

User Manual



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I. Overview

The handheld adopts RFID wireless reading method and supports FDX-B, FDX-A, HDX, EMID (ISO11784/85) format electronic tags. The product adopts high brightness OLED display, which can be clearly displayed in indoor or outdoor bright light conditions. The product comes with a storage function that can store up to 20,000 pieces of tag information, users can transfer the tag data stored in the device to a computer or mobile phone for data management via USB cable or Bluetooth wireless connection, supporting PC-based host computer software that supports data export and modification of device configuration.

With stable performance and simple operation, the product is suitable for animal management, traceability management, railway inspection and other asset management fields.

II. Performance Parameters

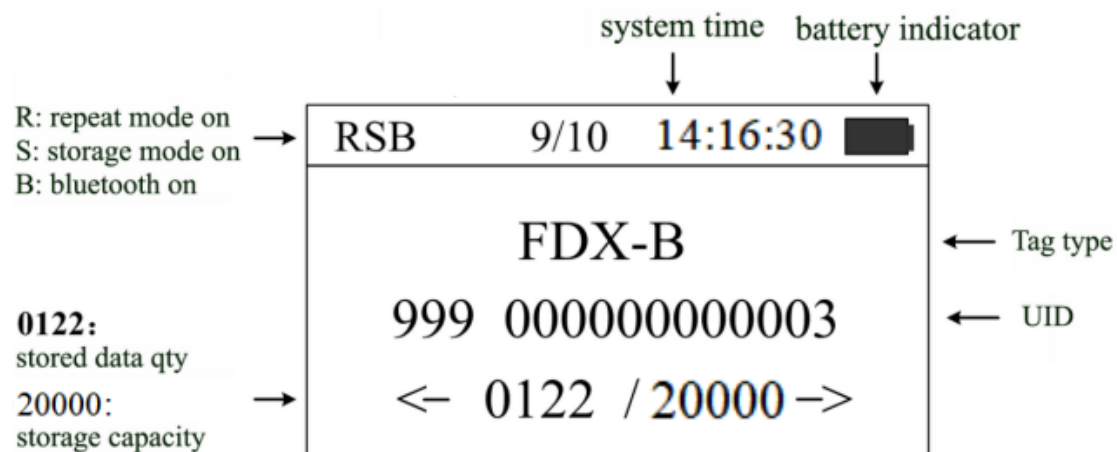
Operating frequency	134.2KHz、125KHz
label format	FDX-B、FDX-A 、HDX、EMID
Read/Write Distance	FDX-B: 2.12*12 glass tube labels >12cm (±3cm) 30mm ear tag >30cm (±5cm) FDX-A: 2*12m chip >10cm (±3cm) HDX: 30mm ear tag >35cm (±5cm) (Device read range is related to tag performance and operating environment)
Standard	ISO11784/85
Reading time	<100ms
Signal indication	1.54 inch 128*64 high brightness OLED, buzzer
Electricity supply	Two 18650 lithium batteries
Power consumption	Operating: 4.2W, Standby: 0.5W
Storage capacity	20000 messages (label code + time)

Battery life	More than 20,000 readings on a full charge
Communication	Bluetooth 4.0, USB 2.0
Weight	270g
Size of the device	Length:22.5cm Width:11cm Height:3.2cm
Dimensions of the outer package	Length:26.8cm Width:15.5cm Height:5.2cm
Languages	Chinese, English, Japanese, Russian, French, Spanish
Operating temperature	-10°C~50°C

III. Functions and Operation Instructions

1. Display interface

The reader comes with a 128*64 high brightness OLED display, which can simultaneously display the electronic label information, time, communication mode indication, storage mode indication.



2. Basic operations

(1) Turning on

In the power off state, press the "SCAN" key, the system will boot up and enter the main display interface.

