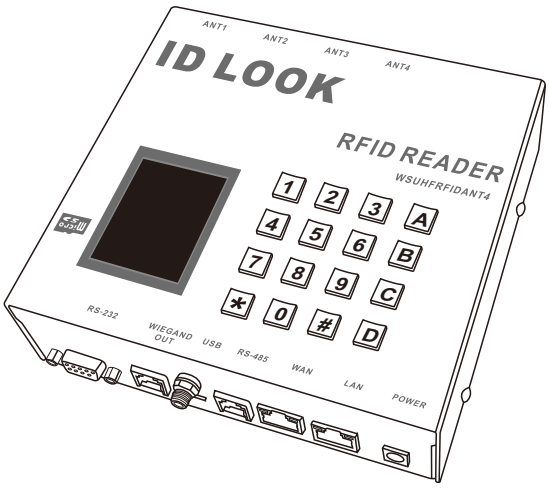
UHF RFID Industrial Reader

902~928MHz 2W

Model: WS-UHFRFIDANT4



Instruction manual

Content

Important event

- This product is in general use for the equipment on the premise of the development, design, manufacture. Do not use that require high security purposes, such as machinery or medical,aviation equipment, machinery and transport-related deaths are directly or indirectly relatedto the system.
- This product should be in this brochure by the instructions of the types and rated voltage power under the current proper use.If violation of this statement by the safety records of the supply operation, I am afraid our company cannot afford any of the responsibility.
- Do not self-decomposition, alteration, repair of the products also will cause fire, electric shock, fault, and dangerous.In addition, their decomposition, alteration, and repair the product, failure is not within the scope of warranty.
- The products are not waterproof, so please do not use and touch water. Take off and on also please note. Rain, spray, drinks,steam, sweat may be a failure.
- Use of this product, please be sure to use according to the statement recorded by the use of methods to operate.
  Please do not violate particular attention to the matterreminded to use.
- Please respect this statement recorded by the note. When consumers in contravention of this statement recorded note of the operation, I am afraid our company could not shoulder any responsibility.
- Products are defective, the Company will be responsible for free to amend the flaws, or to the same flawless product or its equivalent products in exchange. However, the Company does not assume based on the requirements of the flaw and loss responsibility.
- The Company reserves the right to retain without notice to users of the cases, the product of hardware / software (version upgrade) is with the right to edit.

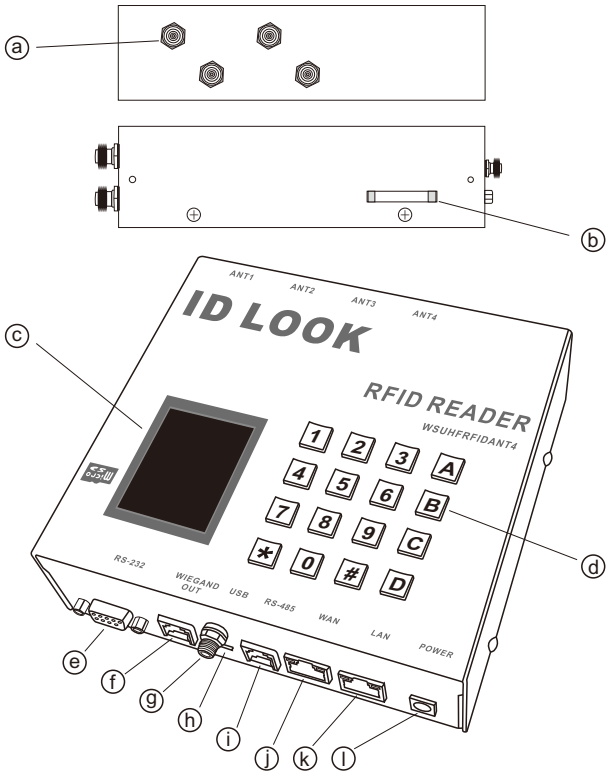
Declaration

This product meet different telecommunication regulation.

Warranty

The warranty time is within one year from purchased date. The warranty scope are used in normal situation and none vandalism. (Some function harmful out of warranty scope and Vandalism are Un-warranty).

