

User Manual

Thank you for choosing Droid820Covid19



Temperature Screening Kiosk

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Chapter 1 Introduction

1.1. Overview

Droid820Covid19 is a body temperature screening kiosk with built-in facial recognition Camera and infrared thermal imaging sensor for detecting users with abnormal high temperature, it has high-speed and high accuracy performance, with Special settings allow recognizing human faces with medical masks on and eliminating the need to remove the mask during the recognition process. Many more custom options For access settings for different application scenarios from low traffic offices, schools, Shopping Mall, park, to high traffic railway stations.

1.2. Features

- German technology in infrared thermopile arrays IR array 16x12/32x24 (Melexis)
- Built-in biometric camera infrad+RGB dual-lens with wide dynamics;
- Rugged Metallic Housing For Commercial Use;
- Rich Interface RS232, RS485, GPIO for further development ;
- Support RFID, Wiegand
- Facial recognition with or without mask wearing,
- Durable and sleek, Alluminium Unibody Housing
- IP67 waterproof;
- With API to integrate with your OA & CRM

1.3. Appearance



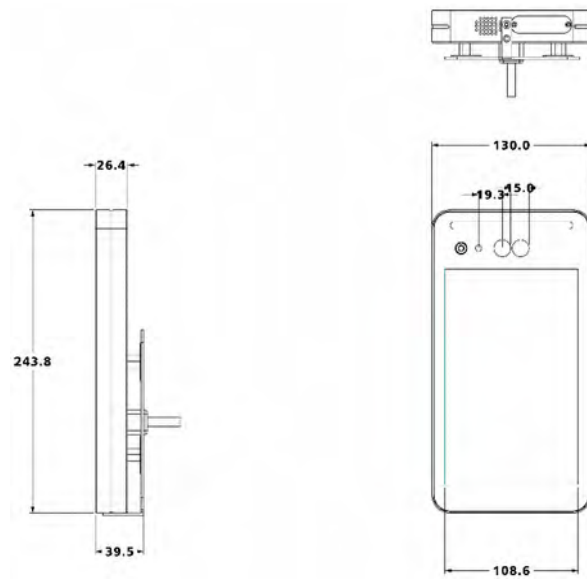
1.4. Specification

Droid820Covid19		
Camera	Resolution	2.0MP pixels/ RGB, 1.3MP pixels / Infrared
	Types	RGB, infrared dual camera, 1/2.7" progressive scan CMOS
	Aperture	F2.4
	focal length	3.0mm, field of view angle of 57/88 degrees
	White balance	Auto, wide dynamics, backlight compensation, strong light suppression, digital noise reduction
Screen	Size	8-inch, IPS LCD screen
	Resolution	1280 x 800 pixels
Processor	CPU	4 cores, 1.8 GHz
	Local storage	2GB of memory, 8GB of storage
Accessories	Fill light	Infrared, LED fill light (Motion activated)
	Card reader module	IC card reader (Mifare)
	Network module	Support wired, wireless (WiFi)
Interface	Audio	1 channel audio output (line out)
	Wired network interface	2.5mm terminal block 8P (POE optional)

