Instruction Manual

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I. Overview

The handheld device uses wireless reading mode and supports electronic labels in FDX-B, FDX-A, and HDX (ISO11784/85) formats.

The product uses a high brightness OLED display, which can clearly display under bright light conditions indoor or outdoor. The product's built-in storage can store up to 20,000 label information, and users can import the stored information to the computer through a USB cable or wireless connection for data management.

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

The performance parameters of the product are as shown in Table 1.

Table 1 Performance parameters of the handheld device

Operating frequency	134.2KHz, 125Khz
Label format	FDX-B, FDX-A, HDX、EMID(ISO11784/85)
Read/write distance	FDX-B:2.12*12 chip >5cm (±5cm) 30mm ear tag >25cm (±5cm) FDX-A:2*12m chip >5cm (±5cm) HDX:30mm ear tag >25cm (±5cm) EMID：2*12m chip >5cm (±5cm)
Standard	ISO11784/85
Reading time	Less than 100ms
Signal indication	128*64 high brightness OLED, buzzer
Power supply	Lithium batteries
Power consumption	0.4 W.
Storage capacity	20,000 messages (tag code + time)
Battery life	More than 20,000 reads on a full charge
Communication	Bluetooth 4.0
Weight	350g
Size of the device	Length :22.5cm Width :11cm Height :3.2cm
Dimensions of the outer package	Length :26.5cm Width :15.5cm Height :5.2cm
Languages	Chinese, English, Japanese, Russian, French, Spanish
Operating temperature	-10℃ to 50℃
Storage temperature	-30 C to 70 C

III. Functions and Operation Instructions

1 Display interface

The reader comes with a 128*64 bright OLED display, which can display electronic tag information, time, communication mode, storage mode at the same time. The display interface is as shown in Figure 1.

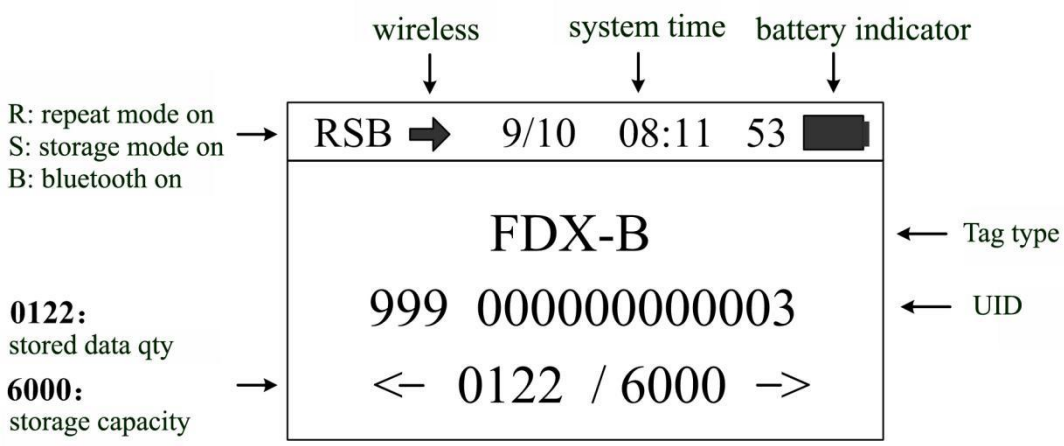


Figure 1 Interface of the display screen

2 Basic operations

- Turning on

Long press the "SCAN" key for 2 seconds in the power off state, and the system will be turned on and enter the main display interface.

- Scanning labels

Press the "Scan" button in the main display interface, and the main screen will display "scanning... "and start scanning the label. After reading the label information, the buzzer will make a prompt sound, showing the information of the current label on the screen. If no label information is scanned within 10 seconds, the buzzer will beep long and display "No label!" .

