

# **Mobile ID Terminal- Marshall**



## **Operational Manual**

**V 1.0**

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# **Introduction**

Portable. Powerful. Versatile. The ARATEK MARSHALL is an all-in-one device for easy identification and authentication anywhere. It is designed for demanding conditions that require portability and accuracy.

Using advanced fingerprint capture technology and the patented BIONE biometric engine, the ARATEK MARSHALL is the intelligent choice for identification and authentication applications for voter registration and authentication, census, border control, financial inclusion, welfare distribution, SIM card activation, and mobile Time and Attendance management.

The ARATEK MARSHALL Fingerprint Scanner carries the FBI PIV Mobile ID FAP 20 (option for FAP30, FAP45) Certification, a guarantee of high quality captures, fast and reliable matches, usability, and interoperability every time you need it.

# **Important Safety Information**

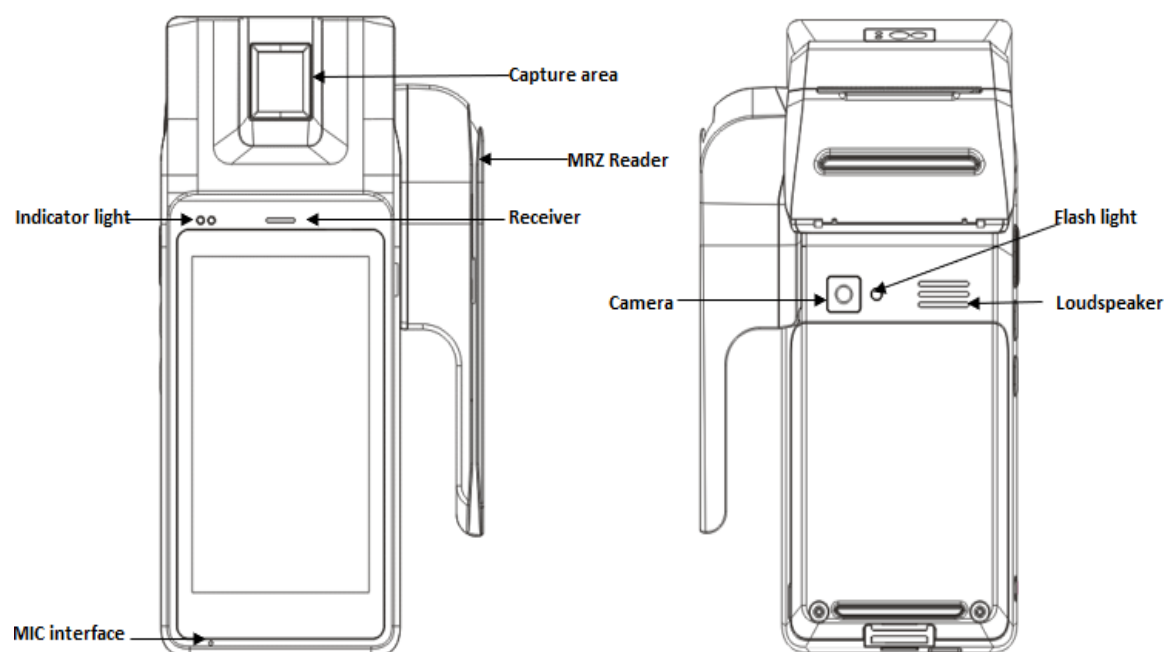
Please follow the following safety instructions:

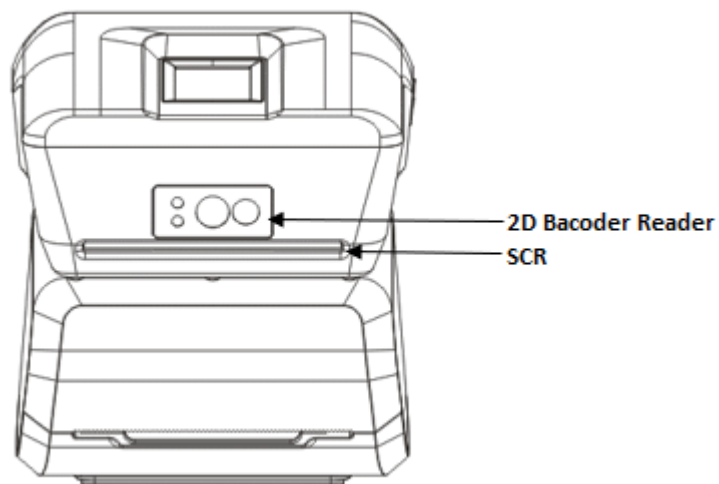
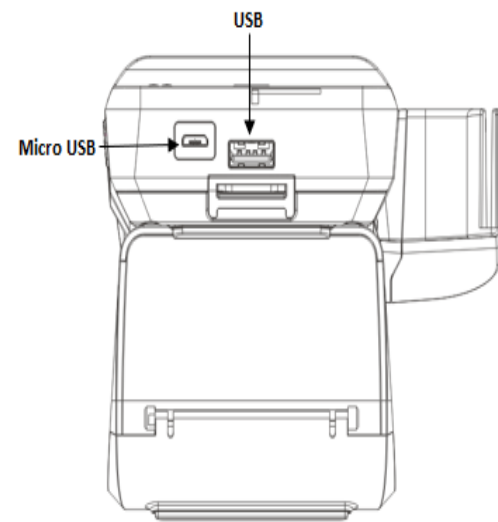
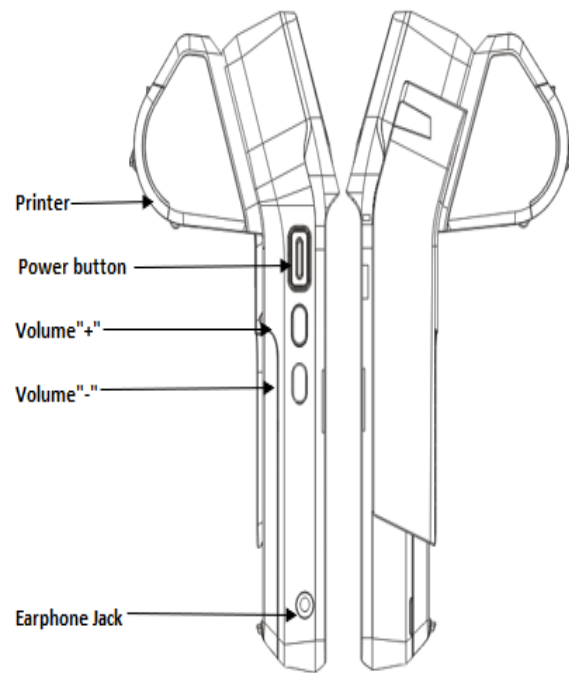
- ※Do not use liquid or aerosol cleaners for cleaning.
- ※Do not disassemble or modify the device.
- ※Do not try to charge the battery with other chargers.
- ※Do not yank the power cord or place anything on the power cord.
- ※Do not expose the device into fire or heat it, or it may cause crack and injury.
- ※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.