Parts Description



ⓐ TNC Antenna port	ⓑ SD slot	ⓒ LCD display
ⓓ Keyboard	ⓔ RS-232 port	ⓕ Wiegand out
ⓖ WiFi antenna port	ⓗ USB port	ⓘ RS-485 port
ⓙ WAN port	ⓚ LAN port	ⓛ Power in

Specification

Frequency: USA(902~928MHz), China(920~925MHz)
Communication Protocol: EPC Class 1 Gen 2、ISO18000-6C、IS18000-6A/B
Antenna: 4 Port TNC antenna output
Output Power: 2W (33dBm)
Communication Interface: RS-232、RS-485、Wiegand、Rj-45、Wi-Fi、SD Card
Keyboard: 4X4
Reading Range: Able to reach 35 meter (depends on environment tag size or function)
Display: 2.2"240x320 LCD Screen
Memory Device: Micro SD (32G extendable)
Wi-Fi: IEEE802.11b/g Wireless Standard
Working Voltage: 12V 2A
Operating Temperature: -10°C to +60°C
Size: 160 x 150 x 47.7 mm

Wi-Fi Specification

2.4GHz 802.11b/g/n,compatible
Support IEEE 802.3、IEEE 802.3u
WiFi Client/AP/Router Mode
Support wps/wds
The range of baudrate: 1200~500000bps
Support transparent transmission mode
Support multiple security authentication-mechanisms:
WEP64/WEP128/ TKIP/ AES
WEP/WPA-PSK/WPA2-PSK
Support wireless roam
Support multiple network protocols:
Support two config methods:Serial/WEB

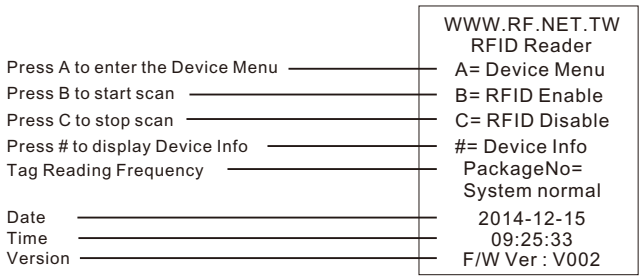
Accessory

Power Adopter 12V 2A *1 Fix Stand *2 Instruction Manual *1

Characteristic

Parameter	Min	Type	Max	Unit	Condition
Operating Condition					
Operating Temperature Range	-30		+70	℃	
Operating Supply Voltage		12		V	
Current Consumption					
Standby mode		190		mA	
Operating mode		1200		mA	2W Peak
RF Characteristic					
Frequency Range	902		928	MHz	
Output Power	15		33	dBm	
Other					
Display	2.2" TFT 240*320 Display				
Button	4 * 4 Keyboard				
Working mode	FHSS				
Antenna	Four Antenna				
Read prompt	Buzzer				
Support Area	Taiwan、USA、China、Korea				

Start Display



Instructions

Set up instruction

Press A to the menu, enter six digit password (default password: 888 888) press # to delete error and re-enter the menu (Figure 1). Enter the menu (Figure 2), when there is no indication over 5 min. it'll automatically jump back to the menu or press D to exit.

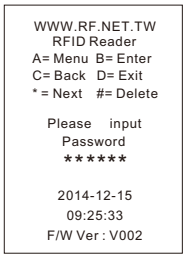


Figure 1

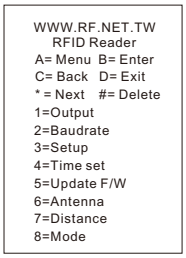


Figure 2

1=Output
Press 26 or 34 to set up output data, press B to the last page; Enter 1 and long press C (do not save) to the last page; Enter 1 and press D (save) to standby mode (Figure 3).

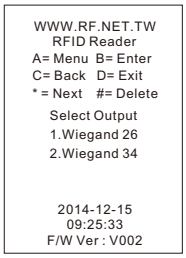


Figure 3

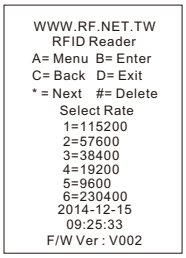


Figure 4

2=Baudrate
Set up RS-232 and RS-485 interface, press B to the last page; Enter 2 and long press C (do not save) to the last page; Enter 2 and press D (save) to standby mode (Figure 4).