- Data Viewing

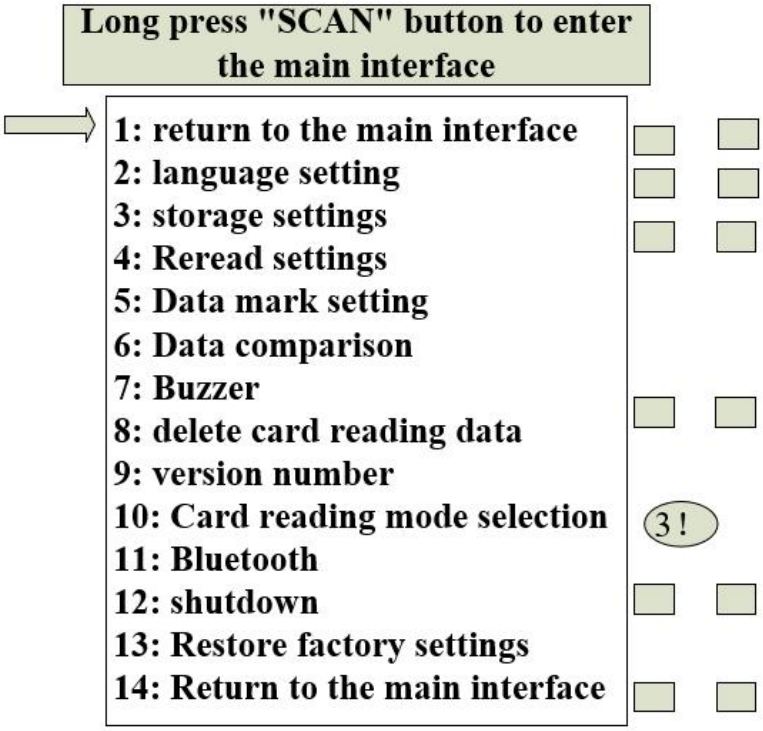
In the main interface, by pressing the '<' key, the user can scroll up to query the label information and time; and by pressing '>' key, the user can scroll down and query label information and time.

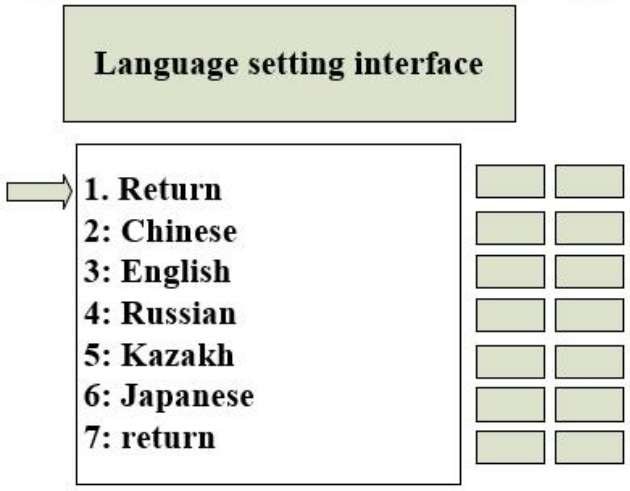
- Automatic shutdown

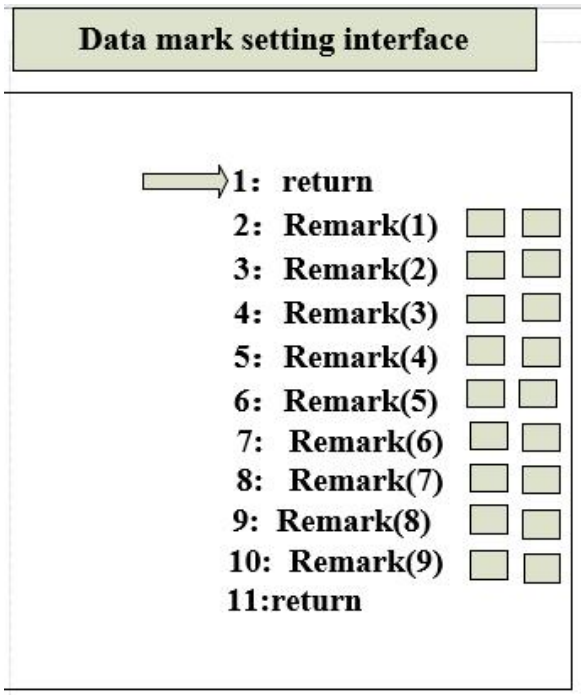
In the power-on state, if there is no key operation or data transmission within 120 seconds, the system will automatically shut down and enter the stand-by state.

3 System settings

When the user long presses the "SCAN" button, the reader will enter the setup mode, and the display is as shown in the following figure, and by pressing "arrow" cursor around, the user can select different functions.


Long press "SCAN" button to enter the main interface
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
3!
11: Bluetooth
12: shutdown
13: Restore factory settings
14: Return to the main interface


Language setting interface
1. Return
2: Chinese
3: English
4: Russian
5: Kazakh
6: Japanese
7: return



1: Returning

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

2: Language settings

The default language of the handheld device is Chinese.

To change the language, move the arrow cursor to the "Language Settings" menu, press the "SCAN" key to enter the language settings menu, and select through the arrow cursor.

(Note: the languages of the device include Chinese, English, Russian, Japanese, French and Spanish.)

3: Storage

Move the arrow cursor to the "Storage Settings" menu and press the "SCAN" key to switch between "Y" and "N".

