

SmartPSS Lite

User's Manual



V1.0.6






Foreword

General

This manual introduces the functions and operations of the SmartPSS Lite (hereinafter referred to as "the Platform"). Read carefully before using the platform, and keep the manual safe for future reference.

Safety Instructions

The following signal words might appear in the manual.

Signal Words	Meaning
 DANGER	Indicates a high potential hazard which, if not avoided, will result in death or serious injury.
 WARNING	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.
 TIPS	Provides methods to help you solve a problem or save time.
 NOTE	Provides additional information as a supplement to the text.

Revision History

Version	Software Version	Revision Content	Release Time
V1.0.6	V1.3.7	<ul style="list-style-type: none">● Added specification details.● Added entrance of Dolyнк cloud and Dolyнк Pro.● Added email configuration.● Added attendance sending configuration.● Updated solution switching and third-party database configuration.	August 2024
V1.0.5	V1.3.6	<ul style="list-style-type: none">● Updated the name of the function modules.● Added solution switching and third-party database configuration.	May 2024
V1.0.4	—	Updated the event linkage and database settings.	January 2024

Version	Software Version	Revision Content	Release Time
V1.0.3	—	Updated the system settings function.	April 2023
V1.0.2	—	<ul style="list-style-type: none"> ● Updated basic setting function. ● Updated adding device function. ● Updated device configuration function. 	December 2022
V1.0.1	—	<ul style="list-style-type: none"> ● Updated home page. ● Updated data management function. ● Updated backup and restore function. 	August 2022
V1.0.0	—	First release.	April 2022

Privacy Protection Notice

As the device user or data controller, you might collect the personal data of others such as their face, fingerprints, audio 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 to: 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

SmartPSS Lite is a client software developed for small and medium-sized solutions. You can download various solutions as needed. This manual introduces the general functions and operations.

2 Installation and Login

2.1 Installation

Contact technical support or go to the official website to get the SmartPSS Lite. If you get the software package of the SmartPSS Lite, install and run the software according to page instructions.

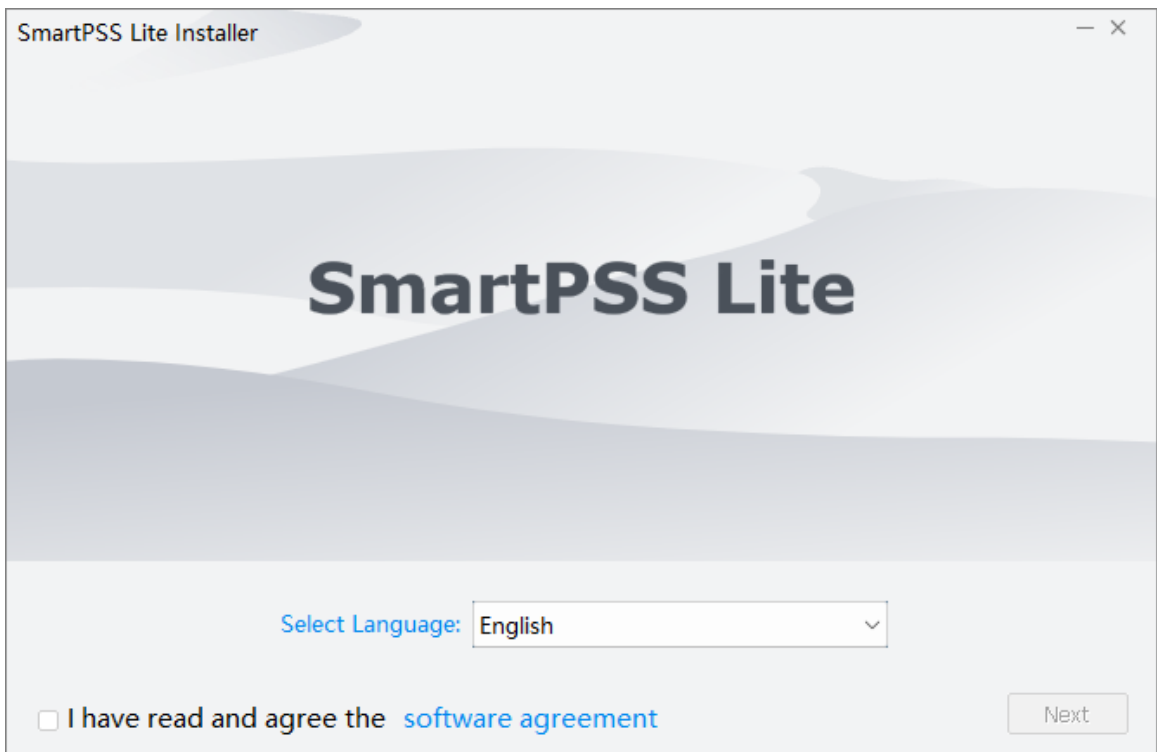
2.2 Initialization

Initialize SmartPSS Lite when you log in for the first time, including setting a password for login and security questions for resetting password.

Procedure

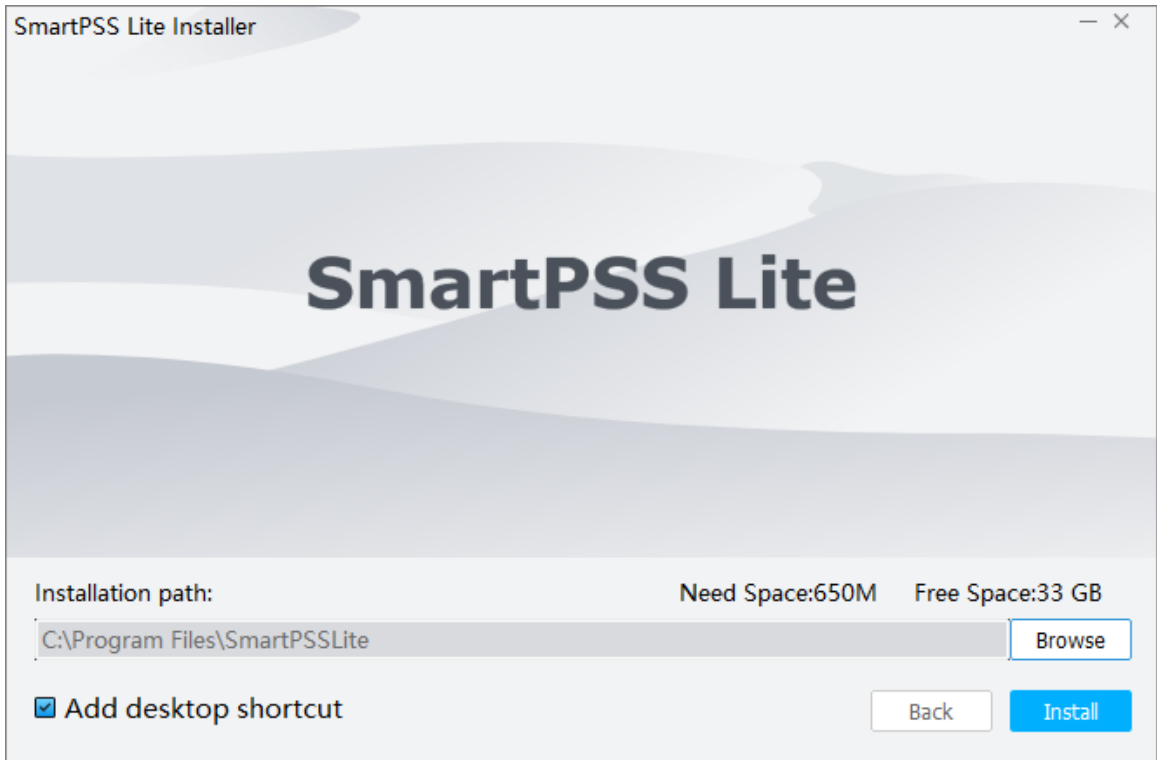
- Step 1 Double-click SmartPSSLite.exe.
- Step 2 Select the language from the drop-down list, select **I have read and agree the software agreement** , and then click **Next**.

Figure 2-1 Select language



- Step 3 Click **Browse** to select installation path, and then click **Install**.

Figure 2-2 Select installation path

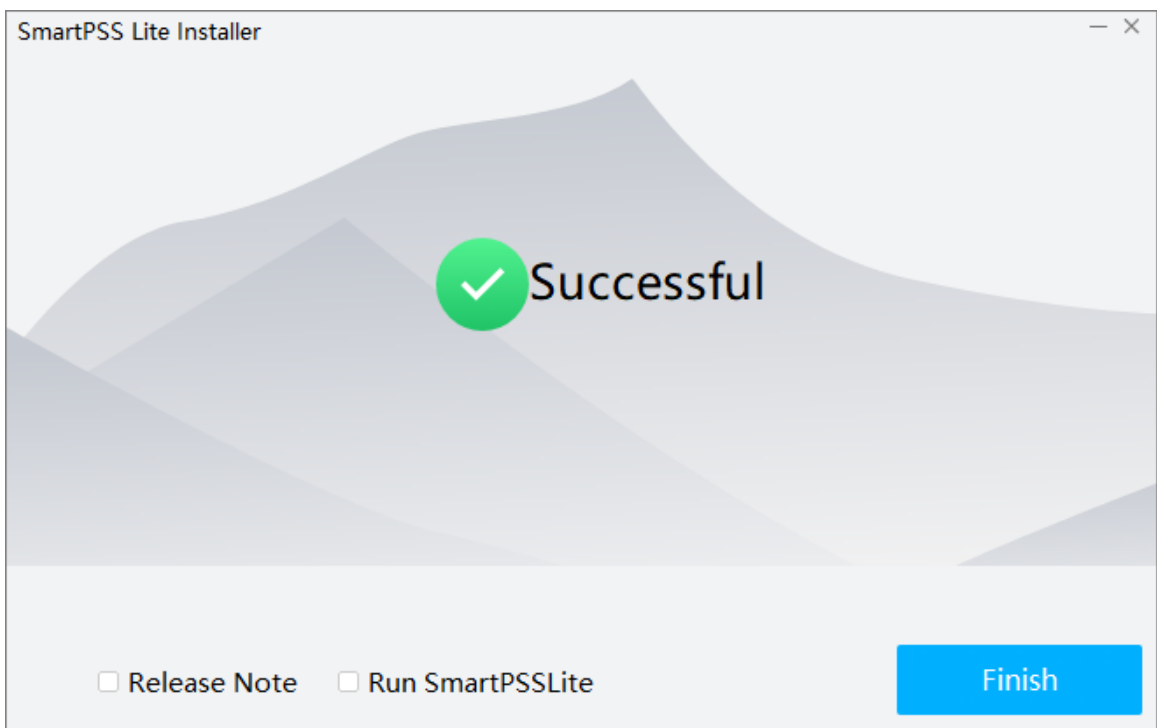


Step 4 Click **Finish** to complete the installation.



