

Handheld Label Reader Instruction manual



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I. Overview

The device adopts RFID wireless reading method and supports electronic tags in FDX-B (ISO11784/85) format. 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 read the stored information to a computer or cell 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, railroad inspection and other asset management fields.

II. Performance Parameters

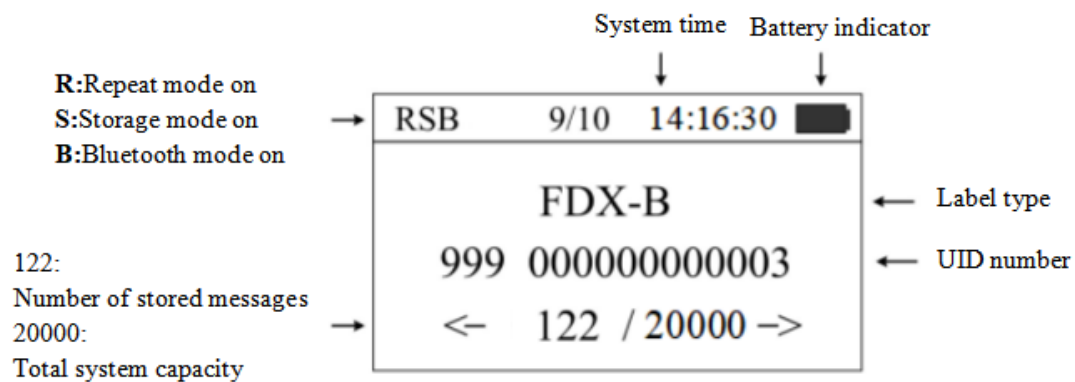
Operating Frequency	134.2Khz
Label format	FDX-B(ISO11784/85)
Reading distance	FDX-B: 2*12mm glass tube label >10cm 30mm animal ear tag >25cm (The reading distance of the equipment is related to the performance of the tags and the operating environment)
Standard	ISO11784/85
Reading time	<100ms
Signal indication	1.54" 128*64 high brightness OLED, buzzer
Power supply	Three 14500 lithium batteries
Power Consumption	Operating: 1.85W, Standby: 0.2W
Storage Capacity	20000 messages (tag code + time)
Battery Life	More than 20,000 readings on a full charge
Communication	USB2.0, Bluetooth 4.0
Weight	310g

Device Dimensions	Length: 28cm Width: 14.5cm Height: 5cm
Outer Dimensions	Length: 32cm Width: 18.5cm Height: 6.5cm
Languages	Chinese, English, Japanese, Russian
Operating Temperature	-10℃～50℃

III. Functional introduction and operating instructions

1 Display interface description

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) Power on

Press and hold the "SCAN" key for 2s under the power off state, the system will turn on and enter the main display interface.

(2) Scanning labels

In the main display interface, press the "SCAN" button, the main screen displays "<<<0>>>" and start scanning the label, after reading the label information, the buzzer will beep once and the current label information will be displayed on the screen. 10S scanning label information, the buzzer will beep three times and display "No Tag". If no tag information is scanned within 10S, the buzzer will sound three times and display "No Tag".

(3) Data view

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

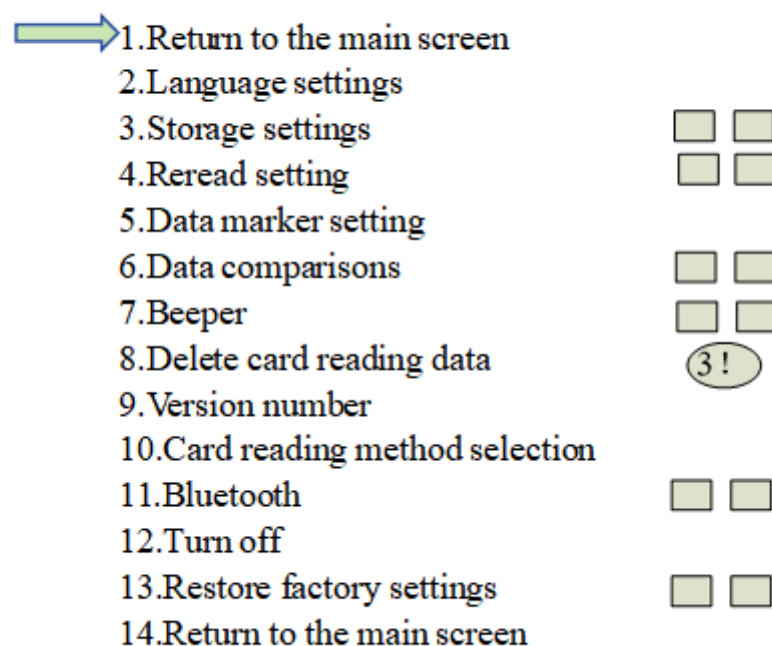
(5) Returns to the main interface

After the device reads the label, the main screen will display the label data information, at this time, long press the "SCAN" key for 2 seconds to return to the main interface.

