



Product Line connection

一、Product Introduction

1、System topology



2、Camera function Introduction

Camera tail cable port: Power DC, RJ45 cable network port, audio output RCA port, and open-door relay output port Camera support can be installed against the wall, telescopic support lifting, etc., with a height of about 2.5 meters, try to keep a 15-degree overlooking Angle with the position where the face appears (the best head-up effect), the camera should avoid being installed in the position of direct light and reflection, consider the filling light effect of night vision scene, avoid nearby objects blocking reflection, simulation scene debugging is recommended before fixed installation. Select the best mounting Angle to secure the device.

Introduction of basic product parameters

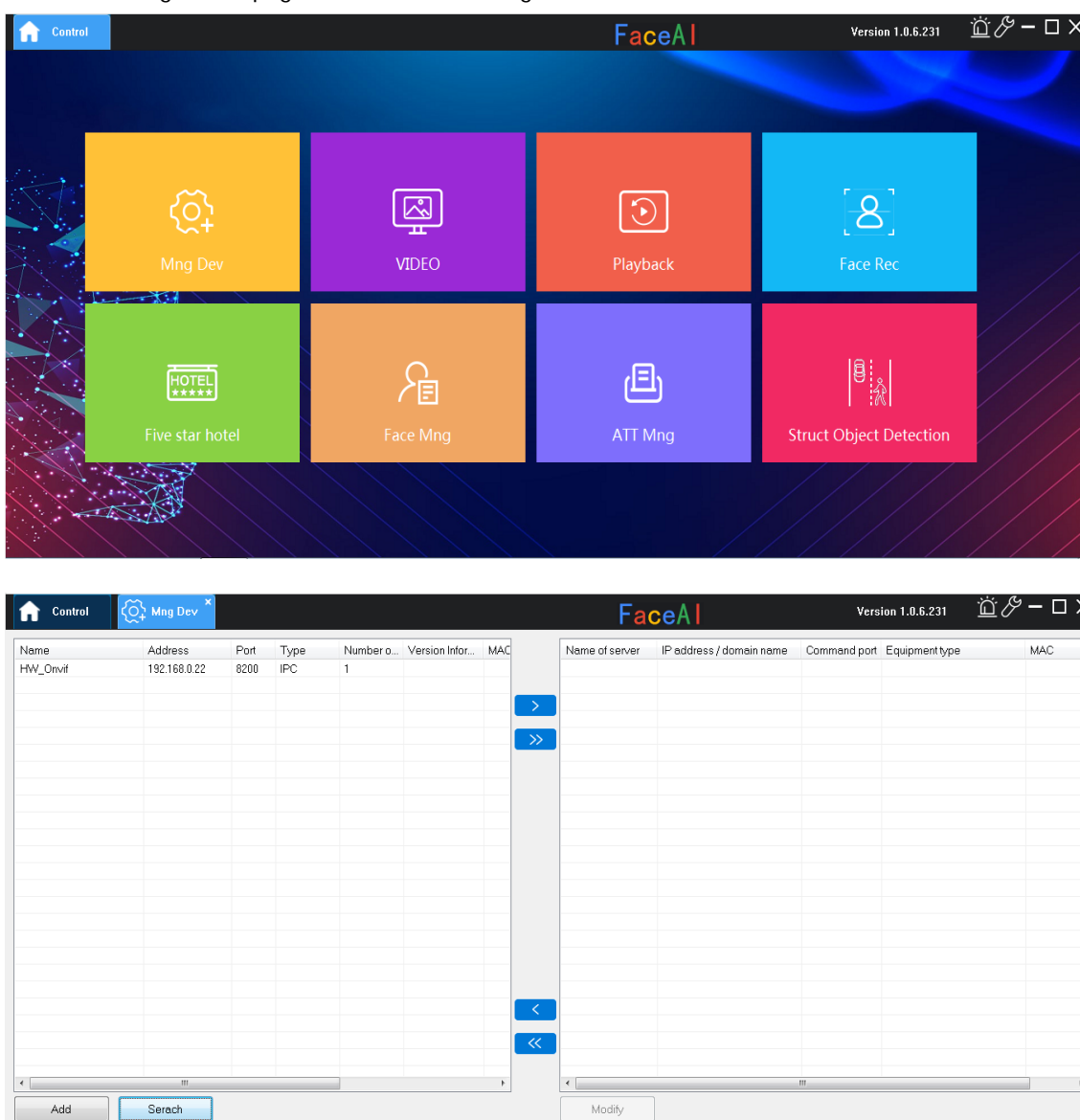
1、Device connection

Device add login preparation

Install the computer client FaceAISystem management software (Software acquisition contact device vendor, support windows7/8/10), connect the device to the computer through a switch or router (if it is a direct connection, please configure a network segment 192.168.1.XXX for the computer in advance, or after running the client as an administrator, a prompt for adding a camera network segment to the computer will be automatically displayed to add a network segment).

Device connection

Right-click the FaceAISystem client (you are advised to run it as an administrator), and click Device Management on the control panel to go to the device management page, as shown in Figure 1-1.



In Figure 1-1, you can see the searched devices on the left and the added devices on the right. You can either double-click on a device to add it or click on the right arrow button on a device to add it.

Video Browsing – Device login

On the video browsing interface, the added devices have been logged in and out of the picture. Double-click or right-click to log in to the server, enter the account and password, and click OK to get out of the picture (admin and password are empty by default), as shown in Figure 1-2.

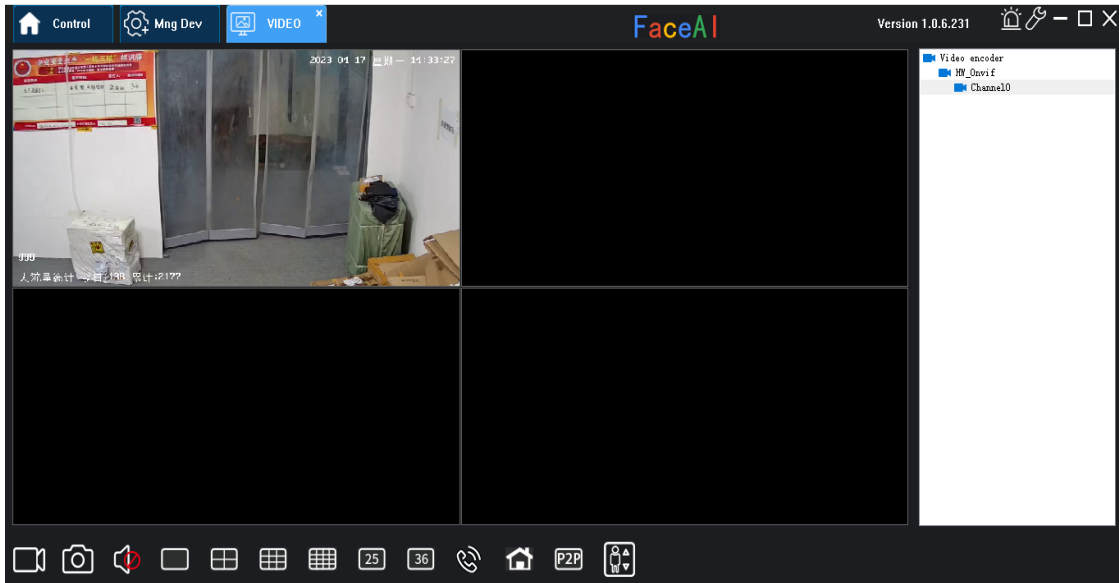
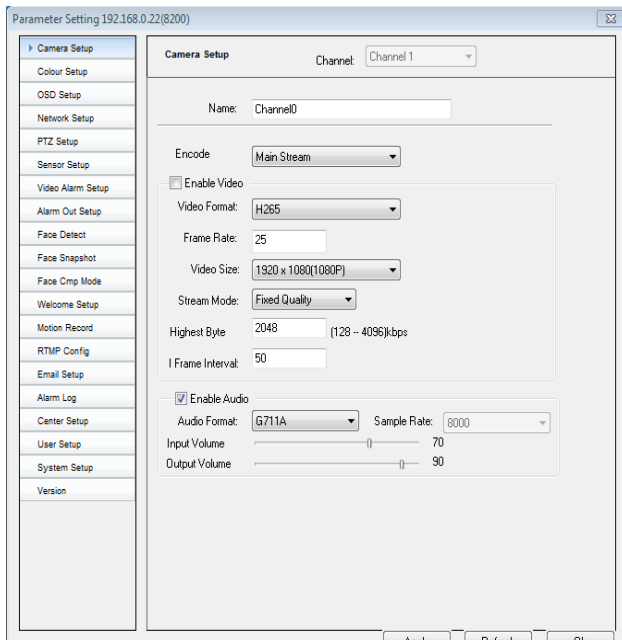