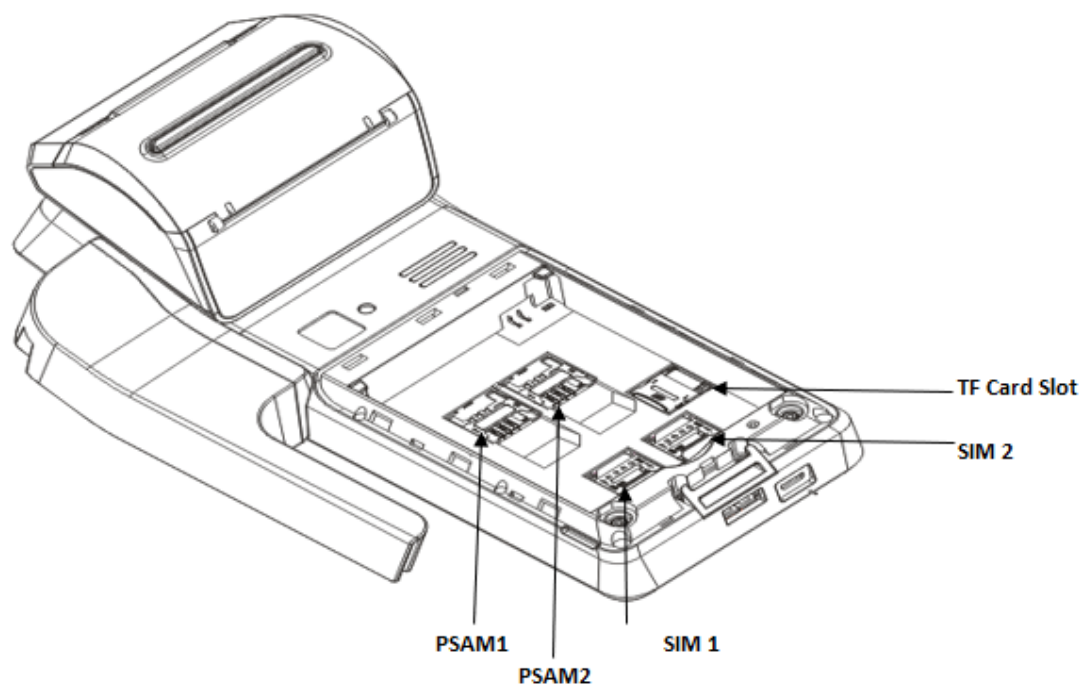
# Product Interface

**Model Name:** *Marshall*

**Specs:** FAP20 FPR, NFC, Printer, MRZ, 10000mAh Battery, 3G/4G, 2D barcode, SCR





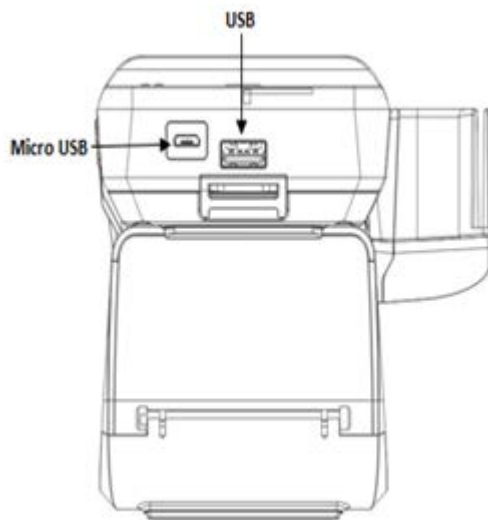


# Operations



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

## 1.Charge

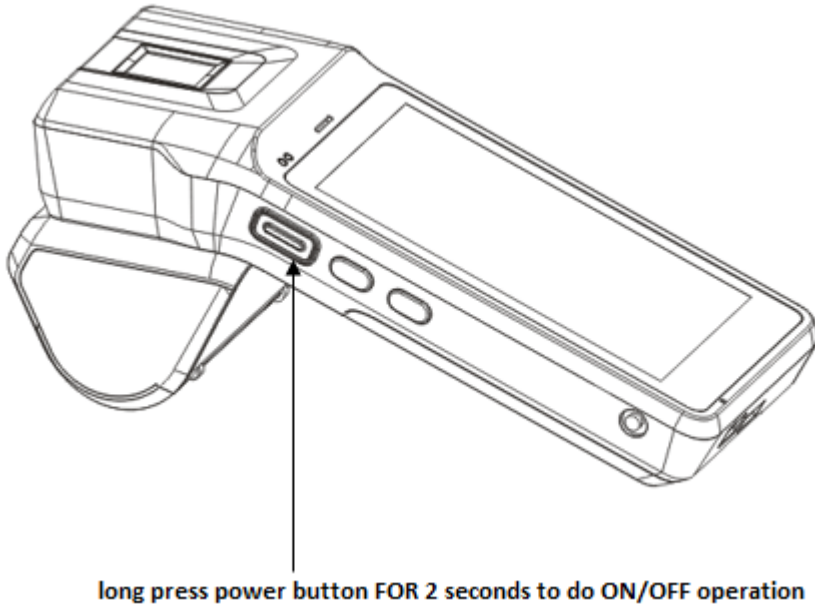


Connect power cable to Micro USB charging port

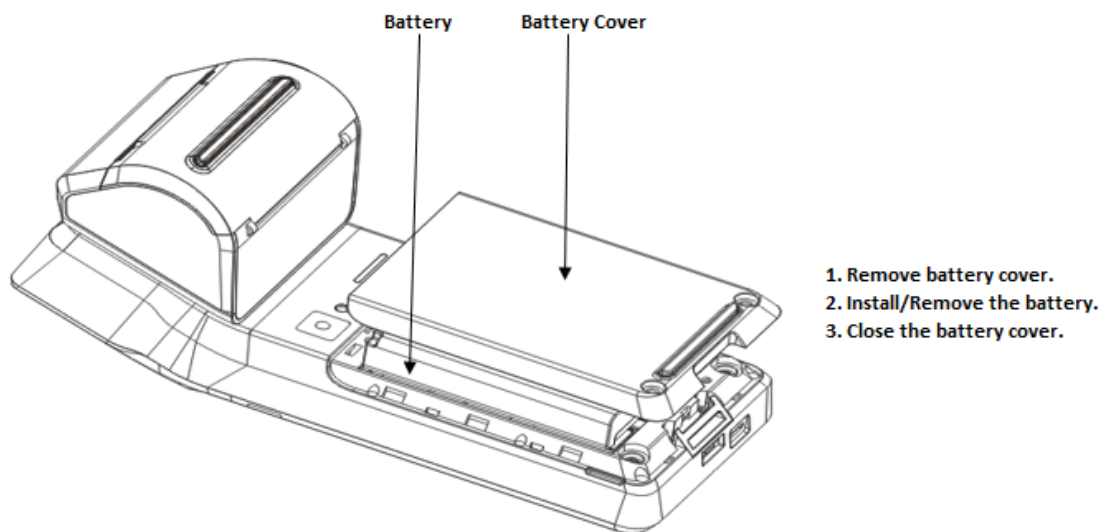