(Note: When the storage mode is set to "Y", the reader will automatically store the label type, ID number and operation time after reading the label information. If the storage mode is set to "N", the information will not be stored.)

4: Allowing rereading

Move the arrow cursor to the "Reread Settings" menu and press the "SCAN" key to switch between "Y" and "N".

(Note: The rereading mode is set to "Y" mode, and the handset will save the same or different label information read to the memory; If it is set to "N" mode, the device will not store the current data and will display "DUP" when the read label information is the same as the label letter stored in memory.)

5: Data marking

Move the arrow cursor to the "Data marking" menu, and click the "SCAN" key to enter the data marking menu for marking. The data read by the device will not be marked by default.

(Note: this function is data marking function, and it can be set with 9 different set of icons, which can mark the scanned labels with 1 ~ 9 kinds of icons)

6: Data comparison

Move the arrow cursor to the "Data Comparison" menu and press the "SCAN" key to switch between "Y" and "N". After setting "Y" mode, the device will enable the comparison function, and the data read will be compared with the data imported into the handheld device to be compared. If the same label information is used, the buzzer will give three prompts.

7: Prompt sound

Move the arrow cursor to the Buzzer menu and toggle between Y and N by pressing the SCAN key.

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

8: Deleting data

Move the arrow cursor to the "Delete Data" menu and delete all the data in memory by double-pressing "SCAN" three times.

(Note: After the data is deleted, it cannot be restored. Please operate with caution.)

9: Showing the version

Move the arrow cursor to the "Version Number" menu, and by pressing the "SCAN" key, the user can query the factory version information of the device.

10: Card reading mode

Move the arrow cursor to the "Card Reading Selection" menu and click the "SCAN" key to enter the card reading mode selection interface.

(Note: The user can select the mode to read by the cursor. This feature supports switching between single read card and continuous read card modes)

11: Bluetooth function

Move the arrow cursor to the "Bluetooth" menu and press "SCAN" to switch between "Y" and "N". If it is set to "Y" mode, the Bluetooth function of the handheld device will be turned on, if it is set to "N" mode, the Bluetooth function of the handheld device will be turned off.

The user can switch between HID analog keyboard and serial communication SPP modes:

In HID mode, the device name scanned by terminal devices such as mobile phones is "380-HID".

In SPP mode, the device name scanned by terminal devices such as mobile phones is "380-SPP".

(Note: Before switching mode, turn Bluetooth off first, switch again, and then turn Bluetooth on again. Otherwise, you may not be able to search your device. After the connection is successful, the handheld device will send the current tag ID number to the relevant Bluetooth device via Bluetooth after each reading of the information.)

12: Powering off

Move the arrow cursor to the "Power Off" menu and power off the handheld device by pressing "SCAN." At the same time, the device has a delay shutdown function, can it can be shut down after 2, 3, 5, 10, 20 minutes.

13: Factory settings

Move the arrow cursor to the "Restore Factory Settings" menu, and by pressing the "SCAN" key, you can return the handheld device to factory settings.

(Note: This function can be enabled in the case of "fuzzy" settings, and it can restore the factory settings of the device.)

