BM5510

User manual

V 2.0

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1. Introduction

Phenomenal battery life. Highly-portable. Feature-packed. When the job calls for a reliable and portable fingerprint scanner, the ARATEK BM5510 Handheld ID Check Terminal is the only choice. The device features an ultra-long battery life that keeps going, making the ARATEK BM5510 the perfect biometrics tool for law enforcement, National ID, remote financial services, and many other applications.

2. Important Safety Information

Please follow the following safety instructions:

※Do not use liquid or aerosol cleaners for cleaning.

※Do not disassemble or modify the device.

※Do not try to charge the battery with other chargers.

※Do not yank the power cord or place anything on the power cord.

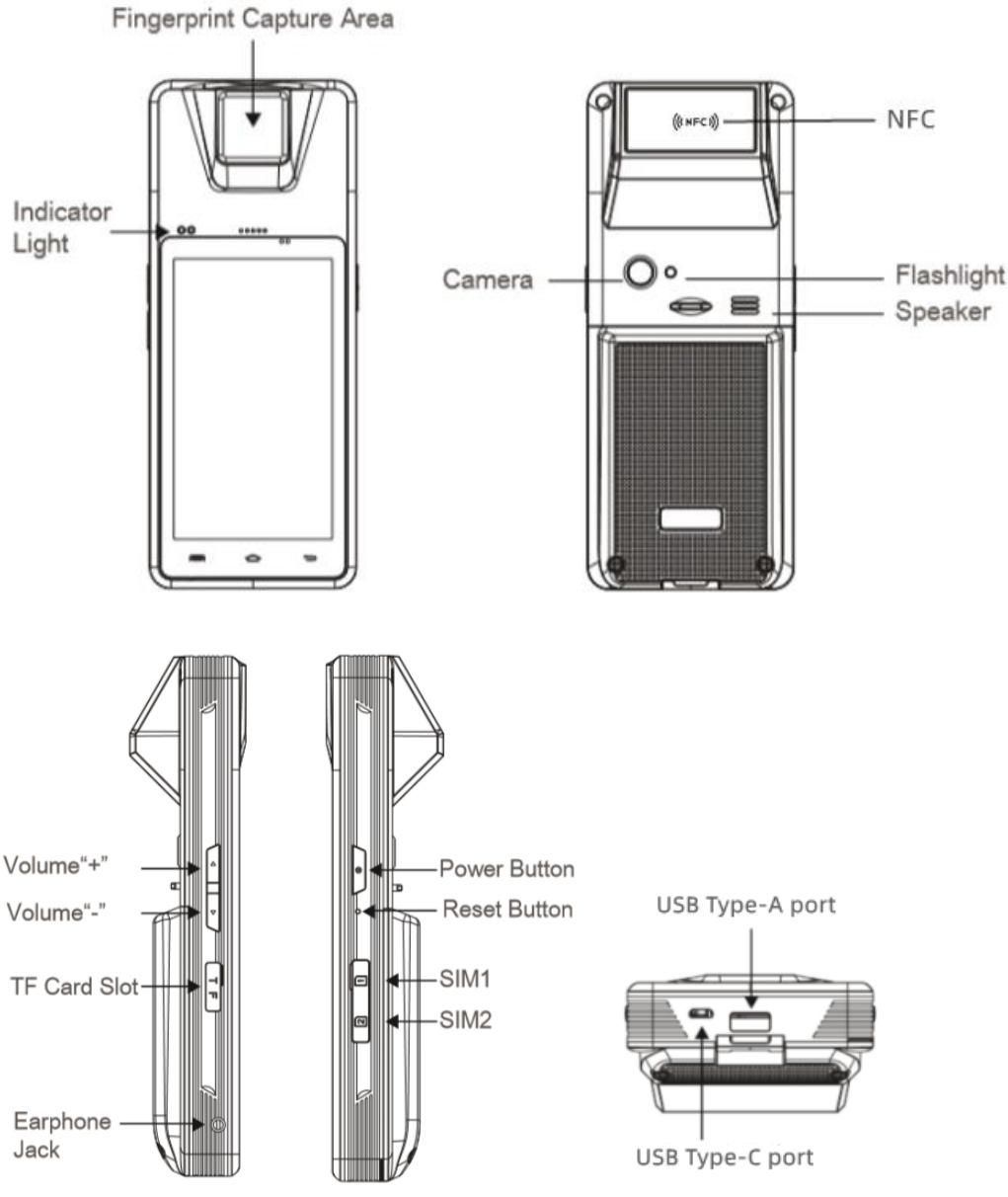
※Do not expose the device into fire or heat it, or it may cause crack and injury.