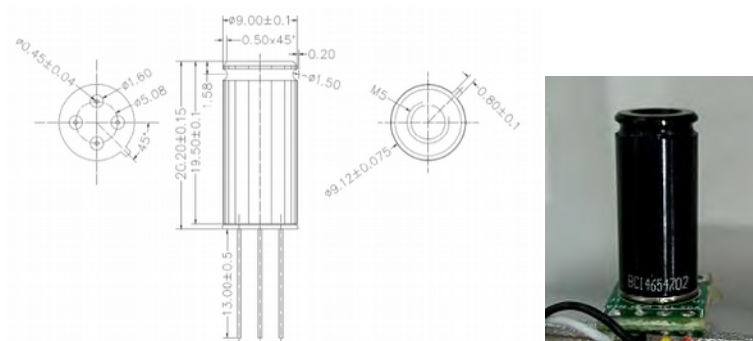
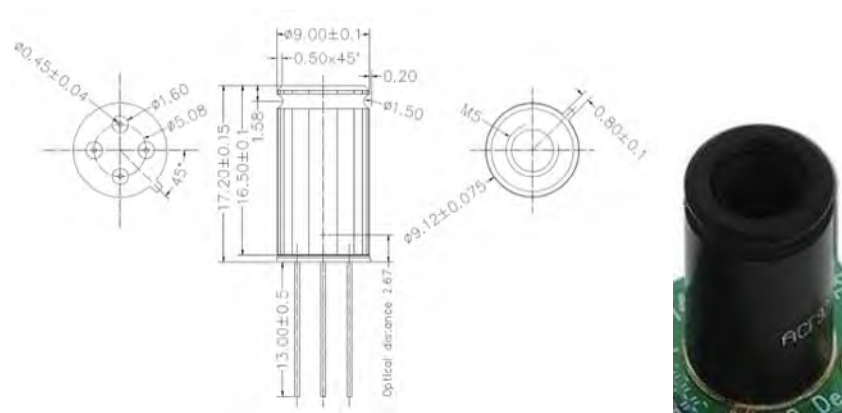
	USB interface	USB 2.0 Type-A interface
	Serial communication interface	RS232 serial port, 2.5mm terminal block 4P
	Relay output	2.5mm terminal block 3P
	Wiegand interface	2.5mm terminal block 2P
	Reset interface	RESET on the back of the device
Features	Face capacity	30,000 Templates
	Face detection	Supporting detection and tracking of 5 people at the same time
	Face recognition accuracy	99.99%
	Unknown face	Detects unknown personals (Not enrolled)
		Support
	Recognition distance	Configurable distance settings up to 1.2m
	UI interface configuration	Built in User interface
	Remote upgrade of equipment	Upgrade Through LAN
	Device interface	Interface includes device management, personnel/photo management, record query, etc.
	Deployment method	Third party software support with SDK
Temperature	Thermal detection	28 ⁰ C~43 ⁰ C / 82.4 ^{0F} ~109.4 ^{0F}
	Accuracy	±0.4 ⁰ C
	Minimum distance	50cm / 1.64ft
General parameters	Protection level	IP54 dustproof and spill proof
	power supply	DC12V (±10%), 2A
	Operating temperature	-10 ⁰ C-50 ⁰ C / 14 ⁰ F-122 ⁰ F
	Working humidity	10%~90%
	Power consumption	9.8W MAX
	Installation method	Wall-Mount, Pole for turnstile
	Equipment size	243.8mm*130mm*26.4mm 9.6" × 5.2" × 1.03"
	Weight	≈ 1.92kg / 4.41lb

1.5. Dimension

Device

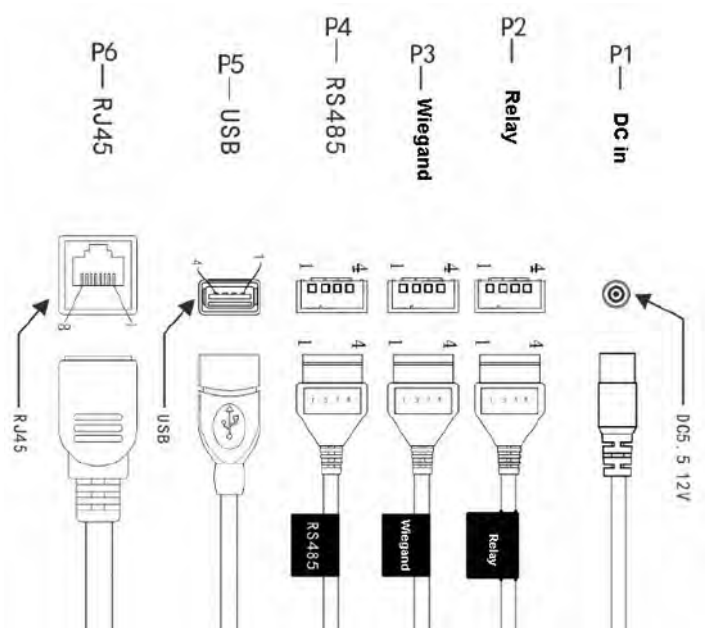


Temperature module



Chapter 2 Installation / User manual

2.1 Wiring and connections



P2 / Relay | 1-No, 2-COM, 3-NC, 4-IN2;

