 4-5	Parameter description	
Tuble 15	i uluinetei uesenption	

Parameter	Description
Parent Group	This is for permission control. For example, if a user cannot access Group A, then the user cannot access all the groups under Group A.
Group Name	Enter a name for the group.
Roles Allowed Access	Only the roles and their users can view this group. Only the roles and their users can view this group. Click I to see the users assigned with the roles.

<u>Step 4</u> Complete configuration.

- Click **Add** to add the group and exit the page.
- Click **Save and Add Person** to add people to the group. For details, see "4.3.2 Configuring Personnel Information".

4.3.2 Configuring Personnel Information

Add people to the platform and grant them access to different access control devices, entrance and exits permissions, and more.

 \square

To collect fingerprints or card number, connect a fingerprint collector or card reader to the computer where the PC client is installed.

4.3.2.1 Adding a Person

- Step 1Log in to the DSS Client. On the Home page, click , and then in the App Config section,
select Personal and Vehicle Info.
- <u>Step 2</u> Click 🛃.
- Step 3 Click Add.
- <u>Step 4</u> Click the **Basic Info** tab to configure person information.
 - 1) Hover over the profile, and then click **Upload** to select a picture or click **Snapshot** to take a photo.





- You can upload 2 pictures or take 2 snapshots.
- Click on the **Snapshot** page, and then you can select camera, pixel format, resolution, and image quality. These settings are only effective with the current client.
- 2) Enter personnel information as necessary. ID is required and must be unique. It can be up to 30 characters, and letter-number combination is also supported.

Figure 4-4 Personnel information

		- Igare
ら Add Pe	erson	
Basic	Info	*
ID:	770725	
Name Rie	sk Grimes	
Gende	ar•	······································
Male		
Perso	n Group:	Email Address:
All F	Persons 🔻	rick_grimes@gmail.com
Phone	≘No.:	Remarks:
123	45678901	
	Only certain o	devices support the second picture or snapshot. The second picture or
		be the person's face being blocked, such as wearing a mask or a hat.
<u>Step 5</u>		en set person details as required, including nickname, ID, address,
<u> 510 5 5</u>		company, job title, and more.
Stope		
<u>Step 6</u>	ii the personis re	esident, Click end next to Resident Info , and then bind room number.
	• Room No.: Th	ne number of the apartment in which this person lives. The room number
	is displayed ir	n the access records and video intercom operation records. Access
	permission of	f the corresponding VTO is also included when authorizing access control
	permission to	
		When several people live in one apartment, you can set one of them as
	the homeowr	
<u>Step 7</u>		tication Info tab, and then set validity period and access control
<u> </u>		teation find tab, and then set validity period and access control
	information.	



Authentication Info		
Validity Period:		
2021/07/14 00:00:00-2031/07/14 23:59	9:59 📰	
Multi-factor Authentication Password @) (2)	Unlock Password (Only for 1st gen)
+		+
Card 🗘		
+		
Fingerprints 💠		
🖶 Add 📋 Delete		
Fingerprint Name	Operation	

- 1) Configure effective periods, within which the face, card, password, and fingerprint are effective.
- 2) When access controllers are added and passwords are required to unlock the door, configure the password first.
 - A multi-factor authentication password must be used with a card, person ID, or fingerprint to unlock the door. It is only applicable to second-generation access control devices.
 - Click and you can set up an unlock password that can be used to directly unlock the door. It is only applicable to first-generation access control devices.

<u>Step 8</u> Issue cards to personnel.

One person can have up to 5 cards. There are two ways to issue cards: by entering card No. or by a card reader. A card number is 8-16 numbers. Only second-generation access control devices support 16-digit card numbers. When a card number is less than 8 numbers, the system will automatically add zeros prior to the number to make it 8 digits. For example, if the provided number is 8004, it will become 00008004. If there are 9-16 numbers, the system will not add zero to it.

- Issue a card through a card issuer or a device with a card reader.
 - 1. Click 🔯 next to **Card**, select a card issuer or a reader of a device, and then click **OK**.



Figure 4-6 Card reader manager

×
Cancel

- 2. Click , swipe a card on the device you select, the card number will be recognized and displayed.
- 3. Click 🔽.
- Manually enter the card number.
 Click , enter card number, and then click .

Figure 4-7 Reader manager

Card 💠	
Card No.:	
A12345678	
	~ ×

Table 4-6 Card operations

lcon	Description
1	If a person has more than one card, only the main card can be issued to the first- generation access control device. The first card of a person is the main card by default.
	Click 💶 on an added card, the icon turns into 1, which indicates that the card is a main card.
_	Set a card as duress card. When opening door with a duress card, there will be a duress alarm.
	Click this icon, it turns into 🗰, and 🞑 is displayed at upper right, which indicates that the card is set as a duress card. To cancel the duress setting, click 🚾.
5 1	Change card for the person when the current card does not work.
İ	Remove the card, and then it has no access permissions.



<u>Step 9</u> Collect fingerprint.

To open door with fingerprint, you need to collect personnel fingerprints. A person can have up to 3 fingerprints.

- 1) Click 💽 next to **Fingerprint**.
- 2) Click Add.
- 3) Select a fingerprint collector from the **Fingerprint Collector** drop-down list, and then click **OK**.
- 4) Click Add

Figure 4-8 A collected fingerprint

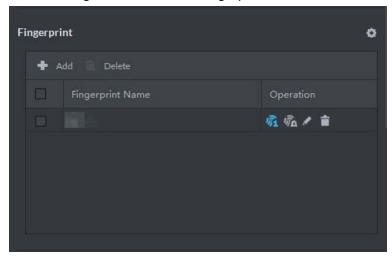


Table 4-7 Fingerprint operations

Description
One can have 3 fingerprints, but only these fingerprints can be issued to devices.
Click this icon, and then it turns into 🙀 , which indicates that this fingerprint
has been set as a main one. To cancel the main fingerprint setting, click 🙀.
Set a fingerprint as duress fingerprint. When opening door with a duress fingerprint, there will be a duress alarm.
Click this icon, it turns into 🚮, which indicates that the fingerprint has been set
as a duress fingerprint. To cancel the duress setting, click 💏 .
Modify fingerprint name.
Remove the fingerprint, and then it has no access permission.

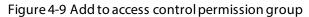
<u>Step 10</u> If the person has one or more vehicles, click 🔯 next to **Vehicle Information** to add

vehicle information, so that you can grant access permissions to this person's vehicles later.

- If vehicles have been added to the platform, click **Select from Vehicle List**, and then select the vehicles for this person.
- If vehicles have not been added to the platform, click +, and then enter the plate number, and select a color and brand.
- <u>Step 11</u> If the person needs access control permission, enable the permission first.
 - 1) Click en next to Access Control Permission.



- 2) Select Access Type, and select Allow Device Login check box as needed.
 - Allow Device Login: People have permission to go into web page from the device.
 - Select **General** if you want to set the person to be a first-card user.
- 3) Click **Add**, and then select access control permission group. For details, see "4.4.1.1 Creating Face Comparison Group".



Access Control Permission 🗨	
Access Type:	
General 🔻	🗹 Allow Device Login
Access Permission Group: + Add Remove	
Access Permission Group Name	Operation

<u>Step 12</u> Enable **Face Comparison** to recognize the person by images.

- 1) Click en next to Face Comparison.
- 2) Select a face comparison group.

Figure 4-10 Face comparison

Face Comparison 🕒	
Please select	-

\square

You need to create a face comparison group first.

- <u>Step 13</u> If the vehicle needs access to the parking lot, enable and configure **Vehicle Group** first.
 - 1) Click en next to Parking Lot Vehicle Group.
 - 2) Enable **Parking Space Available** and configure the number of the parking space for the vehicle owner.
 - 3) Click **Add** to select a vehicle of the person, and then select which vehicle group it belongs to, and for how long it has permission to park in the parking lot.



Figure 4-11 Parking lot vehicle group

Parking Lot Vehicle	Group 💻			
Parking Spaces Availal				
	vehicle group, the vehicle has the acce			
If you select the blo				
	cklist group and non-blocklist groups a Vehicle Group	at the same time, only the vehicle permissions of Validity Period	he blocklist group will take effect. Operation	
🕈 Add				
🕈 Add				

Step 14 Click OK.



To delete a person, you can select the person, and then click 💼; to delete all people on this page, select the **Select All** check box, and then click **Delete**.

Related Operations

- To edit basic information of a person, select the person, and then click **2**.
- To delete a person:
 - Click 💼 to delete a person and associated permissions.
 - Select multiple people, and then click **Delete** to delete them and their permissions.
 - Click **Delete All** to delete all the people and their permissions in the group.
- To view authorization exception, click .
- To search for a person, enter key words in the DMamePlate No. Q.

4.3.2.2 Importing Multiple Persons

To quickly add a number of personnel, you can download a personnel template, fill in it and then import it to the platform. You can also import an existing personnel file.

Prerequisites

Prepare an .xlsx file that includes the information of the people you want to import, their face images (optional), and then compress them into a zip file. The .xlsx file can include information of up to 5,000 people. The zip file cannot be larger than 1 GB.

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **App Config** section, select **Personal and Vehicle Info**.
- <u>Step 2</u> Click 🛃.
- <u>Step 3</u> Select **Import** > **Import from File**.



Figure 4-12 Import personnel information

5			
Import			×
Import File	Download Template		
		\sim	
		(\uparrow)	
		Click to Select File	

<u>Step 4</u> Import the personnel information file.



If there is no personnel information file, click **Template Download** and follow the instructions on the page to create personnel information.

Step 5 Click OK.

The following cases might occur during an import:

- If there are failures, you can download the failures list to view details.
- Read carefully the instructions in the template to make sure all the information is correct.
- Cannot read the contents with a parsing error reported directly.

Related Operations

- Export personnel information. Select an organization, click **Export**, and then follow the instructions on the page to save the exported information to a local disk.
- Download template. To add personnel information in batches, you can download the template, fill in the information, and then import it.

4.3.2.3 Extracting Personnel Information

When personnel information has been configured on access control devices or door stations, you can directly synchronize the information to the platform.

Procedure

<u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **App Config** section, select **Personal and Vehicle Info**.

<u>Step 2</u> Click 🛃.

<u>Step 3</u> Click **Import**, and then select **Import from Device**.



	Figure 4-13 Import from device	
Person Group	All Persons	
+ 🖌 📋 Search, Q	🕈 Add 📋 Delete 🔻 🚵 Import 🖄 Export 📼 Batch Issue Cards 🖸 Move To	
In All Persons	Rasic Info Authentication Info Import from Device	Vehicle ×
	E	
	10.35.89.110 Acquired person information: 2	Completed.
	123123123 NoteAprica	

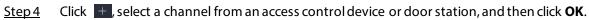


Figure 4-14 Extract task list

Import from Device		×
Acquire Task List		
Select Device		Q
▼ I Root		
▼		
<u>0</u> , 1		
	ОК	Cancel

<u>Step 5</u> Double-click a result to view the detailed information.

<u>Step 6</u> Synchronize personnel information to the platform, or export information.



		Figure 4-15 Perso	nnel extraction results		
Import	from Device				\times
5 2	20				
🕨 Imp	oortAll 🔶 Im	iport Selected 🛛 📩 Export		Search 🤇	۹
	ID	Name	Access Type	Authorization Information	
	28848	fww4	General	🏶 X1 🚍 X5 🔞 X0	
	13792	fww3	General	🏶 X1 🚍 X5 🔞 X0	
	41585080	fww1	General		
	26568	fww2	General	🏶 X1 🚍 X5 🔞 X0	
	26527	fww5	General		
	1003		General		
	1001		General		
	1	szt111	General	⇔ x0 ≡ x1 @ x0	
	2	szt2	General	⇔ x0 ≡ x1 @ x0	
Total of	80 Record(s)		1 2	3 4 ▶ 20 ▼ Per Pa	age

- To add all the personnel information to the platform, click **Import All**.
- To add part of the information, select the people of interest, and then click Import selected.
- To export information, select the people you want, and then click **Export**.

4.3.2.4 Issuing Cards in Batches

- Log in to the DSS Client. On the **Home** page, click **N**, and then in the **App Config** section, <u>Step 1</u> select Personal and Vehicle Info.
- Click 📲. <u>Step 2</u>
- <u>Step 3</u> Select the people to issue card to, and then click Batch Issue Card.



Figure 4-16 Issue card in batches

Person Group	All Per	sons	18			
+ × i	+ Add	🖀 Delete 👻 İmport 🔥 Export	🖷 Batch Issue Card 🖸 Move To		nclude Sub-Group	ite No. Q
StarchQ		Basic Info	Authentication Info	Vehicle Information	Business Group	Operation
▼ 品 All Persons 査 fww 査 1		233 942 A All Persons	Not expired ■ X0	18 x 1 AZW693	E fww_isc	< *
		1 ■ 2890 ▲ All Persons	Notexpired ■ x0	■ X1 11111111 222222222	■ 111 2: assa @ Normal	/ 1
		andy a 19010 Å All Persons	Not expired ≕xo ⊗xo ™			× *
		test ■ 20711 A All Persons	Natespired ■ X0 ● X0 II			/ = 0
		test1 26227 All Persons	Notespired ■ X0 ♥ X0		⊠ test1	/ = 0
		2 ■ 26607 ▲ All Persons	Notespired ■ X0 ♥ X0 ■		E 200	< *
		112 ■ 1340121 ▲ All Persons	Notexpired ■ X0 ● X0 ■			/ 1

<u>Step 4</u> Set term of validity.

<u>Step 5</u> Issue cards to personnel.

<u>Step 6</u> Support issuing cards by entering card number or by using a card reader.

• By entering card number



Figure 4-17 Enter card number

් Ba	atch Issue Card			
	Effective Period: 2021/04/13 00:00:00-2031/04,	/13 23:59:59 🔡		
	Issue Card 🔅			
	ID	Name	Card No.	Operation
	942	233		غ
	2890	1		i
	19010	andy		•
	20711	test		
	26227	test1		i
	26607	2		i
	1340121	112		i
	6754227	z1		i
	10020001	ZhangSan1	10020001	i
	10020002	ZhangSan2	10020002	i
	10020003	ZhangSan3	10020003	i
	10020004	ZhangSan4	10020004	i
	10020005	ZhangSan5	10020005	i
	10020006	ZhangSan6	10020006	=
	10020007	ZhangSan7	10020007	i
	10020008	ZhangSan8	10020008	•
Save	e Cancel			

- 1) Double-click the **Card No.** input boxes to enter card numbers one by one.
- 2) Click **OK**.
- By using a card reader
- 1) Click 🙆.
- 2) Select a card reader or device, and then click **OK**.



Figure 4-18 Reader manager

2021-04-13 00.00.0	0-2031/04/13 23:59:59 🖬			
Issue Card 💿				
	Name	Card No.	Operation	
			•	
2890		Card Reader Man	lager	
		Card Be	adar:	
		Device		
		Devices		

- 3) Select people one by one and swipe cards respectively until everyone has a card number.
- 4) Click **OK**.

4.3.2.5 Editing Person Information

Modify personnel information including basic information, authentication details, and authorization. Person ID cannot be modified.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **App Config** section, select **Personal and Vehicle Info**.
- <u>Step 2</u> Click 🛃.
- <u>Step 3</u> Click **I** to edit information. For details, see "4.3.2.1 Adding a Person".

4.3.3 Vehicle Management

Manage vehicle information including vehicle type, owner, entry and exit permissions and arming groups.

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **App Config** section, select **Personal and Vehicle Info**..
- <u>Step 2</u> Click 榋.
- <u>Step 3</u> Click **Add** to add vehicle information.
 - Add vehicles one by one
 - 1. In the **Owner Info** section, click **Select from Person List** to select the owner of the vehicle.
 - 2. Configure the information of the vehicle in the **Vehicle Info** section, such as the vehicle group, plate number (required and unique), vehicle color, brand and more. If you have selected an owner, you can add multiple vehicles.
 - 3. Click contained to enable **Parking Lot Vehicle Group**, and then you can set the available parking spots for the selected person, and grant access permissions by adding vehicles into entrance and exit vehicle groups.



Figure 4-19 Parking lot vehicle group

Parking Lot Vehicle Group 🛛 🔫			
a king bot venicle or oup			
Parking Spaces Available: 💿 🛛 🗨			
1			
Plate No.	Vehicle Group	Validity Period	Operation
ABC12345	General	Long Term	•

\square

If the owner has more vehicles than the set parking spots, once no parking spots available, owner cannot access the parking lot.

4. Click **C** to enable **Vehicle Arming Group**, and then click **Add** to arm the vehicles you have just added.

Figure 4-20 Vehicle arming group

Vehicle Arming Group 😑			
 After selecting the vehicle arming group Add 			
Plate No.	Vehicle Arming Group	Validity Period	Operation
ABC12345	High Risk Vehicle	Long Term	•

\square

For arming group details, see "4.4.2.1 Creating Vehicle Arming Group".

- Add vehicles in batches
 - 1. Click **Import** at the top, and then click **Template Download**.
 - Fill in the template, and then select Import > Import File. Click to select the file and import.

 \square

The platform supports downloading files that failed to import for you to check and fix.

Step 4 Click OK.

<u>Step 5</u> (Optional) You can export vehicle information to local storage as needed.



Figure 4-21 Export vehicle information

Export		×
Username:	Login Password:	
system	* Please enter login password 🛛 🐱	
Encryption Password:	Confirm Encryption Password:	
* Please enter 6 digits 🛛 😽	• *	
Export Range:		
Selected 🗸		
Up to 100000 records can be export		
	ОКС	ancel

- Click **Export** and then enter required information, such as passwords for login and encryption, to export all the items.
- Select vehicles, and then click **Export** to export only the selected information.

Related Operations

- You can search vehicles by entering keywords in search box at the upper-right corner.
- Click 🗹 or double-click the column to edit the vehicle information.
- Click i to delete vehicles one by one. You can also select multiple vehicles and then click **Delete** at the top to delete in batches.

4.4 Watch List Configuration

Configure face and vehicle watch list for future investigation.

- For face watch list, you can create and arm face comparison groups to recognize faces.
- For vehicle watch list, you can create vehicle comparison groups, add vehicles and then link devices for plate recognition.



4.4.1 Face Watch List

Configure face watch list and issue the list to devices for recognition and alarm.

4.4.1.1 Creating Face Comparison Group

Only administrators can add, edit, and delete person and face comparison groups.

Prerequisites

- Make sure that the devices for face recognition have been successfully configured onto the Platform.
- Make sure that the basic configuration of the Platform has completed. For details, see "3 Basic Configurations". During the configuration, you need to pay attention to following parts.
 - When adding devices on the **Device** page, set the **Device Category** to **Encoder**.

C	Add Device	
	1.Login Information	
	Add Mode: IP Address 🗸	Access Protocol: Dahua
	Device Category: Encoder	
	IP Address:	Device Port: • 37777
	Username: • admin	Password:
	Organization: Root 🔹	Server:

Figure 4-22 Device category

 When adding devices like NVR or IVSS which support face recognition, set the device feature to Face Recognition. For details, see "3.1.2.5 Editing Devices".



Figure 4-23 Feature configuration

All Device				
≅ Basic Info	Channel Number:	(0-1024)		
Video Channel	Channel Name	Camera Type	Features	Keyboard Code
🖹 Alarm Input Channel	vth-3-1200_1	Speed Dome	Face Recognition	
Alarm Output Channel	vth-3-1200_2	Speed Dome	Face Recognition	
Access Control Channel				

◇ Make sure that you have configured at least one disk with the type of **Images and Files** to store face images. Otherwise, the snapshots cannot be displayed.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then select **Watch List** > **Face Watch List**.
- <u>Step 2</u> Click **Add**, and then configure the parameters.

Table 4-0 Falameter description	Table 4-8	Parameter description
---------------------------------	-----------	-----------------------

Parameter	Description
Face Comparison Group Name	Enter a name for the group.
Color	You can use colors to quickly differentiate each group. For example, red indicates key targets.
Roles Allowed Access	Only the roles and their users can view this group. Only the roles and their users can view this group. Click I to see the users assigned with the roles.

Step 3 Click Add.

4.4.1.2 Adding Faces

Add people to face comparison groups. Their faces will be used for face comparison.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then select **Watch List** > **Face Watch List**.
- <u>Step 2</u> Click 🛃 of a group you want to add people to it.
 - Add people by person groups. This is the most efficient way, provided that you have created person groups based on the access permissions. For details, see "4.3.2 Configuring Personnel Information".

Click **Add by Person Group**, select one or more groups, and then click **OK**. You can also select **Include Sub Groups** to include the people in the sub groups of the groups you select.

• Select the people you want to add. This is applicable to people in different person groups have the same access permissions.

Click Add by Person, select the people you want to add, and then click OK.



4.4.1.3 Arming Faces

The faces of the people in comparison groups will be sent to devices for real-time face recognition. If the similarity reaches the defined threshold, alarms will be triggered.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then select **Watch List** > **Face Watch List**.
- <u>Step 2</u> Click 🔄 of the face comparison group you want to arm.
- Step 3 Click **Add**, select one or more devices or channels, and then click **OK**. The platform will send the information of the face watch list to the devices and channels you selected, and display the progress. If exceptions occur, you can click **O** to see the reason.

Send Face Comparison Group			×
Face Comparison Group: 1111			
Search Q	Selected (3)		#
🔻 🔲 🖬 Current Site	Send to	Organization	Operation
► 🗆 🚓 NVR	608370206	IVSS	•
V 🔲 📩 IPC		IVSS	•
🔻 🗹 🤮 eptz	Rinni	IPC	•
C 🔂 🖾 IPC			
▶ 🗹 🚓 IVSS			
▶ □ ☆/1999 WARK			
			OK Cancel

Figure 4-24 Send face comparison group

<u>Step 4</u> After the face watch list is successfully sent, click **Next Step**.

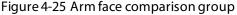
<u>Step 5</u> Click **Add**, select the channels you want to arm, and then configure the similarity for each channel.



\square

When the similarity between the face captured by the channel and a face in the face watch list reaches or is greater than the defined value, it is considered a match.

Arm Face Comparison Group				×
Face Comparison Group: 1111				
Search Q	Selected (3)			t.
▼ ■ Π Current Site	Device	Channel	Similarity	Operation
🔻 🗹 📩 IPC	and a	IPC	85 🗘	•
🔻 🔽 🧟 eptz		face	80	•
🔽 😼 IPC	000170000	smart-gate-In	80	•
▼ ■ 📅 IVSS				
			ОК	Cancel



Step 6 Click OK.

- <u>Step 7</u> (Optional) View exceptions and arm the face comparison group again.
 - 1) Click 0 to view why arming failed and address the issue.
 - 2) Click **Send Again** to arm the face comparison group again.

4.4.2 Vehicle Watch List

Create a vehicle comparison group and add vehicles to it. After a vehicle comparison group is sent to ANPR cameras for recognition, alarms will be triggered if the vehicles in the group are captured and recognized.

4.4.2.1 Creating Vehicle Arming Group

A vehicle arming group contains the information of multiple vehicles. When arming the group, you can arm all the vehicles inside the gorup at the same time. Only administrators can add, edit, and delete person and face comparison groups. You can add up to 8 vehicle arming groups.

- Step 1Log in to the DSS Client. On the Home page, clickAnd then clickWatch List > VehicleWatch List.
- <u>Step 2</u> Click **Add**, and then configure the parameters.



Table 4-9 Parameter description

Parameter	Description
Vehicle Arming Group Name	Enter a name for the group.
Color	You can use colors to quickly differentiate each group. For example, red indicates key targets.
Roles Allowed Access	Only the roles and their users can view this group. Only the roles and their users can view this group. Click I to see the users assigned with the roles.

Step 3 Click Add.

4.4.2.2 Adding Vehicles

Add vehicles to vehicle arming groups. After armed, devices will recognize their plate numbers and trigger alarms.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **№**, and then click **Watch List** > **Vehicle Watch List**.
- <u>Step 2</u> Click 🖬 of a group, or double-click a group, an then click **Select from Vehicle List**.
 - Add vehicles by vehicle groups. This is the most efficient way, provided that you have created vehicle groups. For details, see "4.3.2 Configuring Personnel Information". Click Add by Vehicle Group, select one or more groups, and then click OK. You can also select Include Sub Groups to include the vehicles in the sub groups of the groups you select.
 - Select the vehicles you want to add. This is applicable to vehicles that you want to add are in different vehicle groups.

Click Add by Vehicle, select the vehicles you want to add, and then click OK.

4.4.2.3 Arming Vehicles

The plate numbers of the vehicles in comparison groups will be sent to devices for real-time recognition and trigger alarms.

Log in to the DSS Client. On the **Home** page, click **N**, and then arm the vehicle on the **Event** page. Click **Add** to add an event to arm a vehicle watch list. For how to configure events, see "4.1 Configuring Events".



Figure 4-26 Arm vehicle event **Event Source** Event Source Type Event Source **Event** Q Q Device Video Channel ▶ 🗌 📩 🛑 Alarm Input Channel ▶ 🔽 📩 💻 Access Control Channel High Risk Vehicle ▶ 🗌 🎰 👘 Parking Lot ▶ 🗌 📩 🚽 Soft Trigger ▶ 🗆 📩 📕 Combined Event Audio Detection Audio Exception __ **...** Intensity Change PPE Detection Alarm Mismatch Attributes Ala...

4.5 Access Control

Issue cards, collect fingerprints and face data, and apply permissions, so that the authorized people can open door by using card, face or fingerprint.

4.5.1 Preparations

Make sure that the following preparations have been made:

- Access control devices are correctly deployed. For details, see the corresponding user's manual of the device.
- Basic configurations of the platform have been finished. See "3 Basic Configurations" for details.
 - When adding access control devices, select **Access Control** for device category.
 - Optional) On the **Bind Resource** page, bind video channels for access control channels.
 - Personnel information is added correctly. For details, see "4.3 Personnel and Vehicle Management".

4.5.2 Configuring Door Groups

Door groups allow you to easily manage access permissions by granting them to people in batches. A normal user can only access a door group if it can access all the channels in the group. Administrators can access all door groups by default.

Procedure

<u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **App Config** section, select **Access Control** > **Door Groups**.



<u>Step 2</u> Click add, and then enter the group name, select a time template and a holiday schedule, select device channels, and then click **OK**.

After the time template and channels are configured, people assigned with the permission can only unlock the doors during the defined periods.

- In the Time Template drop-down list, select Create Time Template. For details, see "3.1.5 Adding Time Template".
- If you have added holiday plans, select one in the **Holiday Plan** drop-down list. You can also create new holiday plans. For details, see "4.5.8 Configuring Holidays".

4.5.3 Configuring Access Permission Groups

By adding multiple door groups to an access permission group, you can quickly assign people permissions to access all the channels in the door groups. Only administrators can edit the door groups in access permission groups.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **App Config** section, select **Access Control** > **Access Permission Group**.
- <u>Step 2</u> Click **Add**, and then configure the parameters.

Table 4-10 Parameter description

Parameter	Description
Access Permission Group Name	Enter a name for the group.
Door Groups	Select one or more door groups.
	Only the roles and their users can access this group.
Roles Allowed Access	ⓒ-재 Click 💿 to see the users assigned with the roles.

Step 3 Click OK.

<u>Step 4</u> Click 🖬 and select people to grant them access to the access control channels in batches.

• Add people by person groups. This is the most efficient way, provided that you have created person groups based on the access permissions. For details, see "4.3.2 Configuring Personnel Information".

Click **Add by Person Group**, select one or more groups, and then click **OK**. You can also select **Include Sub Groups** to include the people in the sub groups of the groups you select.

• Select the people you want to add. This is applicable to people in different person groups have the same access permissions.

Click Add by Person, select the people you want to add, and then click OK.



4.5.4 Configuring Public Passwords

Anyone with a pubic password can unlock associated doors. You can add up to 1,500 passwords.

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Only second-generation access control devices and video intercom devices support this function.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **App Config** section, select **Access Control** > **Door Groups**.
- Step 2 Click 🔂.
- <u>Step 3</u> Click **Add**, enter a name and a password, and then select the access control channels and video intercom devices as needed.

