



Shenzhen Hailingke Electronics Co., Ltd.

HLK-TX510-028S

Face recognition module applet

Instructions for use

1 Introduction

1.1 Purpose of writing

This document mainly describes the operation of the HLK-TX510-028S face recognition kit to input face feature values through a small program.

The operation steps and the function description of the applet.

1.2 Scope of application

This document is applicable to products such as boards and terminals that use the HLK-TX510-028S series.

HLK-TX510-028S firmware version: HLK-TX510(V1.00.0004)

HLK-B36 firmware version: app-2.1.1-20221110.172822

2 Preparation before use

1.1 Environment preparation

serial number	name	quantity
1	HLK-TX510-028S set board	1
2	HLK-B36 set board	1
3	USB to Type-C data cable	1
4	Micro USB cable	1
5	dupont line	3
6	Android/iPhone mobile phone with "WeChat" APP installed	1

1.2 Hardware connection

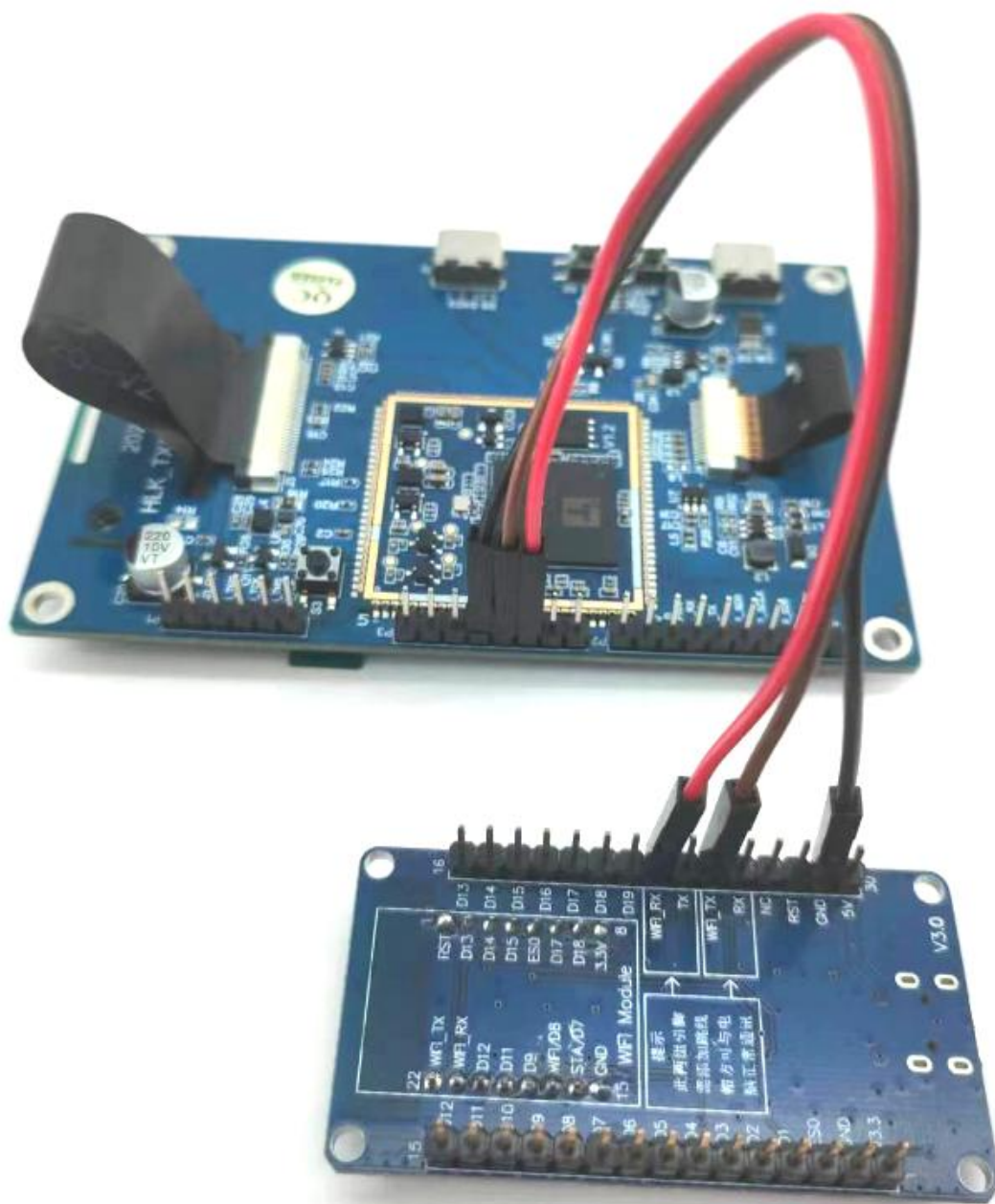
Use the USB to Type-C data cable and the Micro USB data cable to supply power to the TX510 and B36 boards respectively.

