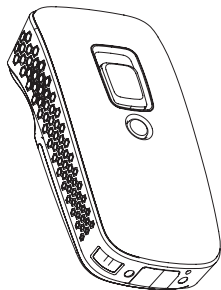# MOBILE UHF READER

Quick Guide

CAUTION
RISK OF EXPLOSION IF BATTERY IS REPLACED
BY AN INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING
TO THE INSTRUCTIONS.

Federal Communications Commission (FCC) Statement

15.21

You are cautioned that changes or modifications not expressly approved by the partresponsible for compliance could void the user's authority to operate the equipment.

15.105(b)

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 receive is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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 of the device.

FCC RF Radiation Exposure Statement

- This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
- For body worn operation, this device has been tested and meets FCC RF exposure guidelines. Use of accessories that contains metal may not ensure compliance with FCC RF exposure guidelines.

NON-MODIFICATION STATEMENT

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

CE FC RoHS

WARNING AND CAUTION

|	
⊘	1. Take any metals into contact with the terminals in connectors. 2. Use the scanner where any inflammable gases.
❗	If following condition occur, immediately power off the host computer, disconnect the interface cable, and contact your nearest dealer. 1. Smoke, abnormal odors or noises come from the scanner. 2. Drop the scanner so as to affect the operation or damage its housing.
🚫 Do Not	Do not do behavior below. 1. Put the scanner in places excessively high temperatures such as expose under direct sunlight. 2. Use the scanner in extremely humid area or drastic temperature changes. 3. Place the scanner in oily smoke or steam environment such as cooking range. 4. Be covered or wrapped up the scanner in bad-ventilated area such as under cloth or blanket. 5. Insert or drop foreign materials or water into scanning window or vents. 6. Using the scanner while hand is wet or damp. 7. Use the scanner with anti-slip gloves containing plasticizer and chemicals or organic solvents such as benzene, thinner, insecticide etc to clean the housing. Otherwise, it could not result fire and electrical shock but housing may be broken and injured. 8. Scratch or modify the scanner and bend, twist, pull or heat its interface cable. 9. Put heavy objects on interface cable. Do not stare the light source from the scanning window or do not point the scanning window at other people's eyes or eyesight may be damaged by direct exposure under the light.
⊘	Do not put the scanner on an unstable or inclined plane. The scanner may drop, creating injuries.
❗	Once the interface cable is damaged such as exposed or broken copper wires, stop using immediately and contact your dealer. Otherwise, it could result fire or electrical shock.

OUT OF THE BOX
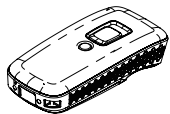
Mobile UHF Reader

Quick Guide

USB Charger Cable

Neck Strap

INTRODUCTION

Function Button

Trigger Button

LED Indicator

Micro USB port
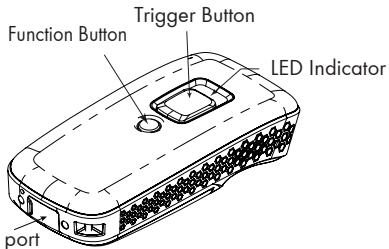
SPECIFICATIONS

|	
Frequency	915 MHz (US)/ 868 MHz (EU)
Standard	EPC Gen2/ ISO 18000-6C
Read Range	Up to 100CM (3.3ft.)
Memory	2MB
Housing	PC + ABS
Weight	103.5g (w/ battery)
Profile/Interface	BT HID, BT SPP, USB HID, USB VCP
Battery Life	6000 scans
Charge Time	4 hours (fully charged)
Radio	Bluetooth 2.1 + EDR (Class2)
Radio Coverage	10M/33ft. (line of sight)
Operating Temp	-10 to 40°C (14°F to 104°F)

BEEPER INDICATION

Single long beep	Power up
Single beep	Good read
Two beeps	i. Wireless connection
	ii. The reader successfully enters or exits configuration mode
Three beeps	Wireless disconnection
Three short beeps	The reader reads a tag while disconnected.
Four beeps (Hi-Lo-Hi-Lo)	Out of range/Poor connection
Five beeps	Low power

LED INDICATION

Off	Standby or Power off
Flashing Blue	Disconnected or Discoverable
Green for 2 sec	Good Read
Flashing Red	Low power
Solid Red	Charging

READING RFID TAGS

Below figures show the optimal orientation of reader and RFID Tag for reading.

RFID Tag

90° Reading Distance (> 100cm)

RFID Tag

30° Reading Distance (60 ~ 80cm)
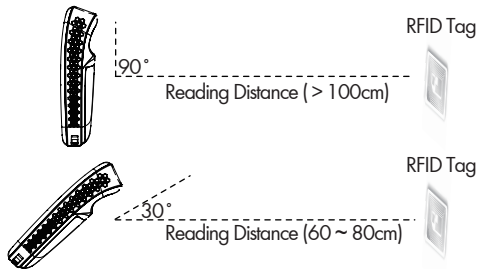
Reading distance may be impacted by the type of tag and environmental conditions. Above is based on Alien 964X Higgs-3 tag and tested in an office environment (25°C)

CHARGING THE BATTERY

1. Flip open the micro USB port on the reader.
2. Plug the micro USB connector into the port on the reader and USB A connector into a USB port on the host PC or power adapter.
3. Please fully charge the reader for 4 hours (or until the red LED indicator turns off) before use.