(2) Scanning labels

Press "SCAN" button in the main display interface, the main screen will be black, after reading the label information, the buzzer will beep, and the current label

information will be displayed on the screen. 10S cannot scan the label information, the screen will display "No Data". No Data" will be displayed on the screen if the label information is not scanned within 10S.

(3) Data Viewing

Under the main interface, press '<' left button to scroll up for tag information and time; press '>' right button to scroll down for tag information and time.

(4) Automatic shutdown

In the power-on state, the system will automatically shut down and enter the hibernation state if the device has no device shutdown time and there is no key operation or data transmission within 120S.

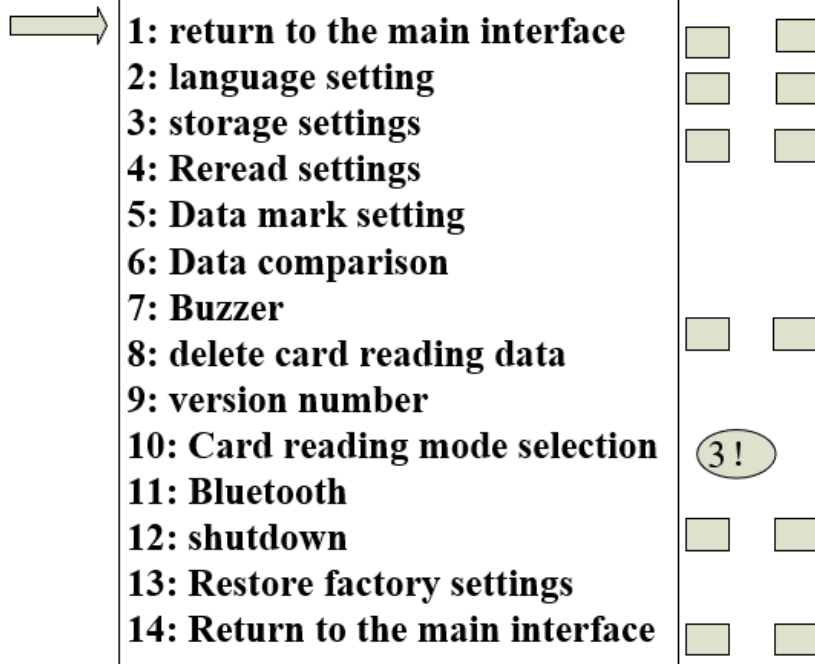
(5) Return to the main screen

After the device reads the label, the main screen will display the label data information, at this time, by long-pressing the "SCAN" key for 2 seconds and then release it to return to the main interface.

3. System settings

Press and hold the "SCAN" button under power-on state, the reader enters the setting mode, the display interface is as below, and press the left and right buttons ('<' and '>') to move the "arrow" cursor to select different functions for setting. "Arrow" cursor to select different functions for setting.

**Long press "SCAN" button to enter
the main interface**

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- The diagram shows a main menu interface. On the left, a green arrow points to a list of 14 items. To the right of this list is a vertical column of 14 green square buttons. The items and buttons are aligned horizontally. Item 10, 'Card reading mode selection', is circled in green, and its corresponding button contains the text '3!'.
- 1: return to the main interface**
 - 2: language setting**
 - 3: storage settings**
 - 4: Reread settings**
 - 5: Data mark setting**
 - 6: Data comparison**
 - 7: Buzzer**
 - 8: delete card reading data**
 - 9: version number**
 - 10: Card reading mode selection**
 - 11: Bluetooth**
 - 12: shutdown**
 - 13: Restore factory settings**
 - 14: Return to the main interface**

Language setting interface

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- The diagram shows a language setting interface. On the left, a green arrow points to a list of 7 items. To the right of this list is a vertical column of 7 green square buttons. The items and buttons are aligned horizontally.
- 1. Return**
 - 2: Chinese**
 - 3: English**
 - 4: Russian**
 - 5: Kazakh**
 - 6: Japanese**
 - 7: return**

Data mark setting interface	
→ 1: return	
2: Remark(1)	
3: Remark(2)	
4: Remark(3)	
5: Remark(4)	
6: Remark(5)	
7: Remark(6)	
8: Remark(7)	
9: Remark(8)	
10: Remark(9)	
11: return	

1: Back

Move the "arrow" cursor to the "Back" menu and click the "SCAN" key to return to the main power-on scanning screen.