3=Setup
Set up password, reset Wifi, RFID and voice, press B to the last page Enter 3 and long press C (do not save) to the last page; Enter D (save) to the home screen (Figure 5).

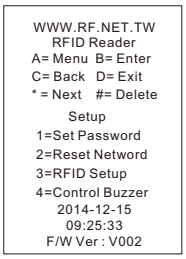


Figure 5

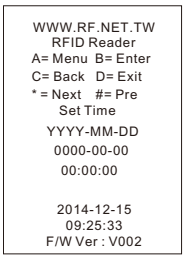


Figure 6

4=Time set
Set up date and time as order: year-month-date-hour-minute-second press B to the last page; Enter 4 and long press C (do not save) to last page; Enter 4 and press D (save) and back to home screen (Figure 6).

5=Update F/W
(Not Functioning)

6=Antenna
Set up Antenna Mode
Enter 6 and press B to the last page; Enter 6 and long press C (do not save) to the last page; Enter 6 and press D (save) to the home screen (Figure 7).

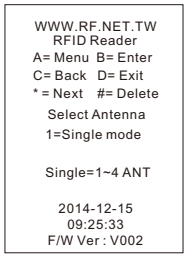


Figure 7

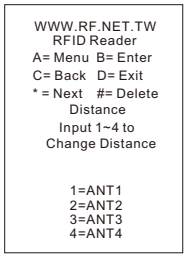


Figure 8

7=Distance
Set up Signal Strength
Enter 6 and press B to the last page; Enter 6 and long press C (do not save) to the last page; Enter 6 and press D (save) to the home screen (Figure 8).

8=Mode
Enter 8 and press B to the last page; Enter 6 and long press C (do not save) to the last page; Enter 6 and press D (save) to the home screen (Figure 9).

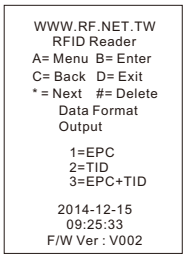


Figure 9

Rj-45 Connection

1. Set up Dynamic IP on PC, insert the LAN Port on the Reader.
2. Open browser and enter http://192.168.16.254,User Name: admin Password: admin. The internet set up is adjustable.

Wi-Fi Connection

1. Search SSID as serial-Wifi's through Wi-Fi. Password=12345678
2. Open browser and enter http://192.168.16.254,User Name: admin Password: Admin. The internet set up is adjustable.

Wiegand out Pin Identify (Data Output Interface)

From left to right is RS-485 D+、5V、WG+、RS-485 D-、GND、WG- (Figure 10).

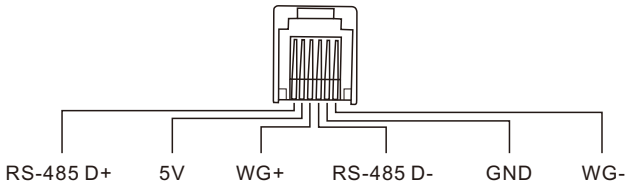


Figure 10

RS-485 Pin Identify (Reserved Communication Interface)

From left to right is 5V、5V、RS-485 D+、RS-485 D-、GND、GND (Figure 11).

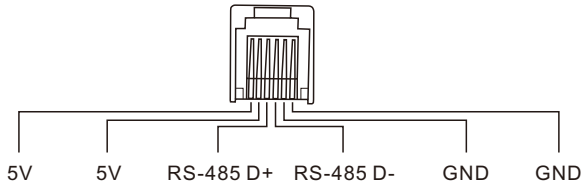


Figure 11

Install the Fix Stand

Install the Fix Stand underneath the device, then tighten the screw (Figure 12, 13).

