

BA5300

5" Compact Facial Recognition Terminal



Small in Size, Big on Security. The Aratek BA5300 is a compact 5-inch facial recognition terminal delivering high-performance access control in areas with limited installation space. Its sleek, wall-mounted IP65-rated design makes it ideal for narrow indoor or outdoor mounting locations like door frames, wall panels, elevator entrances, or building columns. Powered by AI-driven facial recognition, the BA5300 ensures fast, accurate authentication even in high-traffic environments. It supports multi-factor authentication, including optional fingerprint recognition, contactless card reading, and barcode scanning—providing flexible security tailored to your needs. Running on Android 14 and backed by a comprehensive SDK, the BA5300 offers developer-friendly flexibility for seamless customization and system integration. Whether upgrading entry points or securing tight installation spaces, the BA5300 is the compact, versatile, and powerful solution built to perform.



Compact Design

Compact and modern design enables seamless installation in tight spaces like door frames, elevator panels, and narrow walls.



AI-Powered Facial Recognition

AI-Powered facial recognition with high-speed matching and $\geq 99.72\%$ accuracy.



Multi-Factor Authentication

Supports facial, optional fingerprint recognition, contactless card reading, and barcode scanning for tailored security.



IP65 Protection

Engineered to withstand dust, moisture, and harsh weather for reliable indoor and outdoor performance.



Liveness Detection

Detects liveness to ensure user presence and prevent spoofing attempts.



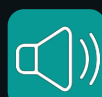
Android-Powered OS

Powered by Android 14 with a comprehensive SDK for seamless integration and customization.



Enhanced Security & Encryption

Integrated hardware encryption and optional tamper protection safeguard data and device.



Dual Microphones

Delivers clear audio interactions during authentication, ideal for busy or noisy environments.

BA5300 Facial Recognition Smart Terminal

Basic

Operating System	Android 14
Processor	Quad-Core, 2.0GHz CPU
Memory (RAM+ROM)	3G+32G, 2G+32G or 4G+64G or 6G+128G (Option)
Display	5.5" TFT, touch screen
Resolution	720*1280 pixels
SD Card	Support
Charger	Input: 100-240V, 50/60hz, Output: 12V/2A
Weight	0.6kg
Dimension (W*L*H)	109*203*24 mm
Temperature and Humidity	Operating: -10°C~50°C, 0%~95% Storage: -20°C~65°C, 0%~95%
Ingress Protection	IP65
Temperature Detection	Option

Facial Recognition

Camera	1080P Dual Camera with fill light
Distance	0.3~1.5m
Accuracy	≥99.72%
Response Time	<1s
Mask Detection	Support
Liveness Detection	Support

Fingerprint Recognition (Option)

Sensor Type	Capacitive, FBI-PIV FAP 10
Sensing Area (W*L)	12.80*18.0 mm
Image Size	256*360 pixels

Credential Reading

Contactless Reader	Support
Barcode Reader	Software decode

Communications

3G/4G	Option
Wi-Fi	802.11 a/b/g/n/ac
Bluetooth	BT 5.0
Interfaces	Relay, RJ45, TTL, WG, USB 2.0

Other

Tamper Protection	Option
Installation	Wall-mounted



Applications

- Access Control
- Time and Attendance
- Visitor Management

Aratek Biometrics Co., Ltd.

10F, No. 131, Songjiang Road, Zhongshan District, Taipei City 10491, Taiwan

+886 2-2501-0001

sales@aratek.co

www.aratek.co

©Copyright 2025, Aratek Biometrics Co., Ltd.

Aratek logo is a registered trademark of Aratek or a related company. All other product and company names mentioned are used for identification purposes only and may be the trademark of their respective owners.

All specifications are subject to change without notice. All rights reserved.

Face Recognition Terminal BA5300

Quick Start Guide V1.0

ARATEK BIOMETRICS CO., LTD.

Important Statement

The following documents contain the private information of **Aratek Biometric Co., Ltd.** (hereinafter referred to as **Aratek**). The information is accurate and reliable, without the permission of the Company's management, third parties may not use or disclose arbitrary; of course, and any unauthorized copying without authorization, special conditions, limitations or informed of this information Modifications are all infringements.

At any time, without notifying any parties, Aratek has the right to make changes, additions, deletions, improvements and any other changes to the company's products and services. In the use of the company's products, Aratek does not bear any responsibility or obligation; and third parties shall not infringe any patents or other intellectual property rights in the use.

The sales of all products are subject to the sales terms and conditions of the company in the order acknowledgement. The company uses technical methods such as testing, tools, and quality control to support a certain degree of assurance that the relevant performance of the product meets the required specifications. Except for clear government written requirements, it is not necessary to perform all parameter tests for each product.

Except for Aratek's logo design, all other trademarks or registered trademarks belong to their respective owners.

Aratek Biometric Co., Ltd. 2003–2025© copyright. Copyright, infringement must be investigated.

Contact Us: <http://www.aratek.co/>

Address: T2-A2-a, GaoXin Industrial Village, No.22 GaoXin South Seventh Road, Nanshan District, Shenzhen, Guangdong, China

Postcode: 518057

Telephone: 0755-26719975

Table of contents

1. Safety instructions	1
2. Product instructions	4
3. Product installation	8
4. Network connection	10
5. The use of triface App	11
6. System settings.	19
7. FAQ	35

The content in this document applies to Triface Manager of Aratek Biometric Co., Ltd.
This document is mainly for software developers, but not limited to developers.

1. Safety instructions

Please read this safety instructions before you use the product to prevent injury to yourself and others and to prevent property damage. The term 'product' in this manual refers to the product and any items provided with the product.

This manual is only for reference and do not have any commitment. The product appearance and function should be based on the actual object. We reserve the right to modify any information in this document at any time. The content of the modification will be added to the new version of this document.

1.1 Installation safety instruction

Do not install or repair the product arbitrarily.

- This may result in electric shock, fire, or product damage.
- Damages caused by any modifications or failure to follow installation instructions may void the warranty.

Do not install the product in a place with direct sunlight, moisture, dust, soot, or a gas leak.

- This may result in electric shock or fire.

Do not install the product inside the sealed enclosure when installing it outside.

It will increase the internal temperature of the case, which may cause electric shock, fire or malfunction.

Do not install the product in a location with heat from an electric heater.

- This may result in fire due to overheating.

Do not install the product in a location where it will be affected by radio frequencies.

- This may result in product damage

Do not install the power supply cable in a location where people pass by.

- This may result in injury or product damage.

Install the product in a dry location.

- Humidity and liquids may result in electric shock or product damage.

Install the product in a well-ventilated and cool place away from direct sunlight to prevent overheating.

Make sure that the cable cover is completely closed after connecting it to the product to maintain the water resistant and dust-resistant features (IP65 rating).

- The product may malfunction if the water-resistant and dust-resistant features are damaged

1.2 Operation safety instruction

Keep the product dry.

- Humidity and liquids may result in electric shock, fire, or product damage.

Do not use damaged power supply adaptors, plugs, or loose electrical sockets.

- Unsecured connections may cause electric shock or fire.

Do not bend or damage the power cord.

- This may result in electric shock or fire.

Do not disconnect the power supply while updating the firmware of the product.

- The product may malfunction.

Do not throw and knock equipment. It can avoid equipment internal circuit boards is destroyed.

If device is not used for a long time, please turn off the power.

2. Product instructions

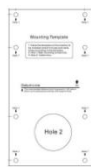
2.1 Product overview

The smart device terminal BA5300 face recognition access control is develop by Aratek, which integrates face recognition, fingerprint recognition and access control solution together. It's equipped with a high dynamic range camera which can support live facial recognition powered by Aratek algorithm. It is widely used in community, school, bank, and government as gate control and time & attendance.

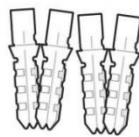
2.2 Component



BA5300 x1



Mounting Template x1



PVC Anchor x4



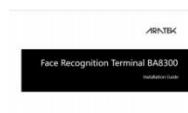
Screw x4



Adapter x1



Screwdriver x1

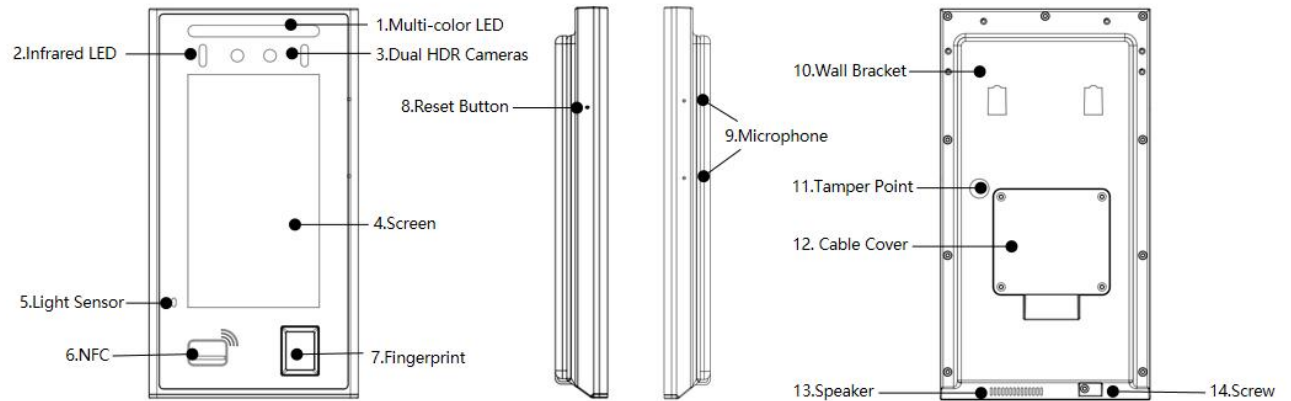


Installation Guide x1

Please check the components before installing the product.

2.3 Wall mounted version

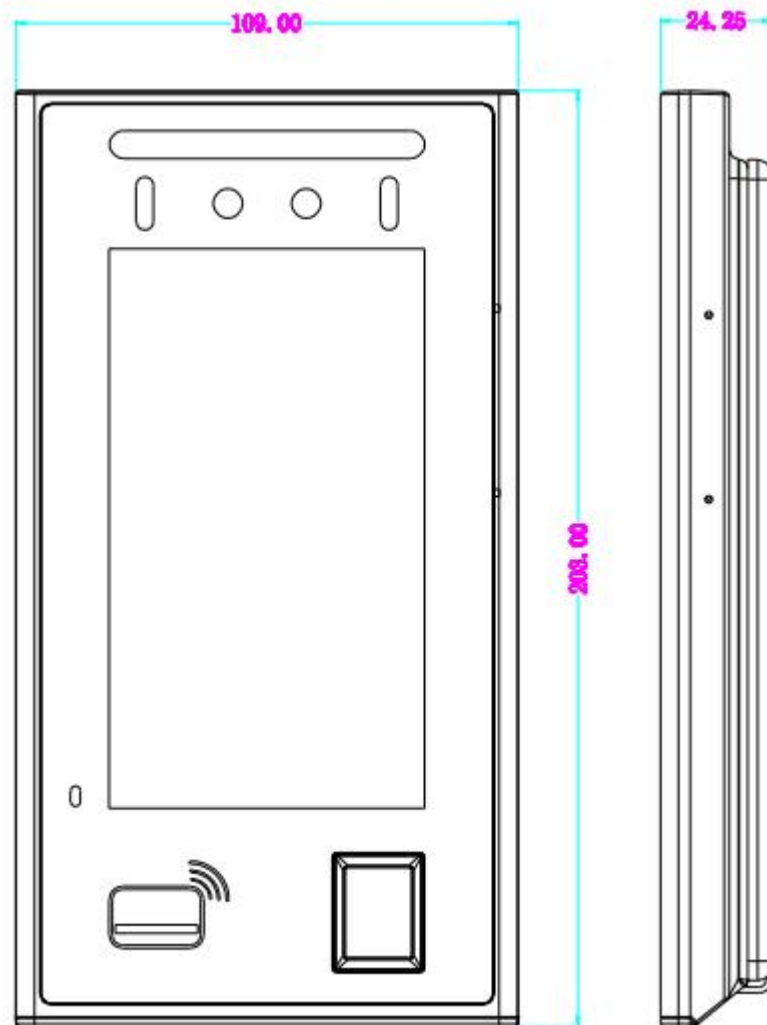
The name and function of each part of Wall mounted version as follows.



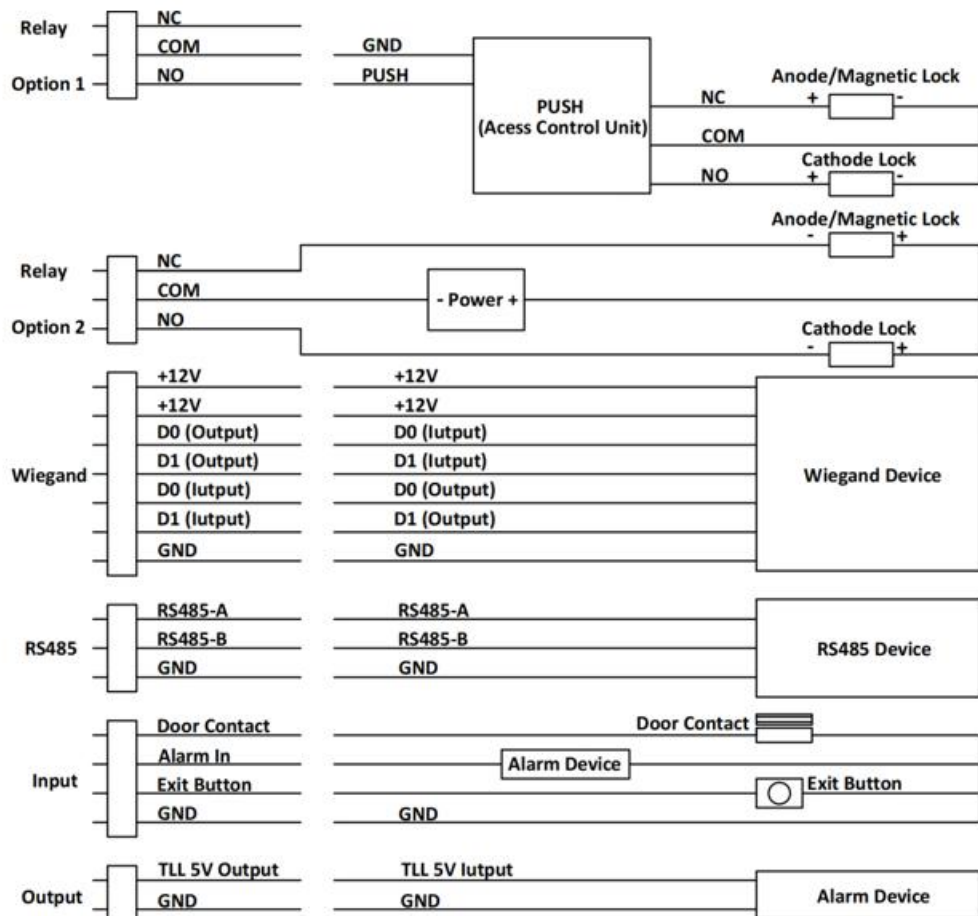
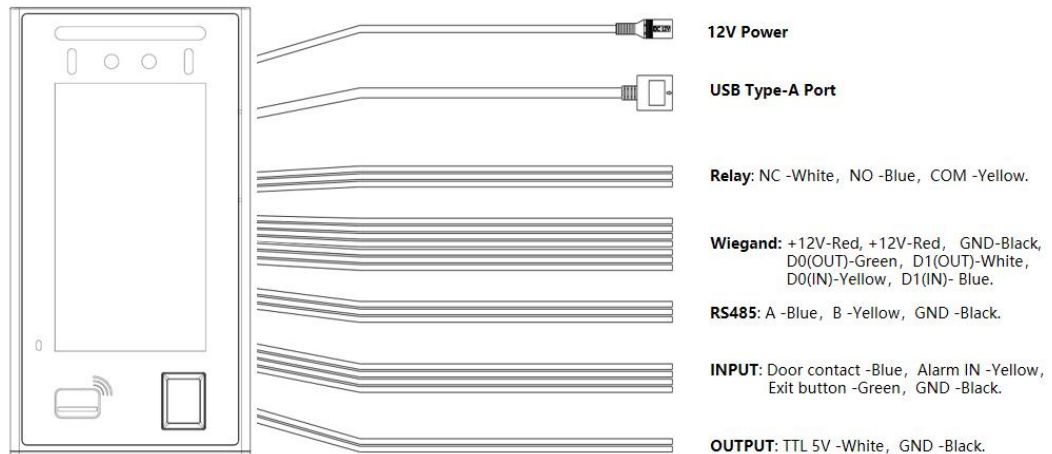
Part list of Wall mounted version

No.	Name	Function
1	Multi-color LED	Fill-in Light
2	Infrared LED	Fill-in Light
3	Dual HDR Cameras	Face recognition
4	Screen	5.5" IPS touch screen
5	Light Sensor	Sense ambient brightness
6	NFC	Contactless card Reader
7	Fingerprint	Fingerprint recognition
8	Reset Button	Reset the device
9	Microphone	Collect sound
10	Wall Bracket	Wall bracket
11	Tamper Point	Tamper detect point
12	Cable Cover	Lock device and support bar
13	Speaker	Play sound
14	Screw	Screw for wall bracket

The size of Wall mounted version as follows.