2: Language Settings

The default language of the handheld is Chinese.If you want to change the language, you need to move the "arrow" cursor to the "Language Setting" menu, and then press the "SCAN" key to enter into the language setting menu to select the language through the "arrow" cursor. Press "SCAN" key to enter the language setting menu and select the language by the "arrow" cursor.

(Note: The languages that come with the device are Chinese, English, Russian, Japanese, French and Spanish.)

3: Memory Enable

Move the "arrow" cursor to the "Storage Setting" menu, and press "SCAN" key to select between "Y" and "N". Press "SCAN" to switch between "Y" and "N".

(Note: If the storage mode is set to "Y", the reader will automatically store the tag

type, ID number and operation time after reading the tag information; if the storage mode is set to "N", no information will be stored.)

4: Reread Allow

Move the "arrow" cursor to the "Re-read Setting" menu, press "SCAN" key to select between "Y" and "N". Press the "SCAN" key to switch between "Y" and "N".

(Note: If the re-reading mode is set to "Y", the handheld will save the same or different tag information read into the memory; if it is set to "N", the current data will not be stored and the "DUP" will be displayed if the tag information read is the same as the tag letter in the memory. Set to "N" mode, if the tag information read is the same as the tag information in memory, the current data will not be stored and "DUP" will be displayed.)

5: Data Marking

Move the "arrow" cursor to the "Data Marking" menu, click "SCAN" to enter the data marking menu for marking, the data read by the factory equipment is not marked by default.

(Note: This function is a data marking function, you can set 9 groups of different flags for marking the type of tags to be read.)

6: Data Comparison

Move the "arrow" cursor to "Data Comparison" menu, press "SCAN" key to move between "Y" and "N". To realise the comparison function, you need to download the comparison file to the device through the PC software first, after setting the "Y" mode, the device will enable the comparison function, if the device has downloaded the comparison data to the device, the label data read by the device will be the same as the label data imported into the device. If the device has downloaded the comparison data to the device, the label data read by the device and the label data in the comparison data imported into the device will be compared, and if there is the same label information, the "CMP" prompt will be displayed.

7: Prompt sound

Move the "arrow" cursor to the "Buzzer" menu, press "SCAN" key to select between "Y" and "N". Press "SCAN" to switch between "Y" and "N".

(Note: "Y" means the buzzer is turned on in audible mode and "N" means the buzzer is turned off in silent mode.)

8: Deleting Data

Move the "arrow" cursor to the "Delete Data" menu and press "SCAN" three times to delete all data in the memory.

(Note: After deleting the data, the data can not be recovered, so please operate with caution.)

9: Display Version

Move the "arrow" cursor to the "Version" menu, press "SCAN", you can query the factory version information of the device.

10: Card Reading Mode

Move the "arrow" cursor to the "Read Card Selection" menu, click the "SCAN" key to enter the card reading mode selection.

(Note: you can select the mode to be read by the cursor, this function supports single card reading and continuous card reading switch)

11: Bluetooth Function

Move the "arrow" cursor to the "Bluetooth" menu, press the "SCAN" key to select between "Y" and "N". Press "SCAN" to switch between "Y" and "N", set to "Y" mode, the Bluetooth function of the handheld is on, set to "N" mode, the Bluetooth function of the handheld is off.

You can switch between HID analogue keyboard and serial communication SPP modes:

In HID mode, the device name under scanning of mobile phones and other

terminal devices is "380-HID".

In SPP mode, the device name under the scanning of mobile phones and other terminal devices is "380-SPP".