5 A	dd Public Password			
	Basic Info			
	Public Password Name: Building 1 Password:	Description: Confirm Password:		
3	Select Access Control Channel			
ŕ	Device Name/Channel Na Q	Selected (2)		÷
	T I II Root	Channel Name	Operation	
	 ▶	Deor1	• •	
	Select Video Intercom Device			
Savi	e Cancel			

Figure 4-27 Add a public password



4.5.5 Anti-passback

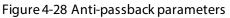
The anti-passback feature requires a person to enter and exit from the specific doors. For the same person, an entry record must pair with an exit record. If someone has entered by tailing someone else, which means there is no entry record, this person cannot unlock the door to exit.

Procedure

<u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **App Config** section, select **Access Control** > **Door Groups**.



- <u>Step 2</u> On the **Access Control** page, click **E**.
- <u>Step 3</u> Click the **Anti-passback** tab.
- Step 4 Click Add.
- <u>Step 5</u> Configure the parameters, and then click **OK**.



Device:	Anti-passback Name:
ASC101	▼ Anti-passback
	Dent Transfer to b
Time Template:	Reset Time (min):
Remarks:	
Anti-passback Door Groups 🛽 Afte	
Search Q	🕂 Add
🕶 🛃 🖳 ASC101	Group 1 Group 2
V Z Door1	Door1 Reader 1 Door1 Reader 2
Reader 1	
Reader 2	

Table 4-11 User selection information description

Parameter	Description	
Device	You can select the device to configure	the anti-passback rules.
Anti-passback name	You can customize the name of an ant	i-passback rule.
Reset Time(min)	The access card becomes invalid if an anti-passback rule is violated. The reset time is the invalidity duration.	M When the selected device is a
Time Template	You can select the time periods to implement the anti-passback rules.	multi-door controller, you must set up these parameters.
Remark	Description information.	



Parameter	Description	
Group X (X is a number)	The group sequence here is the sequence for swiping cards. You can add up to 16 readers for each group. Each group can swipe cards on any of the readers.	
Step 6 Click O, and	then it changes to 🔼 The function is	enabled.

4.5.6 Synchronizing Records

If access control devices go offline and then online again, the platform can automatically synchronize records from them during that period to make sure that access control records are complete and up-to-date.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **App Config** section, select **Access Control** > **Auto Sync Records**.
- <u>Step 2</u> Click **Click** to enable the function.
- <u>Step 3</u> Set up a time, and then click **Save**.

The platform will synchronize records on a regular basis.

<u>0-vr</u>

Click **Extract Now** to immediately synchronize records from devices to the platform. How records are synchronized:

- If records on a device was automatically synchronized to the platform, then the platform will synchronize all records from the time of the latest record from the last automatic synchronization to the time you set. For example, the latest record from the last automatic synchronization was on 2022-10-18 16:00, time of automatic synchronization is set to 04:00 every day. The device was offline on 2022-10-18 18:00, and then reconnected on 2022-10-20 16:00, then the platform, on 2022-10-21 04:00, will synchronize the records generated on the device from 2022-10-18 16:00 to 2022-10-21 04:00.
- If records on a device has not been automatically synchronized to the platform, and the device went offline and online multiple times, the platform will synchronize all the records from the time of the latest record uploaded before the first offline, to the time you set. For example, time of synchronization is set to 04:00 every day. The device first goes offline on 2022-10-18 16:00 with the latest record uploaded on 2022-10-18 15:00. Before the time of synchronization, the device goes offline and online multiple times. Then on 2022-10-19 04:00, the platform will synchronize the records generated on the device from 2022-10-18 15:00 to 2022-10-19 04:00.
- If records on a device has not been automatically synchronized to the platform, and records were not generated on the device and uploaded to the platform when the device is online, then on the time of synchronization, the platform will synchronize the records on the device within the past 24 hours.



4.5.7 Configuring Time Templates

Configure time templates for different access control strategies. For example, employees can only gain access to their offices during work time.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **App Config** section, select **Access Control** > **Door Groups**.
- Step 2 Click 🖪.
- <u>Step 3</u> Click **Create Time Template** from the **Time Template** drop-down list when adding or editing a door group.

lime Template Name		mplate Detai									C				
All-Period Template	Time Ter	nplate Name:									Copy F				
Weekday Template															
Weekend Template															
+ Create Time Template	e		00:00	02:00	04:00	06:00	08:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	24:00
	ශ	Monday:													\$
	e	Tuesday:													ø
	e	Wednesday:													₽
	e	Thursday:													ø
	ප	Friday:													¢
	e	Saturday:													¢
	eə	Sunday:													¢

Figure 4-29 Time template

<u>Step 4</u> Enter the template name, set time periods, and then click **OK**.

There are two ways to set time periods:

- Drag your mouse cursor on the time bars to select time sections. To remove a selected time section, click on the time bar and drag.
- Click , and then set time periods in the **Period Setup** dialog box.

- You can add up to 6 periods for each day.
- To use an existing template, select the **Copy From** check box and then select a template in the drop-down list.

4.5.8 Configuring Holidays

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **App Config** section, select **Access Control** > **Door Groups**.
- Step 2 Click Add Holiday Schedule from the Holiday Schedule drop-down list when adding or



editing a door group.

Figure 4-30 Add a holiday schedule

• Schedule:					
	06:00 08:00 10:00 12:	00 14:00 16:00 18:00 2	0:00 22:00	24:00	
Holiday: 0 Up to 16 hol					
Holiday List 🛨			Q	Selected (0)	
Holiday Name	Date	Operation			
aaa	2021-07-15 ~ 2021-07-	16 🖌 🛢			

<u>Step 3</u> Configure the parameters.

- 1. Enter a holiday schedule name.
- 2. Configure the periods in the **Schedule** section.
- 3. Click 💽 to add a holiday: Enter the holiday name, set a start date, and how many days this holiday lasts, and then this holiday will be effective within the periods you set from the previous step.
- Step 4 Click Add.

4.5.9 Configuring Access Control Devices

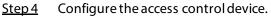
After an access control device is added, and if it is online, you can restart it, and synchronize its time with the platform.

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **Basic Config** section, select **Device**.
- <u>Step 2</u> Click 🚟.
- <u>Step 3</u> Select an access control device from the device tree.



Figure 4-31 Select an access control device

5				
Config			220	
	Q	•	IP Address:	Software Version:
▼ 🖬 Root			100.01.00	
▶ aa				
🕨 💼 test-dms		onfig		
🕨 💼 Build3		Restart	Device	
▼				
Þ 🛄 220				
▶ 📅 pyf-1				
🕨 🔥 root				



- Click **Restart Device** to restart the device.
- Click 🙆 at the upper-right corner to go to the web page of the device.

4.5.10 Configuring Door Information

You can configure door status, Always-Open or Always-Close period, alarm and more.

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **Basic Config** section, select **Device**.
- <u>Step 2</u> Select a door channel in the device tree, and then click **Door Config** on the right.
- <u>Step 3</u> Configure door information, and then click **OK**.





Figure 4-32 Door configuration

Door Config			
Reader Direction:			
In Reader 1 🛱 Out Reader 2			
Mode:			
Normal	-		
NO Period:		NC Period: 🕒	
Enable Door Sensor:			
Enable Alarm: 🔁			
🗹 Duress 🛛 Unsuccessful Atte	empts Exceedin	g	
Public Password:			
Unlock Duration:		Unlock Timeout:	
5	sec	5	sec
Unlock Method:			
OR	• ⑦		
🔽 Card 🛛 🔽 Fingerprints	Password	Face	

 \square

The page is only for reference, and might vary with different access control devices.

Table 4-12 Parameters description

Parameter	Description	
Reader Direction	Indicates the in/out reader based on the wiring of ACS.	
Door Status	Set access control status to Normal, Always Open, or Always Close.	
NO Period	If enabled, you can set up a period during which the door is always open.	
NC Period	If enabled, you can set up a period during which the door is always closed.	
Door Sensor Enable	You can only enable intrusion and timeout alarms when the door sensor is enabled.	
Enable Alarm	 Intrusion: If the door is unlocked by methods you have not configured, the door contact is split and triggers an intrusion alarm. Unsuccessful Attempts Exceeding Limit: If failed to unlock the door for certain times, an alarm will be triggered. Duress: Entry with the duress card, duress password, or duress fingerprint triggers a duress alarm. Timeout: Unlock duration timeout triggers a timeout alarm. 	
Public Password	Enable this function, and then you can use a public password to unlock the door. For how to configure a public password, see "4.5.4 Configuring Public Passwords".	



Parameter	Description	
Unlock Duration	Sets up for how long the door will unlock. The door locks automatically after the duration.	
Unlock Timeout	Unlock duration exceeding the Unlock timeout triggers a timeout alarm.	
Unlock Method	You can use any one of the methods, card, fingerprint, face, and password, or their combinations to unlock the door.	
	• Select And , and select unlock methods. You can only open the	
	door using all the selected unlock methods.	
	• Select Or and select unlock methods. You can open the door in	
	one of the ways that you configured.	
	 Select Unlock by period and select unlock mode for each time period. The door can only be opened by the selected method(s) within the defined period. 	

4.6 Video Intercom

4.6.1 Preparations

Make sure that the following preparations have been made:

- Access control devices are correctly deployed. For details, see the corresponding user's manuals.
- Basic configurations of the platform have been finished. To configure, see "3 Basic Configurations".
 - When adding video intercom devices on the **Device** page, select **Video Intercom** as the device category.
 - When adding access control devices that support intercom, select Device Category to Access Control in Login Information, and then select Door Station access Controller or Fence Station Access Controller according to the type of your device.

4.6.2 Call Management

Create call group, management group and relation group respectively and define restricted call relations. This function is only available for administrators.

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Click 💿 on the page of call group, management group or relation group, the system will restore management group and relation group to their original status.

4.6.2.1 Configuring Call Group

Only devices in the same call group can call each other.

• A call group will be automatically generated after you add to the platform a VTO or access control device that supports intercom. All VTHs in the same unit will also be automatically added to the group, then the devices in the group can call each other.



- A call group will be automatically generated after you add a second confirmation station to the platform. Add the VTHs in the same house to the group, then the second confirmation station and the VTHs can call each other.
- A call group will be automatically generated after you add a fence station to the platform. All the VTHs on the platform will be automatically added to the group by default, then the fence station and the VTHs can call each other. You can also click *log to edit the VTHs in the group, so that the fence station can only call certain VTHs.*
- After added to the platform, VTHs will be automatically added to corresponding groups if they are associated with VTOs, second confirmation stations, or fence stations, so that they can call each other.

4.6.2.2 Adding Manager Group

Divide administrators into different groups and link them to call groups in different combinations. This is useful when certain administrators can only answer calls from certain devices. Administrators include VTS and users with permissions to use the video intercom function and operate the devices. VTS will be automatically added to the default manager group after added.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **App Config** section, select **Video Intercom**.
- <u>Step 2</u> Click 🌉.
- Step 3 Click Manager Group Config.
- Step 4 Click Add Group.
- Step 5Enter group name, select administrator account or VTS, and click **OK**.The added management group is displayed in the list.



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- To transfer members, click 📝 and move the member to other groups.
- To manage group members, click I to add or delete group members.

Add Manager Group				×
G	roup Name:			
Control Permissions		Selected(0)		¥
	Q			
Select All				
system				
0000001				
0000002				
123				
🗌 clw				
pyf				
		·		
			ОК	Cancel

Figure 4-33 Edit manager group

4.6.2.3 Configuring Relation Group

Background Information

Link call groups and manager groups, and VTOs or VTHs in a call group can only call administrators or VTSs of a linked manager group. There are 2 types of relations:

• A call group links to 1 manager group.

All online administrators in the manager group will receive the call when any device is calling. If an administrator answers, it will stop ringing for other administrators. The call will only be rejected if all administrators reject it.

A call group links to multiple manager groups.
 Priorities vary for different manager groups. When any device is calling, all online administrators in the manager group with the highest priority will receive the call first. If no one answers for 30 seconds, then the call will be forwarded to the manager group with the second highest priority. If still no one answers, the device will prompt that there is no response for the call.

Procedure

- Step 1 Log in to the DSS Client. On the **Home** page, click **N**, and then in the **App Config** section, select **Video Intercom**.
- Step 2 Click 🚇.
- Step 3 Click **Relation Group Config**.



Step 4 Click Add.

<u>Step 5</u> Enter the group name, and then select one or more call groups and manager groups.

		p Name: ecurity Team A				
Call Group		Manager Group				
	Q	Search C	۶	elected (2)		
Select All		Select All	N	lanager Group	Ор	eration
Vnit VTO Group1 (9#9#1001)		Default Manager Group	(9)	22(2)	Ť	+
Unit VTO Group2 (2#4#8001)		2 111(2)		11(2)	Ť	+
Unit VTO Group3 (2#3#8001)		222(2)				
Fence VTO Group1 (99#8#8001						

Figure 4-34 Add a group relation

\square

Because only up to 2 manager groups will receive a call, we recommend you select no more than 2 manager groups.

<u>Step 6</u> Click Cli

4.6.3 Configuring Building/Unit and Call Mode

Background Information

Make sure the status of building and unit of the DSS client is the same as the VTO. If building and unit are enabled on the platform, they must also be enabled on the device, and vice versa; otherwise, the VTO will be offline after being added. That also affects the dialing rule. Take room 1001 unit 2 building 1 as an example, the dialing rule is as follows:

- If building is enabled while unit is not, the room number is "1#1001".
- If building is enabled, and unit is enabled as well, the room number is "1#2#1001".
- If building is not enabled, and unit is not enabled either, the room number is "1001".

Procedure

<u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **App Config** section, select **Video Intercom**.

- <u>Step 2</u> Click 💷.
- <u>Step 3</u> Enable or disable building and unit as required, and then click **OK**.



\wedge

This configuration must be the same as the device configurations. Otherwise, information of the devices might be incorrect. For example, if only **Building** is enabled on a VTO, you must only enable **Building** on the platform.

Step 4 Click Save.

4.6.4 Synchronizing Contacts

Synchronize contacts information to VTO and then you can view contacts on the VTO or its web page.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **App Config** section, select **Video Intercom**.
- Step 2 Click 🗖.
- <u>Step 3</u> Select an organization node (VTO), and then click **Send Contacts**.
- Step 4Select one or more VTHs as needed, and then click **OK**.Now you can view contacts on the VTO or web page.

4.6.5 Setting Private Password

Set room door passwords so that the room door can be opened by entering password on the VTO (outdoor station).

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Make sure that contacts are sent to the VTO; otherwise you cannot set private password.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **App Config** section, select **Video Intercom**.
- <u>Step 2</u> Click 🌇.
- <u>Step 3</u> Select a VTO, and then you can see all the VTHs linked to this VTO.
- <u>Step 4</u> Select a VTH and click **[7]**, or select several VTHs and click **Change Password**.
- <u>Step 5</u> Enter password, and then click **OK**.

You can use the new password to unlock on the VTO.



The format should be **room number + private password**, and the room number consists of 6 digits. For example, a person who lives in 1001 with the private password of the VTO in the building being 123456, can enter **001001123456** to unlock the door.

4.6.6 App User

You can view information of App users, freeze user, modify login password and delete user.

Prerequisites

App users have registered by scanning the QR code on the platform or the VTH. For details, see the user manual of the App.

Procedure

<u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **App Config** section, select **Video Intercom**.

<u>Step 2</u> Click 🔤.

Operation	Description
Freeze APP user	The App user cannot log in for 600 s after being frozen. The account will be frozen when invalid password attempts exceeds 5 by an App user.
Change APP user login password	 Click and enter a new password on the Reset Password page, and then click OK. The password must be 8 to 16 characters and include numbers and letters. Click to display password, or The password.
Refresh the list of App users	Click Refresh to display the App users that recently registered.
Delete APP user	Click 📋 to delete App users one by one, or select multiple App users, click Delete , and then follow the instructions to delete the users.

4.7 Visitor Management

After visitor information is registered, the visitor can have access permission. Access permission is disabled after the visitor leaves.

4.7.1 Preparations

- Access control devices have been added into the platform.
- Basic configurations of the platform have been finished. To configure, see "3 Basic Configurations".



4.7.2 Configuring Visit Settings

Procedure

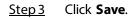
- Step 1 Log in to the DSS Client. On the **Home** page, click **N**, and then in the **App Config** section, select **Visitor**.
- <u>Step 2</u> Configure the parameters.
 - Automatic visit Enable the function, and then select the channels as needed. Visitors with appointment can verify their identities on the selected channels without registering.
 - Automatic leave
 - Enable the function, and then select the channels as needed. Visitors who are visiting can verify their identities on the selected channels to end their visits automatically.
 - Sign out regularly: Expired visits will be automatically ended at the defined time point.
 - Daily sign-out time: For visitors who do not arrive for their appointment before the daily sign-out time, their appointment will be canceled.
 - ◊ Sign out now: For visitors who missed their appointment when you click this button, their appointment will be canceled.
 - Default visitor permissions: Set default access permissions for visitors.
 - Email template: You can set up an email template and automatically send emails when visitors make an appointment, arrive for their appointment, and end their visit. You can customize the email subject and content with the visitor information, such as visitor's name and ID number.
 - Visitor pass remarks: Customize the content of remarks on a visitor pass.

Figure 4-35 Customize visitor pass remarks





<section-header><section-header><text><text><text><text><text>



4.8 Parking Lot

Control vehicle entrance and exit control with the functions such as ANPR, number of parking space, alarm, and search. In case the vehicle is not recognized by the ANPR camera, visitors can use VTO to call the management center, and then the management center can remotely open the barriers after verifying the identity of the visitor.

4.8.1 Preparations

Make sure that the following preparations have been made:

- Devices, such as ANPR cameras, VTOs, barriers, are added to the platform.
- Basic configurations of the platform have been finished. To configure, see "3 Basic Configurations".
 - When adding an ANPR camera, select Access ANPR Device as the device category.
 After you have added ANPR cameras, you can bind video channels to their channels. This is useful when you have installed other cameras at the entrance to view and record videos of



the entire scene, not just the vehicle. You can view video from the bound camera when checking the alarm details. For how to bind channels, see "3.1.3 Binding Resources".

- When adding an NVR, select **Encoder** as the device category.
- Select **Entrance ANPR** from **Features** for the corresponding NVR channels.
- When adding VTO, select Video Intercom as the device category.
 Also, you need to add the information of people and assign them permissions so that they can use the VTO normally. For details, see "4.3 Personnel and Vehicle Management".

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Make sure that the configuration of building and unit on the DSS client is the same as the device. If building and unit are enabled on the platform, they must also be enabled on the device, and vice versa. Otherwise, the VTO will be offline after being added. For details, see "4.6.3 Configuring Building/Unit and Call Mode".

 Snapshots taken by ANPR cameras are stored in the Images and Files disks. You must configure at least one Images and Files disk so that snapshots of vehicles can be normally displayed. For details, see "3.3 Configuring Storage".

4.8.2 Configuring Parking Lot

A parking lot includes parking spaces, entrances and exits, barrier control rules and other information. Link an ANPR camera for recognizing license plates, and a VTO for verifying identities.

4.8.2.1 Basic Information

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **App Config** section, select **Parking Lot** > **Parking Lot Configuration** > **Parking Lot Basic Config**.
- <u>Step 2</u> Click the root node named **Current Site**, and then click **Add**.
- <u>Step 3</u> Configure the basic information of the parking lot, and then click **Next Step**.

Parameter	Description	
Parking Lot Name	To differentiate from other parking lots.	
Enable Parking Space Counting	 Configure the total parking spaces and available ones. Total Parking Spaces: The total number of parking spaces in the parking lot. Available Parking Spaces: The number of parking spaces in the parking lot that are not in use. 	

Table 4-14 Parameter description



Parameter	Description
	First Character Rule
	 1 character added to the front of the plate number: It will still be considered as a match when an additional character is added to the plate number. For example, AB12345 is recognized as AAB12345. Missing the first character of the plate number: It will still be considered as a match when the first character is missing from the plate number. For example, AB12345 is recognized as B12345. Last Character Rule
Fuzzy Match of Entrance & Exit Plate No. Snapshot	 1 character added to the end of the plate number: It will still be considered as a match when an additional character is added to the end of the plate number. For example, AB12345 is recognized as AB123455. Missing the last character of the plate number: It will still be considered as a match when the last character is missing from the plate number. For example, AB12345 is recognized as AB12345. Misread Character Rule: It will still be considered as a match if a character is recognized incorrectly, but the number of characters are correct. For example, AB12345 is recognized as AB12345.
	When you enable multiple rules, the platform will check if each rule is satisfied. Only when one or more rules are satisfied will platform consider it to be a match. For example, 1 character added to the front of the plate number, and missing the first character of the plate number are both enabled. When the plate number AB12345 is recognized as AAB12345, it satisfied 1 character added to the front of the plate number, but not missing the first character of the plate number. This will be considered as a match. If the plate number AB12345 is recognized as AB112345, it does not satisfy both rules. This will not be considered as a match.
Auto overwrite when captured vehicle has not existed	If a vehicle entered the parking lot but has not exited, a new entry record will be generated when the vehicle is recognized to have entered again.

<u>Step 4</u> Configure the entrance and exit points, and then click **Next Step**.

The platform supports up to 4 entrances and exits.

1) Click 📑 or Add Entrance and Exit Point.

2) Enter a name, and then click **OK**.



- 3) If there is an entrance point, click 📑 next to **Entrance**.
- 4) Enter a name for the point, select a capture mode, and then add a camera, video intercom device (optional), or information display (optional).
 If limited by the surroundings, you can install two cameras for this point, and then set Capture Mode to Dual Camera to improve the successful rate of recognition number plates.

In **Dual Camera** mode, the vehicles captured by the two cameras within the defined **Dual Camera Coordination Time** will be considered as the same one. You must configure the time properly according to the installation positions of the cameras and the distance between them.

🔀 Entrance 🕈
Entrance 💼
Entrance Name
Altimate
License Plate Snapshot and Recognition
Capture Mode
Single Camera 💿 Dual Camera
Dual Camera Coordination Time (1-5s):
3
Entrance/Exit Camera
The second second - intending
• Online 🖉 🗢
Information Display
The information display must be connected to the access ANPR camera through R5-485. You can log in to the camera web page to configure the display, and select platform mode.
Click to go to the c

Figure 4-37 Entrance point configuration

- 5) If there is an exit point, click 📑 next to **Exit**, and then configure the parameters. The parameters are similar to the ones in **Entrance**. For details, see the steps above.
- <u>Step 5</u> Configure the passing rules, and then click **Save and Exit**.
 - 1) Select a vehicle entrance rule, and then configure the parameters.



Table 4-15 Parameter description	er description
----------------------------------	----------------

Parameter	Description				
	Registered Vehicles Access Rule				
	Click Add, and then select By Parking Lot or By Point.				
	By parking lot: The vehicle groups will be added to all entrance				
	and exit points of the parking lot, and the vehicles in these				
	group can enter and exit through any entrance or exit.				
Pagistared Vahislas	By point: You can add different vehicle groups to different				
Registered Vehicles	entrance or exit points. For example, vehicle group is added to				
	East entrance but not South entrance, then the vehicles in the				
	group can only enter the parking lot through East entrance.				
	Allow Passage When Available Space is 0: After enabled,				
	vehicles are allowed to enter the parking lot even if there are				
	no available parking space.				
	Click Content to enable this function for an entrance point.				
	All vehicles can enter the parking lot.				
	• Vehicles on the Blocklist to Enter: After enabled, vehicles on				
	the blocklist are also allowed to enter the parking lot.				
	Registered Vehicles Access Rule				
	Click Add, and then select By Parking Lot or By Point.				
All Vehicles	By parking lot: The vehicle groups will be added to all entrance				
	and exit points of the parking lot, and the vehicles in these				
	group can enter and exit through any entrance or exit.				
	By point: You can add different vehicle groups to different				
	entrance or exit points. For example, vehicle group is added to				
	East entrance but not South entrance, then the vehicles in the				
	group can only enter the parking lot through East entrance.				



Parameter	Description	
	You can customize the passing rule for the entrance.	
	• For how to configure Registered Vehicles Access Rule and	
	Allow Passage When Available Space is 0, see the content	
	above.	
	All Vehicles: Select a default time template or create a new	
	one, and then any vehicle can enter the parking lot within the	
	specified duration.	
	For how to create a new time template, see "3.1.5 Adding Time Template".	
	Open Barrier by Verification: After enabled, the access	
	permission of a vehicle must be verified, and then an	
	administrator can manually open the barrier for it. If Open	
	Barrier by Card Swiping After Verification is also enabled,	
	the driver can swipe a card, and then the barrier will	
	automatically open if the can verify the driver to be the owner of the vehicle.	
	Open Barrier by Card Swiping Without Verification: The	
Custom	barrier will automatically open if the card has access	
	permission.	
	You can enable Open Barrier by Verification or Open Barrier	
	by Card Swiping Without Verification at the same time.	
	Available Parking Space Counting:	
	You must enable parking space counting and select Count	
	parking spaces by entering and exiting vehicles.	
	 Count each vehicle as an occupied parking space: The 	
	number of parking spaces decreases after a vehicle enters.	
	 Count each unregistered vehicle as an occupied parking 	
	space : The number of parking spaces decreases only after a	
	vehicle that is not registered to the platform enters.	
	 Custom: Configure which vehicles in the vehicle groups will be used to calculate parking spaces. 	

<u>_~~</u>

For how to configure vehicle groups, see "4.8.3 Managing Vehicle Group".

- Select a vehicle exit rule, and then configure the parameters.
 The parameters are similar to the ones in the entrance. See the previous step.
- 3) Enable **Send Plate No. to Devices**, and then add vehicle groups to the allowlist and blocklist.

Devices can use this information to determine which vehicles to let in when the platform is offline.



Related Operations

- 🖪: Edit the passing rules of the parking lot.
- P: Edit the available parking space of the parking lot.
- Z: Edit the information of the parking lot.
- 🗈: Delete the parking lot.

4.8.2.2 Event Parameter

Configure events for a parking lot so that you can receive notifications when alarms are triggered.

Procedure

- <u>Step 1</u> Configure an event, and you need to select **Parking Lot** as the type of event source. For how to configure an event, see "4.1 Configuring Events".
- <u>Step 2</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **App Config** section, select **Parking Lot** > **Parking Lot Configuration** > **Event Parameter Config**.
- <u>Step 3</u> Select a parking lot, the events that were configured will be displayed on the right.

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Blocklist alarm will not be displayed because there are no additional parameters to be configured.

<u>Step 4</u> Click Stoconfigure an event.



	Description		
Parking Overtime	 Description Overtime Parking Threshold: The unit is minute. Alarm will be triggered if a vehicle has parked for longer than the defined value. Detection Interval: How long the platform will check which vehicles have parked overtime. For example, select 5 minutes, then the platform will check whether there are vehicles that have parked overtime in the parking lot. If yes, then an alarm will be triggered. Vehicles to Trigger Alarms: All Vehicles: All vehicles will trigger alarms if they park overtime, but VIP vehicles are not included. If you enable Include VIP Vehicles, VIP vehicles will also trigger alarms when they park overtime. Non-registered Vehicle and Vehicle in the Blocklist: The vehicles whose information is not registered to the platform will trigger alarms when they park overtime. Custom: Enable Non-registered Vehicle, and then the vehicles whose information is not registered to the platform will trigger alarms when they park overtime; enable Registered Vehicle and add vehicle groups, and then the vehicles in these groups will trigger alarms when they park overtime; Pou can enable Non-registered Vehicle and Registered Vehicle ant Registered Vehicle ant Pointeme. 		
No Entry and Exit Record	 No Entrance/Exit Record Duration: The unit is day. If a vehicle has not entered or exited the parking lot for longer than the defined duration, then an alarm will be triggered. Statistical Time Point: The platform will start calculating the duration of a vehicle that has not entered or exited the parking lot on the defined time. Entrance and Exit Vehicle Group of Interest: Only calculate the duration for the vehicles in the vehicle groups that are added. 		

Table 4-16 Parameter description

4.8.3 Managing Vehicle Group

Add vehicles to different groups, so that you can quickly apply different parking lot functions to multiple vehicles at the same time.