※Do not use or store the device under too hot, too cold or dusty environment.

※Do not drop, knock or shake the device violently, or it may damage internal circuit board.

※Do not forget to turn off the device before SIM card insert and remove.

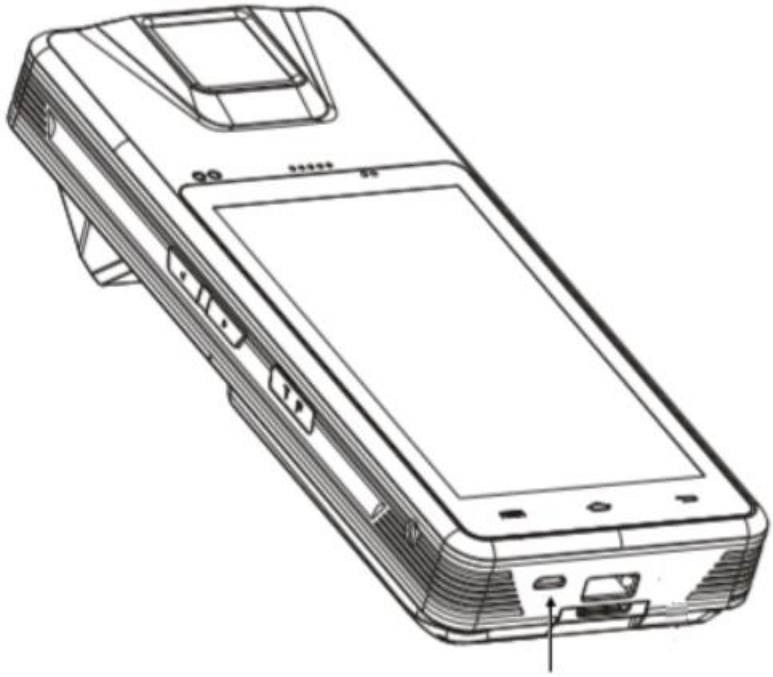
3. Product Interface



4. Operations

Before switching ON device for the first time or after a long time period, put it on charging until full power.

(1) How to charge

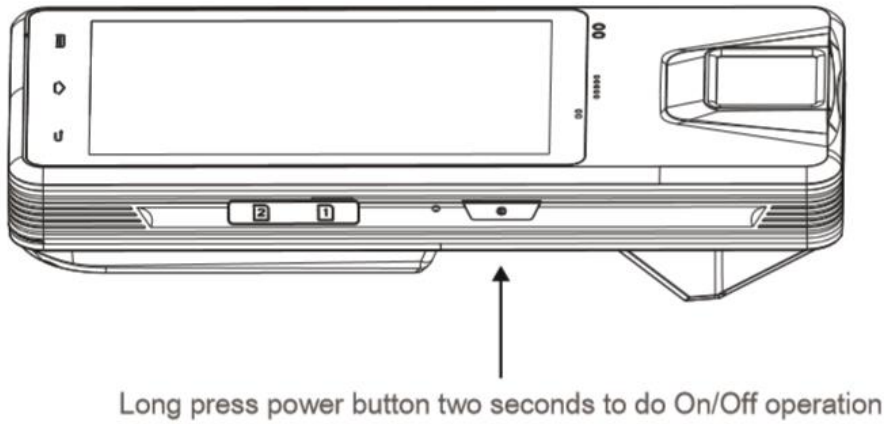


• Type C USB port can be used to charge the battery.