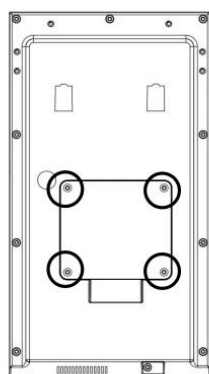
2.4 Cable and interface



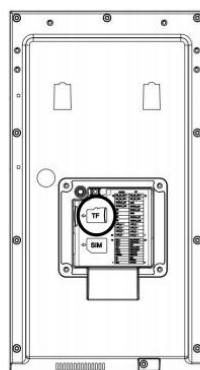
3. Product installation

3.1 TF card installation

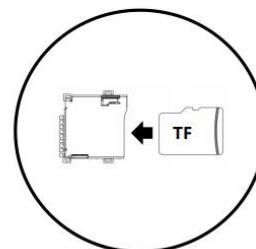
Notice: Please skip this step if you do not need TF card function.



① Take out the cable cover after removing 4 screws.



② According to the prompt, insert the TF card in the correct direction accordingly.



③ Install back the cable cover and fix it by 4 screws.

3.2 Wall mounted version installation



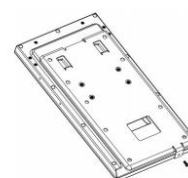
① Paste the mounting template onto the wall, and drill holes according to it.

Notice:
The optimal height for installing device is 140 cm.

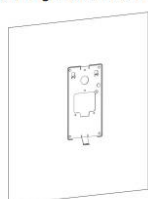


Wire hole

② Drill 4 holes and insert 4 PVC anchor. And please drill a big wire hole if you want to hide the wires.



③ Remove a screw on the bottom of device and take out wall bracket.



④ Fix the bracket on the wall by using 4 screws.



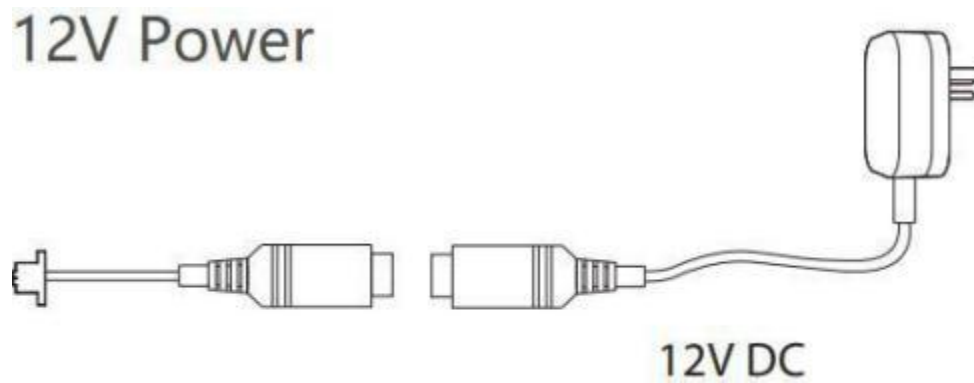
⑤ Refer to Section 5.4 for the wire connection.



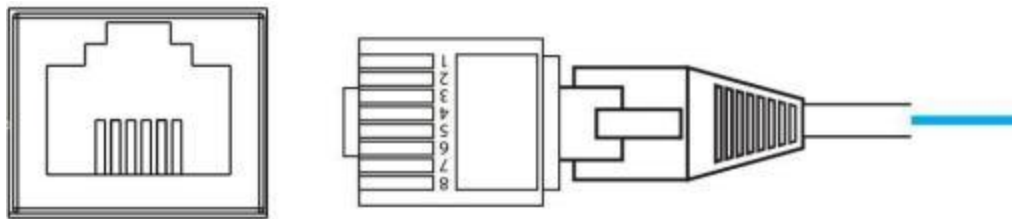
⑥ Install the device on the wall bracket and fix it with a bottom screw.

3.3 Wire connection

- 12V DC supply connection



- LAN connection



- RS485/Realy/Wiegand/ input/ Output Connection
Please refer to the section 2.4.

4. Network connection

There are two methods of network connection, you can choose the one you prefer.

Option-1. LAN connection

Please refer to section 3.3 for LAN connection.

Option-2. Wi-Fi connection

Settings > Network & Internet > Wi-Fi

PS. Must connect device to network before Activate Truface software service.

5. The use of Triface App

Please note that: If you need SDK to develop your own application, no need to care about this section 5.

5.1 App activation

Connect the device to the network after booting. Please refer to section 4.

5.2 Mode selection

There are two optional mode, please choose the appropriate mode according to your application scenario. And Click "Next" to continue.

- **Offline mode:** The device work as standalone, don't connected to the platform.
- **Online mode:** The device needs to be connected to the platform.

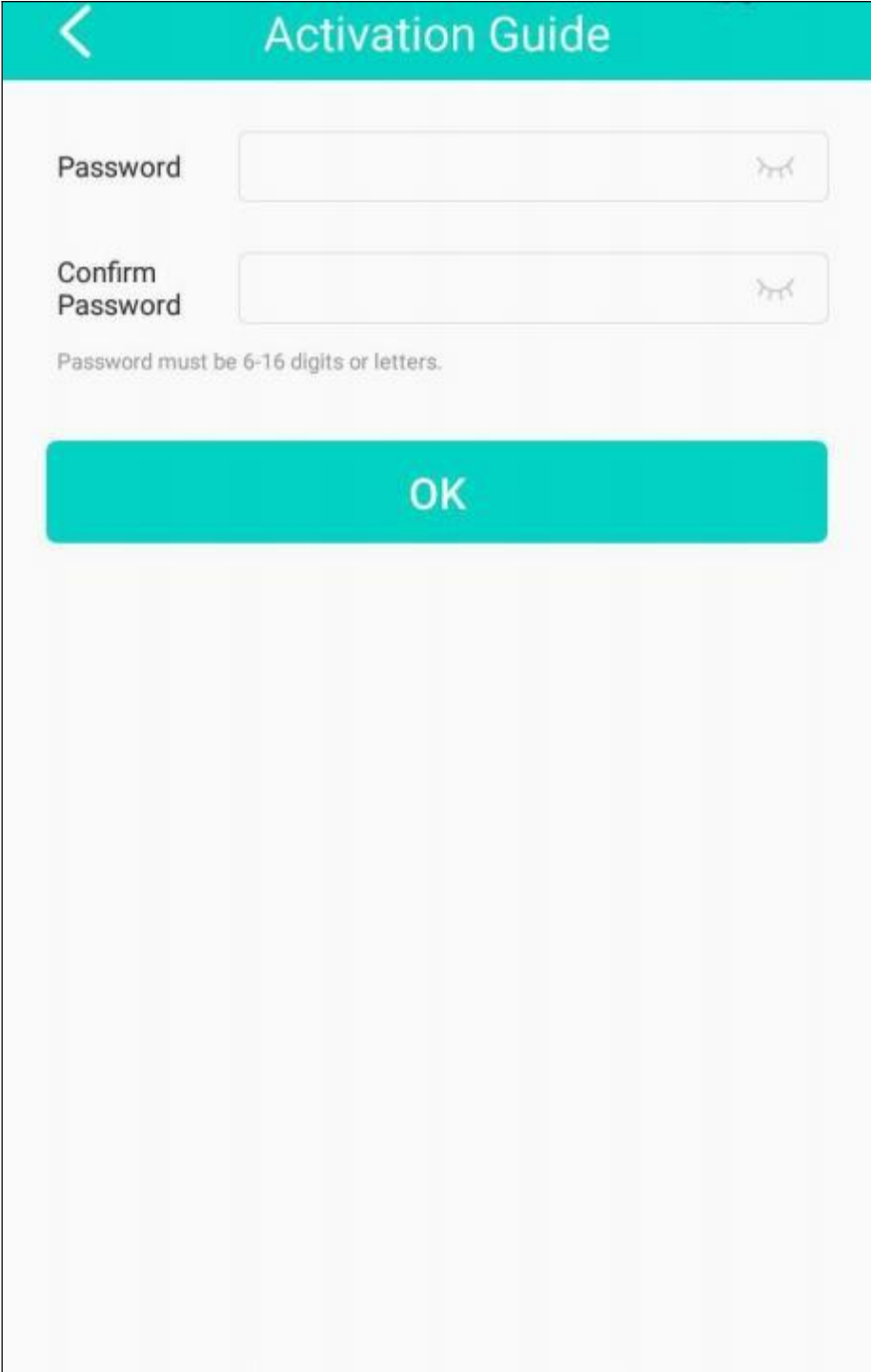


5.3 Configuration of offline mode

Please move to section 5.4 if you select Online mode.

5.3.1 Set the password

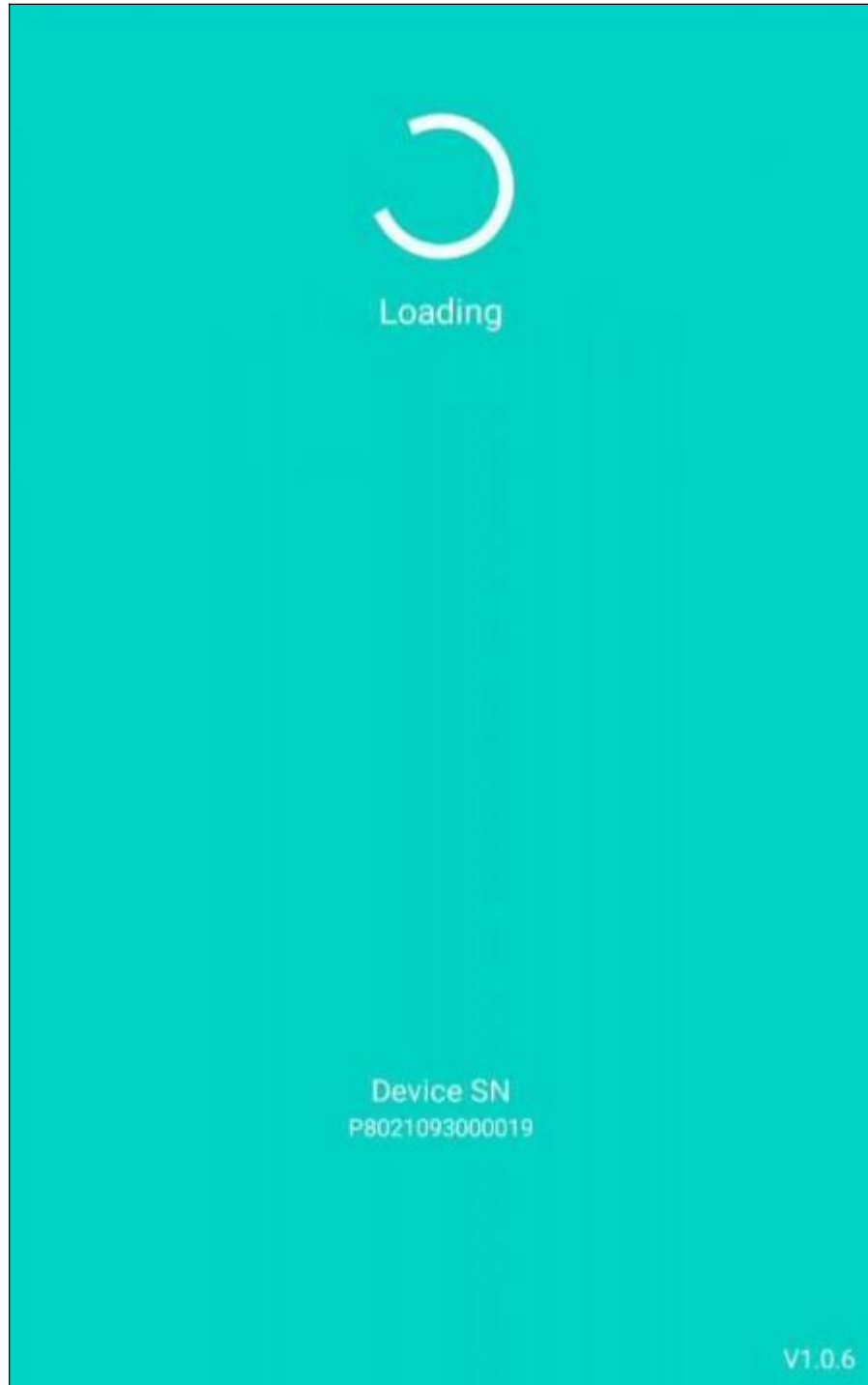
Enter the password and confirm the password, and click “OK” to continue.



The screenshot shows a mobile application interface titled "Activation Guide". At the top, there is a teal header bar with a white back arrow on the left and the title "Activation Guide" in white. Below the header, the background is light gray. There are two input fields: the first is labeled "Password" and the second is labeled "Confirm Password". Each field has a small eye icon on the right side to toggle visibility. Below these fields, a small gray text line states "Password must be 6-16 digits or letters." At the bottom of the form area, there is a large teal button with the white text "OK".

