

Thermal Imaging Fever Screening Terminal

User Manual

V1.3.2

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Special Statement

Please strictly abide by the applicable laws and regulations for the use and maintenance of the monitoring interface. Using equipment for illegal purposes or snooping on the privacy of others are all illegal surveillance.

Symbol Description

For the symbols that appear in the document, the description is as follows.

 Cautions: general warning signs, reminding things that should be paid attention to during operation.

 Instructions: instructions are an emphasis and supplement to the main text.

Historical Version

Version	Reviser	Date	Comments
V1.0.0	DML	2019-11-26	
V1.1.0	BYH	2020-03-31	Add instruction of interface lock control
V1.2.0	YM	2020-04-13	
V1.3.0	ZS	2021-01-04	Update web&client operation

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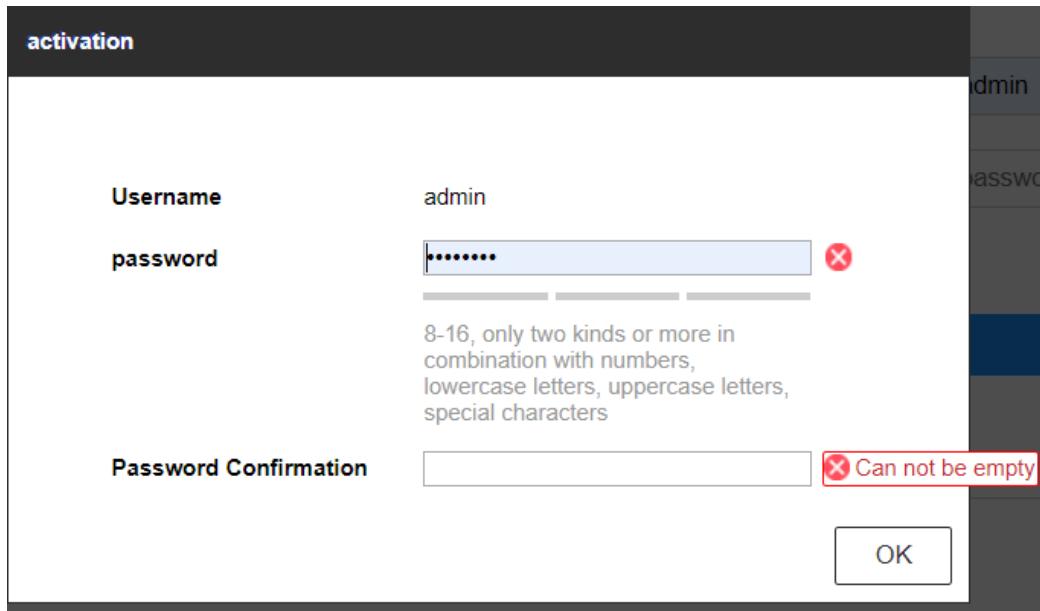
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1. Web Operation

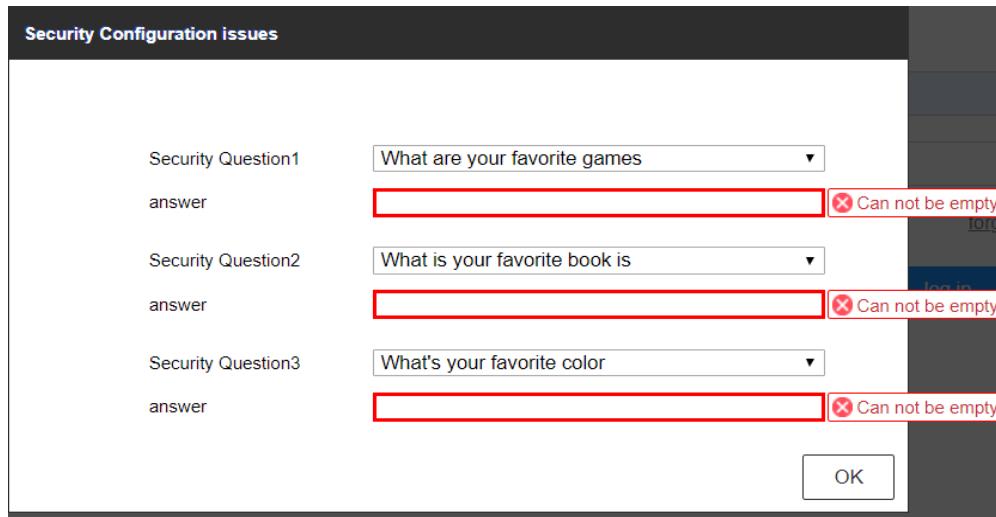
1.1 Passwords Management

1. Initial Passwords Setting

The default administrator account of the camera is admin. For the first time login, set the password according to the popup page box before accessing the camera, as shown in the interface below. After setting the password according to the prompts, click "OK".



When setting the passwords, it is recommended to set the password security questions at the same time for resetting passwords in case of forgetting the password, as shown in the figure below. Select three security questions and set the answers, and click "OK".



2. Modify Passwords

Users can reset security questions and login passwords through the "configure→system→user management" path, as shown in the figure below. Click the "Security Question" button to reset the password security questions. Select a user and click the "modify" button to reset the user's password. Administrator rights are required to reset the security questions and change the passwords, and the passwords can be modified only after administrator passwords is entered and verified.

The screenshot shows the "User Management" section of the configuration interface. On the left, a sidebar lists various system modules: System, Communication, Video, Image, Algorithm, and Face Database. The "User Management" option is selected and highlighted with a blue border. The main content area has a header "User Management" and a sub-header "User List". A table displays the user information:

No.	Username	User Type
1	admin	Administrator

At the top right of the table are two buttons: "Security Question" and "Modify".

3. Reset Passwords

Click "Forgot password?" button on the login interface when passwords are forgotten, as shown below. Enter the answers to the security questions and reset the passwords.



1 2 3

Verify identity Set a new password carry out

Ways of identifying	<input type="text" value="Security verification"/>
Security Question1	<input type="text" value="What are your favorite games"/>
answer	<input type="text"/>
Security Question2	<input type="text" value="The first plane is where you go"/>
answer	<input type="text"/>
Security Question3	<input type="text" value="Your favorite car brand is what"/>
answer	<input type="text"/>

1.2 Interface Introduction

On the Web main interface of the camera, you can preview and configure other functions.

1.2.1 Web Login

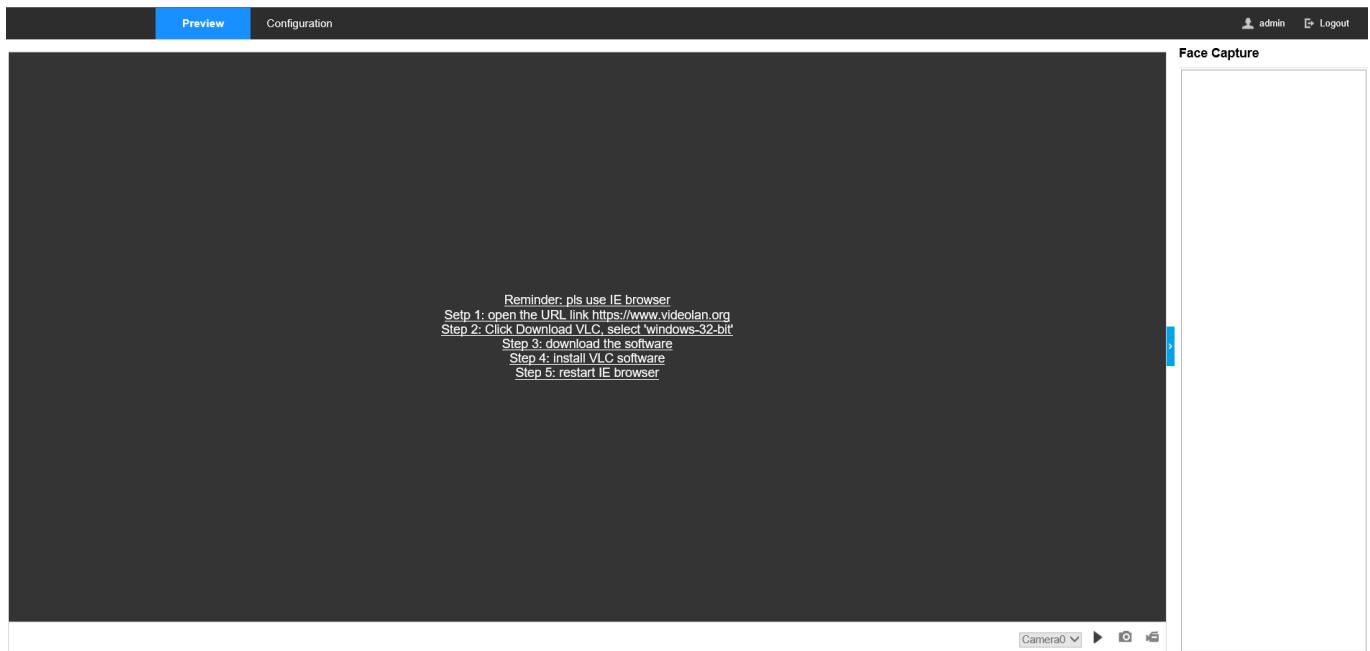
Enter http://IP address in the browser address bar, and the following login interface will appear. Enter user name and password to log in. (The IP by default is http://192.168.1.123).



1.2.2 Preview Interface

In addition to the preview screen, you can also view the images captured by the camera in real time on the preview interface. Click the triangle icon on the right side of the browser interface as shown in the figure below to expand the collapsed area to view it.

Up to 10 images can be displayed.

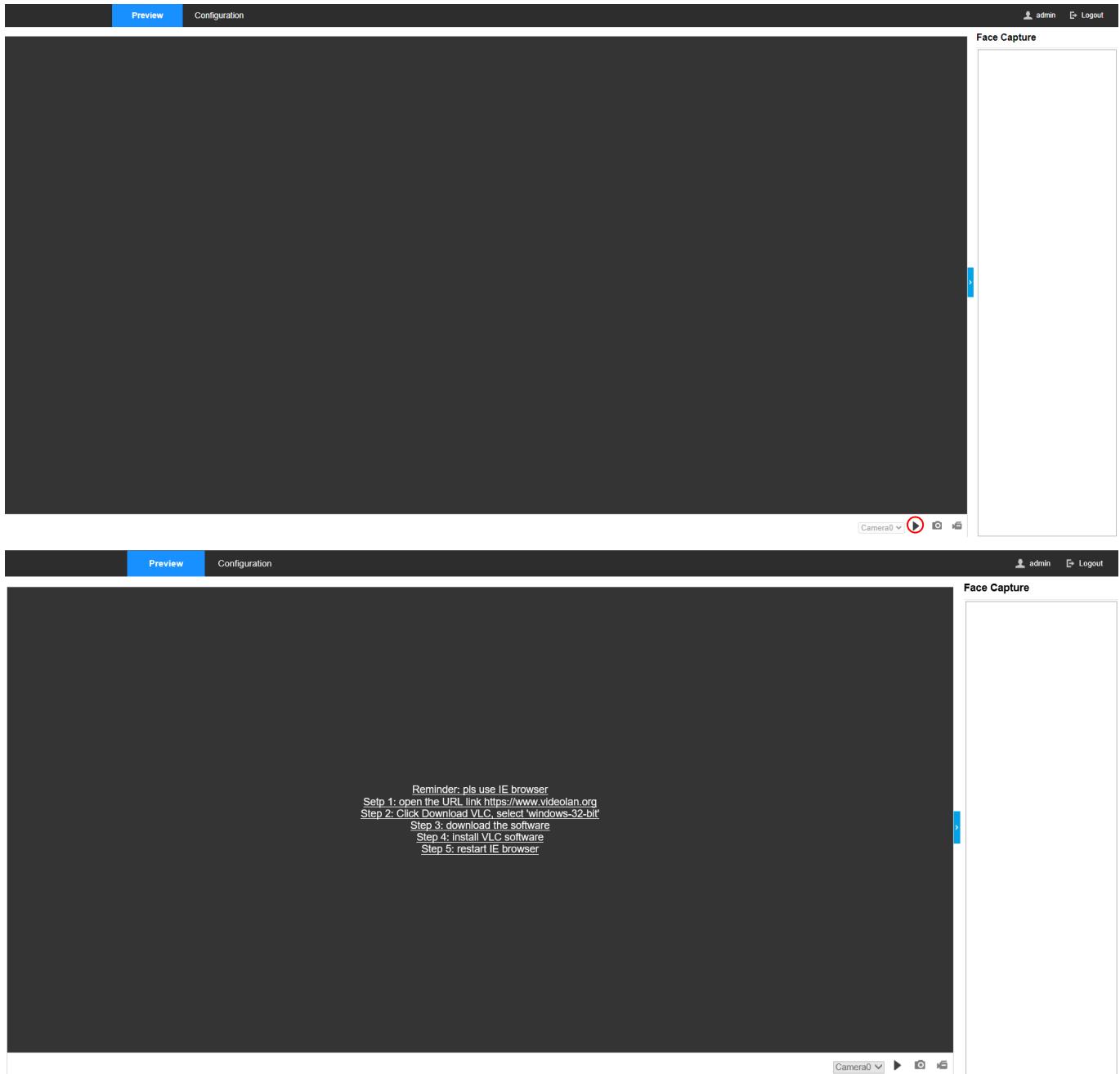


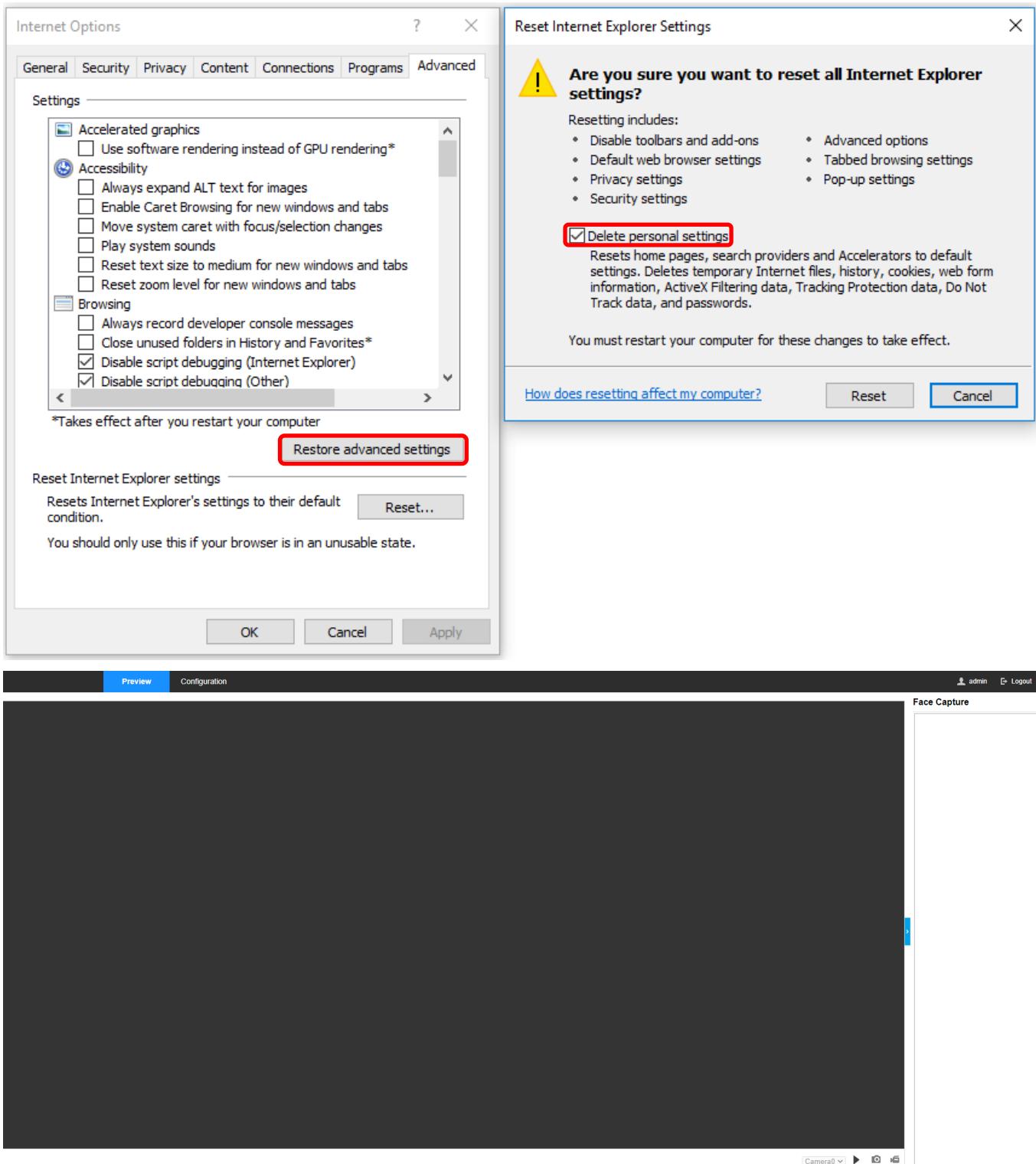
VLC for Windows

VLC is a free and open source cross-platform multimedia player and framework that plays most multimedia files as well as DVDs, Audio CDs, VCDs, and various streaming protocols.

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Version 3.0.16 • Windows • 38 MB
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1.3 System Setting

(1) System→System Settings→Basic Information. You can check relevant information of device model and software version, and set device name and number, etc. Click "save" button after setting.