Figure 1-2 Device login

Video Browsing – Remote Settings – Encoding Settings (No arbitrary changes allowed)

Video viewing screen Right-click the device that you have logged in to and click Remote Settings to enter the parameter setting screen, as shown in Figure 1-3.



Video browsing – Remote Settings – Network Settings

On the Parameter setting screen, select network Settings, as shown in Figure 1-4.

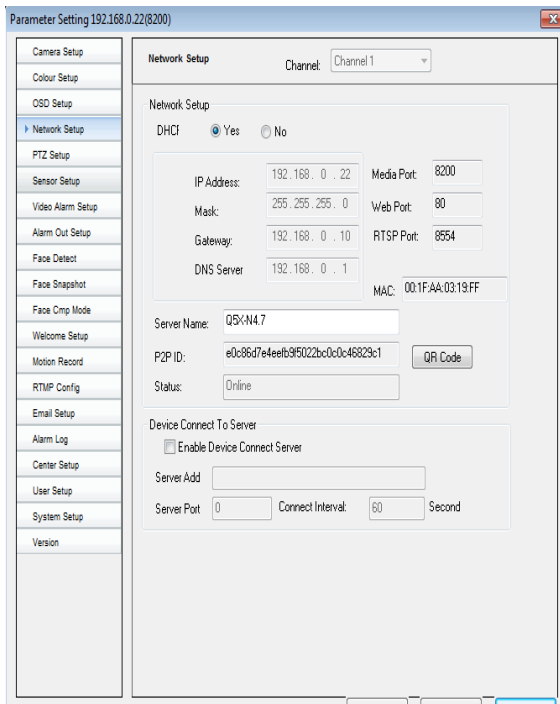


Figure 1-4 Network Settings DHCP: indicates that IP addresses are automatically assigned. No: The fixed IP address, subnet mask, default gateway, and DNS service can be changed only under the fixed IP address (if the user does not set a fixed IP address, the system fixes the IP address after 14 hours by default). Data ports, WEB ports, RTSP ports, and MAC ports cannot be modified. Device name: User-defined. Cloud service ID: cannot be changed. Status: Registered successfully and cannot be modified.

(If the device is a WiFi device, find the WiFi setting item and change the mode on the WiFi setting page to DHCPMode, and then manually input the corresponding wifi information that needs to be connected, including the name of the ssid hotspot and the password. The name of the ssid can only be characters: such as numeric alphabet symbols, Chinese characters cannot be recognized)

Video Browsing – Remote Settings – Face detection Settings

Select face detection Settings on the parameter setting screen, as shown in Figure 1-5.

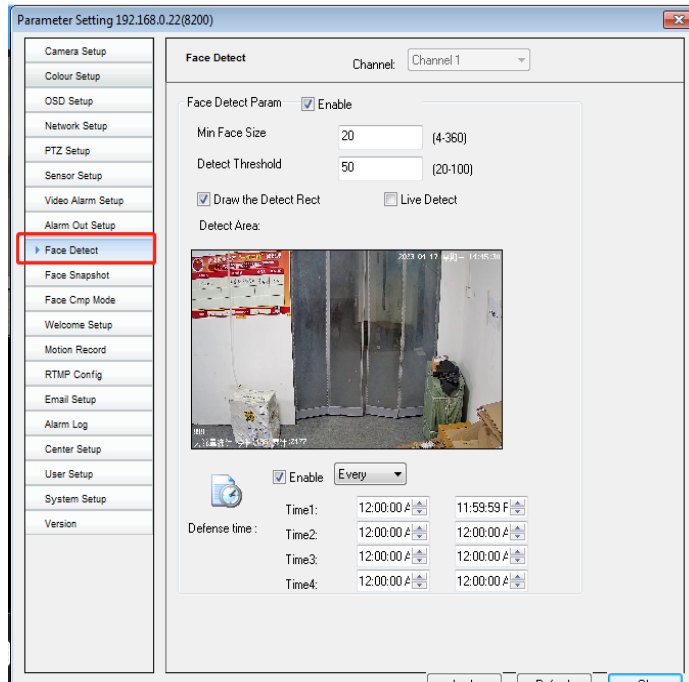


Figure 1-5 Face detection Set Face detection: If this parameter is selected, face detection is enabled. If this parameter is not selected, face detection is not enabled. Minimum face size: 16-360 can be filled in, IP camera default 20, access screen default 65; The smaller the value, the smaller the face that can be detected and the farther the recognition distance. Face quality greater than: can fill in 20-100, IP camera default 50, access control panel machine default 78; The higher the score is, the higher the quality of the captured image is. In general, the parameter can be appropriately reduced to improve the sensitivity of face detection in harsh environments. Whether to overlay the face frame on the video: if checked, the face frame will be displayed after the face is detected. If not checked, it will not be displayed. Whether to enable live detection: Only the access surface machine can be used. Defense area: Four detection boxes can be drawn. After the defense area is drawn, the device detects only in the defense area. Deployment time: You can set two time ranges by week or day. Enable Select the Enable box.

Video browsing - remote setting - face comparison mode (except the face similarity threshold can be set according to the actual situation, the rest can not be changed at will)

Select the face comparison mode on the parameter setting screen, as shown in Figure 1-6.

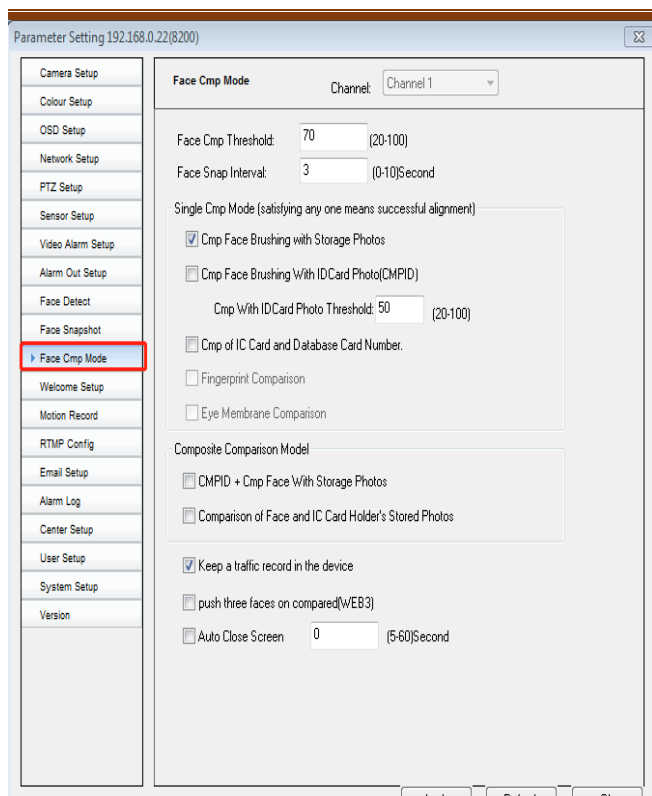


Figure 1-6 Face comparison mode

Face comparison threshold: can be set 20-100, default 50.