P3 / Wiegand | 1-WO(input2), 2-W1 (input 2), 3-GND, 4-12V;

P4 / RS485 | 1-RS485 (A), 2-RS485(B), 3-GND, 4-IN1 (Alarm in)

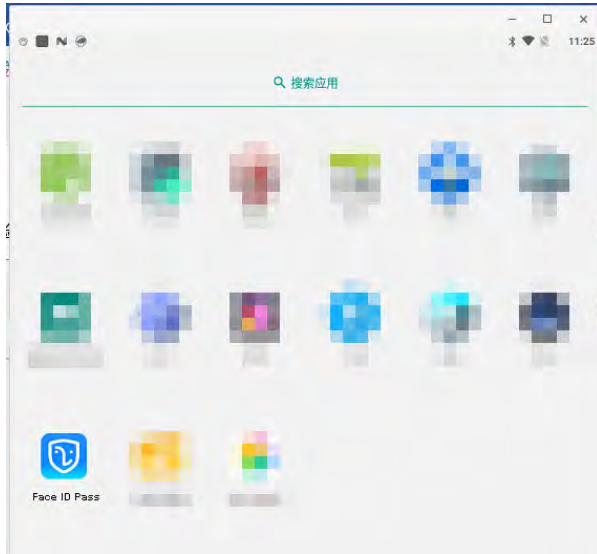
2.2 Temperature Kiosk description

Before powering up the device please make sure the connections are tight and firm, right power supply is used (12V DC 2 Amp) and network is available.

