UHIF RFID Reader/Writer DOTR-900 User manual

Ver 1.0







- 1. This is a Demo Software manual of DOTR-900.
- 2. This manual is written based on the latest version of Demo program, it could be differed from the SW which you have now.



- 1. This manual is made for introducing brief information and usage of DOTR-900
- 2. This Radio facilities have possibility which is mixed to electric wave in using.
- 3. Do not put the device close to heat or water. It causes trouble.

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1.1 Basic Accessories





DOTR-900

USB Data / Charging Cable

Neck strap



Belt Clip



Adaptor (Option)



The Specification of the product is supposed to be changed without notice, in order to improving its performance and safety.



1.2 Part Name



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1. Power ON / OFF

- Power on: Press and hold the power switch for 1-2 sec, the device will be turn on with beep sound and Green LED.
- Power off: Press and hold the power switch for more than 2 sec, the device will be turn off with beep sound.
- Auto-off: if there is 5 minutes elapses without any action, the device will be turn off automatically with the ringing tone 10 seconds Alerts.
 - User san set "Auto-off" time by setting program
 "R900SETUP" which will be provide SDK.
- 2. Usage: user can use DOTR-900 in wired and wireless, with various Host devices.
 - 1) USB cable connection to PC or laptop.
 - 2) Bluetooth wireless connection to Smartphone, PC or laptop.
- 3. Paring standby Status (Bluetooth)
 - 1) To turn on the unit
 - Becoming in stand-by and being ready to pair with Bluetooth.
 Green LED flashes every two seconds.
 - 3) Beep sound twice when succeed in paring.

2. To Use

- 1. In Connecting and Reading
 - 1) Pressing "Trigger Button"
 - ✤ User can control "inventory" and "stop" in RFID host program.
 - 2) LED will be in Red during reading tags.
 - 3) The unit and the host device beep during reading tags.
 - Auto-off: 5 minutes elapses without any action, the ringing tone 10 seconds Alerts and then automatically turns off.
- 2. Warning Sound
 - When battery power is low, warning sounds in every 1 sec with Red LED
- 3. Memory.
 - Before or after connecting to host device, data of reading 100 tag is been saved in built-in memory.
 - 2) Transferring data when connecting a host player.



3.1 Connect to PC

How to connect to PC

** Demo program set up

Click the "RFIDHOST.msi" file in Setup RFIDHOST folder to set up the demo program.

- 1. USB Cable connection manual
 - 1) After turn on DOTR-900, connect the device to PC with USB cable.
 - 2) Click "rfidbthost.exe" to operate.
 - 3) Usually, DOTR-900 will be connected automatically with PC.

4) If DOTR-900 does not connect to PC, set up USB driver for proper connection.

- 5) user can set up driver on "new hardware device found" message.
- 6) If user can not find message, use driver software update in device manager.

7) Above are not working properly, please delete demo program and try 1) to 6) again.

- 2. Bluetooth connection manual
 - 1) Search DOTR-900 with Bluetooth manager on your PC.
 - 2) Add DOTR-900.(connection code : 1234)
 - 3) Click "rfidbthost.exe" to operate.
 - 4) If DOTR-900 does not connected to PC, please check comport.
 - 5) Comport checking is available in "device and printer." Check hard ware tab for proper device adding.

** Comport can be different depend on host devices (Usually R900 uses COM4)



3.2 Connect to Window CE device

How to connect R900 to Window CE device.

** Demo program set up

Make copy "rfidhost.wce500.cab" file in WCE500cab folder and move to Window CE device. Demo program setting is done.

Connection manual

- 1) Turn on Bluetooth function on your host device.
- 2) Run demo program (Click rfidhost.exe)
- 3) Enter Link screen (MENU-LINK)
- 4) Select COM3 port, click LINK button.
- ** If user can not connect to host device, try below solution.
 - 4) Search DOTR-900(HQ_UHF_READER) Link screen
 - 5) After DOTR-900 is found, Bind to COM3. And click LINK button.
- ** Comport can be different depend on host devices (Usually R900 uses COM3)
- ** Depend on host device, DOTR-900 searching is not available in link screen.
- ** This demo program meet WCE 5.0 standard. Depend on host device, this program is not available. Please contact manufacturer for further question.