Background Information

General, VIP, and blocklist are the default groups. If you need to use them, you can directly add



vehicles to them.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **№**, and then in the **App Config** section, select **Parking Lot** > **Vehicle Groups**.
- Step 2 Click Add.
- <u>Step 3</u> Enter a name and select a color for the group, and then click **Add**.
- Step 4 Click 🛃 of a group, or double-click a group and click **Select from Vehicle List**, select the vehicles that you want to add to the group, and then click **OK**.

4.9 Intelligent Analysis

Before using the people counting and scheduled report functions, you must configure them first.

- People counting: Create a people counting group and add multiple people counting rules from one or more devices to it. Then, you can view the real-time and historical number of people of the group.
- Scheduled report: Configure the when to send a report with historical people counting data, the email address to send the report to, and the content of the email.

4.9.1 People Counting Group

Create a people counting group, and then add multiple people counting rules from one or more devices. In Intelligent Analysis, you can view the real-time and historical number of people of the group.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **№**, and then in the **App Config** section, select **Intelligent Analysis** > **People Counting Group Config**.
- <u>Step 2</u> Click **Add** at the upper-left corner.



Figure 4-38 Add a people counting group

b Add People Counting Group	
Basic Info	
People Counting Group Name:	
Main Section	
Pass No. 🚭 🛛 Displays the number of people passing when the device in use supports this function.	
Calibrate Number of People Staying Everyday	
Calibrate Number of People Staying Now	
Calibration Time:	
Calibrated Number of People:	
Limit Number of People 🕒	
Red Light Threshold: 🚳 Yellow Light Threshold: 🖗	
* 100 * 70	
Rule	
Calart Duila 🕼 Calartad(N)	÷

<u>Step 3</u> Configure the parameters, and then click **Add**.

Parameter	Description	
People Counting Group Name	Name of the people counting group.	
Pass No.	 The calibration time can only be configured on the hour. It is the start of a counting cycle. The number of people staying everyday will be set to the defined value every day on the calibration time. After Pass No. is enabled, the number of people pass by will be displayed. The value will be set to 0 every day on the calibration time by default. 	
Calibrate Number of People Staying Everyday		
Calibration Time		
Calibrated Number of People		
Calibrate Number of People Staying Now	The number of people staying will be set to the defined value after the set to the set to the defined value after the set to the set to the defined value after the set to	
Calibrated Number of People	group is added. The value will not be calibrated everyday.	
Limit Number of People	When enabled, you can configure the red and yellow light threshold the people in the group.	
Red Light Threshold	When the number of people in the group reaches the defined	
Yellow Light Threshold	 value, the light will turn red. When the number of people in the group reaches the defined value but smaller than the red light value, the light will turn yellow. 	
Rule	Select the devices whose people counting rules you want to include in the group, and then their data will be combined together.	

Table 4-17 Parameter description



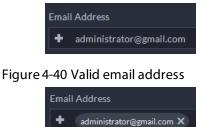
4.9.2 Scheduled Report

Historical data will be sent on a regular basis to one or more email address that you set on the scheduled time.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **№**, and then in the **App Config** section, select **Intelligent Analysis** > **People Counting Group Config**.
- <u>Step 2</u> Configure one or more types of report.
 - Daily report: Data from yesterday will be sent to your email at a defined time. If set to 03:00:00, the data from the day before (00:00:00–23:59:59) will be sent to your email at 03:00:00 every day.
 - Weekly report: Data from last week will be sent to your email at a defined time. If set to 03:00:00 on Wednesday, the data from Wednesday to Tuesday of each week will be sent to your email at 03:00:00 every Wednesday.
 - Monthly report: Data from last month will be sent to your email at a defined time. If set to 03:00:00 on 3rd, the data from 3rd of last month to 2nd of the current month will be sent to your email at 03:00:00 on 3rd of each month.
- <u>Step 3</u> Configure one or more email addresses to send the report to, and the content of the email.
 - 1) Click 📑 to select the users that have been configured email addresses, or enter an email address, and then press Enter.

Figure 4-39 Invalid email address, you must press Enter



- 2) Configure the content of the email.
- <u>Step 4</u> Send the report.
 - Click **Send Now** to immediately send the report that you configured.
 - Click **Save**, and then the report will be sent at the defined time.



5 Businesses Operation

5.1 Monitoring Center

The monitoring center provides integrated real-time monitoring applications for scenarios such as CCTV center. The platform supports live video, license plate recognition, target detection, access control, emap, snapshots, events, video playback, video wall, and more.

5.1.1 Main Page

Provides frequently used functions such as video and event and alarm. Log in to the DSS Client. On the **Home** page, click **H**, and then select **Monitoring Center**.

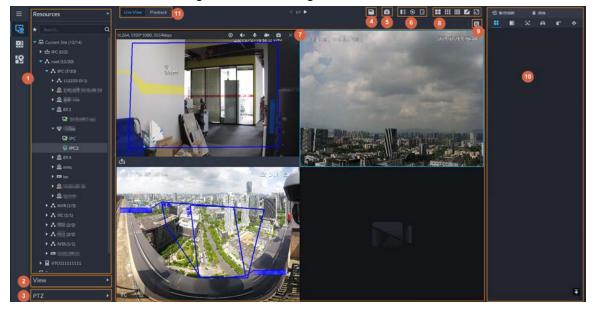


Figure 5-1 Monitoring center

Table 5-1 Interface description

No.	Parameter	Description	
1	Favorites and device tree	 List of resources including devices, browser, and maps. You can search for a device or channel in the search field. Fuzzy search is supported so that you can simply enter part of the name and then select the exact one from the provided name list. Add, delete or rename the favorites. You can also tour the channels in favorites. 	





No.	Parameter	Description	
2	View	 Save the current view of window split and video channels in the live view section, and name the view. You can directly select the view from the View tab to display it quickly next time. Channels under a view or view group can be displayed by tour (in turn). You can set the tour interval to be 10 s, 30 s, 1 min, 2 min, 5 min or 10 min. Maximum 100 views can be created. 	
3	PTZ	PTZ control panel.	
4	Save view	Click to save current video window as a view.	
5	Close all windows	Close all windows in live view.	
6	Channel control	Control the door channels in live view.	
7	Real-time videos	Drag a channel to the windows and view its real-time video.	
8	Window split mode and full screen	 Set window split mode. Supports 1, 4, 6, 8, 9, 13, 16, 20, 25, 36 or 64 splits, or click to set a customized split mode. If the live-view channel number is more than the number of current windows, then you can turn page(s) by clicking at the bottom of the page. Switch the video window to Full Screen mode. To exit Full Screen, you can press the Esc key or right-click on the video and select Exit Full Screen. 	
9	Event panel button	Display or hide the event panel.	
10	Event and alarms	Events and alarms.	
11	Live view and playback	 Live view: View real-time videos. Playback: View recordings. See "5.1.3 Playback". 	

5.1.2 Video Monitoring

View live videos. For ANPR and face cameras, you can view information of ANPR, face detection and face recognition. For video metadata cameras, you can view metadata information.

5.1.2.1 Viewing Live Video

View the live video of connected devices.

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This section only introduces viewing live video. For map live view, see "4.2 Configuring Map".

Procedure

Step 1 Log in to the DSS Client. On the **Home** page, click **H**, and then click **Monitoring Center**.

- Step 2 Click 🜆.
- <u>Step 3</u> View real-time video.

You can view live video in the following ways:



- Double-click a channel or drag the channel from the device list on the left to one window on the right.
- Double-click a device to view all channels under the device.

• Right-click a node, select **Tour**, and then set tour interval. The channels under this node will play in turn according to the defined interval.

- ◇ If the number of splits in the window is more than the number of online channels,
 video of all channels will be displayed in the window. Otherwise, click
 1/6 ▶ on
 the top of the page to turn pages.
- ♦ Close the on-going tour before starting live view.

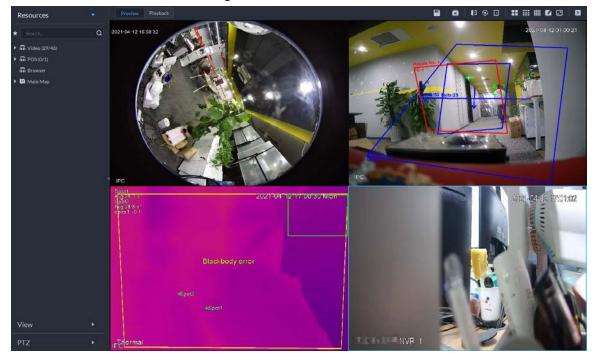


Figure 5-2 Live view

- <u>Step 4</u> You can perform the following operations during live view.
 - Display intelligent snapshots.

When viewing live video of face detection cameras, face recognition cameras, ANPR cameras, or target detection cameras, right-click the monitoring image, and then select **Start Picture Overlay**. The snapshot will be displayed on the upper-right corner of the live window. If no more images are captured, a snapshot will be displayed up to 5 s by default, and it will disappear after 5 s.

Point to the live window, and then select type of images to be displayed.

• Point to the video window, and then you can see the shortcut menu on the upper-right corner.



Figure 5-3 Live window

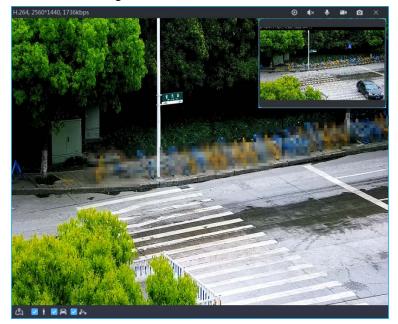


Table 5-2 Parameter description

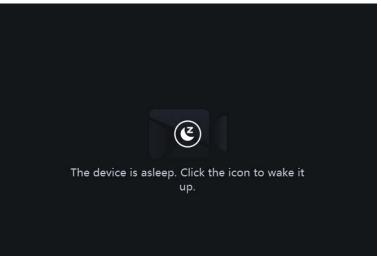
lcon	Name	Description	
Θ	Instant playback	Open/close instant playback.	
∢ ×	Audio	Open/close audio.	
Ŷ	Audio communication	Open/close two-way audio.	
	Local record	Click it, and then the system begins to record local file and yo can view the record time on the upper left. Click again, and then system stops recording and saves the file to your PC. Th recorded video is saved to\DSS\DSS Client\Record by defaul To change the storage path, see "8.3.5 Configure File Storage Settings".	
0	Snapshot	Take a snapshot. The snapshots are saved to\DSS\DSS Client\Picture by default. To change the snapshot storage path, see "8.3.5 Configure File Storage Settings".	
×	Close	Close the video.	

• Sleep function is supported for IPCs that use 4G mobile network to communicate and are solar-powered.

♦ When the device is asleep, you can click **((()** to wake it up.

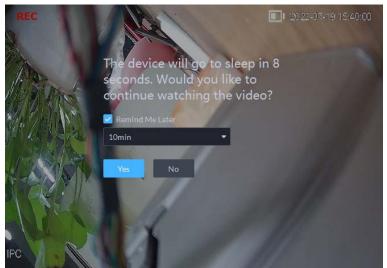


Figure 5-4 Wake up the device



The device will regularly request to sleep to save battery. When you are viewing its live video, the device will request to sleep every 2 minutes. When you are not viewing its live video, the device will request to sleep every 1 minute. You can accept or reject so that you can continue to watch live video. When rejecting the request, you can choose whether to delay the next request from the device.

Figure 5-5 Request to sleep from the device



• Right-click the live video, and then the shortcut menu is displayed.



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The menu varies depending on device functions.

Figure 5-6 Live video operation menu

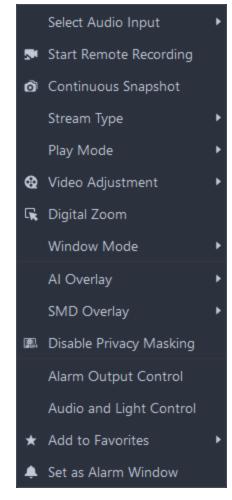


Table 5-3 Description

Parameters	Description	
Audio Input Selection	If the camera has more than one audio input channels, you can select one or select the mixed audio. This configuration is effective with both live view and playback.	
	Record the audio and video in the current window.	
Start Remote Recording	If a channel already has a center recording plan, you cannot start remote recording.	
	If a video storage disk is configured on the platform, the videos will be saved to the platform server.	
Continuous Snapshot	Take snapshots of the current image (three snapshots each time by default). The snapshots are saved to\DSS\DSSClient\Picture by default. To change the snapshot storage path, see "8.3.5 Configure File Storage Settings".	
Stream Type	Select stream type as required. Generally, main stream requires the most bandwidth, and sub stream 2 the least. The smaller the bandwidth is required by the stream, the smoother the video image	



Parameters	Description		
Play Mode	 Real-Time Priority: The video is in real-time, but video quality might be reduced. Fluency Priority: The video is fluent, but video lagging might occur. Balance Priority: Real-time priority or fluency priority, depending on actual conditions. Custom: Configure the video buffer time from Local Settings > Video. The larger the value, the more stable the video quality. 		
Video Adjustment	Adjust the brightness, contrast, saturation, and chroma of the video for video enhancement.		
Digital Zoom	Click it, and then click and hold the video image to zoom in on the image. Right-click the image, and then select Digital Zoom again to exit zooming in.		
Window Mode	Divide one window into 2 (1+1 mode), 4 (1+3 mode), and 6 (1+5 mode). One window will play the real-time video, and the others play different defined areas of the real-time video. If a device supports target tracking, you can enable this function in any window mode, the windows that play defined areas of the real- time video will follow the target when detected, until it disappears.		
Al Overlay	Displays rule lines, bounding box on targets, and detection area for intelligent rules, except for motion detection. After enabled, the configuration will be saved, and only works on the current channel in the live view and playback. Al overlay information is not displayed by default.		
SMD Overlay	Displays the bounding box on targets. After enabled, the configuration will be saved, and only works on the current channel in the live view and playback.		
Disable Privacy Masking	For a camera that supports privacy masking of human face, you can disable the masking here to view the face image.		
Alarm Output Control	Turn on or turn off alarm output channels.		
Audio and Light Control	You can turn on or off the audio and light channels one by one or at the same time.		
Add to Favorite	You can add the active channel or all channels into Favorite.		
Set as Alarm Window	When selecting open alarm linkage video In Preview (in live window) from Local Settings > Alarm , then the video will be displayed on the window which is set to alarm window. If multiple alarms are triggered, the video linked to the latest alarm will be opened. If the number of alarm windows is fewer than the number of linkage videos, the video linked to the earliest-triggered alarm will be opened. After enabling Set as Alarm Window , the window frame is displayed in red.		



Parameters	Description	
Fisheye View	 This function is available on fisheye cameras only. When changing the video stream, the fisheye view mode will maintain the current configuration. According to different installation methods, the fisheye view can be varied. In-ceiling mount: 1P+1, 2P, 1+2, 1+3, 1+4, 1P+6, 1+8. Wall mount: 1P, 1P+3, 1P+4, 1P+8. Ground mount: 1P+1, 2P, 1+3, 1+4, 1P+6, 1+8. 	

• To view real-time temperature of a point on the thermal camera view, hover over that point.

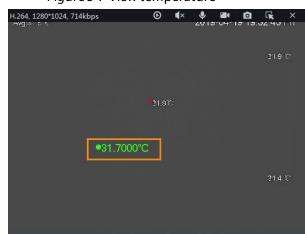


Figure 5-7 View temperature

• If a channel supports electronic focus, you can enable electronic focus for it on the platform to adjust video definition and size.



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The page might vary according to the lens types of cameras. Lens types include embedded zoom lens and external CS electronic lens. The following figure is for reference only.

Figure 5-8 Live view

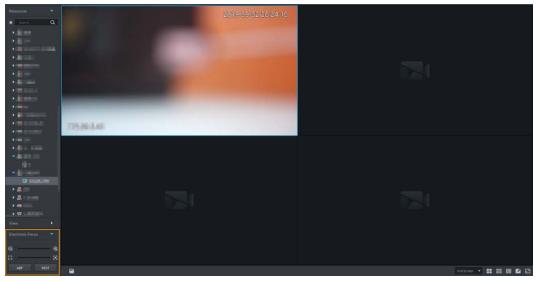


Table 5-4 Description

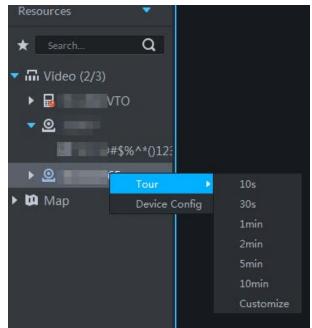
Parameters	Description	
Zoom +/- (for embedded zoom lens)	Zoom in/out. Click or click and hold 🔄 or 💽, or drag the slider 🔲 to the left or right to zoom in/out.	
Focus +/-	Adjust camera focus to achieve the best video definition. Click or click and hold 💽 or 💽, or drag the slider 🔟 to the left or right to adjust focus.	
Auto Focusing (for embedded zoom lens)	Adjust image definition automatically.	
ABF (auto back focusing, for external CS electronic lens)	C Other focusing operations are unavailable during auto focusing.	
Reset	When image definition is imperfect, or after many times of zooming or focusing operations, you can click Reset to reset the lens, so as to eliminate lens deviation.	

• Tour

On the live view page, right-click a device or node, select **Tour**, and then select an interval. The channels under this device or node will be played in turn at the predefined interval. You can also customize the interval.



Figure 5-9 Start tour



- ♦ To view remaining time of a channel during tour, check ♦ ••••••.
- ◊ To exit tour play, click <a>[.

• Region of interest (Rol)

A window can be divided into 4 or 6 regions during live view. One area is used to play live video and other regions are used to zoom in regional image.

On the live view page, right-click the window, select **Window Mode**, and then select a mode. For example, select a 1+3 mode.





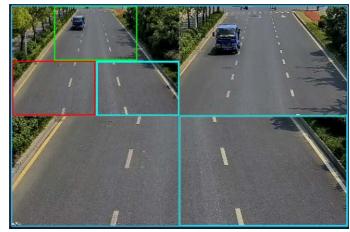
\square

To exit the **Window Mode**, right-click the window and then select



Figure 5-10 Split mode Select Audio Input Start Remote Recording Continuous Snapshot Stream Type Play Mode Play Mode Video Adjustment Digital Zoom Window Mode Stop Image Overlay Al Overlay SMD Overlay Add to Favorites Set as Alarm Window

Figure 5-11 1+3 mode



• View real-time events.

Click 🔳 to open the event panel, which displays the real-time alarm events of the channel.

- \diamond Click the event type on the top of the event panel to view the corresponding event.
- Click event record to view the snapshot. Video playback is also supported.
 Operations related to different events might be different.
- ◇ 💁: Refreshes events in real time. 💁: Stops refreshing.

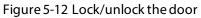


- ◇ Click ▲ to quickly view the latest events.
- Remotely unlock the door.

When viewing the access control channel, you can remotely control the status of the door on the upper-right corner: Normally open (1), normally closed (1), or normal status (2). You need to enter the login password of the current user before operation. Restore the door to normal status first, and then the door can be opened and closed according to defined period or through face recognition.

In the video window of the access control channel, you can remotely lock or unlock the door.



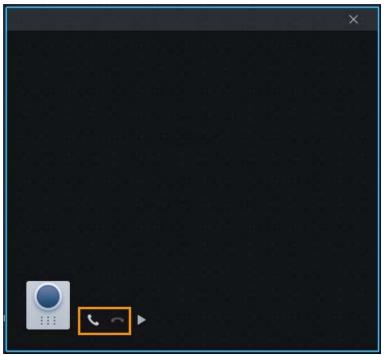


• Video intercom.

When viewing the video intercom channel, you can answer or hang up the call.



Figure 5-13 Video intercom



5.1.2.2 View

The current layout and resources can be saved as a view for quick play next time. Views are categorized into different groups, which include three levels: First-level root node, second-level grouping and third-level view. Tour is supported for first-level root node and second-level grouping. The tour time can be 10 s, 30 s, 1 min, 2 min, 5 min, 10 min, or customized (5 s–120 min). Up to 100 views can be created.

5.1.2.2.1 Creating View

Views are categorized into different groups, convenient for management and quick use. Group includes three levels, first-level root node, second-level grouping and third-level view.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click \blacksquare , and then select **Monitoring Center**.
- <u>Step 2</u> Click 🜆.
- <u>Step 3</u> Create a view group.
 - 1) Click the **View** tab.
 - 2) Right-click **View**, select **New Folder**.

Figure 5-14 Create a new folder

View		•
🔻 🗖 Viev	v	
:1	Tour	•
	New Fol	der

3) Enter a folder name, click **OK**.



<u>Step 4</u> Create view.

- 1) Customize the window split mode, view real-time videos of channels in the windows, and then click 🔳 on the upper-right corner.
- 2) Enter a name for the view, select a view group it belongs to, and then click **OK**.

5.1.2.2.2 Viewing View

• Live view

On the **Monitoring Center** page, select a view, double-click or drag it to the window to start viewing.

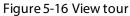
• Tour

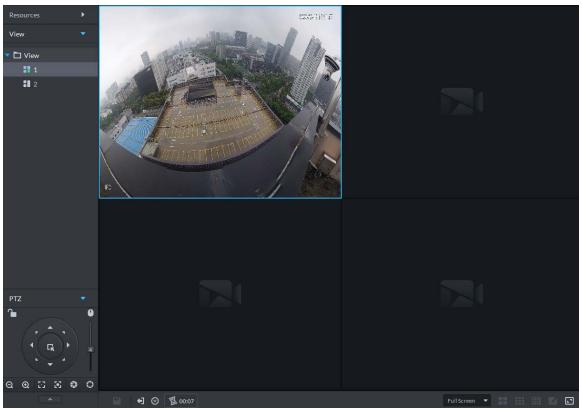
On the **Monitoring Center** page, right-click view group or root node, select **Tour** and tour period.

Resou	rces		•
View			•
▼ □ v [*]	-		
	Tour		10s
	New Fold	ler	30s
	ICVV I		1min
			2min
			5min
			10min
			Custom

Figure 5-15 Go to video tour page







- ♦ To view remaining time of a channel during tour, check <a>♦ 00.02.
- ♦ To pause, click .
- ◊ To exit tour play, click

5.1.2.3 Favorites

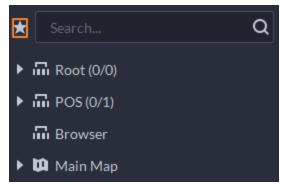
Add frequently used channels to favorites to realize quick search and call.

5.1.2.3.1 Creating Favorites

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click \blacksquare , and then select **Monitoring Center**.
- Step 2 Click 🜆.
- <u>Step 3</u> Create favorites.
 - 1) Click 📩.

Figure 5-17 Favorites





- 2) Right-click root node or created favorites, and then select **New Folder**.
- 3) Enter a folder name, click **OK**.
 - Lower-level favorites are generated under the selected root node or favorites.
- 4) Click 🗖.

The system goes back to the device list.

- <u>Step 4</u> Add channels to favorites.
 - In the device list, right-click a channel, and then select **Add to Favorite**.
 - Right-click the window with live video, and then select Add to Favorite.

5.1.2.3.2 Viewing Favorites

Live view

On **Monitoring Center** page, click **S**, open favorites list, select favorites or channels, doubleclick or drag to video window and the system starts to play live video.

• Tour

On **Monitoring Center** page, click **S**, open favorites list, select the root node or favorites, select **Tour** and then set duration. The system starts to play the channels in tour.

- ◊ To pause, click .
- ◇ To exit tour play, click <a>[.

5.1.2.4 PTZ

Operate PTZ cameras during live view on the DSS Client.

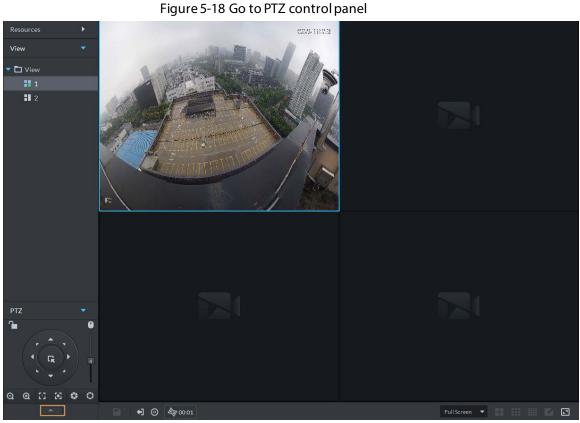
5.1.2.4.1 Configuring Preset

A preset is a set of parameters involving PTZ direction and focus. By calling a preset, you can quickly rotate the camera to the pre-defined position.

Procedure

- <u>Step 1</u> On the **Monitoring Center** page, open the video of a PTZ camera.
- Step 2 Click _____.





<u>Step 3</u> Click 📕.

<u>Step 4</u> Add a preset.

- 1) Rotate the PTZ camera to a specific point.
- 2) Click A , enter the preset name, and then click A.

Related Operations

Call a preset: Click 📕 of a specific preset, and then camera will rotate to the related position.

5.1.2.4.2 Configuring Tour

Set Tour to enable an camera to go back and forth among different presets. Set tour to enable camera to automatically go back and forth between different presets.

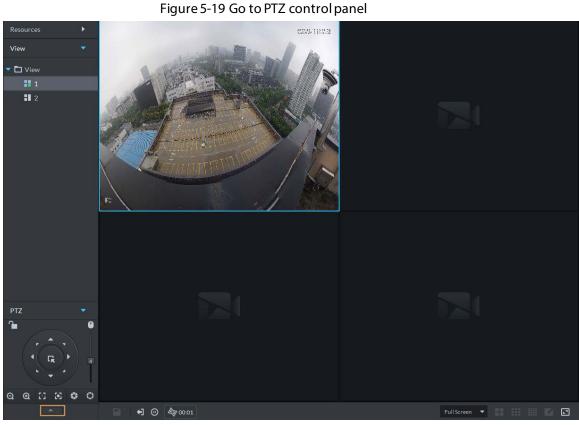
Prerequisites

You have added at least 2 presets.

Procedure

- <u>Step 1</u> On the **Monitoring Center** page, open the video of a PTZ camera.
- Step 2 Click _____.





- <u>Step 3</u> Click 🚬.
- Step 4 Click 🜌.
- <u>Step 5</u> Add tours.
 - 1) Enter tour name, and click 🛨.
 - 2) Select a preset from the drop-down list on the left.
 - 3) Repeat the previous 2 steps to add more presets.
 - 4) Click **OK**.

Related Operations

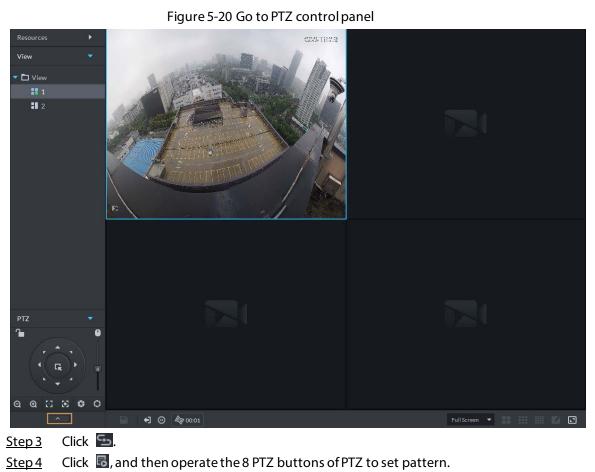
To start tour, click 💽, then camera goes back and forth among the presets.

5.1.2.4.3 Configuring Pattern

A pattern is a record of a consecutive series of PTZ operations. You can select a pattern to repeat the corresponding operations quickly. See pattern configuration instructions as follows.

- <u>Step 1</u> On the **Monitoring Center** page, open the video of a PTZ camera.
- Step 2 Click .





<u>Step 5</u> Click 🗟.

Related Operations

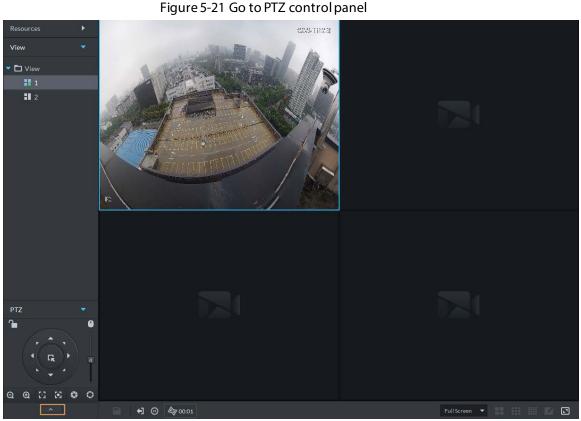
Call pattern: Click (), and then the camera will automatically repeat the pattern that you have configured.