Connect the RX, TX, and GND pins of the B36 to the TX, RX, and GND on the TX510 through DuPont lines, as follows

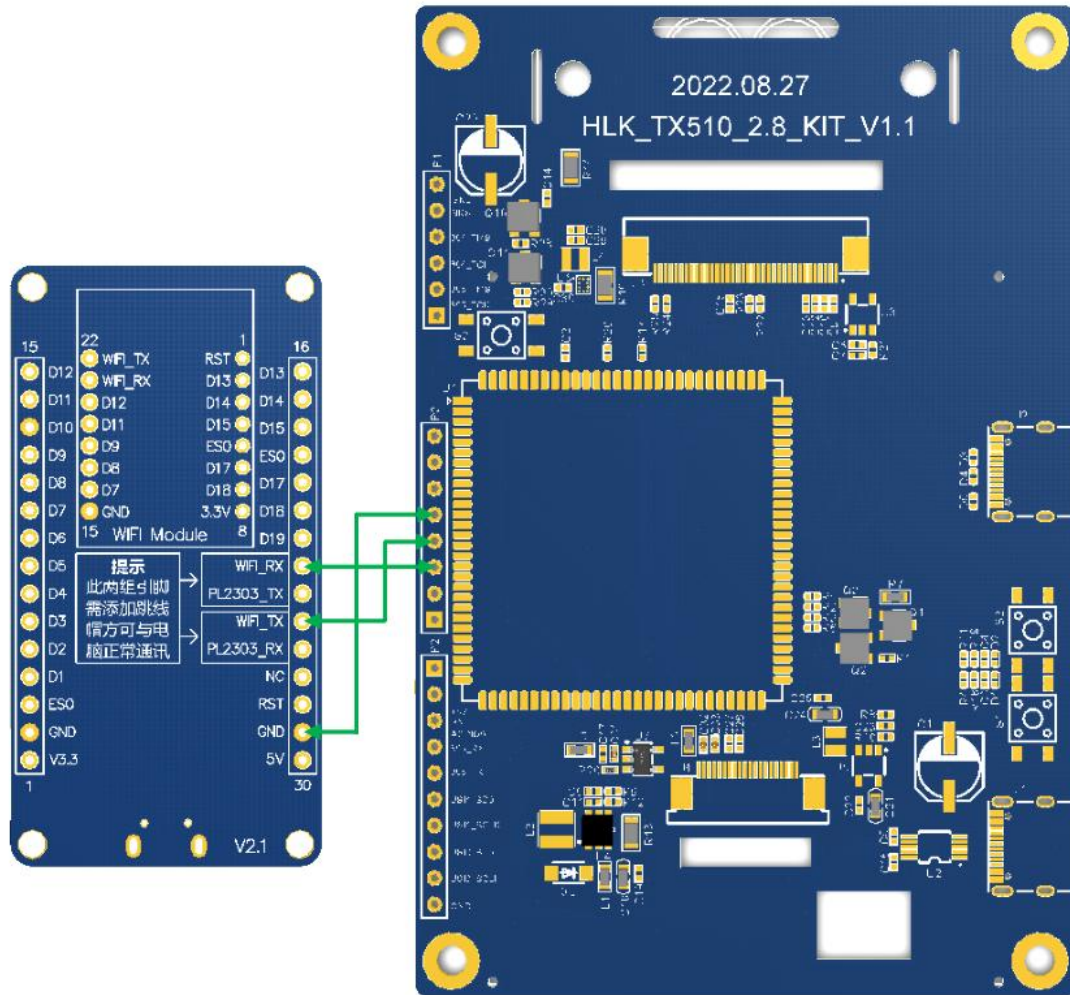
As shown in the figure:

Note: Power supply adapter current $\geq 1A$

Physical diagram wiring:



3D diagram wiring:



3 Applet use

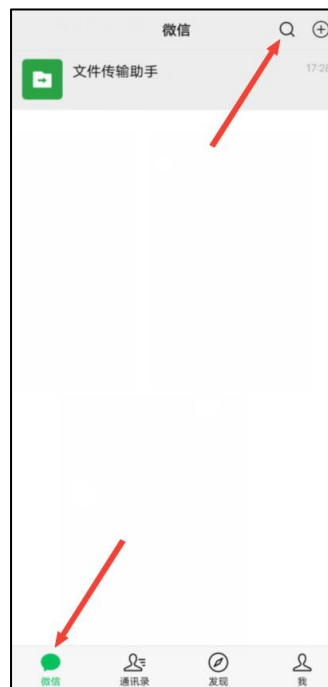
This small program is developed based on the HLK-TX510-028S face recognition module, which realizes network distribution, device binding, remote

Program entry feature value and other functions. Full name: HLKTX510S.

3.1 Search and enter the WeChat applet

Enter WeChat, click the "Search" icon in the upper right corner, enter "tx510s" in the search document box to search,

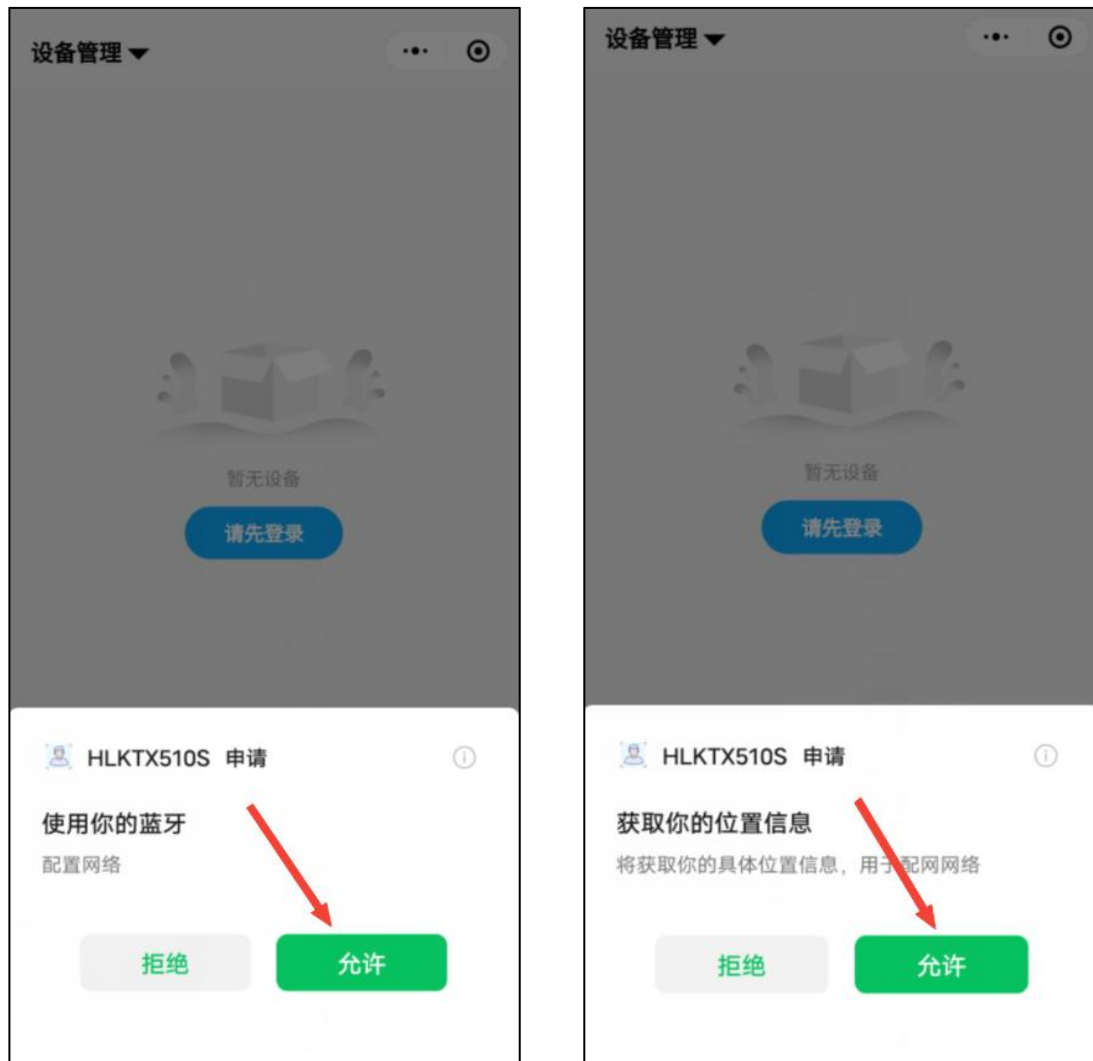
Click on the column of applets to find the corresponding applet