Secondary ratio interval: The value ranges from 0 to 100. The default value is 3.

Person-to-witness comparison mode (only valid for access control panel machine products)

Single comparison model:

1. Compare face brushing with stored photos
2. Face and ID photo comparison (witness comparison)
 - 2.1. Witness comparison threshold. The default value is 0, and a number ranging from 20 to 100 is supported.
3. Compare the IC card number with the database card number
4. Fingerprint comparison is not supported yet.
5. Iris comparison, not supported yet.

If any of the above is satisfied during comparison, the comparison is considered successful.

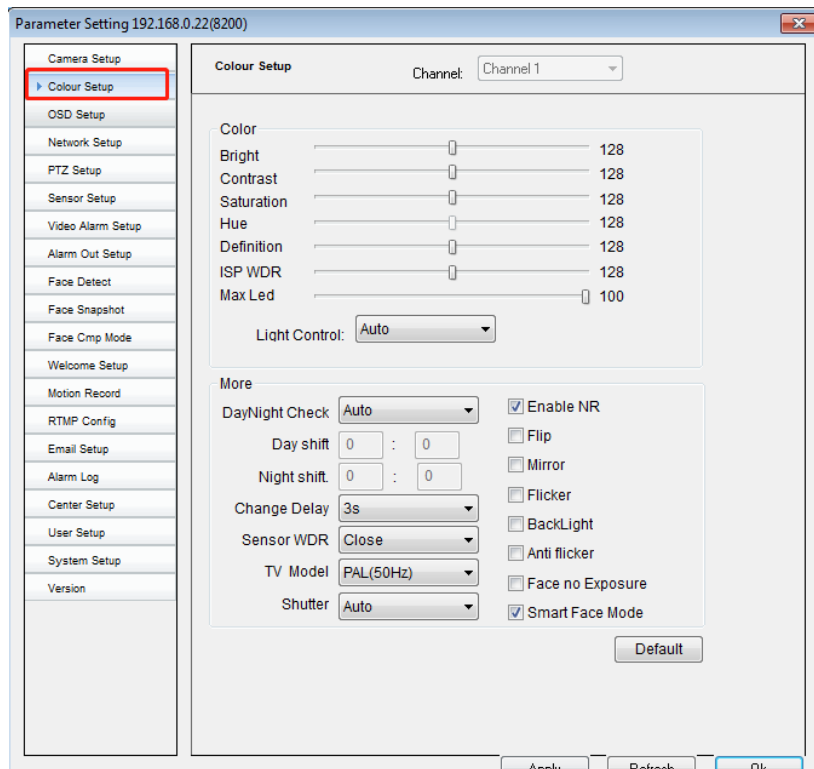
Composite comparison mode:

Witness comparison + face and database comparison: It must meet the requirements of successful witness comparison + face database photo comparison.

* Other common configuration items

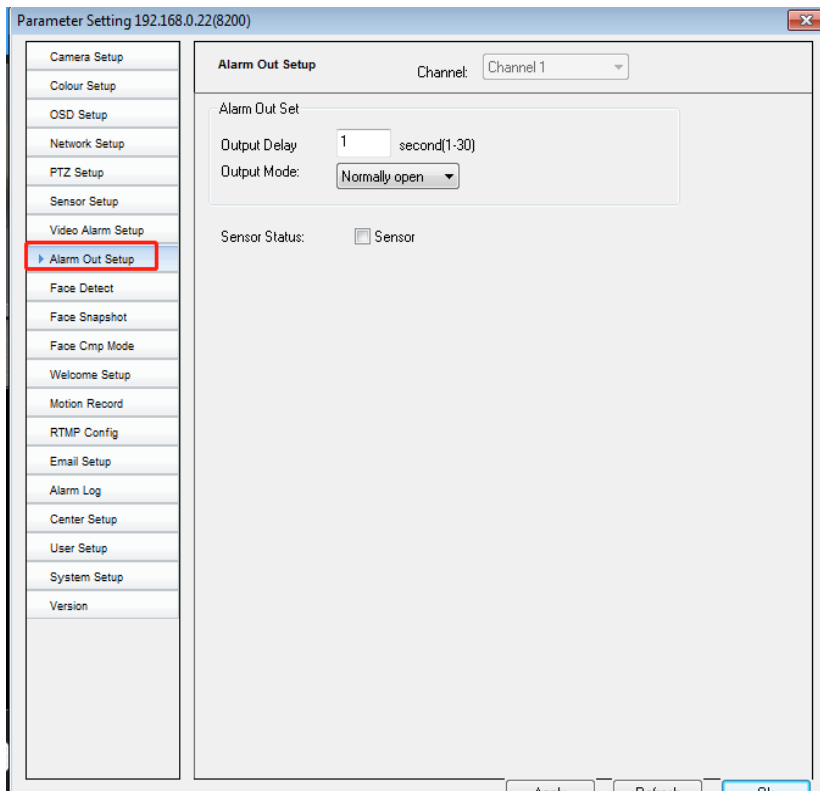
Video Browsing - Remote Settings - Image Settings (generally default)

You can customize the image parameters of the camera device. Generally, you are advised to keep the default mode. If the effect cannot be satisfied in special scenarios, you can customize debugging according to your own judgment of the environment and understanding of the image.



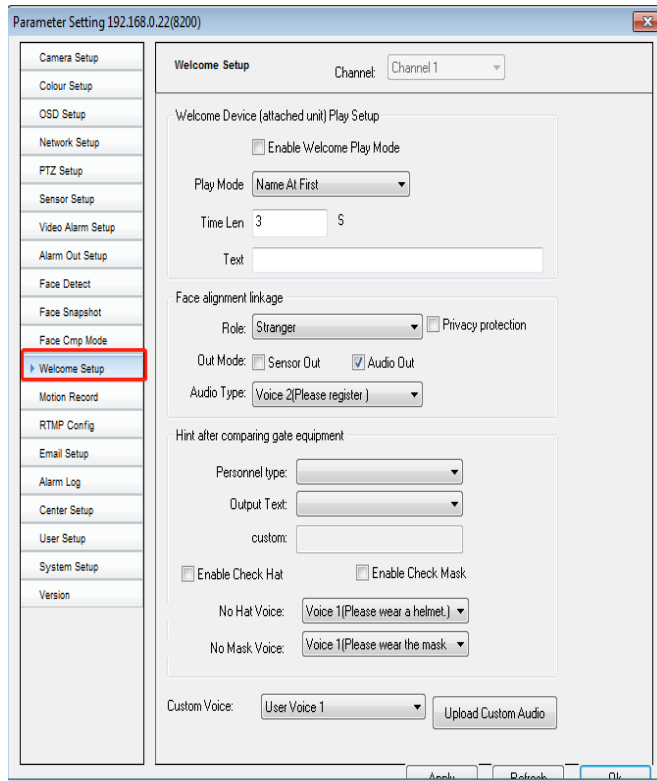
Video Browsing - Remote Settings - Alarm Output Settings

This parameter is the relay delay parameter, can be defined to extend the time



Video Browsing – Remote Settings – Welcome Settings

This page mainly sets the prompts on the interactive page, such as comparison of linkage mode, comparison of prompt tone, helmet detection, mask wearing detection, etc. (Voice uploads can be customized) : The customized voice option must correspond to the voice output option.