5.1.2.4.4 Configuring Scan

The camera automatically scans horizontally at a certain speed.

- <u>Step 1</u> On the **Monitoring Center** page, open the video of a PTZ camera.
- Step 2 Click ____.





Step 3 Click .

- Step 4 Click PTZ button, and rotate PTZ to the left to a position, and then click K to set the left boundary.
- <u>Step 5</u> Continue to rotate PTZ to the right to a position, and then click Notes the right boundary.
- <u>Step 6</u> Click Start scanning, then PTZ will rotate back and forth automatically within the two boundaries.

5.1.2.4.5 Enabling/Disabling Pan

On the **Monitoring Center** page, open the video of a PTZ camera. Click **...**, and then click **...**. PTZ rotates 360° at a specified speed. Click **...** to stop camera rotation.

5.1.2.4.6 Enabling/Disabling Wiper

Enable/disable the PTZ camera wiper. Make sure that the camera supports wiper function. On the **Monitoring Center** page, open the video of a PTZ camera. Click ••••, and then click 😭 to turn on wiper. Click 😨 to turn off wiper.

5.1.2.4.7 Enabling/Disabling Light

Turn on/off camera light. Make sure that the camera supports light. On the **Monitoring Center** page, open the video of a PTZ camera. Click **••••**, and then click **?** to turn on light. After enabling light, click **?** to turn off light.



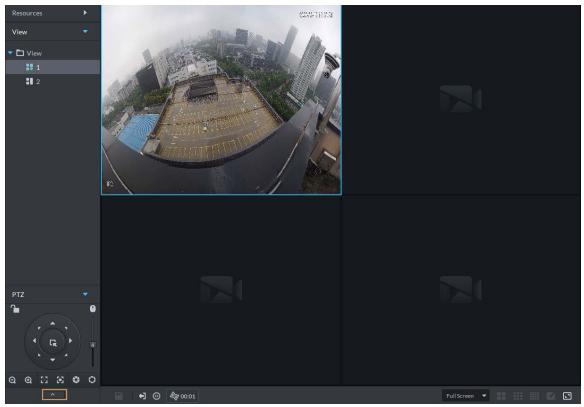
5.1.2.4.8 Configuring Custom Command

Background Information

Procedure

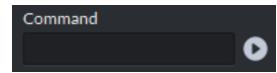
- <u>Step 1</u> On the **Monitoring Center** page, open the video of a PTZ camera.
- Step 2 Click ____.

Figure 5-22 Go to PTZ control panel



<u>Step 3</u> Enter your command in the **Command** box.

Figure 5-23 Custom command

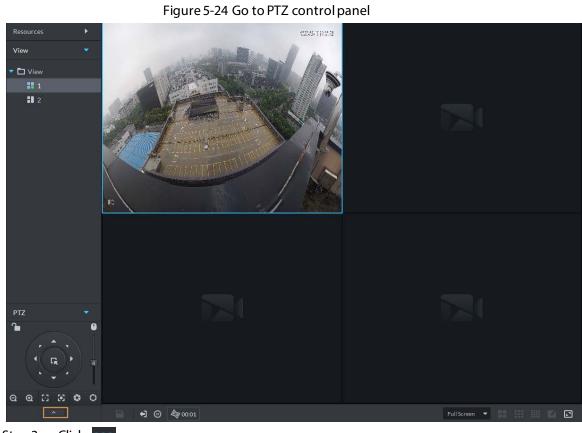


<u>Step 4</u> Click **O** to show the command functions.

5.1.2.4.9 PTZ Menu

- <u>Step 1</u> On the **Monitoring Center** page, open the video of a PTZ camera.
- Step 2 Click ____.

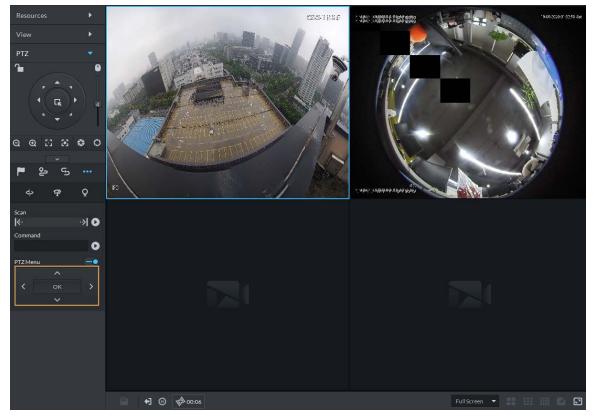




<u>Step 3</u>	Click	•••
<u>Step 4</u>	Click	\bigcirc

<u>Step 5</u> Use the panel to go to the menu configuration page.

Figure 5-25 Go to PTZ menu configuration page





Parameters	Description
\sim	Up/down.
>	Left/right. Point to set parameters.
	Click C to enable PTZ menu function. System displays main menu on the monitor window.
-•	Click 💻 to close PTZ menu function.
ОК	 It is the confirm button. It has the following functions. If the main menu has the sub-menu, click OK to enter the sub-menu. Point to Back and then click OK to go to go back to the previous menu. Point to Exit and then click OK to exit the menu.
Camera	Point to Camera and then click OK to enter camera settings sub-menu page. Set camera parameters. It includes picture, exposure, backlight, day/night mode, focus and zoom, defog, and default.
PTZ	Point to PTZ and then click OK to go to PTZ sub-menu page. Set PTZ functions. It includes preset, tour, scan, pattern, rotation, PTZ restart, and more.
System	Point to System and then click OK to go to system sub-menu page. Set PTZ simulator, restore camera default settings, video camera software version and PTZ version.
Return	Point to the Return and then click OK to go back to the previous menu.
Exit	Point to the Exit and then click OK to exit PTZ menu.

Table 5-5 PTZ menu description

5.1.2.5 Fisheye-PTZ Smart Track

Link a PTZ camera to a fisheye camera so that when the fisheye camera detects a target, the PTZ camera automatically rotates to it and track.

5.1.2.5.1 Preparations

Make sure the following preparations have been completed:

- Fisheye camera and PTZ camera are well deployed. For details, see corresponding user's manuals.
- Basic configurations of the platform have been finished. For details, see "3 Basic Configurations".
 - When adding cameras, select **Encoder** from **Device Category**.
 - Features of fisheye camera is set to Fisheye. For details, see "3.1.2.5.2 Modifying Device Information".

	5			
S All Device				
i≣ Basic Info	Channel Number: 1	(0-1024)		
Video Channel	Channel Name	Camera Type	Features	KeyBoard Code
单 Alarm Input Channel	100 C	Fixed Camera	Fisheye	
🛋 Alarm Output Channel				
POS Channel				

Figure 5-26 Set fisheye camera features

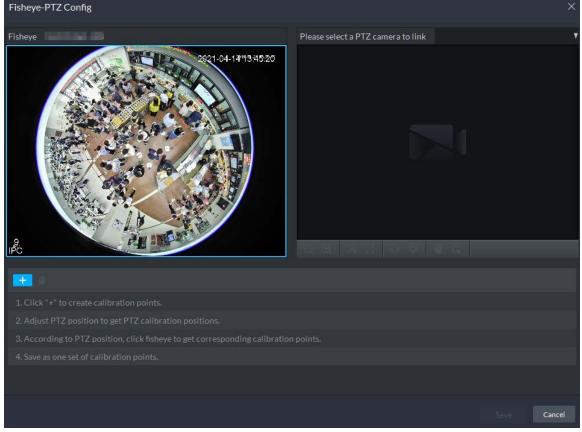


5.1.2.5.2 Configuring Fisheye-PTZ Smart Track

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **H**, and then click **Monitoring Center**.
- Step 2 Click 🜆.
- <u>Step 3</u> In the device tree on the left, right-click a fisheye camera, and then select **Modify Smart Track**.
- Step 4 Click I next to Please select a PTZ camera to link, and then select a PTZ camera.

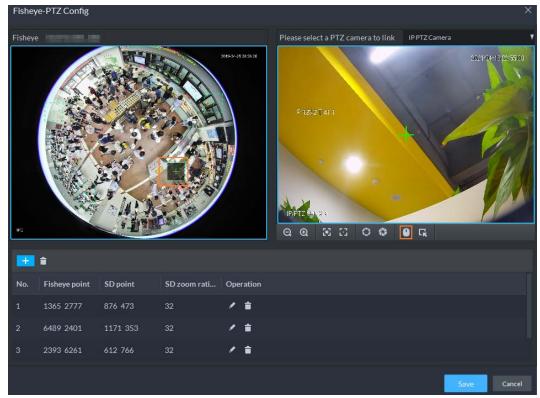
Figure 5-27 Set smart track rules (1)



Step 5 Click + and then move the softhe fisheye on the left to select a position. Click of the PTZ camera to find the position. Adjust the PTZ camera to find the position and move the PTZ to the center position (The green cross on the image).



Figure 5-28 Set smart track rules (2)



\square

- Select 3-8 mark points on fisheye camera.
- When you find mark point on the right side of the PTZ camera, click 🔄 to zoom out PTZ.
- Click 🖬 to 3D position, and when you click a certain point on the left side of PTZ camera, it will automatically move to the center.
- Step 6ClickImage: Click and a click of the calibration point.See above steps to add at least three calibration points. These three points shall not be on
the same straight line.
- Step 7 Click Save.

5.1.2.5.3 Applying Fisheye-PTZ Smart Track

Procedure

<u>Step 1</u> Log in to the DSS Client. On the **Monitoring Center** page, select the fisheye camera on the device tree and then right-click to select **Smart Track**.



Figure 5-29 Select a smart track channel

S 89	
D IPC	
P 95.177	
9	Add to Favorite
🗗 camera2	Smart Track
😪 IP PTZ Camer	Modify Smart Track

<u>Step 2</u> Click any point on the left of fisheye, PTZ camera on the right will automatically rotate to corresponding position.

5.1.3 Playback

Play back recorded videos.

5.1.3.1 Page Description

Log in to the DSS Client. On the **Home** page, click \blacksquare , and then click **Monitoring Center**. Click the **Playback** tab.

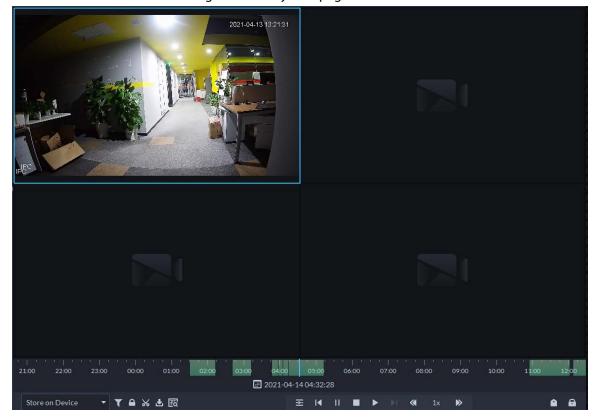


Figure 5-30 Playback page



Table 5-6 Description		
lcon	Description	
	Lock the video stored to the server within some period of designated channel. Locked video will not be overwritten when disk is full.	
8	Cut video	
₽	Download video	
T	Filter video according to record type.	
E	Make dynamic detection analysis over some area of the record image, and it only plays back the video with dynamic image in the detection area.	
Ŧ	Play multiple recorded videos from the same time. For example, you are playing recorded videos from 3 channels at the same time. Select channels, configure when you want to play the recorded video from, and then click this icon. All 3 channels will play recorded videos from the same time.	
I	Stop/pause playback	
	Frame by frame playback/frame by frame backward.	
🔇 1x 📡	Fast/slow playback. Max. supports 64X or 1/64X.	
10:00 12:00 14:00 16:00 2018-07-18 12:16:09	During playback, you can drag time progress bar to play back record at the specific time.	
Store on Server 🔹	Select the storage location of the video to be searched. Supports searching for the video on the platform server or storage device.	
A	Tag records.	
A	Lock records.	

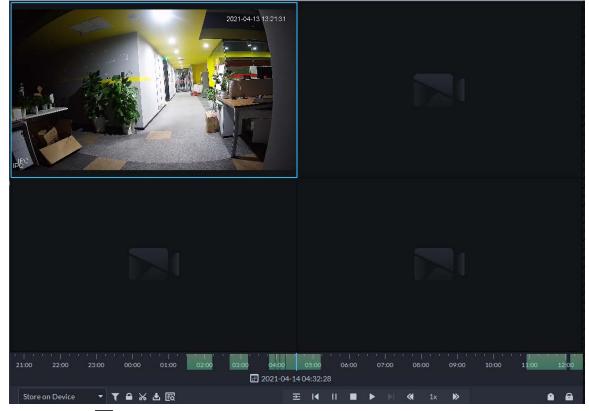
5.1.3.2 Playing Back Recordings

- Step 1 Log in to the DSS Client. On the **Home** page, click \blacksquare , and then select **Monitoring Center**.
- <u>Step 2</u> Click the **Playback** tab.
- <u>Step 3</u> Select a channel from the device tree, and then double-click it, or drag it to the window.
- <u>Step 4</u> Select the storage path of recorded video from Store on Server, and then click I to select the date.



Dates with blue dot means there are recordings.

Figure 5-31 Playback page



<u>Step 5</u> Click **I** to play the video.

<u>Step 6</u> Hover over the video, and then the icons appear. You can perform the following actions.

Figure 5-32 Video playback

Table 5-7 Description

lcon	Name	Description
	Take a recording on the device	Click this icon to start recording. The recorded video is stored locally. The saving path is C:\DSS\DSS Client\Record\ by default.
0	Take a snapshot on the device	Take a snapshot of the current image and save it locally. The saving path is C:\DSS\DSS Client\Picture\by default.
×	Close	Close the window.



lcon	Name	Description
শ্র	Map location	If the device has been marked on the map, click the icon to open the map in a new window to display map location of the device.
1	Search by snapshot	 Capture the target in the playback window. Click () to select the search method, and then the system goes to the page with search results. More operations: () Nove the selection area. () Adjust the size of the selection area. () Right-click to exit search by snapshot.
Ŧ	Тад	Tag the videos of interest for easy search in the future.

Right-click the video, and then you can perform the following actions.

Figure 5-33 Shortcut menu

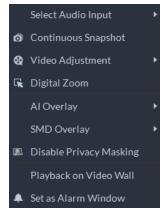


Table 5-8 Description

Parameters	Description
Select Audio Input	If the camera has more than one audio input channels, you can select one or select the mixed audio. This configuration is effective with both live view and playback.
Continuous Snapshot	Take snapshots of the current image (three snapshots each time by default). The snapshots are saved to\ <i>DSS\DSS Client\Picture</i> by default. To change the snapshot saving path, see "8.3.5 Configure File Storage Settings".
Video Adjustment	Adjust the brightness, contrast, saturation, and chroma of the video for video enhancement.
Digital Zoom	Click it, and then double-click the video image to zoom in the image. Double-click the image again to exit zooming in.
Al Overlay	The client does not show rule lines over live video by default. When needed, you can click AI Overlay and enable Rule Overlay and Bounding Box Overlay , and then the live video shows rule lines if the AI detection rules are enabled on the device. This configuration is effective with the current selected channel both in live view and playback.



Parameters	Description
SMD Overlay	Enable SMD Overlay to show target bounding box over live video. When SMD is enabled on the device, you can enable SMD Overlay for the device channel, and then the live video will display dynamic target bounding boxes. This configuration is effective with the current selected channel both in live view and playback.
Disable Privacy Masking	For a camera that supports privacy masking of human face, you can disable the masking here to view the face image.
Playback on Video Wall	Play the video of the current channel on video wall. Make sure that video wall is configured (see "5.1.5 Video Wall").
Set as Alarm Window	When selecting open alarm linkage video In Preview (in live window) from Local Settings > Alarm , then the video will be displayed on the window which is set to alarm window. If multiple alarms are triggered, the video linked to the latest alarm will be opened. If the number of alarm windows is fewer than the number of linkage videos, the video linked to the earliest-triggered alarm will be opened. After enabling Set as Alarm Window , the window frame is displayed in red.

5.1.3.3 Locking Videos

Lock the video stored on the server within a period of a specific channel. The locked video will not be overwritten when disk is full.

Procedure

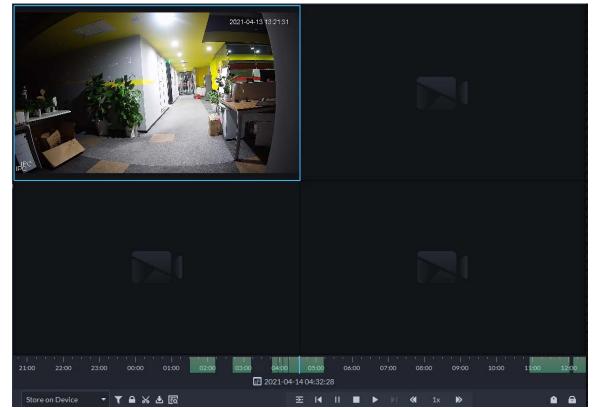
- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click \blacksquare , and then select **Monitoring Center**.
- Step 2 Click the **Playback** tab.
- <u>Step 3</u> Select a channel from the device tree, and then double-click it, or drag it to the window.

The search results are displayed.



Dates with blue dot means there are video recordings.

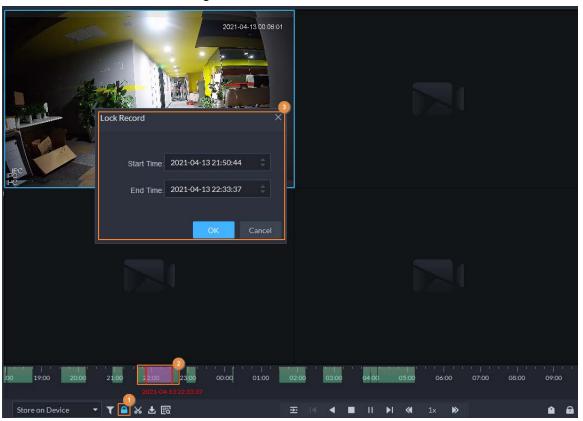
Figure 5-34 Playback page



<u>Step 5</u> Select a window that has recorded video, and then click and the bottom of the page, and then click on the timeline to mark the start point and end point of the video clip you need.



Figure 5-35 Lock record



<u>Step 6</u> Confirm the start and end time, and then click **OK**.

Related Operations

Click 🔄 on the lower-right corner, and then all the recordings locked by the user currently logged in to the client are displayed. Double-click one to quickly play the recording.

5.1.3.4 Tagging Videos

You can tag records of interest for quick search.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **H**, and then select **Monitoring Center**.
- <u>Step 2</u> Click the **Playback** tab.
- <u>Step 3</u> Select a channel from the device tree, and then double-click it, or drag it to the window.
- <u>Step 4</u> Select the storage path of recorded video from <u>Store on Server</u>, and then click **to** select the date.

The search results are displayed.



\square

Dates with blue dot means there are video recordings.



<u>Step 5</u> Point to the window that is playing record, and then click
 <u>Step 6</u> Name the tag, and then click **OK**.

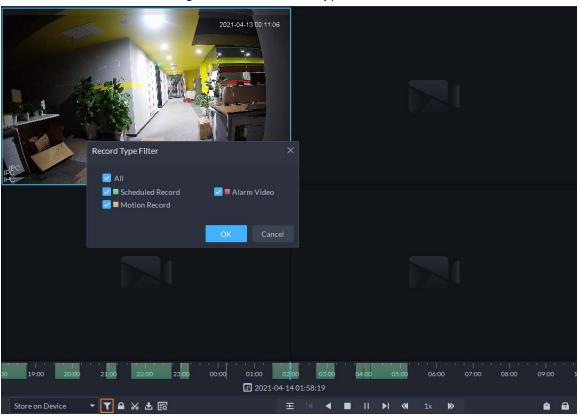
5.1.3.5 Filtering Recording Type

Filter video according to record type, record type includes scheduled record, alarm record, and motion detection record.

- Step 1 Log in to the DSS Client. On the **Home** page, click **H**, and then select **Monitoring Center**.
- <u>Step 2</u> Click the **Playback** tab.
- <u>Step 3</u> Select a channel from the device tree, and then double-click it, or drag it to the window.
- <u>Step 4</u> Click , select a record type (or types), and then click **OK**.
 The system only displays videos of the selected type. Each section on the time bar in green indicates a recorded video of the type you selected.



Figure 5-37 Filter record type



5.1.3.6 Clipping Videos

Procedure

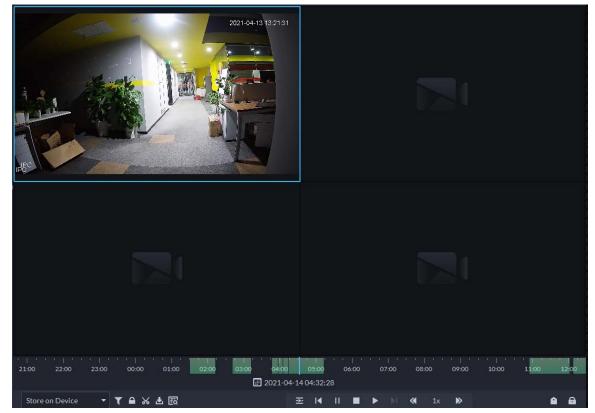
- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click \blacksquare , and then select **Monitoring Center**.
- <u>Step 2</u> Click the **Playback** tab.
- <u>Step 3</u> Select a channel from the device tree, and then double-click it, or drag it to the window.
- <u>Step 4</u> Select the storage path of recorded video from <u>Store on Server</u>, and then click is to select the date.

The search results are displayed.



Dates with blue dot means there are video recordings.

Figure 5-38 Playback page



<u>Step 5</u> Select a date with video recordings, and then click **S**.

<u>Step 6</u> On the timeline, click the point with green shade to start clipping, drag your mouse, and then click again to stop clipping.



		201111040.10			
Downlet	Dad Recorded Video	2021-04-13 00:19:35			
	Start Time: 2021-04-13 21:49:44 End Time: 2021-04-13 22:30:52				
	Transcode: 	• @ OK Cancel			
19:00 20:00 21:00	0 22:00 23:00 00x 2021-04-13 22:30:52	12332	03:00 04:00	05:00 06:00 07:00	· · · · · · · 08:00 09:00 10:
Store on Device 🔹 🏹	″ 🖴 😹 🛓 國	Ŧ		▶ ≪ 1x >>	ê 8
Step 7 Enter the	password of the cu	urrent user.			

Figure 5-39 Download recorded video

(Optional) Enable Transcode, and then select the file format. Step 8

Step 9 Click OK.

5.1.3.7 Smart Search

With the smart search function, you can select a zone of interest on the video image to view motion records within this section. The relevant camera is required to support Smart Search; otherwise the search result will be empty.

Procedure

Log in to the DSS Client. On the **Home** page, click \blacksquare , and then select **Monitoring Center**. Step 1

- <u>Step 2</u> Click the **Playback** tab.
- Select a channel from the device tree, and then double-click it, or drag it to the window. Step 3
- Select the storage path of recorded video from Store on Server 🔹 , and then click 🔳 to Step 4 select the date.

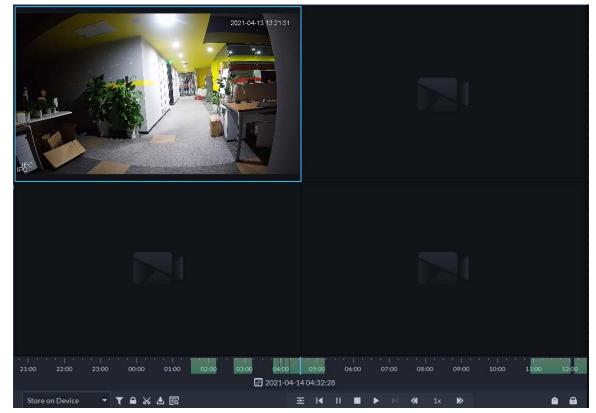
The search results are displayed.



 \square

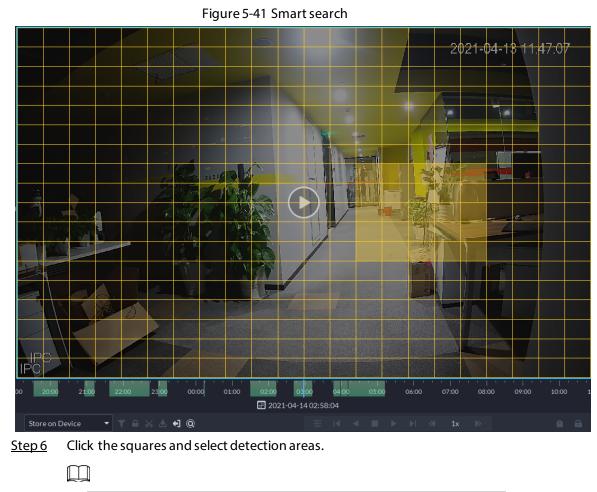
Dates with blue dot means there are video recordings.

Figure 5-40 Playback page



Step 5Select a window that has videos, click \blacksquare , and then select a type.The smart search page is displayed, with 22 × 18 squares in the window.





- Select a detection area: Point to image, click and drag to select a square.
- For the selected area, click again or select square to cancel it.

<u>Step 7</u> Click Cli

- If there are search results, the time progress bar will become purple and display dynamic frame.
- It will prompt that the device does not support smart search if the device you selected does not support the function.

Click 📱 to select the detection area again.

<u>Step 8</u> Click the play button on the image or control bar.

The system plays search results, which are marked purple on the timeline.

<u>Step 9</u> Click O to exit smart search.

5.1.4 Map Applications

On the map, you can view real-time videos of devices, locations of channels that trigger alarms, cancel alarms, and more.

Prerequisites

Make sure that you have configured a map. For details, see "4.2 Configuring Map".



Procedure

- <u>Step 1</u> Log in to the DSS Client, and on the **Home** page, select \blacksquare > **Monitoring Center**.
- <u>Step 2</u> Click 🛐.
- <u>Step 3</u> In the list of maps, click a map.
- <u>Step 4</u> View video, cancel alarms, and more.

 \square

The functions vary with the types of maps and devices. Slight differences might be found in the actual page.

Function	Description
Hide Device Name	Only displays the icons of devices or channels.
Zoom in and out on the map	Rotate the wheel or click • and • to zoom in and out on the map. When zooming out on the map, the same type of devices or channels will be merged together if they are near each other.
View live video	Click Pane , select devices on the map, and then click Q to view videos in batches; or click Q on the map, and then select to view videos.
Playback	Click Pane , select devices on the map, and then click @ to view videos in batches; or click @ on the map, and then select to view videos.
View alarms	Click to view all alarms that are triggered. Click an alarm and the map will zoom in to the location of the device that triggered the alarm. Alarms will be automatically canceled after 30 s.
Cancel alarms	Click a device on the map, and then select <a>[1] . The alarm will also be automatically canceled after 30 s.

Table 5-9 Function Description



Function	Description	
Monitor a radar	 The alarm area and detection area are displayed on the map by default. If a target is detected, its real-time location will be displayed in these areas. Click a radar channel, you can view its information and use the following functions: © ©: View the raster map on the radar. You can use this function to check if the maps on the radar and the platform are consistent. > ©: View the real-time videos of the linked PTZ cameras. > ©: View the real-time videos of the linked PTZ cameras. > ©: View the real-time videos of the channels bound to the radar. You can use this function to monitor the area around the radar. > > > 	
Show devices	Select the types of devices and channels you want to display on the map. Only You can click an alarm output channel to control whether it will output alarm signals.	
Visual area	If a device supports visual area, click Visual Area and double-click a device on the map to show its monitoring area.	
Initial angle	If a device supports initial angle, click Initial Angle and double-click a device on the map to show the initial angle.	
Measure distance	Select Box > Length , connect two points with a line on the map (double- click to finish drawing), and then the distance between the points is shown.	
Measure area	Select Box > Area , select a region on the map (double-click to finish drawing), and then the area is measured.	
Clear	To clear all markings on the map, click Clear .	
Add marks	Select Box > Add Mark , and then mark information on the map.	
Reset	Select Box > Reset to restore the map to its initial position and zoom level.	
Sub maps	Click 📓 to view the information of the sub map.	