Basic Information	Time Configuration	Logo Settings	Summer Time	Scheduled Task
Device Name	热成像人体测温门禁面板机			
Device ID	IRS-AC822-H			
Device Model				
Device Serial Number	0500847B			
Hardware Version	v2.1			
Sdk Version	0.0.0.34fix4-APP_30-20210804-1750-0-F0001-8inch			
Algorithm Version	0.4.0ST4.15.233f4P108, 20210730T113703			
Web version	0.1.0_33f4, 2021/05/13			
Thermal Vendor	Infiray			
Thermal Serial	0118040607			
Thermal Firmware	0.0.1			
Thermal SDK Version	0.0.2.16.20210702			

 Save

(2) System→System Settings→Time Configuration. Support time zone switch, NTP calibration, manual calibration and other operations. Click the "save" button after selecting the items to be set.

Basic Information **Time Configuration** Logo Settings Summer Time Scheduled Task

Time Zone **(GMT + 08: 00) Beijing, Urumqi, Taipei, Singapore** 

NTP Timing

NTP Timing

Server Address

NTP Port

Time Interval Minutes

Manual Timing

Manual Timing

Device Time

Setting Time  Synchronize With Your Computer Time

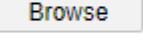
 **Save**

(3)System→System Maintenance→logo. You can set the company name and logo on the web page.

Basic Information Time Configuration **Logo Settings** Summer Time Scheduled Task

Company Name

Company Logo

Replace Logo  (jpg|png, <300kb)

 **Save**

(4)System-System Settings-Summer Time, this can start summer time during a certain period of time.

Basic Information Time Configuration Logo Settings **Summer Time** Scheduled Task

Enable DST

Start Time April First Sunday 02
End Time October Last Sunday 02
Time Offset 60Minutes

 Save

(5) System-System Settings-Scheduled Task, this can only can perform scheduled restart, that is to restart the device at fixed time.

Basic Information Time Configuration Logo Settings Summer Time **Scheduled Task**

Enable Scheduled Reboot

 Save

(6) System-System Maintenance-Upgrade, this can restart the camera and update the camera firmware. Select the img file to be updated via browse button, click update and select OK in the pop-up prompt dialogue box to start updating.

[Upgrade And Maintenance](#) Thermometer Upgrade

Language	
Language	<input type="button" value="English"/> 
Reboot	
Reboot	Restart the device.
Reset	
System Recovery	Recover device to factory settings.
All Recovery	Recovery device all settings
Upgrade	
Upgrade Img 	<input type="text"/>
	Browse Upgrade
status	

Explanation: The upgrade process takes 1-10 minutes, do not turn off the power, complete automatic restart after the upgrade.

(7) System-System Maintenance-Thermographic module update, this function is unavailable for the present model, it can only display the basic information of the thermographic module.

[Upgrade And Maintenance](#) [Thermometer Upgrade](#)

Basic Information	
Thermal Vendor	<input type="text" value="Infiray"/>
Thermal Serial	<input type="text" value="0118040607"/>
Thermal Firmware	<input type="text" value="0.0.1"/>
Thermal SDK Version	<input type="text" value="0.0.2.16.20210702"/>

(8) System-User Management, an ordinary user can be added besides the defaulted admin account, which can be added via add button, the ordinary user owns only preview permission, but without configuration permission. The ordinary user can be added or deleted, the password can be changed for the admin account.

User Management

User List		Security Question	Add to	Modify	delete
No.	Username	User Type			
1	admin		Administrator		

1.4 Advanced Configuration

1.4.1 Network Configuration

(1) Wired Network

Network- Basic Configuration-TCP/IP, select the wired LAN for the LAN type, which can change the IP address of the camera, click OK to save the settings, the camera will restart and the new IP address will be used, the new IP address should be used to login during the web reconnection.

TCP/IP

NIC type

Wired

Network Card 1 Automatic Acquisition

IPv4 Address

192.168.1.123

test

IPv4 Subnet Mask

255.255.255.0

IPv4 Default Gateway

0.0.0.0

MAC Address

00:15:18:88:DB:A0

MTU

1500

byte

DNS Server Configuration

Preferred DNS Server

Alternate DNS Server

 Save**(2) Wireless Network**

Network-Basic Configuration-TCP/IP, select the wireless LAN for the LAN type, then connect Wi-Fi after typing in the corresponding Wi-Fi account and password.

TCP/IP

NIC type	Wireless
Wifi Network Mode	STA Mode
SSID	Guest
password	qwertyui
<input checked="" type="checkbox"/> Automatic Acquisition	
IPv4 Address	
IPv4 Subnet Mask	
IPv4 Default Gateway	
MAC Address	7C:25:DA:BC:EC:CB



1.4.2 Advanced Configuration

Network-Communication→ Advanced Configuration, the HTTP, HTTPS port settings and certificate update operations can be performed.

HTTP

HTTP Port	80	(1-9999)
HTTPS Port	443	(1-9999)
HTTPS Certification	<input type="button" value="Browse"/>	
<input type="checkbox"/> HTTP API AUTH		

1.5 Video and Audio

Video and Audio- Video, this can configure the code rate of the video, then click save button.

(1) Configure the video bit rate information, and click the "Save" button after setting.

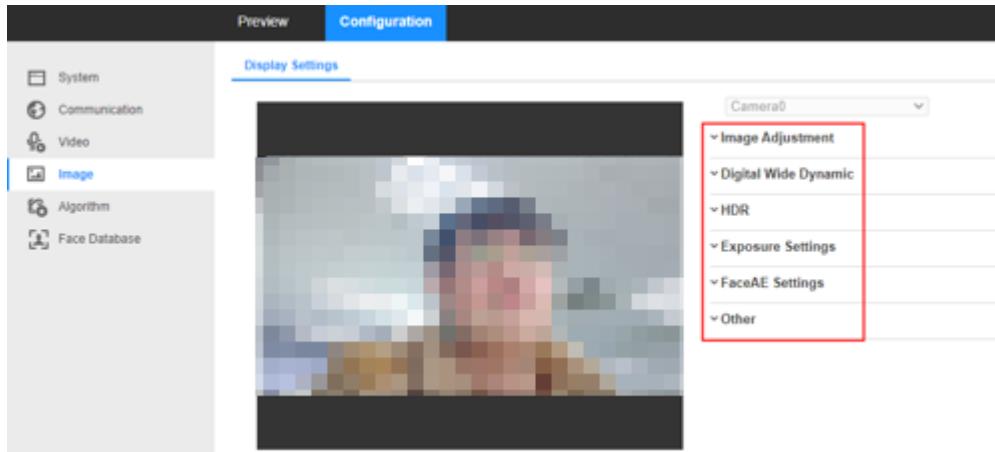
Video

Camera Name	Camera0
Stream Type	Main stream
Video Type	Video stream
Resolution	1280*720
Rate type	Fixed rate
Video Frame Rate	25
Average Bitrate	1536 Kbps
Video Encoding	H264
I Frame Interval	50

Save

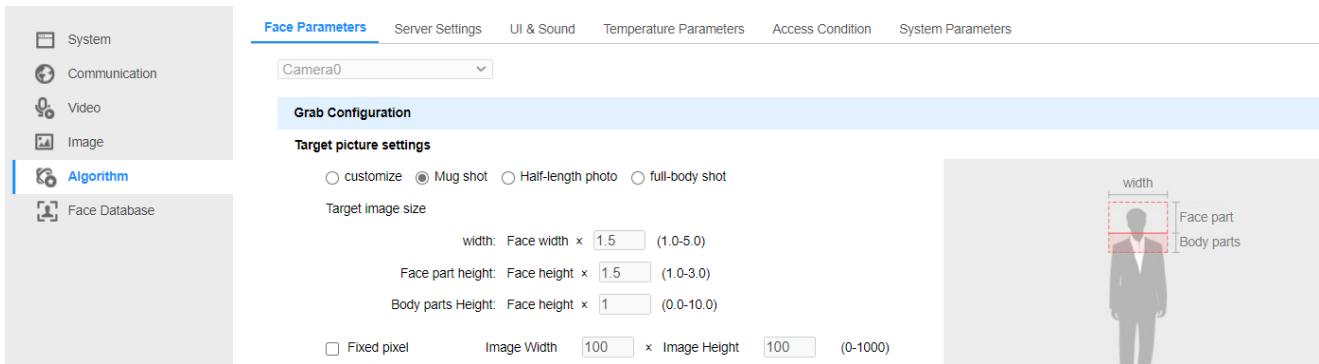
1.6 Image

(1) Image→ Display setting. Image display parameters can be adjusted, including brightness, contrast, saturation, sharpness, digital wide dynamic, HDR, Exposure, Face AE and so on.



1.7 Algorithm

(1) Algorithm→Face Parameters→Grab Configuration, which can set the target image type and size. Click the "save" button after setting.



(2) Algorithm→Face Parameters. You can set the relevant parameters of the snapshot, and click the "Save" button after setting.

Notes: the face width and height control the filtering face in face parameters; the recognition threshold is used for ordinary face match, 1:1 recognition threshold is used for ID card match, threshold of the mask face recognition is used for face match with masks. There are three levels for liveness threshold: low, medium and

high, it is low by default, the higher the level is , the easier it is to pass.

Face Parameters

Default Settings

Max Width	<input type="range" value="400"/>	400
Min Width	<input type="range" value="40"/>	40
Max Height	<input type="range" value="400"/>	400
Min Height	<input type="range" value="40"/>	40
Max Yaw	<input type="range" value="30"/>	30
Min Yaw	<input type="range" value="-30"/>	-30
Max Pitch	<input type="range" value="30"/>	30
Min Pitch	<input type="range" value="-30"/>	-30
Max Roll	<input type="range" value="30"/>	30
Min Roll	<input type="range" value="-30"/>	-30
Score Threshold	<input type="range" value="40"/>	40
Front Threshold	<input type="range" value="50"/>	50
Blur Threshold	<input type="range" value="30"/>	30
Recognize Threshold	<input type="range" value="90"/>	90
Recognize Threshold(1:1)	<input type="range" value="50"/>	50
Recognize Threshold(without 1:1)	<input type="range" value="70"/>	70
Liveness Threshold	<input checked="" type="radio"/> low <input type="radio"/> medium <input type="radio"/> high	

💾 Save

(3) Algorithm→Threshold→Server Settings, which can set HTTP or MQTT upload services. You can set the resumable upload settings and the upload server address, and private cloud service. Click the "Save" button after setting the relevant information, and then log in to the cloud server to manage users, devices, and

captured images.

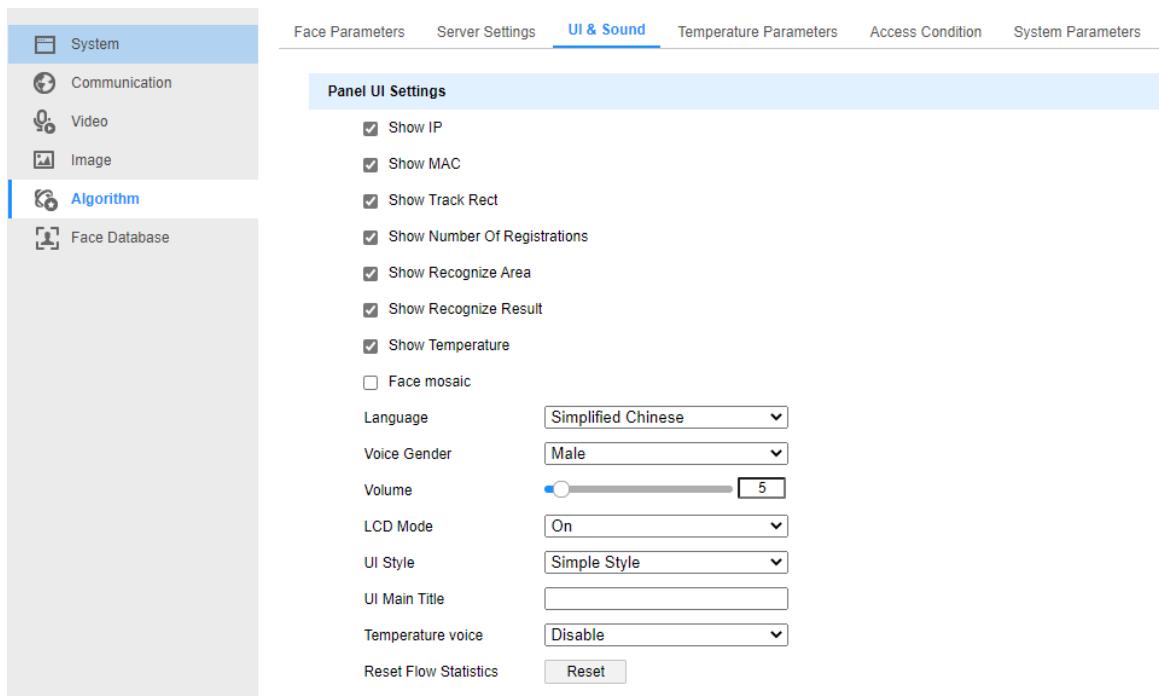
The screenshot shows the 'Server Settings' tab selected in a navigation bar. Below it are several configuration sections:

- Service Mode:** A dropdown menu set to "Recognize Mode".
- HTTP Upload Server Settings:** An unchecked checkbox labeled "Enable HTTP Upload".
- MQTT Upload Server Settings:** Input fields for Mqtt Posting URL, Mqtt Topic, Mqtt Certification (with a "Browse" button), Mqtt Client ID, Mqtt UserName, and Mqtt Password.
- Break Point Upload Settings:** An unchecked checkbox labeled "Enable Break Point Upload".
- Picture upload settings:** A dropdown for "Image Quality" set to "general" and another for "Picture resolution" set to "720P(1280*720)". Below these are four checked checkboxes: "Background img upload", "Capture Img Upload" (checked), "Infrared Img Upload" (checked), and "Register Img Upload" (checked).
- Cloud Settings:** An unchecked checkbox labeled "Enable".
- DaKaBG Cloud:** An unchecked checkbox labeled "Enable".

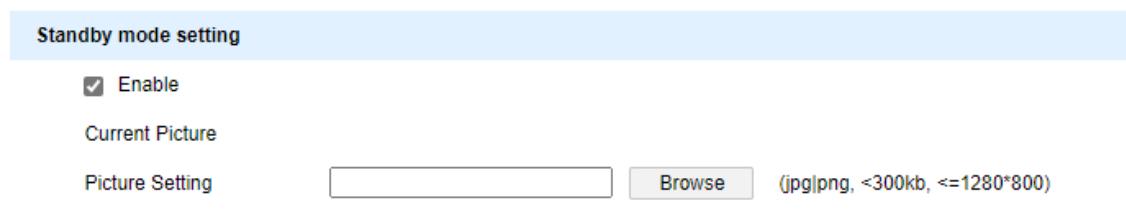
(4) Algorithm→UI&Sound→Panel UI Setting. It is mainly used to set the interface display of the screening terminal, the audio setting, the control of the compensation light, and the UI display style.

Only the simplified Chinese and English are available for skin temperature voice broadcast, the temperature value broadcast is only available in simplified Chinese and by female voice.

For the screening terminal with the function of access statistics, you can click the button "Reset Access Statistics" at the bottom of UI Settings to reset the access statistics.



(5) Algorithm→ UI&Sound→Standby Mode. If nobody passes in one minute, the device will enter into standby interface after this function is enabled, the custom pictures can be displayed on the standby interface, time display by default.



(6) Algorithm→ UI&Sound→Advertising Display. The infrared image area can be replaced by the advertising pictures.

Ad display settings

Enable

Current Picture

Picture Setting Browse (jpg|png, <300kb, <=800*450)

(7) Algorithm→UI&Sound →Alarm Email. This function is to send an Email to the target accounts when the body temperature or mask is abnormal. The “smtpPort” can be set according to 465 by default. Several “emailTargetAddress” can be set, which should be separated by English commas.

Alarm mail settings

Enable

smtpServer

smtpPort

emailAccount

emailPassword

emailTargetAddress

emailTitle

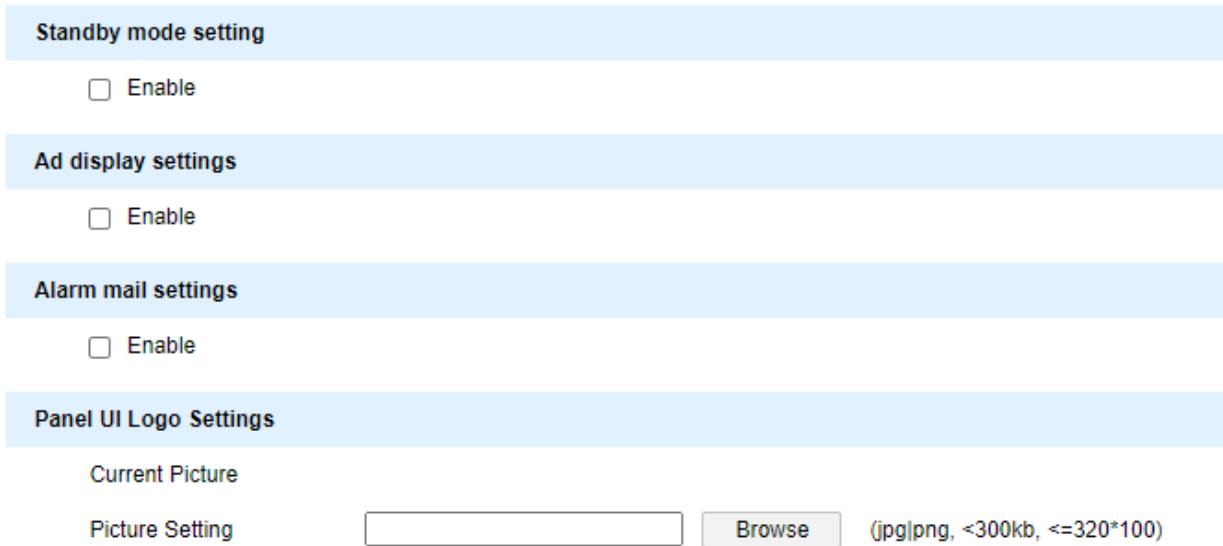
(8) Algorithm→UI&Sound →Logo. This can set the logo on the UI, the main interface title will be displayed if the logo is not set. If the main interface title is not set, then “Smart Terminal” will be displayed by default.