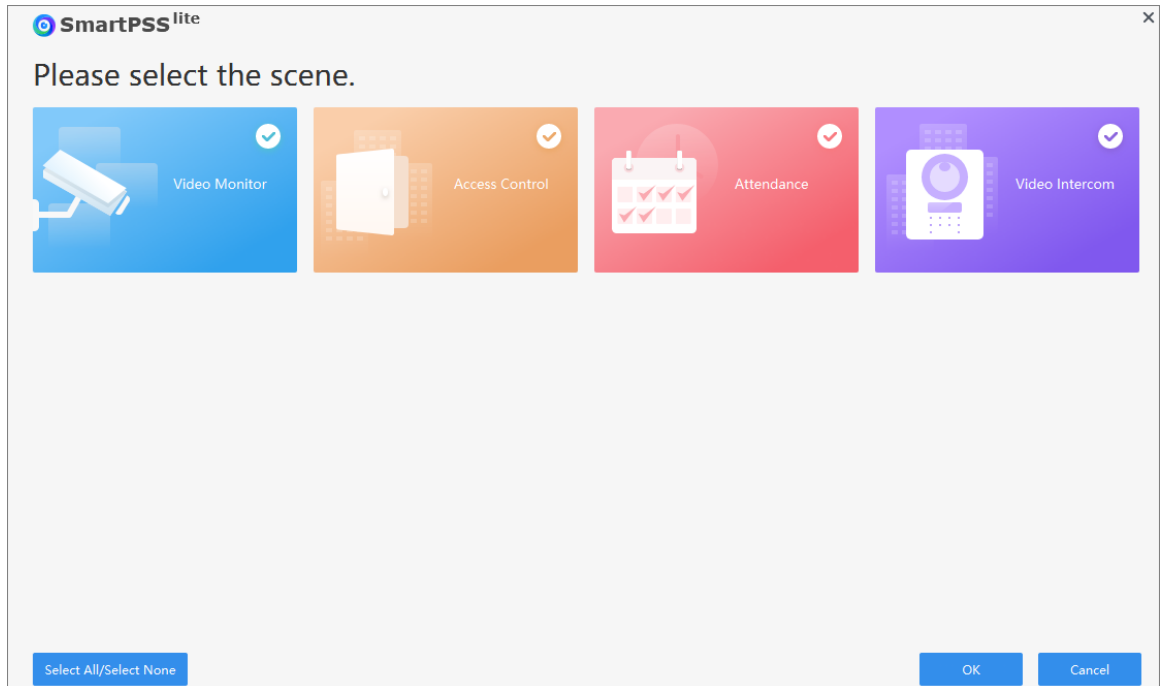
Select **Run SmartPSSLite** to start SmartPSS Lite.

Figure 2-3 Install complete



Step 5 Select the application scenes you want to add, and then click **OK**.

Figure 2-4 Select application scenes



Step 6 Click **I have read and agree to the terms of software license agreement** to agree **SOFTWARE LICENSE AGREEMENT**.

Step 7 Click **I have read and agree to the terms of software privacy policy** to agree **Product Privacy Policy**.

Step 8 Set password on the **Initialize** page, and then click **Next**.

Figure 2-5 Set password

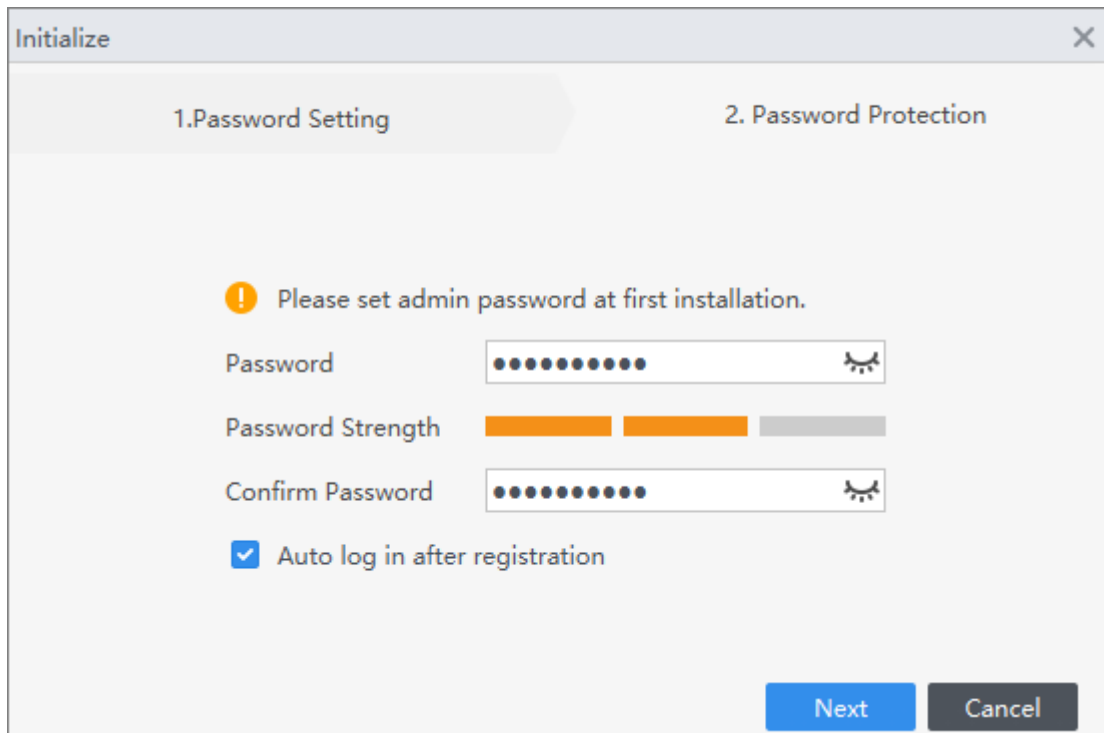


Table 2-1 Parameters of setting password

Parameter	Description
Password	The password must consist of 8 to 32 non-blank characters and contain at least two types of characters among uppercase, lowercase, number, and special character (excluding ' " ; : &).
Password Strength	Displays the effectiveness of a password against guessing or brute-force attacks. Green means the password is strong enough, and red means less strong. Set a password of high security level according to the password strength prompt.
Confirm Password	Enter the password again to confirm the password.
Auto login after registration	Enable Auto login after registration so that the SmartPSS Lite will log in automatically after initialization; otherwise the login page is displayed.

Step 9 Set security questions, and then click **Complete**.

Figure 2-6 Set security questions

The screenshot shows a window titled 'Initialize' with a close button (X) in the top right corner. The window is divided into two steps: '1. Password Setting' and '2. Password Protection'. The '2. Password Protection' step is active. A yellow warning icon with an exclamation mark is followed by the text 'Please set security questions.' Below this, there are three sets of questions and answers. Each set consists of a question label, a dropdown menu for the question, and a text input field for the answer. The questions are: 'Question 1: What is your favorite children's book?', 'Question 2: What was the first name of your first boss?', and 'Question 3: What is the name of your favorite fruit?'. At the bottom right of the window, there is a blue button labeled 'Complete'.

2.3 Login

Procedure

Step 1 Double-click SmartPSSLite.exe.

Step 2 Enter username and password, and then click **Login**.

If multiple networks are available on your computer, you can select one from them.

Figure 2-7 Login

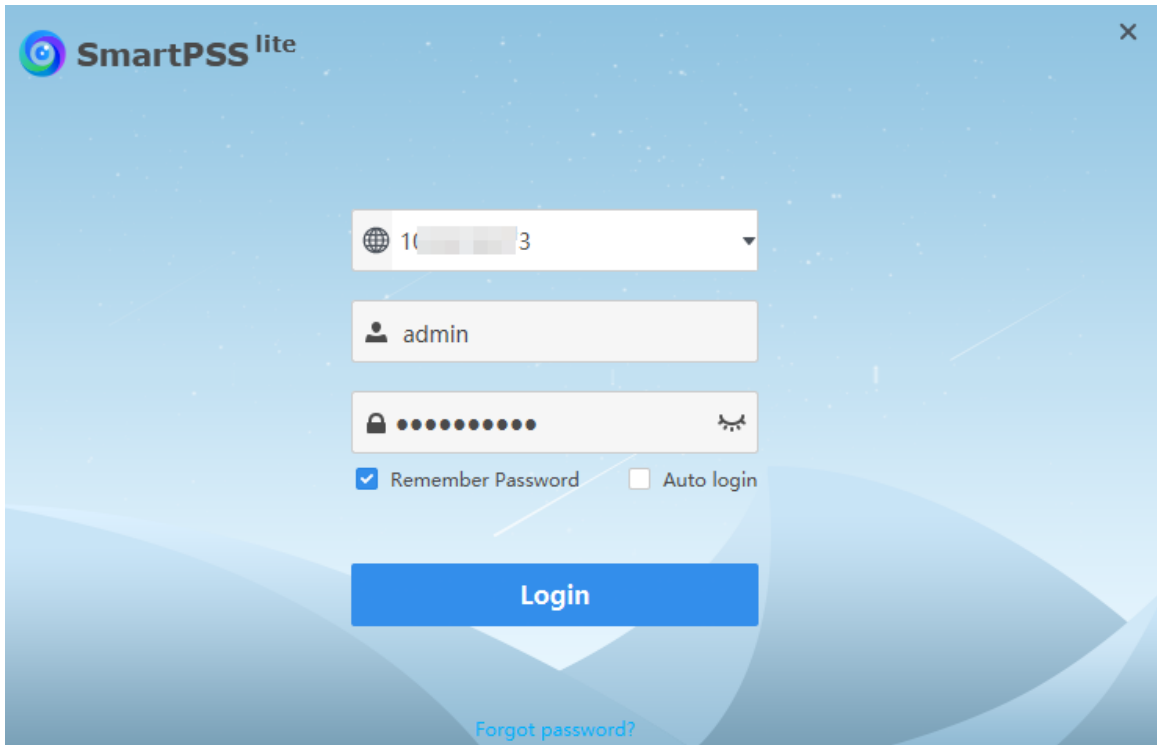


Table 2-2 Parameters of login

Parameter	Description
Remember Password	Enable Remember Password so that you do not need to enter the password again when logging in next time.
Auto login	Enable Auto login so that the SmartPSS Lite will log in automatically the next time when you use the same user account.
Forgot password?	Click Forgot password? to reset password through security questions when you forget the password.

2.4 Password Reset

You can reset the password by answering the security questions.

Procedure

- Step 1 Double-click SmartPSSLite.exe.
- Step 2 Click **Forgot password?** on the login page.
- Step 3 Answer the security questions, and then click **Next**.
- Step 4 Reset password according to page instructions, and then click **OK**.