3.1 Authorization authority

When entering the applet for the first time, the phone needs to authorize the applet with Bluetooth and location permissions, otherwise the device cannot be found.

to configure the network



3.2 Operation steps

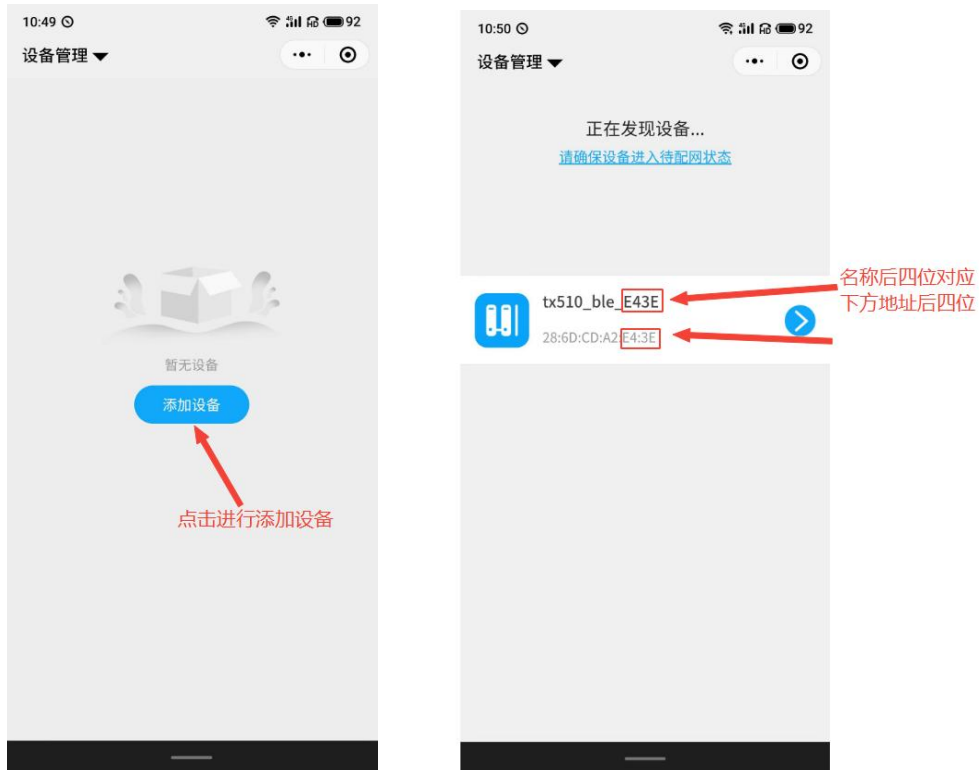
1. Before adding a device for the first time, you need to log in with an account. The default login account is the current WeChat binding

cellphone number. You can also change to another mobile phone number to log in;



2. After the account login is completed, it will enter the device list interface. When adding the first device, click "Add" in the middle

