MR10A7 RFID Reader

Quick Start Guide

FCC WARNING 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 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:

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.

RF Radiation Exposure and Hazard Statement:

To ensure compliance with FCC RF exposure requirements, this device must be installed in a location such that the antenna of the device will be greater than 20 cm (8 in.) away from all persons. Using higher gain antennas and types of antennas not covered under the FCC certification of this product is not allowed. Installers of the radio and end users of the product must adhere to the installation instructions provided in this manual. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

CANADIAN DOC STATEMENT

This digital apparatus does not exceed the Class B limits for radio noise for digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de las classe B prescrites dans le Réglement sur le brouillage radioélectrique édicté par les ministère des Communications du Canada.

CE MARKING AND EUROPEAN UNION COMPLIANCE

Testing for compliance to CE requirements was performed by an independent laboratory. The unit under test was found compliant with all the applicable Directives, 2004/108/EC and 2006/95/EC.

WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT

The WEEE directive places an obligation on all EU-based manufacturers and importers to take-back electronic products at the end of their useful life.

ROHS STATEMENT OF COMPLIANCE

This product is compliant to Directive 2002/95/EC.

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.

NTRODUCTION

MR10A7 features the first smallest pocket RFID reader being one of perfect accessories for new tablet AIDC systems. It is a stand-alone portable RFID reader which can easily transfer tag data to a host server via advanced Bluetooth transmission or USB wired transaction. For heavy users at tough working conditions, MT10A7 provide industrial protection to against dust and water. It comprises a rechargeable 1600mA Li-Polymer battery and comes with innovative wireless integration technology in green concept to fulfill the industrial demands of 8-hour operation periods.

Inclusion, MR10A7 tends to be one of the best accessories in tablet RFID applications. It is designed to lead the new trends of tablet AIDC and/or management system in Logistics, Medical, Retail, Manufacturing, Education, Warehouse, Transportation, Ticketing, Access Control and varieties of AIDC Market Segments. The potential market demands can be encouraged and tremendous sales contributions is expected as well.

According to thejournal.com report, from 19.5 million unit tablets in 2010 to 208 million unit in 2014, it will be around 1067% growth within 5 years. With the growing demands of tablet applications, not only traditional iPC AIDC systems are gradually fade by Mobile/Tablet AIDC system, but also some industrial terminals are be replaced by rugged tablets. To complete the new trends, MR10A7 is designed to be one of innovated pioneers to lead the new trends of tablet AIDC and/or management system in Logistics, Medical, Retail, Manufacturing, Education, Warehouse, Transportation, Ticketing, Access Control and varieties of AIDC Market Segments.

In the market segments, we expect to gain 10% of tracking usages from innovative RFID applications. With the growing of Tablet AIDC markets, the expected sales target is set as USD1.2 million, or 10K pcs, at the first year then keep double the quantity as rapid growth of tablet AIDC demands in coming years.

In conclusion, MR10A7 is the smallest Bluetooth RFID reader with almost 40%~60% smaller than traditional ones. It tends to be one of the best accessories in tablet RFID applications. The potential market demands can be encouraged and tremendous sales contributions is expected as well.

FEATURES

The Smallest Pocket RFID Reader

Considering comfortable holding, MR10A7 minimizes the size down to W35×L95×H18 mm and eventually makes it easy to carry. It bears to stand as the world smallest RFID Reader.

Easy To Use

There are only two buttons for complex operations; one is trigger for reading tags and the other is a particular design to customized functions setting by Marson's unique Utility.

Industrial IP65 Waterproof Silicon Cover

The compact MR10A7 is the first IP65 waterproof portable RFID reader which is vital to professional pocket application users in tough working conditions.

8 Hour Operation Battery Life

MR10A7 comprises a rechargeable 1600mA Li-Polymer battery and comes with Marson's innovative wireless integration technology to make the power consumption even lower. The technical integration fulfills and makes users read RFID tags in longer operation periods, up to 8 working hours based on per tag reading every 5-second. MR10A7 is not only rich wireless integration technologies with productive ideas, but also less power consumption in green concept.

Effortless Pairing with Bluetooth

With the rapid growth of Bluetooth usage, unlike traditional readers, MR10A7 can perfectly pair with inventive portable tablet AIDC system with iOS, Android and Windows systems without worrying about compatibilities.
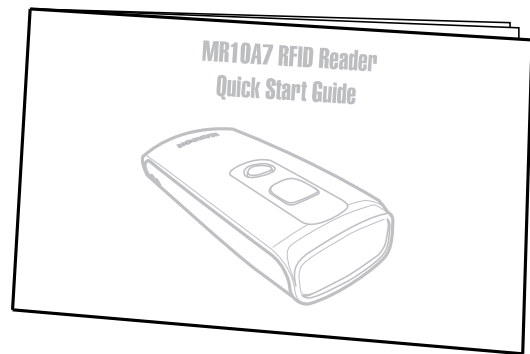
Customized Data Format