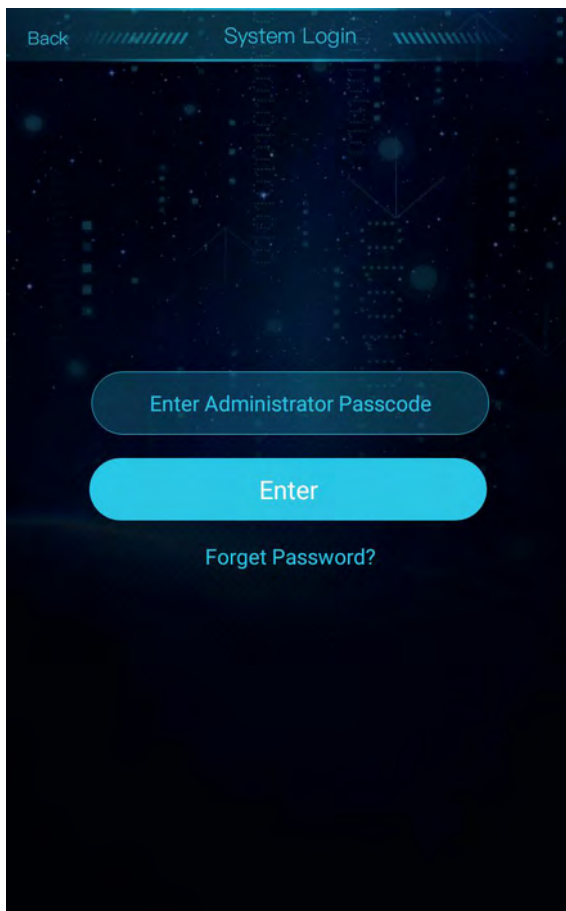


2.3 Configuration

1 Access the system settings

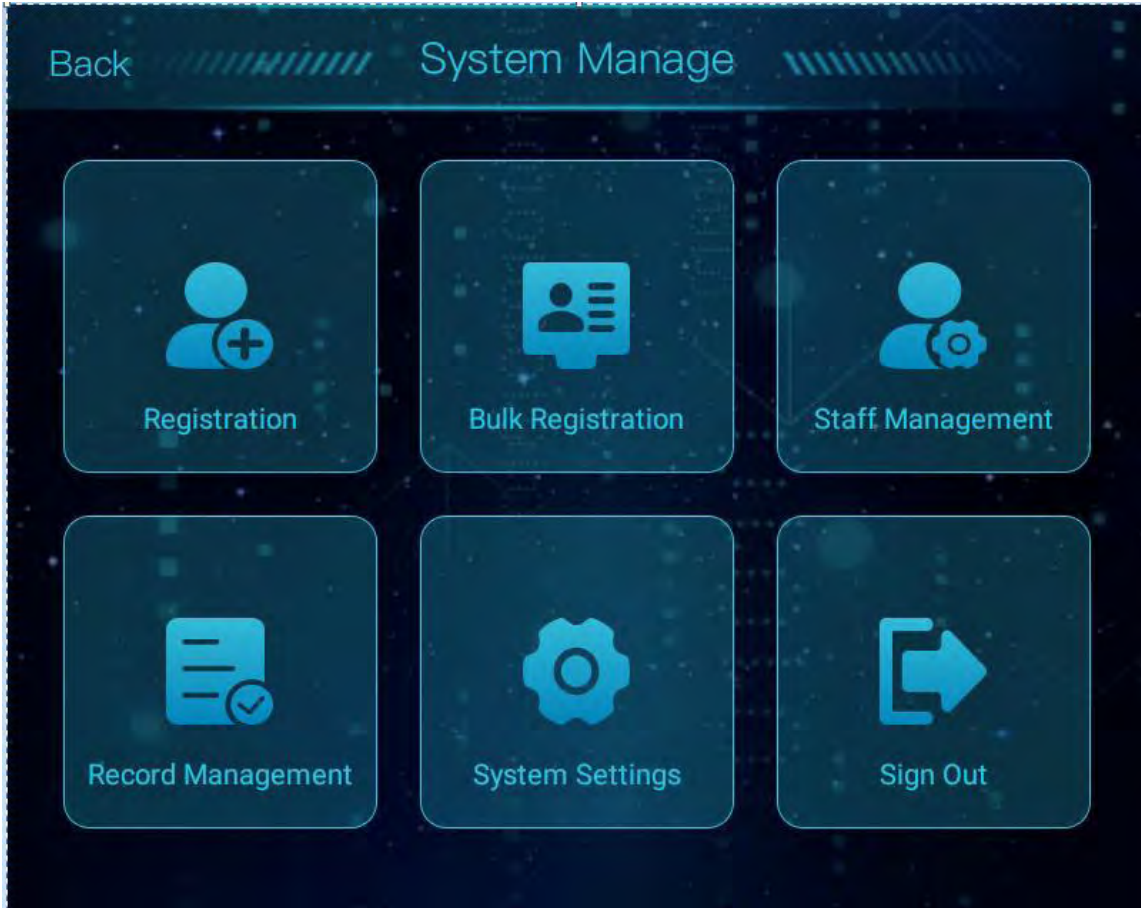


The “face ID pass” app is set auto run after power up, double tap the blue bar (where time is shown) on the screen to get the following screen pop-up.



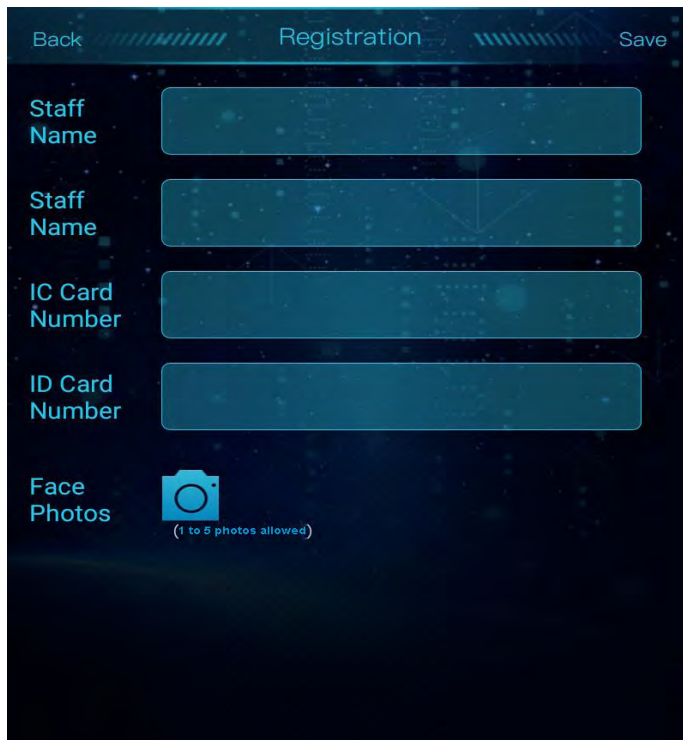
Type in the admin password to access system settings