3 Home Page

Figure 3-1 Home page

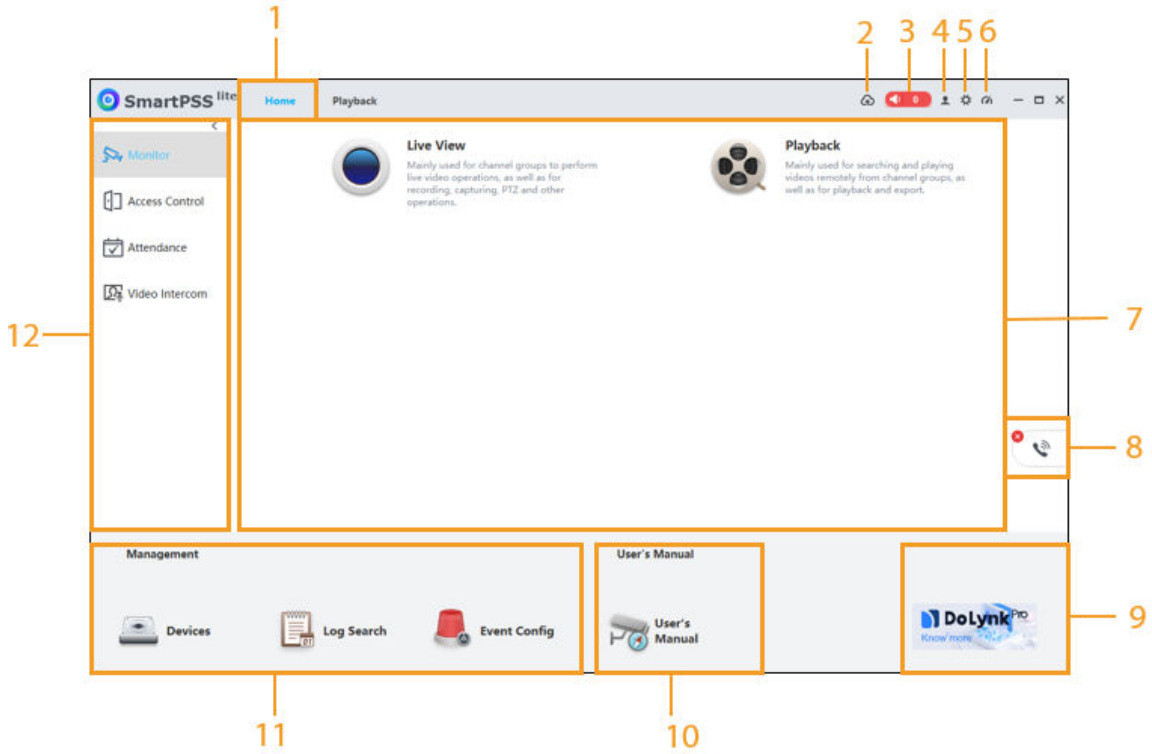














Table 3-1 Parameters of home page

No.	Parameter	Description
1	Function tab	Display the home page by default. When you click on a function for the first time, the function tab is added here.
2	DoLynk pro	The entrance to log in to the DoLynk pro.  <ul style="list-style-type: none"> Logging in to the DoLynk pro can add the number of device channels to 256. Please create an account before you log in to the DoLynk pro.
3	Alarm sound	Click  or  to turn on or turn off the alarm sound. The number on the icon means the number of alarm events that are reported but unprocessed. Click the number to open the Event Center to view the details of alarm events. For details, see "8 Event Center".


No.	Parameter	Description
4	User management	<ul style="list-style-type: none"> ● Select  > User Management to manage users, such as adding role and user, delete role and user and set permissions. ● Select  > Lock Screen to lock screen. Enter password of login account when you want to unlock. ● Select  > Switch User to return to the login page. You can log in with new account. ● Select  > User's Manual to get the user's manual. ● Select  > Feedback to send feedback to us. ● Select  > Upgrade to upgrade the system. ● Select  > About to view the system version, date, Open Source Software Statement, Software License Agreement and Privacy Policy and more. <p>When Open Debug Logs is enabled, debugging logs are saved automatically to a local path for troubleshooting.</p>
5	System configuration	<ul style="list-style-type: none"> ● Switch Solution : Switch among video intercom, attendance, access control and video monitor solutions. ● System : Configure basic setting, monitoring setting and other parameters. ● Third-party Database Config : Configure the database parameters for different solutions to connect to third-party database.
6	System status	View the using status of CPU and memory. If the CPU usage is high, the icon turns red.
7	Function menu	Goes to function menus.
8	Video intercom	<p>The entrance of video intercom.</p>  <p>If you close the entrance by clicking , you can reopen it through Video Intercom > Intercom Management.</p>
9	DoLynk Pro	Click the icon to go to the DoLynk Pro website. You can freely access DoLynk cloud there.
10	User's Manual	See the user's manual and guide of the corresponding solution.
11	Management	<ul style="list-style-type: none"> ● Devices : You can add devices, remotely configure the device, change IP address and more. ● Log Search : You search for or export logs. ● Event Config : Configure alarm linkage actions.
12	Solutions	Goes to the solution configuration page.

4 System Configuration

4.1 Basic Setting

Configure the time, language, theme and other functions of the platform.


Procedure


Step 1 Click , and then select **System > Basic Config**.

Step 2 Configure basic settings.

Figure 4-1 Basic settings

Table 4-1 Description of basic setting parameters

Parameter	Description
Timing	Enable Auto check time , set Check Time , the device will automatically check the time automatically at the scheduled time.
Auto run at startup	Automatically opens the platform at startup.
Language	Display the language of the platform after it restarts.
Language Package	Import language packages.  Restart the platform after the language package is imported.

Parameter	Description
Log Save Time	Set the save time for logs. This function takes effect after the system restarts. For example, set the save time as 30, then the logs of the last 30 days will be saved.
Network Performance	Select the network performance according to your network conditions. For example, when the network is very stable, you can select High .
Skin	Select the skin which is activated after restart.
User Experience Plan	The user experience plan is displayed when you log in to the platform for the first time.
Minimum Behavior	Select Show Event Floating Window , and after the platform is minimized,  will be displayed to show the number of alarm events.
Maximum Behavior	Select Full Screen to hide the taskbar; select Maximum Window to show the taskbar.
Open When Software Starts	Select the page to be displayed when the platform starts.
Close Prompt	A prompt window will be automatically displayed when the platform is closed. Select Don't show again if you do not need the prompt.

Step 3 Click **Apply**.

4.2 Monitor Setting

Configure default system type, instantly replay time, local record time and other functions.

Procedure

Step 1 Click , and then select **System > Monitor Setting**.

Step 2 Configure monitor setting parameters.

Figure 4-2 Monitor setting

Monitor Setting

Default Live Video Stream Self-adaptive Stream ▼

Instant Playback Time 5min ▼

Local Recording Time min

Default Device Tree Organization Tree (By device) ▼ Take Effect after Restart

Decoding Type Soft Decode ▼

Resume Last Preview

Show IVS Rule


Save the device tree selection status

Table 4-2 Description of monitor setting parameters

Parameter	Description
Default Live Video Stream	Select a video streaming type.
Instant Playback Time	Select the instantly playback time. For example, if the value is set to 5 minutes, the last 5 minutes of video will automatically begin to play back.
Local Recording Time	Select the video recording time. For example, if the value is set to 30 minutes, the system records the video for 30 minutes and then automatically saves the video in the default file path on the computer. The default path is \Data\User\Record .
Default Device Tree	<ul style="list-style-type: none"> ● Organization Tree (By device) : Displays devices in the organization tree. ● Area Tree (By Channel) : Displays channels in the organization tree.
Decoding Type	Hard decision decoding and soft decision decoding are two different methods of decoding error-correcting codes. <ul style="list-style-type: none"> ● Soft Decode : Decode through CPU. ● Hardware Decoding : Decode videos through graphics cards.
Resume Last Preview	The last preview automatically opens after the platform starts.
Show IVS Rule	The analytic bounding boxes will be displayed over the video being viewed if this function is enabled.
Save the device tree selection status	Keep devices remain selected in the device tree, even after you perform another device search.

Step 3 Click **Apply**.

4.3 Device Settings

1. Click , and then select **System > Device Settings**.
2. Click **Auto Log in to device (Take Effect after Restart)** to automatically log in to the platform when you start it.

4.4 Event Setting

Configure the alarm sound and link the sender and receiver of the email.

Procedure


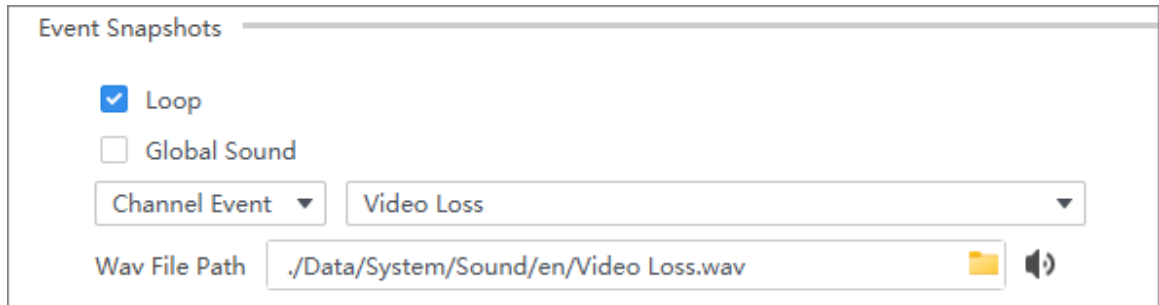
- Step 1 Click , and then select **System > Event Snapshots**.
- Step 2 Configure event setting parameters.

Figure 4-3 Event setting




- Loop: The alarm sound will be played in a loop.
- Global Sound:
 - ◇ Select **Global Sound**, and then select the sound file in the **Wav File Path**. The sound will be played after the corresponding event is triggered.
 - ◇ Do not select **Global Sound**, and then select the event type and sound type in the drop-down list or select the sound file in the **Wav File Path**. The sound will be played after the corresponding event is triggered.

Step 3 Click **Apply**.

4.5 Local Path

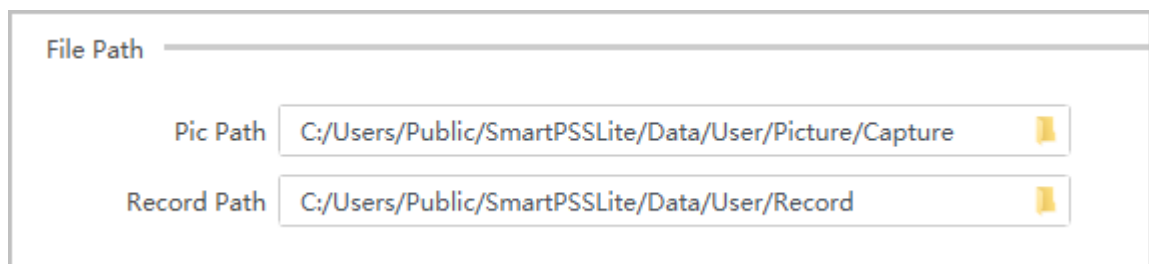
Set the save path for the pictures, videos and other data collected by the platform.