5.3.2 Activate truface services

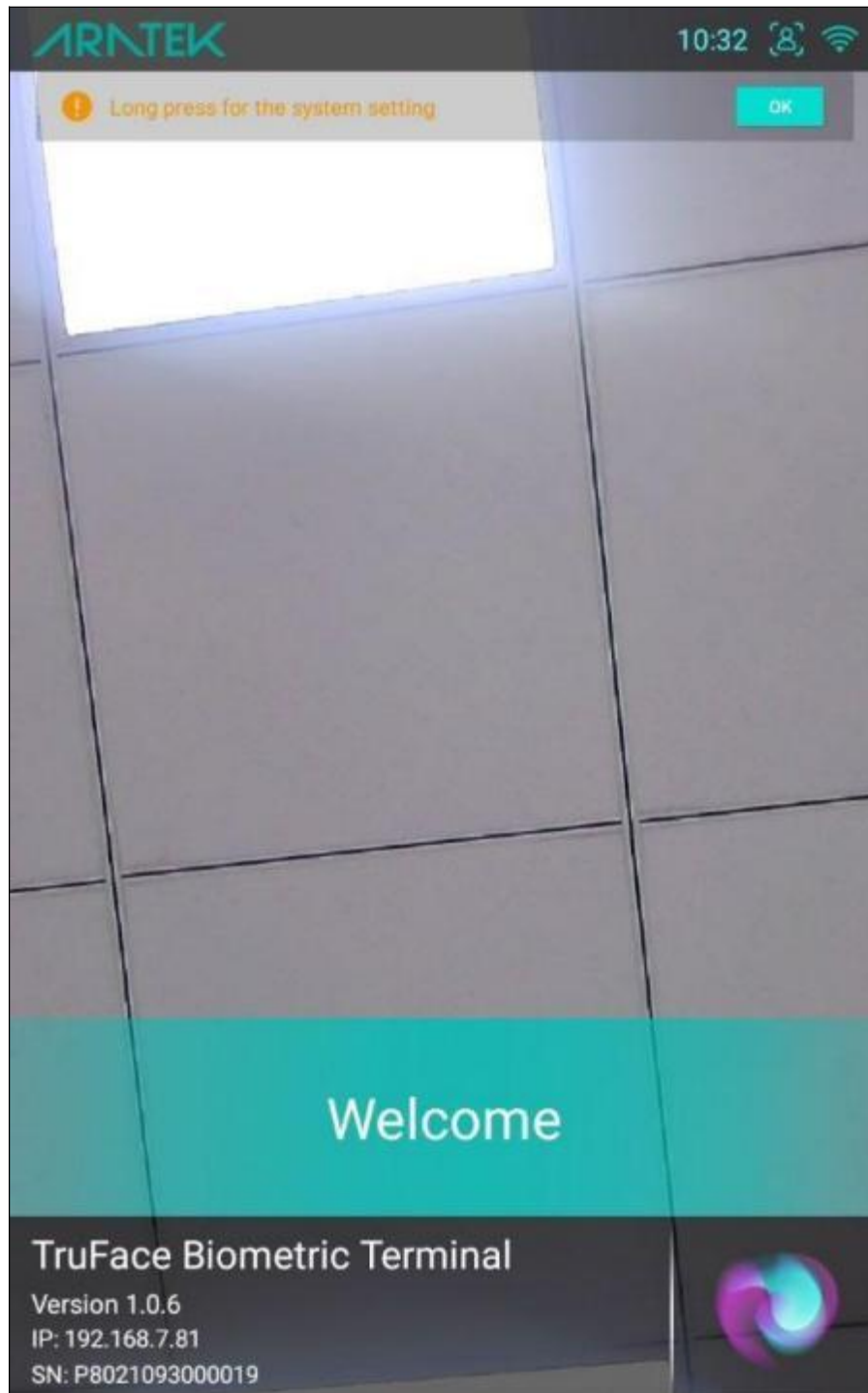
Please wait for activation to complete.



5.3.3 Activation complete

The activation complete when the below home page show up.

The home page is the normal working interface of the device, which is used for face recognition, scanning health code, swiping ID card and swiping fingerprint.



5.4 Configuration of online mode

5.4.1 Server configuration

Scan the QR code to automatically enter the server address or manually enter the server address.



How to get server address:

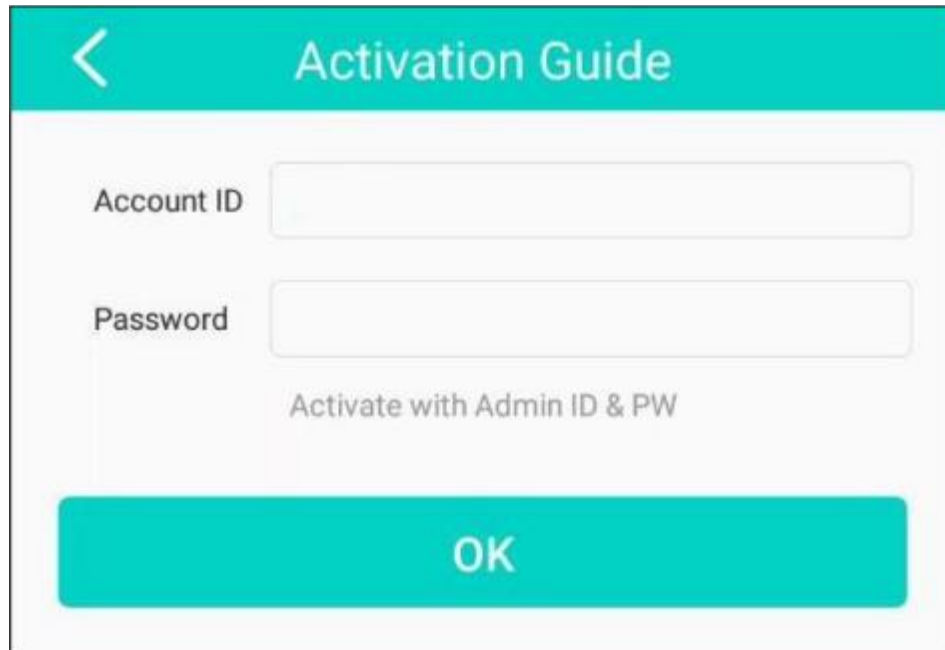
A. Open the browser, enter "local IP: 12100" in the browser address bar, such as 192.168.17.98:12100, open the platform, enter the account and password to log in to TruFace Manager. Click "Service Address" in the Personal Center to view the QR code of the server address. Click the "Scan" button and scan the QR code of the service address with the device camera to automatically fill in.



B. In the server address bar, directly enter "local IP: 12100".

5.4.2 Enter the activation account and password

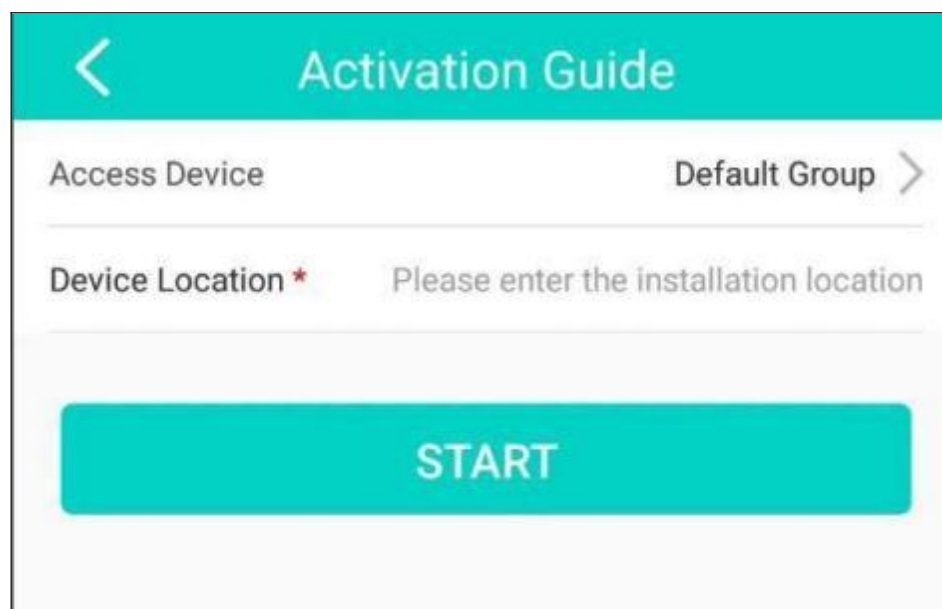
Enter the account and confirm the password, and click “OK” to continue.



The screenshot shows a mobile application interface titled "Activation Guide". At the top left is a back arrow icon. Below the title, there are two input fields: "Account ID" and "Password". Below the "Password" field, the text "Activate with Admin ID & PW" is displayed. At the bottom of the screen is a large teal button labeled "OK".

5.4.3 Select the bound channel

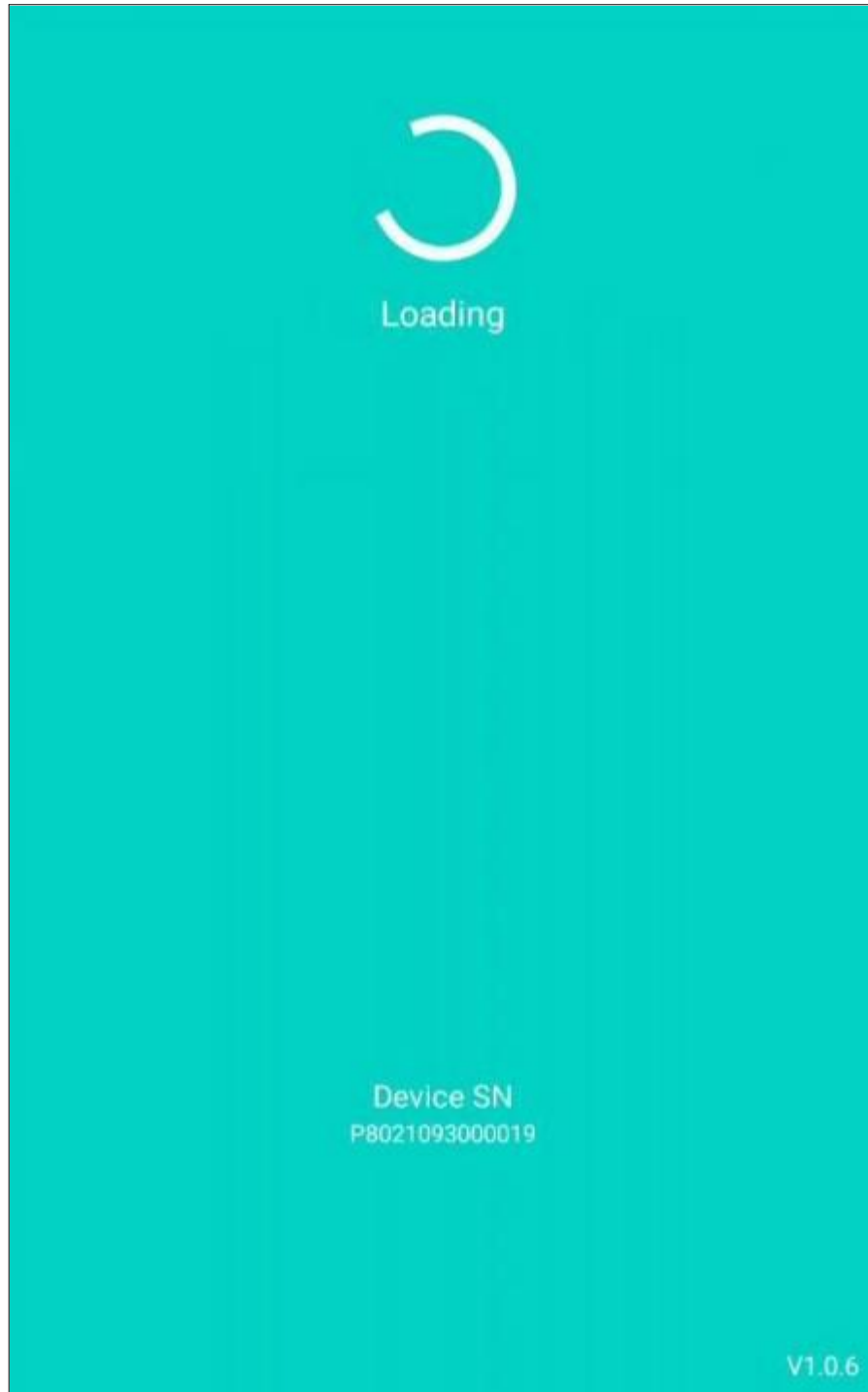
Select the channel and input the installation location of the device.



The screenshot shows a mobile application interface titled "Activation Guide". At the top left is a back arrow icon. Below the title, there are two fields: "Access Device" and "Default Group" with a right arrow icon. Below these is a field labeled "Device Location" with a red asterisk and the text "Please enter the installation location". At the bottom of the screen is a large teal button labeled "START".

5.4.4 Activate truface services

Please wait for activation to complete.

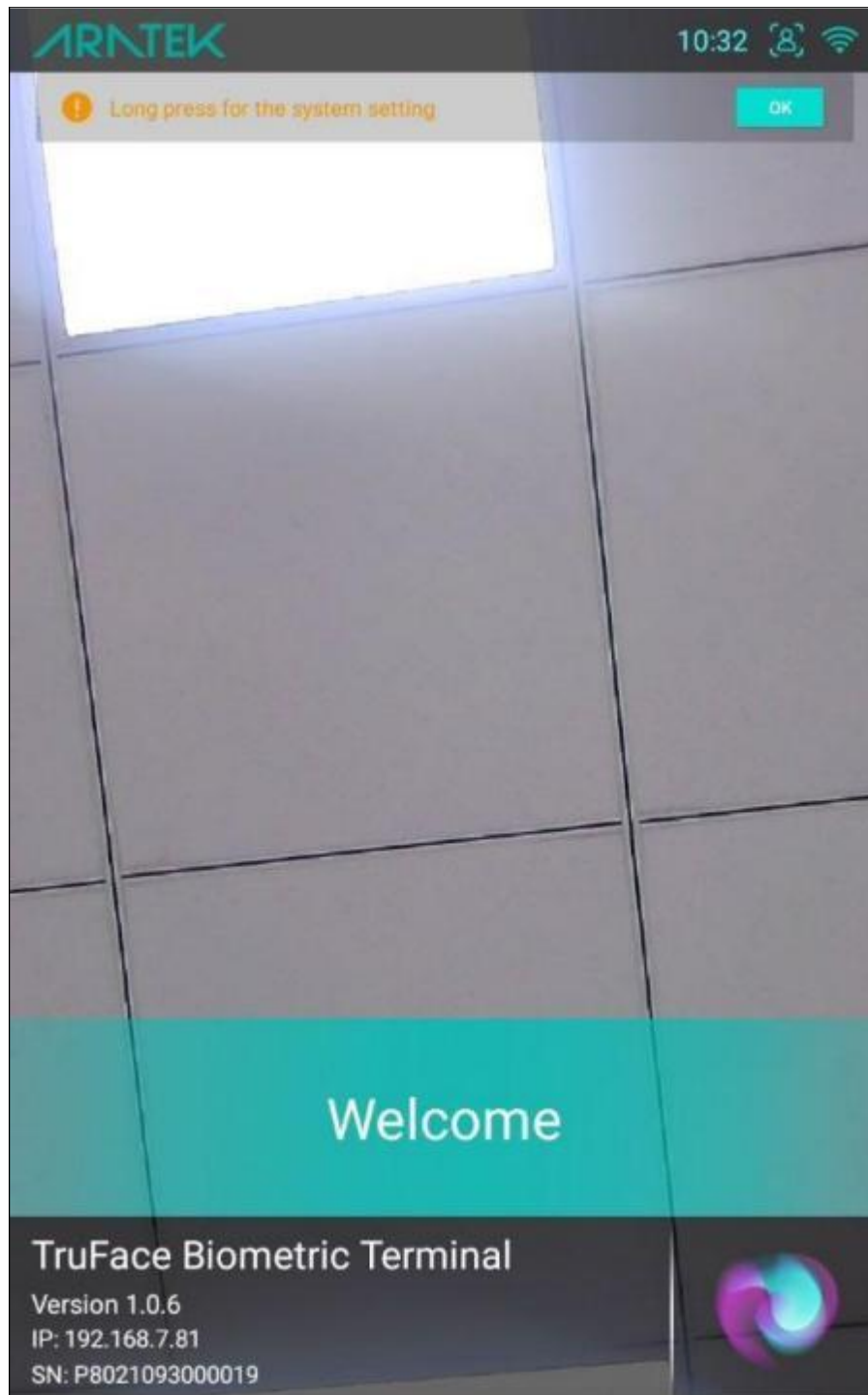


5.4.5 Activation complete

The activation complete when the below home page show up.