C Part of adding face database and exporting attendance records

Add and log in to the device

1. Preparatory work:

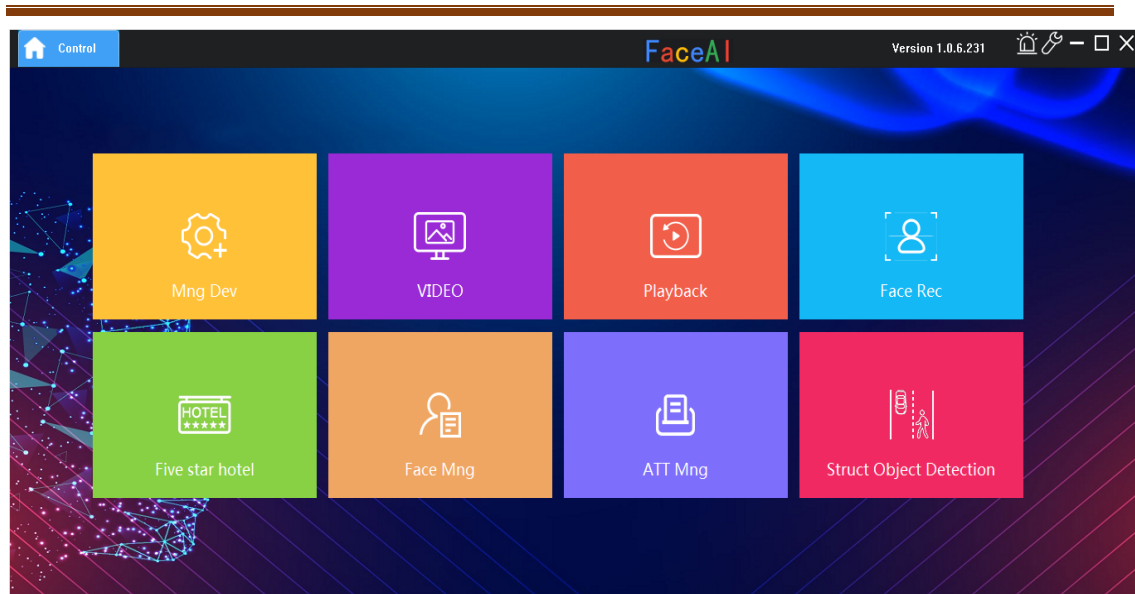
The device connects to the computer through a switch or router (if it is a direct connection , please configure the computer in advance

One 192.168.1.XXX network segment), install computer client FaceAISystem management software (software obtained

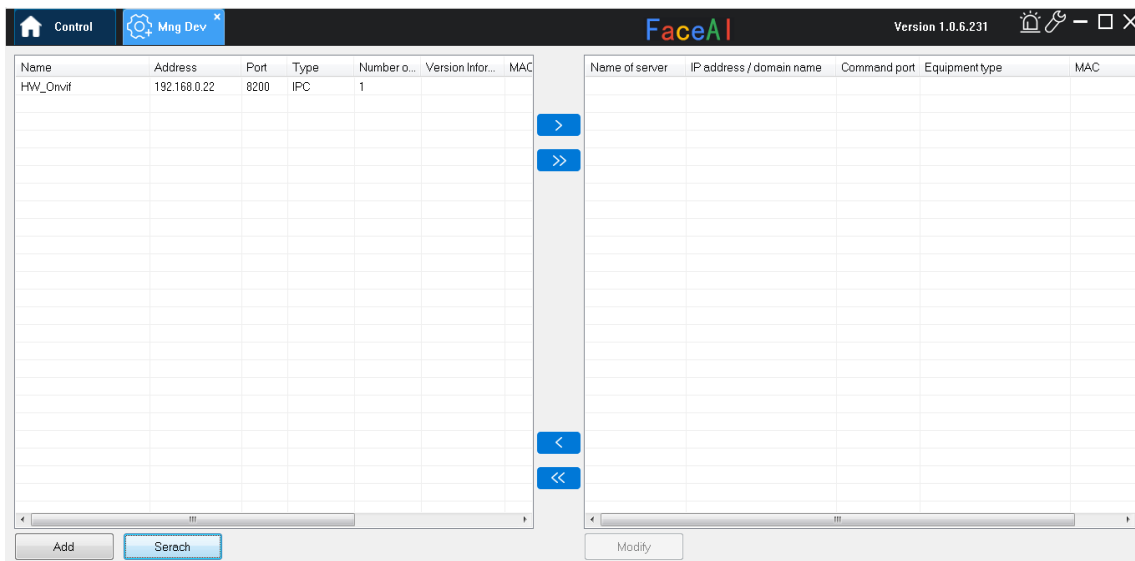
Get contact device vendor, support Windows 7/8/10).

2. The device adds a non-inductive face recognition attendance system

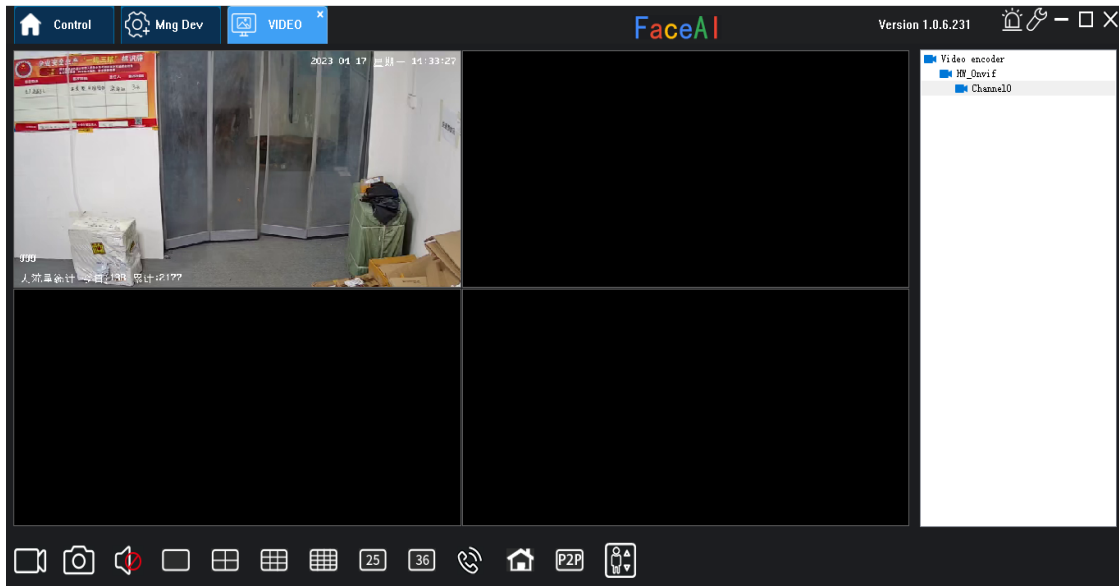
Run FaceAISystem client software, preferably run as an administrator (can cross network segment map), search and add the device operation, as shown in the figure