Procedure

Step 1 Click , and then select **System** > **File Path**.

Step 2 Set the local path.

Figure 4-4 Set local path




Step 3 Click **Apply**.

4.6 Data Management

Periodically extract the attendance data from devices, and periodically clear the data, pictures and videos saved on the computer.

Procedure

Step 1 Click , and then select **System** > **Storage**.

Step 2 Configure data management parameters.

Figure 4-5 Storage management

Storage

Extract attendance record regularly. Scheduled Extraction of Access Control Records

Image

Regular Extraction Time +

Automatically extract attendance records ?



Overwrite Ratio ?

Clear Data ?

Database Save Time Day

Image and Video Storage Period Day

Table 4-3 Description of storage management parameters

Parameter	Description
Extract attendance record regularly	The platform automatically extracts attendance and access control records and pictures according to the scheduled time.
Scheduled Extraction of Access Control Records	 <ul style="list-style-type: none"> ● For attendance devices, extract the attendance data directly. For access controllers, set the device as attendance point in advance and then extract the attendance data. For details, see <i>SmartPSS Lite Attendance Solution User's Manual</i>. ● If you set Regularly Extraction Time as Everyday, and you can add up to 5 schedules. ● If you set Regularly Extracting Time as Every Week, you can set a time on a day.
Automatically extract attendance records	After the device is offline, the attendance records will be automatically extracted.
Overwrite Ratio	When the disk is full, the system will automatically overwrite the oldest images and videos according to the ratio.
Clear Data	Configure the save time of database, pictures and videos according to actual requirements. The platform automatically clears data and pictures that exceed the saving time. It triggers at 00:00 each day or when the software is started.  The data does not include temperature monitoring data.

Step 3 Click **Apply**.

4.7 Attendance Setting

Procedure

Step 1 Click , and then select **System > Attendance Setting**.

Step 2 Configure the attendance settings.

Figure 4-6 Attendance settings

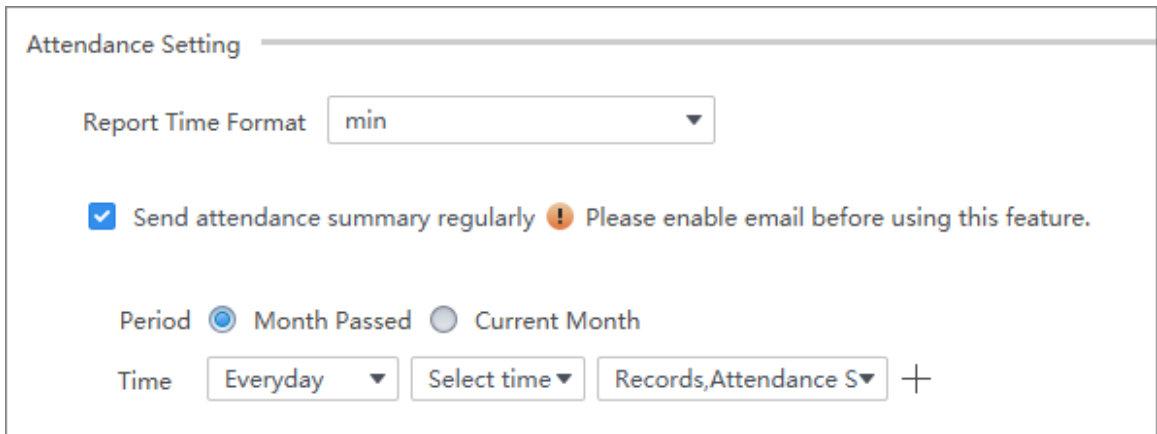




Table 4-4 Attendance setting parameters

Parameter	Description
Report Time Format	Define the time format of attendance reports. For example, if it is set as min , the time of attendance in a report will be displayed in the format of minutes.
Send attendance summary regularly	 <p>This feature is available after the email is enabled.</p> <ul style="list-style-type: none"> ● Period: Send the attendance summary at the defined frequency. <ul style="list-style-type: none"> ◇ Month Passed: Send attendance summary monthly. ◇ Current Month: Send attendance summary this month. ● Time: Send attendance summary at the define time. Up to 2 periods can be set to send the summary. <ul style="list-style-type: none"> ◇ Everyday: Sends attendance summary in the format of daily summary table. ◇ Every Week: Sends attendance summary in the format of weekly summary table. ◇ Every Month: Sends attendance summary in the format of monthly summary table. ● The types of attendance to be summarized can be selected from the drop-list.

Step 3 Click **Apply**.

4.8 Video Intercom Setting


Procedure

Step 1 Click , and then select **System > Video Intercom**.

Step 2 Configure the attendance settings.

Figure 4-7 Video intercom

Table 4-5 Video intercom parameters

Parameter	Description
SIP Server Port	When the platform functions as the SIP server, enter the port of the SIP server.
Compound Organization	<p>Set the organization level.</p> <ul style="list-style-type: none"> ● Building: The organization only includes buildings. ● Unit: The organization includes buildings and units. <p></p> <ul style="list-style-type: none"> ◇ The configuration will take effect after the platform is restarted. ◇ If you want to change the level of the organization, but the organization was already created before, go to Video Intercom > Intercom Config > Dial Management and clear the existing data from there, and then go to Building Management to clear the remaining data.

Step 3 Click **Apply**.

4.9 Backing up and Restoring

Backup and restore platform configuration.

Procedure

Step 1 Click , and then select **System > Backup and Restore**.

Step 2 Configure the backup parameters.

Figure 4-8 Backup and restore

Table 4-6 Parameters description


Parameters	Description
Backup Path	<ul style="list-style-type: none"> ● Select a backup file path and click Apply to save the change. All data will be stored at the defined file path. ● Click Manual Backup to manually back up all data to the set file path. ● Select Auto Backup, and then set the auto backup time. The platform will automatically back up all data to the set file path.
Backup Path of Platform Config	<ul style="list-style-type: none"> ● Select a backup file path and click Apply to save the change. The configuration files will be stored at the defined file path. ● Click Manual Backup to manually back up configuration files to the set file path. ● Select Auto Backup, and then set the auto backup time. The platform will automatically back up configuration files to the set file path.
Reset	Upload the configuration files to the platform, and the configurations will be applied to the platform after it restarts.

Step 3 Click **Apply**.

4.10 Email Configuration

You can configure the email feature to send attendance summary and alarm events.

Procedure

Step 1 Click , and then select **System > Email Config**.

Step 2 Select **SMTP** to enable email.

Step 3 Configure the SMTP parameters.

Figure 4-9 Configure SMTP

The screenshot shows the 'Email Config' window. At the top, there is a tab labeled 'Email Config'. Below it, the 'SMTP' checkbox is checked. The configuration fields are as follows:

- SMTP Server:** An empty text input field with a help icon (?) to its right.
- Port:** A text input field containing the value '25'.
- User Name:** An empty text input field.
- Password:** A text input field with masked characters (dots) and a visibility toggle icon (an eye with a slash).
- Sender:** An empty text input field.
- Receiver:** An empty text input field with a plus sign (+) to its right.
- Encrypt Type:** A dropdown menu currently set to 'SSL'.
- Interval Time:** A text input field containing the value '10' with '(s)' to its right.

 At the bottom left of the form is a blue button labeled 'Email Test'.

Table 4-7 Description of SMTP parameters

Parameter	Description
SMTP Server	The service address of email. Please search for it in your email settings.
Port	The service port of email.
User Name	The user name and password of your account.
Password	
Sender	The email addresses of sender and receivers. Up to 10 receivers are supported.
Receiver	
Encrypt Type	The encrypt types, including TLS and SSL.
Interval Time	The minimum sending interval.
Email Test	Click Email Test to test whether the email functions or not.

Step 4 Click **Apply**.

4.11 Specification Details

View the number of existing device routes on the local device.

Procedure

Step 1 Click , and then select **System** > **Specification details**.

Step 2 View the number of existing device routes and that of the new device routes increased by Dolyнк Pro.

Figure 4-10 Specification details

Authorization item	Local route number (permanently valid)	Cloud Road Count	Cloud authorization validity period	Total nu
Video Channel	64	0		
Door Channel	64	0		
VDP Device	512	0		

4.12 Configuring Third-party Database

Configure the database parameters for different solutions to connect to third-party database.

Procedure

Step 1 Select  > **Third-party Database Config**.


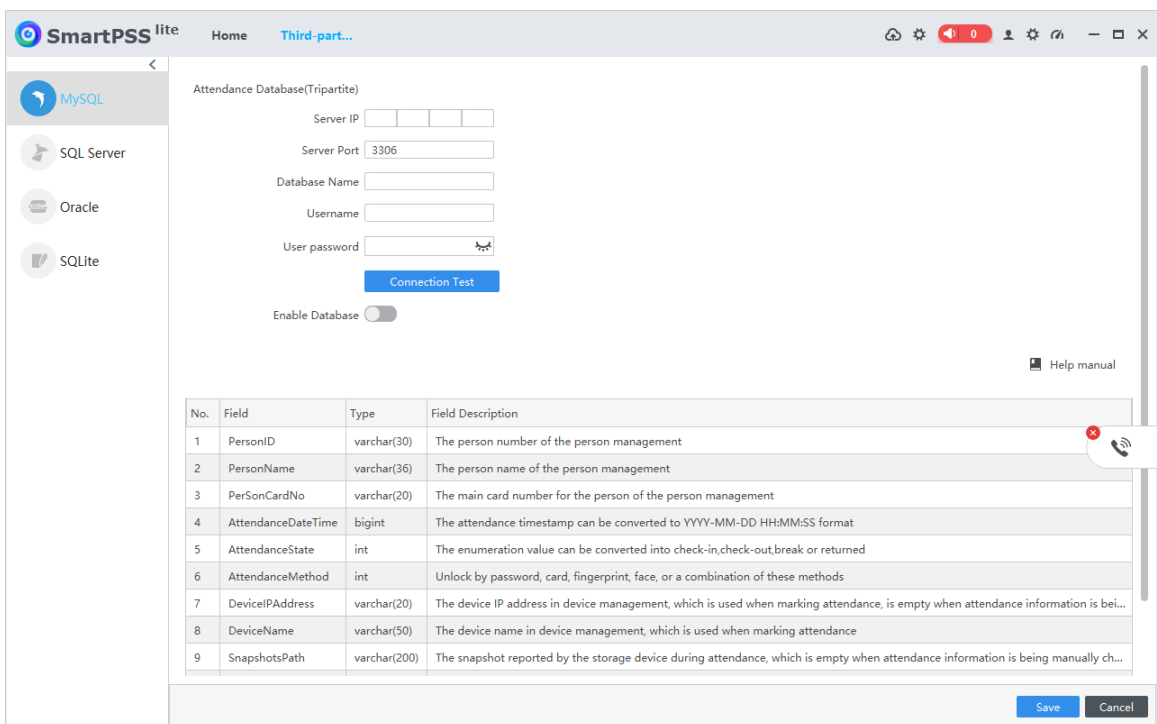
Step 2 Configure the database parameters, and click  next to **Enable Database** to enable the database.