POWER UP

Press the Trigger Button for 2 seconds. The unit will emit one (1) long beep and light the LED red as confirmation that the reader has successfully powered up.

Trigger Button   Function Button
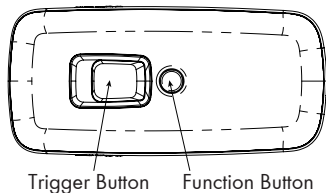
DISCONNECT/ CLEAR PAIRING RECORD

STEP 1:
Remove/Forget the the "UHF RFID reader" from the Bluetooth device list on your host device.

STEP 2:
Long press on the Function Button for 5 seconds without releasing. The unit will emit three (3) beeps and the blue LED will start flashing as confirmation that the reader is discoverable.
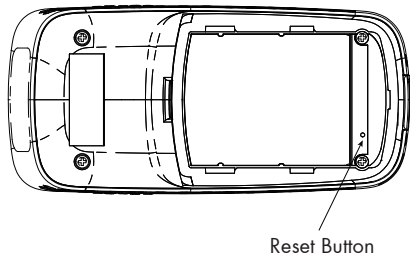
SHUT DOWN

METHOD 1:
By default, the unit shuts down automatically after 5 minutes of inactivity.

METHOD 2:
Using a needle or paper clip, press the Reset Button located at the bottom of the reader once. This will force a shut down.

Reset Button

GETTING CONNECTED

Connecting to a PC/ Notebook

1. Press and hold the Trigger Button for 2 seconds to power up the unit, after which the blue indicator LED will flash continuously.

2. Enter the PC/Notebook's Bluetooth application, and click "Add a Device".

3. In the Add a device window, double click "UHF RFID Reader" to connect.

4. When successfully connected the reader will emit two short beeps, and the blue LED indicator will shut off.

5. Launch a program that can accept HID keyboard input, such as Notepad. RFID Tag data read by the reader will output to that program.

Connecting to an Apple iOS Device

1. Press and hold the Trigger Button for 2 seconds to power up the unit, after which the blue indicator LED will flash continuously.

2. On the Apple iOS device, go to Settings > Bluetooth, and turn on Bluetooth.

3. In the discoverable devices list, select "UHF RFID Reader".

4. Upon establishing connection the reader will emit two short beeps and turn off its blue LED indicator. Also, the UHF RFID Reader will list as "Connected" in the Apple iOS device's Bluetooth devices list.

5. Launch an app that can accept HID keyboard input, such as Notes. RFID Tag data read by reader will output to that app.

6. If a virtual keyboard is required, please press the Function Button once. At this moment the reader will emit one short beep, and the Apple iOS device's virtual keyboard will pop out.
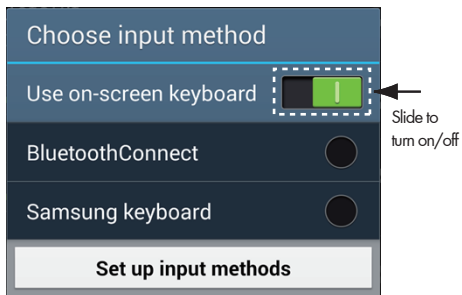
GETTING CONNECTED

Connecting to an Android Device

1. Press and hold the Trigger Button for 2 seconds to power up the unit, after which the blue indicator LED will flash continuously.

2. On the Android device, go to Settings > Bluetooth, and turn on Bluetooth.

3. In the available devices list, select "UHF RFID Reader".

4. Upon establishing connection the reader will emit two short beeps and turn off its blue LED indicator. Also, the UHF RFID Reader will list as "Connected" in the Android device's Bluetooth devices list.

5. Launch an app that can accept HID keyboard input, such as ColorNotes. RFID Tag data read by reader will output to that app.

6. If a virtual keyboard is required, please do the following:
   (1) Enter "Settings"
   (2) Enter "Language & Input"
   (3) Tap on "Default keyboard"
   (4) Turn off "Physical keyboard", or turn on "On-screen keyboard" and the Touch Keyboard will function properly again.

Choose input method

Use on-screen keyboard — Slide to turn on/off

BluetoothConnect

Samsung keyboard

Set up input methods

DEFAULT RFID SETTINGS

Operation Mode	= Trigger Mode
Read Tag Mode	= Single Tag
Tag Info	= EPC Code
Tag List Counter	= 64
Operation Timer	
Session Time	= Disable
Delay Time	= Disable
Scheme and Filter	
EPC Scheme Tag	= All
Accepted Filter	= Disable
Rejected Filter	= Disable
Affected Scheme Filter	= SGTIN-96
RF Parameters	
RF Output Power	= Low
Data Output Format	= Simple Cascade
Time Log Data	= Disable
RSSI Data	= Disable
EPC Scheme Data	= Disable
EPC Code Data	= Enable
EPC Code Caption	= Disable

RFID UTILITY

RFID Utility enables you to configure the reader with your PC/Laptop via USB connection. For more information on RFID Utility , please contact your local distributor.