- ✚ Even if the device is not switched ON, the battery will be charged whenever the DC Adaptor power is available.
- ✚ Red/green indicator light: red light when power charging is less than 90%; green light when power charging is greater than or equal to 90%.

## 2.On/Off operation

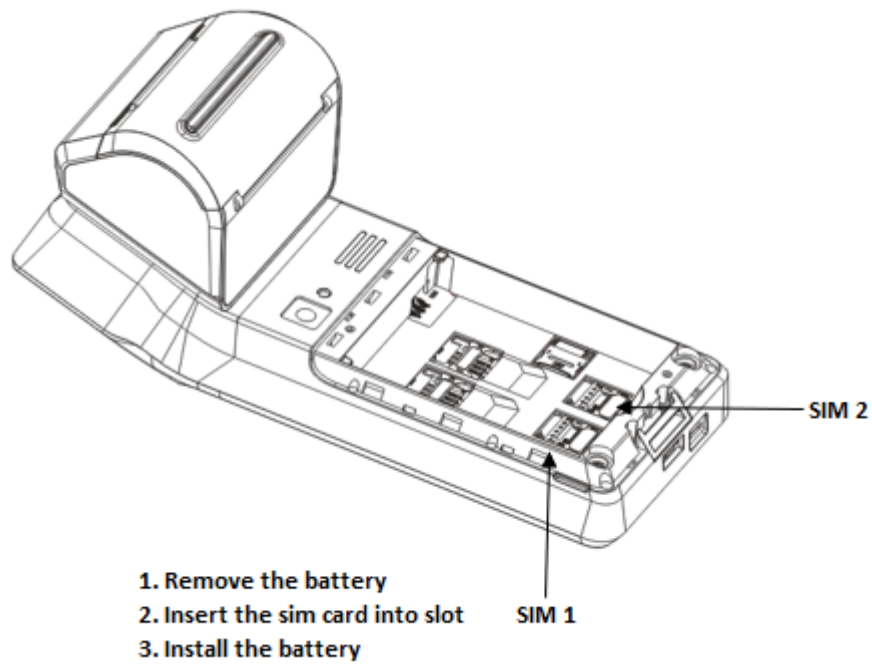


## 3.Install/Remove battery





## 4.Insert/Remove SIM card



# **Troubleshooting**

## **Problem 1: charge failure**

Solution: (1) Check if the plug is inserted correctly.

