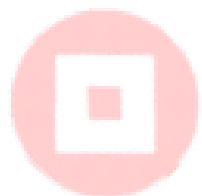


# AL-100 Quick User Manual

香港商永道無線射頻標籤有限公司  
臺灣分公司



# UHF Handheld Reader

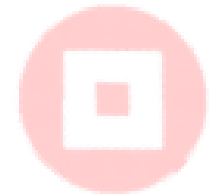
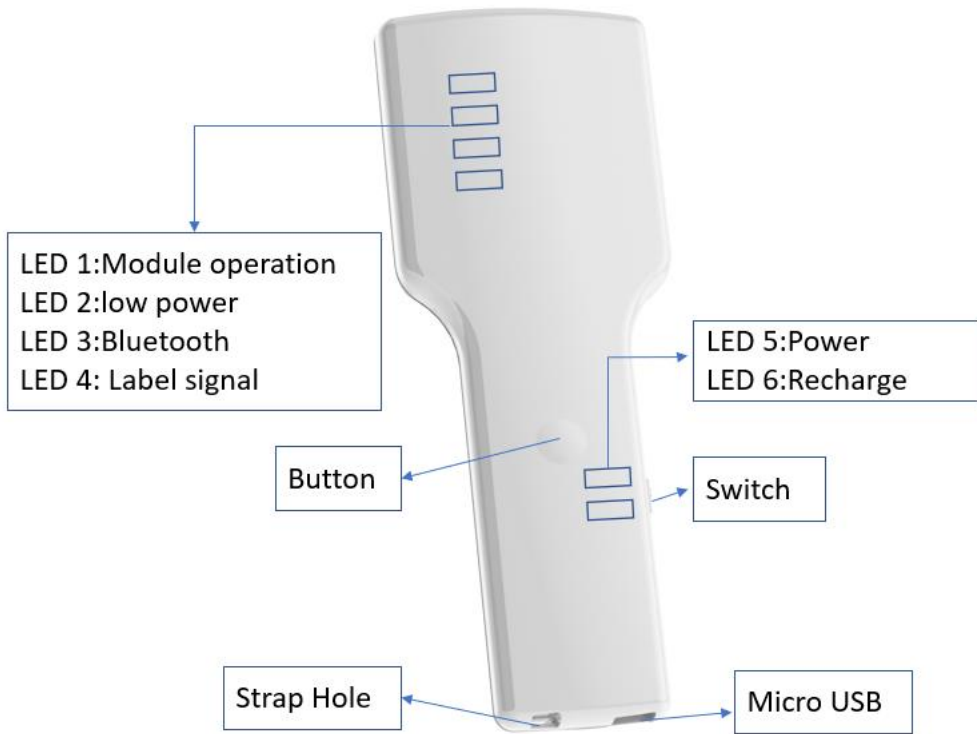
## AL-100 manual



台灣分公司  
Taiwan Branch.



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## AL-100 Quick User Manual

This manual can help you quickly start your AL-100 handheld reader, including reader settings, connection methods, and software testing.

### RFID solution

Software	AL-100 Software development method provided - AL-100 SDK(Android) - HID Keyboard Mode
LED	LED 1:Module operation-(Green) LED 2:Low power-(Yellow) LED 3:Bluetooth-(Blue) LED 4: Label signal-(Red) LED 5:Power-(Green) LED 6:Recharge-(Red)
Tag	<ul style="list-style-type: none"> <li>● General label</li> <li>● Metal tag</li> <li>● Customized label</li> </ul> <p>The tag frequency range covers 860-960MHz, and you can freely choose the required RFID chip (NXP, Impinj, Alien)</p>
Air Interface Protocols	EPC Global UHF Calss 1 Gen2 / ISO 18000-6C
Transmit Power	0 to +25dBm(1dBm/per step)
Frequency Region	US , TW , CN , JP , VN
Antenna	Circular polarized
Communication	Bluetooth : Version 4.2 Bluetooth rage : 8m(26ft) Micro USB : Communicate with the selected computer
Nominal Read Range	3m (16ft) depends on tags
Nominal Write Range	1m (10ft) depends on tags
Battery Pack	Non-Removable , rechargeable 3.6V Lithium Polymer 1515mAh, 4 watt hours
Operating Temperature	-10°C to +40°C
Charging Temperature	5°C to +40°C
Storage Temperature	-40°C to +60°C
Humidity	5% to 85% non-condensing
Dimension	190 mm x 73 mm x 18 mm
Weight	155g