System settings



2. Registration

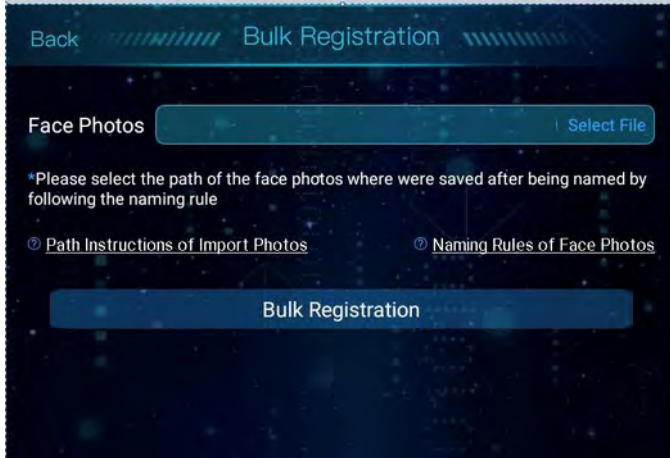
Go to Registration to add "staff name", "staff number", "IC card number", "ID card number", And upload Face ID photos (1-5 photos) and then click on "Save" to finish the registration



3 Bulk Registration

Admin could upload files for bulk users registration;

Firstly, Please Understand Rules on face photos record path & file names:

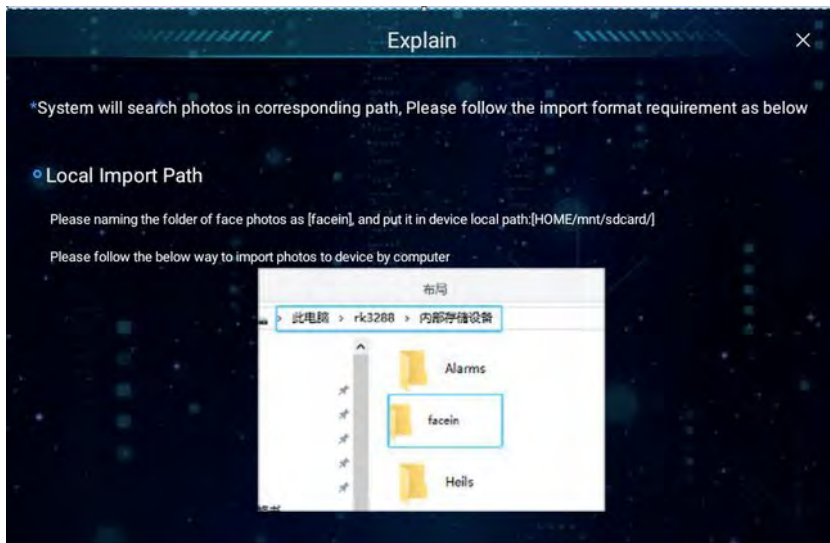


File path: it means the system will fetch photos from the designated path.

While the path could be local path as well as external device path.

3.1 Local Path

Please name the folder of face photos as "facein", and put it in device local path 【 HOME/mnt/sdcard/ 】



3.2 External Device Path like USB Drive

Please name the folder of face photos as "facein", and put it in the root of the USB drive



3.2 Naming rules of the face photos files

The app will search photos from the designated path if the photo file names comply with the preset Rules.

3.2.1 Quality requirement of face photos

>file size less than 5MB

>Format supported, only PNG or JPG;