- 1) Click Device Management
- 2) Click Search as shown in the picture

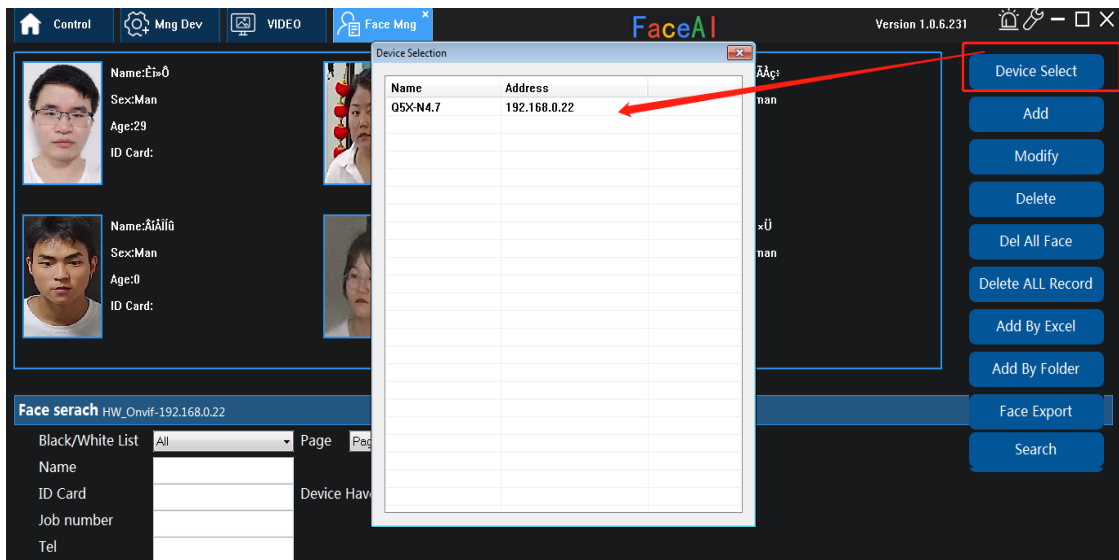


- 3) Double-click on the device, add it to the right, and then select Video Viewing from the Control Panel to view the resulting image.

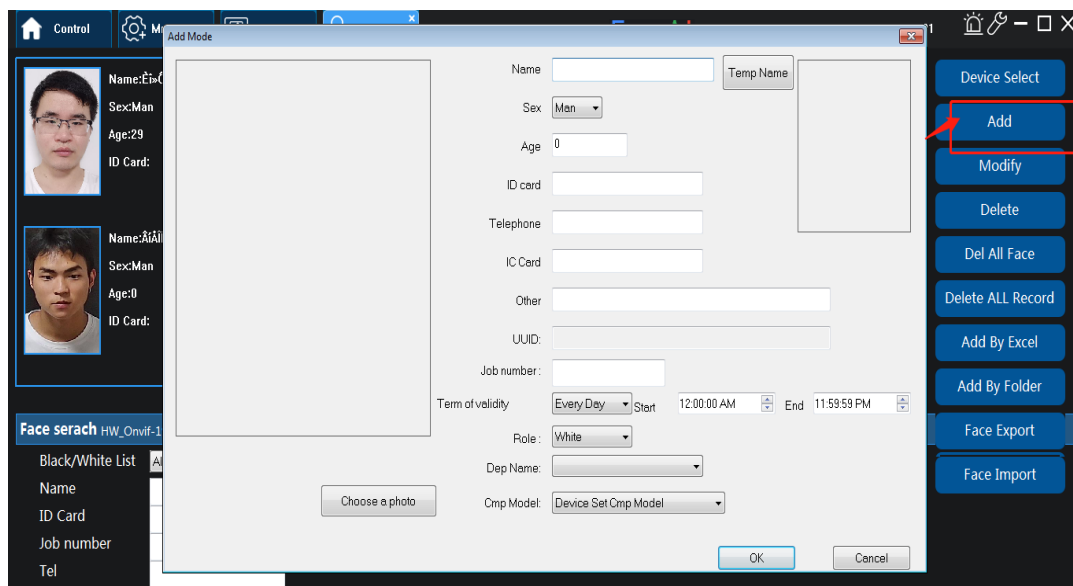


2. Single list registration import operation

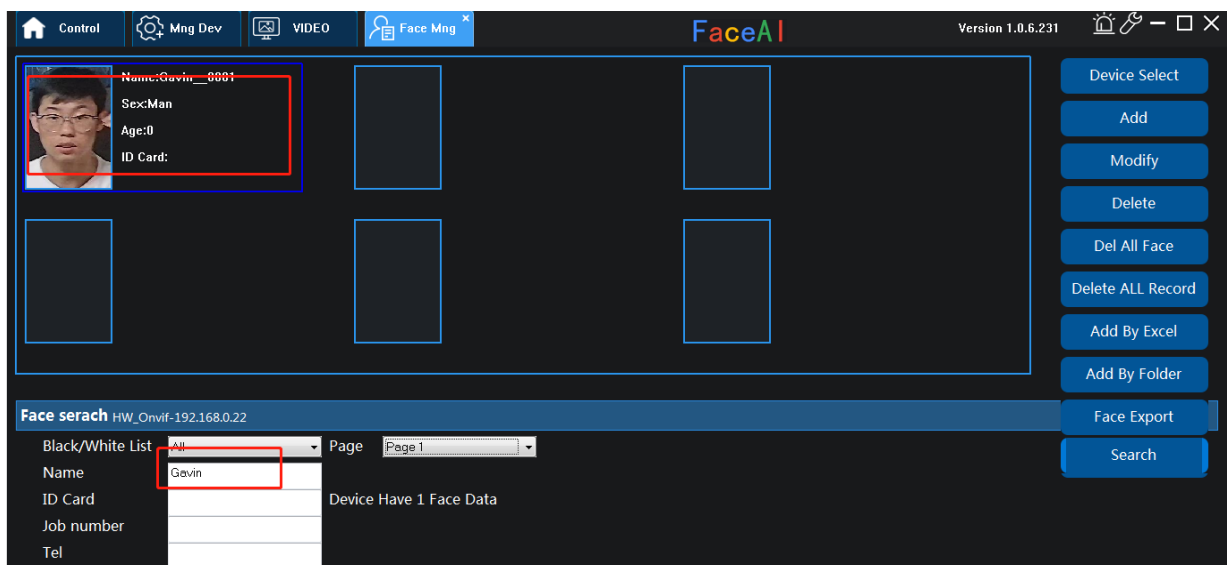
1) Return to the function module of FaceAISystem software control panel, select "Face library management", click on the remote device selection, and enter the operating face of the logged in device, as shown in the figure