## Setting

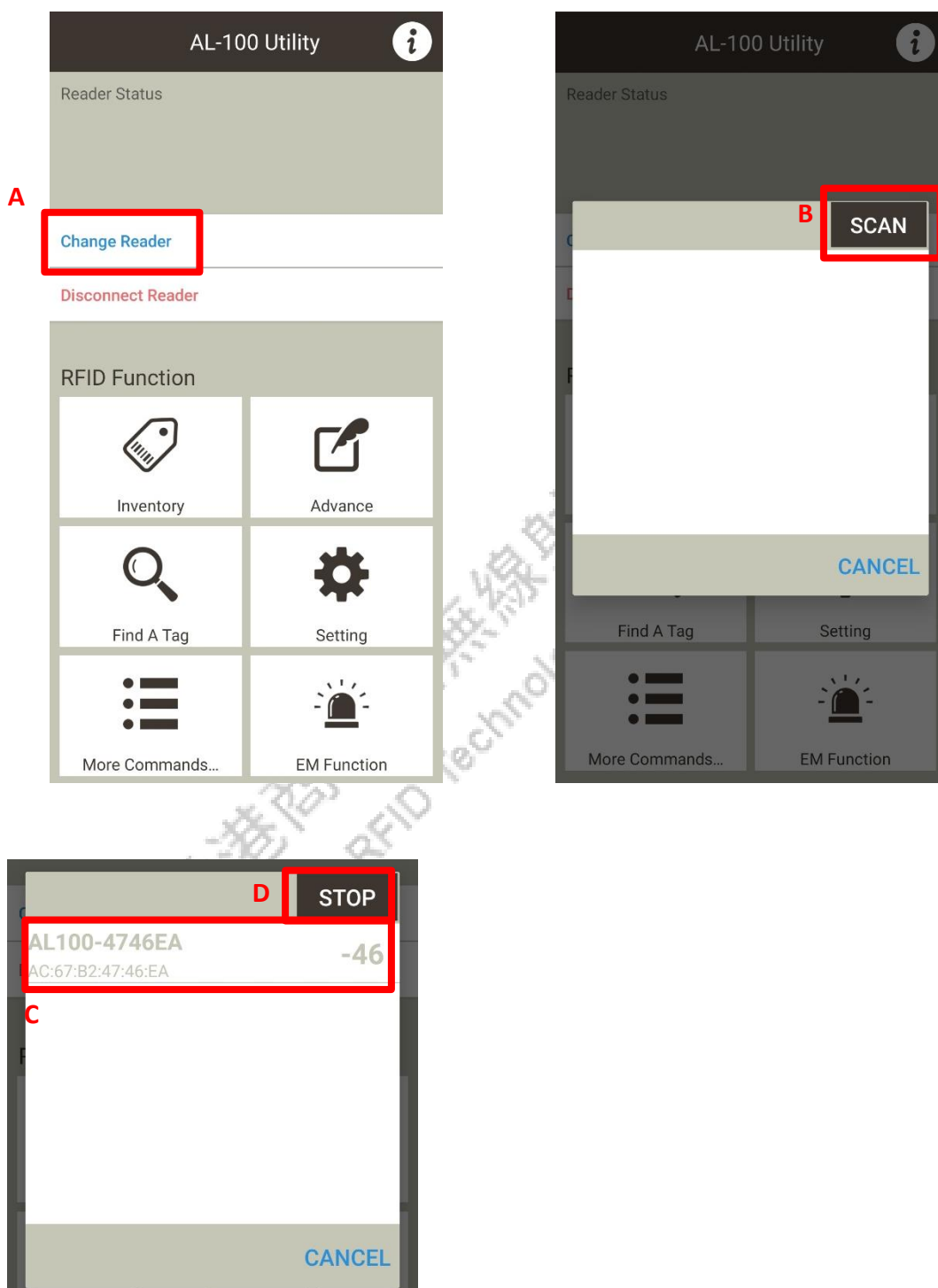
### 1. Connect with AL-100 Reader

A. Open the App and click Change Reader ◦

B. After clicking SCAN, the App will automatically scan the surrounding Bluetooth devices and display AL-100 on the screen ◦

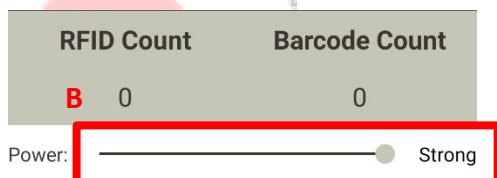
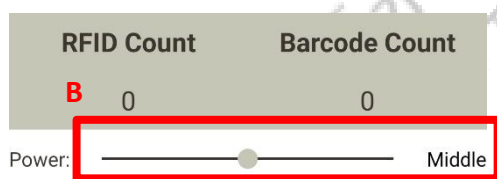
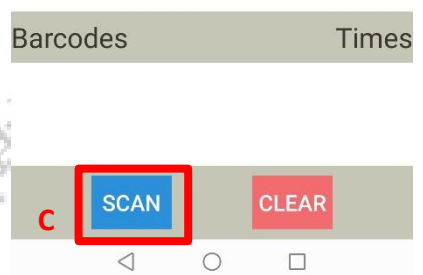
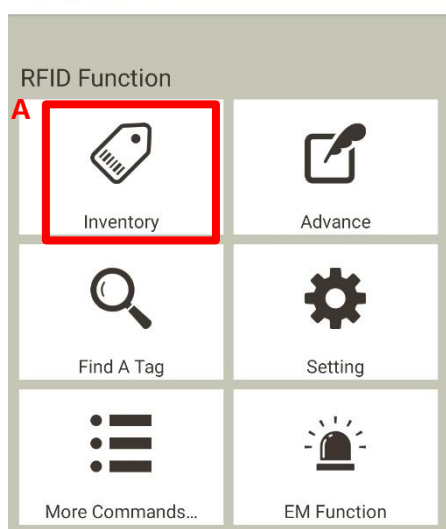
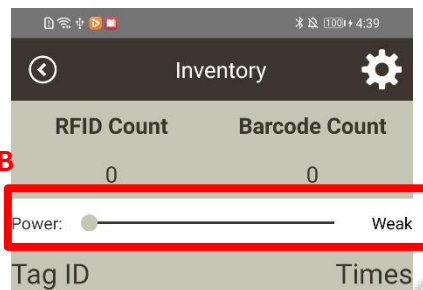
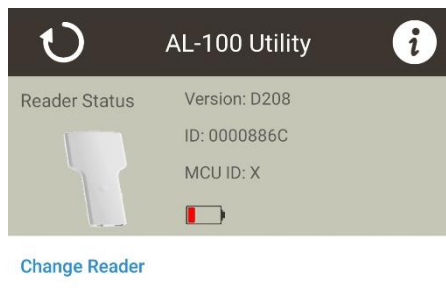
C. Click the **AL-100-xxxxxx** (xxxxxx is the MAC number of the module) device (must be in a non-scanning situation) ◦

D. If you cannot select, please click STOP first, and then select the AL-100-xxxxxx device ◦



2. Use AL-100 Utility to read tags

- A. Click the RFID Function of Inventory ◦
- B. Pull the Power bar to set the power level ◦
- C. Place the RFID tag in the reading range of the handheld, click SCAN or press the button on AL-100, and you will see the tag displayed in the list below after the start ◦