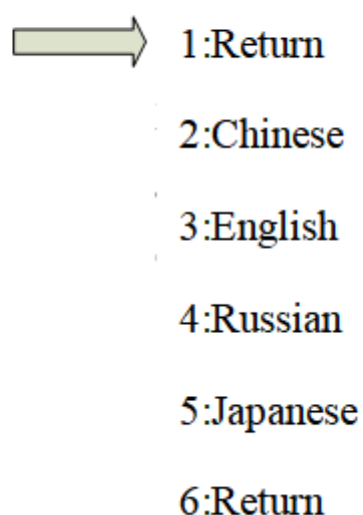
3 System Settings

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 the "SCAN" button to enter the main interface

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- A screenshot of a device's main interface menu. It features a list of 14 numbered options. A green arrow points to the first option. To the right of the list, there are several small square icons: two for options 3 and 4, two for 6 and 7, a circle containing '3!' for option 8, two for 11, and two for 13. Option 14 is at the bottom of the list.
1. Return to the main screen
 2. Language settings
 3. Storage settings
 4. Reread setting
 5. Data marker setting
 6. Data comparisons
 7. Beeper
 8. Delete card reading data
 9. Version number
 10. Card reading method selection
 11. Bluetooth
 12. Turn off
 13. Restore factory settings
 14. Return to the main screen

Language settings screen

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- A screenshot of the language settings screen. It shows a list of six numbered options. A green arrow points to the first option.
- 1: Return
 - 2: Chinese
 - 3: English
 - 4: Russian
 - 5: Japanese
 - 6: Return

Data marker setting screen		
→	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: Return to the main interface

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

2: Language settings

The factory default language is Chinese.

To change the language, move the "arrow" cursor to the "Language Setting" menu and press the "SCAN" key to enter the language setting menu. Press "SCAN" key to enter the language setting menu and select the language by the "arrow" cursor.

(Note: The device comes with Chinese, English, Russian and Japanese languages.)

3: Storage settings

Move the "arrow" cursor to the "Memory Settings" menu and press "SCAN" to switch 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: Repeat settings

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

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

5: Data labelling

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. The data read by the factory equipment is not marked by default.

(Note: This function is a data marking function that allows you to set 9 different groups of flags to mark the type of tag that will be read.)

6: Data comparison

Move the "arrow" cursor to "Data Compare" menu, press "SCAN" key to switch between "Y" and "N". "To realise the comparison function, you have 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 compared with the label data in the comparison data imported to the device, and the label data in the comparison data of the device will be compared with the label data in the comparison data imported to 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: Buzzer Setting

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

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

8: Delete card reading data

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

(Note: Data is not recoverable after deletion, so users are advised to exercise caution.)

9: Version number

Move the "arrow" cursor to the "Version" menu and press the "SCAN" key to search the factory version information and website of the device.

10: Card reading options

Move the "arrow" cursor to the "Read Mode Selection" menu and click the "SCAN" key to enter the read mode selection.

(Note: The mode to be read can be selected by the cursor, and this function supports switching between single and continuous card reading.)

11: Bluetooth switch setting

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

Switchable between HID analogue keyboard and serial communication SPP

modes:

In HID mode, the name of the device scanned by a mobile phone or other terminal device is "HID-A03".

In SPP mode, the name of the device scanned by a mobile phone or other terminal device is "SPP-A03".

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

12: Switch off

Move the "arrow" cursor to the "Power Off" menu and press "SCAN" to power off the unit.

13: Restore factory settings

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

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

14: Shutdown time

Move the "arrow" cursor to the "Shutdown Time" setting menu and press the "SCAN" key to select the shutdown standby time.

(Note: 2, 3, 5, 10, 20 minutes to select standby)