Panel UI Logo Settings

Current Picture

Picture Setting Browse (jpg|png, <300kb, <=320*100)

(9) Algorithm→UI&Sound→Startup Logo, Standby Mode, Alarm Email and Background Picture.



(10) Algorithm→UI&Sound→Panel Sound and Picture Settings (Confirm Enable Attribute)

Single alarm: the alarm warning only appears once for every single face.

When living scene are turned on, the picture and voice of the setting will be displayed when there are no live body faces.

In case of the stranger warning scene is turned on, the picture and voice set in the corresponding scene will be displayed when a stranger appears.

Custom warning include mask, high temperature, low temperature, passthrough, liveness and stranger, the specific pictures and voices are set for different scenes.

Custom sound and picture (Confirm Enable Attribute)

Prompt settings

- Enable Single Warning
- Enable Liveness
- Enable Stranger Warning

Mask reminder customization

- Enable

High temperature reminder customization

- Enable

Low temperature reminder customization

- Enable

Pass reminder customization

- Enable

Live reminder customization

- Enable

Stranger reminder customization

- Enable

Save

(11) Algorithm→Thermographic Parameters

The thermographic parameters include above temperature limit, below temperature limit, curve mode, etc. Several body temperature can be displayed at the same time after the multiple thermographic mode is enabled.

Face Parameters Server Settings UI & Sound **Temperature Parameters** Access Condition System Parameters

Temperature Settings

- Multi-person temperature measurement mode

Temperature Parameters

Temperature Unit	<input type="button" value="Celsius Degree"/>
Min Temperature	<input type="text" value="35.0"/> °C (30.0 ~ 45.0)
Max Temperature	<input type="text" value="37.3"/> °C (30.0 ~ 45.0)
Offset Body Temperature	<input type="text" value="0.0"/> °C (-0.5 ~ 0.5)
Env Temp Offset	<input type="text" value="-11.0"/> °C (-20 ~ 20)
Env Temperature	<input type="text" value="27.1"/> °C
Emulate Temperature Mode	<input type="button" value="Normal"/>
Face temperature mode	<input type="button" value="forehead"/>

Save

(12) Algorithm→Access Condition→Unlock Condition

The unlock condition is to set the entire access mode, which includes several approval modes and their combinations.

The epidemic prevention mode means whether the requirement of body temperature, mask or QR code is met, which can be single or combination.

Single Approval	Face/card swiping	Face match succeeds or the card match succeeds, then pass with the unlock permission.
	ID card match	Compare between face and ID card, pass if the two matches
	Epidemic prevention passthrough	pass if the epidemic prevention requirements are met.
Combination Approval	Face+Epidemic prevention	The epidemic prevention requirement is met, face match succeeds, then pass with unlock permission
	Card swiping +Epidemic prevention	The epidemic prevention requirements are met, swiping card, then pass with registration and unlock permission
	Face+Card Swiping+ Epidemic prevention	The epidemic prevention requirements are met, then pass with successful face match and card number match

	Health code scanning+Epidemic prevention	The epidemic prevention requirements are met, scan the health code, then pass with non-red code
--	--	---

Meet the epidemic prevention requirement: meet all the ticked modes in the epidemic prevention mode options. If the body temperature is ticked, then the body temperature must be normal; If the mask is ticked, then the mask must be worn. If the code scan is ticked, then the QR code must be scanned (The QR code is just a record) .

Face match succeeds: the face has been registered in the face database, and must be matched with the swiping face.

Card number match succeeds: the swiping card number has been registered in the face database. The card number can be read via USB card reader, built-in card reader or Wiegand.

Unlock permission: the person registered has white lists or permission group.

Unlock Condition (Confirm Enable Attribute)**Access Verification Settings**

Single Verification Combination Verification

Single Verification ID Card

Combination Verification Face+Prevention

IDCard Read Mode

IDCard Read Mode None

Prevention Mode

BodyTemperature Mode

Mask Mode

Scan Code Mode

(13) Algorithm→Access Condition→Wiegand Settings.

wiegand Settings

Wiegand Mode	Wiegand Input
Wiegand Bits	26
Wiegand Format	Wiegand26
type	Card Number

 Save

(14) Algorithm→System Parameters→Normal Settings.

The body temperature mode and mask mode should be ticked in the epidemic prevention mode, and also the attribute analysis should be enabled.

If the stranger attendance is not ticked, then the unmatched face records will not be saved in the attendance records after the attendance records function is enabled.

Normal Settings

Attribute Settings

Enable

Attribute Interval (ms) [2000]

Recognize Settings

Recognize Interval (ms) [2000]

Attend Log Settings

Enable Store Attend Log

Attend Interval(min) [0]

Enable Store Stranger Log

Enable image storage

(15) Algorithm→System Parameters→Alarm Settings.

Alarm Settings

Alarm Out Settings

Abnormal Temp Link

Abnormal Mask Link

Strangers Alarm Link

BlackList Link

Alarm duration (MS) (0: d...) [1000]

Alarm input settings

Alarm index [▼]

Trigger mode [▼]

Input enable

Enable lock control

Save

1.8 Face Database

1.8.1 Add Face

The face database can be added, viewed, changed and deleted on the face adding interface.

Name*	<input type="text"/>	Gender	<input type="text" value="Female"/>	Age	<input type="text"/>	Work ID*	<input type="text"/>				
Cert Type	<input type="text" value="ID Card"/>	Cert Number	<input type="text"/>	Phone	<input type="text"/>	Email	<input type="text"/>				
Address	<input type="text"/>	Picture	<input type="file"/>	Browse		Card Number	<input type="text"/>				
<input type="checkbox"/> Search		<input type="checkbox"/> Add To Whitelist		<input type="button" value="Add Person"/>	Progress: NA	<input type="button" value="Add Persons"/>	<input type="button" value="Delete Current Page"/>	<input type="button" value="Clear all"/>	Progress: NA	<input type="button" value="Export Persons"/>	
Work ID	Name	FIO sheet	Gender	Age	Cert Type	Cert Number	Card Number	Phone	Email	Address	Operation
002134	sxp		Male	30	ID Card	123456787543	420760418				   
Head Page	x	1	x	Tail Page	1 Count / Page	Total 1 Page	1 Count				

1.8.2 Snapshot Records

Perform real-time person information snapshot, and the enquiry during a given time period is available and attendance records can be exported.

1.8.3 Access Daily Record

All the access information can be searched and exported.

Start Time	2020-01-01T00:00:00	End Time	2021-08-12T14:49:27	Search	Progress: NA	<input type="button" value="Export Access Log"/>
Serial Number	Name	Work ID	Card Number	Event Type	Verify Type	Time
23	sxp	002134	420760418	No Access	Face Certification	2021-08-09 19:22:31
22				Open Door		2021-08-09 19:22:41
21				Open Door		2021-08-09 19:22:38
20				No Access	Card Certification	2021-08-09 19:22:29
19				No Access	Card Certification	2021-08-09 19:22:25
18				No Access	Card Certification	2021-08-09 19:22:23
17				No Access	Face Certification	2021-08-09 19:22:22
16				No Access	Card Certification	2021-08-09 19:22:22
15				No Access	Face Certification	2021-08-09 19:22:17
14				No Access	Face Certification	2021-08-09 19:22:15
13				No Access	Card Certification	2021-08-09 19:21:38
12				No Access	Card Certification	2021-08-09 19:19:53
11				No Access	Face Certification	2021-08-09 19:19:30
10			42	No Access	Face Certification	2021-08-09 19:19:19
9			42	No Access	Card Certification	2021-08-09 19:18:53

2. Client Software Operation

You can configure and operate the screening terminal through the ARFaceManager client software. This chapter mainly introduces access control related functions and

operation steps.

2.1 Preview Videos

2.1.1 Real-time Preview

2.1.1.1 Real-time Images

The real-time preview interface can watch the real-time images of a group of 4 devices at the same time. If there are more than 4 devices in the local area network, you can right-click in the preview window, and then select the next group/previous group in the pop-up menu.

2.1.1.2 Save Captured Images

You can set whether to save the captured images. When set to No, the screening terminal will not save (nor export) the captured images.

2.1.1.3 Display Temperature

The temperature unit displayed on the preview interface can be set (**this setting has nothing to do with the temperature unit displayed on the panel or in the export table**).

2.1.1.4 Enable Door Lock

After the screening terminal is correctly connected to the door lock, click the "Unlock" in the red circle to enable the door lock.

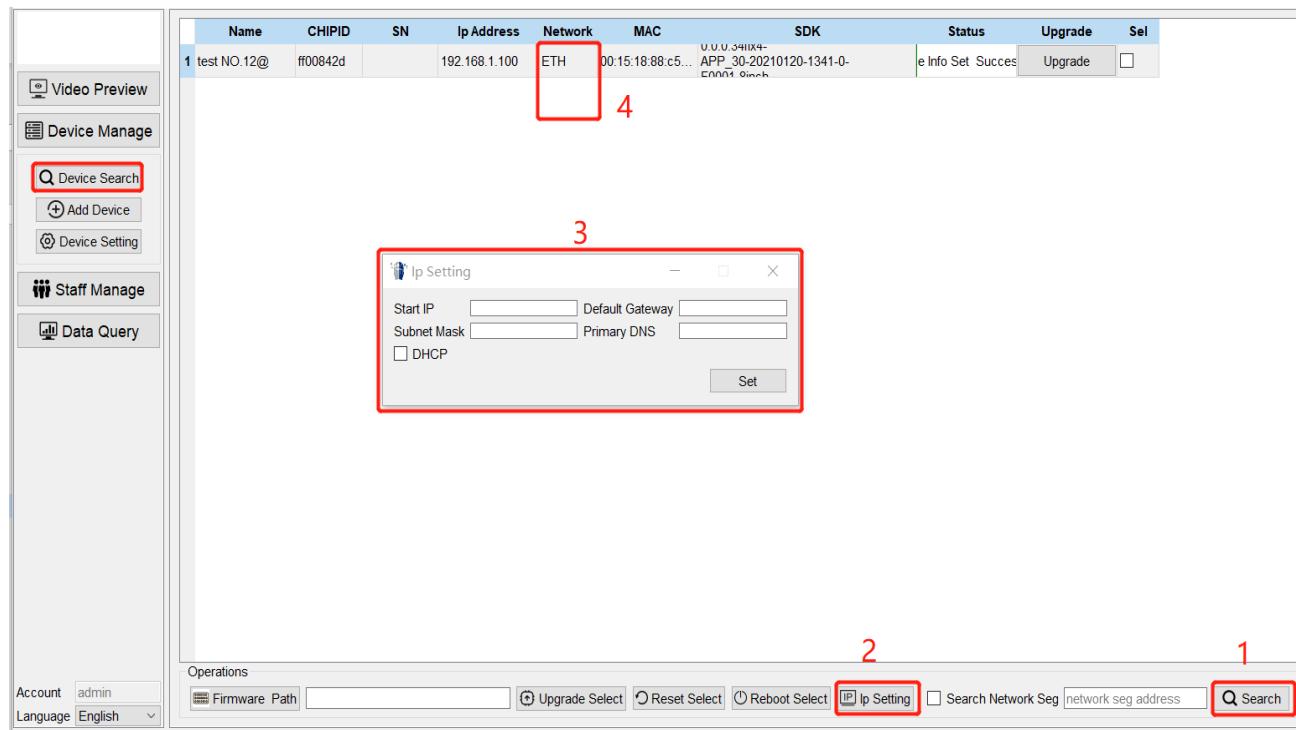


2.2 Device Management

2.2.1 Search and Add Device

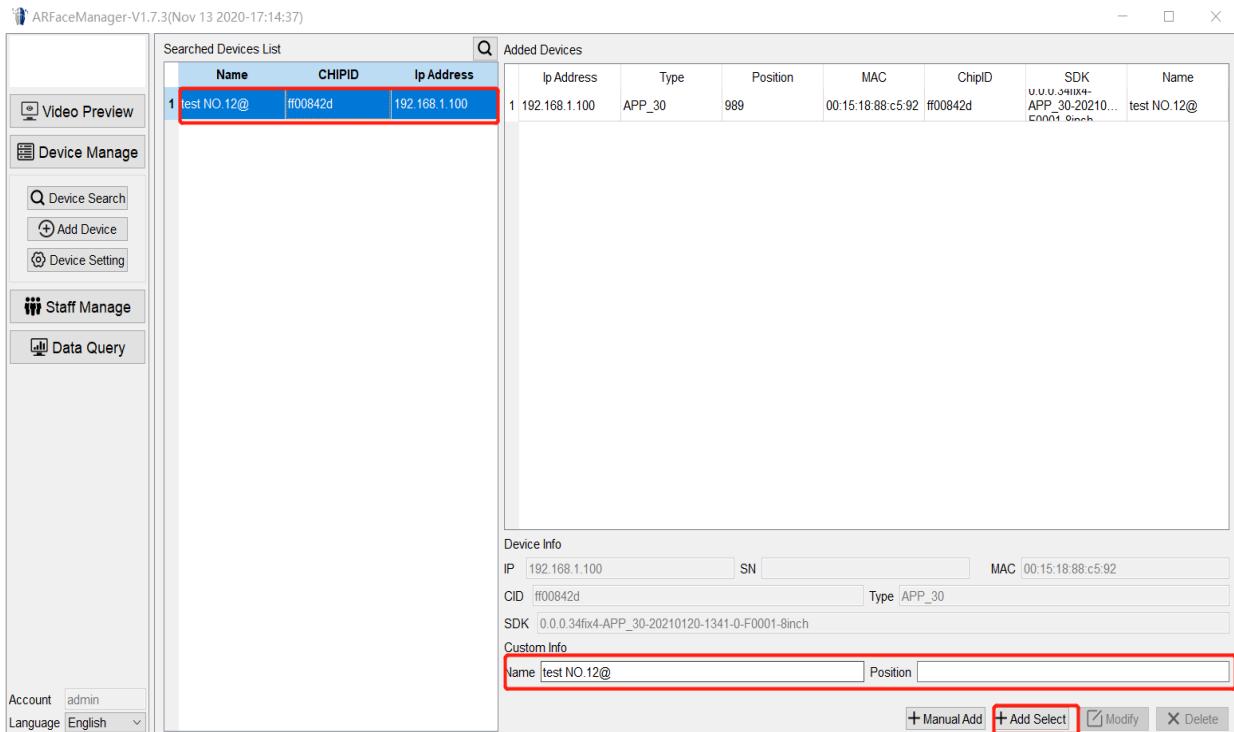
Device Manage→Device Search

- Click 1 “Search” button to search, the searched device will be displayed in the list.
 - Select the device in the list, and then click 2 "IP Settings" button. You can modify the IP of the selected device in the pop-up window.
 - The "Network" in the device list indicates the network type of the device (E.g. 4), ETH indicates wired, and WLAN indicates wireless. When the device has both wired and wireless networks, the wired device is displayed first.



Device Manage→Add Device

Select the camera to be added, fill in the device name (required) and position (required), and click the “Add Select” button.

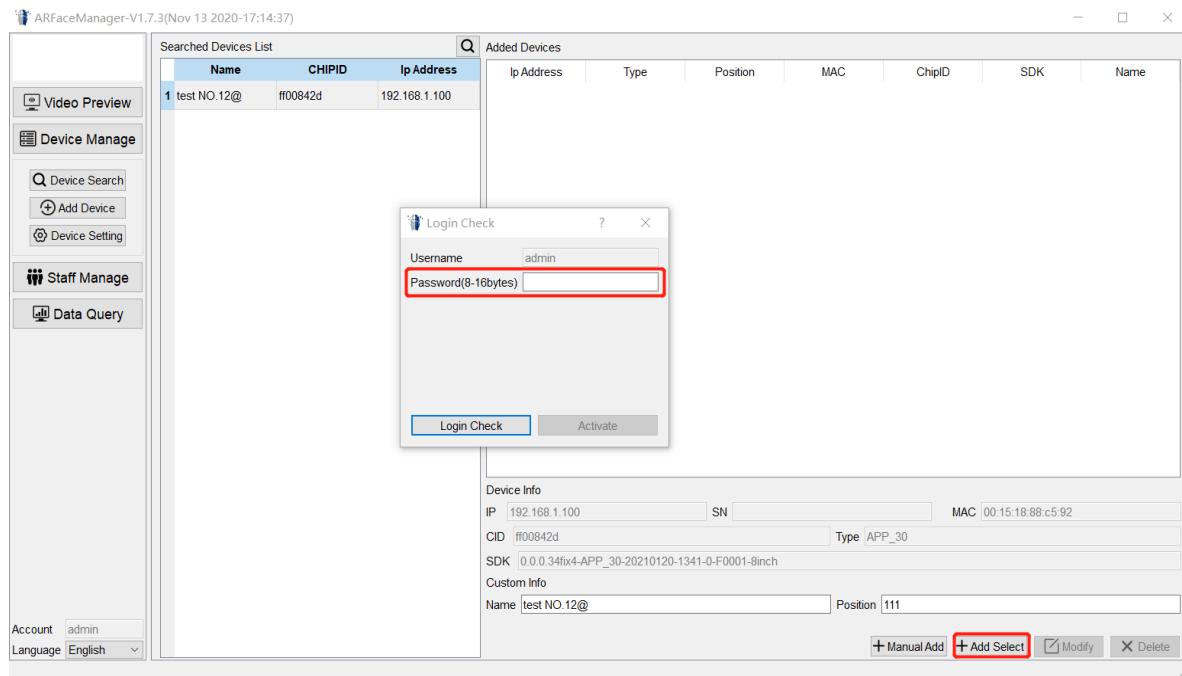


In the verification window that pops up, enter the Web login password of this device, click “modify”, and the addition is successful.