Function	Description
	Double-click 📓, and then the platform will go to the sub map, where you can view the resources on it.

5.1.5 Video Wall

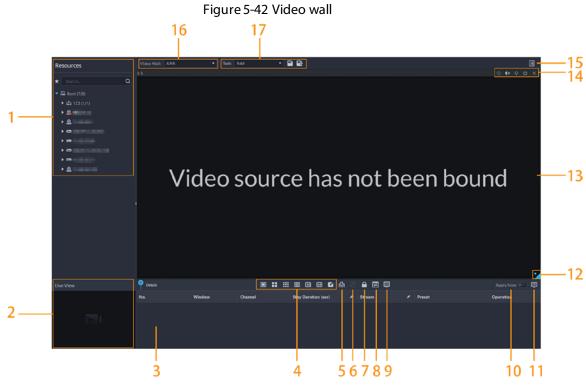
A video wall, which consists of multiple video screens, is used for displaying videos on the wall, instead of small PC displays.

Complete video wall settings before you can view videos on the wall.

5.1.5.1 Configuring Video Wall

5.1.5.1.1 Page Description

Before using the video wall function, you should get familiar with what you can do on the video wall page.



No.	Function	Description
1	Device tree	If you have selected Device and Channel in Local Settings >General, the device tree will display all devices and their channels.Otherwise, it will only display all channels.Click Image: The transformation of transformation of the transformation of transf
2	Live view	View live videos from channels.



No.	Function	Description
3	Detailed information	 View the channel information in a screen of the video wall. Click and view the live video of the channel in Live View on the lower-left corner. This can be helpful when you need to make sure whether it is the channel you want. Click and to adjust the order of channels. Click to adjust the channel from the screen. Click Stay Duration (sec) or to define the for how long the live video of the channel will be displayed during each tour. Click Stream or to change the video stream of the channel.
4	Window split	Select how you want the window to split.
5	Clear screen	Clear all the screens.
6	Stopping or starting all tours	Stop or start all tours.
7	Lock window	If multiple screens in a video wall are configured to be a combined screen, then you can perform video roaming on the window that has been locked.
8	Display mode	Display the real-time video, or a snapshot of the real-time video every 10 minutes of the bound channel in the screen. If nothing happens after operation, you can just click another screen, then click the screen you want, and then it should work properly.
9	Turning on or off screens	Turn on or off the screens configured for the currently selected video wall.
10	Decoding to wall immediately after configuration	When a task has been configured, the platform will immediately decode channels to the video wall.
11	Decoding to wall	Manually decode channels to the video wall.
12	Video wall layout	Click to view the layout of the current video wall.
13	Video wall display area	The display area for video walls.
14	Screen operations	Includes stopping tour for the screen, muting, pasting, maximizing or restoring the screen, and closing the screen,
15	Video wall plan	Configure a timed or tour plan for the video wall. For detailed procedures, see "5.1.5.1.5 Configuring Video Wall Plans".
16	Video wall selection	Select the video wall you want to configure.
17	Display task management	Add, save, and delete tasks.



5.1.5.1.2 Preparations

To display video on the wall, make sure that:

- Cameras, decoders and video wall are well deployed. For details, see the corresponding user's manuals.
- Basic configurations of the platform have been finished. For details, see "3 Basic Configurations". During configuration, make sure that:
 - When adding a camera, select **Encoder** from **Device Category**.
 - When adding a decoder, select Video Wall Control from Device Category.

5.1.5.1.3 Adding Video Wall

Add a video wall layout on the platform.

- <u>Step 1</u> Log in to the DSS Client, and on the **Home** page, select **Monitoring Center** > **.**
- <u>Step 2</u> From the **Video Wall** drop-down list, select **Add New Video Wall**.
- <u>Step 3</u> Enter **Video Wall Name**, and then select a window splicing mode.



\square

- Select a splicing mode from among 1 × 1, 2 × 2, 3 × 3, 4 × 4 or set a custom mode by clicking
- A multi-screen splicing mode is a combined screen by default. You can perform video roaming on it. For example, with a 2×2 combined screen, if you close 3 of them, the other one will be spread out on the combined screen. To cancel combination, click the combined screen, and then click
- To create a combined screen, press and hold Ctrl, select multiple screens, and then click
 .
- To clear the created screen, click
 Figure 5-43 Add a video wall

Add Video Wall			×
1. Select layout		1. Selec	t layou2. Bind channel
Basic Info			
Video Wall Plan Name:			
* 123	Screen0 Screen1 Combine1		
Remarks:	Screen2 Screen3		
, <u> </u>			
	4		■ Ø ♣
			lext Step Cancel

Step 4 Click Next Step.

<u>Step 5</u> Select the encoders which need to be bound in the device tree, and drag it to the corresponding screen.

 \square

- You can set whether to show ID in the screen, showscreen ID is disabled; click the icon and it becomes showscreen ID ==, which means that screen ID is enabled.
- Each screen in a combined screen must be bound with a decoding channel.

Step 6 Click **Finish**.

5.1.5.1.4 Configuring Video Wall Display Tasks

Display videos on the wall manually or in accordance with the pre-defined configuration.

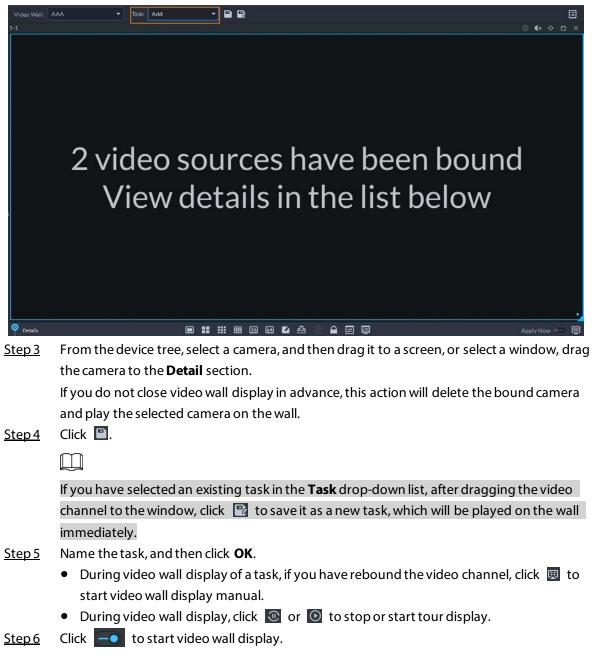
Procedure

<u>Step 1</u> Log in to the DSS Client, and on the **Home** page, select **Monitoring Center** > \blacksquare .





Figure 5-44 Add a video wall task



5.1.5.1.5 Configuring Video Wall Plans

Configuring Timed Plans

- <u>Step 1</u> Log in to the DSS Client, and on the **Home** page, select **Monitoring Center** > \blacksquare .
- <u>Step 2</u> Click 🔳 on the upper-right corner.
- Step 3 Hover over H, and then select 🕑



Figure 5-45 Set timed plan

	rigure 5 45 Set time	capian	
Timed Plan-jhhjhh			×
Plan Name:			
Task:	Start Time:	End Time:	
25 🔹	00:00:00 ≑	23:59:59 📮	Add
Task Name	Start Time	End Time	Operation
25	00:00:00	23:59:59	ŧ
			19 20 21 22 23
Enable this Timed Plan in	Remaining 25	-	Save Cancel

- <u>Step 4</u> Enter the plan name.
- <u>Step 5</u> Select a video task, set start time and end time, and then click **Add**.
 Repeat this step to add more tasks. The start time and the end time of tasks cannot be repeated.
 - \square

Select the **Enable This Timed Plan in Remaining Time** check box, and then set the task. The video wall displays the selected task during the remaining period.

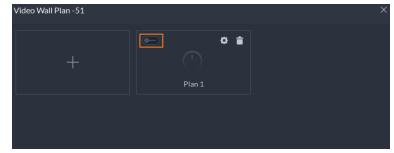
- Step 6 Click Save.
- <u>Step 7</u>

Click 💽 to start the plan.

\square

You cannot display multiple plans on the wall at the same time. When a plan is enabled, the previous plan on the wall is automatically terminated.

Figure 5-46 Enable timed plan



- Modify plan: 🔯.
- Delete plan: 📋

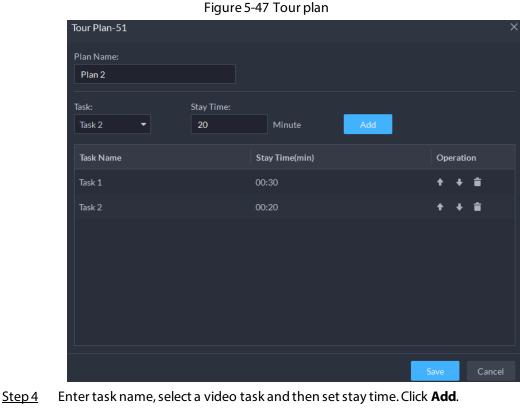


Configuring Tour Plans

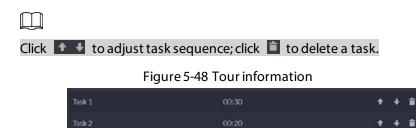
After setting video wall tasks, you can configure the sequence and interval of tasks so that they can automatically play in turn on the wall.

Procedure

- <u>Step 1</u> Log in to the DSS Client, and on the **Home** page, select **Monitoring Center** > **...**
- <u>Step 2</u> Click on the upper-right corner.
- Step 3 Hover over 📕 and then select 🙆



Repeat this step to add more tasks.



Step 5	Click	Save.

<u>Step 6</u> Click **C** to start the tour plan.



\square

You cannot display multiple plans on the wall at the same time. When a plan is enabled, the previous plan on the wall is automatically terminated.

Figure	5-49 Enable tour plan	
Video Wall Plan -51		×
+	C C C C C C C C C C C C C C C C C C C	

- Modify plan: Click 🔯.
- Delete plan: Click 📋

5.1.5.2 Video Wall Applications

\square

Make sure that decoder video ports are connected to the video wall screens.

5.1.5.2.1 Instant Display

Drag a camera to the video wall screen for instant display on the wall.

Background Information

The video wall display task is configured. For details, see "5.1.5.1.4 Configuring Video Wall Display Tasks".

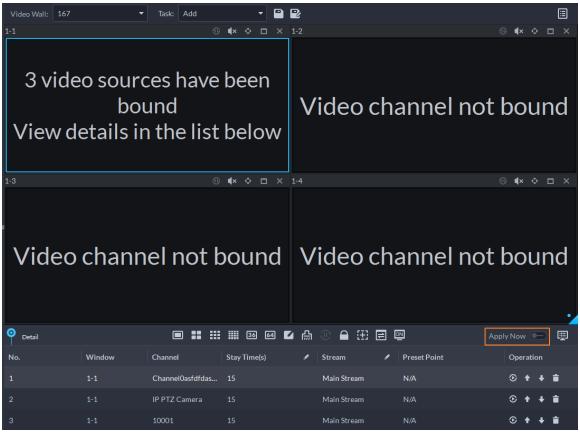
- <u>Step 1</u> Log in to the DSS Client, and on the **Home** page, select **Monitoring Center** > **...**
- <u>Step 2</u> In the **Video Wall** drop-down list, select a video wall.
- <u>Step 3</u> Click Click to start video wall display.
- <u>Step 4</u> Drag a camera from the device tree to a screen, or select a window and drag the camera to the **Detail** section.



\square

- A window can be bound to multiple video channels.
- The binding mode, which includes Tour, Tile, and Inquiry, can be set in Local Settings > Video Wall. For details, see "8.3.3 Configuring Video Wall Settings".
- For a fisheye camera, right-click it to select the installation mode for fisheye dewarping.

Figure 5-50 Bind video channel



<u>Step 5</u> Select a screen, and then click **Detail** to view detailed information about the screen and channel, including stream type, preset and display sequence.

- Click 🔯 to view live video of the current channel on the lower left.
- Click • to adjust sequence.
- Click 📋 to delete the video channel on the current window.

5.1.5.2.2 Video Wall Task Display

Display a pre-defined task on video wall.

- <u>Step 1</u> Log in to the DSS Client, and on the **Home** page, select **Tools** > **Video Wall**.
- <u>Step 2</u> In the **Task** drop-down list, select a task.
- Step 3 Operations available.
 - After changing the video channel that is being displayed, click 💷 at the lower-right corner before you can see the effect on video wall.
 - Click <a>[10]/ to pause or stop.
 - Select a screen, and then click **Detail** to view detailed information about the screen and



channel, including stream type, preset and display sequence.

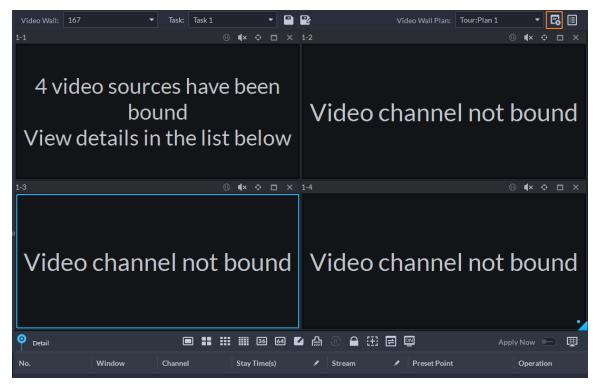
5.1.5.2.3 Video Wall Plan Display

Display a pre-defined plan on video wall.

 \square

Make sure that there are pre-defined plans. For details, see "5.1.5.1.5 Configuring Video Wall Plans". The video wall automatically works as the plans have been configured. To stop the current plan, click on the upper-right corner of the **Video Wall** page, and then it changes to . Click . to start displaying video on wall again.

Figure 5-51 Display video wall plan



5.2 Event Center

When alarms are triggered, you will receive notifications on real-time alarms. You can view their details, such as snapshots and recordings, and process them. If you miss alarms occurred during a certain period, or want to check certain alarms, such as high priority alarms occurred in the past day or all alarms that have not been processed in the past week, you can set the search conditions accordingly and search for these alarms.

Make sure you have configured and enabled alarm events. To configure, see "4.1 Configuring Events".



5.2.1 Real-time Alarms

View and process real-time alarms.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **⊞**, and then select **Event Center**.
- Step 2 Click A.

 \square

The alarm list is refreshed in real time. To stop refreshing, click **Pause Refresh**. To continue receive alarms, click **Start Refresh**.

Figure 5-52 l	Real-time alarms
---------------	------------------

Pause Refresh							= =
Alarm Time	Alarm Category	Alarm Type	Alarm Source	Priority	Processed by	Operation	Ŧ
		Soft Trigger_1		High		۵.	
				High			
				High		8	
				High			
				High		۵.	
				High		3	
	Soft Trigger			High			

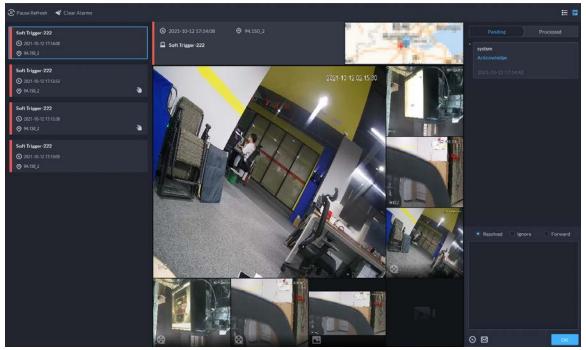
<u>Step 3</u> Click 🐚 to claim an alarm.

After an alarm has been claimed, the username of your account will be displayed under the **Processed by** column.

<u>Step 4</u> Process alarms.

You can use the up and down arrow keys on the keyboard to quickly select other alarms.

1. Click 💿 or double-click the alarm.



2. The middle area displays the time when the alarm was triggered, name and location of the alarm source, alarm type, and the live video images of linked channels, alarm

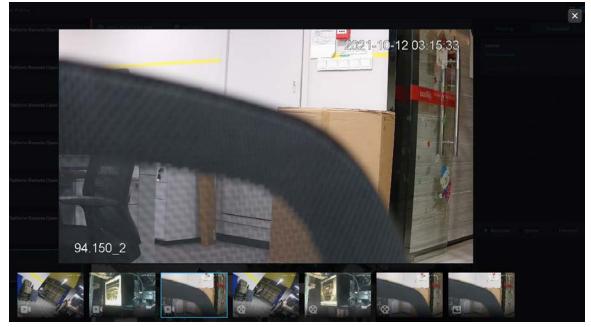
Figure 5-53 Alarm details



videos, and alarm snapshots.

Double-click a window to view them in larger size. Click 🔟 to go back.

Figure 5-54 Alarm linkage media



3. On the right side, select how to process the alarm from **Resolved**, **Ignore**, or **Forward**. Enter comments, and then click **OK**.

Forward allows you to forward the alarm to another user who will process it.

- 4. (Optional) Click S to disarm the alarm. This alarm will not be triggered within the defined period.
- 5. (Optional) Click 🔄 to send the alarm information to other users as a prompt or an email.

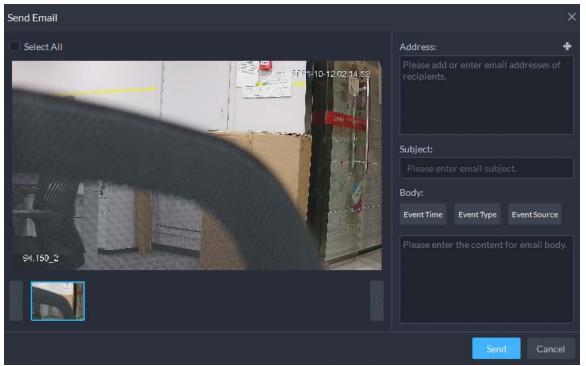


Figure 5-55 Send email



5.2.2 History Alarms

Search for and process history alarms.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **⊞**, and then select **Event Center**.
- Step 2 Click 🛃.
- <u>Step 3</u> Set search conditions, and then click **Search**.

Figure 5-56 History alarms

	👌 Export										
Current Site -	No.	Alarm Time 🚦	Alarm Category	Alarm Type	Alarm Source	Priority	Remarks	Processed by	Alarm Status	Operation	т
Time			Soft Trigger		IPC 4894698464	Low			Pending	3	
04/01 00:00:00-04/30 23:59:59					IPC 4894698464	Low				•	
All *					IPC 4894698464					3	
Triggered Event					IPC 4894698464	Low				3	
						Low				3	
						Cow				3	
					IPC 4894698464-				Pending	۵	
					IPC 4894698464	Low				•	
					IPC 4894698464	Low				3	
					IPC 4894698464	a law				•	
					IPC 4894698464	(Low			Pending	۵	
						Low				3	
					IPC 4894698464	Low				۵	
						Low				*	
					IPC 4894698464	Low			Pending	۵	
			Soft Trigger			Low				*	
					IPC 4894698464	Low				۵	
						Low				۵	
					IPC 4894698464	Low				•	
						Low				۵	
High,Medium,Low 🔻											
Search								1 2 3	4 5	20 • pt	er Page

Step 4

4 Claim and process alarms. For details, see "5.2.1 Real-time Alarms".

 \square

You can use the up and down arrow keys on the keyboard to quickly select other alarms.

5.3 DeepXplore

You can set multiple search conditions to view records of people, vehicle snapshots and access that you are interested in.

5.3.1 Searching for Records

In this section, you can view integrated records of people, vehicle, and access. control.

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **H**, and then select **DeepX plore**.
- <u>Step 2</u> Click , and then select **Record**.



Record Image: Capture Image: Captur

<u>Step 3</u> Set the search object, channel and time, and then click **Search**.

Figure	5-58	Search	result
inguies		Scarcii	1 CD GIT

Q Search	Re		Records 2 ×			
Selected 0	Channels (3) 🔲 🎫			Sewich	Face Capture Details	_
👌 Export					© IPC	© 2021-07-15 15:15:24
100+ [A]	. 531 .	8.2	. 🖻 . 🖻			
Face Capture						
			Channel Name			
101				•		
				•		
1				•		
				•		
	2	2021-07-15 14:14:53	шчс	•	of 😌	

For the search result, you can perform following operations.

- For face capture records, you can hover the mouse over the small image on the right, and then click for images similar to this one. For details, see "5.3.2 Searching for People".
- Click 📋 next to the record to delete it one by one.

Access records cannot be deleted.

• Click **Export** to export records to the local storage.

```
<u>Step 4</u>
```

4 Select a record, and on the right side, you can see the details. Click on the video image to view the linked recording.



5.3.2 Searching for People

Based on the defined search conditions, you can view capture records of faces, bodies and other information.

Procedure

<u>Step 1</u> Log in to the DSS Client. On the **Home** page, click \blacksquare , and then select **DeepX plore**.

Figure 5-59 Person search

<u>Step 2</u> Click \square , and then select **Person**.

	5		
Record	Face Capture	Body Capture	
Person	Search by Feature Sear	ch by Image	
Feison		5157 mage	
	Selected Channel(13)	Today Yesterday This Week	
	Age:	Gender:	
	All	All	•
	Face Mask:	Beard:	
	All	All	-
	Glasses:		
	All		
Vehicle			
		Search	

- Search object
 - **Face Capture**: Search for records in face capture database.
 - **Body Capture**: Search for records in body capture database.
 - **Person Archive**: Search for records in person information database.
- Search type
 - **Search by Feature**: Search for records by the defined features such as age, gender, clothes color, ID and more.
 - Search by Image: Search for records by the uploaded image, and only records above the set Similarity will be displayed.

 \square

Only new versions of IVSS devices support displaying similarity.

- Search channel: Select device channels of the records by clicking **Selected Channel**.
- Search time: Select time period of the records from Today, Yesterday and This Week.



Only available for face and body capture records.

• Search conditions: Set search conditions such as age, gender, top color, ID, name and more to search for specific records.

<u>Step 3</u> Set the search object, type and conditions, and then click **Search**.

Figure 5-60 Search result

Q Sea	irch	Face Capture 1	× Face Capture 2	×			
⊙ s	ected Channels (4)	Today Yesterday	This Week		Search ¥	Face Capture Details	
👌 Exp	oort 📋 Delete				Time 11 🛛 🏭 🗮	Ø IPC	Q 2021-07-15 15:15:24
	Image	Channel	Time	In Database (Yes/No)	Operation		
ø					•		
					٠		
ø					•		
<u>.</u>					•		
Ø					•	Detailed Information	
<u>.</u>					٠	් ම Pyoung	

For the search result, you can perform following operations.

- Click 🔹 next to **Search** to change search conditions.
- Click Time 11 II E to change records arrangement.
- Click 📋 next to the record to delete it one by one, or you can select records, and then click **Delete** to delete them in batches.
- Click **Export** to export records to the local storage.
- <u>Step 4</u> Select a record, and on the right side, you can see the details. Click the video image to view the linked recording.
- <u>Step 5</u> Go back to <u>Step2</u>, and then click **Person Archive**.
- <u>Step 6</u> Enter the ID, name or card number of the person you want to search for.
- <u>Step 7</u> Double-click the record.

You can see the face capture, vehicle capture, access records and other information of the corresponding person.



Figure 5-61 Person information

		5			
	Select All Today Yester	rday This Week			
2	Face Capture	Vehicle Capture	Access Records		
io.	Face Capture				
00005533	Image			Channel Name	Operation
Name test					
Person Group:					
All Persons	Vehicle Capture				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(From No.	Image	Plate No.		Channel Name	Operation
Email Address:					
D Type Others	Access Records				
E No.	lmage		Channel Name		Operation
Carthin:					
HuteNo;					
Exclusion General					

5.3.3 Searching for Vehicles

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click \blacksquare , and then select **DeepX plore**.
- <u>Step 2</u> click , and then select **Vehicle**.

Person	 Selected Channel(0) Today Yesterday This Week Plate No.: Vehicle Brand: Unlimited Full Plate No.
Vehicle	Vehicle Color: Vehicle Category:

Figure 5-62 Vehicle search

- Search object
 - Vehicle Capture: Search for records in vehicle capture database.
 - **Vehicle Archive**: Search for records in vehicle information database.



- Search type
 - Search channel: Select device channels of the records by clicking **Selected Channel**.
 - Search time: Select time period of the records from Today, Yesterday and This Week.



Only available for vehicle capture records.

• Search conditions: Set search conditions such as plate number (full plate number optional), vehicle brands, owner name and more to search for specific records.

<u>Step 3</u> Set the search conditions, and then click **Search**.

For the search result, you can perform following operations.

- Click 💽 next to **Search** to change search conditions.
- Click Time 11 III to change records arrangement.
- Click 📋 next to the record to delete it one by one, or you can select records, and then click **Delete** to delete them in batches.
- Click **Export** to export records to the local storage.
- <u>Step 4</u> Select a record, and on the right side, you can see the details. Click on the video image to view the linked recording.

Click 📓 at the upper-right corner to view all records added to temporary records. Inside it, you can click 🔤 to generate target track, and click 📑 to remove the record form the bank.

5.4 Access Management

On the **Access Management** page, you can do operations on access control, video intercom, and visitor.

5.4.1 Access Control Application

You can unlock and lock doors, view details of bound videos and event, and the access control logs. Make sure that you have finished the access control configuration before application. For details, see "4.5 Access Control". You can also click Access Control Configure. to go to the access control configuration page.

5.4.1.1 Viewing Videos

If you have already bound a video channel to the access control channel, you can view the real-time videos of the channels on the console. To bind video channels, see "3.1.3 Binding Resources". Log in to the DSS Client. On the **Home** page, select \blacksquare > **Access Management** > \blacksquare > **Access Control Console**, and then view the linked real-time videos by the following two methods.



• On the right side of the console page, click 🔤 in the access control channel list.

Door1 () 🖬 🔤 🛄 Main Map **H** 🗔 II 💼 😳 event Informa... 🔽 Alarm Abnormal 🔽 Normal 🔽 All Locati... Perso... ID Ope Room No. Event Event ... Norm

• Click 🔲 on the console page. The video page is displayed. Drag the access control channel on the left side of the screen to the live view page on the right side. The system displays videos in

Figure 5-63 Viewing video (1)



real time.

	Figure 5-64 Viewing	j video (2)	
Resources Search Q ✓ ⋒ Root (1/1) ✓ ☆ [(1/1) ✓ ⓓ 220 ☐ Door1 ➤ ௴ Main Map			
	📍 Event Informa 🔽 All 🛛 💆 Ala	rm 🗾 Abnormal 🗾 Normal	II 🕯 🛈
	Time Locati Perso ID Room	No. Event Event Ope	
	14:42: Door1	Platfo Normal O	
🛱 Global Control			Person Name:
			ID:

 Γ : Γ Γ Γ Λ Λ Γ Λ Λ

5.4.1.2 Unlocking Door

In addition to normally open status or linked unlock in specified periods, the console also supports unlocking by manually controlling the access control channel. After unlock, the door automatically locks up after a specified period (5 s by default, and 10 s in this example) set up in **Door Config**.

 \square

This section introduces the unlocking operations on the client. For unlocking by fingerprint, card, and face recognition, you can operate on devices. If advance functions have been configured, unlock doors according to the requirements of advance functions. There are the following ways to unlock door:

- There are the following ways to unlock door:
- On the left side of the page, right-click an access control channel in the device list, and select **Remote Unlock** in the pop-up menu. After unlocking, a timed log will be displayed under the channel on the right.
- Click 💷 of a door channel on the right to unlock the door.
- When viewing videos bound to the channel, click 🕕 on the window to unlock the door.
- Set multiple doors to be normally open Select door channels in global control, and then you can set the door to be normally open.
 - 1. Click on the lower left of the console page of the **Access Control Console** module.
 - 2. Select an access control channel to be set to Always Open through global control, and click **OK**.
 - 3. Click on the lower-left corner of the page, and then click **OK**.



 \square

If you want to go back to scheduled control or face-recognition access for these channels,

Click O to restore them to the default status.