Add device" function button. After clicking, it will jump to the search device interface, and the name of the device is "tx510_ble_XXXX"



illustrate:

The device needs to enter the distribution network mode before configuring the network for the device. The default configuration mode of the device is already in the distribution network mode and can be directly configured.

place. If the applet cannot search for the device or you want to change other distribution network information, you can press and hold the E50 button on the B36 bottom panel

8s to enter the distribution network mode



3. Click the device to be added, and a pop-up window for entering WiFi information will pop up (the device will go to connect after the information is submitted)

The WiFi corresponding to the information, the device only supports connection to 2.4G WiFi) Entering the distribution network interface will automatically fill in the current mobile phone connection

The WiFi name only needs to enter the password, or you can manually enter the WiFi name. After completing the WiFi information, click "Open"

"Start distribution network" function button;

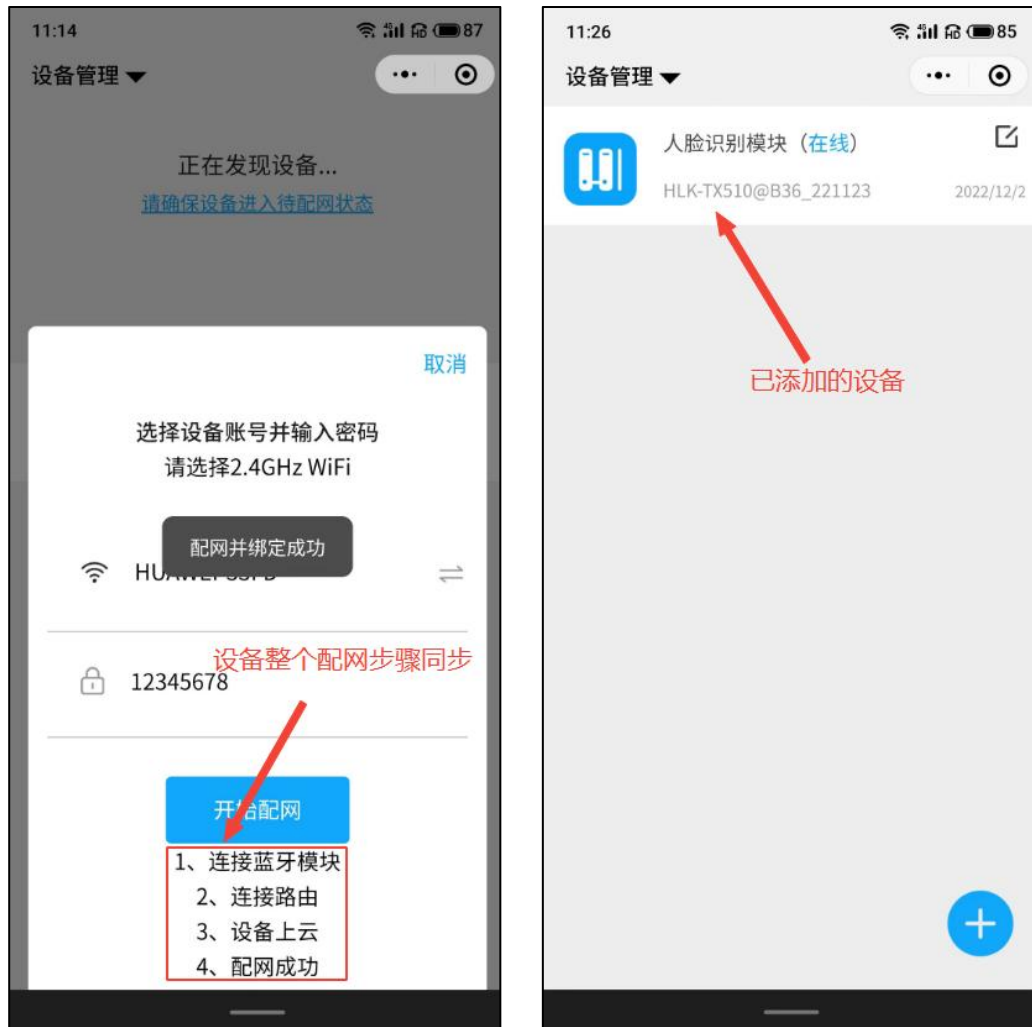


4. The entire network distribution process takes about 15 seconds when the network is good, and there will be a total of 4 steps to connect