Figure 4-11 Configure database



No.	Field	Type	Field Description
1	PersonID	varchar(30)	The person number of the person management
2	PersonName	varchar(36)	The person name of the person management
3	PerSonCardNo	varchar(20)	The main card number for the person of the person management
4	AttendanceDateTime	bigint	The attendance timestamp can be converted to YYYY-MM-DD HH:MM:SS format
5	AttendanceState	int	The enumeration value can be converted into check-in,check-out,break or returned
6	AttendanceMethod	int	Unlock by password, card, fingerprint, face, or a combination of these methods
7	DeviceIPAddress	varchar(20)	The device IP address in device management, which is used when marking attendance, is empty when attendance information is bei...
8	DeviceName	varchar(50)	The device name in device management, which is used when marking attendance
9	SnapshotsPath	varchar(200)	The snapshot reported by the storage device during attendance, which is empty when attendance information is being manually ch...

Table 4-8 Parameters description

Parameter	Description
Database Type	4 types are supported here, and you can go to the tabs on the left, including MySQL , SQL Server , Oracle and SQLite .

Parameter	Description
Server IP	The IP address and port of the server.
Server Port	
Database Name	The name of the database.
Username	The username and password of the database.
User password	
Connection Test	Test the whether the connection is successful.
Help manual	Click Help manual to view the help manual.

Step 3 Click **Save**.

4.13 Solution Switching

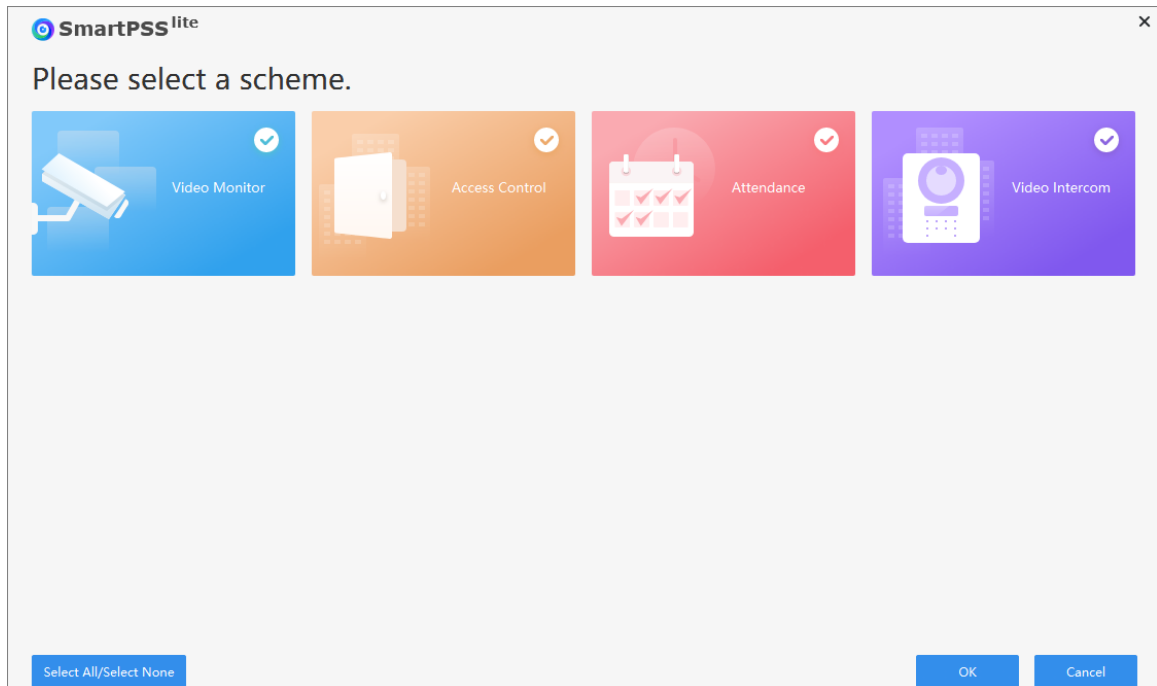
Procedure

Step 1 Select  > **Switch Solutions**.

Step 2 Select the solutions to be switched.

You can select multiple solutions at a time.

Figure 4-12 Switch solutions



Step 3 Click **OK**.

Step 4 (Optional) Upgrade solutions: Select  > **Upgrade** to upgrade the system, and the solutions will be upgraded at the same time.

5 Device Management

The SmartPSS Lite is allowed to add devices. You can remotely configure and operate the devices after adding on the SmartPSS Lite.

5.1 Adding Devices

There are 3 available methods of adding devices.

- Automatically search
- Manually adding
- Import in batches

5.1.1 Adding Device by Searching

You can add multiple devices by searching for them on the current network segment or other network segments.



We recommend you to add devices through searching if the devices are on the same network segment, or when you want to add devices with a known network segment but do not know the exact IP address of the devices.

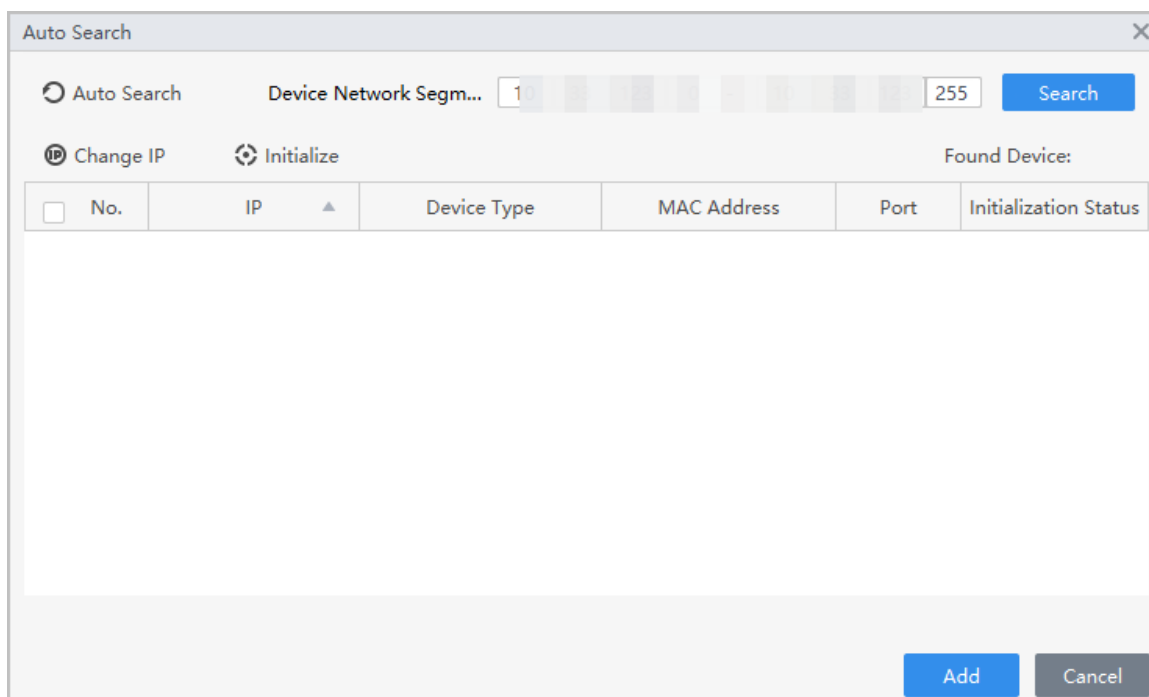
Procedure

Step 1 On the home page, click **Devices**.

Step 2 Select a search method.

- Click **Auto Search** to automatically search for devices that are on the same network segment to your computer.
- Enter the start IP and the end IP near the **Device Network Segment**, click **Search**, and then the system will automatically search for devices in this IP range.

Figure 5-1 Search for devices



Step 3 Select devices, and then click **Add**.

Step 4 Enter the login user name and password, and then click **OK**.

The devices will be added to the platform.

Figure 5-2 Added devices

Total Devices									
No.	Name	IP	Device Type	Device Model	Port	Number of Chann	Online Status	SN	Operation
<input type="checkbox"/> 1	AC		Door Station		37777	2/0/10/2	● Online		
<input type="checkbox"/> 2	AC2		Access Controller		37777	2/0/0/0	● Offline		

- : Change the information of the device.
- : Goes to the **Device Config** module in the platform.
- : Goes to the webpage of the device.
- : Log out of the device, and the status of the device will become **Offline**.
- : Log in to the device, and the status of the device will become **Online**.
- : Delete the device.

Related Operations

- Change IP one by one: Select a device, and then click **Change IP** to change the IP of the device.
- Change IP in batches: Select multiple devices, and then click **Change** to change their IP addresses.



Enter the start IP, and the system will automatically assign IP to devices through increasing by 1 in the IP address based on the start IP. For example, if the start IP is 10.XX.XXX.52, and the following IP of devices will be 10.XX.XXX.53, 10.XX.XXX.54, and more.

- Initialize devices: Click **Initialize** to initialize devices.



Only supports activating devices which are on the same network segment to your computer.

5.1.2 Adding Device One by One

If you already know the IP address of a device, you can manually add it to the platform.

Procedure

- Step 1** On the home page, click **Devices**.
- Step 2** Click **Add**, and then enter the device information.

Figure 5-3 Add devices

Table 5-1 Parameters of IP adding

Parameter	Description
Device Name	The name of the device.
Add Mode	<ul style="list-style-type: none">IP/Domain Name: Add devices through IP Address.SN (Available on devices that support P2P): Add devices through their serial number.
IP/Domain Name	Enter the IP address or domain name of the device.
Port No.	Enter the port number (37777 by default).
Username	Enter the username and the password of the device.
Password	

- Step 3** Click **Add**.

You can also click **Add and Continue** to add more devices.

5.1.3 Importing Device in Batches

You can export the device information, and then import it to another platform to add devices in batches. We recommend you add devices by importing them when the devices are not on the same network segment.

Prerequisites

A .xml file of device information has been exported. For details, see "5.2 Exporting Devices".

Procedure

- Step 1 On the home page, click **Devices**.
- Step 2 Click **Import** to import the file to the platform.



Devices will be logged in automatically after adding.

5.2 Exporting Devices

You can export device information to local.

Procedure


- Step 1 Select **Devices** on the home page.
- Step 2 Select the device which needs to be exported, and then click **Export**.
- Step 3 Select the local path to export, and then click **Export**.