The home page is the normal working interface of the device, which is used for face recognition, scanning health code, swiping ID card and swiping fingerprint.

More details about using Truface App, please refer to “TruFace App User Manual”.

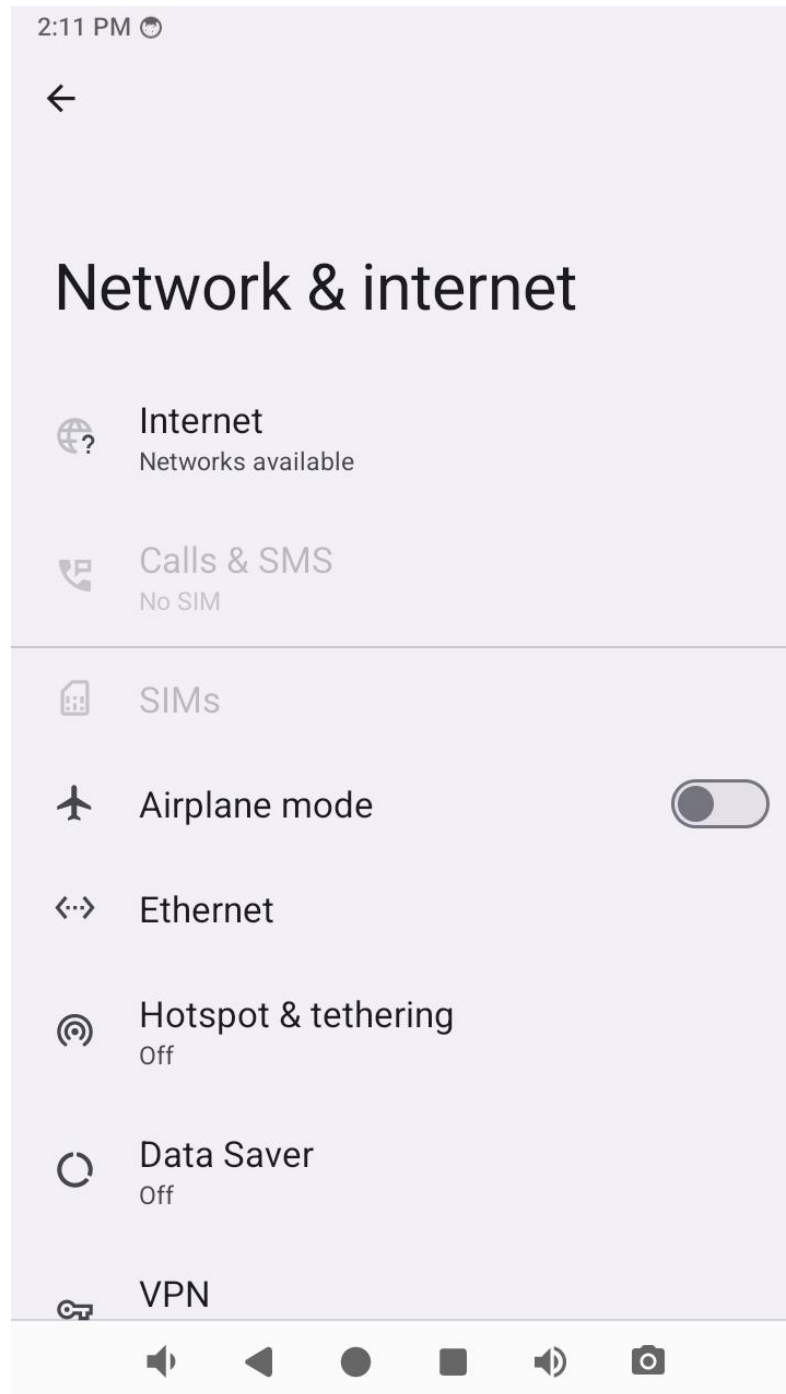


6. System settings.

The following commonly used setting options are for your reference.

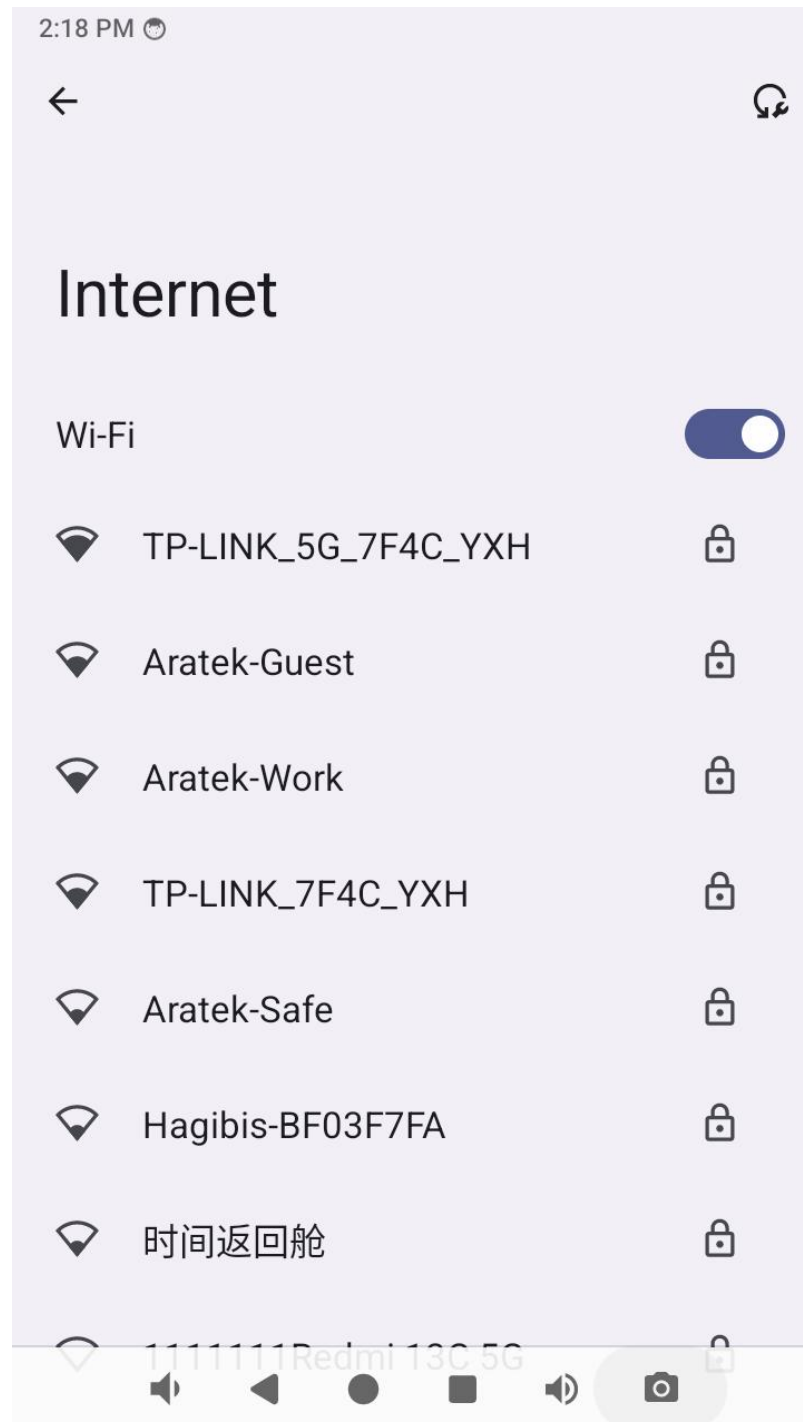
6.1 Network & Internet

Find it following the path “Settings > Network & Internet”.



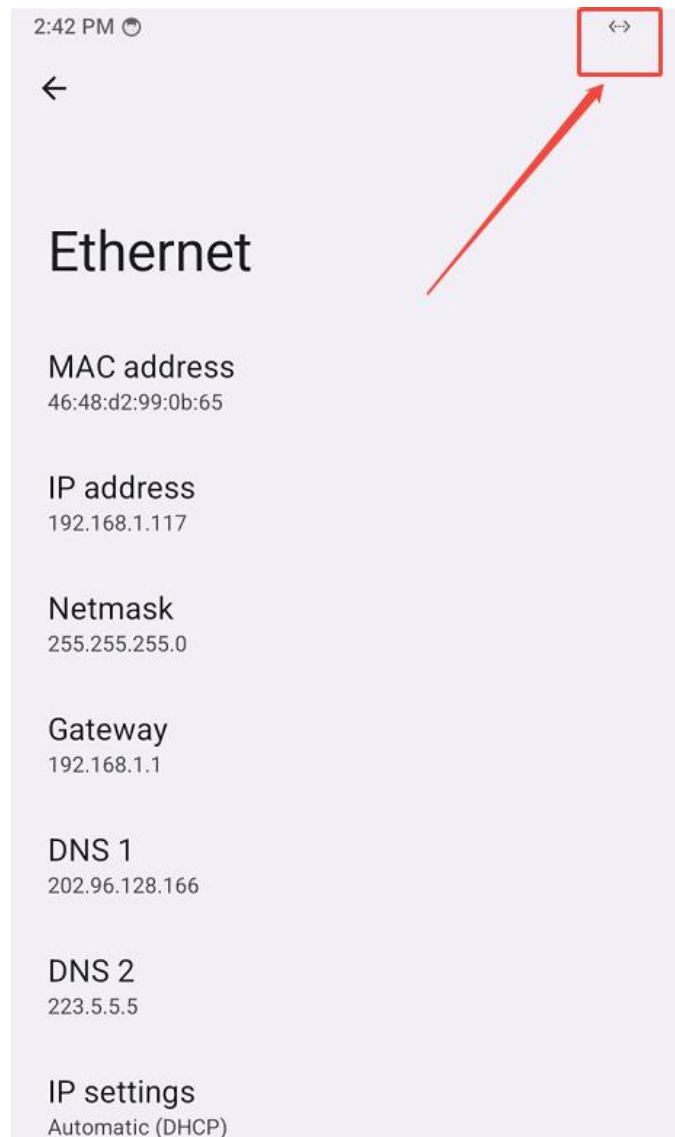
6.1.1 Wi-Fi connection

- Enable Wi-Fi following the path “Settings > Network & Internet > Wi-Fi”.
- Select and connect the desired Wi-Fi.



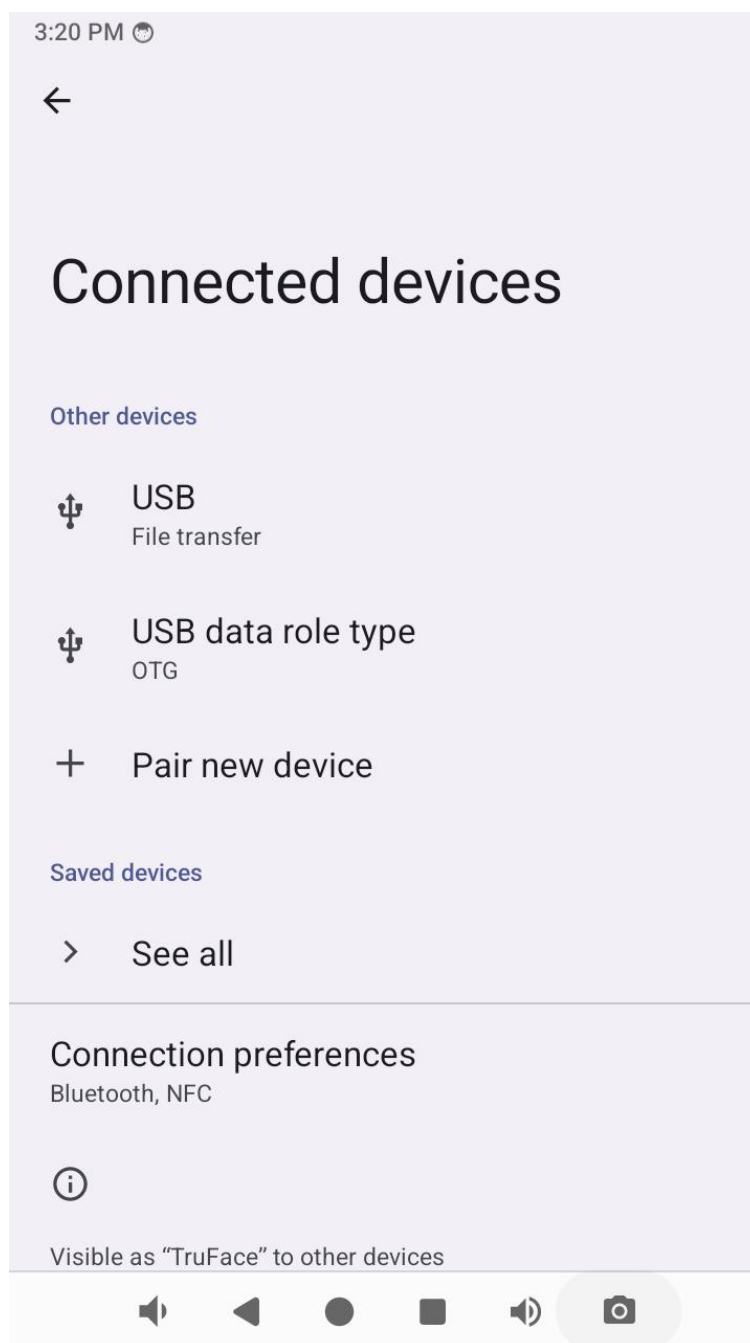
6.1.2 Ethernet connection

- Connect the network cable to the BA5300 device.
- Enter the Ethernet setting page following the path “Settings > Network & Internet > Wi-Fi”.