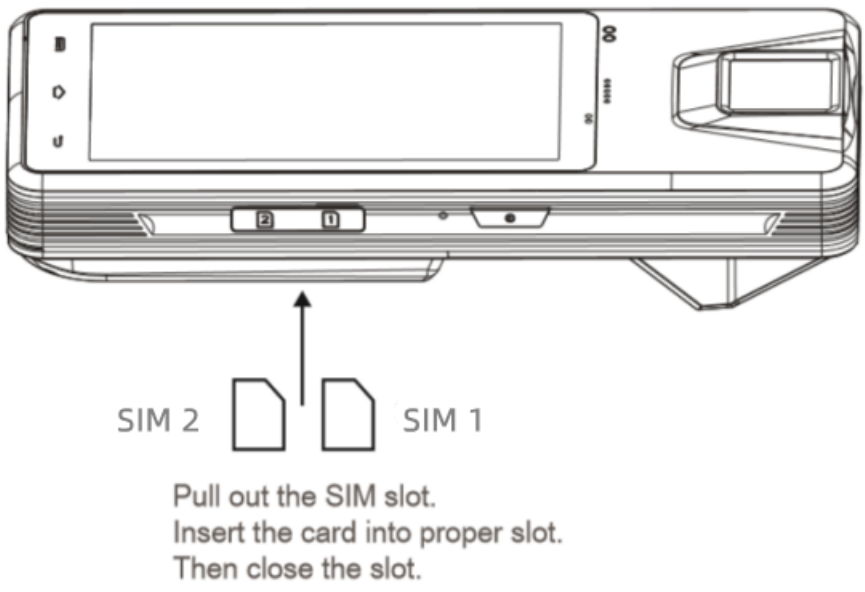
• When charge the device, plug in the USB cable in the device and the power adaptor.

Even if the device is not switched ON, the battery will be charged whenever the DC Adaptor power is available.
Red/green indicator light: red light when power charging is less than 95%; green light when power charging is greater than or equal to 95%

(2) Power On/Off operation

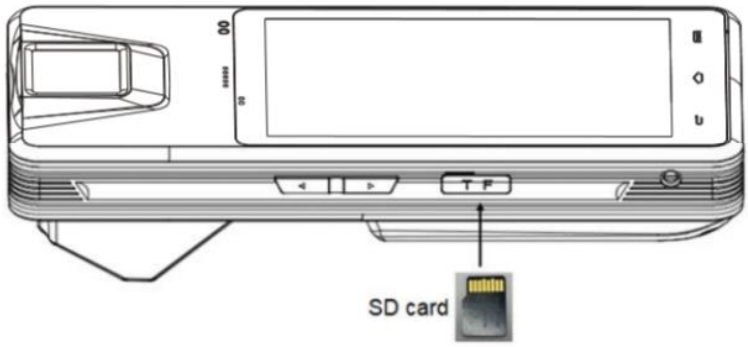


(3) Insert/Remove SIM card



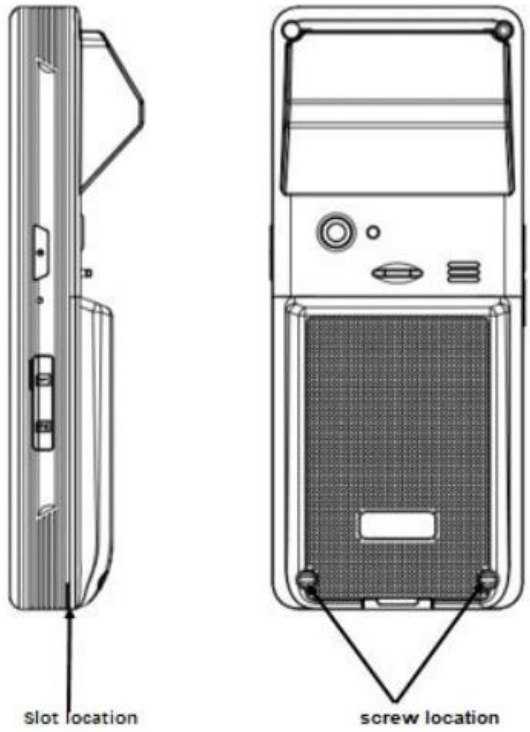
- There are two SIM slots, you can insert a maximum of two SIM cards.
- Ensure the device is turned OFF before inserting or removing a SIM card.

(4) Insert/Remove SD card



Pull out the TF slot
Insert the SD card (Back side up) in the slot
Then close the slot

(5) Remove battery



- Loosen two screws
- Open the battery cover through the slot
- Remove the battery

5. Troubleshooting

Problem 1: charging failure

Solution: (1) Check if the plug is inserted correctly.
(2) Ensure that micro USB charging port has good contact.

Problem 2: Over Heating

Solution: Avoid using the device under too hot environment. Stop device operation for a while.