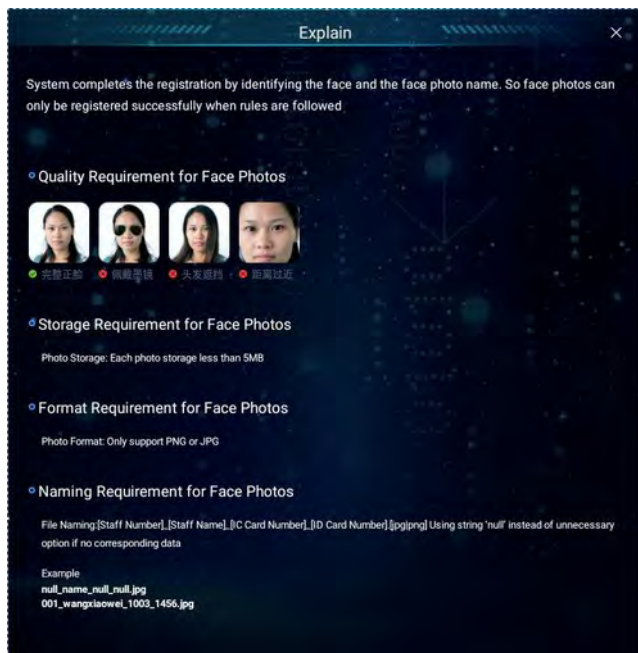
>Naming requirements:

File Naming:[Staff Number]_[Staff Name]_[IC Card Number]_[ID Card Number].[jpg|png]

Using string 'null' instead of unnecessary option if the corresponding data is not available

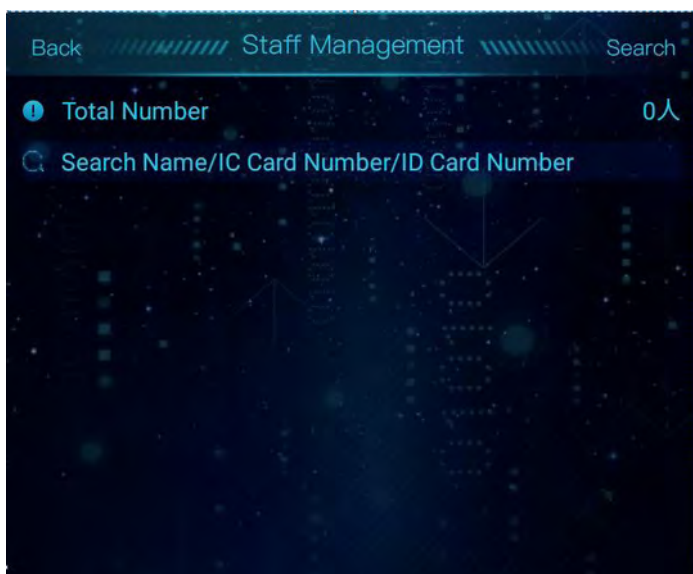
e.g.

null_name_null_null.jpg\n001_wangxiaowei_1003_1456.jpg



4. Staff Management

Search staff by name/IC card number / ID card number



5. Record Management

Via specify the data range, admin could check and view the visitor pass & recognition records During the selected period.