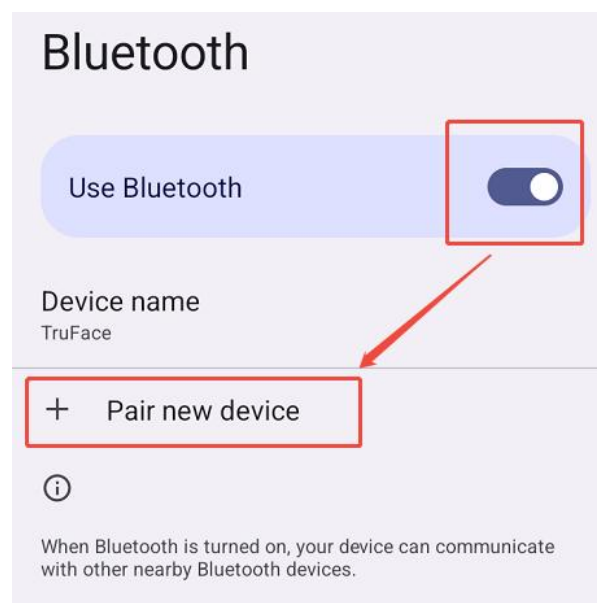
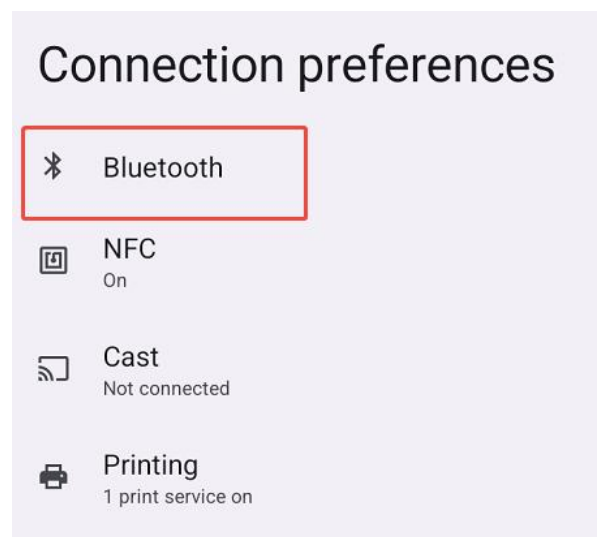
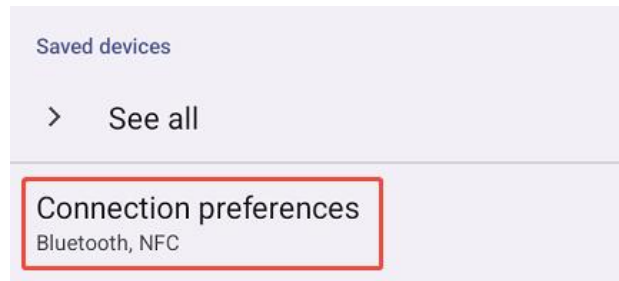
6.2 Connected devices

Find it by following the path “Settings > Connected devices”.



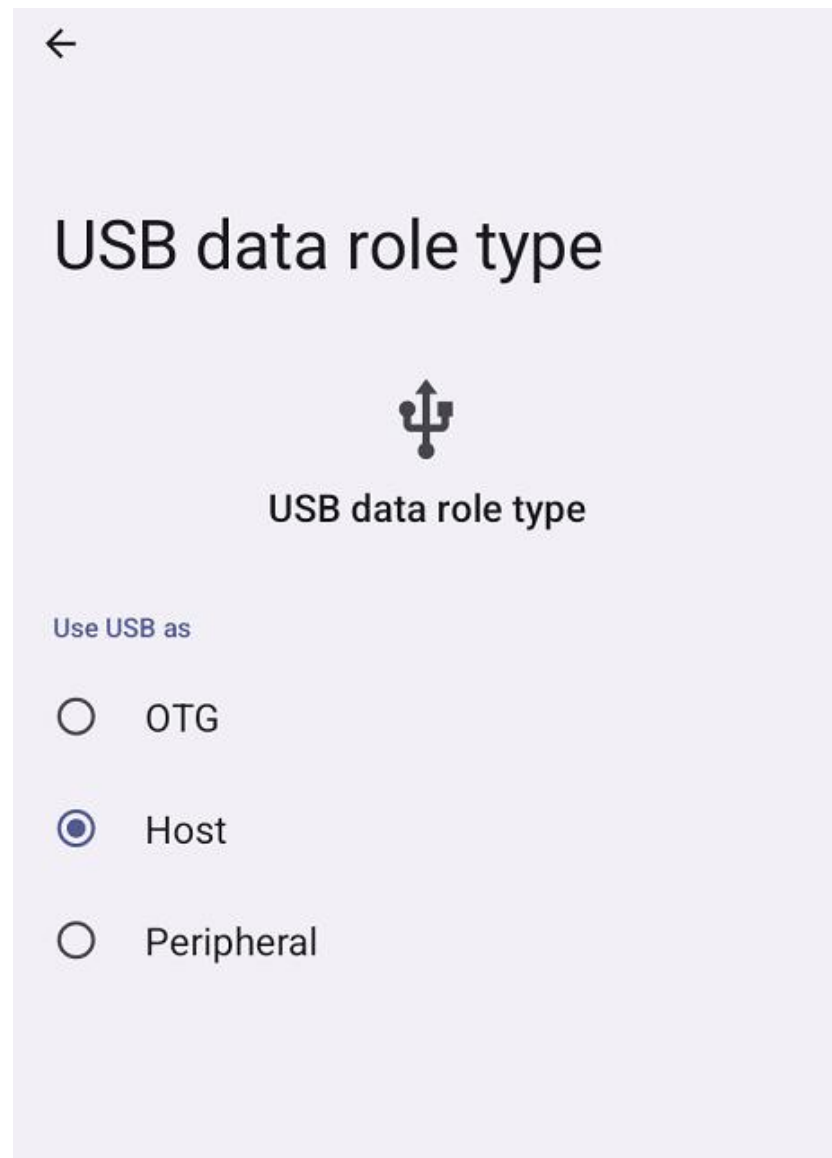
6.2.1 Bluetooth connection

- Enable Bluetooth following the path “Settings > Connected devices > Connection preferences > Bluetooth”.
- Select and connect the desired Bluetooth.



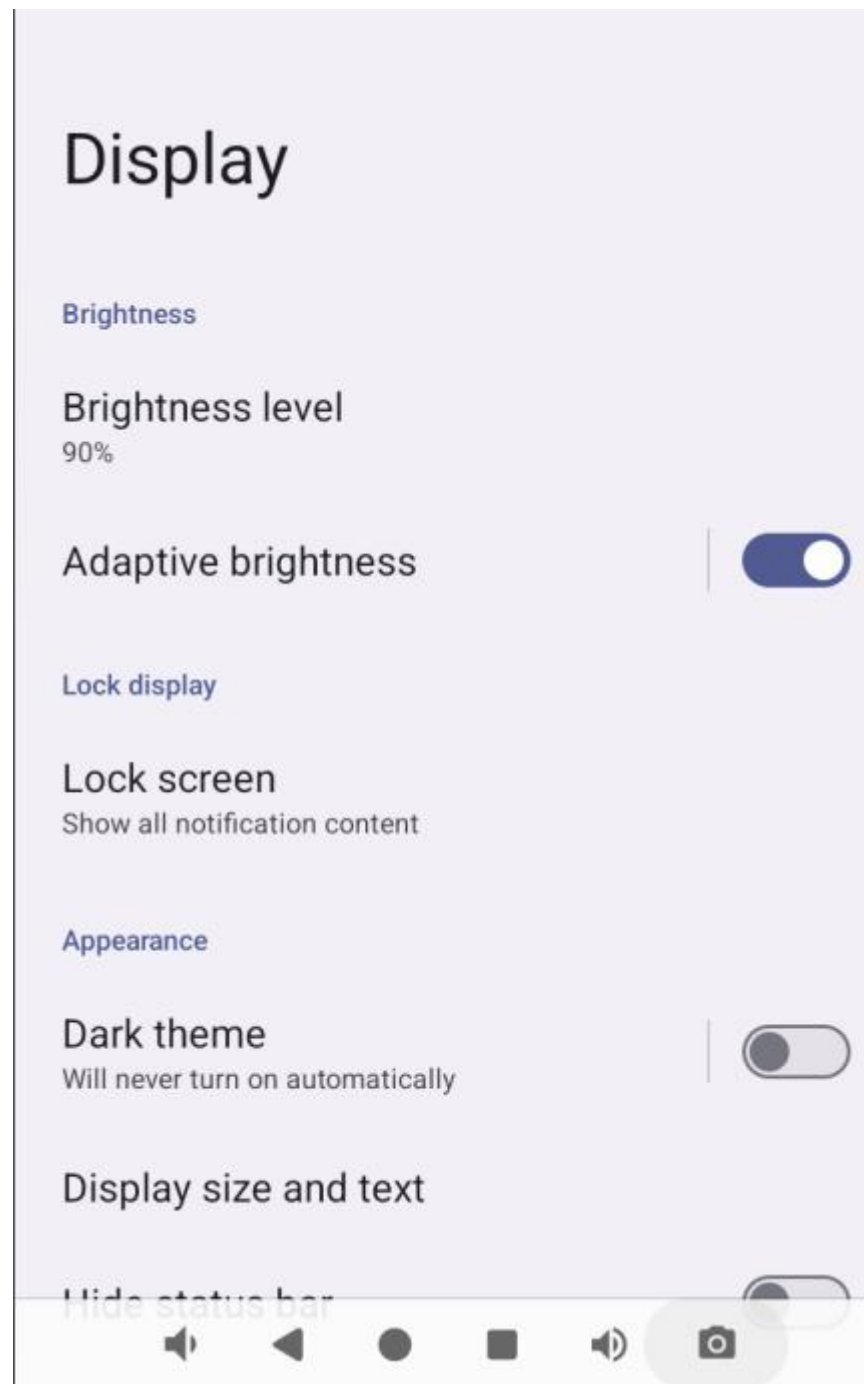
6.2.2 USB data role type

The USB port role type is set as Host mode by default. The U-disk can be recognized under Host mode. You should set it to **OTG** or **Peripheral** mode if you want to debug software applications.



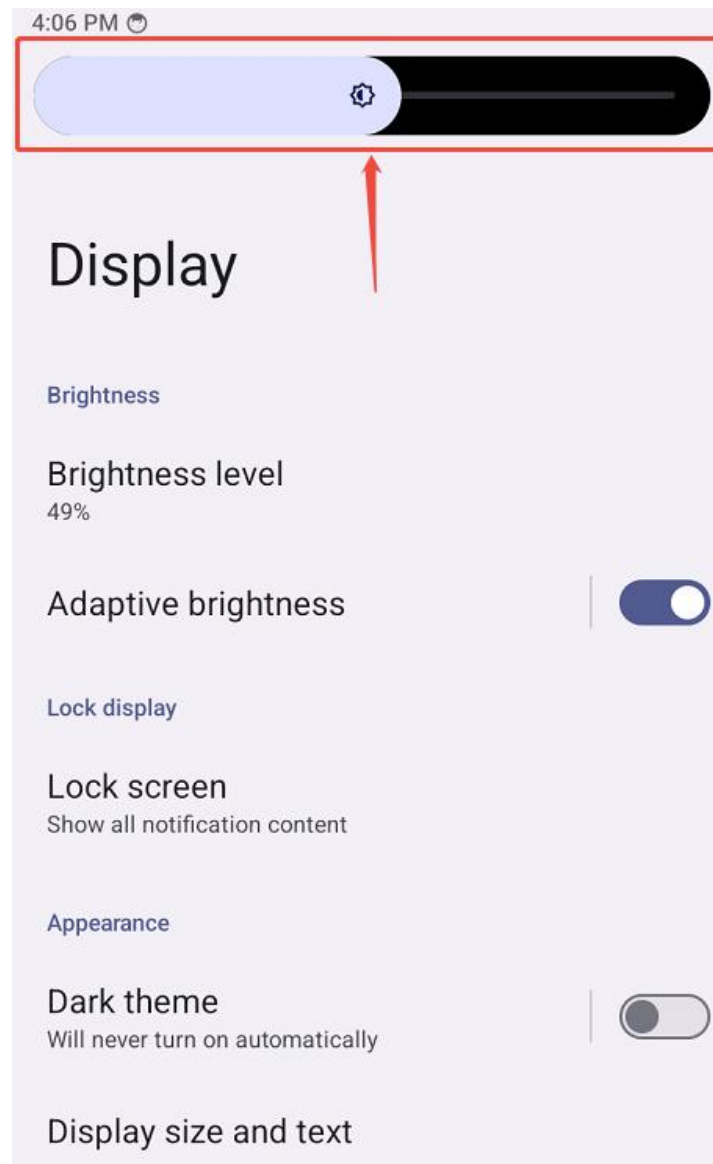
6.3 Display

Find it by following the path “Settings > Display”.



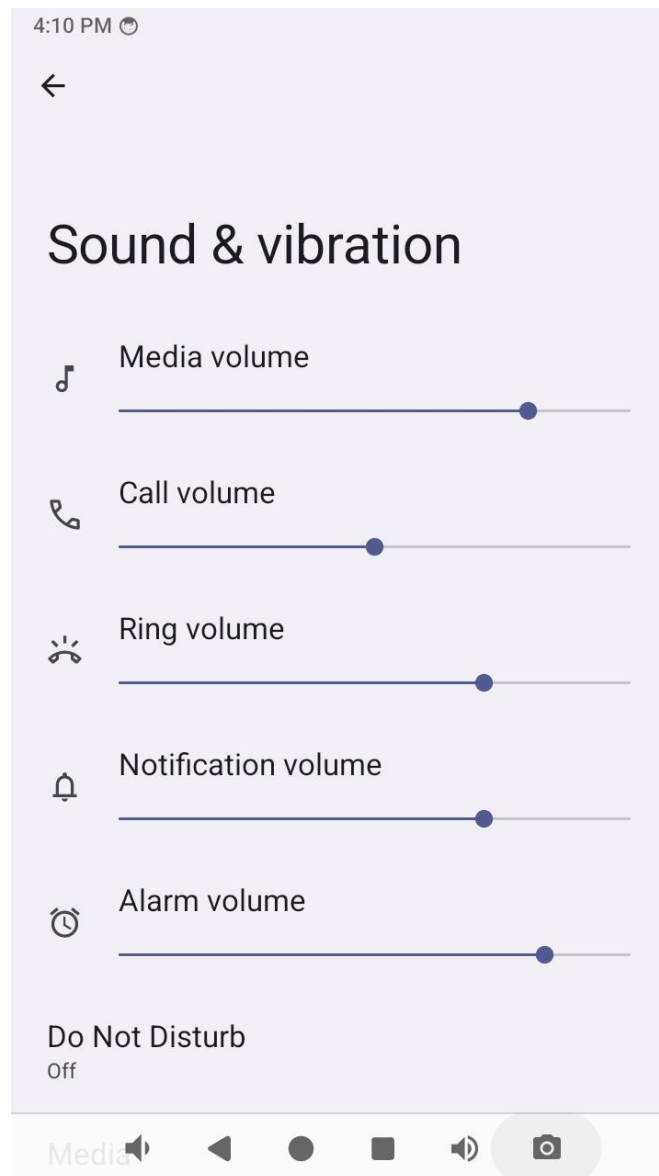
6.3.1 Brightness level

Click “Brightness level” and drag the adjustment button to adjust the brightness.