3.3 Connect to Window Mobile device

How to connect R900 to Window Mobile device.

** Demo program set up

Make copy "rfidhost.wm6.cab" file in Smartphonecab folder and move to Window Mobile device. Demo program setting is done.

Connection manual

- 1) Turn on Bluetooth function of host device.
- 2) Search DOTR-900 with Bluetooth manager of host device.
- 3) Connect DOTR-900.
- 4) DOTR-900 connect properly with host device when green LED is flashing.
- 5) Run demo program. (Click rfidhost.exe)
- 6) DOTR-900 will be connect to host device automatically.
- ** If connection is not available, please try belows.
 - 7) Search DOTR-900(HQ_UHF_READER) Link screen
 - 8) After DOTR-900 is found, Bind to COM7. And click LINK button.

** Comport can be different depend on host devices (Usually R900 uses COM7)

- ** It is unavailable to search DOTR-900 in Link screen depending on host device. That time, Link COM7 directly without search.
- ** Our demo program is set WM 6.0 standard. This demo program may not work depending on version of host device. That time, contact the manufacturer to ask.



3.4 Connect with USB cable

Set up demo program for PC

REIDETHOST		
Welcome to the RFID	BTHOST Setup Wizard	
The installer will guide you through th	we steps required to instal RFIDBTHOS	T on your computer
WARNING: This computer program Unauthorized duplication or distributi or criminal penalties, and will be prop	s protected by copyright law and intern on of this program, or any potion of it. It ecuted to the maximum extent possible	ational treaties. say result in severe civil under the law.
	Cancel Clack	Next >

1. Click RFIDHOST.msi for PC demo program.





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3. Click Close to exit.

Connect with USB cable



1. Power on - Connect the USB Cable - device manager another device – HARVEMACdrive update. (user can set up "new hardware deviece found")



4. start – program – BizNara – RFIDHOST – rfidhost



2. Search USB driver.



3. C: - Program files – BizNara – RFIDHOST – USB Drive



5. Finish. Green lamp stop



3.5 Example for Bluetooth connection

Connection with Bluetooth

컴퓨터에 추가할 장치 선택 장치를 치속적으로 찾아 여기에 표시합니다.	
DOTel 87 원니라Ooth 원니라Ooth 원니다도 모드 김 류리 원리toOth 기리 필주 기타 권색 문헌: Blustooth	THOMAS-PC Bluetooth 약스크로 합유다
장치를 찾지 못할 경우 해결 방법	

1. Bluetooth ON – add new device – select HQ_UHF_READER to connect



2. Put 1234 for connecting code.



3. Click property.



4. Select hardware tab.



5. Check COM Port number.



6. start – program – BizNara – RFIDHOST – rfidhost.exe



7. MENU - LINK



8. Select COM4, Click LINK. (check No. 5 screen)



9. finish



- 1. Press inventory button to operate inventory. When operation starts, button will changed as STOP. To stop, Press STOP button.
- 2. The saved PC/EPC data will displayed on tag ID list. Count is accumulated count.
- 3. Click tag list for displaying list menu. User can make MASK or delete inventory list in this menu.
- 4. To finish program, press "EXIT" menu bar. Press OK icon, the program window will be hide to tray.
- 5. Menu bar on the right side uses for other functions as tag read/write.



- 1. Press access, to detect tag and read data from set up memory.
- 2. Before operate, choose single_tag on config screen.
- 3. The status lamp will be changed as red when error occurred.
- 4. To access ID tag, press left side button on the tag ID window

MASK function - manual to find only specified tag



1. Click MASK.

Acce	ss Tag	ID		
C	300005	9388082009122	10000	0002
-Sele	ct Masi 0 MASI	k 00	16	_
0	000			
				EXIT
E	хіт		ME	NU
2.	Click	EXIT after	sele	ct

MASK memory area.