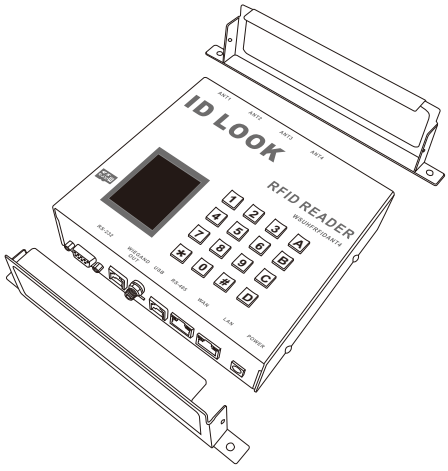


Figure 12

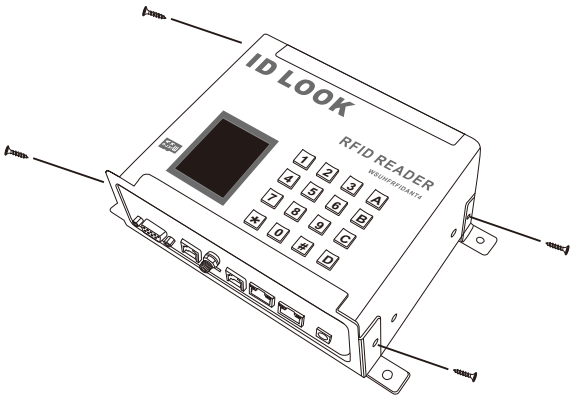


Figure 13

CE Caution Note (European Union)

Symbol of CE it accords with EMC regulation (89/336 / EEC) to represent this device, and the low-voltage regulation of European Union (73/23/EEC).
It represents to follow the following standard regulations of European Union (The bracket is a reciprocal international standard reciprocal international standard and regulation).

- ▸ EN 60950/A11: 1997/(IEC 60950/A4: 1996),The ones that includes information science and technology of apparatus of e-commerce safe.
- ▸ EN 55024: 1998 (IEC 1000-4-2, 1000-4-3, 1000-4-4, 1000-4-5, 1000-4-6, 1000-4-8, 1000-4-11) -' scientific and technological apparatus of information - The characteristic of interfere avoided - Restrain and test method
- ▸ Chapter 2 -Static release (ESD) Demand
- ▸ Chapter 3 -Radiate the static field demand
- ▸ Chapter 4 -The electron is transmitted / produced and washed (EFT) fast Demand.
- ▸ Chapter 5 -surge demand
- ▸ Chapter 6 -Resistance demand caused in field of wireless frequency.
- ▸ Chapter 8 -Magnetic field demand of electric frequency.
- ▸ Chapter 11 –Shortly cut off the demand of making a variation with the voltage transiently under the voltage.

EN 55022:1998/(CISPR 22:1997) ,Class B, ' "To assess information scientific and technological apparatus wireless restriction and way of interfering with the characteristic."

Administrative Regulations on the Low Power Radio Waves Radiated Devices

Article 12
Without permission granted by the DGT, any company, enterprise, or user is not allowed to change frequency, enhance transmitting power or alter original characteristic as well as performance to a approved low power radio-frequency devices.

Article 14
The low power radio-frequency devices shall not influence aircraft security and interfere legal communications; If found, the user shall cease operating immediately until no interference is achieved.
The said legal communications means radio communications is operated in compliance with the Telecommunications Act.
The low power radio-frequency devices must be susceptible with the interference from legal communications or ISM radio wave radiated devices.

FCC Consistent Declaration (U.S.A. Only)

Attention: FCC rule regulation, modified and changed must allowed by WENSHING Electronics company, otherwise that would make you operate this apparatus invalid. This apparatus adopted test, according to chapter 15 that FCC regulation, accord with Class B digital restrictions of device. These limits are designed to provide reasonable protection, avoid to having harmful interference at home's environment.

This device may have radiated wireless frequency energy. If don't allow the instruction manual, then may will interfere wireless communication. However, there is no any way to guarantee, it will not be interfered in particular installed. If this device really causes harmful interference, (It could be confirmed by turning on or off this device.) Advise you to try to use the following ways modifying the interference situation.

- ▸ Relocation receiving antenna or altering its direction.
- ▸ Increase the distance between device and receiver.
- ▸ Please connect this device to the outlet in the circuit different from the receiver.
- ▸ The following manuals is published by Federal Communications Commission, they must be helpful to all users.
- ▸ How to Identify and Resolve Radio-TV Interference Problems. (This manual can be obtained by relevant departments of publication of the U.S. government.)

  Government Printing Office, Washington D.C., 20402. Stock No. 004-00398-5

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

IMPORTANT NOTE: To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.