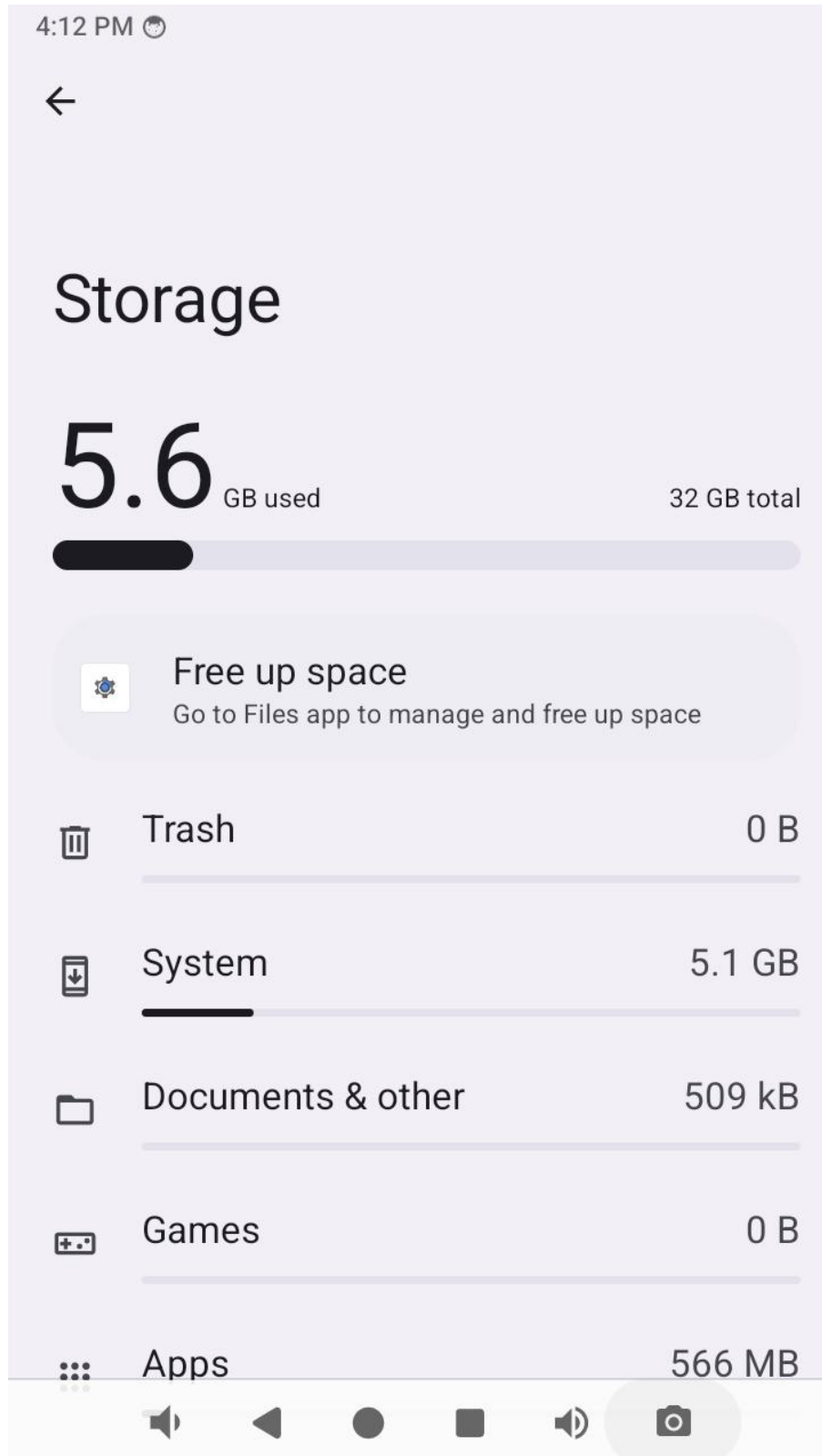
6.4 Sound

- Find it following the path “Settings > Sound & vibration”.
- Drag the adjustment button to adjust the desired item.



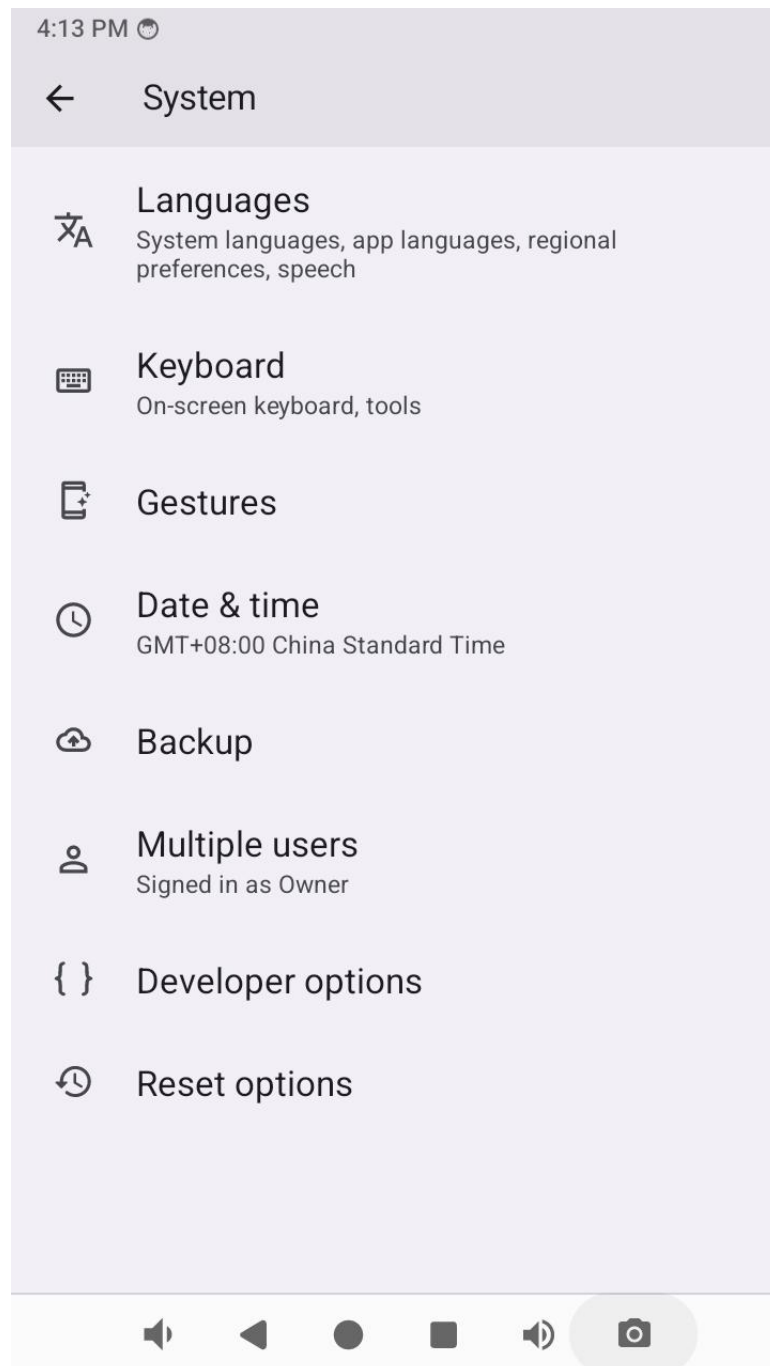
6.5 Storage

Find it by following the path “Settings > Storage”.



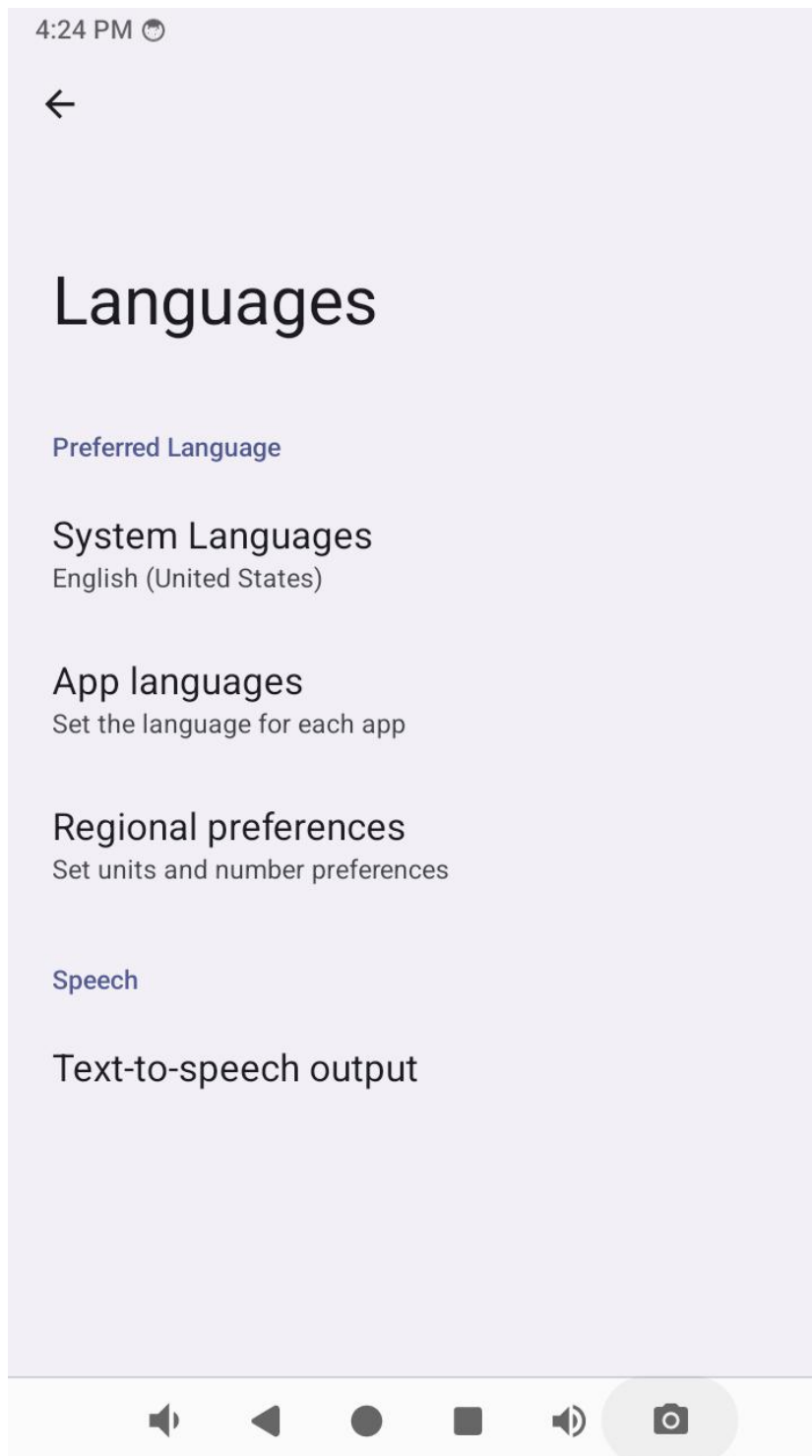
6.6 System

Find it by following the path “Settings > System”.



6.6.1 Language

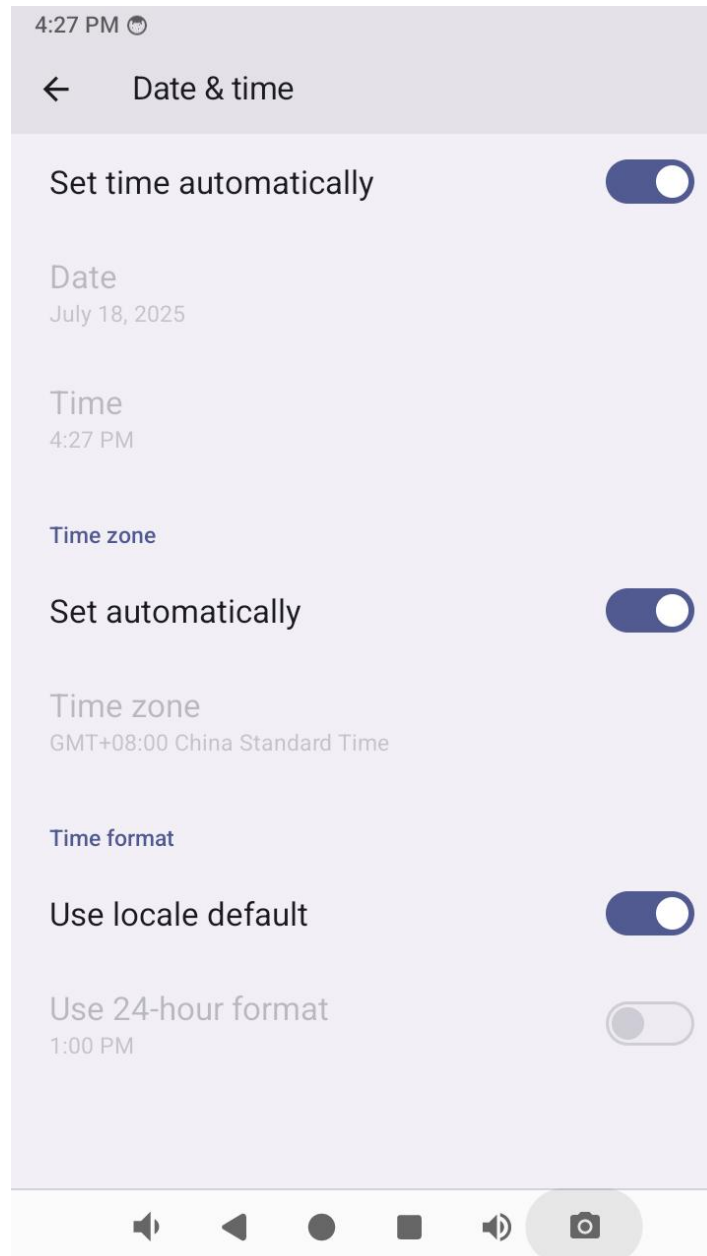
Find it by following the path “Settings > System > Language”.
Click “System Languages” and select the required language.



6.6.2 Date & time

Find it by following the path “Settings > System > Date & time”.

