Marktrace RFID

MR6051B UHF Bluetooth Handheld Reader User Manual

(V1.0)

CATALOG

1, Produce Presentation

1.1 Product features

- Support ISO18000-6C (EPC-GEN2) protocol.;
- Working Frequency: 902.75-927.25MHz
- Focused on goods tracking and data collecting;
- Data Transmission: Bluetooth 2.0;

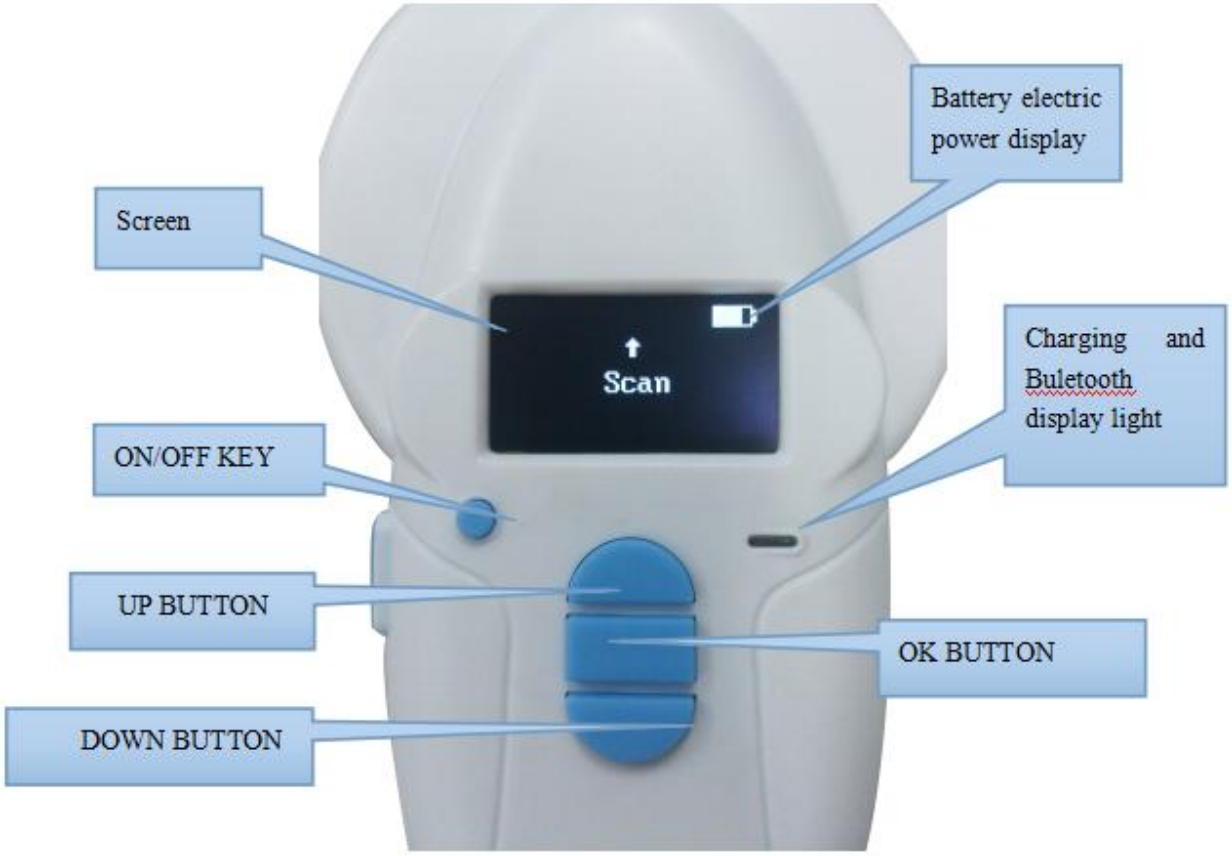
1.2 Produce description

MR6051B is a portable handheld RFID reader, operation is simple, it Support Bluetooth to transmit data.

1.3Applications

- Animal tracking
- Parking lot
- Warehouse and logistics
- Produce line
- Assets management

1.4 Photos


Battery electric power display
Screen
Scan
Charging and Buletooth display light
ON/OFF KEY
UP BUTTON
OK BUTTON
DOWN BUTTON

2, Parameters

Model	MR6052B
Working Frequency	ISM 902.75-927.25MHz
Protocol	ISO18000-6C, EPC Gen2
RF Power	MAX 30dBm, software adjustable
Identify Distance	Up to 2 meters (maximum)
Indication	One buzzer inside
Data Interface	Bluetooth 2.0，USB 2.0
Bluetooth Communication Distance	15 meters
Power Supply	3.7V 1400mAh lithium battery
Processor	ARM 32-bit Cortex™-M3 CPU Core
Memory	20KB (Store 500pcs 12bits EPC code)
Standby Time	9 hours
Size	150 mm * 80 mm X*35 mm
Temperature	-5～40℃

3 Quick Start

3.1 ON/OFF

Press on/off button will open reader, after open, blue LED will display; Press on/off button 3 seconds will off reader, meanwhile buzzer will beep twice as off indication.