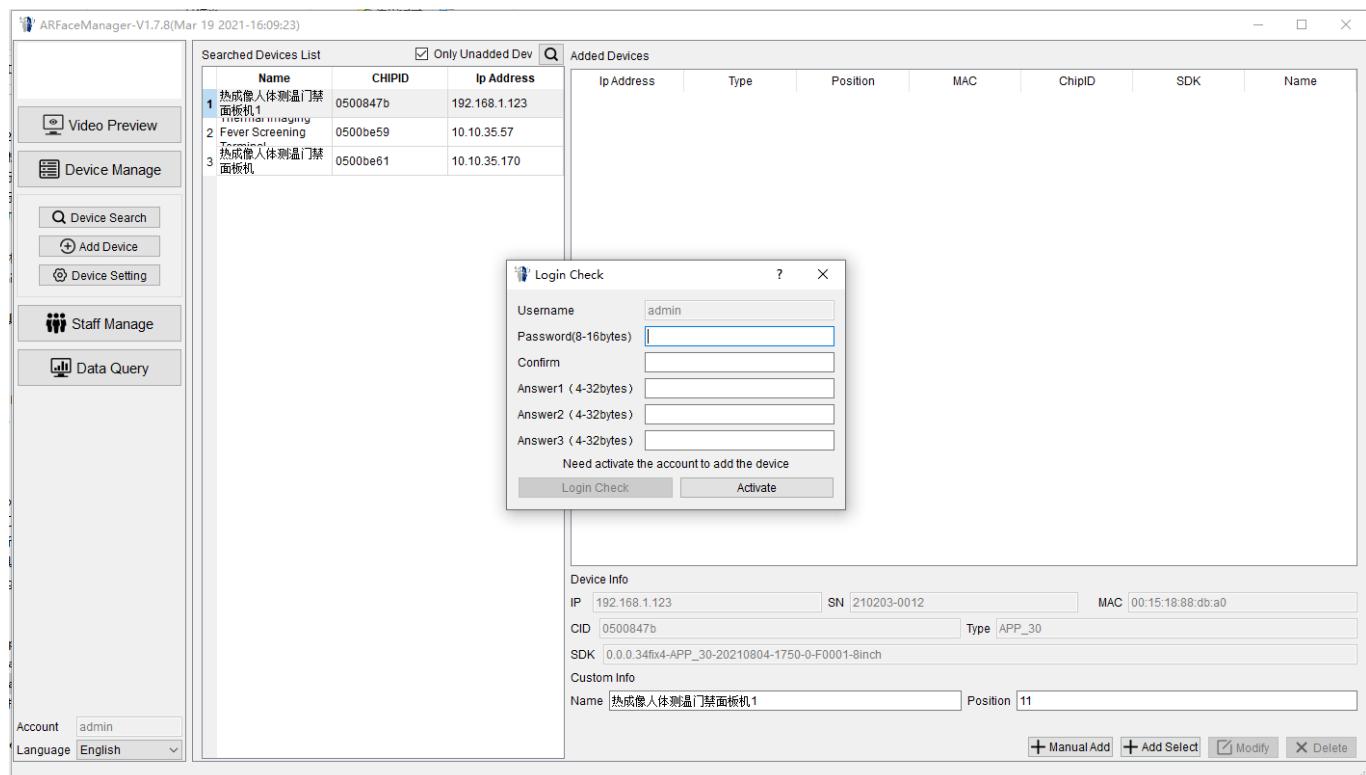
If the device has not set a Web login password, you need to set the Web login password and security answer first, and click “Activate” to complete the addition.

Update added device information

When the device is upgraded or the network information of the device is modified through other means, the search operation is performed.



If the device can be searched again, the information of the device in the "Added Device" database will be updated to the latest.



2.2.2 Camera Settings

Camera settings include system, communication, video and audio, images, and intelligent analysis.

2.2.2.1 System Settings

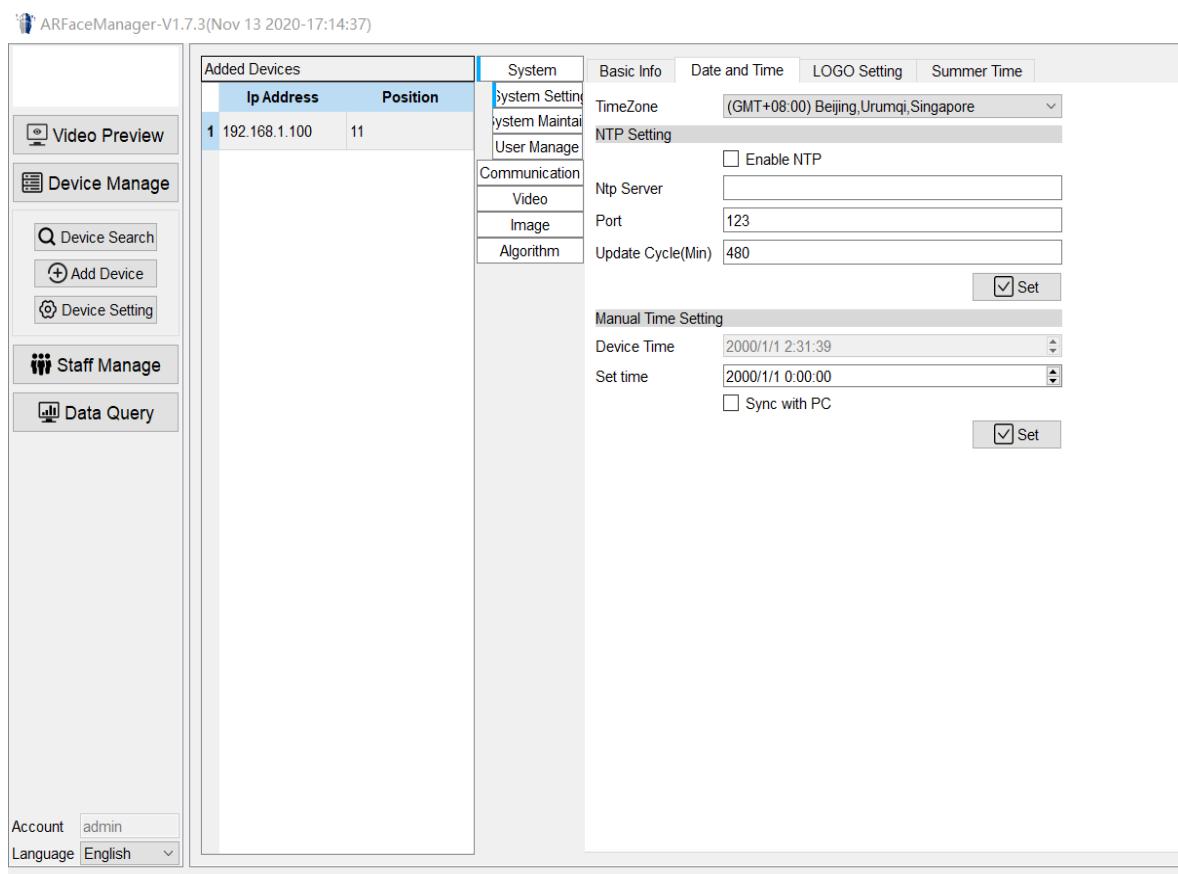
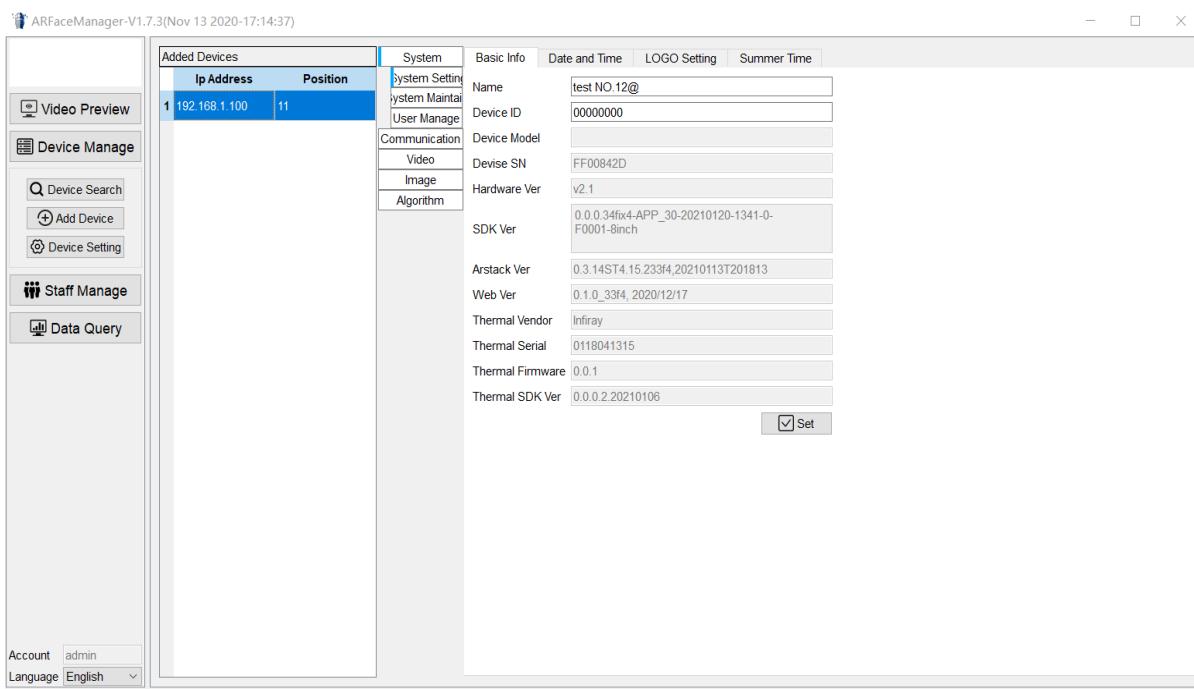
Check the basic information of the device, and the time configuration.

NTP Setting:

1. Configure server IP address and port number, update period and time zone.
2. Tick "Enable NTP".
3. Click "Set", and the parameters will be synchronized to the device.

Manual Time Setting:

1. Manually set the time of the device. After the completion of setting, the device will rely on the RCT circuit for automatic timing.
2. Tick synchronization with computer time, and the device will automatically synchronize the current time and time zone from the computer.
3. Click "Set", and the parameters will be synchronized to the device.



2.2.2.2 Communication

- Wired Lan

Static IP settings:

1. Uncheck "Enable DHCP".
2. Configure IP address, default gateway, subnet mask, and DNS.
3. Click "Set" and the parameters will be synchronized to the device.

DHCP settings:

1. Check "Enable DHCP".
2. (Optional) Fill in "Preferred DNS" and "Backup DNS".
3. Click "Set" and the parameters will be synchronized to the device.

- Wireless Lan

Connect the WiFi

1. Fill in the SSID and password to connect to the wireless network;
2. Select "wireless network card" as network mode;
3. Click "Set" and the device will be connected to the WiFi network.

Set it as a WiFi hotspot

1. Set the SSID and password of WiFi;
2. Select "hotspot mode" as network mode;
3. Set the default gateway, or use the default gateway;
4. Click "Set", and the device will share WiFi hotspots for mobile phones or PCs connection.

PS: using the hot spot mode, the device can be connected with the mobile phone

and other devices point-to-point, and the access control can be managed through the mobile phone and other devices.

● **HTTP**

1. Enter the HTTP and HTTPS ports to set;
2. If you need to update the HTTPS license, check "Upload Certificate" and click the "File Selection" button to select the certificate file;
3. Click "Set" to set the corresponding parameters;

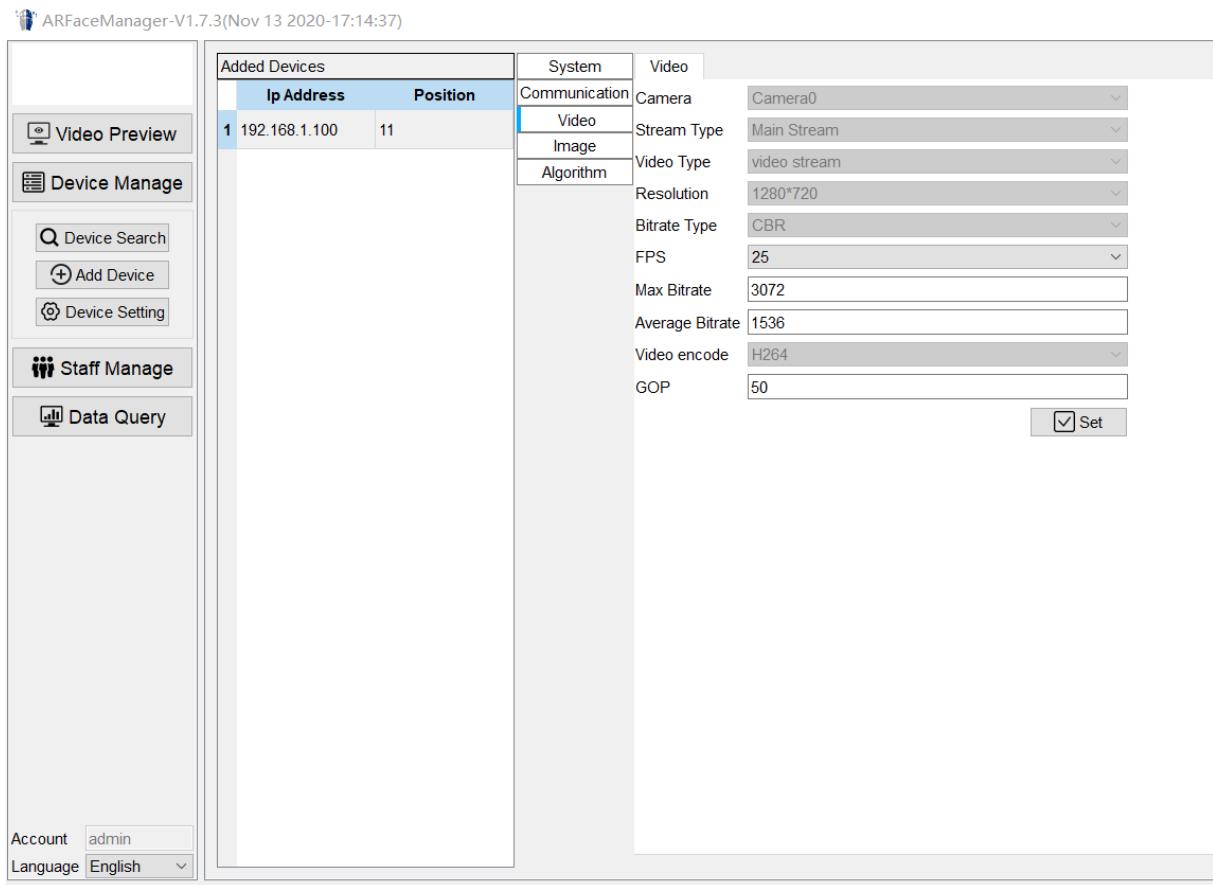
(Note: after modifying the above port, you need to use the modified port to access the Web page normally.)

2.2.2.3 Audio and Video

● **Video**

The video stream parameters of real-time preview can be set, including the resolution, the upper and lower limits of the stream.

PS: fluorescent lamps in different countries have different luminous frequencies, which may cause the display to flicker. This problem can be solved by setting different video frame rates.