3. When click INVENTORY button, Can see on the message. Click "Y" button.



4. DOTR-900 will read only specified tag.

Write function - manual to write EPC value on tag

Password on tx rx ACCESS Password 00000000 Password Password C Bead © Write C Lock © Kill Access Tag ID Password C 3000E200903315150041227028EB Access Location Pattern Pattern Detect PC/EPC 1 01 7 1 Status 3000E20090331515004122702 MASK EXIT	RFIDHOST on tx rx ACCESS 00000000 C Read Write Lock Kill Access Tag ID 3000E200903315150041227028EB Access Location Pattern Detect PC/EPC 01 7 Status 15200903315150041227028EE MASK EXIT	RFIDHOST Password 00 br rx ACCESS 00000000 C Read Write Lock Kill Access Tag ID 3000E200903315150041227028EB Access Location Pattern Access Location Pattern Detect PC/EPC 01 7 1 Status pE20090331515004122702999 PE20090331515004122709999 PE20090331515004122709999 PE20090331515004122709999	RFIDHOST On tx rx ACCESS Password 00000000 C Read Write C Lock C Access Tag ID 3000E200903315150041227099994 Access Location Pattern Detect PC/EPC < 01
1. After select write, click ACCESS button.	2. Write tag value	MASK	Status JE20090331515004122709999 MASK EXIT

3. EX) Input 9999 value, after delet 29EB final value. And click ACCESS button.

4. check changed EPC value.

Lock Screen



Kill screen

RFIDHOST)	
	ACCESS	Password 00000000		
C Read Access Tag	○ Write ○ Lo ID	ock 🖲 Kill		Tag kill password input
C Kill Field				
Detect Status Status			User password input	
	MASK	EXIT		
			1	

- 1. Operate and input kill password of tag.
- 2. User password is for prevent tag destruction by mistake.
- 3. Once kill tag, the tag will not saved. Please careful to kill.



- 1. Set parameter while tag query. This setting data effected inventory and access both.
- 2. If Query timeout is 0, there is no timeout. The measure is second.
- 3. User can reduce the maximum output as 9dB.

Link screen



Another function - Sending the text message



1. Select REPORT after click the inventoried tag.

NFIDHC	ost 🛛 🚑 🏹 📢 10:11 •	k
Recipient	01044852229	
Reader ID	0000 r	
ID:3000e200	Total 31/40 char(s) 0903315150041227028eb)
CANCEL		

2. Insert recipient's phone number the smartphone and click the send button.



5.1 Support and Information

1. A/S Center Information

1) Telephone

A/S consultation : 82-2-850-3629

2) Working hour

Mon~Fri : AM 09:00~PM 06:00 (lunch time PM 12:00~PM01:00)

Saturday, Sunday and public holidays is not available.

3) Service center address

#507, Kolon Science Valley II, 811 Guro-dong, Guro-gu, Seoul, Korea 152-878

2. Before reguesting the repair

1) Please note telephone number, address and issues.

This can be very helpful for customer services.

2) Please check the user manual again before A/S service require.

3. Warranty – Main unit : 1 year

4. Quality information

In the following cases, even within the warranty period can not be repaired at no charge.

- A. Case of failure to shock, flooding occurred by consumer mistake.
- B. Case of disassembly and modification by consumer
- C. Case of failure by fire, earthquake, flood damage and so on.
- D. Case of repairs by undesignated A/S center



5.2 Product specificaions

SECTION	Specifications
Supported Protocols	ISO 18000-6C, EPC Class1 Gen2
Frequency	860MHz ~ 960MHz
RF output power	1 W
Modulation	PR-ASK
Interfaces	Bluetooth 2.0 EDR / USB 1.1 compatible / UART 3.3V , 3-wire
Battery	2350mAh Li-Polymer rechargeable battery
Operating Temperature	-20°C to 50°C
Storage Temperature	-40°C to 70°C
Dimensions	148mm x 51mm x 30mm (H x W x D)
Weight	170g
Charge	20pin TTA