The module Bluetooth sends distribution network information, the module connects to the router after receiving the distribution network information, and connects to the service after connecting to the route successfully

Finally, the device is bound to the device, and the lower part of the distribution network pop-up window will synchronize the current device networking status. After completing the device binding, it will automatically

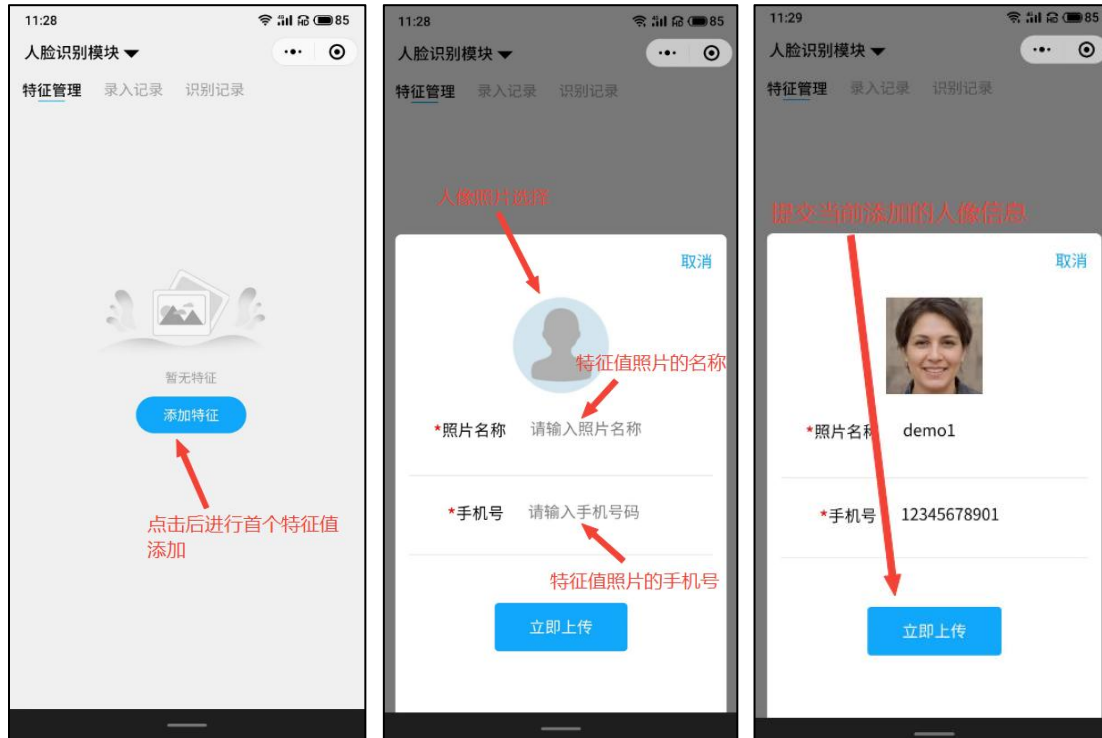
Jump to the device list automatically, then you can see the corresponding device in the device list;



5. Click the newly added device to enter the feature management interface to add feature values. When adding the first eigenvalue

Directly click the function button of "Add Feature" in the middle, and enter the portrait photo, name and mobile phone number to be added.

After the input is complete, click the "upload now" function button below to add the face information to the device;



6. After clicking Upload Now, it will jump to the entry record interface, where you can see the face letter you just added and submitted

An upload status of information, after the upload is successful, the status is "successfully saved" and the characteristic management interface will also have this characteristic value. just

Under normal circumstances, it takes about 2 seconds between submitting the upload information and uploading successfully to upload successfully. Enter photos through the applet

