Mobile ID Terminal- Marshall



Operational Manual

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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.

XDo not disassemble or modify the device.

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

XDo 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.

XDo 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





- 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



long press power button FOR 2 seconds to do 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: <u>www.aratek.co</u>

Technical Specifications

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