The data format of MR10A7, including time tag, reader ID, RFID data and others, can be easily customized by users. The flexibility of customizing data format completes various applications in particular scenario ever.
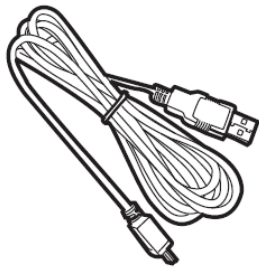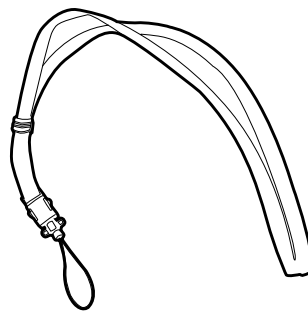
OUT OF THE BOX
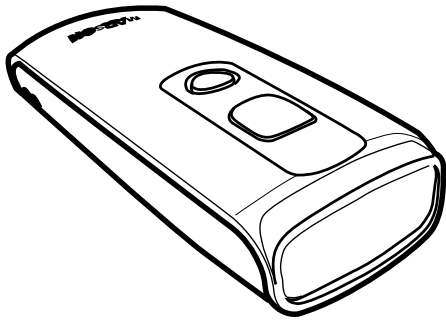
**MR10A7 RFID Reader**

Quick Start Guide

USB Charging Cable

Neck Strap

# SPECIFICATIONS

RFID Specifications	Frequency	13.56 MHz
	Standard	Support ISO-15693 & ISO-14443
	Reading Distance	ISO-15693 0 ~ 5 cm / ISO-14443 0 ~ 2.5cm
Communications	Bluetooth	Version 2.1 Class 2 V2.0, support SPP & HID
	Wireless Range	10 m
	Operating Frequency	2.4 GHz – 2.48 GHz
	USB	Virtual COM Port or HID
Electrical	Battery	Rechargeable 3.7V Li-Polymer 1600 mAh
	Battery Life	>10,000 times (1 read/ 5 sec)
	Working Current	< 200 mA
	Standby Current	40 mA
	Idle Current	< 500 uA
Physical	Dimensions	95L x 35W x 18H (mm)
	Weight	< 100 g
	Sealing	IP65
Environmental	Operating Temperature	-10°~ 50°
	Storage Temperature	-30°~ 70°
	Humidity	5%~ 90%

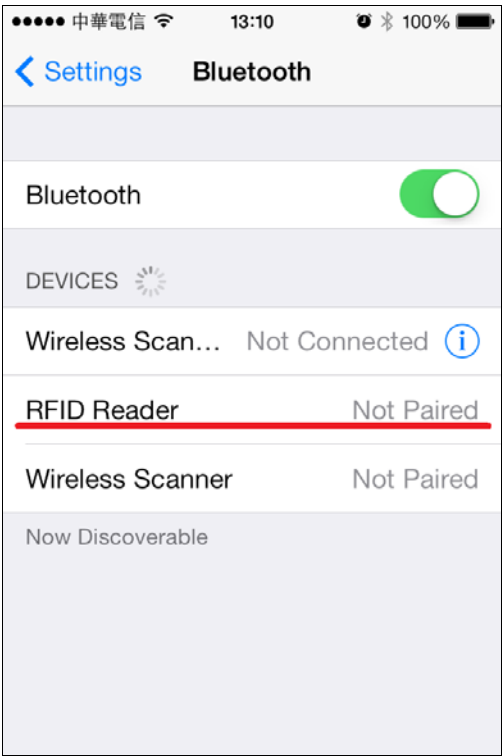# GETTING CONNECTED

1. Go to Settings
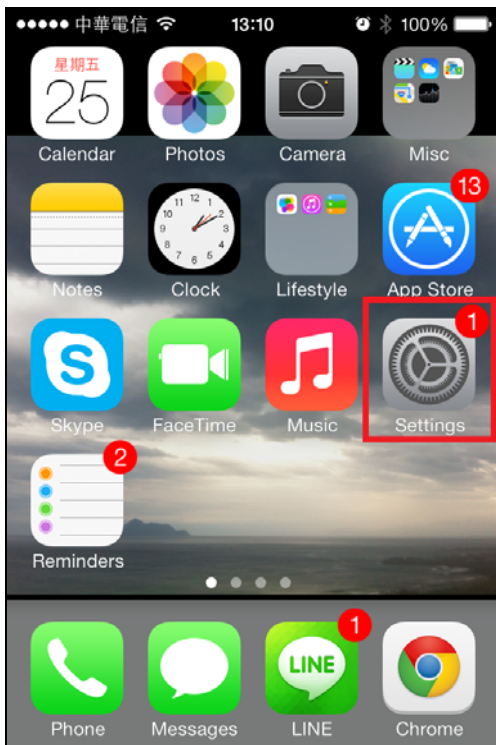
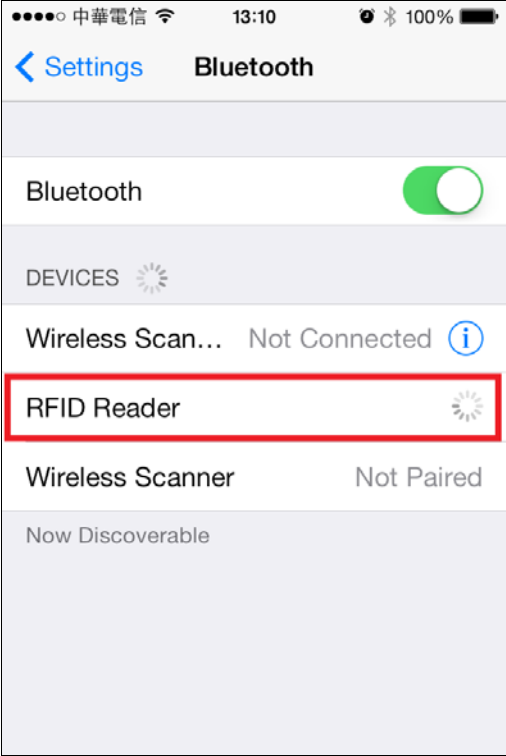2. Turn on and enter Bluetooth settings.