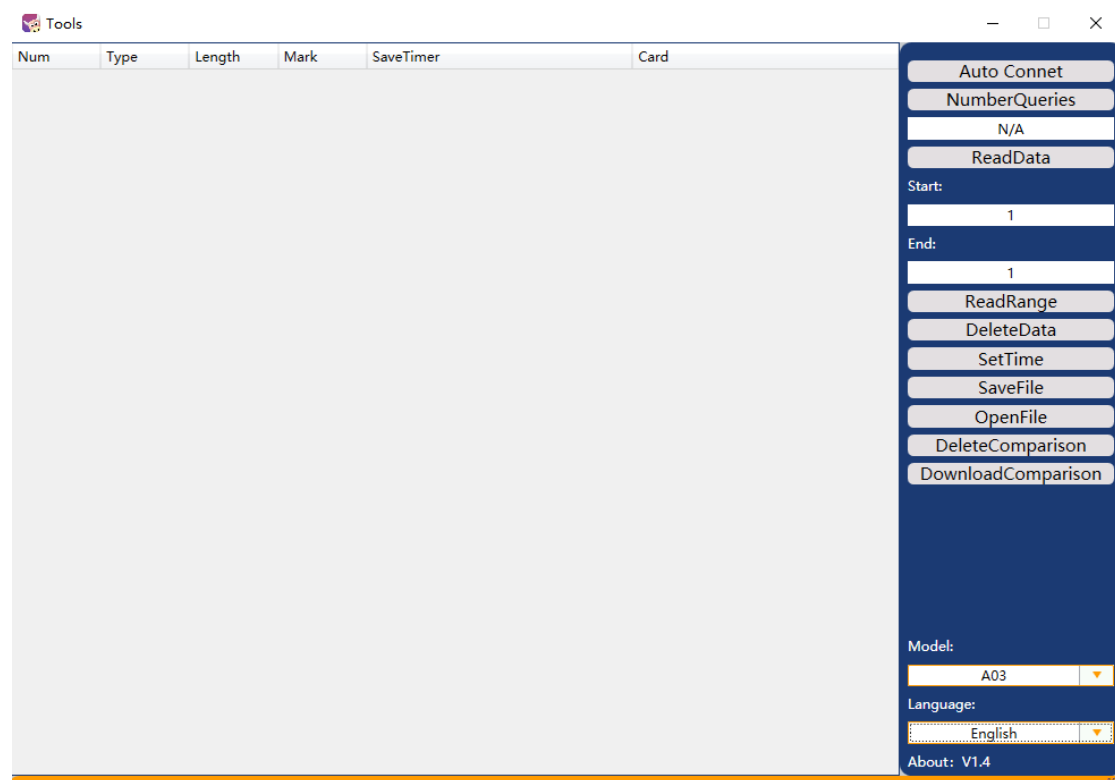
15: Return to the main screen

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

IV. Data transfer management

1 Database management software

The device comes with a USB interface. After connecting the device to the computer with a USB cable, the database management software can be used to realise the operations of querying the amount of stored information, data copying, data deletion and system time setting.



Database management software interface

Use the USB cable to connect the reader to the computer, and then open the database management software, click "connect to the device" after hearing a drop and pop-up connection success prompt, you can proceed to the next step (the first time you need to install the driver). Key function description is as follows:

"Auto Connect": Click it to switch the connection or disconnection status between the device and the PC software, the red font status is the disconnection status, the green font status is the connection status.

"Query Quantity": Displays the number of entries of label data that have been stored in the current device.

"Read data": Display the tag data stored by the device in the text box of the PC-based software.

"Read Range": Set the start position and end position, and when you click Read Range, only the data whose serial numbers correspond to the start and receive bits will be displayed.

"Delete Data": Clears all tag information stored by the device (note: information will not be recoverable after it is cleared).

"Set time": The device time is synchronised to be the same as the current computer time.

"Save file": Save the data in the text box of the PC software to the Excel table.

"Open File": Displays the data from the Excel file into the PC-side software text box.

"Delete Comparison File": Deletes the comparison file stored in the device memory.

"Download comparison file": Downloads the comparison file to the device.

2 Wireless data transmission function

The device can achieve wireless data transmission function through Bluetooth, Bluetooth HID: open the device Bluetooth and select the Bluetooth HID function, mobile phones, computers or other blue terminal equipment to open the Bluetooth to connect to the device Bluetooth (HID-A03), and open the mobile phones, computers or other blue terminal equipment of the Notepad, the device each reads a label data, the data will be displayed in the mouse cursor.

Bluetooth SPP: open the device Bluetooth and select Bluetooth SPP function, mobile phones, computers or other blue terminal equipment connected to the device Bluetooth (SPP-A03) and open the serial port assistant, after connecting the Bluetooth serial port, the device will display the data in the serial port assistant for every label data read, users can customise the development of APP software to achieve the data linkage through the Bluetooth SPP function.

V. Cautions

1. This product is an electronic product and is transported and stored in accordance with conventional electrical equipment.
2. Avoid dropping or impacting the reader from high places.
3. Do not place the reader in a hot, humid or corrosive environment.
4. Do not open the reader case by non-professionals.
5. Please use the data cable provided for online operation.
6. Do not remove the battery cover as often as possible.
7. Please remove the battery when not in use for a long time, to avoid battery leakage corrosion circuit boards.

VI. Packing list

NO.	Name
1	USB Data Cable
2	USB Charger
3	3 x 14500 lithium batteries
4	One device

VII. Product Warranty Statement

1. Since the date of your purchase of the product, due to the quality of our products itself within one year of free maintenance.
2. Non-product quality of the company's products due to the user's improper use, unauthorised modification of equipment, additional connections, operational errors and other human factors caused by equipment damage and the need for repair or replacement depending on the user to bear the cost of the relevant maintenance and transport.