5.3 Managing Devices

5.3.1 Editing Devices

You can modify the information of added device.

Procedure

- Step 1 On the home page, click **Device**.
- Step 2 Click  near the added devices.
- Step 3 Edit device information.
- Step 4 Click **Save**.

5.3.2 Initializing Devices

You can only initialize devices which are on the same network segment as the computer.

Procedure

- Step 1 On the home page, click **Devices**.
- Step 2 Click **Auto Search**.
- Step 3 Set the range of network segment, and then click **Search**.
- Step 4 Select the uninitialized device, and then click **Initialize**.
- Step 5 Set a password, and then click **Password Security**.
- Step 6 Set security questions, and then click **Modify IP address**.

Step 7 Enter email address.

Step 8 Enter new IP address, subnet mask and gateway, and then click **Finish**.

Figure 5-4 Modify IP address

The screenshot shows a configuration window titled "Modify IP address". At the top, there is a progress bar with three steps: "1. Set a password.", "2. Password security.", and "3. Modify IP address." (the current step, highlighted in blue). Below the progress bar, there are three rows of input fields: "New IP:" with four boxes, "Subnet Mask:" with four boxes, and "Gateway:" with four boxes. At the bottom right, there are three buttons: "Back", "Finish" (highlighted in blue), and "Cancel".

5.3.3 Changing IP

Procedure

Step 1 On the home page, click **Devices**.

Step 2 Click **Auto Search**

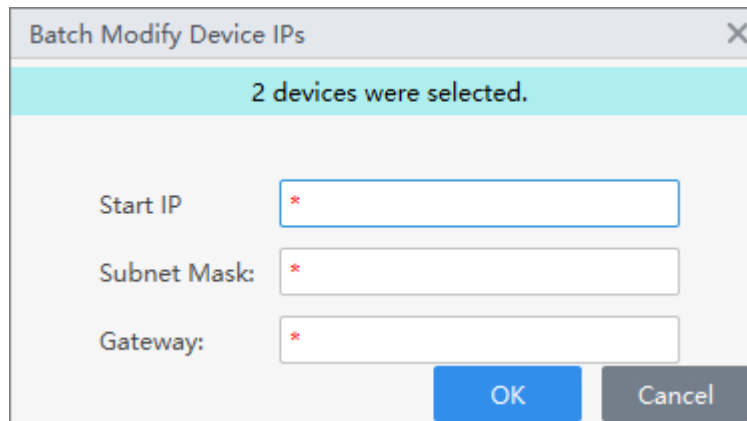
Step 3 Set the range of network segment, and then click **Search**.

Step 4 Select devices, and then click **Change IP**.

Step 5 Change the IP, subnet mask and gateway of the devices.

If you change IP in batches, enter a start IP and the system will automatically assign IP to devices through increasing the IP by one based on the start IP. For example, if the start IP is 10.XX.XXX.52, and the following IP of devices will be 10.XX.XXX.53, 10.XX.XXX.54, and more.

Figure 5-5 Change IP in batches





Step 6 Click **OK**.

5.3.4 Configuring Devices

For some devices, you can perform basic configurations of the device through the platform. This section uses configuring an attendance device as an example.



For some models of devices, you can click  to perform basic configurations of the device through the platform. For others models, you can click  to go to the webpage of the device.

Procedure



- Step 1 On the home page, click **Devices**.
- Step 2 Click  of the attendance device.
- Step 3 You can view the device information and perform some basic configurations on the device.

Figure 5-6 Configure the device




1 [redacted] 3


IP Address: 10 [redacted] SN: N/A

Software Version: V1 [redacted].R. Device Type: The 1 Generation


System



Time




Update




Restarted

Data




Extract Personnel



Extract Attendance Records

Management



Change Password

- Time

Figure 5-7 Time settings

Table 5-2 Parameters of time setting

Parameter	Descriptions
Time	<ul style="list-style-type: none"> ◇ Date Format: Date display format. ◇ Time Format: Time display format. ◇ Time Zone: Time zone of the device. ◇ System Time: Set the time of the device. You can also click Sync PC to synchronize the time of the device to the computer.
Enable DST	Enable DST time of the device.
NTP Settings	The time of the device will be automatically synchronized to the NTP server at the defined interval.

- Update: Upload the update file, and then click **Update**, the device will automatically restart after the update.
- Restarted: Restart the device.
- Extract Personnel: Extract the personnel information from device to the computer.
Click **Extract** to extract the personnel and send them to person management.
Click **Export** to export the information to the local computer.
- Extract Attendance Records: Set the time period and extract attendance records.
- Change Password: Change the password of the device.

5.3.5 Alarm Configuration

Devices whose models are ASC2202B-D can be connected to external alarm devices.


1. Click **Devices**, and then click  near the devices whose models are ASC2202B-D.
2. Click **Local Alarm Linkage**, and then configure the parameters.

Figure 5-8 External alarm

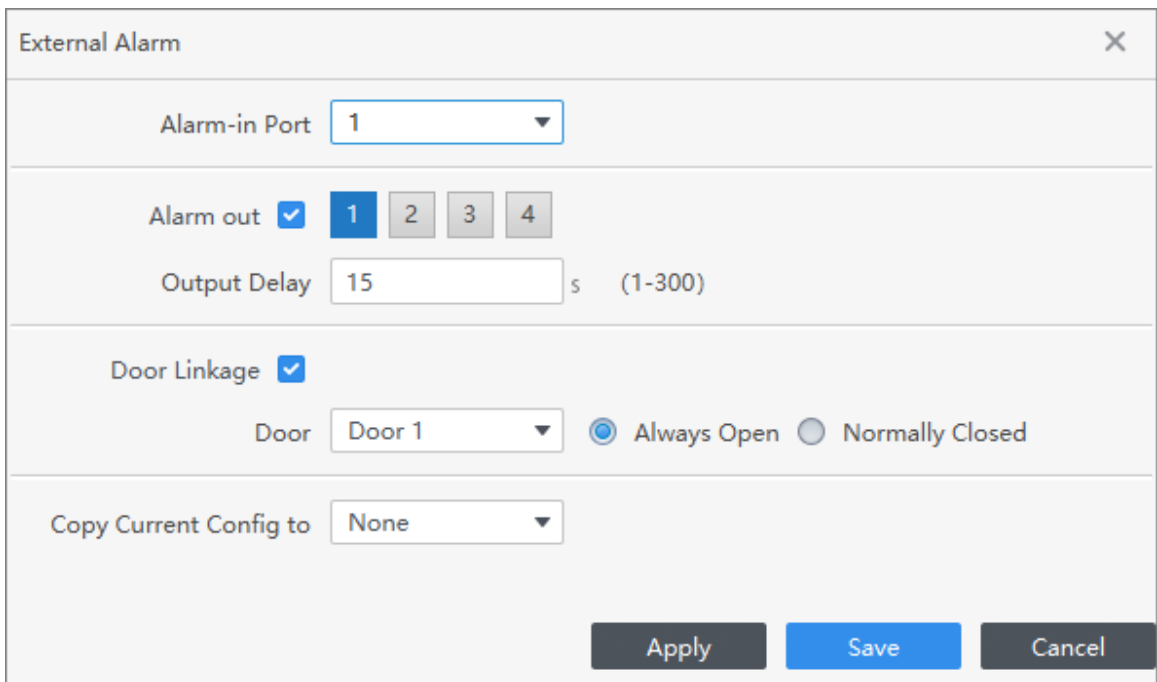


Table 5-3 Parameters of time setting

Parameter	Description
Alarm-in Port	Select an alarm input channel number as needed.
Alarm out	Select an alarm output channel number as needed.
Output Delay	Alarms will be delayed after the defined duration.
Door Linkage	Select the door and its status as needed.
Copy Current Config to	You can copy the current configurations to other devices as needed.

3. Click **Save** to save the alarm configuration.
4. Click **Apply** to apply the alarm configuration.

6 Log Search

You can search for alarm events, client logs and device logs.

Procedure

Step 1 Select **Log Search**.

Step 2 Choose **Client** or **Device** to view the logs as needed.

- Search for **Client** logs.



Client logs record all operations saved on SmartPSS Lite.

1. Select log type in the drop-down list.
2. Select log time, or you can enter some keywords if needed.

Figure 6-1 Query for client logs

No.	Time	Username	Event Type	Device
1	2024-09-02 20:14:40	admin	User Login	
2	2024-09-02 20:10:38	admin	Logged Out User	
3	2024-09-02 16:27:00	admin	User Login	
4	2024-09-02 10:52:20	admin	Logged Out User	
5	2024-09-02 10:19:32	admin	User Login	

- Query for **Device** logs.



Device logs record all device operations saved on the devices, which can be searched for via SmartPSS Lite.

1. Select the device in the list.
2. Select log type and time.

Figure 6-2 Query for device logs

No.	Time	Username	Log Type	Remarks
1	2024-08-29 10:52:58	admin	Config.Save	Address:10...5,Data:DMC...
2	2024-08-29 10:52:52	default	Certificate Mana...	Operation:Import,SN:7DBA1F
3	2024-08-29 10:52:52	default	Certificate Mana...	Operation:ActiveServer...797
4	2024-08-29 10:52:51	default	Certificate Mana...	Operation:Import,SN:EA1F
5	2024-08-29 10:52:51	default	Certificate Mana...	Operation:ActiveServerCe...7
6	2024-08-29 10:52:36	default	Config.Save	Data:VideoAnalyseRule
7	2024-08-29 10:52:36	default	Config.Save	Data:VideoAnalyseModule
8	2024-08-29 10:52:36	default	Config.Save	Data:FaceSnapshot
9	2024-08-29 10:52:07	System	Application star...	Flag:Power off and exit.
10	2024-08-29 10:52:07	System	Abort	Time:2024-08-29 00:28:40

Step 3 Click **Search**.

Step 4 (Optional) Click **Export** to export logs to local device.

7 Event Configuration

When an event or alarm occurs, the system will trigger the defined linkage actions. For example, alarm sound can be triggered when intrusion is detected. This section uses configuring intrusion alarm linkage for a door as an example.



Different devices support different alarm linkages, and might differ from the actual device.

Procedure

- Step 1 On the home page, click **Event Config**.
- Step 2 Select a door, select **Intrusion Alarm** from alarm event, and then enable this function.
- Step 3 Configure the notification linkages, and then click **Save**.

