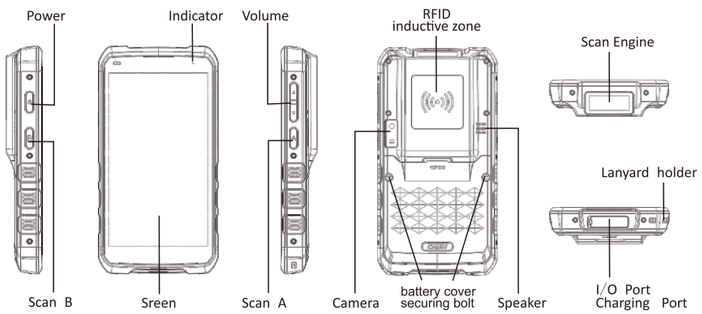
Android Handheld Data Terminal

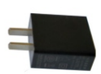
Equipped with an Android 4.2 operating system, a 1.3Ghz quad-core processor and dedicated readers for data capturing (1D/2D barcodes, RFID), OBM-A8 is a reliable and powerful 3G Mobile Data Terminal. It can be used in a variety of specific contexts such as inventory management, warehousing, medical supplies control, retail stores supervision, logistic operation, parking lot fare collection, FMCG distribution, fixed assets management, procurement fair ordering, admission ticket verification, and etc.



Accessories

battery

unscrew the battery cover securing bolt to load or replace a new battery.



usb power adaptor

use together with the micro-usb cable to charge the handheld battery.

micro-usb cable

connect the handheld to the computer for data synchronization or use with the power adaptor to charge the handheld battery.

lanyard

place through the lanyard holder and hang on the wrist preventing drop of the handheld.

Safety Cautions

Please read the following concise rules. Violation of these rules may cause danger or infringement of the law.

Boot in safety: Don't switch on the handheld when wireless device is forbidden or is to cause interference and danger.

Interference: all wireless devices may be subject to radio interference which may affect their performance.

Fare use: the handheld can be only used in the purpose described in this manual.

Maintenance: only technically qualified person can disassemble the handheld.

Accessories and battery: use only approved accessories and battery. Don't connect to inconsistent products.

Water-proof: the handheld is not water-proof, please keep it dry.

Data backup: please make a backup for the data saved in the handheld.

Connection: If in need of connecting to other devices, please obtain necessary safety instructions from their manual or manufacturer. Never connect to an inconsistent device.

Hardware test: this icon provides not a phone call dial but a test service entry. By dialing a specific code, testers can enter the test mode to check if the hardware works well. Test items include screen display, keypads, speaker, wireless connections and some other performance. It is usually used in maintenance service to identify problems quickly. The specific code is generally open to professional maintenance persons and testers only.

Battery Charging

Connect the usb power adaptor with the micro-usb cable then plug one end into the power outlet and the other end into the Handheld charging port. A charging icon will be shown on the screen status bar. When it is fully charged, a full battery icon will be shown instead.

CAUTIONS:

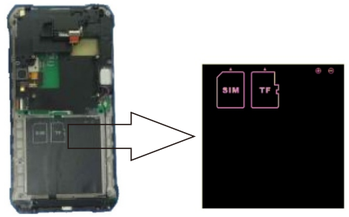
1. The Handheld accepts only authorized battery and charger;
2. For first time charging, please make sure the charging time is over 12 successive hours;
3. Battery may self-discharge. Please charge up the battery before use if the battery stands idle for a long period;
4. If a fully charged battery's life goes short greatly, please replace the battery with a new one;
5. Do not impact，shock or throw the battery violently, or it may cause leakage, damage or even explosion.

SIM /TF card installation

To connect the Handheld to a CDMA/GSM network, a SIM card must be inserted in the card slot before power-on.

The Handheld also come with a TF card slot which supports storage up to 32G.

Unscrew the battery cover securing bolt and remove the cover and the battery.



CAUTIONS:

1. The touch of the metal plate of the SIM card may cause data loss and damage;
2. Put the SIM card far away from magnetism and electricity.
3. As a professional data collecting equipment, the Handheld transfers data instead of voice via the CDMA/GSM network. It provides no voice input parts such as microphone.

Data Collecting

The Handheld comes with a standard laser scan engine for quick, easy and professional capture of a bar code.

A 2D scan engine for reading QR code is also available under request.

Another option is the RFID reader. It is used to decode an electronic tag. It can come with the laser scan engine or the 2D scan engine or install alone.

However, only one scan engine can be installed.

Press Scan A on the left side or Scan B on the right side of the Handheld to invoke the scan engine. When the red beam (laser scan engine) or the square light (2D scan engine) is emitted from the scan window, aim it at the bar code/QR code and the information contained in the code will be captured.

The use of the RFID reader is even more convenient. Just put the electronic tag beneath the RFID inductive zone and the decode program will automatically capture the information in the tag.

CAUTIONS:

1. Dust on the scan window may impair the scan performance. Use a soft cloth not the finger to wipe it regularly.
2. the scan angle and distance may affect the scan performance. Try to adjust the angle and distance when the scan result is not desirable.
3. Request for a DLL tool if an APP is to launch the scan engine or the RFID reader.

Technical Parameters

SYSTEM ARCHITECTURE

Processor: 1.3GHz quad-core
Operating System: Android 4.2
Memory: 1G RAM/8G ROM
Storage Expansion: microSD slot (up to 32G)
Display: 5.5" IPS (1080*720)
Touch Panel: glass capacitive touch
Battery: Li-ion 3.7V, 4800mAh

MECHNICAL

Dimensions: 84mm x 161mm x 24mm
I/O ports: Micro USB
Charging Power: 5V/1A

PERFORMANCE

Scan engine: standard linear 1D scanner (optional 2D imager)
RFID reader: ISO 18000-6C protocol UHF, max reading range 3m
Camera: 5.0 megapixel
GPS: embedded GPS / AGPS

WIRELESS CONNECTIVITIES

WWAN: GSM/G PRS/EDGE(850/900/1800/1900MHz) WCDMA (850/2100MHz)
WLAN: ieee 802.11 a/b/g
WLAN Security: WEP, WPA, WPA-PSK
Bluetooth®: v4.0 (compatible with 2.1+EDR)

Warning 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.

Any 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.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.