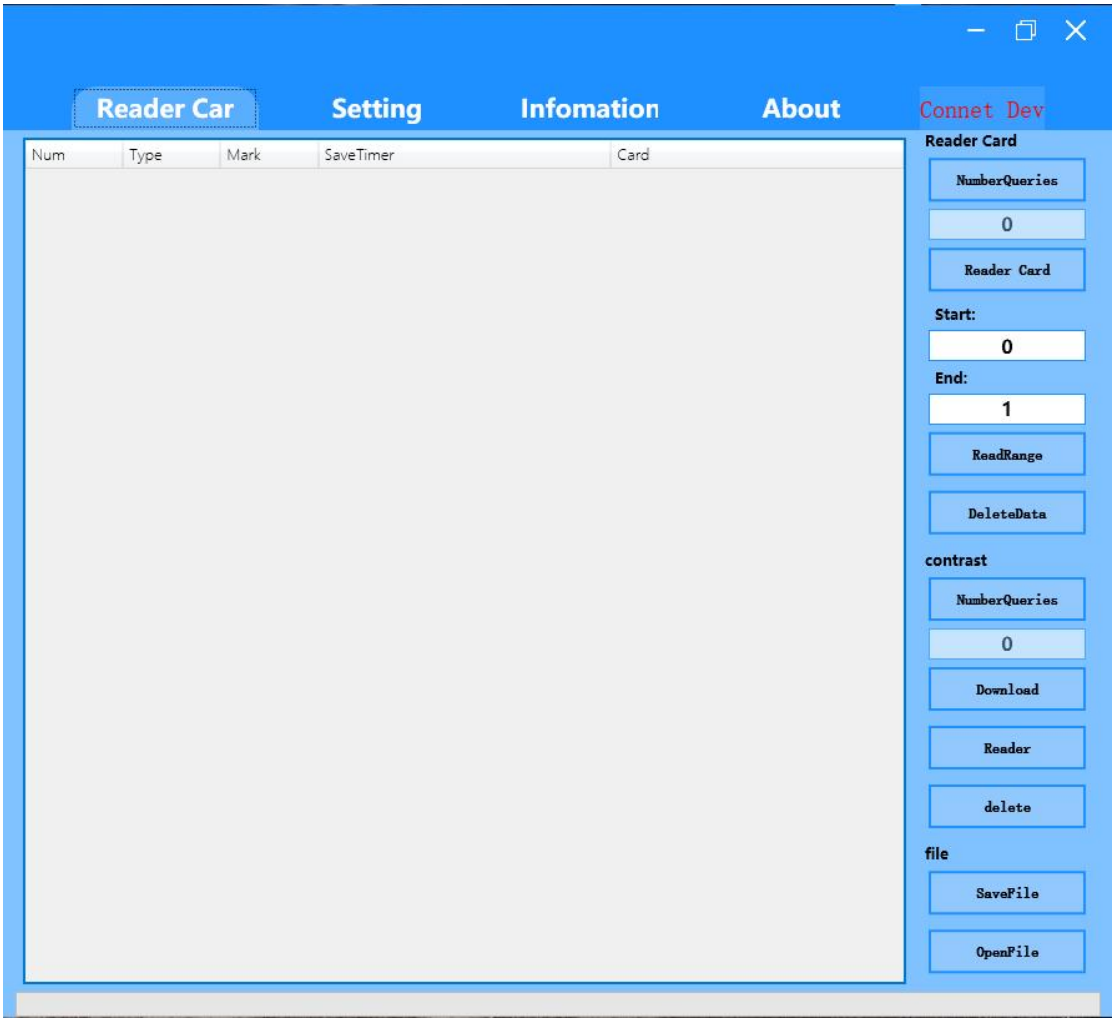
14: Returning

Move the arrow cursor to the "Back to Main Screen" menu, and you can return to the main screen of the power-on SCAN by clicking the "Scan" key.

IV. Data Transfer Management

The handheld device is equipped with a USB interface. After connecting the reader with the computer with a USB cable, the database management software can realize the operation of storage information query, data copy, data deletion and system time setting.

The database management software is shown in the figure below:



Interface of the database management software

Connect the reader to your computer with a USB cable, then open the database management software and click Connect Device. Once the connection is successful, the user can proceed to the next step. The key functions are as follows:

"Auto Connect" : Disconnect: Disconnect the software from the device.

Query Number: Shows the number of labels that have been stored in the current handheld device.

"Read Data" : Reads all the information stored in the reader.

"Read Range" : After the user sets the start and end positions and clicks the read range, the device will only display the data with the serial number of the corresponding start and receive bits.

"Delete Data" : clear all the label information stored in the handset (note: the information cannot be recovered after it is cleared).

"Set Time" : The time of the handheld device is synchronized with the current computer time.

Save File: Save the exported data to an Excel spreadsheet.

Open File: Displays the data from the Excel file into the tool.

"Open Comparison File" : Open the comparison file on your computer.

"Delete Comparison File" : Delete the comparison file inside the device.

"Download Comparison File" : Download comparison file to the device.

"Read Comparison File" : Read the comparison file on the device.

V. Precautions

1. This device is an electronic product and should be transported and stored in accordance with the standards of regular electrical equipment.
2. The reader should be avoided from falling from height or impact.
3. Do not place the reader in a hot, humid, or corrosive environment.
4. Non-professionals should not open the case of the reader.
5. Use the data cable provided for the connection operation.
6. Try not to remove the back cover of the battery too often.
7. When the device is not used for a long time, please remove the battery to avoid battery leakage and corrosion of the circuit board

VI. Packing List

Number	First Name
1	USB data cable
2	Two 18650 lithium batteries
3	A tri-protocol handheld device

VII. Product Warranty

Warranty Notes:

1. From the date of your purchase of this product, if our product itself has quality problems, our company can repair free of charge within one year.

2. If damages are not due to the quality problems of the company's products, but due to the user's improper use, unauthorized modification of equipment, additional connection, operation errors and other human factors, and the device needs to be repaired or replaced, the user shall bear the maintenance and transportation costs.

VIII. Version Notes

Version notes	
Version number	V1.0.0
Time of update	2023.3.17