Problem 3: System crash

Solution: a. Long press power button to turn off, then turn on.
b. Press reset button to restart device.
c. Contact Aratek support team.

Problem 4: Other problems

Solution: Contact Aratek for support, website: www.aratek.co

6. FAQ

1. How to enable USB device mode?

- Go to: ***Settings---Connected Devices*** *menu, then manually enable* ***USB Device Mode*** *option.*

2. Why I can't use fingerprint after I transfer files between device and PC?

- When you copy the files between the device and the PC, you need to enable the ***USB device mode***.
- After file transfer, you have to disable the ***USB device*** mode unless your fingerprint can't work..
- Go to: ***Settings---Connected Devices--- USB Device Mode*** to disable the USB device mode

3. How to transfer files between BM5510 and PC, why BM5510 can't be found in my PC?.

- Please follow below steps:

1) Enable U***SB device mode***.

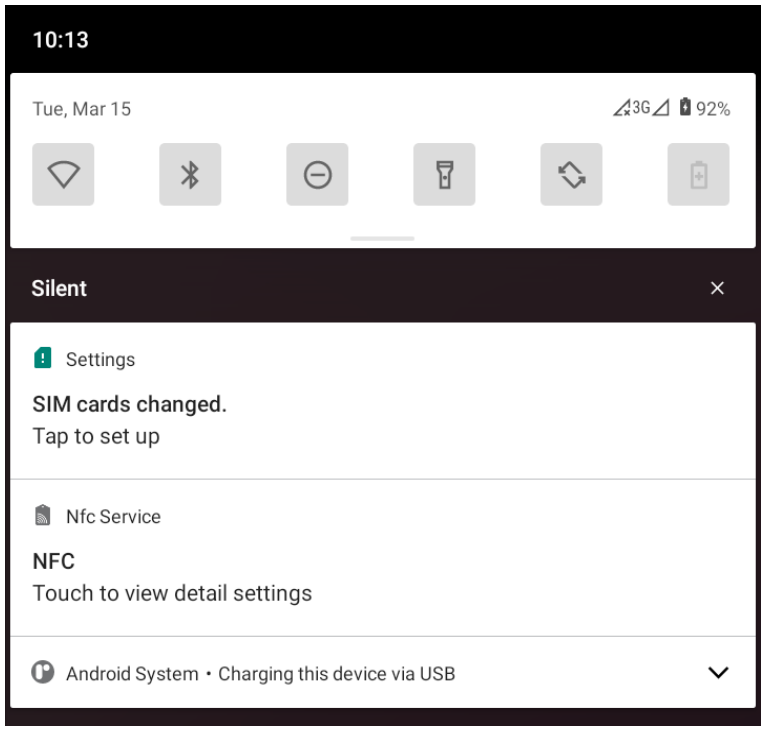
2) Connect a PC by a Type C cable.

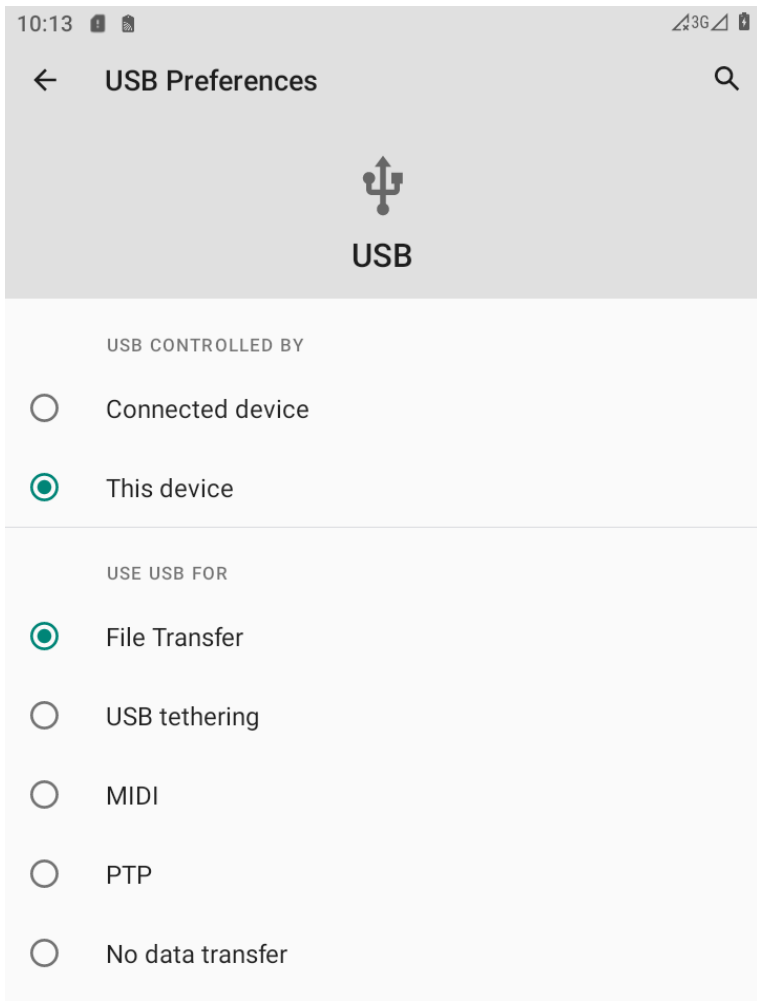
3) Click and open the notification message (***Android system-Charging this device via USB***).