Figure 7-1 Configure notification alarms

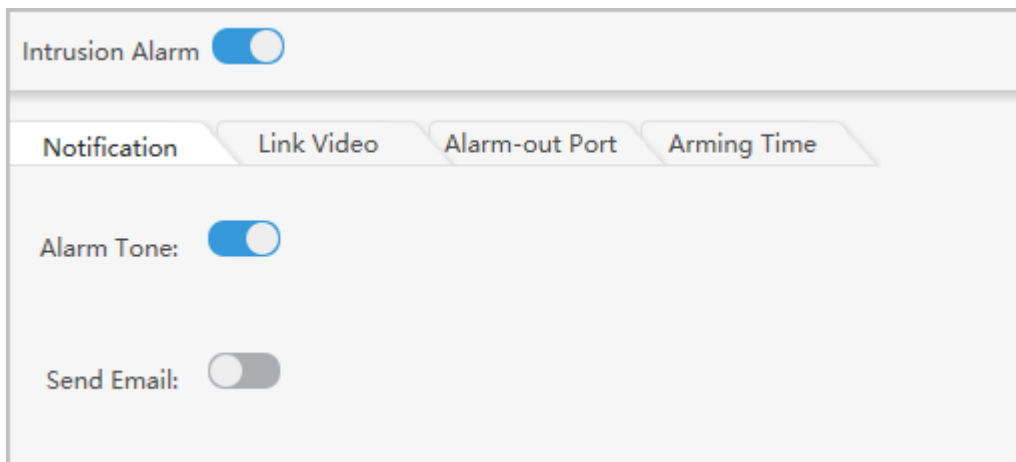


Table 7-1 Parameters description

Parameter	Description
Alarm Tone	The alarm sound will be played when an event occur.
Send Email	After this function is enabled, the system will automatically jump to System page. Click Email Config , and then enable SMTP and configure SMTP parameters.

- Step 4 Configure video linkage.
 1. Click **Link Video**.
 2. Drag video channels to preview windows.
 3. Configure the video linkage parameters.

Figure 7-2 Configure the video linkage

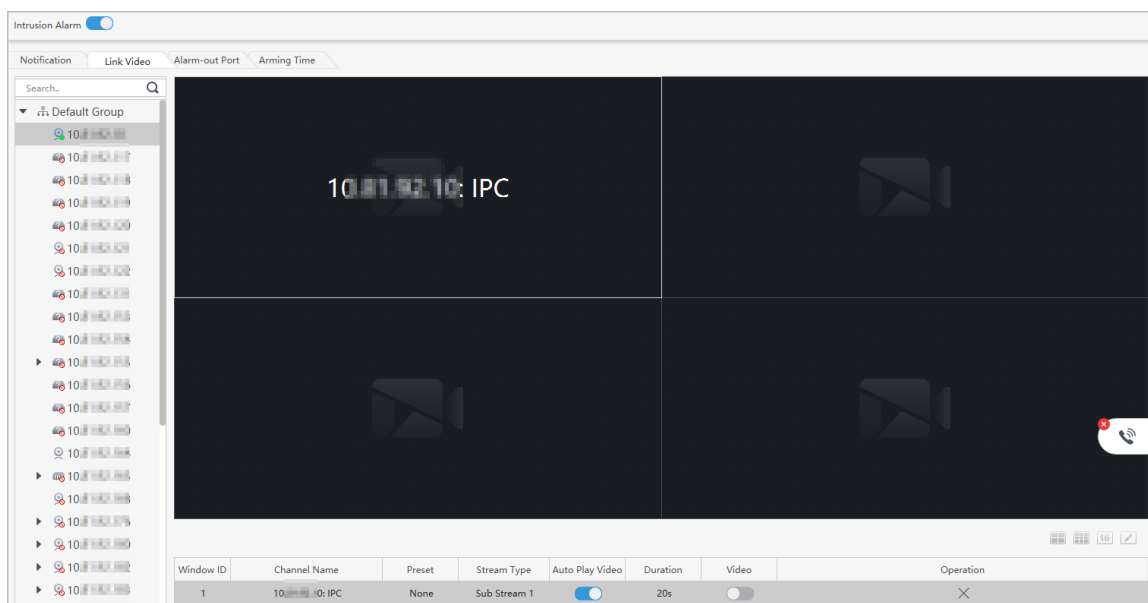


Table 7-2 Parameters description

Parameter	Description
Preset points	If the device supports PTZ function, you can select a preset point.
Preset	If the camera supports PTZ function, you can select a preset point, and then the PTZ camera will go to the defined preset.
Stream Type	Select main stream or sub stream.
Auto Open Video	A live video window is automatically opened and lasts for a defined time when an alarm is triggered.
Duration	
Record	Enable this function and enter the duration. The system will automatically record videos for the define time when an alarm is triggered.
Video	Record video.

4. Click **Save**.

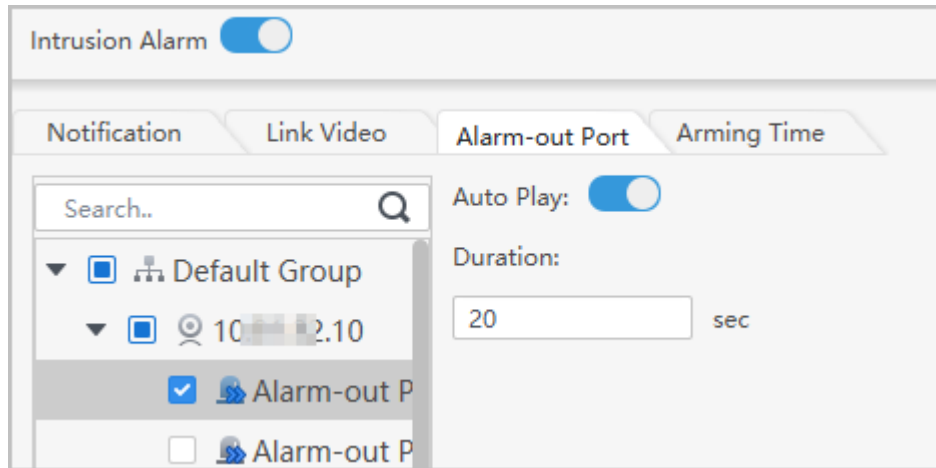
The linked videos will be displayed when an alarm is triggered.

Step 5 Configure alarm output.

1. Select an alarm output.
2. Enable **Auto Play**, and then enter the duration of the alarm.
3. Click **Save**.

The alarm will last for a defined time.

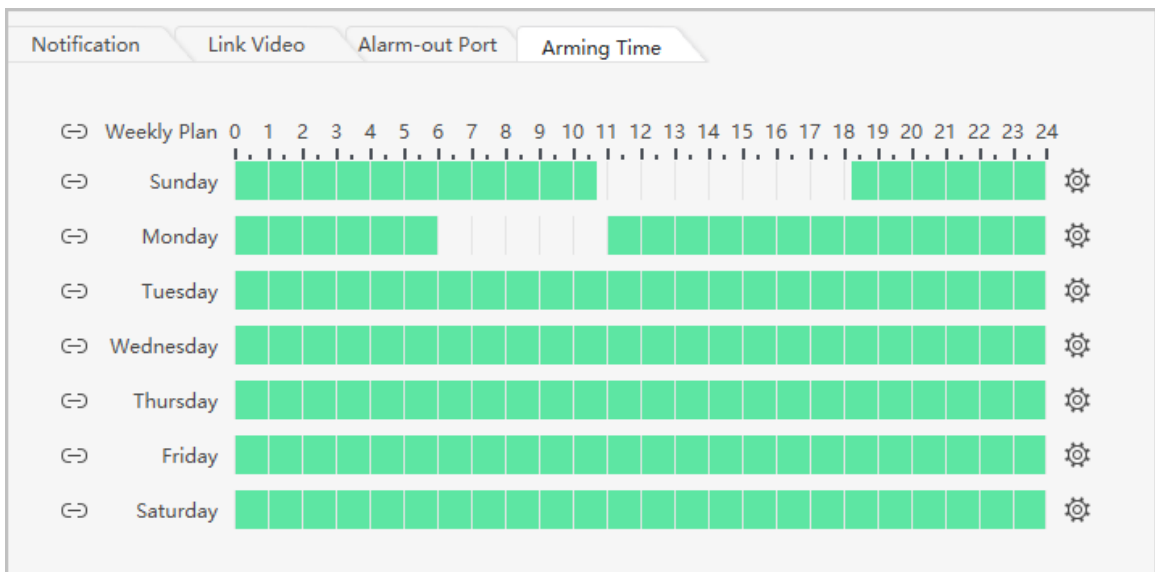
Figure 7-3 Configure alarm output



Step 6 Configure the arming time.

1. When the mouse pointer becomes a pen, hold your mouse button, and then drag to select a time range for each day.
2. If you want to cancel selecting a time range, when your mouse pointer becomes an eraser, hold your mouse button and then drag to delete a time range.

Figure 7-4 Configure the arming time




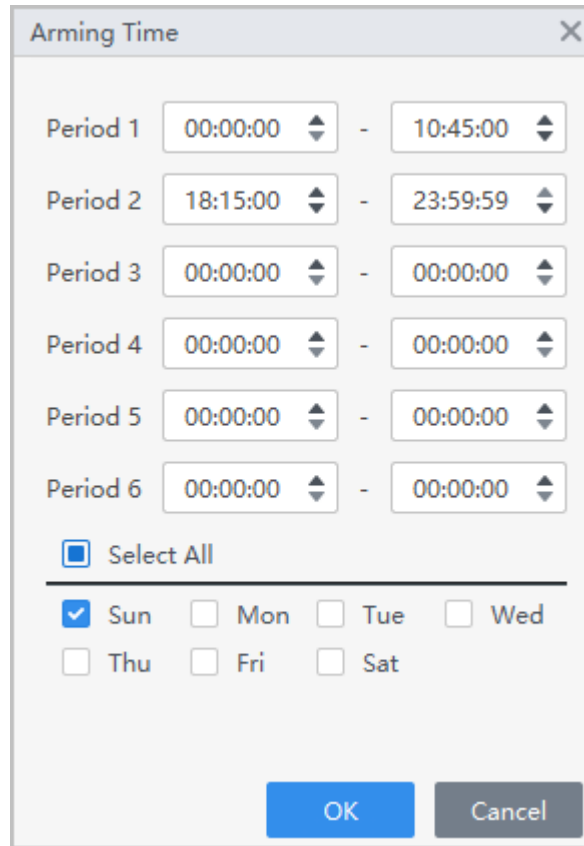
3. You can click  to adjust the time range, or select other days to apply the time range to other days.

Figure 7-5 Apply the time range to other days




The image shows a dialog box titled "Arming Time" with a close button (X) in the top right corner. It contains six rows, each labeled "Period 1" through "Period 6". Each row has two time input fields separated by a hyphen. Period 1 shows "00:00:00" and "10:45:00". Period 2 shows "18:15:00" and "23:59:59". Periods 3, 4, 5, and 6 all show "00:00:00" in both fields. Below the periods is a "Select All" checkbox, which is checked. Underneath is a horizontal line, followed by seven day checkboxes: Sun (checked), Mon, Tue, Wed, Thu, Fri, and Sat. At the bottom right are "OK" and "Cancel" buttons.

