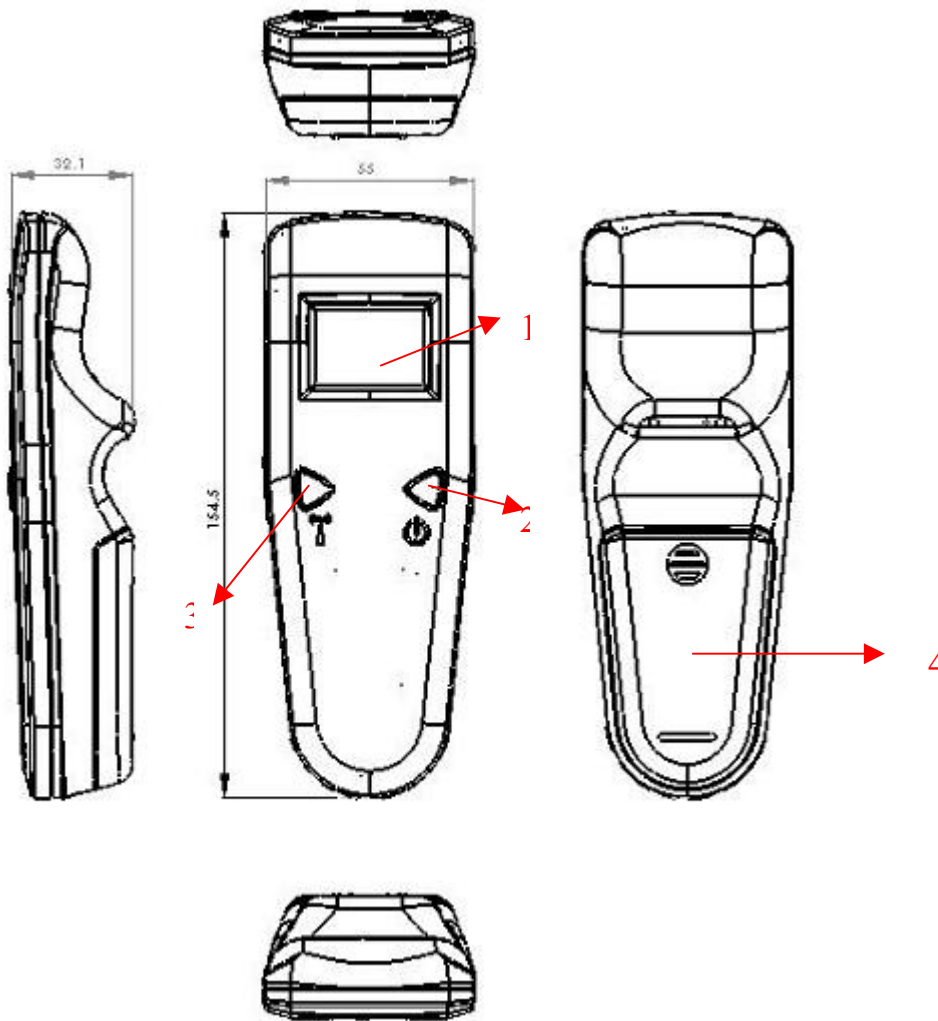


RFID (μ -Chip) Handheld
Reader
User Manual
Ver. 1.0

Sunlit System Technology Corp.,
2006.03.01

1. Hardware

1.1 Reader Outlook (unit: mm)



1: Graphic mode LCD Screen

2: Power Button

3: Scan key

4: Battery Set

1.2 Specification

1.2.1 FSTN LCD Module: 1.3 inch screen , Graphic mode , 101×67 dot , 37.5×31.6 (mm)

1.2.2 Power Button

1.2.3 Scan Key

1.2.4 Warning signal by built-in buzzer when fail in reading.

1.2.5 Size AA batteries *3 (only Alkaline or Ni-MH Battery)

1.2.6 Reading Distance: 2~4cm for Bottle Label , 5~7 cm for PVC

Card

- 1.2.7 Working Temp: up to 50°C
- 1.2.8 Storage Temp: up to 80°C
- 1.2.9 Power saving by automatically shut-down

1.3 Module/Antenna Specification

- 1.3.1 Voltage: DC 2.4 ~ 5V
- 1.3.2 Power Consumption:
 - Standby: With LED Backlight 70 ~ 80 mA @4.0V
 - Without LED Backlight 20 ~ 30 mA @4.0V
 - Scanning: 130 ~ 150mA @4.0V (Average)
- 1.3.3 Frequency: 2.40 ~ 2.4835 GHz
- 1.3.4 Impedance: 50 ohm
- 1.3.5 Antenna Gain: 0dBi
- 1.3.6 Radiation: Direction
- 1.3.7 Polarization: Semi Circular
- 1.3.8 Beam Angle Degree: 90°
- 1.3.9 Antenna Connector: PC board on-board using T/R line
- 1.3.10 Scanning frequency: 100 ms with 14ms PA turn-on time
- 1.3.11 RF output power: 250mW +/-10mW

2.Operation:

- 2.1 Continuously press Power Button with 3 seconds, reader will self-test F/W and then show out "金門高粱酒防偽判讀機及 F/W 版本" on screen with 3 seconds. Later on reader will stay at ready mode with "按掃描鍵掃描防偽標籤" on LCD screen.
- 2.2 Reader will turn off LCD backlight when no action during 7 seconds, in order to save power.
- 2.3 Reader will automatically turn off when no action after 180 seconds.
- 2.4 When reader automatically shuts off, LCD screen will display "關機中", user can press Scanning Key to back to ready mode.
- 2.5 Continuously press Scanning Key to read tag, LCD screen will display "掃描中..." at the same time. If no tag detected, LCD screen will display "無法偵測標籤 請重試一次" for 7 seconds and buzzer alarms 3 times.
- 2.6 When Reader successfully detected legal tag, LCD screen will display 10 digits number for 7 seconds.

- 2.7 When reader detects an illegal tag, LCD screen will display "警告!
偵測到不合法標籤" for 7 seconds with 3 alarms.
- 2.8 Press Power Button continuously for 3 seconds to turn-off reader.
- 2.9 Battery Power Status on screen.

FEDERAL COMMUNICATIONS 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.

CAUTION:

Any 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.

FCC RF Radiation Exposure Statement

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

This equipment must not be co-located or operating in conjunction with any other antenna or transmitter.