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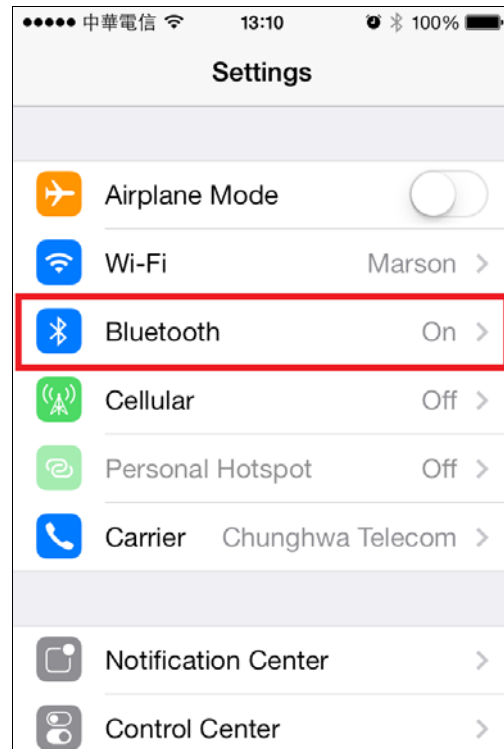
GETTING CONNECTED

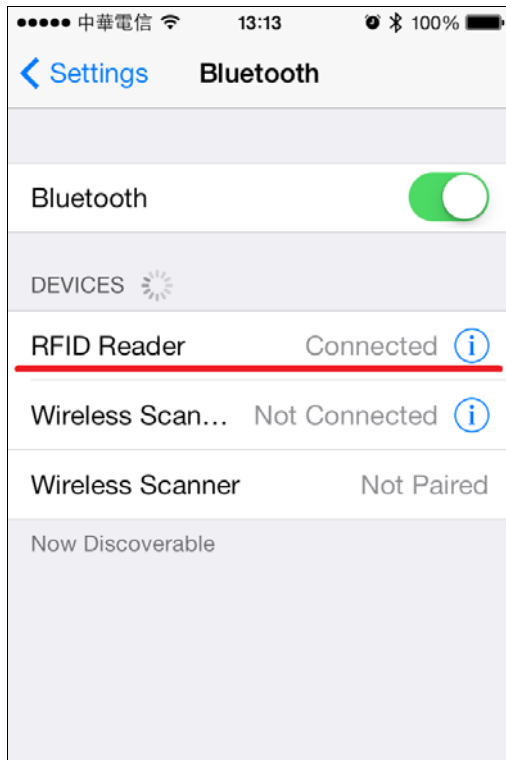3. Search for "RFID Reader"
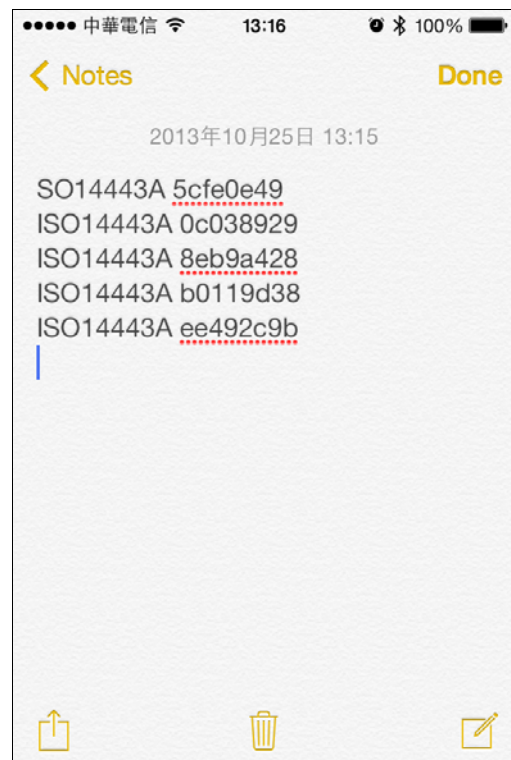

4. Tap on "RFID Reader" to connect.

GETTING CONNECTED

. Until "RFID Reader" is connected.

6. Go to Notes and you will be able to read.

For more information, please visit our website at
www.marsontech.com

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