2.2.2.4 Image

- **Image Setting**

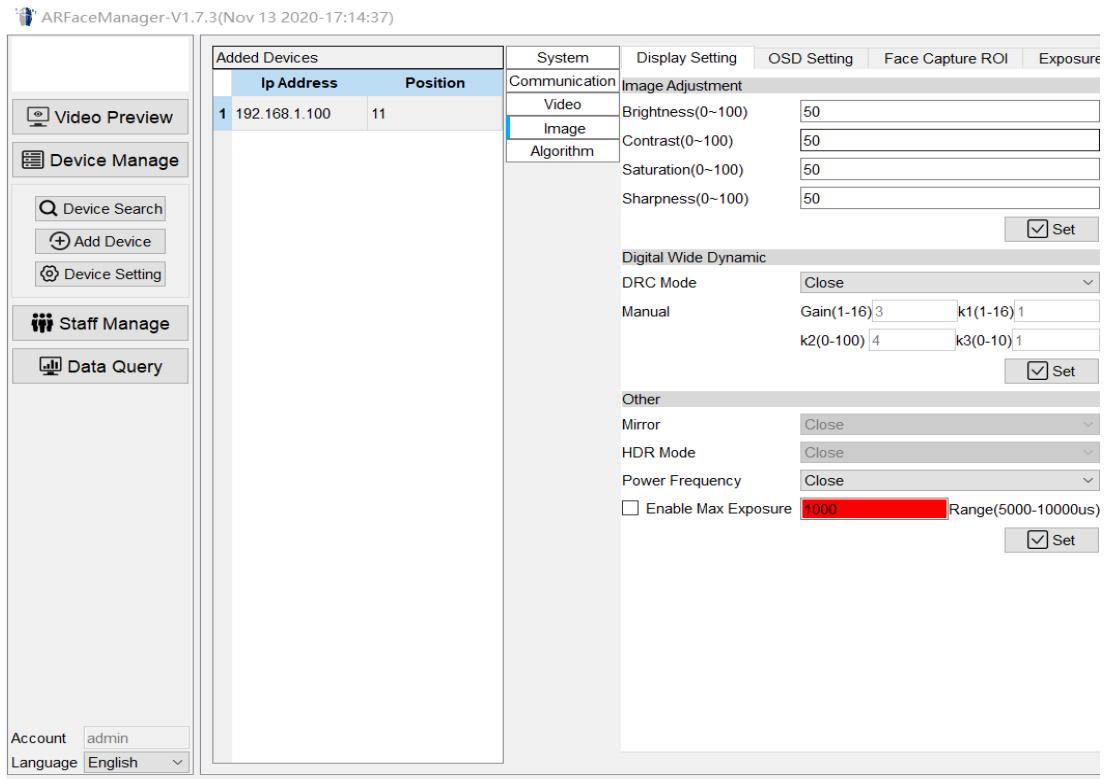
Set display brightness, contrast, saturation, sharpness and other parameters of the device.

- **Digital Wide Dynamic Settings**

It can be set to adaptive, close or manual mode.

- **Other Settings**

Other settings include image mirror, HDR mode, power frequency, and exposure limit.



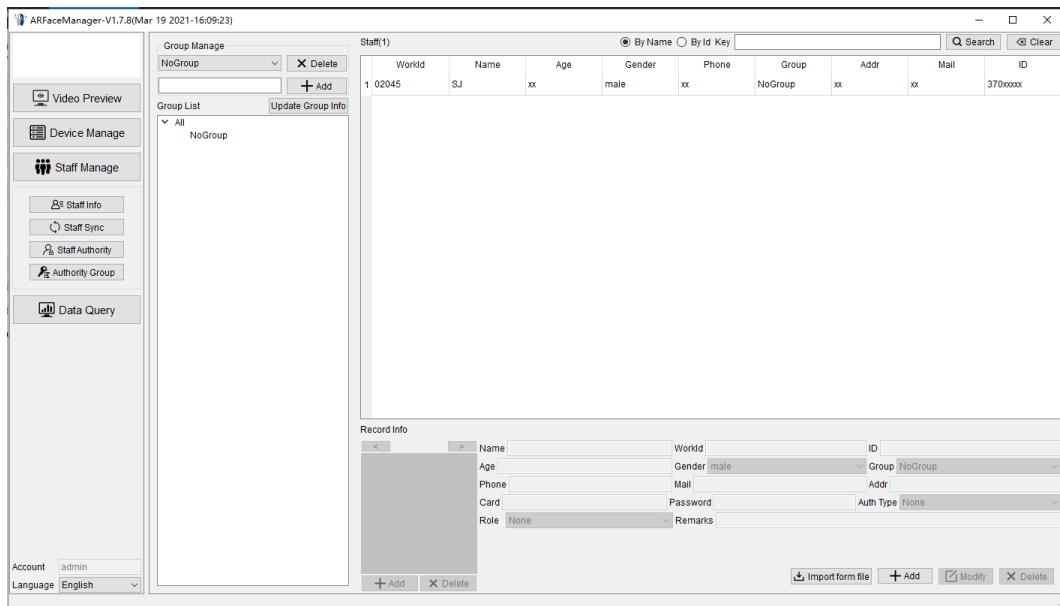
2.2.2.5 Algorithm

Please refer to the algorithm in the web configuration.

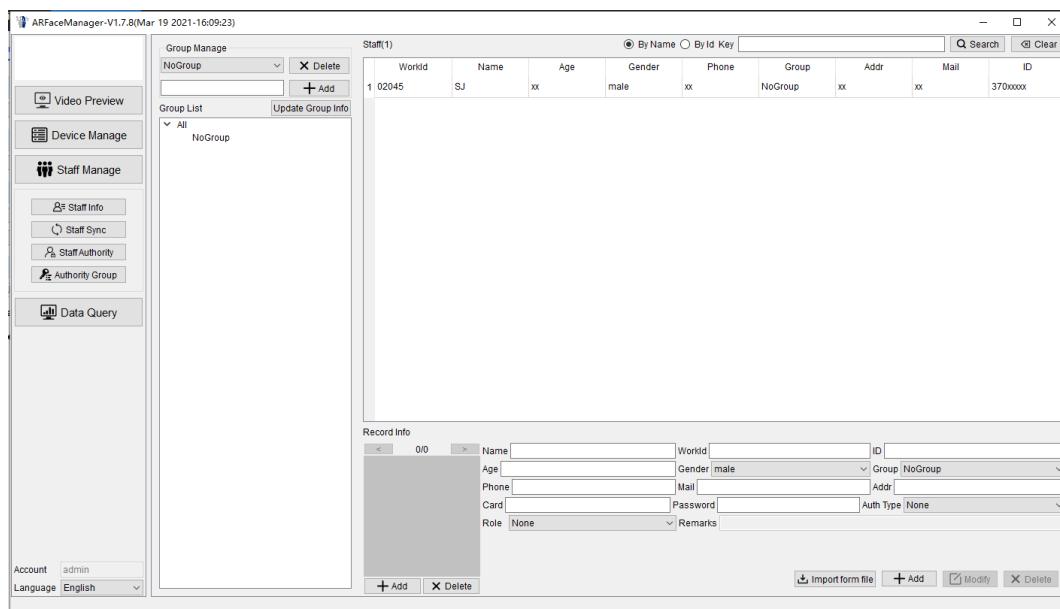
2.3 Staff Management

2.3.1 Add Single Staff

1. Click "Staff Manage" → "Staff Info" on the left side of control panel.



2. Click "Add" button and the staff information becomes available for editing.

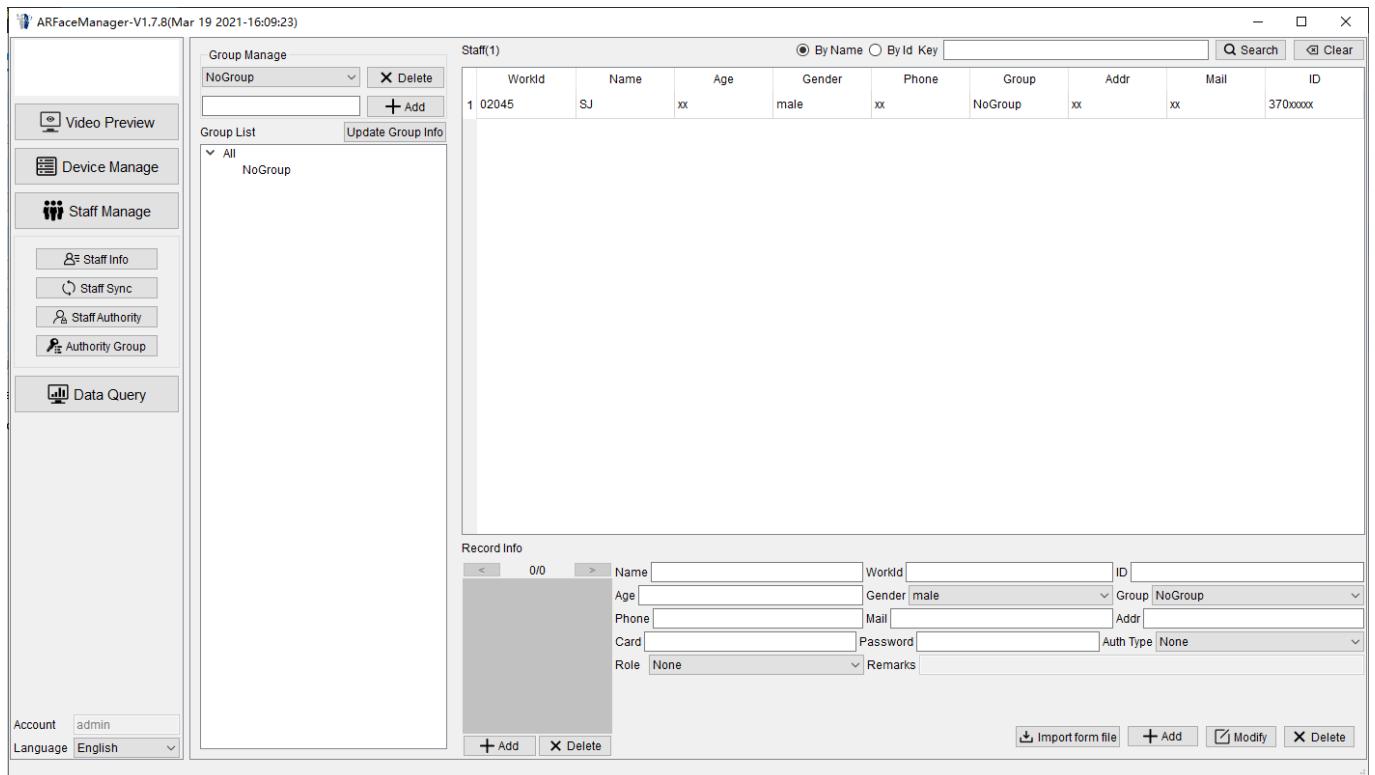


3. Name, employee number (from 1~99999999), certificate, and headshot are required fields. The other fields are optional.

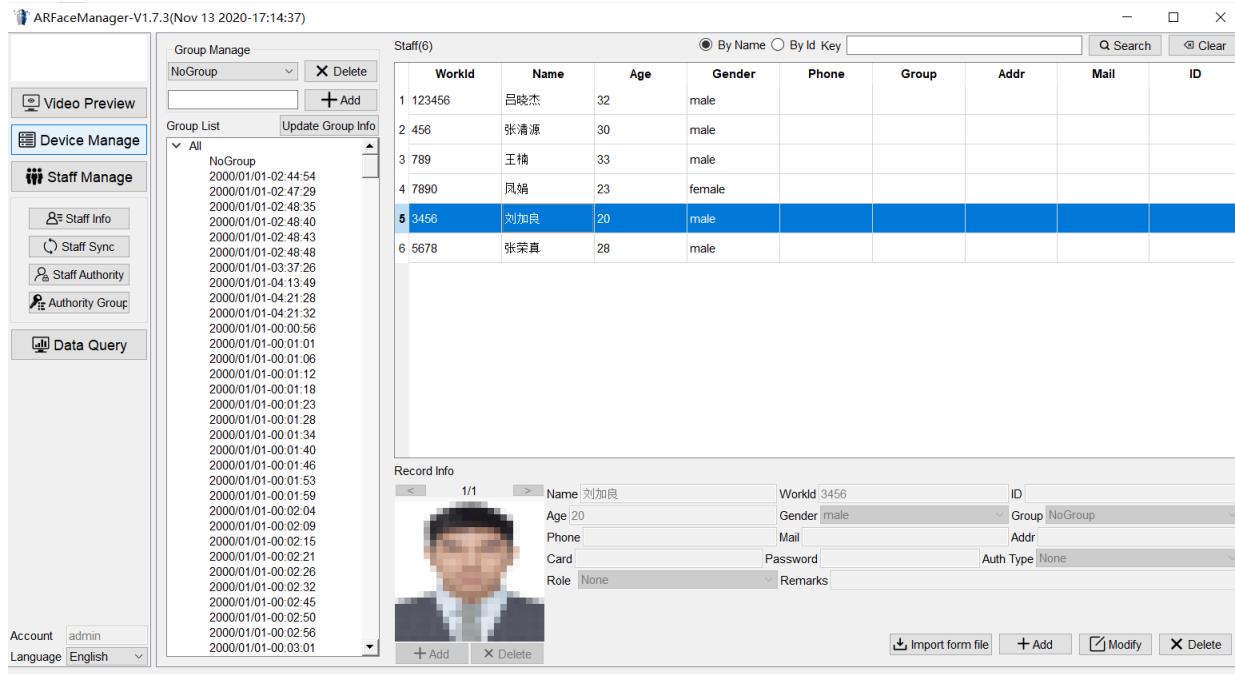
4. Click "Add" and the data will be stored in the client software and local database.

2.3.2 Add Staff from File

1. Click "Staff Manage" → "Staff Info" on the left side of control panel.
2. Click “Import from file” and select a pre-edited Excel document of user information. You can refer to the model document *saff.xlsx* in configuration tools.

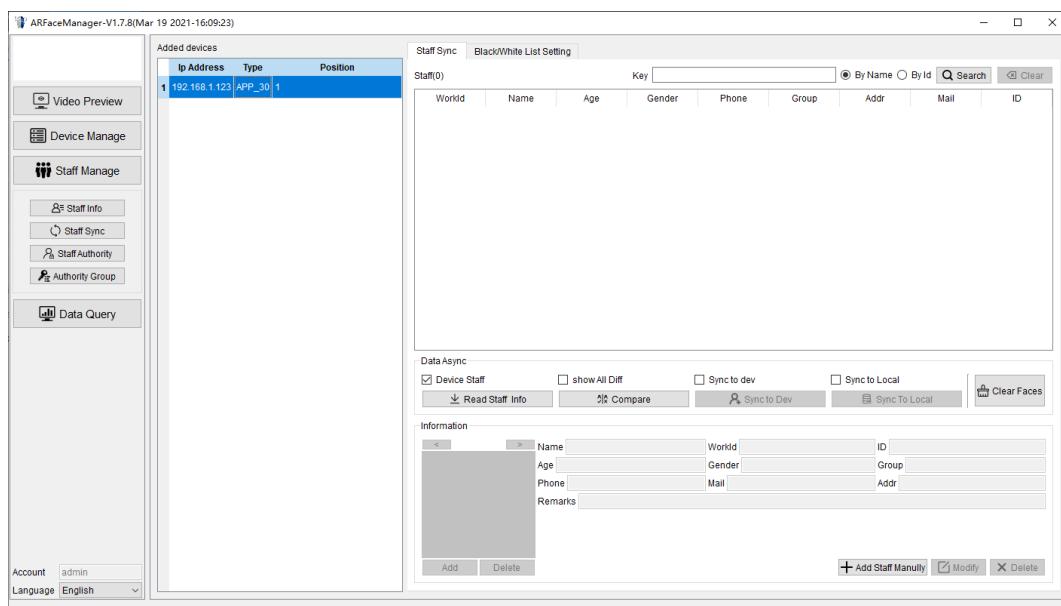


3. Click "Open" and complete the import.



2.3.3 Edit Staff Information

1. Click "Staff Manage" → "Staff Sync" on the left side of control panel.
2. Click "Modify" and the staff sync becomes available for editing.



3. Click "Confirm" after editing. The data will be stored in the local database of the

client.