Step 7 (Optional) Click **Copy To**, select the access controller to be applied to, and then click **OK**.

Step 8 Click **Save**.

8 Event Center

You can view and process the real-time alarm events. Click  on the upper-right corner of the page to enter the event center.

8.1 Overview

Figure 8-1 Event center

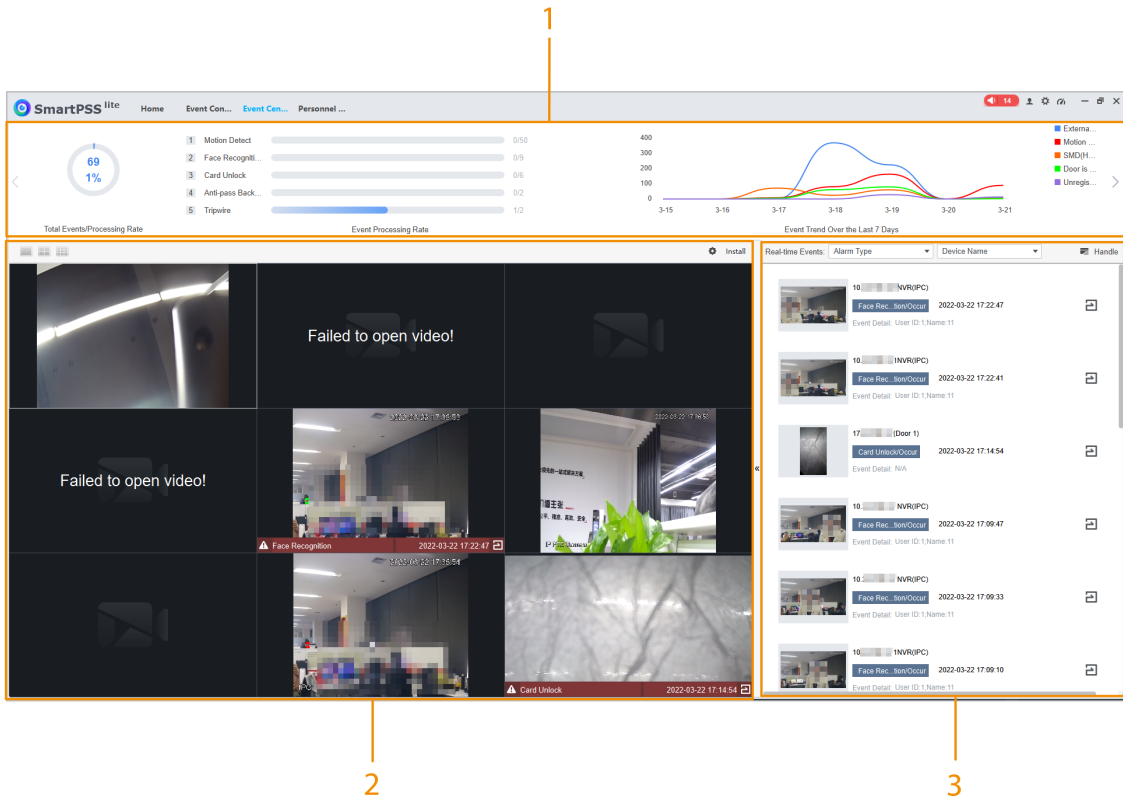





Table 8-1 Description of event center parameters


No.	Parameter	Description
1	Event statistics	<ul style="list-style-type: none"> ● Total Events/Processing Rate : Display the pie chart of the total events and processing rate. Click the chart to view the information of unprocessed events. ● Event Processing Rate : Display the processing rate of different event types in real time. ● Event Trend Over the Last 7 Days : Display the graph of the top 5 event types in 7 days (excluding that day). Point to the graph to display the specific number of the alarm events. <p> Click  to display the details of each alarm event.</p>
2	Live View Video	Preview the configured channel video. Click “  ” to the preview page.

No.	Parameter	Description
3	Real-time Events	View real-time alarm events. You can search event information according to alarm types and devices.

8.2 Configuring Live View Video

Configure live view video channels, and capture channel images, videos and video talks.

Procedure

Step 1 Click  to select the screen number on the **Event Center** page.



It only supports 1, 4, and 9 screen splits.

Step 2 Right-click the screen, click **Stream Type**, and then select the video channel that you want to live view.

Step 3 Click **Install**, and then select the configuration according to actual needs.

Figure 8-2 Install

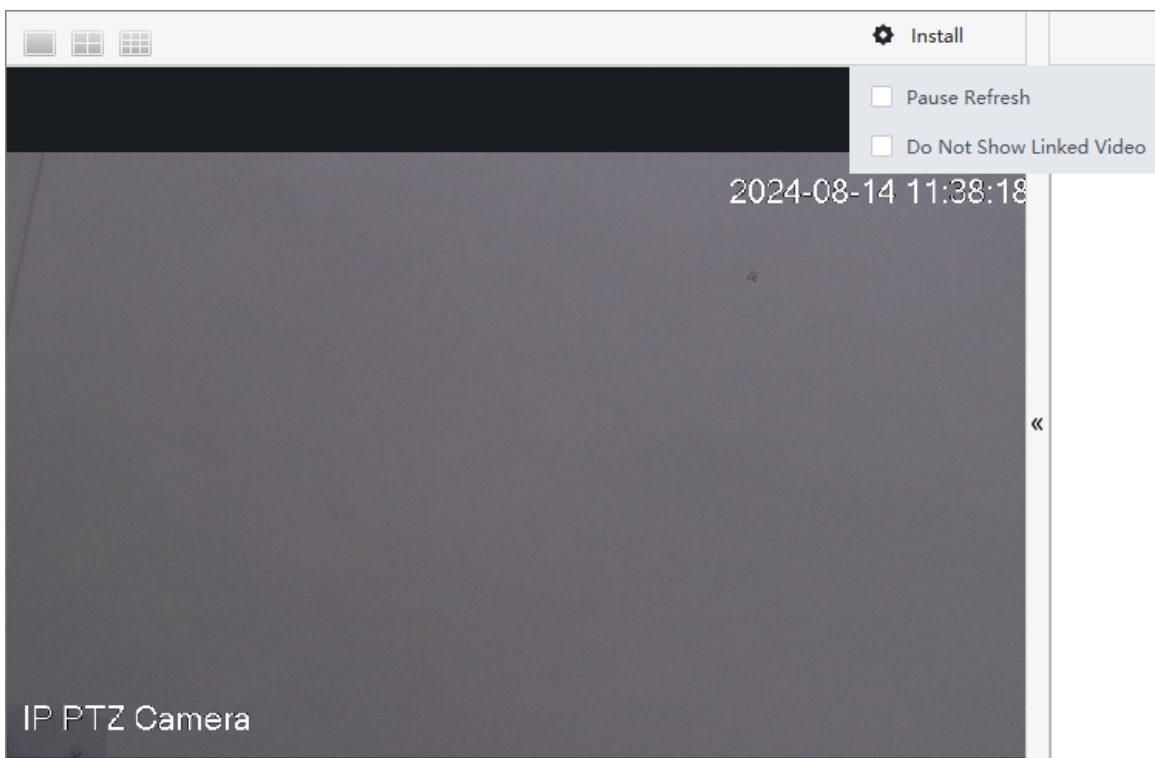


Table 8-2 Setup












Parameter	Description
Pause Refresh	Stop refreshing real-time alarm events.
Do Not Show Linked Video Popup	Stop popping up event linkage video.

Related Operations

Live view video operations.

Point to the screen, and then the shortcut icons will be displayed on the upper-right corner of the window.

Table 8-3 Description of live view operation parameters

Icon	Parameter	Description
	Local Record	Click the icon to record videos in the current screen window. Click the icon again to stop recording and save the video to the computer. The default save path is ".../Data/User/Record". You can change the save path through  > System Config > Local Path > Record Path .
	Visitor Picture	Save the snapshot in the current video screen as an image on the computer (once at a time). The default save path is ".../Data/User/Picture/Capture". You can change the save path through  > System Config > Local Path > Pic Path .
	Audio	Click the icon to turn on or turn off the camera audio.
	Audio Talk	Click the icon to turn on or turn off the audio talk of the corresponding camera.
	Instant Replay	Click the icon to turn on or turn off instant replay function. You can configure the replay time through  > System Config > Basic Setting on the upper-right corner of the page.  There should be some videos on the device before you enable instant replay function.
	Zoom In	Click the icon, and then scroll the mouse wheel to zoom in or out the screen.
	Close Video	Click the icon to turn off the video.

Appendix 1 Security Recommendation

1. Account Management

a. Use Strong 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.

b. Change Password Regularly

It is suggested to change passwords regularly to reduce the risk of being guessed or cracked.

c. Assign Accounts and Permissions Reasonably

According to business and management needs, reasonably add new users, and reasonably allocate a minimum set of permissions for them.

d. Enable Account Lock

The account lock feature is enabled by default, and it is recommended to keep it on to guarantee the account security. If an attacker attempts to log in with the wrong password several times, the corresponding account and the source IP address will be locked.

e. Set and Update Passwords Reset Information Timely

The platform supports password reset function. To reduce the risk of being attacked, please set up related information for password reset in time. If the information changes, please modify it in time. When setting password protection questions, it is suggested not to use those that can be easily guessed.

f. Enable Account Binding IP/MAC

It is recommended to enable the account binding IP/MAC mechanism to further improve access security.

2. Service Configuration

a. Enable HTTPS

It is suggested to enable HTTPS, so that you visit web service through a secure communication channel.

b. Disable Unnecessary Services and Choose Secure Modes

If not needed, it is recommended to turn off some services such as SNMP, SMTP, etc., to reduce risks.

If necessary, it is highly recommended that you use safe modes, including but not limited to the following services:

- SMTP: Choose TLS to access mailbox server.
- FTP: Choose SFTP, and set up strong passwords.

3. Network Configuration

a. Enable Firewall Allowlist

It is suggested to enable allowlist function to prevent everyone, except those with specified IP addresses, from accessing the system. Therefore, please be sure to add your computer's IP address and the accompanying equipment's IP address to the allowlist.

b. Network Isolation

The network should be isolated by partitioning the video monitoring network and the office network on the switch and router to different VLANs. This prevents attackers from using the office network to launch Pivoting attacks on the video monitoring network.

4. **Security Auditing**

a. **Check Online Users**

It is recommended to check online users irregularly to identify whether there are illegal users logging in.

b. **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.

5. **Physical Protection**

It is suggested to perform physical protection to the device that has installed the platform. For example, place the device in a special computer room and cabinet, and implement well-done access control permission and key management to prevent unauthorized personnel from carrying out physical contacts such as damaging hardware.

6. **Perimeter Security**

It is suggested to deploy perimeter security products and take necessary measures such as authorized access, access control, and intrusion prevention to protect the software platform security.