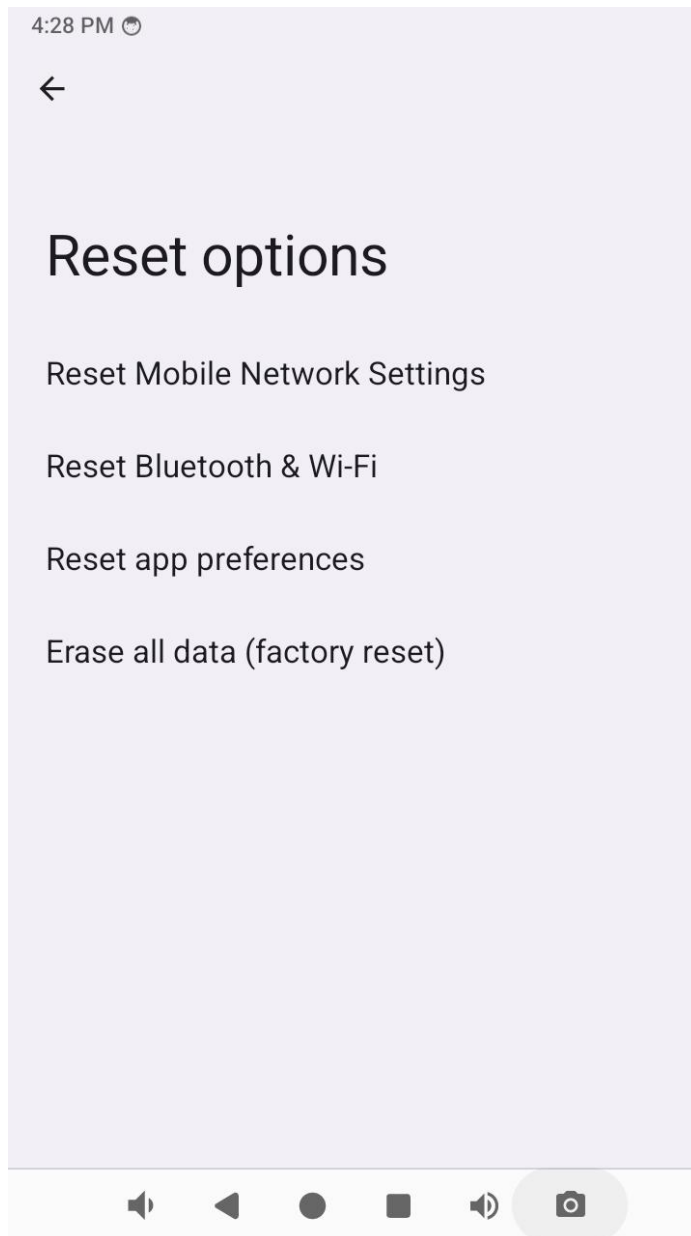
Enable “Automatic date & time” or set the date and time manually.



6.6.3 Reset options

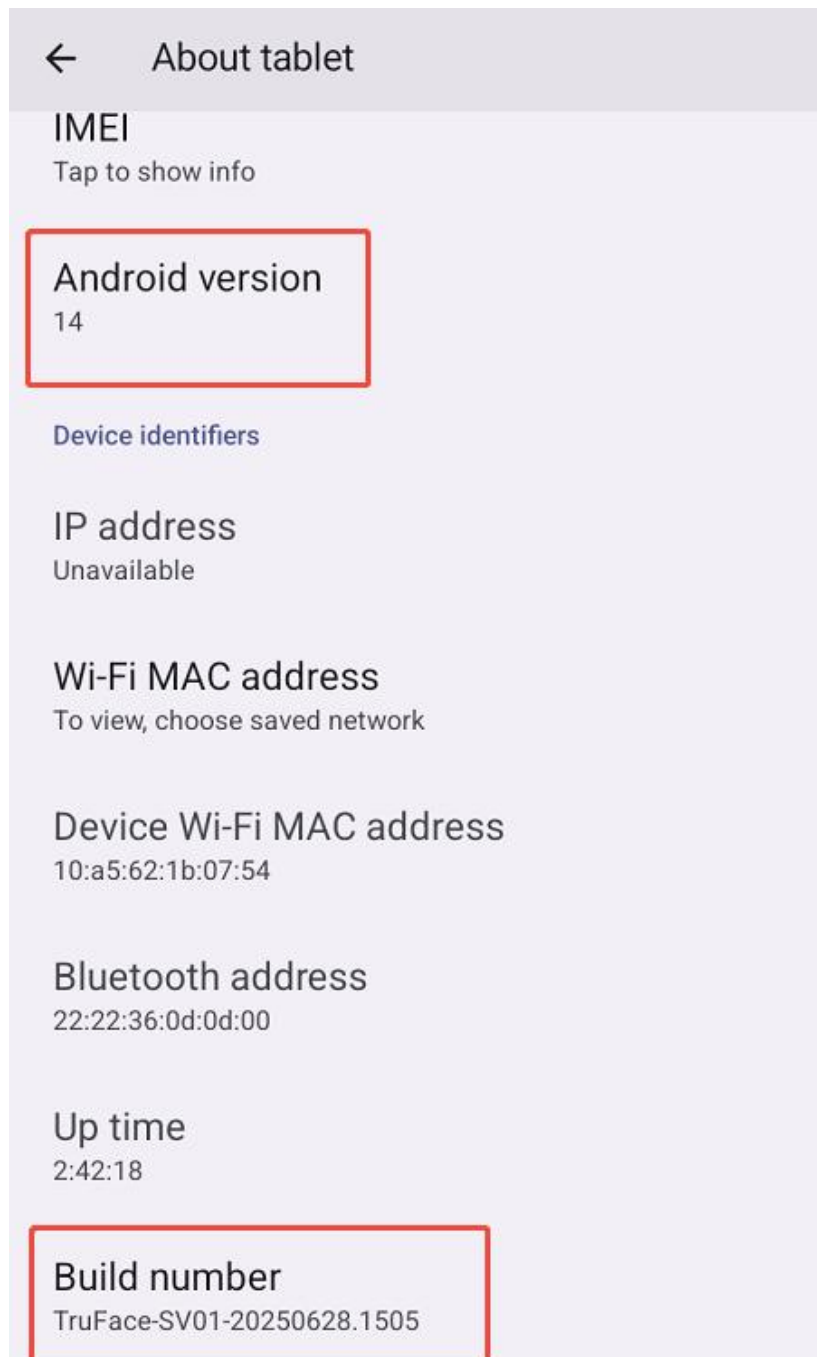
Find it by following the path “Settings > System > Reset options”.

Please click “Erase all data (factory reset)” and follow the prompts to reset the device.

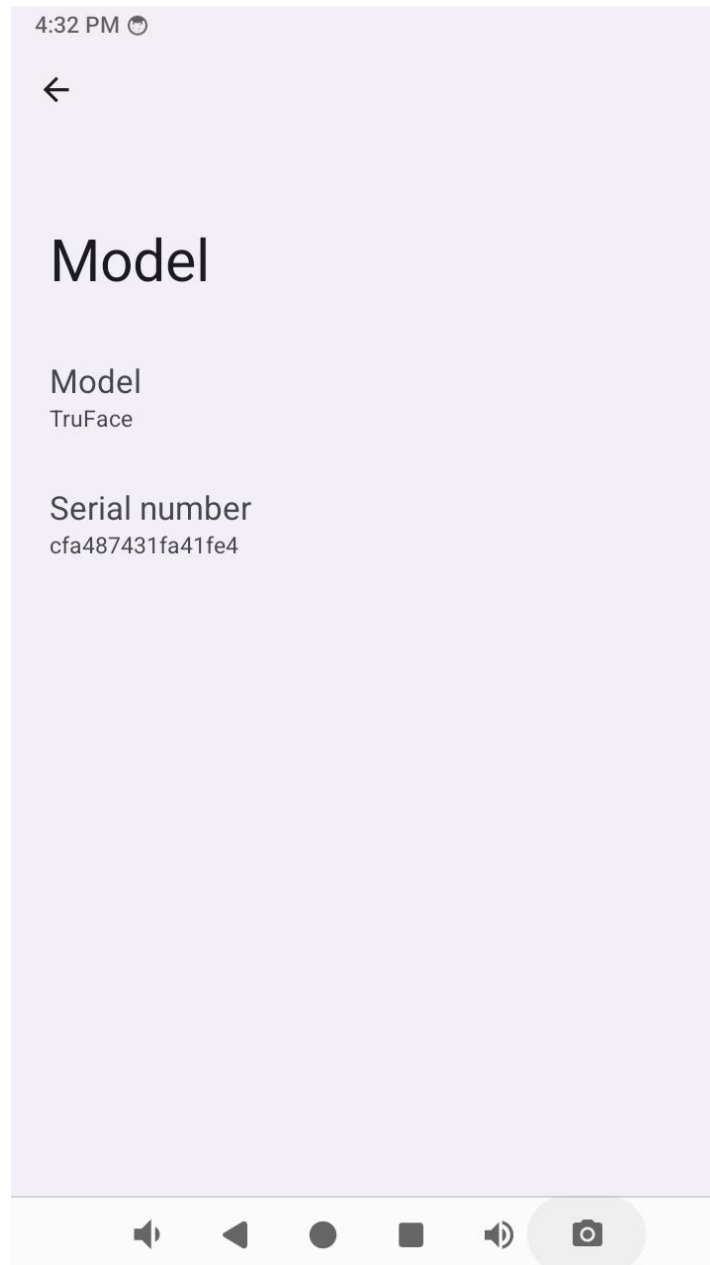


6.6.4 About tablet

You can find the information about the **Build number (OS firmware version)** and the **Android version** by the path “Settings > System > About tablet”.



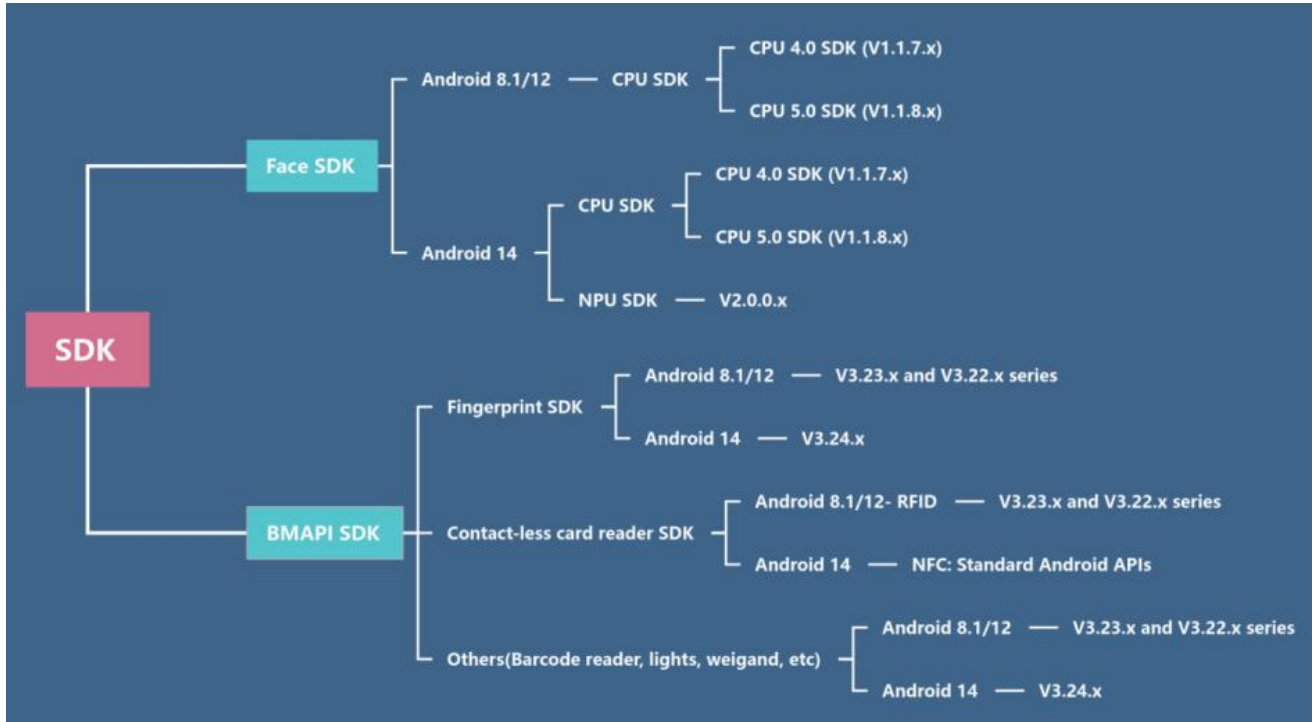
You can find the **Serial number** by the path “Settings > System > About tablet > Model”.



7. FAQ

Q1: What is the SDK packages for software development?

Please refer to the below table:



Q2: How to connect BA5300 with PC for software application debugging?

a. Enable OTG or Peripheral mode:

Settings > Connected devices > USB data role type > OTG

b. Enable USB debugging:

Settings > System > About tablet > click “Build number” 5 times > Back to “System” menu > Developer options > Debugging > Enable “USB debugging”

c. Use “USB-A to USB-A” connect device with PC.

c1. If you device has two USB TYPE A ports, connect the one with OTG label

c2. If you device has one USB TYPE A port, connect the only USB TYPE A port.



Q3: How to use RS485 port?

A: The port of RS485 is /dev/ttyS3 , the RS485 is a standard serial port without SDK

Q4: How to use Relay /Wiegand/ Input/ Output port?

A: Please refer to the following steps.

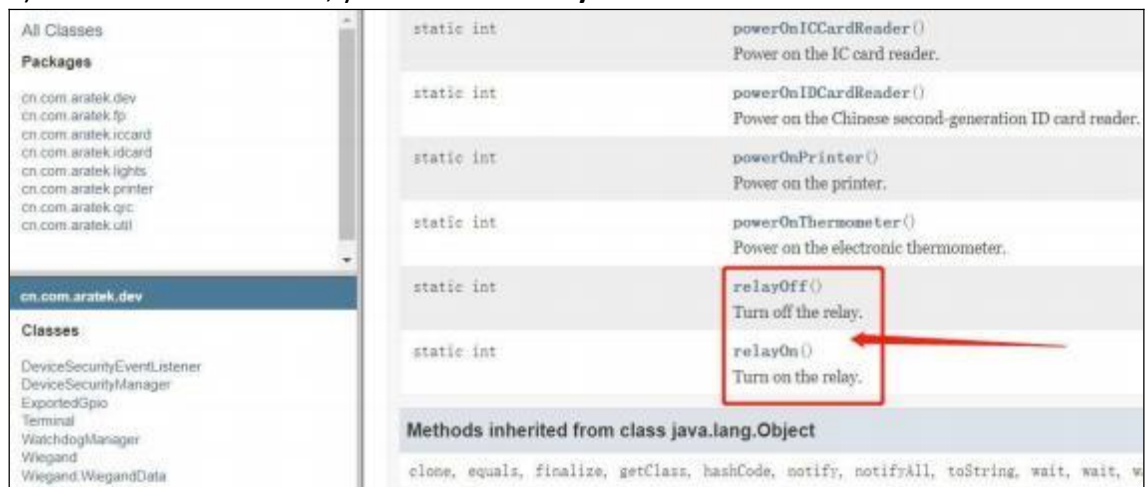
- 1) Open “Index” by following the path “AraBMAPISDK package\doc\javadoc”.



- 2) Click “cn.com.aratek.dev”, then you can find the required information as follows.



- 3) Click “Terminal” class, you can find “Relay”.



4) Click “**DeviceSecurityEventListener**” and “**DeviceSecurityManager**”, then you can find the required information about “**Input**”.

All Classes

Packages

- cn.com.artek.dev
- cn.com.artek.fpi
- cn.com.artek.iccard
- cn.com.artek.idcard
- cn.com.artek.light
- cn.com.artek.printer
- cn.com.artek.qrc
- cn.com.artek.util

cn.com.artek.dev

Classes

- DeviceSecurityEventListener
- DeviceSecurityManager
- ExportedGpio
- Terminal
- WatchdogManager
- Wiegand
- WiegandWiegandData

```
public abstract class DeviceSecurityEventListener
extends java.lang.Object

Listener class for device security event.
```

Constructor Summary

Constructors

Constructor and Description

Constructor	Description
DeviceSecurityEventListener()	

Method Summary

All Methods	Instance Methods	Concrete Methods
Modifier and Type	Method and Description	
void	onAlarmStatusChanged(int prevStatus, int newStatus) Notifies that the alarm status is changed.	
void	onAntiDismantleStatusChanged(int prevStatus, int newStatus) Notifies that the anti-dismantle status is changed.	
void	onDoorSensorStatusChanged(int prevStatus, int newStatus) Notifies that the door sensor status is changed.	
void	onExitButtonStatusChanged(int prevStatus, int newStatus) Notifies that the exit button status is changed.	