6. System Settings

6.1 Device information, see below



6.2 Identification settings

6.2.1 Prompt of Identify Success On/Off

6.2.2 Debug Mode

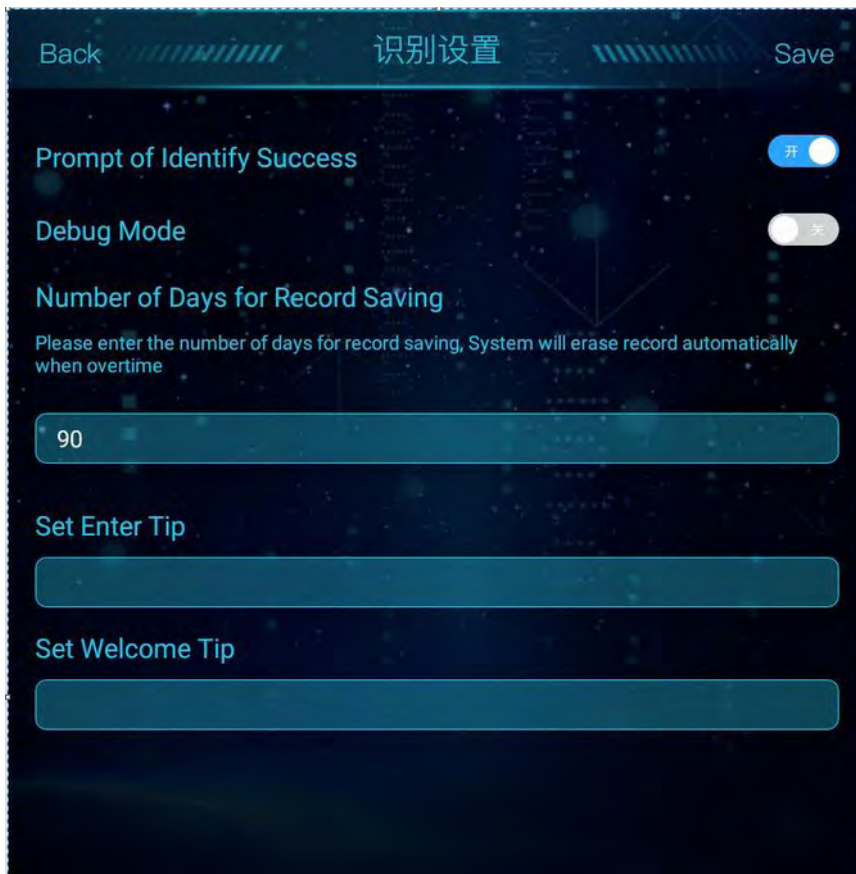
6.2.3 Number of days for record saving

Means the pass records will be kept within the set time range, if it is longer than that, The records will be erased (only the latest records are kept).

6.2.3

Enter tip: set the voice reminder to engage visitor for pass

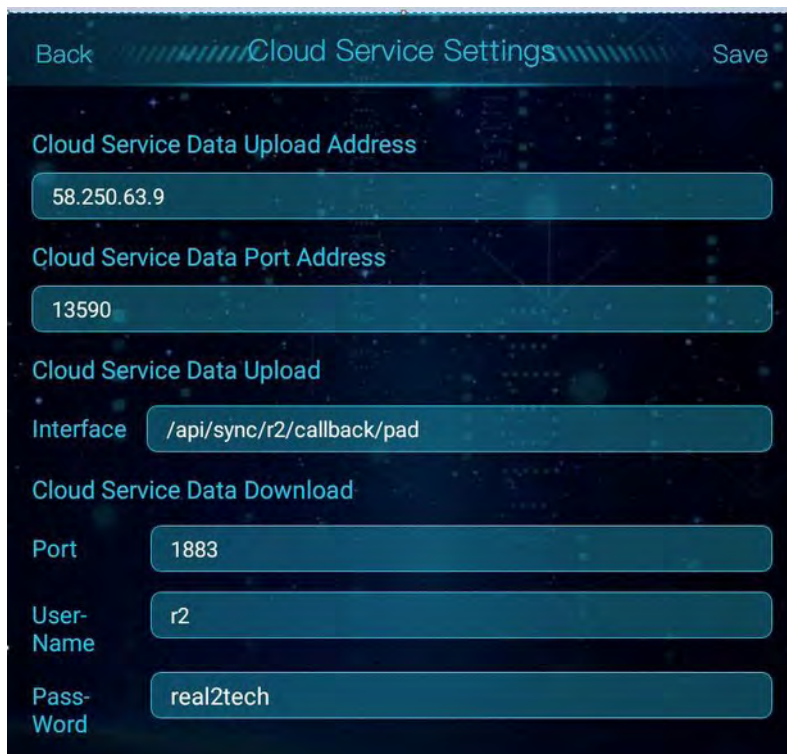
Welcome tip: friendly welcome voice



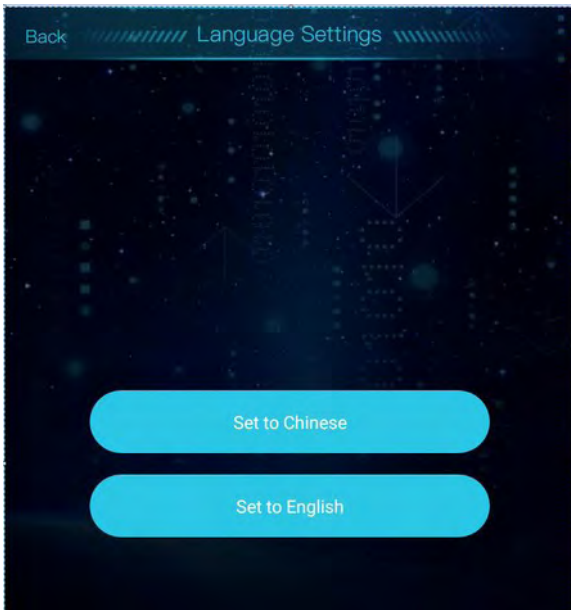
7. Cloud server/Lan server setting and data integration

Check below for data upload server, communication port and interface settings.