(Note: Between switching modes, turn off the Bluetooth, then switch, then turn on the Bluetooth, otherwise there may be a problem of not searching for the device, and after the connection is successful, each time the handheld reads the information, it will send the current tag ID number to the relevant Bluetooth device via Bluetooth.)

12: Shutdown Settings

Move the "arrow" cursor to the "Shutdown" menu, press "SCAN" to turn off the power of the handheld, and there is a time delay shutdown selection function of 2, 3, 5, 10, 20 minutes to choose. There is also a time delay selection function of 2, 3, 5, 10, 20 minutes to choose.

13: Factory Settings

Move the "arrow" cursor to "Restore Factory Settings" menu, press "SCAN", the handheld will restore all factory settings.

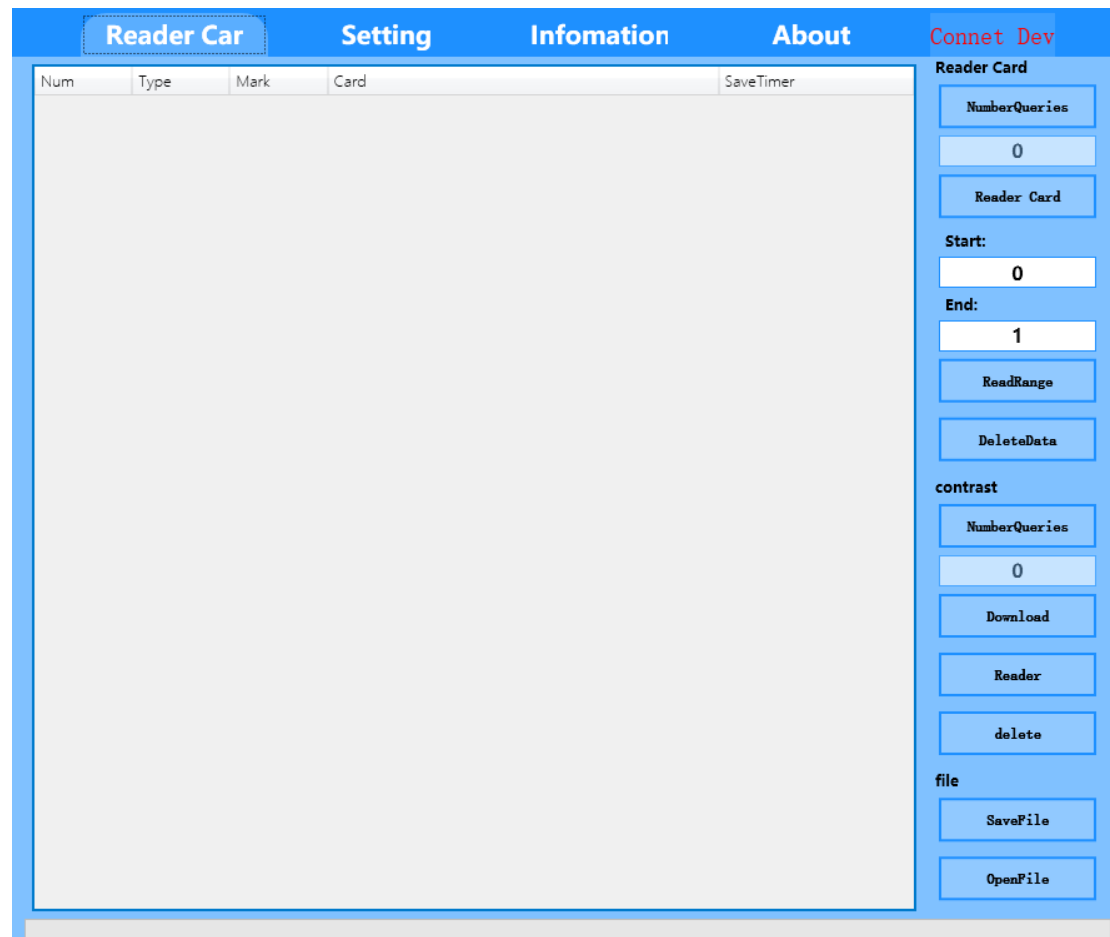
(Note: This function is convenient for customers to enable in the case of "fuzzy" settings, after enabling to restore the factory settings of the device, it will not delete the data stored in the device.)