5.4.1.3 Locking Door

In addition to normally open status or linked lock in specified periods, the console also supports locking by manually controlling the access control channel. You can lock the door in the following ways:

- On the left side of the page, right-click an access control channel in the device list, and select **Remote Lock** in the pop-up menu.
- Click 🔄 of a door channel on the right to unlock the door.
- When viewing videos bound to the channel, click 🔳 on the video page to lock the door.
- Set multiple doors to be normally closed Select multiple door channels in global control, and then you can set them to be normally closed.
 - 1. Click on the lower left of the console page of the Access Control Console.
 - 2. Select multiple door channels, and click **OK**.
 - 3. Click 🔄 at lower-left of the page, and then click **OK**.

\square

If you want to go back to scheduled control or face-recognition access for these channels,

Click (O) to restore them to the default status.

5.4.1.4 Viewing Event Details

View details of the events reported on door locking and unlocking, including event information, live view, snapshot, and recording.

Background Information

 \square

- Live view is only available when a video channel is bound to the access control channel. To bind video channels, see "3.1.3 Binding Resources".
- To see snapshots and videos of access control, you need to configure video linkage action for the access control channels. For details, see "4.1 Configuring Events".
- Details except locking door are displayed on the console, such as unlocking door, entry with the duress card, and no right.

Procedure

<u>Step 1</u> In the event list below the console page, click on next to the event records.



For a face recognition controller, the face snapshots will be displayed in the records; for other controllers, the records display the captured image and person profile.

		-	,						
Resources	Q EI	elt ≣ ak							
 ▲ Boot (7/10) → 古 SP (2/2) → 古 = (1/3) → □ = (1/3) ● weight = (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3) ● (1/3)	No deta ACSEvent Info Live View Snapshor	Pecording		0	1970-01-01 08	0000 Person Na Di Cardan Person Ga			
									2 3 4
	event Informa	All	🛃 Alarm	Abnormal	Normal				
			Person Name		Room No.		Event Type	Operation	
	09:33:46					Platform Remol	Normal	0	
							Normal		
Clobal Control						Platform Remot	Normal		
	09:33:06						Normat		
	09:32:53					Platform Remot	Normal		

Figure 5-65 Event information

Table 5-11 More operations

No.	Description
1	You can choose to view the events of certain event types. For instance, if you select Normal , the list only displays normal events.
2	 Click II to stop displaying reported event information. In this case, the page no longer displays the reported new events. After clicking, the button changes to . Click to start refreshing reported event information. The page does not display events during the stopping period. After clicking, the button changes to .
3	Clear the events from the current event list without removing them from the log.
4	Click to view access control records.
<u>Step 2</u>	Click the corresponding tab to view the live view, snapshots, and video recordings of the
	linked video channel.

5.4.1.5 Viewing Access Control Records

You can view access control records on the platform or directly on a device. For records on a device, see "8.1 Managing Logs".

5.4.1.5.1 Online Records

The access control records stored on the platform.

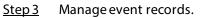
Procedure

<u>Step 1</u> Log in to the DSS Client. On the **Home** page, click \blacksquare > Access Management > \blacksquare > Access Control Record.



			rigure 5-	oo searci	nesuit				
🖪 Export 🛛 🗗 Acquire Re	cords								
Time		Room No.	Card No.	Device	Door	Event	Person Name	Status	Operation
2021-04-08 18:53:21			2886192A			Valid Swipe	xxg1=4243243		0
2021-04-08 17:00:45	25574		2886192A		Door1	Valid Swipe	xxg1-4243243		o
2021-04-08 16:12:59	25574		2886192A		Door1	Valid Swipe	xxg1		0
2021-04-08 16:12:54			CBF01E2A			Valid Swipe	xxg2		ø
2021-04-08 16:11:41	25574		2886192A		Door1	Valid Swipe	xxg1		o
2021-04-08 16:09:42			CBF01E2A		Door1	Valld Swipe	xxg2		0
2021-04-08 16:06:06	25574		2886192A		Door1	Valid Swipe	xxg1		ø
2021-04-08 16:06:04			CBF01E2A		Door1	Valld Swipe			ø
2021-04-08 16:01:50			2B86192A		Door1	Valid Swipe	xxg1		ø
2021-04-08 16:00:23	25574		2B86192A		Door1	Valid Swipe	xxg1		ø
2021-04-08 11:52:19	25574		2B86192A		Door1	Valid Swipe	xxg1		0
								- 1 -	20 🔻 Per Pa

Figure 5-66 Search result



- Click , and you can view live view, snapshot and recording, and person information access control events.
- Click **Export** at the upper-left corner of the page, and then export records as the screen instructs.

5.4.1.5.2 Offline Records

The access control records stored in the device when it was disconnected from the platform. After the device gets reconnected to the platform, you can retrieve the records generated during the disconnection.

Procedure

<u>Step 1</u> Log in to the DSS Client. On the **Home** page, click \blacksquare > Access Management > \blacksquare > Access Control Record.

<u>Step 2</u> Click **Click Acquire Records** on the upper-left corner.



		gule 5-67 Ex		las daning	aisconn				
🛃 Expo	rt 📝 Acquire Reco	ords							
Time	ID	Room No.	Card No.	Device	Door	Event	Person	Status	Opera.
Passwor	rd Verification			×					
	Username: system								
	Login Passwo	ord:							
		l	ОК	Cancel					
							1	20 🔻	Per Page
Step 3	Enter the logi				·			.	4 J
<u>Step 4</u>	Click 🔳 to s	et perioa, se	lect Card -	swiping F	ecords (or Alarm L	og , and ti	nen selec	t device
	• You can s	elect up to o	ne week.						
	• The types	of logs supp	ported incl						
		oack alarms, on invalid pa				r alarms, b	locklist al	arms, too	many
<u>Step 5</u>	Click OK .								

Figure 5-67 Extract records during disconnection

5.4.2 Video Intercom Application

- You can call, answer, release information and view video intercom records.
- Make sure that you have configured the video intercom configuration before application. For details, see "4.6 Video Intercom". You can also click video intercom to go to the video intercom



configuration page.

5.4.2.1 Call Center

The platform, VTOs, VTHs, second-generation door station access controllers, and second-generation fence station access controllers can call each other.

Procedure

<u>Step 1</u> Log in to the DSS Client. On the **Home** page, click \blacksquare > **Access Management** > \blacksquare > **Call Center**.

	Figur	e 5-68 Call center		
Resources	Number of Houses: 3 No	umber of Devices: 11		:
Search Q ▼ I Current Site	103 8004	fww-219 99#8002	7#8#8001	12#12#8011
n chj	SIP Offline	• SIP Offline	• SIP Online	• SIP Online 🕨 🕨
슈 ýx 슈 ybs 슈 meng	fww-79 9#3#8001	VT071 11#11#8003	11#11#103	888889101 888888101
n people count	SIP Offline	SIP Online	SIP Offline	• SIP Online
슈 caopf1 슈 pxb 슈 fww-org 슈 hpf	888888102	11#11#1009 11#11#1009 1 Person(s)	12#12#9901 12#12#9901	999001 9#9#9001
ivss	• SIP Online	🖌 🧧 SIP Offline 🛛 😁 🝾	• SIP Online 🛛 😁 💊	•

\$44 IV35

<u>Step 2</u> You can call different devices.

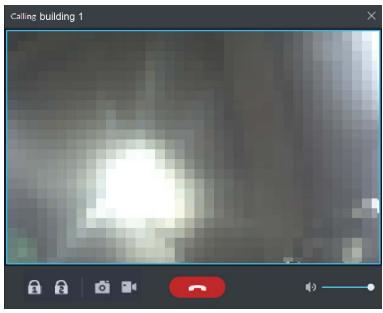
• Call from the platform to VTO

Select VTO in the device list; click **S** corresponding of VTO or dial a number on the dial pad to call the VTO. The system pops out call page. The following operations are supported during call.

- **•** If VTO is connected to lock, click this icon to unlock.
- Click this icon to capture picture, the snapshot is saved into the default directory. To change the path, see "8.3.5 Configure File Storage Settings".
- III: Click this icon to start record, click again to stop record. The video is saved in default path. To change the path, see "8.3.5 Configure File Storage Settings".
- Click this icon to hang up.



Figure 5-69 Call



Call from the platform to VTH
 Select VTH from the device list, click on the VTH or dial corresponding VTH on the right (such as 1#1#101). The system pops up the dialog box of Calling now, please wait.... There are two modes for answering the call.

• If VTH fails to answer in 30 s, hangs up or is busy, then it means the call is busy.

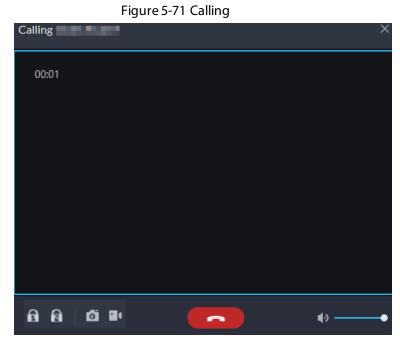
- Answer by VTH, bidirectional talk between client and VTH. Press for any up when you answer the call.
 - Calling room
 Com
 Being called ...

Figure 5-70 Calling

- Call from the platform to an access control device that supports video intercom Select a device from the device list, click S on it or dial its number on the right (such as 1#1#101). The system pops up the dialog box of **Calling now, please wait...**. There are two modes for answering the call.
 - Answer by the device, bidirectional talk between client and the device. Press to hang up when you answer the call.



◇ If the device fails to answer over 30 s, busy or hang up directly, then it means the call is busy.



• Call from VTO to the platform

When a VTO calls, a window pops up.

- **a**: Unlock the door if the VTO is connected to a door.
- ◊ Section Answer the call.

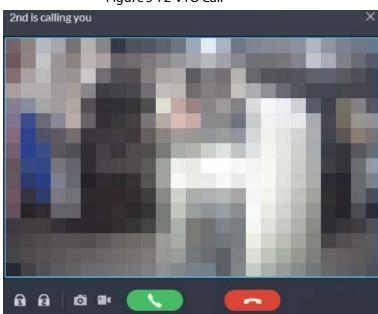
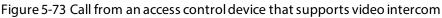
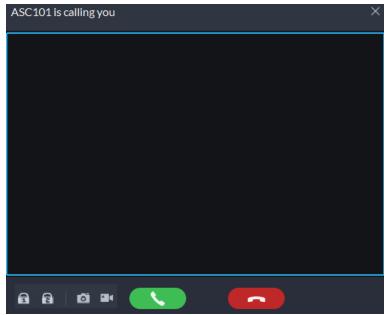


Figure 5-72 VTO Call

- When VTH is calling the platform
 - The client pops out the dialog box of VTH calling. Click **C** to talk with VTH.
 - ◇ Click **C** to answer VTO, realize mutual call after connected.
 - ◊ Click to hang up.
- When an access control device that supports video intercom is calling the platform The client pops out the dialog box. Click **solution** to talk with the device.



Click **C**lick **C**lick **C**lick **C**lick **C**lick **C** Click




• Call through call records

All the call records are displayed in the **Call Record** at the lower-right corner of the page of **Video Intercom**. Click the record to call back.

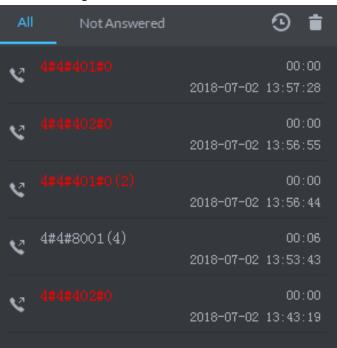


Figure 5-74 Call records

5.4.2.2 Releasing Messages

Send message to VTHs.

Procedure

<u>Step 1</u> Log in to the DSS Client. On the **Home** page, click \mathbb{H} > Access Management > Video



Intercom > Information Release.

- <u>Step 2</u> Click **Add New Message**, select one or more VTHs, and then configure the information you want to send.
- <u>Step 3</u> (Optional) Enable **Schedule Release**, and then configure the time.
- <u>Step 4</u> Send the message.
 - If no scheduled release time is configured, click Instant Release, or click Save, and then click I to send the message immediately.
 - If a scheduled release time is configured, click **Save**, and then the message will be sent on the defined time.

5.4.2.3 Video Intercom Records

View log records and you can trace recorded calls.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click \blacksquare > **Access Management** > \blacksquare > **Video Intercom Record**.
- <u>Step 2</u> Set conditions, and then click **Search**.

Figure 5-75 Video	intercom records
-------------------	------------------

Search	📩 Export					
マ 🔲 品 Video	Device Name	Call Type	Room No.	Start Time	Talk Time	End Status
▶ 📄 🎰 SIP		Outgoing			00:00	
* 2 # 240	vto202	Outgoing			00:00	
 ✓ E vto202 → ∴ 		Outgoing	14#3#1302			
a a faatjee	vto202	Outgoing				
	vto202	Outgoing	14#3#1302	2021-4-9 10:11:59		
			14#3#1302			
		Outgoing				
		Outgoing	14#3#1302	2021-4-9 10:10:41		
		Outgoing				
		Outgoing				
		Outgoing	14#3#1302	2021-4-9 10:09:19		Missed
		Outgoing				
		Outgoing	14#3#1302		00:00	
			14#3#1302			
		Outgoing	14#3#1302			
		Outgoing		2021-4-9 10:05:35		
		Outgoing	14#3#1302			
	vto202	Outgoing	14#3#1302	2021-4-9 10:05:35		Missed
04/05 00:00-04/12 23:59						
Search						4 5 🕨 20 💌 Per Page

<u>Step 3</u> Click **Export** and the records will be saved locally according to system prompt.

5.4.3 Visitor Application

After visitor information is registered, the visitor can have access permission. Access permission is



disabled after the visitor leaves.

5.4.3.1 Preparations

- You have configured the deployment of the video intercom devices, access control devices and entrance and exit device. For details, see the corresponding user's manual.
- You have configured the basic configuration of the platform. For details, see "3 Basic Configurations".
- Make sure that you have configured the visitor configuration before application. For details, see "4.7 Visitor Management". You can also click visitor Configuration to go to the video intercom configuration page.

5.4.3.2 Visitor Appointment

Register visitor information on the platform.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click ⊞ > Access Management > 🖻 > Visitor Management.
- Step 2 Click Visitor Registration.
- <u>Step 3</u> Click the **Visitor Details** tab, enter the information of the visitor and the one to be visited.

Figure 5-76 Visitor details

🦑 Visitor Registration 🔠 Visi	to: Appointmint			Appointment De	tails		×
dation				Visit Details			
Visitor Name							s.
							1
				Visitor Name:		Visitor Company:	
						Visite Company:	
				ID Type:		ID No:	
				ID Card			4
				2021-07-15 17:4	19:23	2021-07-15 19:49:23	۵
Total O Record(s)							Cancel



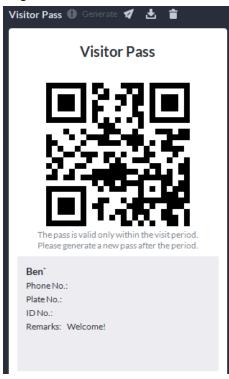
Click 🛃 in the appointment list to enter the **Visitor Details** tab.

<u>Step 4</u> (Optional) Click the **Authentication** tab, select the room number to be visited, and then click **Generate** to generate the QR code of the pass.

You can click 🖪 to download the QR code, and click 🗹 to send it to the visitor by email.









5.4.3.3 Checking In

When a visitor with an appointment arrives, you need to confirm their information and give them access permission. On-site registration is supported when there is a walk-in visitor. Visitors can get access by card swipe or face recognition.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, select **H** > **Access Management** > **№** > Visitor Management.
- <u>Step 2</u> (Optional) Click the **Authentication** tab, and then set authorization information.

1) Select the room number.

2) Issue cards.

You can issue cards by entering card number manually or by using a card reader. A card number is 8-16 numbers. Only second-generation access control devices support 16digit card numbers. When a card number is less than 8 numbers, the system will automatically add zeros prior to the number to make it 8 digits. For example, if the provided number is 8004, it will become 00008004. If there are 9-16 numbers, the system will not add zero to it.

• Issue cards by entering card numbers manually Click **Add** next to **Card**, enter the card number, and then click **OK**.



Figure 5-78 Issue card

Card Add 🗘				
Issue Card				×
Card Number:				
	O	<	Cancel	

• Issue card by using a card reader

Click **O**, select a card reader or device, and then click **OK**. Swipe card through the reader or device, and then a new card will be issued.

Card Add	¢	
Reader M	anager	×
	Card Reader:	
	Device 🗸	
	Device:	
	-	
	ОК	Cancel

Figure 5-79 Reader manager

3) Set face picture. Position your face in the snapshot area, and click **Upload Picture** to select a picture or click **Snapshot** to take a photo.

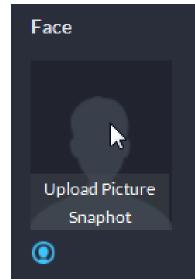


Figure 5-80 Take a face photo

4) Click Generate to generate a QR code for the pass.You can click to download the QR code, and click to send it to the visitor by



email.

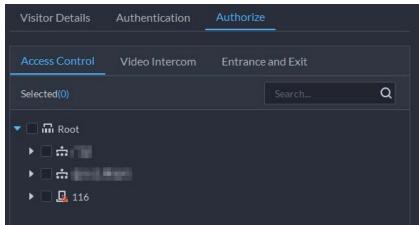
Figure 5-81 Authentication
Visitor Pass 🕕 Generate 🚀 📩 🍵
Visitor Pass
The pass is valid only within the visit period. Please generate a new pass after the period.
Ben` Phone No.: Plate No.: ID No.: Remarks: Welcome!

<u>Step 3</u> Click the **Authorize** tab, and then select access permissions for the visitor.

\square

If you want to set video intercom devices and entrance and exit permissions, you must set host room number and number plate for the visitor.

Figure 5-82 Authorize







Related Operations

- End visit.
 Click to end a visit.
- View card swiping records.
 Click the Card-swiping Record tab, or click in visitor record to view visitor card swiping records.
- Cancel appointment.
 Click
 , and cancel the appointment as the screen instructs.

5.4.3.4 Checking Out

When visitors are leaving, remove their access permissions.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **H** > **Access Management** > **E** > **Visitor Management**.
- Step 2 Find the appointment record of the visitor, and then click 🖪
- <u>Step 3</u> Click **OK** to remove access permission.
 - If you have issued a card to a visitor, make sure the visitor returns the card before leaving.

5.4.3.5 Searching for Visit Records

Search for visit records, and view visitor details and card swiping records.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click \blacksquare > **Access Management** > \bowtie > **Visitor Record**.
- <u>Step 2</u> Set search conditions, and then click **Search**. The results are displayed.
 - \square

In addition to entering the card number, you can also click o, select a card reader and then get the card number by swiping card.

<u>Step 3</u> Click O to view visitor details and card swiping records.

5.5 Parking Lot

You can monitor vehicles that enter and exit in real time, view vehicle information, and search for on-site vehicle, exit vehicle and snapshot records.

5.5.1 Statistics Dashboard

The platform automatically generates data on parking lots, including real-time data on the current day, number of vehicles entering and leaving parking lots, parking turnover rate, and rate of parking



space usage.

Log in to the DSS Client. On the **Home** page, click \blacksquare > **Parking Lot** > **Statistics Dashboard**. The data covers only the parking lots the current user has access to. Administrators can access all parking lots by default.



Figure 5-83 Statistics dashboard

Table 5-12 Parameter description

Parameter	Description
Parking lots	Select the parking lots you want to view data on, and then the numbers of parking lots, ANPR channels, entrances, and exits.
Real-time data of the current day	Displays the real-time data on the parking lots you selected.
Counting period	Configure a period you want to view data on. The graphs will adapt accordingly. The platform only displays the number of vehicles in parking lots for each day.



Parameter	Description
Different types of data presented in graphs	 Displays different types of data within the counting period you configured. Vehicles that Entered and Exited: Vehicles that have entered and exited the parking lots. Vehicle in Parking Lot: Vehicles that were inside the parking lots. Parking Turnover Rate: Parking turnover rate = The number of vehicles that parked during the counting period/the number of parking spaces. The higher the parking turnover rate, the higher the number of vehicles parked in the parking lot. Rate of Parking Space Usage: Rate of Parking Space Usage = The total parking duration of all the vehicles/The number of parking spaces in the parking lot× The counting period. The higher the rate of parking space usage, the better the parking lot is being used.
Auto-Refresh Interval	Select how often the data will be updated.
Export a report	Export the current page as a PDF file to your computer.

5.5.2 Entrance and Exit Monitoring

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **⊞** > **Parking Lot** > **Entrance and Exit Monitoring**.
- Step 2 Select the number of windows you want from 🔲 🚍 🖬 🖽 🖸
- <u>Step 3</u> Click **Please click to select the entrance and exit.**, select an entrance or exit point, and then click **OK**.

The real-time video of that point will be opened in the window.

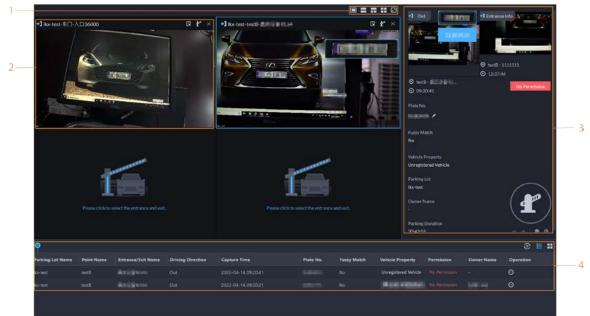


Figure 5-84 Monitor entrances and exits



No.	Description
1	Select the number of windows you want. Each window can display the real-time video of one entrance or exit point.
	 The real-time video of an entrance or exit point. Click Stoppen the real-time video of another entrance or exit point in the
	window.
	• Click 🛃 to open the barrier for vehicles.
	 Open without Recording Plate Info: Open the barrier for vehicles
	without recording their plate numbers. If you select Count Parking
2	Spaces at the same time, the number available parking spaces in the
	parking lot will decrease or increase depending on whether the vehicles
	are entering or leaving. This operation will not generate an enter or leave record.
	 Open and Record Plate Info: This is applicable to when the ANPR cameras cannot recognize the number plates. You can manually enter the number plate, and a snapshot will be taken, and then the platform will generate an entrance or exit record.
	Displays records of barriers not opened.
3	• Click To open the barrier for the vehicle.
	 If the plate number is incorrect, you can click I to manually edit it.
	• Click 🚳 to view the recorded video from the corresponding channel.
	All entrance and exit records.
4	• • Pause or resume refreshing the entrance and exit records.
	• 💿: View the details and recorded video of a record.

Table 5-13 Page description

5.5.3 Searching for Records

Search for entry and exit records, forced exit records, and snapshot records. Log in to the DSS Client. On the **Home** page, click \blacksquare , and then select **Vehicle Entrance and Exit**. Click **Click** to go to the entrance and exit configuration page.

5.5.3.1 Searching for Entrance Records

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click \blacksquare > **Parking Lot** > **Info Search**.
- <u>Step 2</u> Click the **Entrance Records** tab.
- <u>Step 3</u> Configure the search conditions, and then click **Search**.

\square

Click **Show More** and you can search by vehicle owner, company, person group, and more.

<u>Step 4</u> Manage the records.

• Click the image, and then a bigger one will be displayed.



- Double-click a record or click , and the detailed information is displayed on the right. Click the play icon to play the recorded video, and then click to download it. Click
 to modify the information of the vehicle, such as the plate number, brand and color. For the dual camera mode, click each channel to view the information it captured.
- Forced exit. If **No** is displayed under **Already Exited** when the vehicle has exited, click 🛃 to change the status to **Yes**.
- Export records.
 Select the records to be exported, click Export, and then export them according to the on-screen instructions. You can also click Export, and the then export all records according to the on-screen instructions.
- Click 🚺 and then select the items to be displayed.

5.5.3.2 Searching for Exit Records

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click \blacksquare > **Parking Lot** > **Info Search**.
- <u>Step 2</u> Click the **Exit Records** tab.
- <u>Step 3</u> Configure the search conditions, and then click **Search**.

Click **Show More** and you can search by vehicle owner, company, person group, and more.

<u>Step 4</u> Manage the records.

- Click the image, and then a bigger one will be displayed.
- Double-click a record or click , and the detailed information is displayed on the right. Click the play icon to play the recorded video, and then click to download it. Click
 to modify the information of the vehicle, such as the plate number, brand and color. For the dual camera mode, click each channel to view the information it captured.
- Export records. Select the records to be exported, click **Export**, and then export them according to the on-screen instructions. You can also click **Export**, and the then export all records according to the on-screen instructions.
- Click **I** and then select the items to be displayed.

5.5.3.3 Searching for Forced Exit Records

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click \blacksquare > **Parking Lot** > **Info Search**.
- <u>Step 2</u> Click the **Forced Exit Records** tab.
- <u>Step 3</u> Configure the search conditions, and then click **Search**.

\square

Click Show More and you can search by vehicle owner, company, person group, and more.

<u>Step 4</u> Manage the records.

• Click the image, and then a bigger one will be displayed.



- Double-click a record or click , and the detailed information is displayed on the right. Click the play icon to play the recorded video, and then click to download it. Click
 to modify the information of the vehicle, such as the plate number, brand and color. For the dual camera mode, click each channel to view the information it captured.
- Export records. Select the records to be exported, click **Export**, and then export them according to the on-screen instructions. You can also click **Export**, and the then export all records according to the on-screen instructions.
- Click 🚺 and then select the items to be displayed.

5.5.3.4 Searching for Capture Records

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click \blacksquare > **Parking Lot** > **Info Search**.
- <u>Step 2</u> Click the **Capture Records** tab.
- <u>Step 3</u> Configure the search conditions, and then click **Search**.

\square

Click Show More and you can search by vehicle owner, company, person group, and more.

<u>Step 4</u> Mange records.

- Click the image, and then a bigger one will be displayed.
- Double-click a record or click , and the detailed information is displayed on the right. Click the play icon to play the recorded video, and then click to download it. Click
 to modify the information of the vehicle, such as the plate number, brand and color. For the dual camera mode, click each channel to view the information it captured.
- Restore entry If **Yes** is displayed under **Exited** when the vehicle is still in the parking lot, click 🖾 to change the status to **No**.
- Export records.

Select the records to be exported, click **Export**, and then export them according to the on-screen instructions. You can also click **Export**, and the then export all records according to the on-screen instructions.

• Click 🚺 and then select the items to be displayed.



5.6 Intelligent Analysis

View real-time and history people counting data, heat maps, and number of people in an area.

5.6.1 People Counting

View the real-time and historical people count from all the devices in a people counting group.

5.6.1.1 Real-time Count

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **⊞** > **Intelligent Analysis** > **ℝal**time Count.
- <u>Step 2</u> Double-click a group or drag it to a window on the right to display its real-time data.
 - **Occupancy**: The number of people currently inside this group, which will be reset to the defined value at the defined calibration time.
 - **Entered**: The number of people entered this group, which will be reset to zero at the defined calibration time.
 - **Exited**: The number of people who left this group, which will be reset to zero at the defined calibration time.
 - Color of the light:
 - \diamond Red light: Occupancy \geq red light threshold.
 - ♦ Yellow light: Yellow light threshold≤occupancy < red light threshold.
 - Green light: Occupancy < yellow light threshold.

Figure 5-85 Real-time count

Search. Q		
🚔 groupd	group30	
🚔 group9	Occupancy 4	
🚢 group10		
🚔 group11	Available 14	
👛 group12	Entered 1 Exited 0	
🖀 group13		
🛎 group14	Occupancy limit is about to be reached.	
🏜 group15		
🏝 group16		
🛎 group17		
🛎 group18		
🛎 group19		
👛 group20		
🛎 group21		
🚔 group22		
🚔 group23		
🚔 group24		
😩 group25		
🚔 group26		
🛎 group27		
🚢 group28		
🚢 group29		
🎄 group30		

Step 3Hover you mouse on the window displaying real-time data, and then clickStep 4You can enter a number of people to overwrite the current data, and customize the



content to be displayed for green, yellow and red light.