● Modify Staff Information

1. Click "Staff Manage" → "Staff Sync" on the left side of control panel.

2. Select a staff and click "Modify" button to edit staff information.

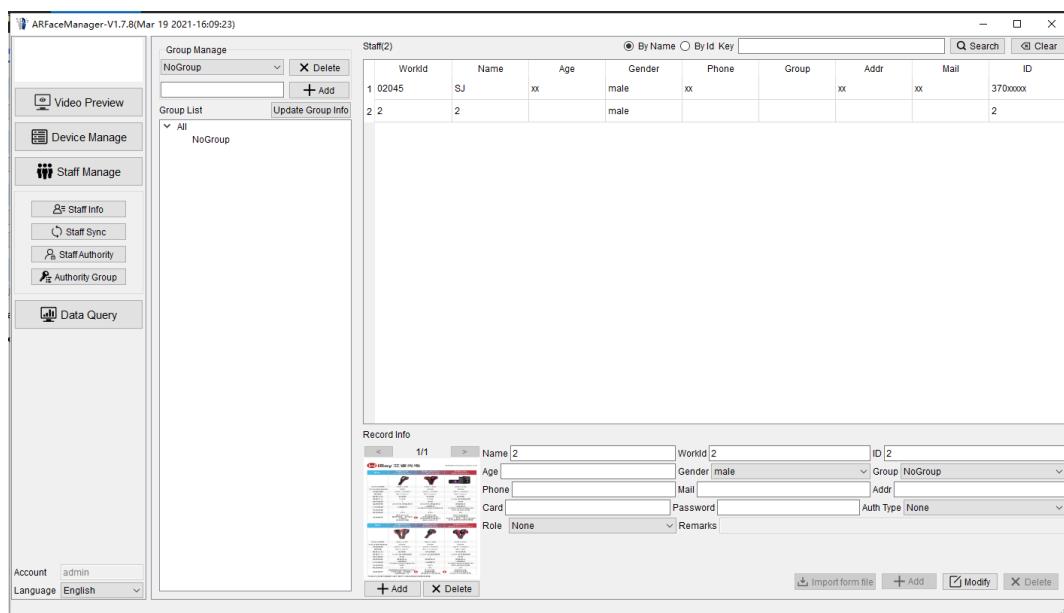
● Add Faces

1. When entering the editable mode, click the "Add/Delete" button below the face picture to add/delete the face picture;

2. You can add up to 3 face pictures, and switch to display different faces through the index button above the face picture;

● Modify groups in batch

1. When a group of persons are selected at the same time, the group information of the currently selected persons can be modified in batches, but other information cannot be modified;



2. After editing, click the "Modify" button again to save the data to the client's local database.

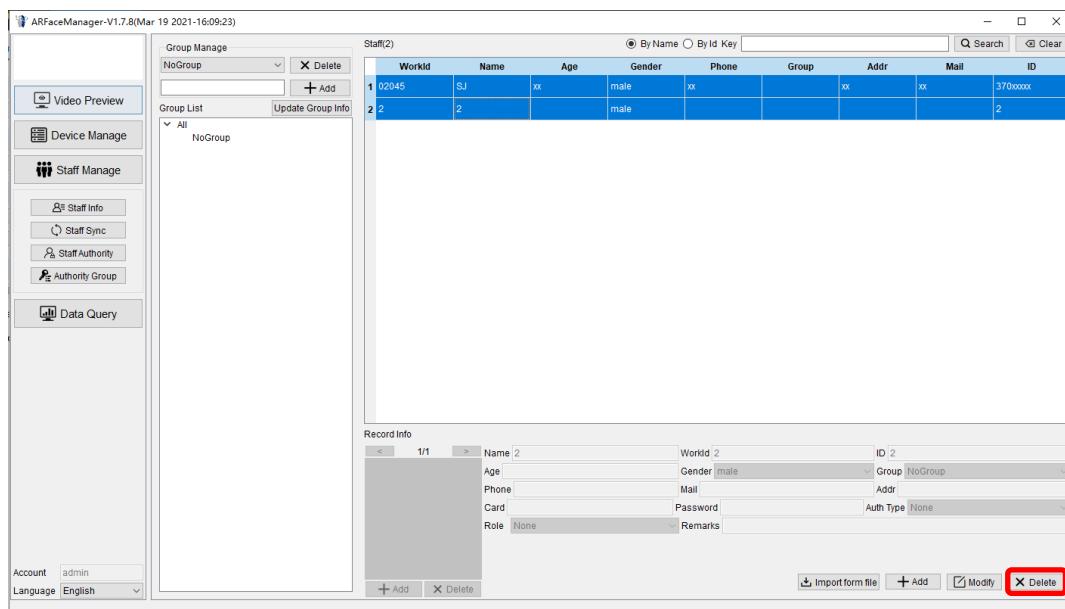
2.3.4 Delete Staff

- Delete staff one by one

1. Select the staff to be deleted;
2. Click "Delete";

- Delete staff in batch

1. Hold down the Ctrl key to select multiple staff or Ctrl+A to select all;
2. Click "Delete";

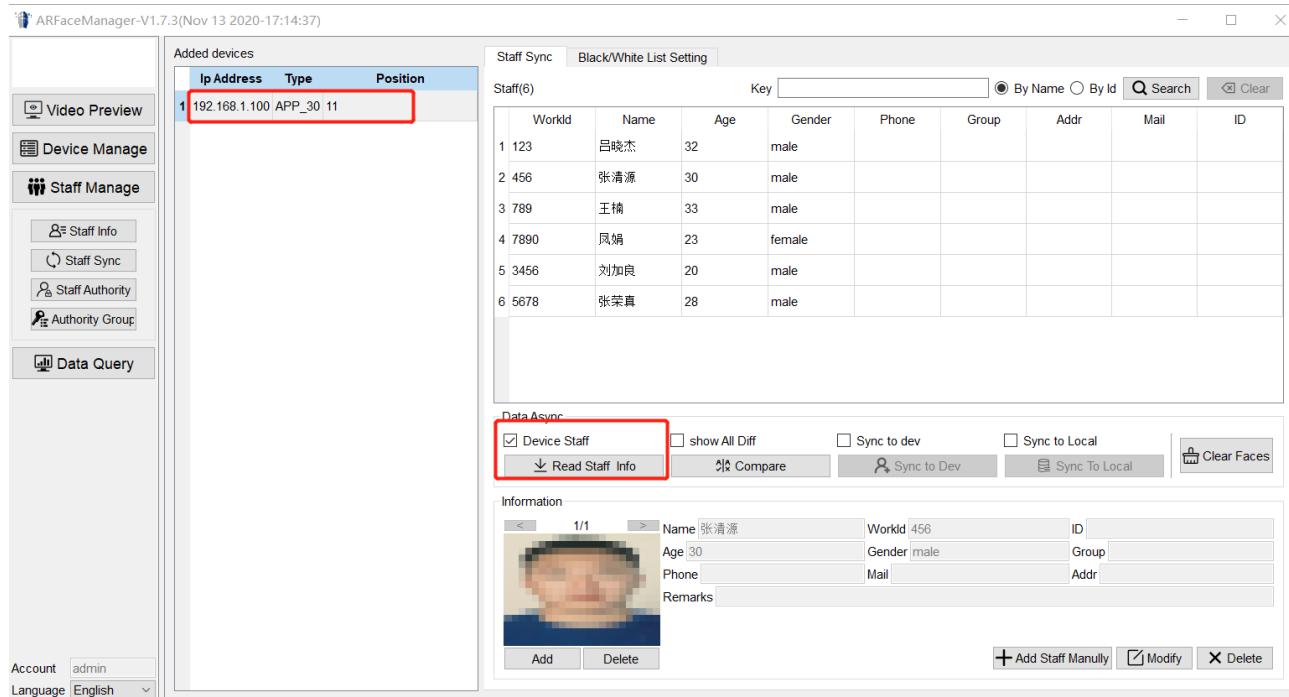


2.3.5 Staff Sync

Staff sync refers to uploading the staff added to the local database to the device.

Click "Staff Manage" → "Staff Sync" on the left side of control panel.

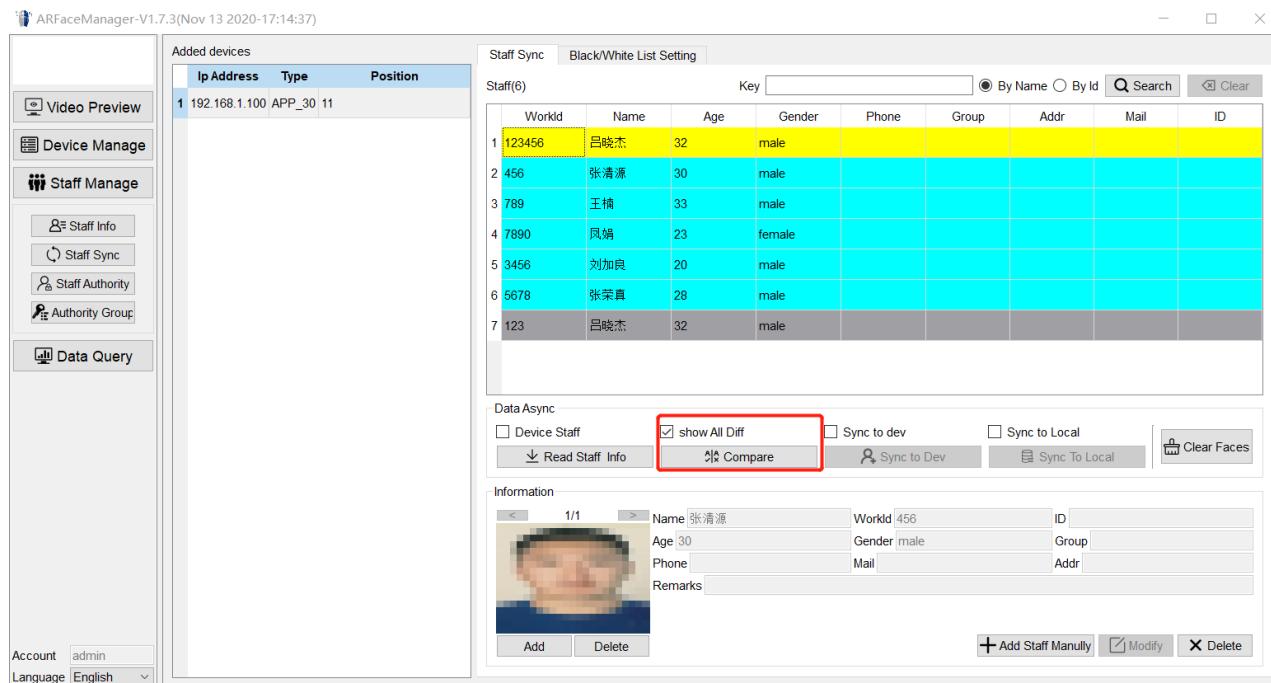
1. Select the device that needs to be synchronized, and click "Read Staff Info" to synchronize the device staff data to the client;



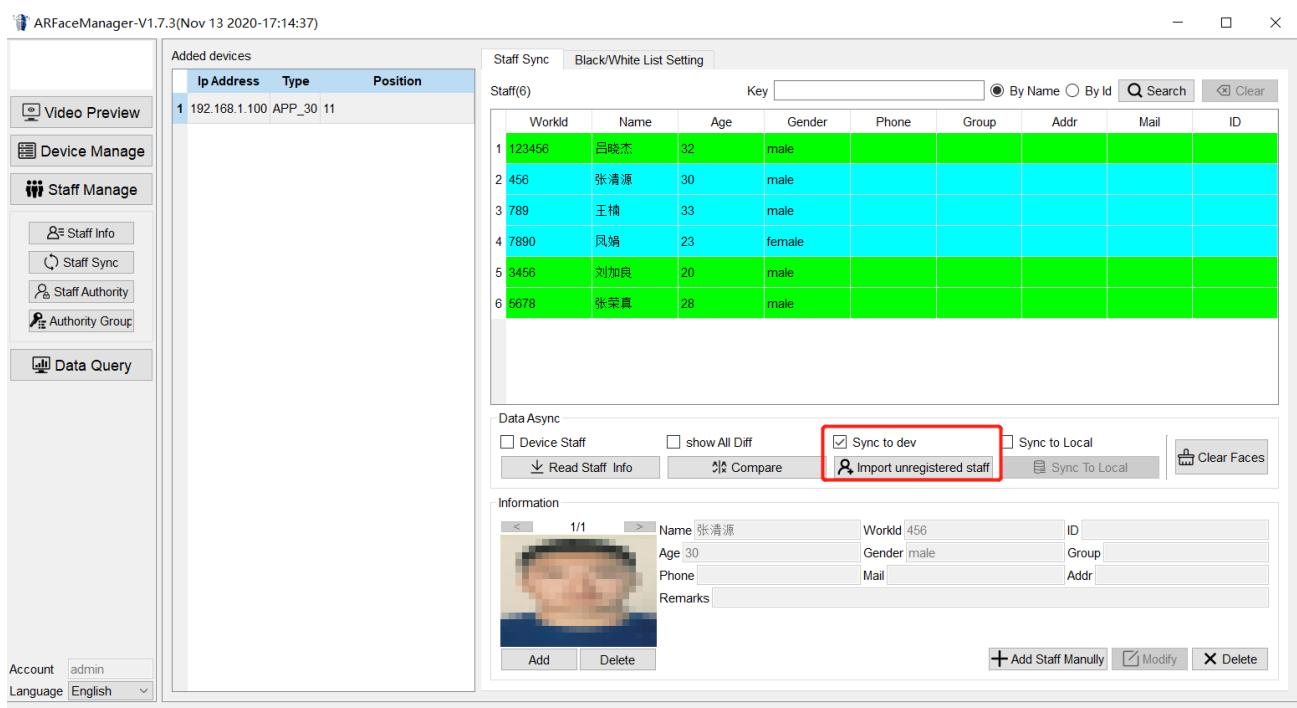
2. Click "Show All Differences", and click "Compare".

Yellow indicates that information is on the local client but not on the device.

Grey indicates that information is on the device but not on the local client.

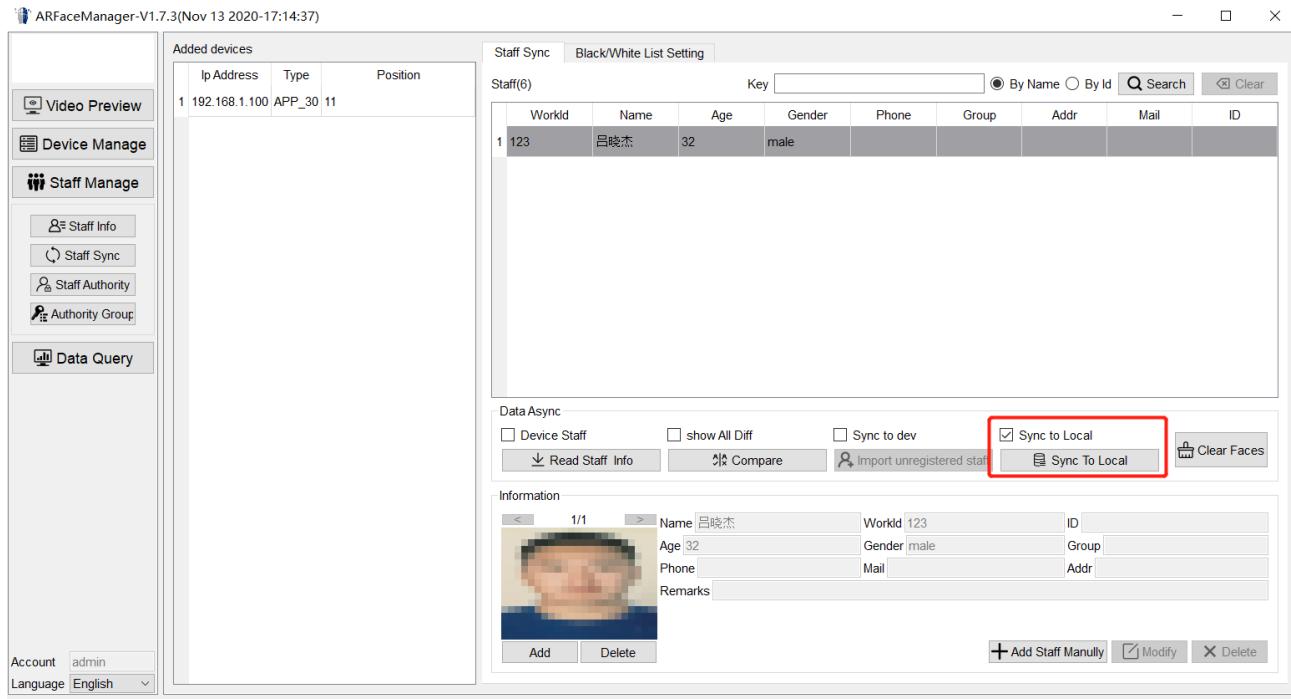


3. Check "Sync to dev", and click "Sync to dev" to import staff from the local client to the device.



4. Click "Sync to local", and click "Sync to local" to import data from the device to

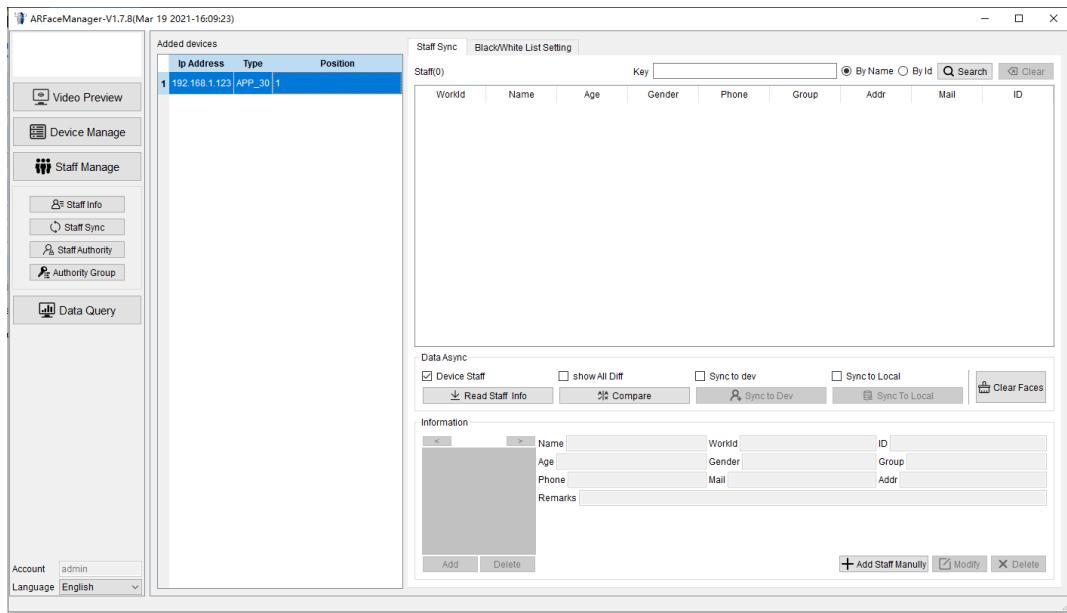
the local database.



2.3.6 Clear Staff Information in Device

Click "Staff Manage" → "Staff Sync" on the left side of control panel.