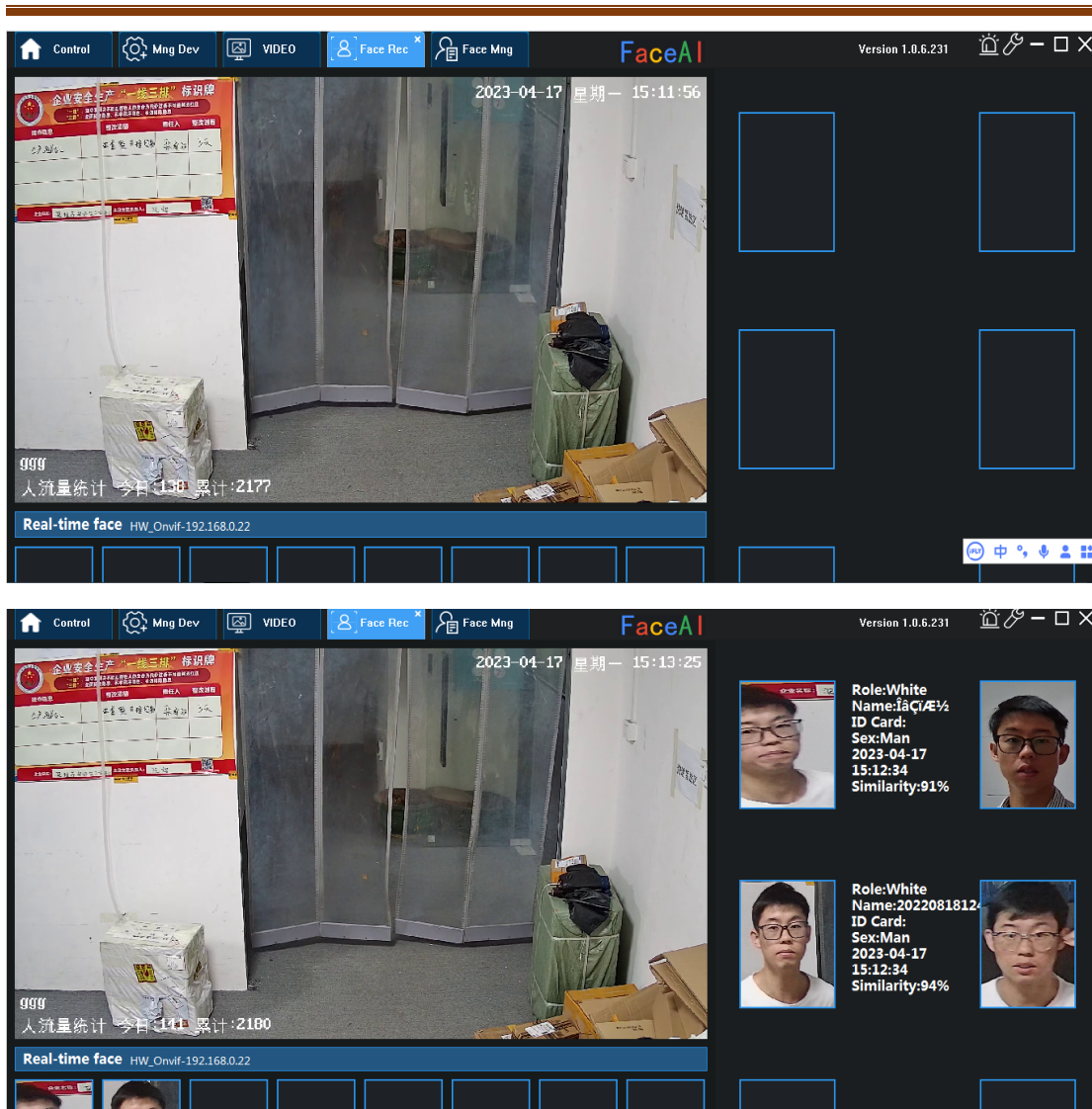
2) After selecting the device, select "Add" from the menu on the right, select the corresponding face library photo and add the corresponding information, and click "confirm", as shown in the figure



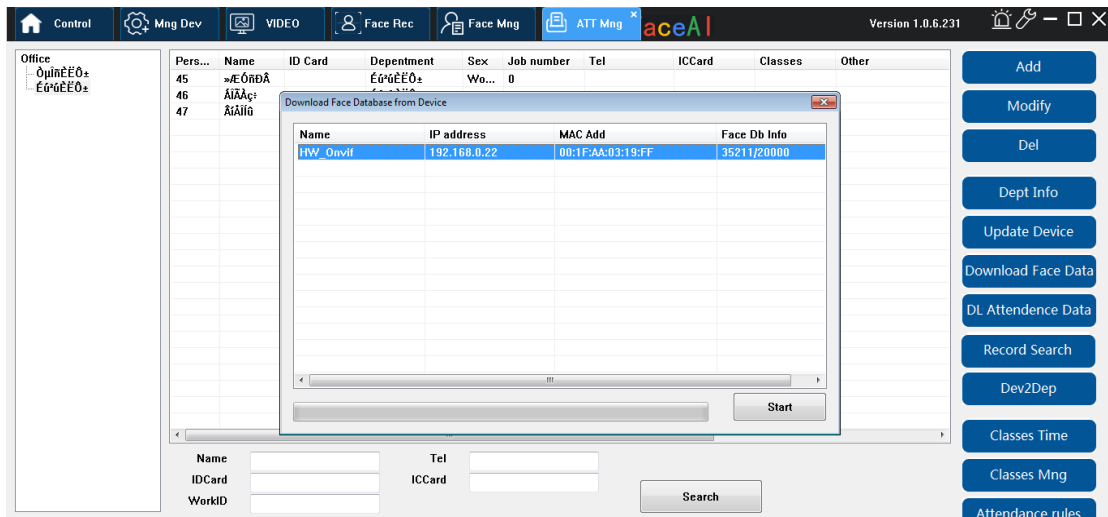
3) After completing the face entry operation, please check whether the comparison setting is successful 1). See whether there is a face library just input, as shown in the figure



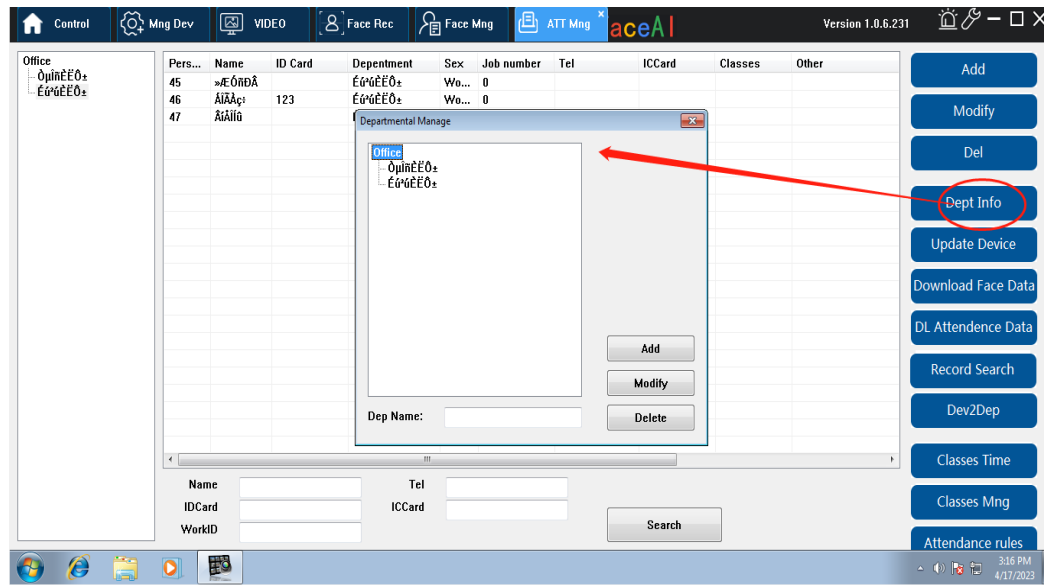
2). In the FaceAISystem control panel, click on the "face recognition" page , continue to click on the "camera selection", after adding, face after the camera will appear in front of the right comparison results, that is to complete all links of the face into the library (batch face registration can be imported through excel or folder import way, The format needs to be obtained through separate communication with the manufacturer)



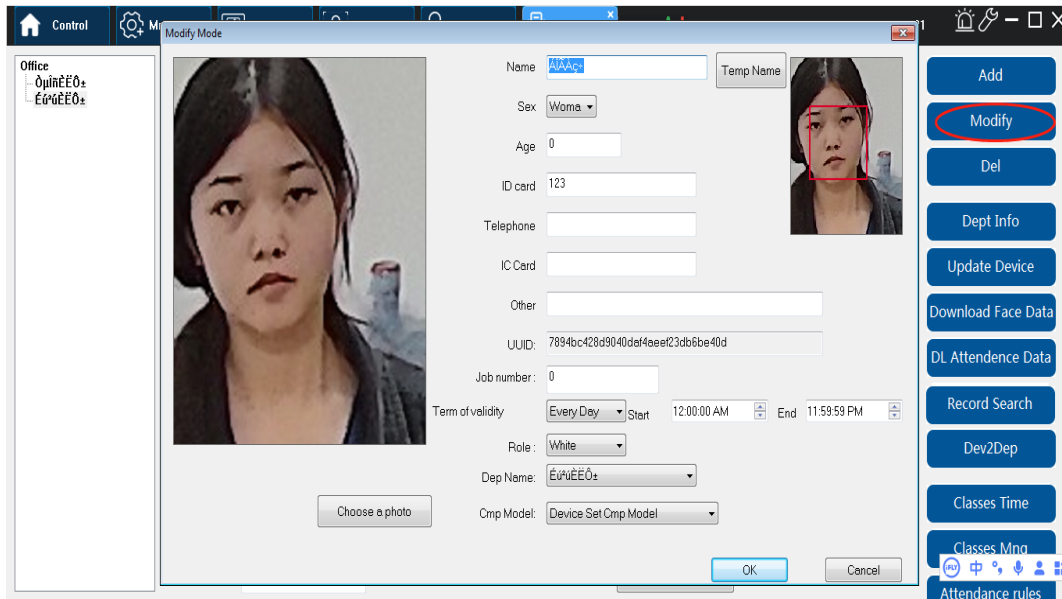
3. Setting of attendance rules and attendance form import
Step 1: Select attendance management in the FaceAISystem control panel, and click "Download face library from device" on the right, as shown in the figure