Figure 5-86 Edit the content and data

Edit	×
People Counting Group Name:	Number of People Inside:
group30	5
Prompt:	
Red Light Yellow Light Green Light	
▲ B <i>I</i> ⊻ ≡ ≡ ≡	
Welcome. Please enter.	
	OK Cancel

Step 5 Click OK.

5.6.1.2 Historical Count

Procedure

- <u>Step 2</u> Select the groups you want in **Groups**, or select the channels in **Resources**.
- <u>Step 3</u> Configure the search settings, and then click **Search**.
 - **Groups**: Groups are people counting groups, which allow you to combine and calculate the people flow data from multiple rules across different devices and channels. You can search for historical people flow data from one or more people counting groups.
 - **Resources**: Search for historical people flow data from one or more channels. The data from all the rules of a channel will be included.



If a device is offline, it will upload all the data to the platform when it is online again.



Figure 5-87 Historical people counting data

Related Operations

• 📶 🖌 😑 : Change the display format of the data.

 \square

Only weekly report supports will display the number of retention.

• **Export**: Export the data into a .zip file to your computer.

5.6.2 Heat Maps

View heat maps generated by devices. A heat map shows the distribution of people flow by different colors, such as red for many people have visited an area and blue for only a few people have visited an area. The platform supports generating general heat maps and advanced heat maps. Only fisheye cameras support advanced heat maps.

Prerequisites

Configure the channel feature for either type of heat maps. For details, see "3.1.2.5.2 Modifying Device Information".

- General heat map: Select the **General Heat Map** from the channel features.
- Advanced heat map: Select the **Advanced Heat Map** from the channel features.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click \mathbb{H} > **Intelligent Analysis** > \mathbb{Q} .
- <u>Step 2</u> Select a channel, and then generate a heat map.



\square

You can generate a heat map with data from up to one week.

- Generate a general heat map. Configure the time, and then click **Search**.
- Generate an advanced heat map.
- 1) Select how you want to generate the heat map, **Number of People** or **Time**.
- 2) Configure the threshold.

\square

- When you select **Number of People**, the area with the closest number of people to the threshold will be in red.
- When you select **Time**, the area where people stay for a duration closest to the threshold will be in red.
- 3) Set the time, and then click **Search**.
- <u>Step 3</u> Click **Export** on the upper-right corner to export the heat map to your PC.

5.6.3 In-area People Counting

View statistics on the number of in-area people.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click \blacksquare > **Intelligent Analysis** > **In Area No. Analysis**.
- <u>Step 2</u> Select a channel and configure the search settings, and then click **Search**.

 \square

If a device is offline, it will upload data within the past 24 hours to the platform when it is online again.

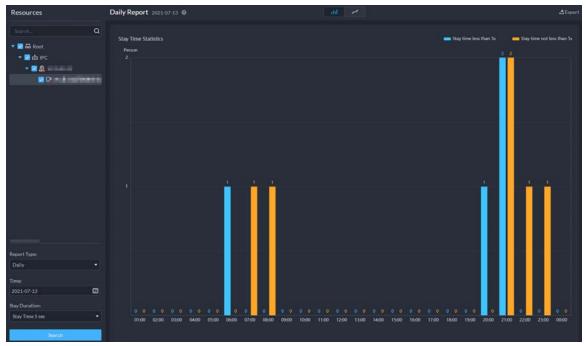


Figure 5-88 In-area people number statistics



Related Operations

- : Change the display format of the data.
- **Export**: Export the data to your PC.



6 General Application

This chapter introduces the general businesses, including target detection, face recognition, and ANPR.

6.1 Target Detection

View and search for the metadata of people, vehicle, and non-motor vehicle.

 \square

Target detection can be done by video metadata cameras + a platform, or IPCs + IVSSs + platform.

6.1.1 Typical Topology

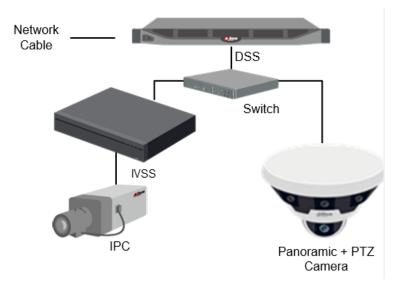


Figure 6-1 Typical topology

- General cameras record videos.
- Video metadata cameras such as panoramic + PTZ camera record videos and analyze people, and motor and non-motor vehicles.
- IVSS manages cameras and analyzes people, and motor and non-motor vehicles.
- The platform centrally manages IVSS and cameras, receives analysis results from cameras and displays the reports.

6.1.2 Preparations

Make sure the following preparations have been completed:

- Cameras and IVSS are correctly deployed, and video metadata is enabled on them. For details, see corresponding user's manuals.
- Basic configurations of the platform have been finished. To configure the parameters, see "3 Basic



Configurations".

- When adding a camera or IVSS, select **Encoder** for device category.
- After adding the camera or IVSS to the platform, select Target Detection from Features of the device.

6.1.3 Live Target Detection

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click ⊞, and then select **Monitoring Center** > **Monitor**.
- <u>Step 2</u> Select a window, double-click the channel or drag the channel to the window.

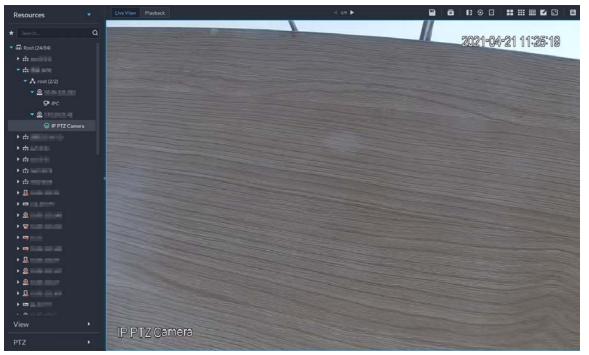


Figure 6-2 Live view

<u>Step 4</u> View live video, and human body, vehicle, and non-motor vehicle information.

- Click an event record to view the event snapshot. You can play back the video of the event. Different events support different operations.
- When playing back video, click 🛃 to download the video to a designated path.
- Click 🔯 to play back the video before and after the snapshot.
- Click 📋 to delete event information.
- Click \overline to view the most recent events.

6.1.4 Searching for Metadata Snapshots

Search for metadata snapshots by setting search criteria or uploading images.

Procedure

<u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **H**, and then select **DeepX plore**.



Step 2 Click Q.

<u>Step 3</u> Set search criteria.

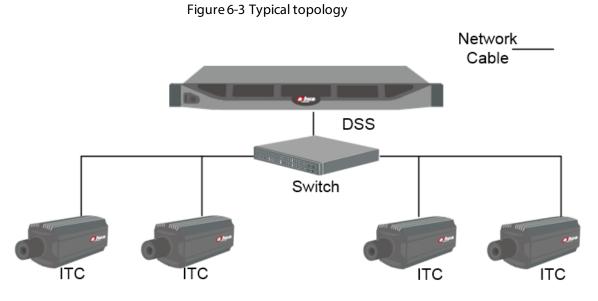
You can search for metadata snapshots in the **Record**, **Person** or **Vehicle** section. For details, see "5.3 DeepXplore".

6.2 ANPR

View automatic number plate recognition in real time or search for records.

- Automatic number plate recognition The platform displays vehicle snapshots and ANPR results in real time.
- Vehicle records Search for vehicle records according to the filtering conditions you have set.

6.2.1 Typical Topology



- ANPR cameras (ITC camera) capture and recognize vehicles.
- DSS centrally manages ANPR cameras, receives and displays vehicle snapshots and information uploaded from the cameras.

6.2.2 Preparations

Make sure that the following preparations have been made:

- ANPR cameras are added to the platform, and the ANPR function is configured. For details, see corresponding user's manuals.
- Basic configurations of the platform have been finished. To configure, see "3 Basic Configurations".
 - When adding an ITC camera, select ANPR for device category, and then select ANPR Device for Device Type.
 - ANPR snapshots are only stored on **ANPR Picture** disks. On the **Storage** page, configure at



least one ANPR Picture disk. Otherwise vehicle pictures cannot be viewed.

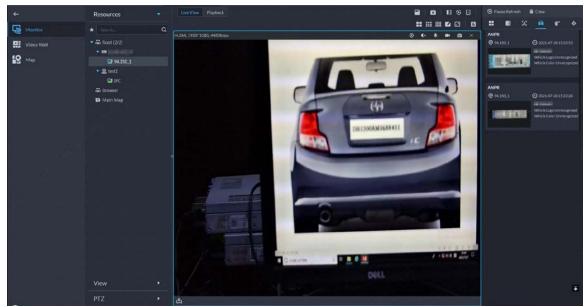
6.2.3 Live ANPR

Background Information

View ANPR live video and plate snapshots.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click \blacksquare , and then select **Monitor Center** > **Monitor**.
- <u>Step 2</u> Select a window, double-click the channel or drag the channel to the window.



<u>Step 4</u> View live ANPR events.

- Click an event record to view event snapshots. You can also play back the video of the event. Different events support different operations.
- When playing back a video, click 📕 to download the video to a designated path.
- Click 🛃 to play back the video before and after the snapshot.
- Click 📋 to delete event information.
- Click \overline{ I to view the most recent events.

6.2.4 Searching for Vehicle Snapshot Records

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click \blacksquare , and then select **DeepX plore**.
- Step 2 Click 🔍.
- <u>Step 3</u> Configure the search conditions.

You can search for vehicle snapshots in the **Record** or **Vehicle** section. For details, see "5.3 DeepXplore".

Figure 6-4 Live view



6.3 Face Recognition

Configure face recognition settings on the device and the platform before you can view face recognition results on the platform.

6.3.1 Typical Topology

The face recognition feature is available on select models of NVR, IVSS and FR cameras.

• Face recognition by NVR/IVSS

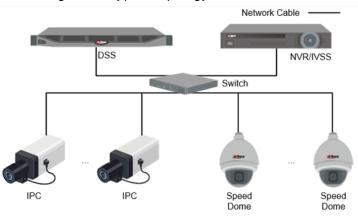
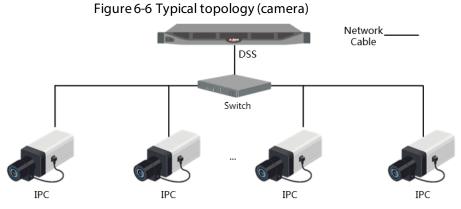


Figure 6-5 Typical topology (NVR/IVSS)

- ◇ Cameras record videos.
- NVR/IVSS is used for face recognition and storage.
- DSS centrally manages cameras, NVRs, and the face database, and provides live view and face search.
- Face recognition by camera



- Cameras record face videos, and detect and recognize faces.
- DSS centrally manages cameras, NVRs, and the face database, and provides live view and face search.

6.3.2 Preparations

Make sure that the following preparations have been made:



- Face recognition devices are correctly configured. For details, see corresponding user's manuals.
- Basic configurations of the platform have been finished. To configure, see "3 Basic Configurations".
 - When adding face recognition devices, select **Encoder** for device category.
 - After adding a face recognition NVR or IVSS, select Face Recognition for Features of the corresponding channels.
 - After adding face recognition cameras or face detection cameras, select Face Recognition or Face Detection for Features.
 - Face snapshots are stored in the Face/Alarm and Other Pictures disk. Configure at least one local disk for picture storage. Otherwise, the platform cannot display snapshots.

6.3.3 Arming Faces

Before arming faces, you need to add the persons to face recognition group. For details, see "4.4.1 Face Watch List".

6.3.4 Live Face Recognition

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click \blacksquare , and then select **Monitor Center** > **Monitor**.
- <u>Step 2</u> Select a window, double-click the channel or drag the channel to the window.

Image: Construction

Figure 6-7 Live view

Step 3 Click 🗐 and then click 🖾 to view live face recognition information.

<u>Step 4</u> View live video, and human body, vehicle, and non-motor vehicle information.

- Click an event record to view event snapshots. You can play back the video of the event. Different events support different operations.
- When playing back video, click 📕 to download the video to designated path.
- Click 🔯 to play back the video before and after the snapshot.



- Click 🙆 to refresh events; click 🞯 to pause refreshing.
- Click 📋 to delete event information.
- Click \overline to view the most recent events.

6.3.5 Searching for Face Snapshots

Search for face snapshots by setting search criteria or uploading images.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click \blacksquare , and then select **DeepX plore**.
- Step 2 Click 🔍.
- <u>Step 3</u> Configure the search conditions.

You can search for vehicle snapshots in the **Record** or **Person** section. For details, see "5.3 DeepXplore".



7 System Configurations

This chapter introduces system parameters configuration, license, service management and backup and, restore.

7.1 License Information

Log in to the DSS Client. On the **Home** page, click **N**, and then in the **System Config** section, select **License**.

Click Of an activation code to view its details, such as time of activation and resources you can connect to the platform.

7.2 License

The system controls channel and function availability through the license. User can buy a license according to the channels and functions as needed.



The platform is unlicensed by default after being deployed.

License Types

• Trial

A trial license is limited in capacity and expires in 90 days.

• Paid

To acquire full control of the features and permanent use, you need to buy a formal license. After activating the first paid license, if you want to increase your license capacity, you can buy more license codes. For example, if you have 500 channels currently, you can buy another 500 channels. After activating the new 500 channels, you will have 1,000 channels in total.

Unlicensed

Lack permissions to use the system. This occurs after deactivating.



For expired trial version and unlicensed version, all modules are displayed as unauthorized, except for the resources, license, tools, and management modules.

Activation Methods

- Normal online activation When the platform server is connected to the Internet, it can connect to the license server, which supports online license activation by verifying the activation code.
- Normal offline activation
 When the platform server is on a local area network, it cannot connect to the license server. You need to obtain the license file from a computer with Internet access, and then import the license



file to the platform to activate it.

7.2.1 Activating License

For details about activating a license, see "2.1.6.2 Activating License".

7.2.2 Deactivating License

After deactivation, the platform will be unauthorized. A deactivated license can be activated again on other servers, allowing users to change servers. The license can be deactivated with online and offline deactivation. If the server is connected to the network, use online deactivation. Otherwise use offline deactivation.

7.2.2.1 Online Deactivation

Background Information

Select this method if your platform sever is connected to a network.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **System Config** section, select **License**.
- <u>Step 2</u> In the **Deactivate License** section, click **Online Deactivate License**.
 - \square

The license is reusable. We recommend copying the license code by clicking 🗈 and then saving it locally.

<u>Step 3</u> Click **Deactivate Now**, and then follow the onscreen instructions to finish deactivation.

Figure 7-1 Online deactivation

5 Deactivate License
Activation Code: 🖻
Deactivate Now Cancel

7.2.2.2 Offline Deactivation

Background Information

Select this method if your platform server has no Internet access.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **System Config** section, select **License**.
- <u>Step 2</u> In the **Deactivate License** section, click **Offline Deactivate License**.



Figure 7-2 Offline deactivation

Dea	activate License
Ste	ep1.
	tivation Code: 🖸
Exp	port offline license request file:
3	Exort
Ste	ep2.
Op	en DSS License Management web page on an Internet-connect PC. Upload the license request file from Step 1.
	ick to go to DSS License Management. 🖪

Step 3

Click **Export** to export and save the license deactivation file locally.

∕∖∖

After the license deactivation file is exported, the platform will become unauthorized, and you cannot use any function.

Move the request file to a computer with Internet access. On that computer, open the Step 4 system email that contains your license, and then click the attached URL go to the license management page.

Step 5 Select DSS > Deactivate License.

<u>Step 6</u> Upload the license request file obtained from Step3, and then follow on-screen instructions to finish the process.

7.3 System Parameters

Configure security parameters, storage retention duration, email server, time sync, remote log, login method, and more.

7.3.1 Configuring Security Parameters

Background Information

- HTTPS (Hyper Text Transfer Protocol over Secure Socket Layer) is a safe HTTP transmission protocol. It is safe and stable, and guarantees the security of user information and devices. When HTTPS certificate is configured, you can log in to the platform through HTTPS protocol to ensure transmission security.
- Protect your data by verifying login password when download or export information, and encrypting the export files.
- After the firewall of the server is enabled, you need to add the IP address of the computer where the DSS Client is installed to the HTTP allowlist so that it can access the server.
- After the firewall of the server is enabled, only the IP addresses in the RSTP allowlist can request video stream through the media gateway service. The IP addresses of decoders will be added automatically. If there are other IP addresses that need to request video stream through media gateway service, you need to manually add them to the RSTP allowlist.



Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **System Config** section, select **System Parameter** > **Security Parameter**.
- <u>Step 2</u> Click 📑 to upload the SSL certificate and private key, and then click **Save**.
- <u>Step 3</u> Enable File Export or Download Password Authentication and Encrypt Exported File, and then click Save.
 - File Export or Download Password Authentication:
 - ♦ You need to enter the password of the current account to export or download files.
 - ◇ For all users that log in to the platform, they do not need to enter the password when exporting or downloading files.
 - **Encrypt Exported File**: When you use the exported file, you need to verify the password.
- <u>Step 4</u> Add IP addresses to the HTTP and RSTP allowlist.

7.3.2 Configuring Retention Period of System Data

Set the retention periods for logs, alarm messages, face recognition records, vehicle passing records, access snapshot records, video communication records, visitor records, and more. Records beyond the defined retention period will be automatically deleted.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **System Config** section, select **System Parameter**.
- Step 2 Click Message Retention Period.
- <u>Step 3</u> Double-click a number to change its value.
- <u>Step 4</u> Click **Save**.

7.3.3 Time Synchronization

Background Information

Synchronize the system time of all connected devices, PC client, and the server. Otherwise the system might malfunction. For example, video search might fail. The platform supports synchronizing the time of multiple devices, which have the same time zone as the platform. You can synchronize the time manually or automatically.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **System Config** section, select **System Parameter**.
- <u>Step 2</u> Click the **Time Sync** tab. Enable the sync methods, and then set parameters.



Figure 7-3 Enable time synchronization

Time Sync		
Device Time Sync:		
Scheduled Time Sync:		
Start Time:	Sync Interval:	
		Hour(s)
Sync Time When Device Comes Online:		
Sync Time Now		
Sync Time Now		
NTP Time Sync: 🗢		
NTP Address:	Port:	
Sync Interval:		
* 60 Min	n(s) (1-1440)	
Save		

- Scheduled Time Sync: Enable the function, enter the start time in time sync for each day, and the interval.
- Sync Time When Device Comes Online: Syncs device time when the device goes online.
- NTP Time Sync: If there is an NTP server in the system, you can enable this function to let the system enable time with the NTP server.
- Step 3 Click Save.
- <u>Step 4</u> (Optional) Enable time synchronization on DSS Client.
 - 1) Log in to the DSS Client, and then in the **Management** section, click **Local Settings**.
 - 2) Click the **General** tab, select the check box next to **Time Sync**, and then click **Save**.



\square

The system immediately synchronizes the time after you restart the client to keep the time of the server and the PC client the same.

Figure 7-4 Enable time sync	
General	
Display	
Default Client Size	
1440*900 ▼	
Display time zone in client and event records It takes effect after the client	
Device Node Info Display	
Device and Channel	
Display live view thumbnails when hovering over channels on the device tree	
Time	
Time Sync 🕜	
Start and Login	

Figure 7-4 Enable time sync

3) Restart the client for the configuration to take effect.

7.3.4 Configuring Email Server

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **System Config** section, select **System Parameter**.
- <u>Step 2</u> Click the **Email Server** tab, enable **Email Server**, and then configure parameters as required.



Figure 7-5 Set email server

Email Server 🗢	
SMTP Server Type:	SMTP Server:
UserDefined 🔹	·
Sender Email Address:	Password:
•	•
Port:	Encryption Method:
• 25	TLS 👻
Test Recipient:	
Email Test	
Save	

Table 7-1 Description of email server parameters

Parameter	Description	
SMTP Server Type	Select according to the type of SMTP server to be connected. The types include Yahoo , Gmail , Hotmail , and UserDefined .	
Sender Email Address	The sender displayed when an email is sent from DSS.	
SMTP Server		
Password	IP address, password, and port number of the SMTP server.	
Port		
Encryption Method	Supports no encryption, TLS encryption, and SSL encryption.	
Test Recipient	Set the recipient, and then click Email Test to test whether the	
Email Test	mailbox is available.	

Step 3 Click Save.

7.3.5 Configure Device Access Parameters

To ensure that you can safely use the devices, we recommend using the security mode if devices support this mode to avoid security risks. The platform also supports enabling and disabling adding devices through P2P.

Procedure

<u>Step 1</u>	Log in to the DSS Client. On the Home page, click 🔊, and then in the System Config
	section, select System Parameter > Device Adding Config.

- <u>Step 2</u> Select a device login mode, and then click **Save**.
- <u>Step 3</u> Enable or disable the P2P function.

If disabled, you cannot add devices to the platform through P2P.



7.3.6 Remote Log

To ensure safe use of the platform, the system sends administrator and operator logs to the log server for backup at 3 A.M. every day.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **System Config** section, select **System Parameter**.
- <u>Step 2</u> Click the **Remote Log** tab.
- Step 3Enable the function, and then set parameters as required.The Platform No. must be the same on the remote server and the platform.

Figure 7-6 Enable remote log

Remote Log

IP Address:

127.0.0.1

Platform No.:

22

Port:

514

Save

Step 4 Click Save.

7.3.7 Configuring Push Notification and Certificate for App

Enable or disable the push notification function, and manage the VoIP certificate for App. The certificate is used to push calls to App when it is offline.

Procedure

<u>Step 1</u>	Log in to the DSS Client. On the Home page, click 🔊, and then in the System Config
	section, select System Parameters > Mobile App Config.
<u>Step 2</u>	Enable or disable push notification.
	If disabled, the app will not receive any notifications, such as alarms and calls.
<u>Step 3</u>	Update the VoIP certificate.
	1) Contact technical support to obtain the certificate.
	2) Click Update Certificate , and upload the certificate according to on-screen
	instructions.

After upload, the platform will display the expiration time of the certificate.



7.4 Backup and Restore

The platform supports backing up configuration information and saving it to a computer or server, so that you can use the backup file for restoring settings.

7.4.1 System Backup

Background Information

Use the data backup function to ensure the security of user information. Data can be manually or automatically backed up.

- Manual backup: Manually back up the data, and the DSS platform will save it locally.
- Automatic backup: The DSS platform automatically backs up the data at a defined time, and saves it to the installation path of the platform server.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **System Config** section, select **Backup and Restore**.
- <u>Step 2</u> Click the **Backup** tab.
- Step 3 Back up data.
 - Manual backup: In the **Manual Backup** section, select the data saving path, click **Backup Now**. The **Login Password** is the same as the system user's. Create an **Encryption Password** to protect data.

	-	•	
Auto Backup			
Max Number of Backup Files:			
	(1-10)		3
6	(1-10)	Backup Confirmation >	
Period:		Username:	
Backup by day 🗸		system	
Backup by day			
		Login Password:	
Time: 🛛 🔞		• ~	
0 🔶 : 00 🔶 : 00 🔶			
		Encryption Password:	
Save		· •	
		Confirm Encryption Password:	
		• *	
Manual Daakun			
Manual Backup			
		To backkup the system file, you need to enter the login password and the encryption password.	
Backup Path:		password and the encryption password.	
• //	Desktop 🕞		
		OK Cancel	
			-
Backup Now			

Figure 7-7 Manual backup

 Auto backup: In the Auto Backup section, configure backup parameters, and then click OK. The Login Password is the same as the system user's. Create an Encryption Password to protect the data. The platform automatically backs up data according to the defined time and period. The backup path is the installation path of the platform



server by default.

 \square

Max Number of Backup Files means you can only save defined number of backup files in the backup path.

Figure 7-8 Auto backup				
Auto Backup				
Max Number of Backup Files:	Backup Confirmation X			
Period: Week: Backup by week Sunday Time: Image: Constraint of the second	Username: system Login Password: * * * Encryption Password: * *			
Manual Backup Backup Path:	Confirm Encryption Password:			
C:/DSS/DSS Client/BackupCfgFiles	To backkup the system file, you need to enter the login password and the encryption password. Cancel			

7.4.2 System Restore

Restore the data of the most recent backup when the database becomes abnormal. It can quickly restore your DSS system and reduce loss.

Background Information

- Local Restore: Import the backup file locally.
- Server Restore: Select the backup file from the server.

 \wedge

- Stop users from using the platform before performing system restore.
- Restoring the system will change system data. Please be advised.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, click **N**, and then in the **System Config** section, select **Backup and Restore**.
- Step 2 Click the **Restore** tab.
- Step 3 Restore data.
 - Restore from local backup file: In the **Restore from Local Backup File** section, select the backup file path, click **Restore Now**, and then enter the passwords (the **Password** is the same as the system user's. The **Encryption Password** is the one created when the file was backed up).



Figure 7-9 Local restore

Restore from Local Backup File	
System Recovery File:	Local Restore ×
Restore Now	Username:
	system
	Login Password:
	·
	Encryption Password:
	·
	You need to enter the corresponding password to restore the system
	OK Cancel

• Restore from backup file on the server: In the **Restore from Backup File on the Server** section, click I enter the passwords (the **Password** is the same as the system user's. The **Encryption Password** is the one created when the file was backed up), and then click **OK**. After restoration, the platform will automatically restart.

Restore from Backup File on the Server				
Backup Time		File Size(kb)	Operation	
2021-04-10 15:00:29		577.74	© Ł	
	Server Restore		×	
	syst Logi •	rname: eem in Password: ryption Password:		
Restore from Local Backup File				
System Recovery File:	• You need to e system.	enter the corresponding password to	restore the	
•		ок	3 Cancel	
Restore Now				

Figure 7-10 Restore from backup files on the server



8 Management

8.1 Managing Logs

View and export operator logs, device logs and system logs, and enable the service log debug mode for troubleshooting.

8.1.1 Operation Log

View and export logs that record users' operations, such as viewing the real-time video of a channel.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, select **Management** > Logs > Operation Logs.
- <u>Step 2</u> Click , select one or more types of log you want to search for, specify the time and keywords, and then click **Search**.
- <u>Step 3</u> To export the logs, click **Export** and follow the on-screen instructions.

8.1.2 Device Log

View and export logs generated by devices.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, select **Management** > Logs > Device Logs.
- <u>Step 2</u> Select a device and time, and then click **Search**.
- <u>Step 3</u> To export the logs, click **Export** and follow the on-screen instructions.

8.1.3 System Log

Procedure

- Step 1 Log in to the DSS Client. On the Home page, select Management > Logs > System Logs.
- <u>Step 2</u> Click **I**, and then select one or more types of logs you want to search for.
- <u>Step 3</u> Configure the time and enter the keyword, and then click **Search**.
- <u>Step 4</u> (Optional) Click **Export** and follow the on-screen instructions.

8.1.4 Service Log

Services will generate logs when they are running. These logs can be used for troubleshooting. If you need even more detailed logs, enable the debug mode so that the platform will generate detailed



logs.

Procedure

- Step 1
 Log in to the DSS Client. On the Home page, select Management > Logs > Extract

 Service Logs.
- <u>Step 2</u> Click I to download the logs of the service within a specified period to your computer.
- <u>Step 3</u> (Optional) Click **set** to enable the debug mode of a service, and then click **set** to download the detailed logs within a specified period to your computer.

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After the debug mode is enabled, the platform will generate a large amount of logs that occupy more disk space. We recommend you disable the debug mode after you have finished troubleshooting.

User's Manual

8.2 Downloading Videos

Background Information

You can download videos stored on the server or the device. They can be saved in are in .avi, .mp4, or .asf formats. Three ways to download videos are:

- Download a portion of a video by selecting a duration on the timeline.
- Download videos by files. The system will generate files every 30 minutes from the time the video starts. If the video does not start on the hour or the half hour, the first file will start from the earliest start time to the half hour or the hour. For example, if a video starts from 4:15, the first file will be from 4:15 to 4:30.
- Download a period before and after a tag.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, select **Management** > **Download Center**.
- <u>Step 2</u> Configure the search conditions, and then click **Search**.
- <u>Step 3</u> Download videos.

\square

You need to verify your password by default before download. You can configure whether to verify the password. For details, see "7.3.1 Configuring Security Parameters".

Download a video by selecting a duration on the timeline.
 Click the **Timeline** tab, and then select a period on the timeline.
 You can also click **Select All** on the upper-left corner, and then you can select and download the same period of all videos at the same time.