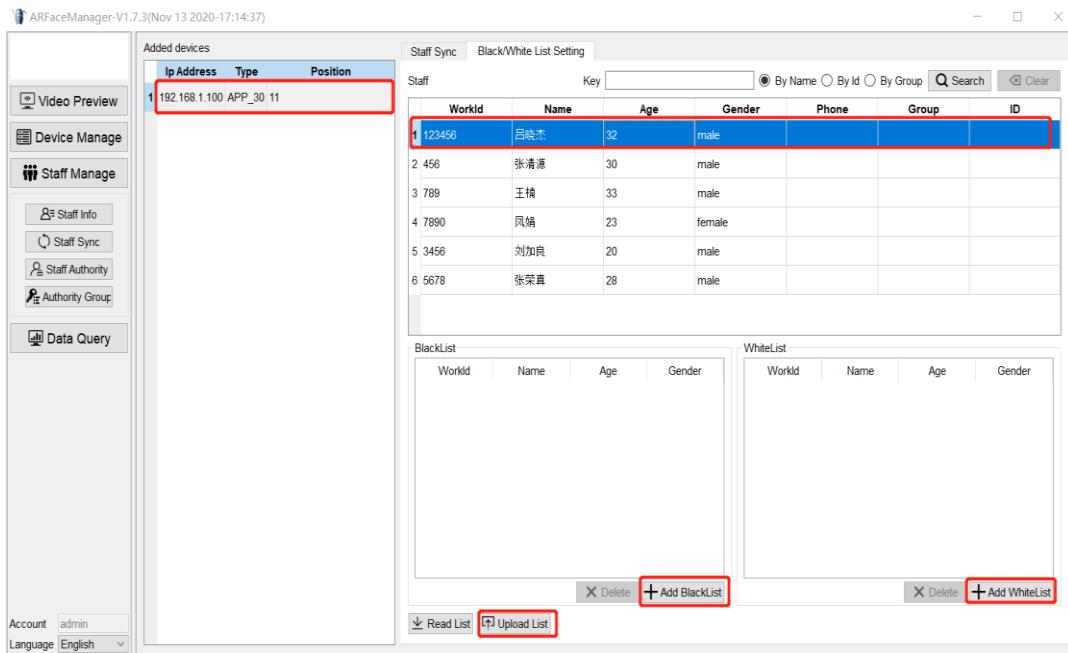
1. Click “Clear Faces” and click “Read Staff Information” to check whether all information is cleared.



2.3.7 Blacklist and Whitelist Setting

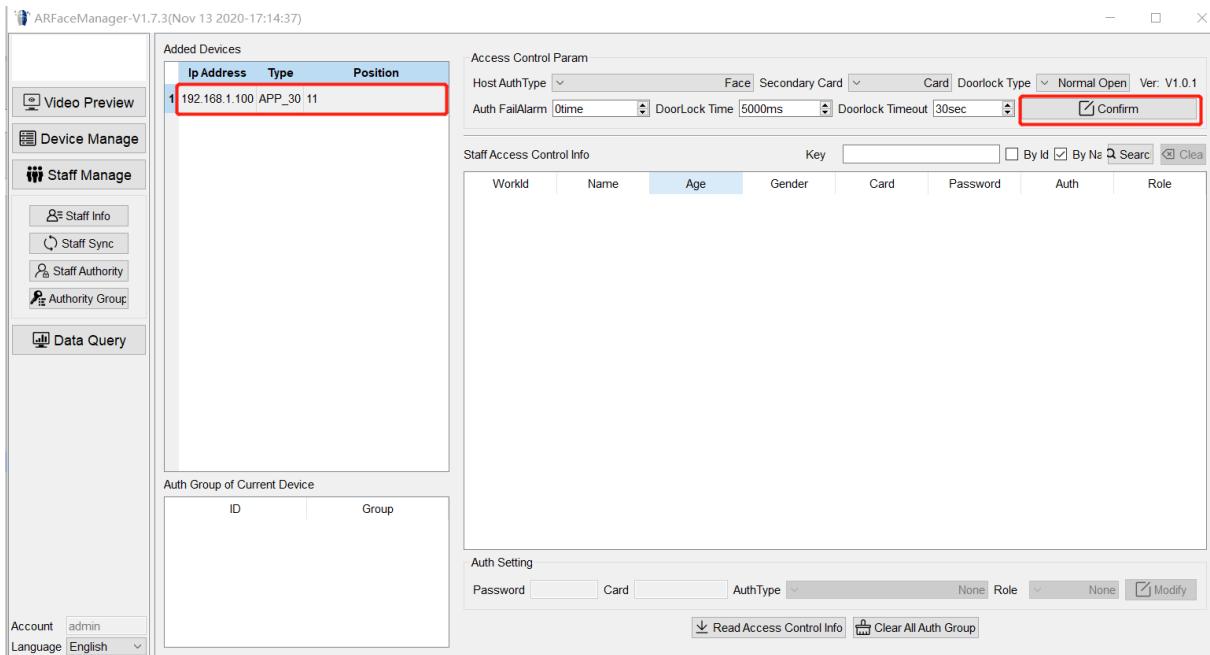
Click "Staff Manage" → "Staff Sync"→"Blackwhite list setting" on the left side of control panel.

1. Select devices for synchronization.
2. Select the staff to add to the blacklist or whitelist.
3. Click "Add to Blacklist/Whitelist".
4. Click "Upload List" to upload the blacklist and whitelist to devices.



2.3.8 Device Access Control Parameters

Click "Staff Manage" → "Staff Authority" on the left side of control panel.



1. Click "Change Parameters".
2. "Host Auth Type", "Secondary Card", "Doorlock Time", "Doorlock Timeout" are

subject to change.

3. Click "Confirm" and the parameters will be synchronized to the device.

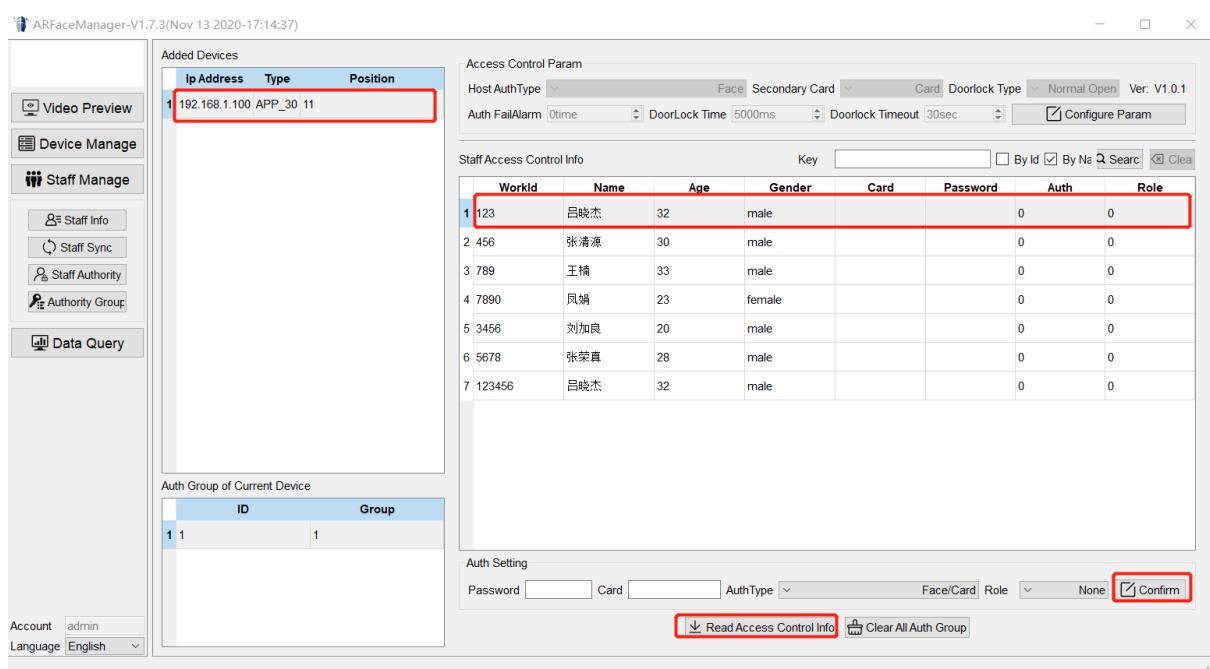
Access Control Parameters	Parameters Description
<p>Host authentication methods: it configures the authentication method of the device. Select Face is the default setting. Only face or face + card swiping is supported.</p>	
<p>Secondary card authentication: set up for connection to an external card reader. The types of authentication are the same as those of the device.</p>	<p>Only card-swiping and password are supported. Card swiping is the default setting.</p>
<p>Magnetic door switch options: None: no door magnetic switch is used. Normally open: the door is open under normal conditions (always open when the power is on). Normally closed: the door is closed under normal conditions (always closed when the power is on).</p>	<p>0 - none 1 - normally open 2 - normally closed (default)</p>
<p>Time for door locking: the duration of time from opening to automatic locking when the door is closed.</p>	<p>1 ~ 255 seconds. 5 seconds by default.</p>
<p>Door open timeout alarm: when the magnetic state of the door is inconsistent with the settings, an alarm signal will be issued after a specified period of time. This period of time is the magnetic alarm delay (effective range from 1 to 999 seconds).</p>	<p>1 ~ 255 seconds. 30 seconds by default.</p>
<p>Authentication alarm: when the number of failed verifications (that is, the number of wrong presses) reaches the set value (can be set to 1-9 times), an alarm signal will be issued.</p>	<p>0 ~ 9. 0 by default, meaning that no alarm.</p>

2.3.9 Staff Access Control Information

Click "Staff Manage" → "Staff Authority" on the left side of control panel.

1. Click "Read Access Control Information".
2. Select the staff to be edited.
3. Click "Configure Param" to change the password, card number, authentication method (**currently, only facial and face with card authentication is supported**), or role of the personnel.

4. Click "Confirm" and the parameters will be synchronized to the device.

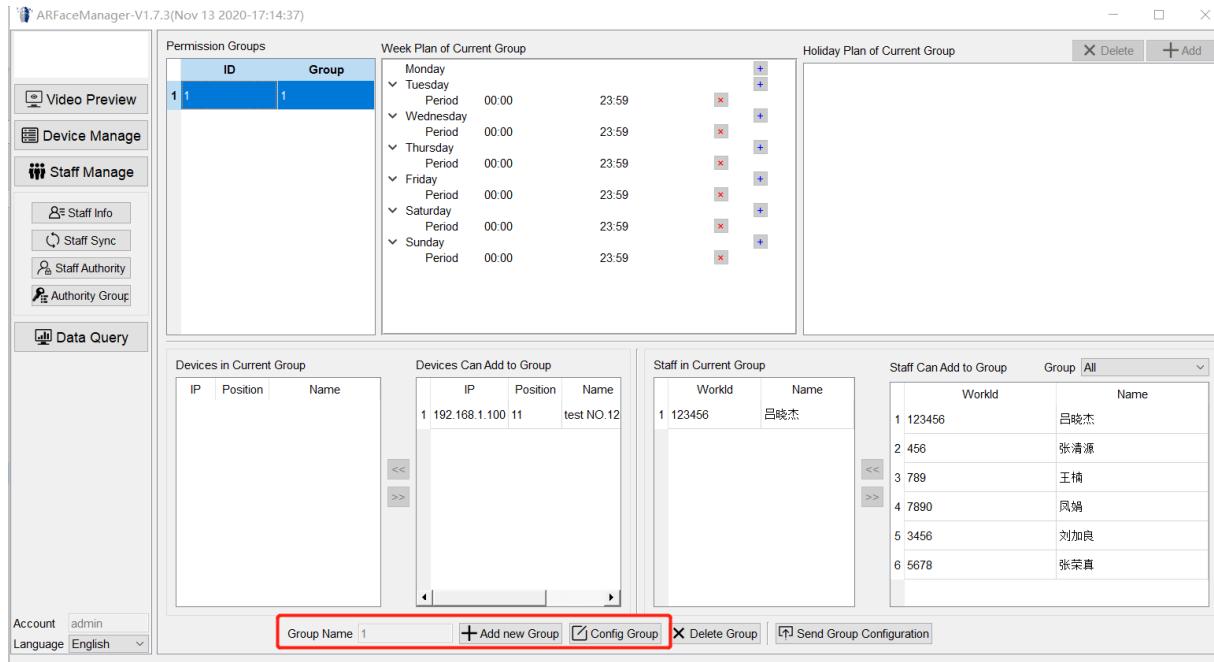


Note: the default authentication method is host authentication. When a user sets up a private authentication method, the device will use the user-personalized method.

2.3.10 Add Permission Groups

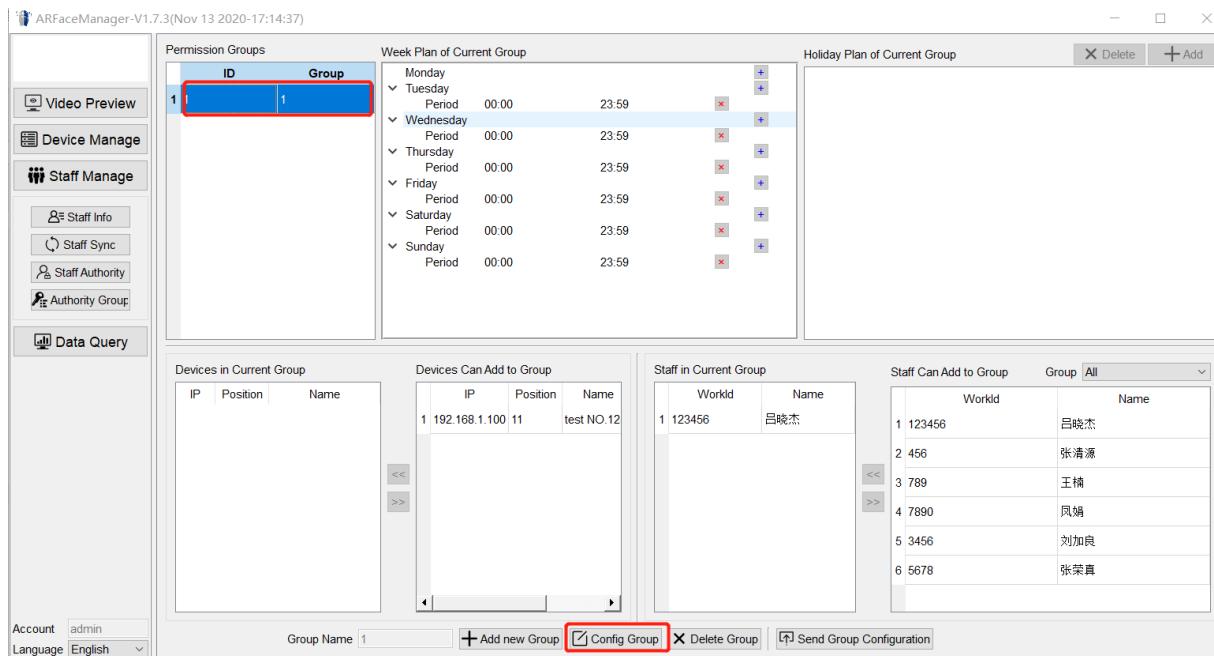
Click "Staff Manage" → "Authority Group" on the left side of control panel.