4) Choose ***file transfe***r by this path: ***Settings---Connected Devices--- USB Preferences.***

5) Open your PC, you can find BM5510 is in your PC and you can transfer file between BM5510 and your PC..

6) After file transfer, unplug the type C cable and disable the ***USB device mode***


10:13
Tue, Mar 15
92%
Silent
Settings
SIM cards changed.
Tap to set up
Nfc Service
NFC
Touch to view detail settings
Android System • Charging this device via USB


10:13
USB Preferences
USB
USB CONTROLLED BY
Connected device
This device
USE USB FOR
File Transfer
USB tethering
MIDI
PTP
No data transfer

4. Is there a way we could do debugging from PC while keeping the fingerprint on?

- Please use ***WI-FI-debugging***. Detailed steps were shown in Q5.

5. Why and how to do Wi-Fi Debug?

- Due to one USB port design in motherboard, fingerprint and TYPE C port cannot be used at the same time.
- Steps for Wi-Fi debug:

1) Turn on Android device USB Debugging and enable ***USB device mode*** , then connect device with PC.

2) Turn on Wi-Fi and connect the device to local area network, make sure your Android device and PC can communicate with each other in local area network.

3) Open command line and enter command like below:

adb tcpip 5555

adb shell netcfg

4) Find your Android device IP address, (such as 192.168.XXX.XXX),then disconnect the device, and enter command on PC:

adb connect 192.168.xxx.xxx

5) Disable the ***USB device mode*** (in ***Settings---Connected Devices---USB Device Mode***).

6) Then, you can debug through Wi-Fi.

7. Technical Specifications

Basic	**Operating System**	Android 13
	Processor	Octa-core 2.3GHz
	Memory (RAM+ROM)	4G+128G
	Display	5 Inches 720*1280 Pixels IPS LCD
	Resolution	720*1280 IPS
	Camera	16 MP Auto Focus (Rear)
	Expansion Card	SD Card, Up to 256G
	Battery	10,000mAh removable
	Charging	Input: 100-240V, 50/60hz; Output: 9V/2A, Fast charging ability
	Weight	465g
	Dimension	201*82*46 mm (L*W*H)
	Accessories	Power adapter, Type-C cable
	Temperature and Humidity	Operation: -0℃~50℃, 10%-75% Storage: -20℃~60℃, 5%-85%
Biometrics	**Type**	FBI PIV certified FAP20 optical
	Platen Area	21.0*16.0 mm
	Sensing Area	20.3mm*15.2mm
	Image Size	Image Size: 300*400
	Image Resolution	500 dpi
	Grayscale	256 level
Communications	**SIM Card**	Micro Sim Card *2
	Wi-Fi	802.11 a/ac/b/g/n
	Bluetooth	Bluetooth 5.0
	2G	850&900&1800&1900
	3G	B1&B2&B5&B8
	4G	B1/B2/B3/B4/B5/B7/B8/B20/B28
	Location	GPS + GLONASS + Galileo + Beidou
	USB Ports	Type A USB 2.0 *1, Type-C *1
Credential Reading	**NFC**	ISO/IEC 14443 A/B,ISO 15693,ISO 18092

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.

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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.

This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.

Radiation Exposure Statement

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance of 5mm from your body.