Reader without any operating for 2 minutes will off automatically and buzzer will beep twice as indication.

3.2 LED

（1）LED1：Red LED means charging；

（2）LED2：Jade green LED means fully charged；

3.3 Tag Reading

Reader was open, choose Scan mode via navigation key, press OK key, reader start to reading. Reader in reading, orange LED will display, read tag success, yellow green LED will display.

3.4 Tag Data Display

Reader connect to mobile phone or laptop via bluetooth, you can open bluetooth tool on mobile phone or laptop, bluetooth tool will receive tag ID and display these IDs.

3.5 Bluetooth Function

Open reader, Enable Bluetooth via navigation key, after enable bluetooh, Blue LED will display. In this time you can use mobile phone or laptop to match reader. Reader name is “HC-06” and password is “1234”, Bluetooth connect success, blue LED will display always.

Bluetooth data output format:：

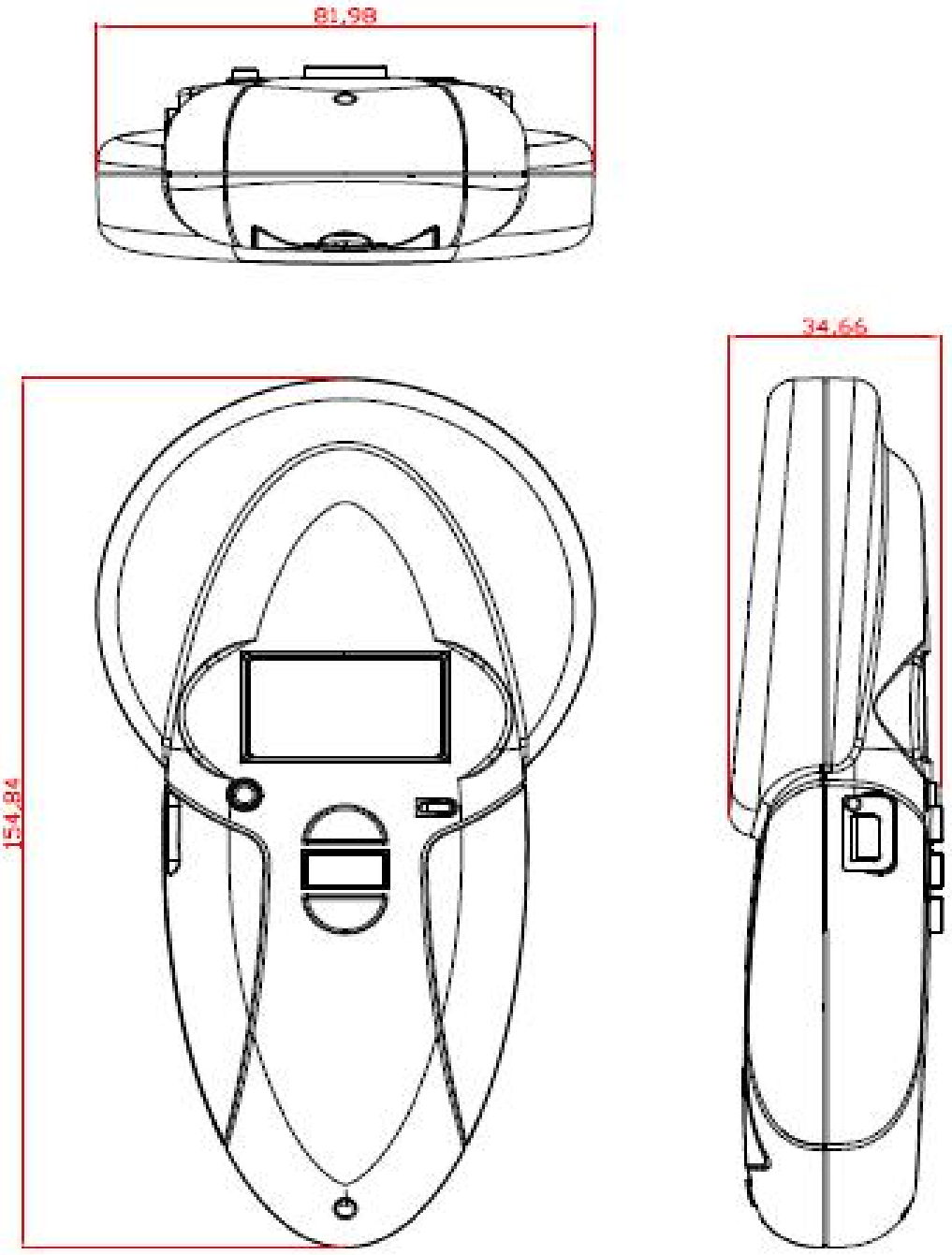
*	length	EPC	0x0D 0x0A

for exampl：*C123456789012345678908EC7 EPC data in ACSII，C is the length of EPC，EPC is 12 bytes“123456789012345678908EC7”。

3.6 Charging

Plug USB can charging. Red LED means charging, jade green LED means fully charged.

3.7 Structure Description



FCC Statement

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.

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

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.

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