14: Return

Move the "arrow" cursor to the "Return to Main Interface" menu, and click the "SCAN" key to return to the main interface of power-on scanning.

IV. PC software

The handheld comes with a micro usb interface, with micro usb data cable will be connected to the reader and the computer, through the database management software can be achieved by storing the amount of information query, data copy, data deletion, as well as the operation of the system time settings.



Conner Dev: After clicking, the device can switch between the connection and the host computer software or the disconnected state. The red font state is the disconnected state, and the green font state is the connected state.

(Reader Card) NumberQueries: After clicking, the number of labels stored on the current device is displayed in the display box below this button.

Reader Card: Display the label information stored by the device in the host computer software text box.

ReadRange: Enter the data range value to be found in the start and end boxes. After clicking this key, the label information in this range will be displayed in the host

computer software text box.

DeleteData: Clear all label information stored by the device (Note: it will not be recoverable after the information is cleared).

(Contrast) **NumberQueries :** After clicking, the amount of contrast data stored by the current device is displayed in the display box below the button.

Download: Download the data in the text box of the host computer software to the device as contrast data.

Reader : Display the Contrast data stored by the device in the host computer software text box.

Delete: Clear the contrast data stored by the device (note: Information will not be recovered after clearing).

SaveFile: Save the data in the host computer software text box to the Excel spreadsheet.

OpenFile: Display the data of the Excel file in the host computer software text box.

Progress bar: the progress bar will display the progress of the device to read the device data and download the comparison file to the device.

Language: You can modify the display text language of the host computer software.

Emulates keyboard: USB Emulates keyboard function.

Settings: click the upper computer software to select the status of the relevant functions to synchronize to the device.

Reader / reader settings: Read the switch or mode status of the current related functions of the device.

Factory reset: all related functions above this button can be restored to the factory status.

Set the time: Synchronize the device time with the computer time.

Bluetooth MAC: Bluetooth MAC is unique, which only supports reading and cannot be modified.

Bluetooth name: Support to modify the Bluetooth name of the device online (only support English characters, special characters support "-", "_", "." Other characters are not supported).

Reader Car	Setting	Infomation	About	Connet Dev
Manufacturers:		Setting	Reader	
Model:		Setting	Reader	
Firmware version:		Setting	Reader	
Date of manufacture:		Setting	Reader	

Reader: Read the "manufacturers, model, firmware version, Date of manufacture" information displayed in the current system information function of the device.

Setting: Modify the "manufacturers, model, firmware version, Date of manufacture" displayed in the equipment system information function as the data in the display box (only support English characters, special characters support "-", "_", ".", Other characters are not supported).

V. Matters needing attention

1. This product is an electronic product, and it is transported and kept according to the conventional electrical equipment.
2. Avoid falling or hitting readers from high places.
3. Do not place the reader in high-temperature, wet, or corrosive environments.
4. Non-professionals should not open the reader shell.
5. Please use the provided data line for the online operation.
6. Try not to remove the battery back cover too often.
7. Please remove the battery for a long time to avoid battery leakage and corrosion on the circuit board

VI. Packing list

Order number	Name
1	USB data wire
2	Two 18650 lithium batteries
3	A device

VII. Product warranty instructions

1. From the date of your purchase, free maintenance within one year due to our product quality problems.

2. Those who need to repair or replace the equipment caused by improper use, unauthorized modification of equipment, additional connection, operation error and other human factors shall bear the relevant maintenance and transportation costs by the user.

VIII. Release note

Imprint	
Version number	V1.0.0
Refresh time	2023.1.12