Note: Face data is stored directly in the head office directory.
 Step 2: Set the department table or personnel classification table.
 (The R & D department is taken as an example
 If there is an increase, you can set multiple subdirectories
 Click "Department Table" to add the details of the department to be set up, and click "Add" (If you need to change the name of the parent company, you can also modify it on this page), as shown in the figure below:



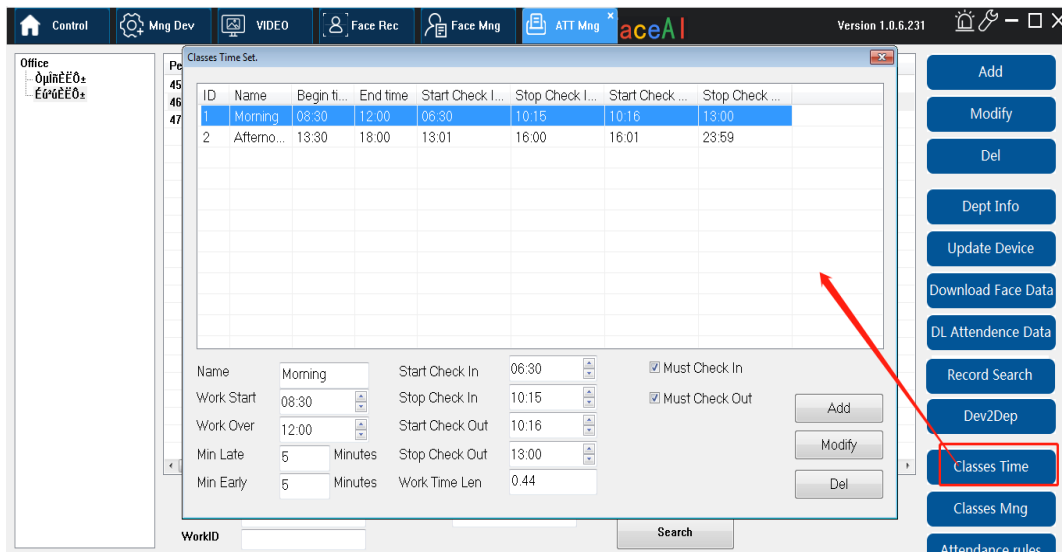
Step 3: Assign personnel to different departments, double-click the personnel list, and select the category to belong to in the department name, as shown in the figure



Note: You have to click on the head office first to see the personnel details.

Step 4: Maintenance of shift time period

Double-click to open the maintenance of shift time period and set it according to the specific attendance rules. After setting it, click modify to save it successfully, as shown in the figure



There are several time concepts that need to be explained here (take morning as an example)

Starting check-in time: mainly for work. As shown in the picture, 6:30 to 8:30 is the normal time to punch in, and the time before 6:30 is counted as unpunched in

End check-in time: Mainly for lateness, which means 8:30-10:15 for lateness

If you clock in after 10:15, you haven't clocked in

Start and return time: After the start of the start and return time, all the clock counts as the end clock

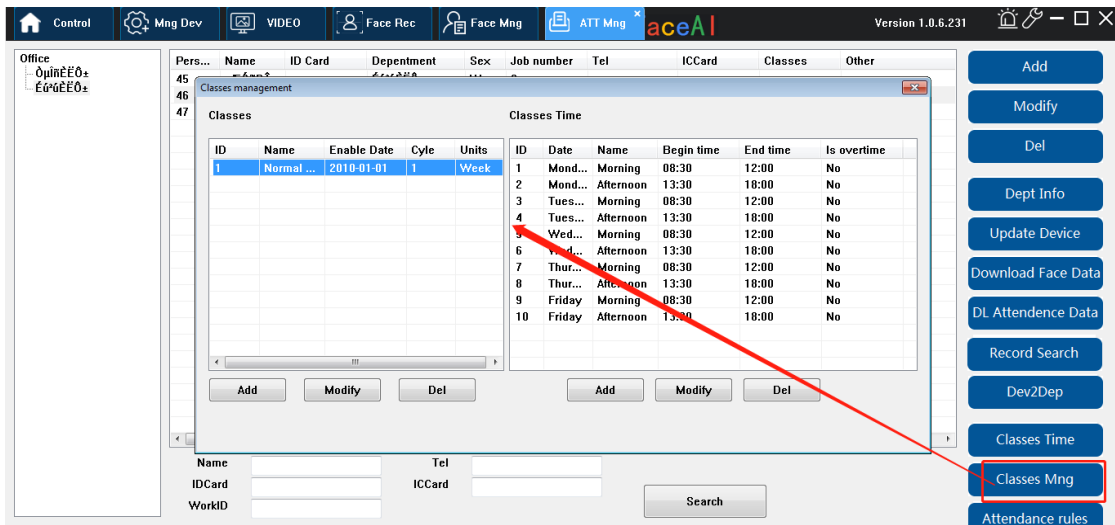
End Check-in time: The morning check-in rule ends

Note: Those who do not punch in the above time will be counted as not punching in. Please arrange the punching time reasonably

Step 5: Shift management

After setting shift rules in shift time period maintenance, click corresponding shift in shift management and add to right

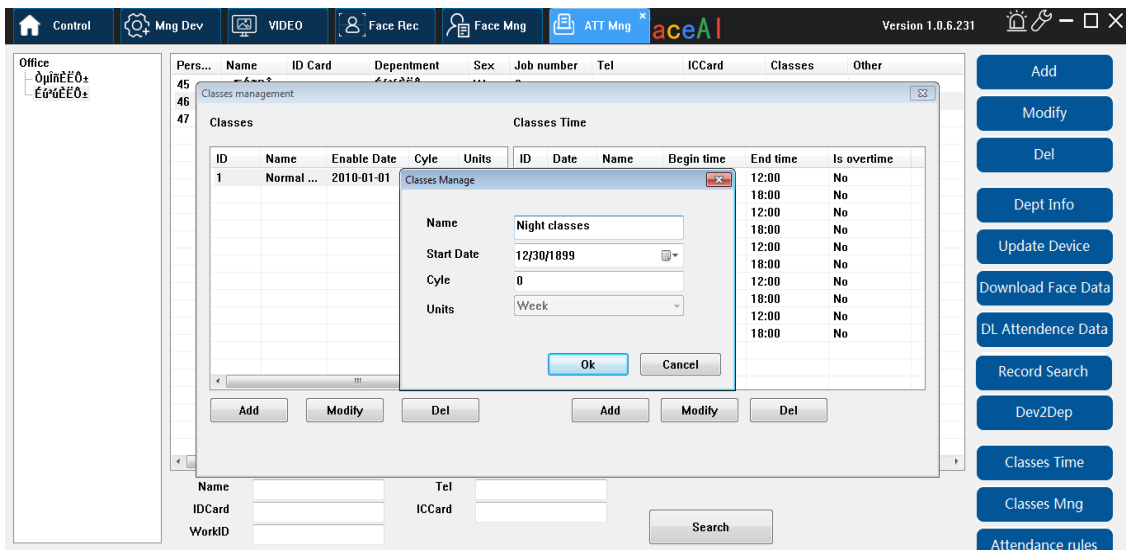
specific shift on the right, as shown in the figure:



The default schedule is normal schedule, which is just set in Schedule Maintenance.