- Download a video by file.
 Click the File tab, and then click of a file.
 You can also select multiple files, and then click Download Selected File on the upper-left corner to download them at the same time.
- Download a period of a video before and after a tag.
 Click the Tag tab, click I of the file you want to download.
 You can also select multiple tags, and then click Download Selected Tagged File to



configure and download them at the same time.

<u>Step 4</u> (Optional) Click **C**, select the format of the video, and then click **OK**.

• **Timeline**: You can further adjust the start and end time of the duration.

<u>_~</u>

If you set the **Search Type of Device Video Stream** to **Main Stream and Sub Stream 1**, you can download videos recorded in main stream or sub stream for videos stored on devices. For details, see "8.3.2 Configuring Video Settings".

- **File**: If you download multiple files at the same time, you cannot configure the formats of the videos you want to save.
- **Tag**: You can configure how many seconds or minutes before and after the tag you want to download.

<u>0-vr</u>

After download, you can click 📋 to delete the tag.

<u>Step 5</u> When downloading clipped videos, in the **Download Recorded Video** dialogue box, confirm the time span, and then, if necessary, click **D** to select a video format. Click **OK**.

Related Operations

• You can pause, resume, and delete a download task.

Figure 8-1 Download progress

Timeline	File	Tag						
A Download Selected Tagged File							All	
III Name		Site Name	Tag		Tagging Time		Operation	
IPC		Current Site	Tag Name2		2022-07-14 07:14:10		a :	
III IPC			Tag Name1				<u>گ</u>	
* Downloading Dow								
11 Pause All 👔 Delete All								
File Name		Dov	wnload Progress	Download Speed	File Size	Status	Operation	
Tag Name2_2022-07-14-071310_20	22-07-14-071510_10000	10\$1\$0\$5(2).dav		0% 0.0B/s	58.0MB	Waiting	11 💼	

After download completes, click to go to the path where the video is saved to, or click in the prompt on the upper-right corner to play the video directly in Local Video. For details, see "8.4 Playing Local Videos".

8.3 Configuring Local Settings

After logging in to the client for the first time, you need to configure the following fields under system parameters: Basic settings, video parameters, record playback, snapshot, recording, alarm,



video wall, security settings and shortcut keys.

8.3.1 Configuring General Settings

Configure client language, client size, time, and more.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, select **Management** > **Local Settings**.
- <u>Step 2</u> Click **General**, and then configure the parameters.

General Display Default Client Size 140° 900 Display time zone in client and event records Display time zone in client and event records Display time zone in client and event records Device Node Info Display Device and Channel Display live view thumbnalis when hovering over channels on the device tree Time Time Time Start and Login Auto run at startup Auto Login CPU Alarm Threshold	ligareo 2 General parameters
Default Client Size 1440°900 Display time zone in client and event records Display time zone in client and event records Device Node Info Display Device and Channel Display live view thumbnails when hovering over channels on the device tree Origin Auto run at startup Auto Login	General
Default Client Size 1440°900 Display time zone in client and event records Display time zone in client and event records Device Node Info Display Device and Channel Display live view thumbnails when hovering over channels on the device tree Origin Auto run at startup Auto Login	
1440°900 Display time zone in client and event records I t takes effect after the client is restarted. Device Node Info Display Device and Channel Image: Imag	Display
1440°900 Display time zone in client and event records I t takes effect after the client is restarted. Device Node Info Display Device and Channel Image: Imag	
 Display time zone in client and event records I takes effect after the client is restarted. Device Node Info Display Device and Channel Display live view thumbnails when hovering over channels on the device tree Display live view thumbnails when hovering over channels on the device tree Time Time Sync Start and Login Auto run at startup Auto Login 	Default Client Size
Device Node Info Display Device and Channel Display live view thumbnails when hovering over channels on the device tree Time Time Time Sync Start and Login Auto run at startup Auto Login	1440*900 🔻
Device Node Info Display Device and Channel Display live view thumbnails when hovering over channels on the device tree Time Time Time Sync Start and Login Auto run at startup Auto Login	
Device and Channel Display live view thumbnails when hovering over channels on the device tree Time Time Sync Start and Login Auto run at startup Auto Login	Display time zone in client and event records
Device and Channel Display live view thumbnails when hovering over channels on the device tree Time Time Sync Start and Login Auto run at startup Auto Login	
 Display live view thumbnails when hovering over channels on the device tree Time Time Sync Start and Login Auto run at startup Auto Login 	
Time Time Sync Start and Login Auto run at startup Auto Login	Device and Channel
 Time Sync ② Start and Login Auto run at startup Auto Login 	\square Display live view thumbnails when hovering over channels on the device tree $@$
 Time Sync ② Start and Login Auto run at startup Auto Login 	
Start and Login Auto run at startup Auto Login	Time
Start and Login Auto run at startup Auto Login	
Auto run at startup Auto Login	Time Sync 🔞
Auto run at startup Auto Login	
Auto run at startup Auto Login	
Auto Login	Start and Login
Auto Login	
	Auto run at startup
CPU Alarm Threshold	Auto Login
CPU Alarm Threshold	
CPU Alarm Threshold	
	CPU Alarm Threshold
CPU Alarm Threshold	CPO Alarm Threshold

Figure 8-2 General parameters

Table 8-1	Parameter description
-----------	-----------------------

Parameters	Description
Default Client Size	Select a proper resolution for the client according to PC display screen.



User's Manual

Parameters	Description
Display time zone in client and event records	When selected, the client and the time of alarms will show both the time and time zone.
Device Node Info Display	Select that the device tree displays devices and their channels or only channels.
Display live view thumbnails when hovering over channels on the device tree	When selected, you can hover the mouse over a channel in the device tree in Monitoring Center and a snapshot of its live video image will be displayed.
Time Sync	If enabled, the client starts to synchronize network time with the server to complete time synchronization.
Auto run at startup	 If Remember Password has been selected on the Login page, select Auto restart after reboot, and the system will skip the login page and directly open the homepage after you restart the PC next time. If Remember Password is not selected on the Login page, select Auto restart after reboot, the client login page will appear after you restart the PC.
Auto Login	 Enable the system to skip the login page and directly open the homepage when logging in next time. If Remember Password and Auto Login have been selected on the Login page, the function is already enabled. If Remember Password has been selected while Auto Login is not selected on the Login page, select Auto Login on the Basic page to enable this function. If neither Remember Password nor Auto Login has been selected on the Login page, select Auto Login has been selected on the Login page, select Auto Login has been selected on the Login page, select Auto Login has been selected on the Login page, select Auto Login on the Basic page and you then to enter the password when logging in next time to enable the function.
CPU Alarm Threshold	The user will be asked to confirm whether to open one more video when the CPU usage exceeds the defined threshold.
Audio and video transmission encryption	Encrypt all audio and video to ensure information security.
Auto Lock Client	The client will be locked after the defined period and you cannot perform any operation. Click Click to Unlock Client and verify the password of the current account to unlock the client.
Self-adaptive audio talk parameters	If enabled, the system automatically adapts to the device sampling frequency, sampling bit, and audio format for audio talk.

Step 3 Click Save.



8.3.2 Configuring Video Settings

Configure window split, display mode, stream type and play mode of live view, and instant playback length.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, select **Management** > **Local Settings**.
- <u>Step 2</u> Click **Video**, and then configure the parameters.

5	•
Video	
Live View	
Default Window Split	
I 25 Windows ▼	
Window Display Scale	
Full Screen 🗸	
Stream Switching Rule	
	Use sub stream when number of splits exceeds 9.
Real-time Stream Acquisition Mode	
Streaming Service Forwarding	
Double-click on the video to maximize	e the window and switch to main stream
Balance Priority 🔹	
Decoding Mode	
Software Decoding by CPU 🔹	
 Display the previous live view after re Close videos being played after a long 	a la secondada

Figure 8-3 Video parameters

Table 8-2 Parameter description

Parameters	Description
Default Window Split	Set split mode of the video window.
Window Display Scale	Select from Original Scale and Full Screen.
Stream Switching Rule	When the number of window splits is greater than the defined value, the live video will switch from the main stream type to sub stream type.



Parameters	Description
Real-time Stream Acquisition Mode	Select the one according to your situation. If you select Acquire directly from the device , clients will acquire video streams directly from the channel. If direct acquisition fails, the platform will forward the video streams to clients. When the device and clients are properly connected to the network, direct acquisition can reduce the use of the platform's forwarding bandwidth. If too many clients are acquiring video streams from a channel, acquisition might fail due to insufficient performance of the device. Video streams will be forwarded to
Double-click on the video to maximize the window and switch to main stream	clients by the platform. If selected, you can double-click a video window to maximize it and switch from sub stream to main stream. Double-click again to restore the window size, and then the system will switch it back to sub stream.
Play Mode	 Real-time Priority The system might lower the image quality to avoid video lag. Fluency Priority The system might lower the image quality and allow for lag to ensure video fluency. The higher the image quality, the lower the video fluency will be.
	 Balance Priority The system balances real-time priority and fluency priority according to the actual server and network performance. Custom The system adjusts video buffering and lowers the impact on video quality caused by unstable network. The bigger the value, the more stable the video quality will be.
Decoding Mode	• Software Decoding by CPU: All videos will be decoded by
CPU Threshold	 the CPU. When you are viewing live videos from large amount of channels, it will take up too much resources of the CPU that affects other functions. Software Decoding by GPU: All videos will be decoded by the GPU. The GPU is better at concurrent operation than the CPU. This configuration will free up resources of the CPU significantly. Performance Mode (CPU First): All videos will be decoded by the CPU first. When the resources of the CPU is taken up to the defined threshold, the platform will use the GPU to decode videos.
Display previous live view after restart	If selected, the system displays the last live view automatically after you restart the client.



Parameters	Description	
Close videos being played after long period of inactivity	The system closes live view automatically after inactivity for a pre- defined period of time. Supports up to 30 minutes.	
Inactivity Time		
Instant Playback Time	Click O on the live view page to play the video of the previous period. The period can be user-defined. For example, if you set 30 seconds, the system will play the video of the previous 30 seconds.	
Search Type of Device Video Stream	Select a default stream type when you play back recordings from a device. If Only Sub Stream 2 is selected, but the device does not support sub stream 2, then recordings of sub stream 1 will be played.	
Extract frames when playing back HD videos	If selected, when the playback stream is big due to high definition, certain frames will be skipped to guarantee fluency and lower the pressure on decoding, bandwidth and forwarding.	
Continuous Snapshot	Set the number and interval between each snapshot.	
Interval	For example, if the Continuous Snapshot Interval is 10 seconds	
Number of Continuous Snapshots	and the Number of Continuous Snapshots is 4, when you righ click on the live/playback video and select Snapshot , 4 images will be taken every 10 seconds.	

Step 3 Click Save.

8.3.3 Configuring Video Wall Settings

Configure the default binding mode and stream type of video wall.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, select **Management** > **Local Settings**.
- <u>Step 2</u> Click **Video Wall**, and then configure the parameters.



Figure 8-4 Configure video wall settings

Video Wall
Default Stream Type
Only Main Stream 👻
Stream Switching Rule
9 • Use sub stream when number of splits exceeds 9.
Double-click on the video to maximize the window and switch to main stream
Video Source Play Duration
15 s
Mode of Video Decoding to Wall
Tour

Table 8-3 Parameter description

Parameter	Description
Default Stream Type	Select Main Stream , Sub Stream 1 , Sub Stream 2 or Local Signal as the default stream type for video wall display.
Stream Switching Rule	When the number of window splits is greater than the defined value, the live video will switch from the main stream type to sub stream type.
Double-click on the video to maximize the window and switch to main stream	Double-click the video to maximize the window, and then its stream type will switch to main stream.
Video Source Play Duration	Set the default time interval between the channels for tour display. For example, if 5 seconds is configured and you are touring 3 video channels, the live video image of each channel will be played 5 seconds before switching to the next channel.
Mode of Video Decoding to Wall	 Tour: Multiple video channels switch to decode in one window by default. Tile: Video channels are displayed in the windows by tile by default. Ask Every Time: When dragging a channel to the window, the system will ask you to select tour or tile mode.

Step 3 Click Save.

8.3.4 Configuring Alarm Settings

Configure the alarm sound and alarm display method on the client.

Procedure

<u>Step 1</u>	Log in to the DSS Client. On the Home page, select Management > Local Settings .
<u>Step 2</u>	Click Alarm , and then configure the parameters.



Figure 8-5 Configure alarm settings

Alarm	
Alarm Sound	
Default Custom	
Alarm Type All Event Source Types	
Play Mode Play Once	
Sound Default Sound 🕑	
Mode of Opening Alarm Linkage Videos	
Open alarm linkage video when alarm occurs	
Open Alarm Linkage Video	
As Pop-up Open in Live View	
Map Flashes	
Device on the map flashes when alarm occurs	
Alarm Type	
All	

Table 8-4 Parameter description

Parameters	Description
Default	All types of alarms will use the same default alarm sound when triggered.
Custom	Click Modify Alarm Sound , and then you can change the alarm sound and its play mode of each type of alarm.
Open alarm linkage video	If selected, the platform will automatically open linked video(s) when an alarm occurs.
when alarm occurs	• As Pop Up: The alarm video will be played in a pop-up window.
	• Open in Live View: The alarm video will be played in a window in
	Monitoring Center.
Open Alarm	
Linkage Video	For this function to work properly, you must enable When an alarm is
	triggered, display camera live view on client when configuring an
	event. For details, see "4.1 Configuring Events".
Device on the map flashes when alarm occurs	Set one or more alarm types for alarm notification on the map. When an alarm occurs, the corresponding device will flash on the map.
Step 3 Click Save.	

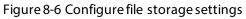


8.3.5 Configure File Storage Settings

Configure the storage path, naming rule, file size, and format of recordings and snapshots.

Procedure

Step 1Log in to the DSS Client. On the Home page, select Management > Local Settings.Step 2Click File Storage, and then configure the parameters.



File Storage		
Video Storage		
Video Naming Rule Time_Channel No. ▼		
Video Storage Path		
C:\Users\Public\DSS Client\Record\		
Video File Size @ 1024 Image Storage	МВ	
Image Format		
JPEG 🗸		
Image Naming Rule Time_Channel No. •		
C:\Users\Public\DSS Client\Picture\	=	

Table 8-5 Parameter description

Parameters	Description
Video Naming Rule	Select a naming rule for manual recordings.
Video Storage Path	Set a storage path of manual recordings during live view or playback. The default path is C:\Users\Public\DSS Client\Record.
Video File Size	Configure the maximum size of a single recording file.
Image Format	Select a format for snapshots.
lmage Naming Rule	Select a naming rule for snapshots.



Parameters	Description
lmage Storage	Set a storage path for snapshots. The default path is C:\Users\Public\DSS
Path	Client\Picture.

Step 3 Click Save.

8.3.6 Viewing Shortcut Keys

View shortcut keys for operating the client quickly.

Procedure

- <u>Step 1</u> Log in to the DSS Client. On the **Home** page, select **Management** > **Local Settings**.
- <u>Step 2</u> Click **Shortcut Key** to view shortcut keys of the PC keyboard and USB joystick.

Shortcut Keys Keyboard Type • PC Keyboard or Jopstick USB Keyboard Function Shortcut Keys Function Shortcut Keys Move Up Up Move Down Down Move Left Left Move Right Right Iris - Delete Focus - Home Focus - End Zoom - PgUp Quen Single Window Enter Open Full Screen Ctrl+F Exit Full Screen Esc Pause/Continue Tour Ctrl+T	5	,
PC KeyboardJoystick USB KeyboardFunctionShortcut KeysMove UpUpMove DownDownMove LeftLeftMove RightRightIris -InsertIris -DeleteFocus -EndZoom -PgUpZoom +PgDnOpen Single WindowEnterClose Single WindowEnterExit Full ScreenEscPause/Continue TourCtrl+T	Shortcut Keys	
Move UpUpMove DownDownMove DownDownMove LeftLeftMove RightRightIris -InsertIris -DeleteFocus -HomeFocus +EndZoom -PgUpZoom +PgDnOpen Single WindowEnterClose Single WindowEnterExit Full ScreenEscPause/Continue TourCtrl+T		bard
Move DownDownMove LeftLeftMove RightRightMove RightRightIris -InsertIris -DeleteFocus -HomeFocus +EndZoom -PgUpZoom +PgDnOpen Single WindowEnterClose Single WindowEnterExit Full ScreenEscPause/Continue TourCtrl+T	Function	Shortcut Keys
Move LeftLeftMove RightRightMove RightRightIris -InsertIris +DeleteFocus -HomeFocus +EndZoom -PgUpZoom +PgDnOpen Single WindowEnterClose Single WindowEnterDopen Full ScreenCtrl+FExit Full ScreenEscPause/Continue TourCtrl+T	Move Up	Up
Move RightRightIris -InsertIris +DeleteFocus -HomeFocus +EndZoom -PgUpZoom +PgDnOpen Single WindowEnterClose Single WindowEnterSopen Full ScreenCtrl+FExit Full ScreenEscPause/Continue TourCtrl+T	Move Down	Down
Iris -InsertIris +DeleteFocus -HomeFocus +EndZoom -PgUpZoom +PgDnOpen Single WindowEnterClose Single WindowEnterOpen Full ScreenCtrl+FExit Full ScreenEscPause/Continue TourCtrl+T	Move Left	Left
Iris +DeleteFocus -HomeFocus +EndZoom -PgUpZoom +PgDnOpen Single WindowEnterClose Single WindowEnterOpen Full ScreenCtrl + FExit Full ScreenEscPause/Continue TourCtrl + T	Move Right	Right
Focus -HomeFocus +EndZoom -PgUpZoom +PgDnOpen Single WindowEnterClose Single WindowCtrl+FOpen Full ScreenEscExit Full ScreenCtrl+T		Insert
Focus +EndZoom -PgUpZoom +PgDnOpen Single WindowEnterClose Single WindowCtrl+FOpen Full ScreenCtrl+FExit Full ScreenEscPause/Continue TourCtrl+T		Delete
Zoom -PgUpZoom +PgDnOpen Single WindowEnterClose Single WindowEnterOpen Full ScreenCtrl+FExit Full ScreenEscPause/Continue TourCtrl+T	Focus -	Home
Zoom + PgDn Open Single Window Enter Close Single Window Enter Open Full Screen Ctrl+F Exit Full Screen Esc Pause/Continue Tour Ctrl+T	Focus +	End
Open Single Window Enter Close Single Window Enter Open Full Screen Ctrl+F Exit Full Screen Esc Pause/Continue Tour Ctrl+T	Zoom -	PgUp
Close Single Window Enter Open Full Screen Ctrl+F Exit Full Screen Esc Pause/Continue Tour Ctrl+T	Zoom +	PgDn
Open Full Screen Ctrl+F Exit Full Screen Esc Pause/Continue Tour Ctrl+T	Open Single Window	Enter
Exit Full Screen Esc Pause/Continue Tour Ctrl+T	Close Single Window	Enter
Pause/Continue Tour Ctrl+T	Open Full Screen	Ctrl+F
	Exit Full Screen	
Lock Client Ctrl+L	Pause/Continue Tour	Ctrl+T
	Lock Client	Ctrl+L

Figure 8-7 View shortcut keys

8.4 Playing Local Videos

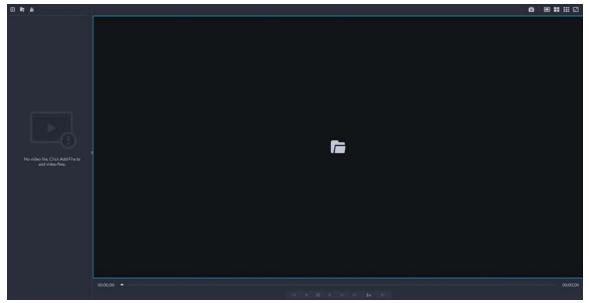
You can play local videos directly on the platform.

Procedure

<u>Step 1</u> Log in to the DSS Client. On the **Home** page, select **Management** > **Local Video**.



Figure 8-8 Local video



<u>Step 2</u> Click I to select one or more files, or to open all files in a folder.

Figure 8-9 Play list



<u>Step 3</u> Drag a file to the window on the right or right click it to play.

Related Operations

Icon/Function	Description
Right-click menu	 Continuous Snapshot: Take snapshots of the current image (three snapshots each time by default). The snapshots are saved to\DSS\DSS Client\Picture by default. To change the snapshot saving path, see "8.3.5 Configure File Storage Settings". Video Adjustment: Adjust the brightness, contrast, saturation, and chroma of the video for video enhancement. Digital Zoom: Click it, and then double-click the video image to zoom in the image. Double-click the image again to exit zooming in.
X	Close all playing videos.
	Split the window into multiple ones and play a video in full screen.
Ø	Take a snapshot of the current image and save it locally. The path is C:\DSS\DSS Client\Picture\ by default.
×	Close the window.
	Stop/pause the video.



Icon/Function	Description
🔇 1x 📡	Fast/slow playback. Max. supports 64X or 1/64X.
	Frame by frame playback/frame by frame backward.
	 Capture the target in the playback window. Click (a) to select the search method, and then the system goes to the page with search results. More operations: (a) the selection area. (a) the selection area. (b) the size of the selection area. (c) Right-click to exit search by snapshot.

8.5 Quick Commands

Customize HTTP commands and execute them quickly. Request methods of GET, POST, PUT and DELETE are supported.

Procedure

<u>Step 1</u> Log in to the DSS Client. On the **Home** page, select **Management** > **Quick Commands**.

Figure 8-10 Quick command	s
---------------------------	---

Quick Command Config	g	×
1	2	3
4	5	6

Step 2ClickImage: ClickStep 3ClickAdd.

Figure 8-11 Add a quick command

Quick Command Config	×
Add Quick Command	
Quick Command Name:	
* 7	
Request Method:	
GET T	
HTTP URL:	
• http://ad	
ОК	Cancel

<u>Step 4</u> Configure the parameters, and then click **OK**.



Figure 8-12 Execute a quick command

📀 Quick Command Config	3	×
1	2	3
4	5	6
7		

Step 5Click the name of a quick command to execute it.If successful, a prompt message will appear at the upper-right corner.



Appendix 1 Service Module Introduction

Service Name		Function Description
Access Service	NGINX	Reverses user requests to distributed system management services.
System Management Service	SMC	Manages services and provides access to various pages.
Device Discovery Service	HRS	Broadcasts platform information to discover devices.
Data Cache Service	REDIS	Stored temporary business data from the platform.
Database	MySQL	Stores platform business data.
Message Queue Service	MQ	Transfers messages between platforms.
Configuration Service	CFGS	Manages disks, such as read-and-write operations.
Alarm Dispatch Service	ADS	Sends alarm information to different objects according to defined plans.
Media Transmission Service	MTS	Gets audio/video bit streams from front-end devices and then transfers the data to DSS, the client and decoders.
Media Gateway	MGW	Sends MTS address to decoders.
Storage Service	SS	Stores, searches for and plays back recordings.
Object Storage Service	OSS	Manages storage of face snapshots and intelligent alarm pictures.
Picture Transfer Service	PTS	Manages picture transmission.
Device Search Service	SOSO	Searches for device information.
Device Management Service	DMS	Registers encoders, receives alarms, transfers alarms, and sends out the sync time command.
Auto Register Service	ARS	Listens, logs in, or gets bit streams to send to MTS.
ProxyList control Proxy Service	PCPS	Logs in to ONVIF device, and then gets the stream and transfers the data to MTS.
Access Control Service	ACDG	Manages access control and other related operations.
Access Controller Access Service	MCDDOOR	Manages access controller access and related operations.





Service Name		Function Description
External LED Device Access Service	MCDLED	Manages LED access and other related operations.
External Alarm Controller Access Service	MCDALARM	Manages alarm controller access and other related operations.
Power Environment Server	PES	Manages access of dynamic environment monitoring devices.
Video Matrix Service	VMS	Logs in to the decoder and sends tasks to the decoder to output on the TV wall.
Video Intercom Switch Center	SC	Manages PC client and App client login as SIP client, and also forwards audio-talk streams.
DA Management Service	DAMS	Manages DA_BSID and DA_POC.
Link Management Service	DA_BSID	 Accesses devices that uses the 4G network. Downloads files from devices to the platform. Redirects to the webpage of devices added through automatic registration.



Appendix 2 Cybersecurity Recommendations

Security Statement

- If you connect the product to the Internet, you need to bear the risks, including but not limited to the possibility of network attacks, hacker attacks, virus infections, etc., please strengthen the protection of the network, platform data and personal information, and take the necessary measures to ensure the cyber security of platform, including but not limited to use complex passwords, regularly change passwords, and timely update platform products to the latest version, etc. Dahua does not assume any responsibility for the product abnormality, information leakage and other problems caused by this, but will provide product-related security maintenance.
- Where applicable laws are not expressly prohibited, for any profit, income, sales loss, data loss caused by the use or inability to use this product or service, or the cost, property damage, personal injury, service interruption, business information loss of purchasing alternative goods or services, or any special, direct, indirect, incidental, economic, covering, punitive, special or ancillary damage, regardless of the theory of liability (contract, tort, negligence, or other), Dahua and its employees, licensors or affiliates are not liable for compensation, even if they have been notified of the possibility of such damage. Some jurisdictions do not allow limitation of liability for personal injury, incidental or consequential damages, etc., so this limitation may not apply to you.
- Dahua's total liability for all your damages (except for the case of personal injury or death due to the company's negligence, subject to applicable laws and regulations) shall not exceed the price you paid for the products.

Security Recommendations

The necessary measures to ensure the basic cyber security of the platform:

1. Use Strong Passwords

Please refer to the following suggestions to set passwords:

- The length should not be less than 8 characters.
- Include at least two types of characters; character types include upper and lower case letters, numbers and symbols.
- Do not contain the account name or the account name in reverse order.
- Do not use continuous characters, such as 123, abc, etc.
- Do not use overlapped characters, such as 111, aaa, etc.

2. Customize the Answer to the Security Question

The security question setting should ensure the difference of answers, choose different questions and customize different answers (all questions are prohibited from being set to the same answer) to reduce the risk of security question being guessed or cracked.

Recommendation measures to enhance platform cyber security:

1. Enable Account Binding IP/MAC



It is recommended to enable the account binding IP/MAC mechanism, and configure the IP/MAC of the terminal where the commonly used client is located as an allowlist to further improve access security.

2. Change Passwords Regularly

We suggest that you change passwords regularly to reduce the risk of being guessed or cracked.

3. Turn On Account Lock Mechanism

The account lock function is enabled by default at the factory, and it is recommended to keep it on to protect the security of your account. After the attacker has failed multiple password attempts, the corresponding account and source IP will be locked.

4. Reasonable Allocation of Accounts and Permissions

According to business and management needs, reasonably add new users, and reasonably allocate a minimum set of permissions for them.

5. Close Non-essential Services and Restrict the Open Form of Essential Services

If not needed, it is recommended to turn off NetBIOS (port 137, 138, 139), SMB (port 445), remote desktop (port 3389) and other services under Windows, and Telnet (port 23) and SSH (port 22) under Linux. At the same time, close the database port to the outside or only open to a specific IP address, such as MySQL (port 3306), to reduce the risks faced by the platform.

6. Patch the Operating System/Third Party Components

It is recommended to regularly detect security vulnerabilities in the operating system and thirdparty components, and apply official patches in time.

- 7. Security Audit
 - Check online users: It is recommended to check online users irregularly to identify whether there are illegal users logging in.
 - View the platform log: By viewing the log, you can get the IP information of the attempt to log in to the platform and the key operation information of the logged-in user.

8. The Establishment of a secure Network Environment

In order to better protect the security of the platform and reduce cyber security risks, it is recommended that:

- Follow the principle of minimization, restrict the ports that the platform maps externally by firewalls or routers, and only map ports that are necessary for services.
- Based on actual network requirements, separate networks: if there is no communication requirement between the two subnets, it is recommended to use VLAN, gatekeeper, etc. to divide the network to achieve the effect of network isolation.

More information

Please visit Dahua official website security emergency response center for security announcements and the latest security recommendations.

ENABLING A SAFER SOCIETY AND SMARTER LIVING