5) Click “**ExportedGpio**”, then you can find the required information about “**Output**”.

All Classes

Packages

- cn.com.artek.dev
- cn.com.artek.fpi
- cn.com.artek.iccard
- cn.com.artek.idcard
- cn.com.artek.light
- cn.com.artek.printer
- cn.com.artek.qrc
- cn.com.artek.util

cn.com.artek.dev

Classes

- DeviceSecurityEventListener
- DeviceSecurityManager
- ExportedGpio
- Terminal
- WatchdogManager
- Wiegand
- WiegandWiegandData

```
public final class ExportedGpio
extends java.lang.Object

Class for exported GPIOs.
```

Method Summary

All Methods	Static Methods	Instance Methods	Concrete Methods
Modifier and Type	Method and Description		
int	directionInput() Set the exported GPIO to input direction.		
int	directionOutput() Set the exported GPIO to output direction.		
static ExportedGpio	get(java.lang.String name) Get the exported GPIO specified by name.		
static ExportedGpio[]	getAll() Get all exported GPIOs.		
java.lang.String	getName() Get the exported GPIO name.		
int	getValue() Get the value of exported GPIO.		
boolean	isSupportInput() Get if the exported GPIO supports direction input.		
boolean	isSupportOutput() Get if the exported GPIO supports direction output.		
void	setValue(int value) Set the exported GPIO value.		

6) Click “Wiegand”, then you can find the required information about “Wiegand”.

All Classes

Packages

- cn.com.aratek.dev
- cn.com.aratek.fp
- cn.com.aratek.iccard
- cn.com.aratek.idcard
- cn.com.aratek.lights
- cn.com.aratek.printer
- cn.com.aratek.qrc
- cn.com.aratek.util

All Classes

- Bione
- CodeScanner
- DeviceSecurityEventListener
- DeviceSecurityManager
- ExportedGpio
- FingerprintImage
- FingerprintScanner
- ICCardReader
- IDCard
- IDCard.Country
- IDCard.Nationality
- IDCard.Sex
- IDCard.Type
- IDCardReader
- Light
- PaperExhaustedException
- Printer
- Result
- Terminal
- WatchdogManager
- Wiegand**
- Wiegand.WiegandData

Class Wiegand

java.lang.Object
cn.com.aratek.dev.Wiegand

```
public final class Wiegand
extends java.lang.Object
```

Class for Wiegand device.

Nested Class Summary

Nested Classes

Modifier and Type	Class and Description
static class	Wiegand.WiegandData Class for Wiegand data.

Field Summary

Fields

Modifier and Type	Field and Description
static int	PROTOCOL_26 The Standard 26-Bit Format.
static int	PROTOCOL_34 The 34-Bit Format.
static int	PROTOCOL_UNKNOWN Unknown Format.

Q5: How to transfer file to the BA5300?

Please refer to the following options.

Option a-Transfer file with laptop.

1) Enable OTG or Peripheral mode: Settings > Connected devices > USB data role type > OTG

2) Use “USB-A to USB-A” connect device with laptop.

c1. If you device has two USB TYPE A ports, connect the one with OTG label.

c2. If you device has one USB TYPE A port, connect the only USB TYPE A port.

3) Choose **file transfer** by this path: **Settings---Connected Devices---USB Preferences---file transfer**

4) NOW you can transfer file between BA5300 and laptop.

Option b-Transfer file with USB Disk.

1) Enable HOST mode: Settings > Connected devices > USB data role type > HOST

2) Connect USB Disk with BA5300.

c1. If you device has two USB TYPE A ports, both are OK for the file transfer.

c2. If you device has one USB TYPE A port, connect the only USB TYPE A port.

3) NOW you can transfer file between BA5300 and USB Disk.

Q6: Why I can't find my USB Disk in BA5300?

Please make sure your BA5300 is in HOST mode.

Please refer to **Q5-option b**.

Q7: Why I can't find BA5300 in my laptop?

Please make sure your BA5300 is in OTG or Peripheral mode and connected with the right TYPE A port.

Please refer to **Q5-option a**.

Q8: How to become a developer?

Settings > System > About tablet > click "Build number" 7 times > You are now a developer.

Identifying the World. Easily, Securely.

Aratek Biometrics Co., Ltd

T2-A2-a, Gaoxin Industrial Village, No. 022 Gaoxin South Seventh Road, Nanshan District, Shenzhen, Guangdong, China

+86-755-26719975

www.aratek.co

sales@aratek.co

Aratek International

10F, No. 131, Songjiang Road, Zhongshan District, Taipei City 10491, Taiwan

+886-2-25010001

Aratek Innovation Private Ltd.

#1-11-254/11/A, Rama Mansion, Motilal Nehru Nagar, Begumpet, Hyderabad, Telangana

500016, India

+91-40-27760888

EMEA Office

Via Tiziano, 32/Piano 4, 20145 Milano MI, Italy

+390200694629

©2021 Aratek Biometrics Co., Ltd.

Product appearance, build status and/or specifications are subject to change without notice. All rights reserved.



Face Recognition Terminal BA5300

Installation Guide V1.0

Thank you for purchasing Aratek product. In order to ensure that this product is used safely, please read this guide carefully before install the product. It will also help to improve product life and have an excellent performance.

By reading this installation guide, you can understand the performance characteristics, technical parameters of the product in more detail and get the installation process of the device with attentions.

Content

1. Safety Instructions.....1

2. Product Overview.....4

3. Features.....5

4. Product Introduction.....6

5. Installation.....11

1、 Safety Instructions

Please read this safety instruction before using the product to prevent injury to you and others and to prevent property damage. The word "Product" in this manual refers to the product and any items included with it.

This manual is only for reference and do not have any commitment. The product appearance and function should be based on the actual object. We reserve the right to modify any information in this document at any time. The content of the modification will be added to the new version of this document.

1-1、 Installation Safety Instruction:

Do not install or repair the product arbitrarily.

- This may result in electric shock, fire or product damage.
- Damages caused by any modifications or failure to follow installation instructions may voids the warranty.

Do not install the product in a place with direct sunlight, moisture, dust, soot, or a gas leak.

- This may result in electric shock or fire.

Do not install the product inside the sealed enclosure when installing it outside.

- It will increase the internal temperature of the case, which may cause electric shock, fire or malfunction.

Do not install the product in a location with heat from an electric heater.

- This may result in fire due to overheating.

Do not install the product in a location where it will be affected by radio frequencies.

- This may result product damage.

Do not install the power supply cable in a location where people pass by.

- This may result in injury or product damage.

Install the product in a dry location.

- Humidity and liquids may result in electric shock or product damage.

1-2、 Operation Safety Instruction:

Keep the product dry.

- Humidity and liquids may result in electric shock, fire or product damage.

Do not use damaged power supply adaptors, plugs, or loose electrical sockets.

- Unsecured connections may cause electric shock or fire.

Do not bend or damage the power cord.

- This may result in electric shock or fire.

Do not disconnect the power supply while updating the firmware of the product.

- The product may malfunction.

Do not throw and knock equipment. It can avoid internal circuit boards damage.

If device is not used for a long time, please turn off the power.

2、 Product Overview

The smart device BA5300 face recognition terminal is developed by Aratek, which integrates face recognition, fingerprint recognition, card reading, QR reading, fever detection and access control solution together. It's equipped with a high dynamic range camera which can supports live facial recognition powered by Aratek algorithm. It is widely used in community, school, bank and government as gate control and time & attendance.

3、Features

Multi-modal recognition

Binocular live face recognition, card verification, QR code recognition, fingerprint recognition multi-modal recognition methods.

Multiple scenes

It's widely used in communities, schools, hospitals, airports, trains station, etc.

HD wide dynamic camera

The built-in 2M camera with a wide dynamic range can capture clear facial images under strong light, backlight, dark light and other environments to achieve rapid face recognition.

Binocular live detection

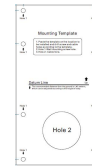
Built-in visible light and infrared dual cameras can automatically complete live detection, effectively reject non-living attacks such as photos and videos.

4、Product Introduction

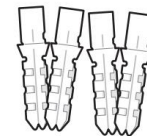
4.1、Product Introduction—Components in the package



BA5300 x1



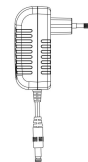
Mounting Template x1



PVC Anchor x4



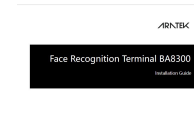
Screw x4



Adapter x1

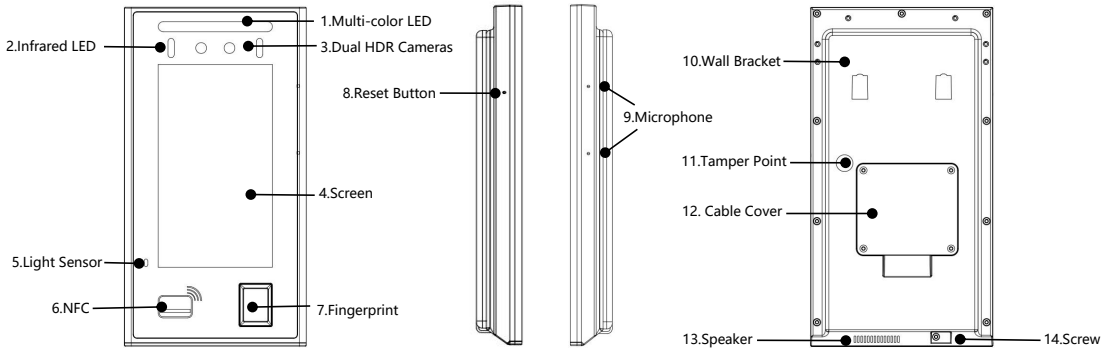


Screwdriver x1



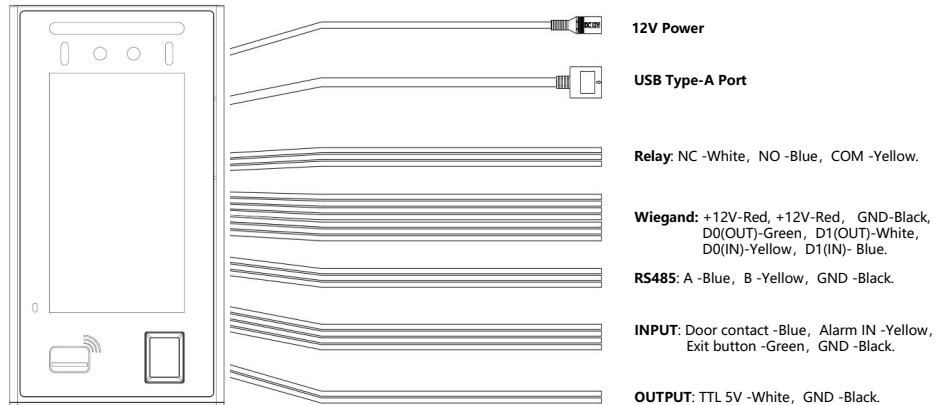
Installation Guide x1

4.2、Product Introduction—Wall Mounted Version

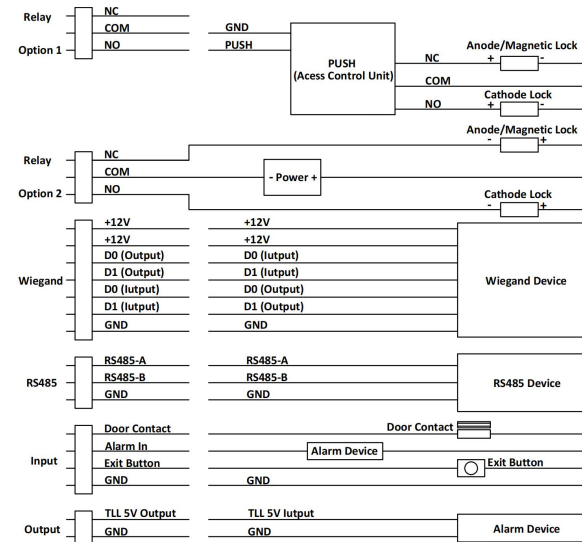


No.	Name	Function	No.	Name	Function
1	Multi-color LED	Fill-in Light	8	Reset Button	Reset the device
2	Infrared LED	Fill-in Light	9	Microphone	Collect sound
3	Dual HDR Cameras	Face recognition	10	Wall Bracket	Wall bracket
4	Screen	5.5" IPS touch screen	11	Tamper Point	Tamper detect point
5	Light Sensor	Sense ambient brightness	12	Cable Cover	Lock device and support bar
6	NFC	Contactless card Reader	13	Speaker	Play sound
7	Fingerprint	Fingerprint recognition	14	Screw	Screw for wall bracket

4.3、Product Introduction—Cables and Interfaces



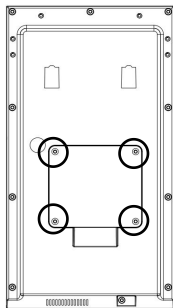
4.4、Product Introduction—Wire Connection Diagram



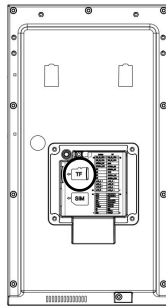
5、Product Installation

5.1、TF Card Installation

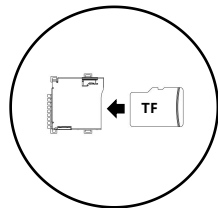
Notice: Please skip this step if you do not need TF card function.



① Take out the cable cover after removing 4 screws.



② According to the prompt, insert the TF card in the correct direction accordingly.



③ Install back the cable cover and fix it by 4 screws.

5.2、Installation for Wall mounted



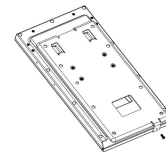
① Paste the mounting template onto the wall, and drill holes according to it.

Notice:

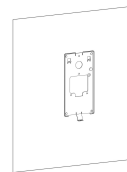
The optimal height for installing device is 140 cm.



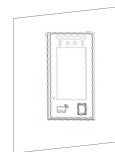
② Drill 4 holes and insert 4 PVC anchor. And please drill a big wire hole if you want to hide the wires.



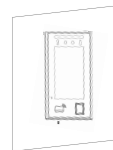
③ Remove a screw on the bottom of device and take out wall bracket.



④ Fix the bracket on the wall by using 4 screws.



⑤ Refer to Section 5.4 for the wire connection.

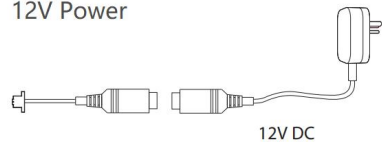


⑥ Install the device on the wall bracket and fix it with a bottom screw.

5.3、 Wire connections

12V DC Supply Connection

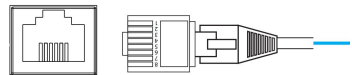
12V Power



RS485/Realy/Wiegand/ input/ Output Connection

Please refer to the section 4.5

LAN Connection



FCC Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

RF Exposure Information

The device has been evaluated to meet general RF exposure requirement. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.