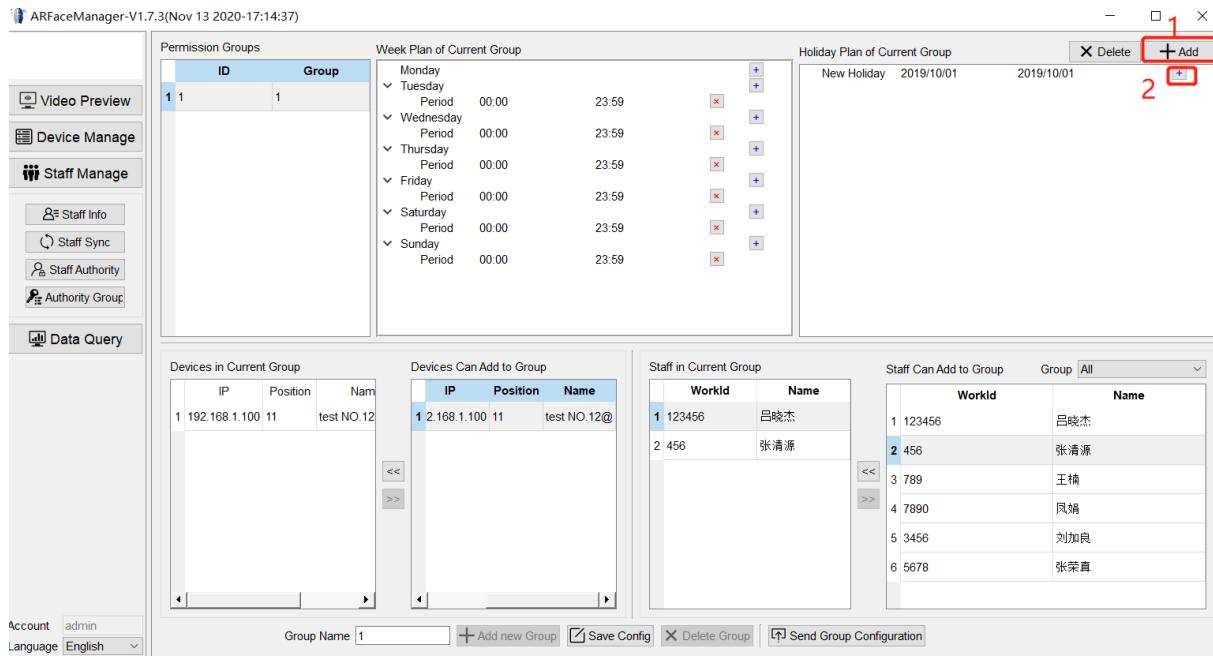
1. Click "Add new group";



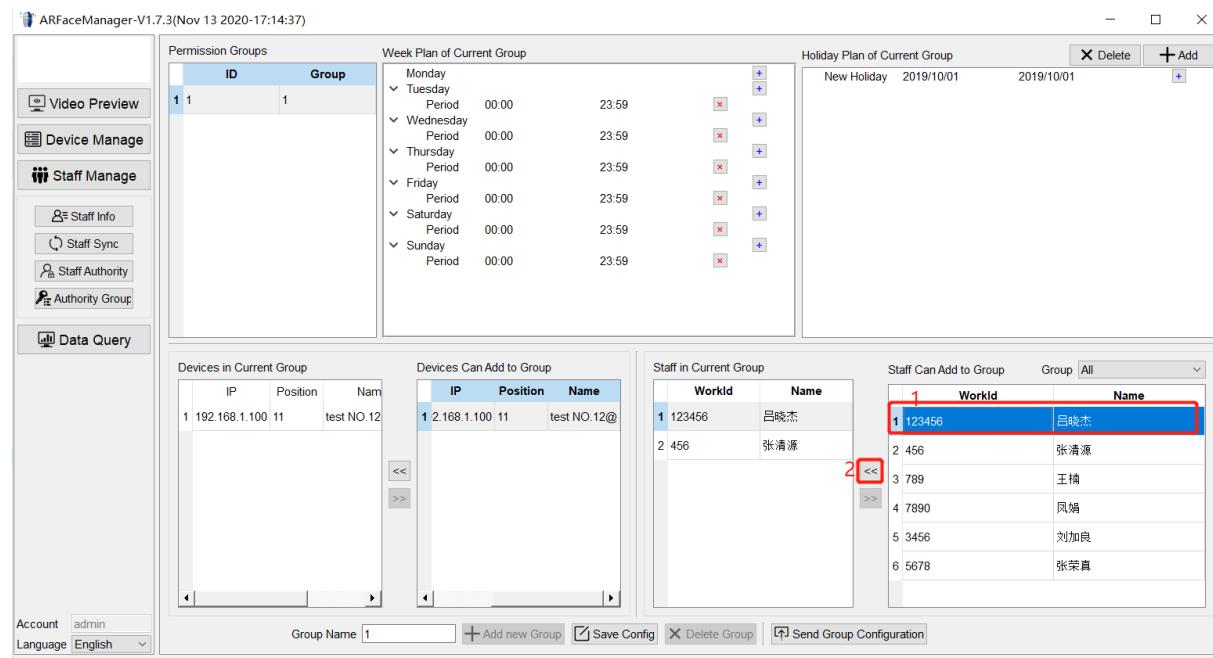
2. Fill in "Group Name" and then click "Confirm";

3. Click "Config Group" to edit the group;

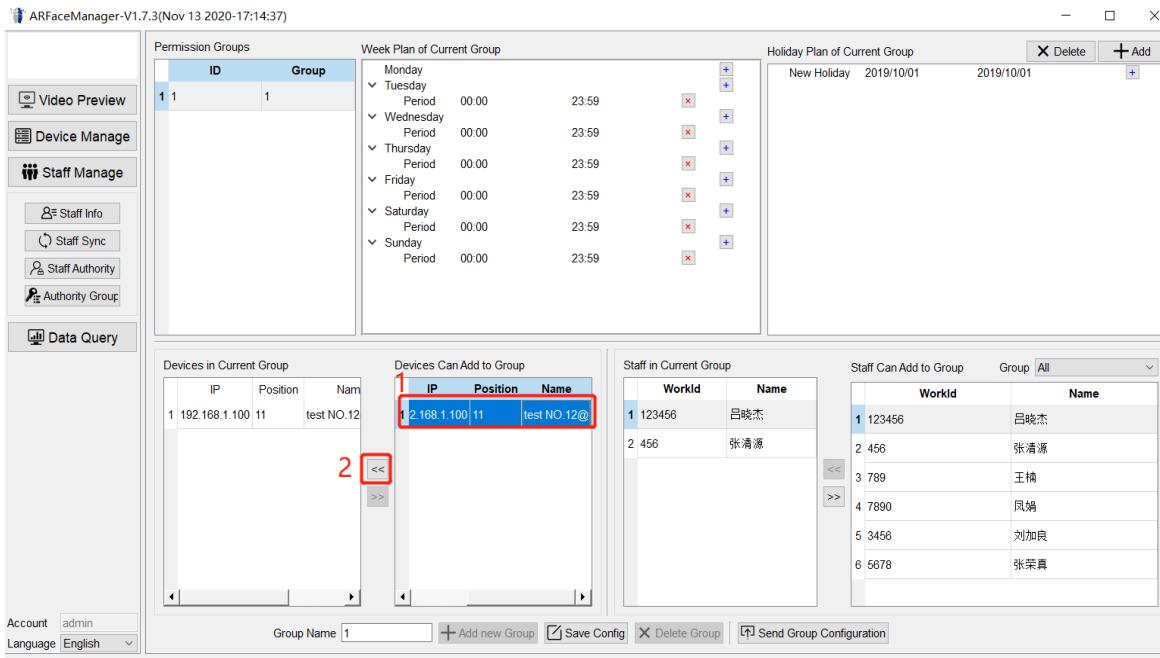




6. Associate the staff. Select the staff to be associated in the "Staff Can Add to Group", click "《" button, and add them to the "Staff in Current Group" list;



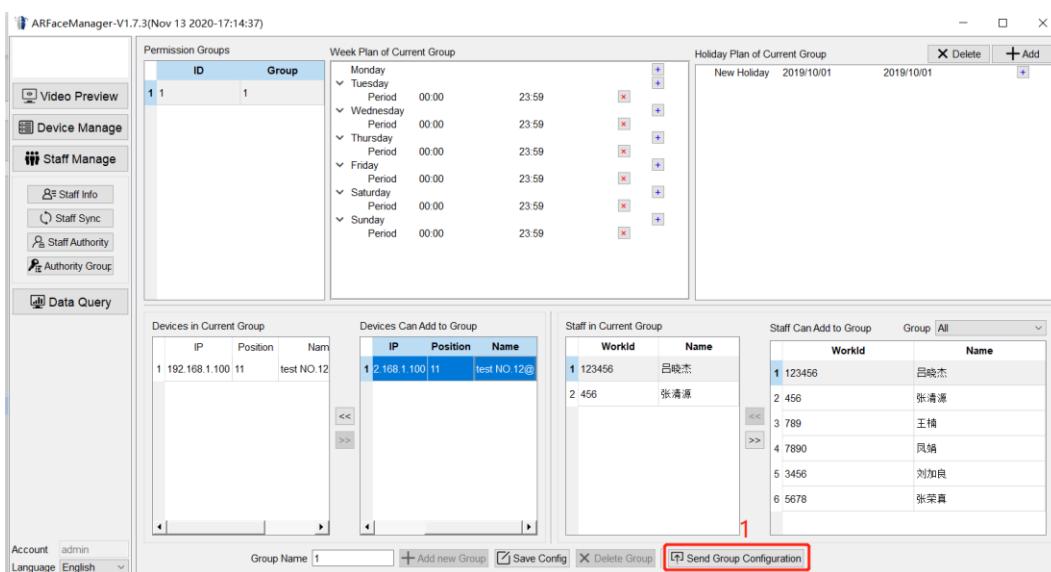
7. Associate the device. Select the device to be associated in the "Device Can Add to Group", click "《" button, and add it to the "Staff in Current Group" list;



8. Click "Save Config", and the permission group configuration is saved to the local database of the client software.

2.3.11 Send Permission Configuration

1. Click "Send Group Config" to synchronize the permission group configuration to the device.



3. Data Query

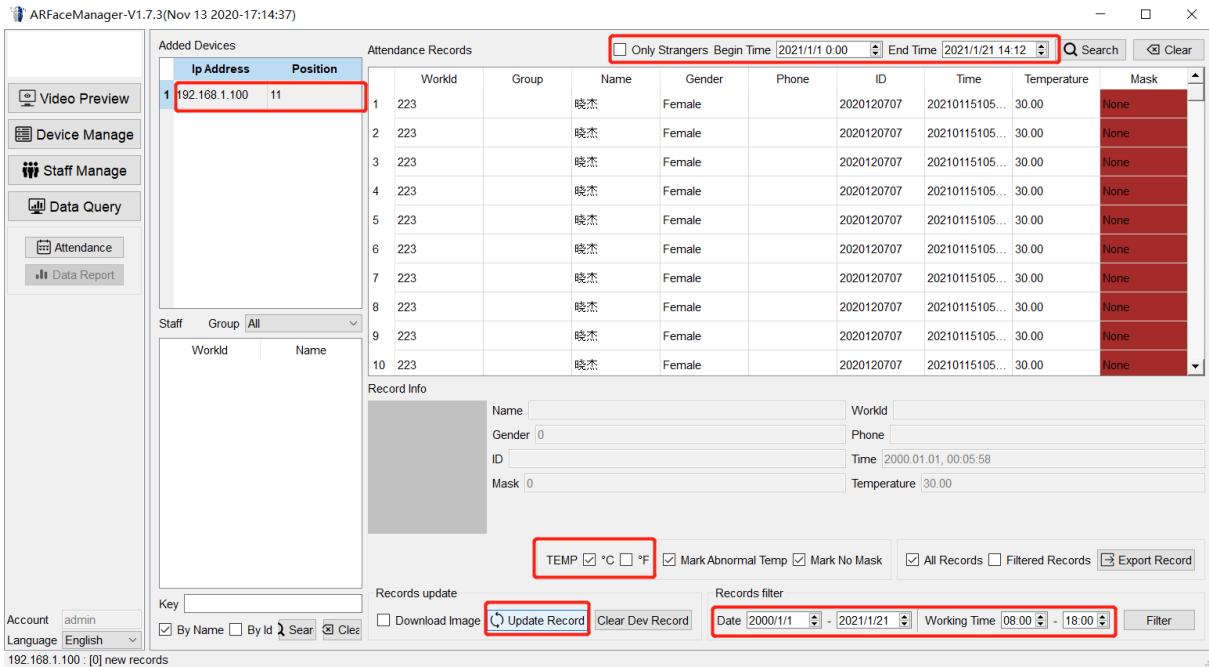
3.1 Update Attendance Records

Click "Attendance Records" → "Data Query" on the left side of control panel.

1. Select device and click “Update Record”. The client will automatically download the latest record from the device. The update progress of the attendance record will be displayed in the lower left corner of the window.
2. Search attendance records for a specified time period by setting start and end time.
3. By specifying the attendance time period, the records of personnel being late, leaving early, absent from work, etc. can be filtered.
4. The temperature unit shown in the attendance record can be set through the temperature display.
5. Check the "Download Image" button and the snapshot image will be exported to the SNAPSHOT folder in the IP named folder of the device.

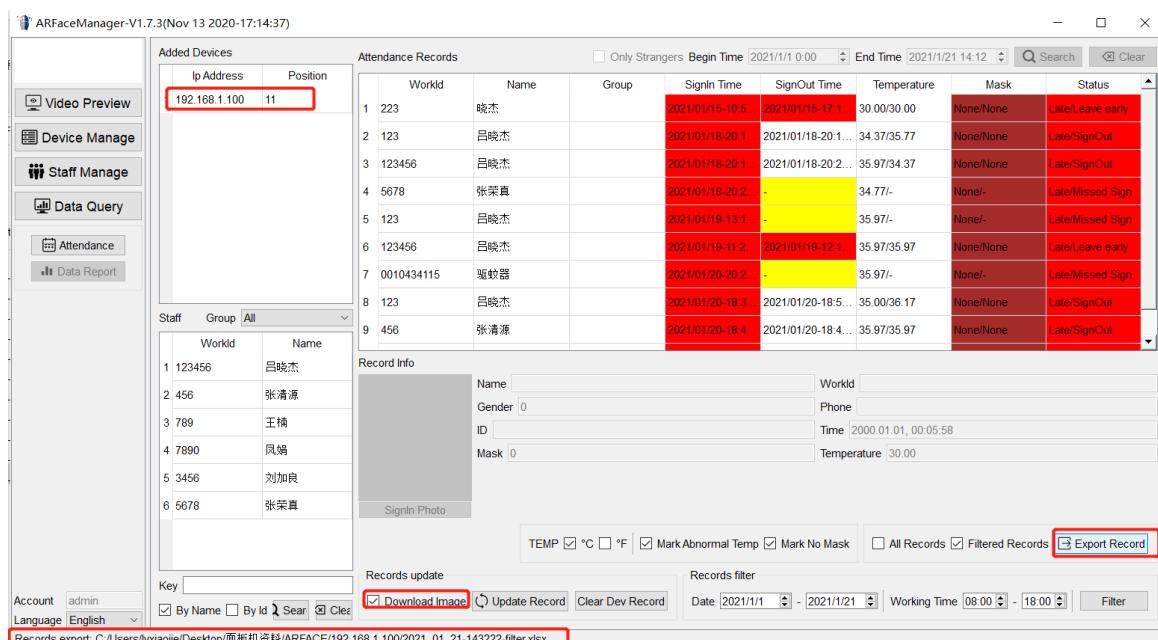
NOTE: If the attendance records cannot be updated, please check whether the settings for saving attendance records are turned on (Algorithm configuration -- General Settings).

NOTE: If you cannot synchronize to the image, make sure that the "Save snapshot Settings in Video Preview - Live Preview "are turned on.

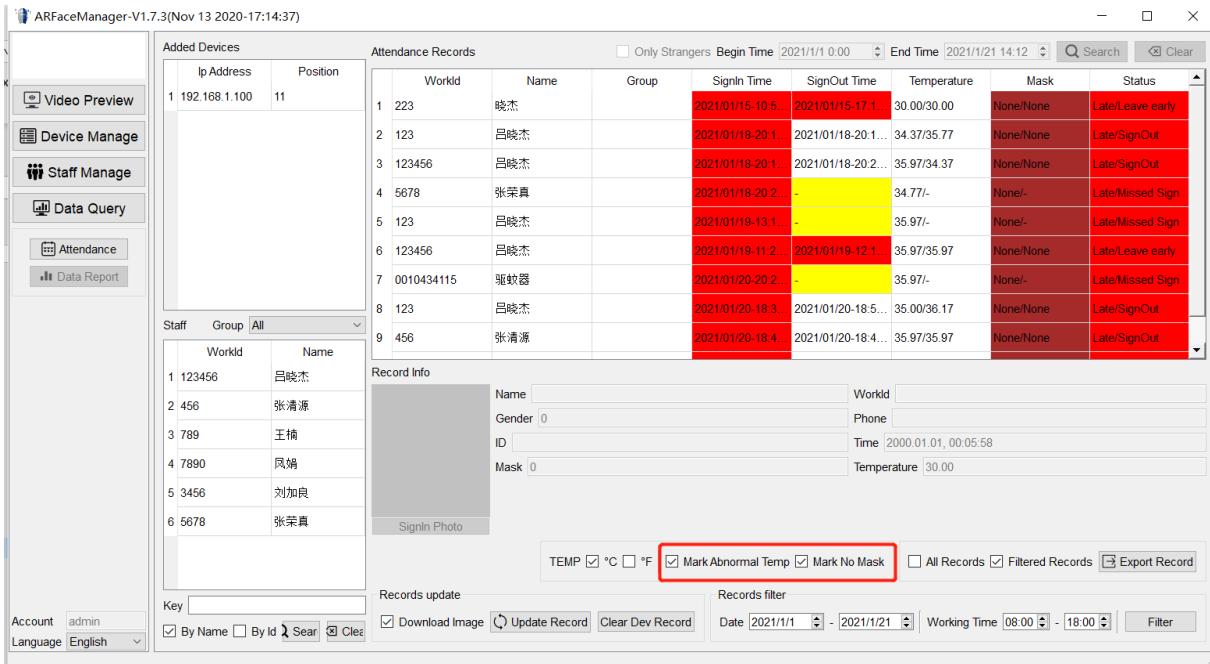


3.2 Export Attendance Records

1. Click "Export Record" and the client will export the data to an excel document, and the status bar will show the saved path of the file. (By default, it is saved in the folder named after the IP of this device in client installation directory).



3.3 Mark Exception Records



1. Mark No Masks and Abnormal Temperature

Check "Mark Abnormal Temperature". When the recorded temperature is higher than 37.3°C, the recorded temperature field will be marked with the background color.

Check "No Mask". When the recorded information is no mask, the recorded mask field will be marked with the background color.

2. Mark Abnormal Attendance Records

In the filter interface, background color marks will be carried out for the corresponding fields of records such as late arrival, early departure and missed attendance.

3.4 Clear Attendance Records

Click "Clear Device Record" to clear all the record of attendance identification saved

in the device.

NOTE: The client can also check the attendance record that was previously kept locally. If you want to delete locally saved attendance records, delete the folder named after the device IP after exiting the client.

NOTE: This device can keep about 30,000 attendance identification records, and the oldest 1000 records will be deleted when the memory is insufficient to store the new records.