(2) Ensure that micro USB charging port has good contact.

## **Problem 2: heating**

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

## **Problem 3: crash**

Solution: a. Long press power button to turn off, then turn on.

b. Press reset button to restart device.

c. Contact SMARTMATIC support team.

## **Problem 4: Other problems**

Solution: Contact Aratek for support, website: [www.aratek.co](http://www.aratek.co)

# **Technical Specifications**

<b>Basic</b>	<b>Operating System</b>	Android 8.1
	<b>Processor</b>	MT8735 Quad-core 1.3GHz
	<b>Memory</b>	2G RAM + 16G ROM
	<b>Display</b>	5 Inches 720*1280 Pixels IPS LCD
	<b>Resolution</b>	720*1280 IPS
	<b>Camera</b>	13 MP Auto Focus (Rear)
	<b>Expansion Card</b>	TF Card, Up to 64G
	<b>Printer (option)</b>	2 Inches Thermal Printer
	<b>Battery</b>	10000 mAh/3.7V Hi-Performance Li-ion
	<b>Charging</b>	DC 5V/2A
	<b>Weight</b>	585g
	<b>Dimension</b>	210*85*90 mm (L*W*H)
	<b>Accessories</b>	Power adapter, USB cable
	<b>Temperature and Humidity</b>	Operation: 0°C~45°C, 10%~75% Storage: -20°C~50°C, 5%~85
<b>Biometrics</b>	<b>Type</b>	FAP20/FAP30/FAP45
	<b>Platen Area</b>	21.0*16.0 mm
	<b>Sensing Area</b>	20.3mm*15.2mm
	<b>Image Size</b>	Image Size: 300*400
	<b>Image Resolution</b>	500 dpi
	<b>Grayscale</b>	256 level
	<b>SIM Card</b>	Micro Sim Card *2
	<b>SAM Card</b>	PSAM Card *2
	<b>Wi-Fi</b>	802.11 b/g/n
	<b>3G</b>	WCDMA B1 (EU) or WCDMA B2/ B5 (US)
	<b>4G</b>	LTE-FDD:B3 / B5   LTE-TDD: B40 (EU) or LTE-FDD:B4 / B7 / B28 (US)
	<b>GPS</b>	PS/Glonass/A-GPS
	<b>Bluetooth</b>	Bluetooth 4.0
	<b>USB</b>	USB 2.0 *1, Micro USB (OTG) *1
<b>Credential Reading</b>	<b>NFC</b>	ISO/IEC 14443 A/B
	<b>2D Barcode</b>	1D, 2D, PDF417, QR code, Code 39, Code 128, DataMatrix, UPC-A, etc.
	<b>Smart Card Reader</b>	ISO 7816
	<b>MRZ Reader</b>	ICAO 9303 e-passport , EN 60950-1: 2009, FCC 47CFR Part 15 Class A, EN 55024: 1998 + Amd1:2001 + Amd2: 2003

#### FCC Statement

1. 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.

(2) This device must accept any interference received, including interference that may cause undesired operation.

2. Changes or modifications 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.

#### SAR Information Statement

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radiofrequency (RF) energy set by the Federal Communications Commission of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health. The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg. \* Tests for SAR are conducted with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output. Before a phone model is available for sale to the public,

it must be tested and certified to the FCC that it does not exceed the limit established by the government adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. The maximum scaled SAR in front of face is 0.225W/Kg and extremity is 1.158W/Kg. While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement for safe exposure. The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RFexposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of <http://www.fcc.gov/oet/fccid> after searching on

FCC ID: 2AGUJMARSHALL Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications Industry Association (CTIA) web-site at <http://www.wow-com.com>. \* In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.

#### Body-worn Operation

This device was tested for typical body-worn operations. To comply with RF exposure requirements, a minimum separation distance of 10mm must be maintained between the user's body and the handset, including the antenna. Third-party belt-clips, holsters, and similar accessories used by this device should not contain any metallic components. Body-worn accessories that do not meet these requirements may not comply with RF exposure requirements and should be avoided. Use only the supplied or an approved antenna.