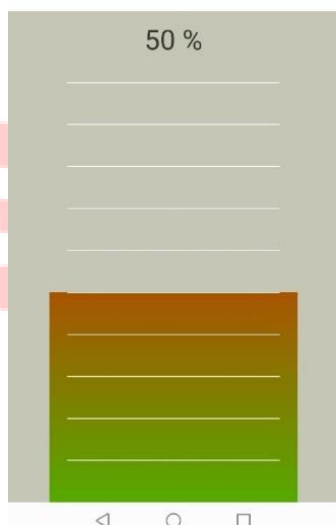
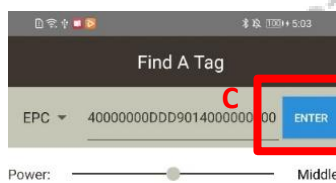
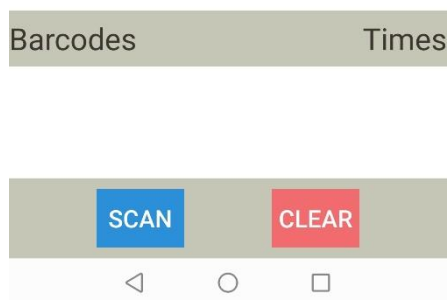
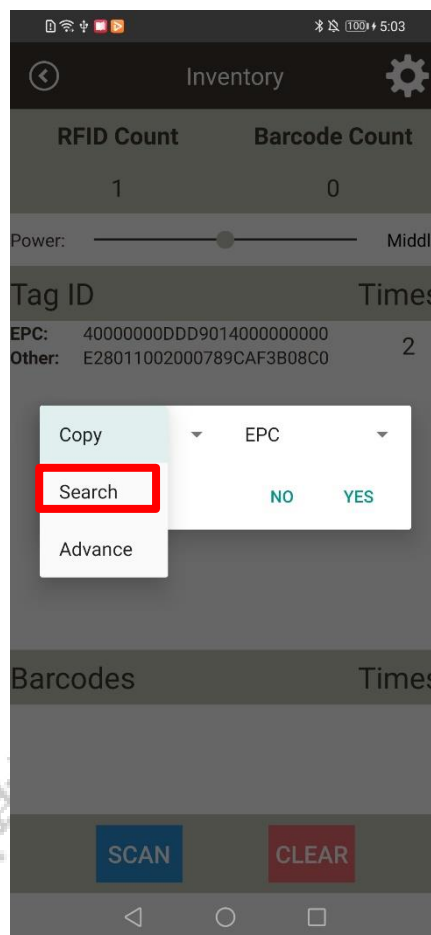
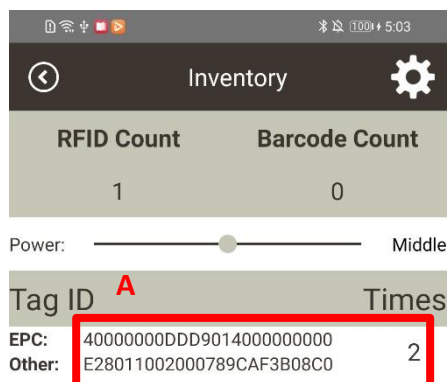


3. Use AL-100 Utility to Search for tags

A. Press above the EPC code ◦

B. Click the Search function ◦

C. Click the Enter item, you can press the read item to start searching ◦



4. Use AL-100 Utility to Set EPC, TID, USER

- A. The reading method can be selected by button or software ◦
- B. Select the information to be displayed in the window in the Other Bank field ◦
- C. Move AL-100 to the label range to be read, the read information will be displayed in the list below ◦