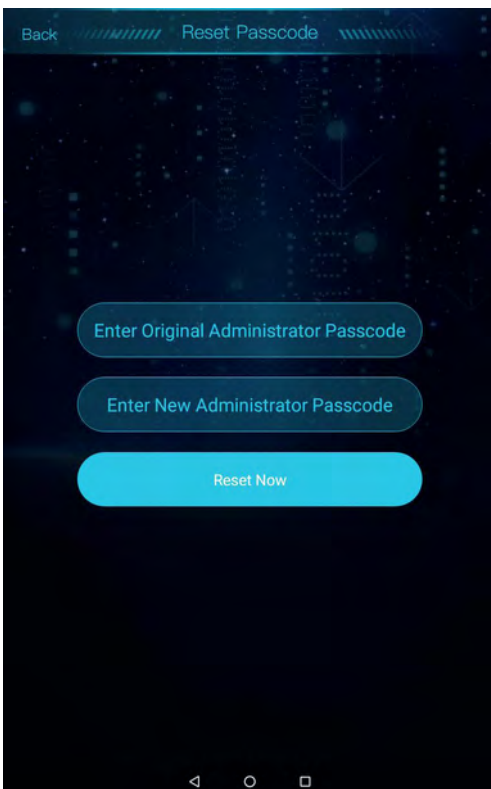
In addition, the device could also get data from the download server, see the settings below.



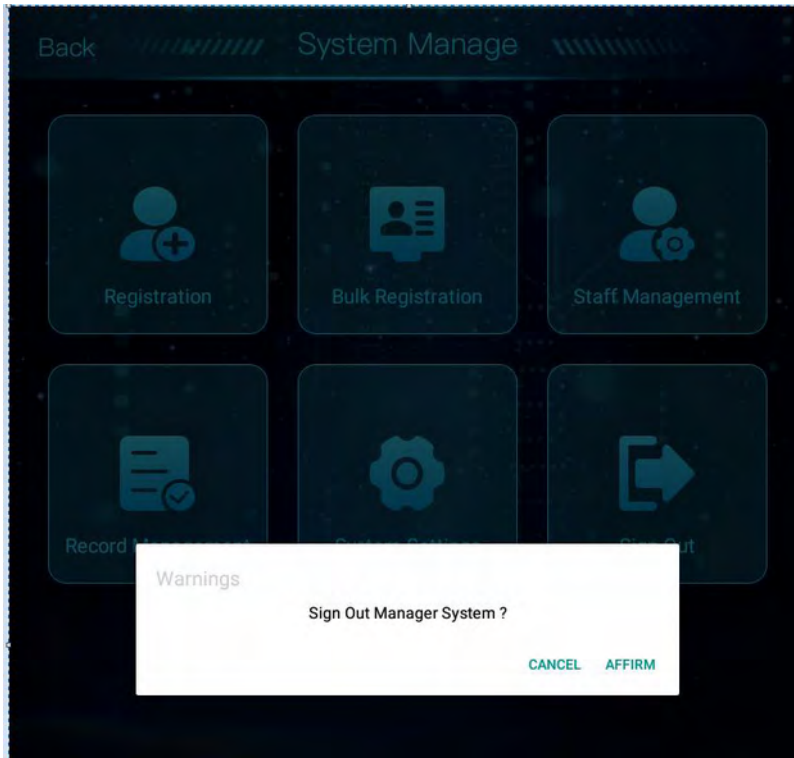
Language settings



Reset Password



Sign out



Lan Server PC management software

The system works in lan mode where a Lan server is needed, PC based server kit will be installed.

While a third information display could be engaged via running the display apk on the screen obtaining Device ID & IP address info, the visitor pass through data will be displayed with different data structure. API for rules engines available via project.

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