In this project, you will need to set the "right shift time" in the regular shift to confirm that you are importing the required day of the week records in the attendance form.

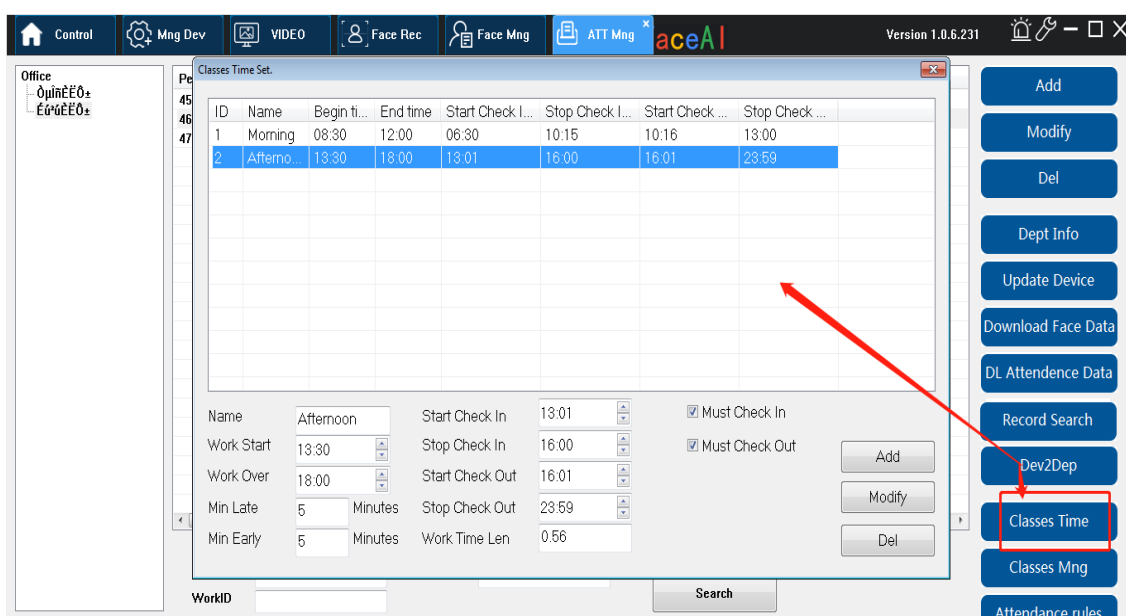
If you need a night shift in addition to the regular shift, you need to set it as follows: 1. Click Add shift



2. After setting the shift, select the shift that needs to be set and click Add time period

Click OK

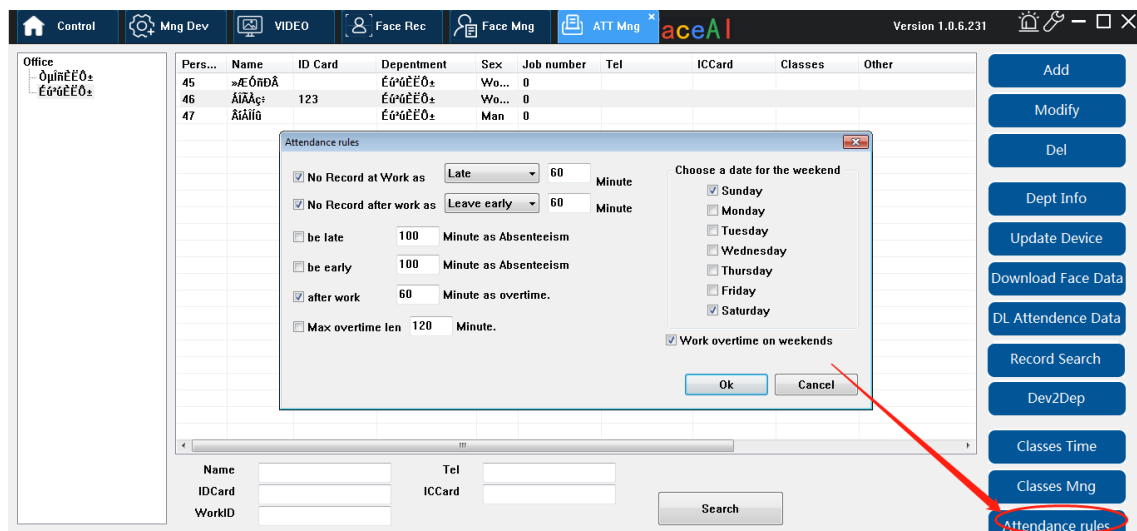
And if you think that morning and afternoon are no longer in use of your current rules, you can reset the opening time slot. Please click "shift time slot maintenance" and select "Increase", as shown in the figure



This step completes shift management

Step 6: Attendance rules

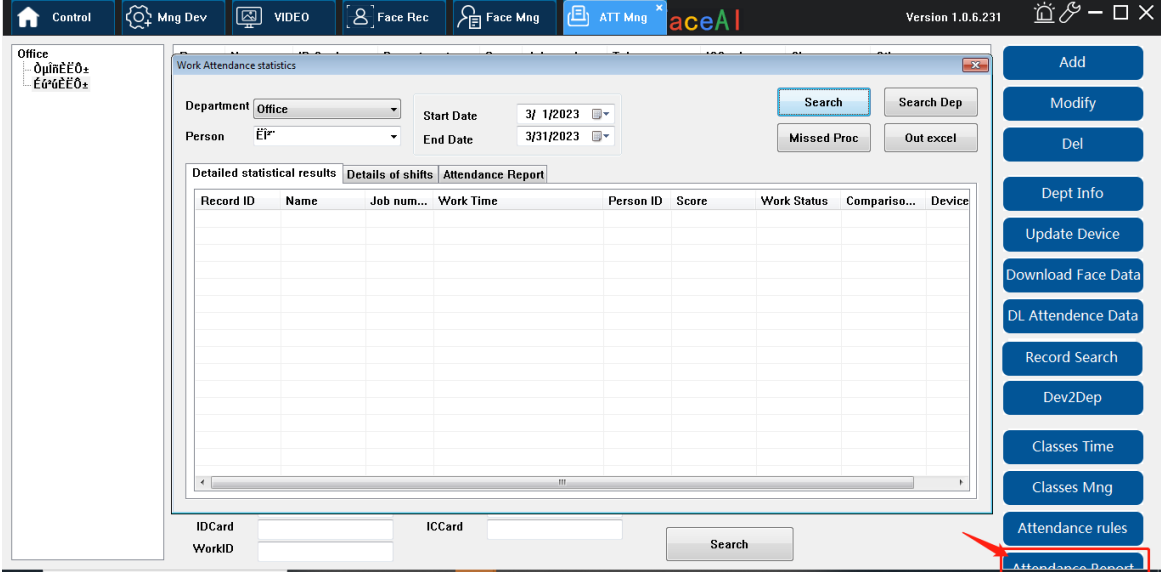
The specific attendance rules are shown in the figure. Please set them according to the actual situation



Step 7: Attendance form output

After clicking "Attendance report", there are three tabular statistical methods

They are: statistical result details, shift details, attendance summary statistics, as shown in the figure



According to the requirements of attendance rules, click the output report (the computer needs to install Microsoft office software)