5. Use AL-100 Utility Function setting

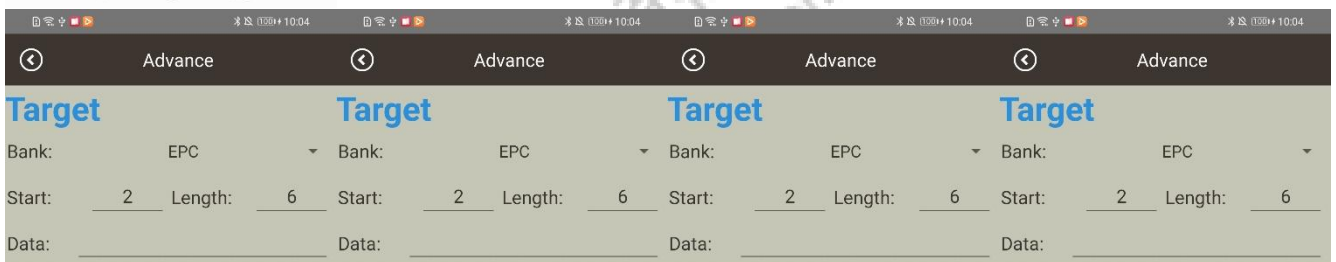
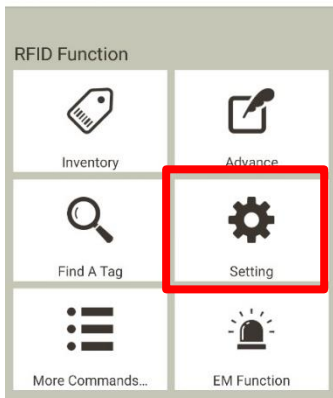
A. Click Advance on the main screen to select function settings ◦

B. Move the screen to the right from the bottom of the screen to select read, write, lock, and delete functions. ◦

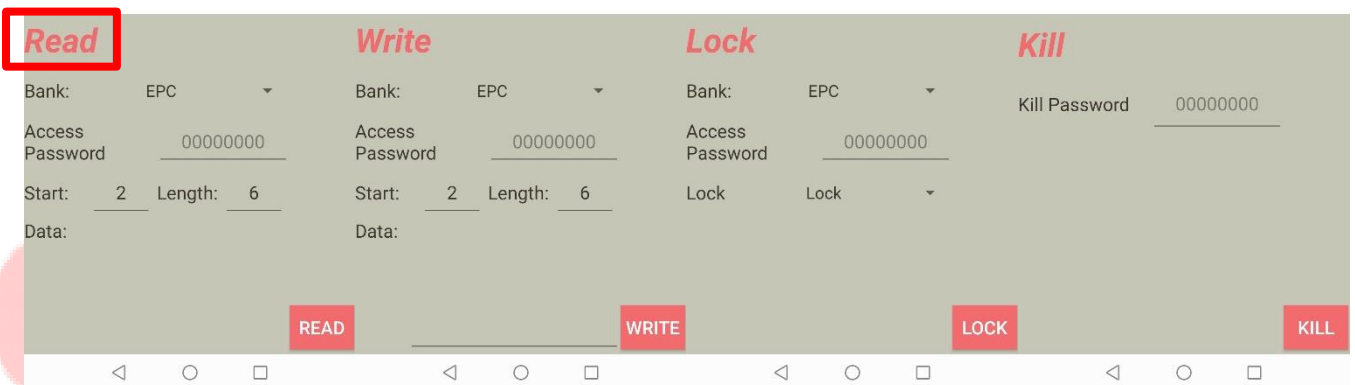


Change Reader

Disconnect Reader



B



## **NCC 、 FCC Warning**

--- For low-power radio frequency motors that have passed the type certification, the company, trade name, or user is not allowed to change the frequency, increase the power, or change the characteristics and functions of the original design without permission.

--- The use of low-power radio frequency motors must not affect flight safety and interfere with legal communications: If interference is found, it should be stopped immediately and improved to no interference before continuing to use.

---Legal communications in the preceding paragraph means that low-power radio frequency motors for radio communications that operate in accordance with the Telecommunications Law must endure interference from legal communications or industrial, scientific and medical radio wave radiant electrical equipment.

## **Federal Communication Commission Interference 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.

## **FCC Caution (15.19 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.

## **FCC Radiation Exposure Statement:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

## **Radiation Exposure Statement:**

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