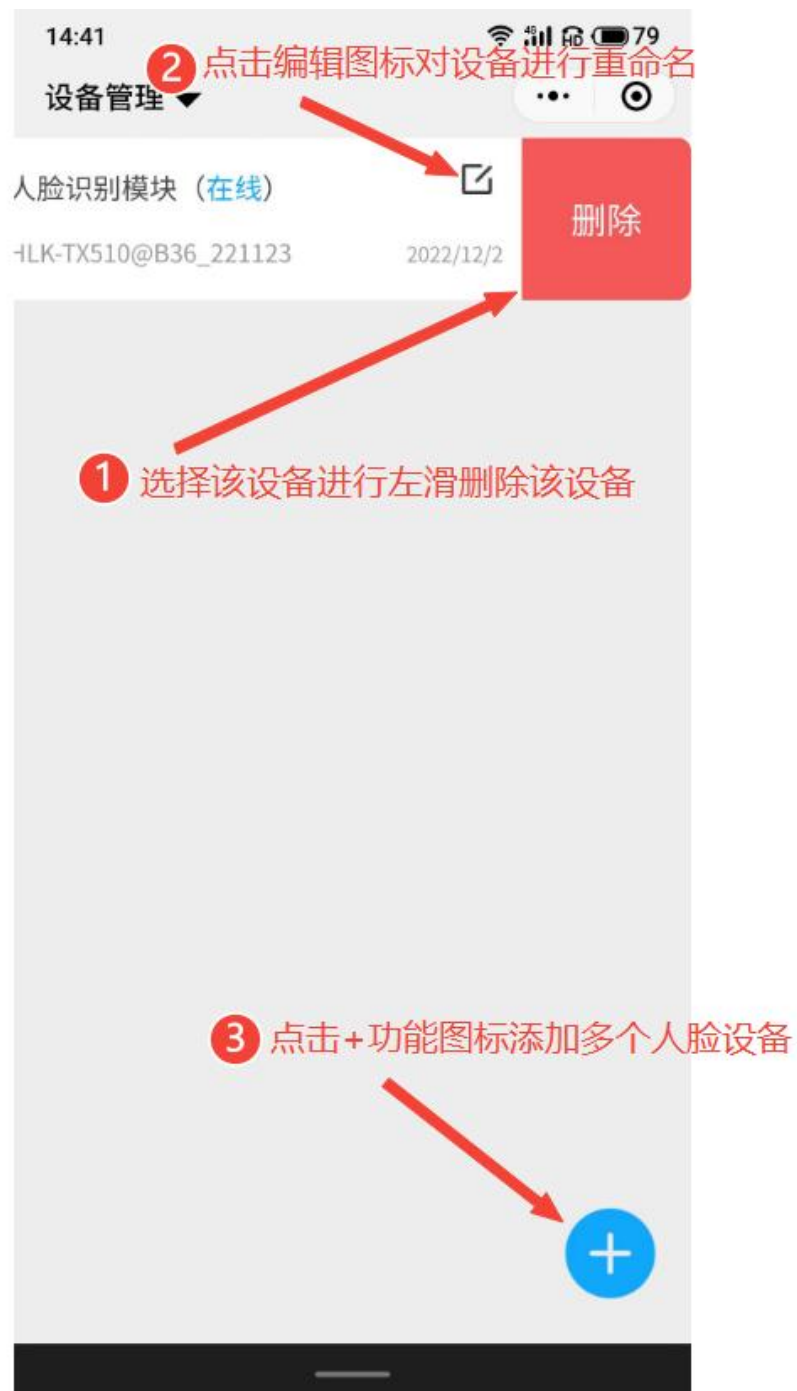
The portrait after the successful filming can be successfully recognized on the local face recognition device.



4 Introduction to other functions

4.1 Device list interface

1. Select a device and swipe left to delete the device
2. Select the "Edit" icon to the right of a device to rename the device
3. Click the "+" function button in the lower right corner to add multiple face recognition devices



4.2 Feature value management interface:

1. Select a feature value and slide left to delete
2. Click Add to add multiple face feature values



4.3 Input record interface:

1. Select an entry record to delete
2. Click the "trash can" icon to delete all the entry records
3. Customize the time range, and only display the entry records within the time range (by default, all time is displayed)



4.4 Identification record interface (display/record the record of successful identification triggered by the device):

1. Select a record and swipe left to delete the identification record
2. Click the "Trash Can" icon to delete all identification records
3. Customize the time range and only display the identification records under this range

