# LF Handheld Reader


## Quick Details

This handheld device adopts RFID wireless recognition method and supports electronic tags in FDX-B, FDX-A, and HDF (ISO11784/85) formats. The product adopts a high brightness OLED display screen, which can display clearly even under strong indoor or outdoor light conditions. The built-in storage function of the product can store up to 20000 tag information. Users can transfer the tag data stored in the device to a computer or mobile phone for data management through USB data cable or Bluetooth wireless connection. It is matched with PC upper computer software and supports data export and device configuration modification.

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

## Performance Parameters

| | |
|---|---|
| Frequency | 134.2Khz |
| Support tag type | FDX-A / FDX-B / HDX |
| Read and write distance | ➢ FDX-B：<br>2.12 * 12 chips>12cm (± 3cm)<br>30mm ear tag>30cm (± 5cm)<br>➢ FDX-A：<br>2 * 12m chip>10cm (± 3cm)<br>➢ HDX：<br>30mm ear tag>35cm (± 5cm)<br>(The device reading distance is related to tag performance and operating environment) |
| Protocol | ISO11784/85 |
| Read time | ＜100ms |
| Signal indication | 1.54-inch 128 * 64 high brightness OLED, buzzer |
| Power supply | Two 18650 lithium batteries |
| Power consumption | Work: 4.2W, standby: 0.5W |
| Storage capacity | 20000 pieces of information (tag code+time) |
| Battery endurance | Read more than 20000 times when fully charged |
| Communication | Bluetooth 4.0 USB2.0 |
| Weight | 270g |



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| | |
|---|---|
| Device dimensions | L: 22.5cm W: 11cem H: 3.2cm |
| Outer packaging dimensions | L: 26.8cm W: 15.5cm H: 5.2cm |
| Support language | Chinese, English, Japanese, Russian, French, Spanish |
| Operating Temperature | -10°C~50°C |
| Packing List | USB cable, Two 18650 lithium batteries, one handheld reader. |

## Function introduction and operation instructions

### 1. Display interface description

The reader comes with a 128 * 64 high brightness OLED display, which can simultaneously display electronic tag information and time

Communication mode indication, storage mode indication. The display interface is shown in Figure 1.

### 2. Basic Operations

◆ Power on

In the shutdown state, press the "SCAN" button to turn on the system and enter the main display interface.

◆ Scan labels

Press the "SCAN" button on the main display interface, and the main screen will go black. After reading the label information, the screen will beep

The buzzer beeps and displays the current tag information on the screen. Unable to scan label information within 10 seconds, screen

It will display 'No Data'.

◆ Data viewing

In the main interface, press the '<' left button to scroll up and query tag information and time; Right click to go down Search for tag information and time.

◆ Automatic shutdown

In the power on state, if there is no device shutdown time, there will be no button operation or data within 120 seconds Transmission, the system will automatically shut down and enter sleep mode.

◆ Return to the main interface

After the device recognizes the label, the main screen will display the label data information. At this time, press and hold "SCAN"

Release the key after 2 seconds to return to the main interface

### 3. System Settings

Long press the "SCAN" button while the device is turned on, and the reader will enter the settings mode. The display interface is shown in the following figure,

And press the left and right buttons ('<' and '>' keys) to move the 'arrow' cursor to select different functions.



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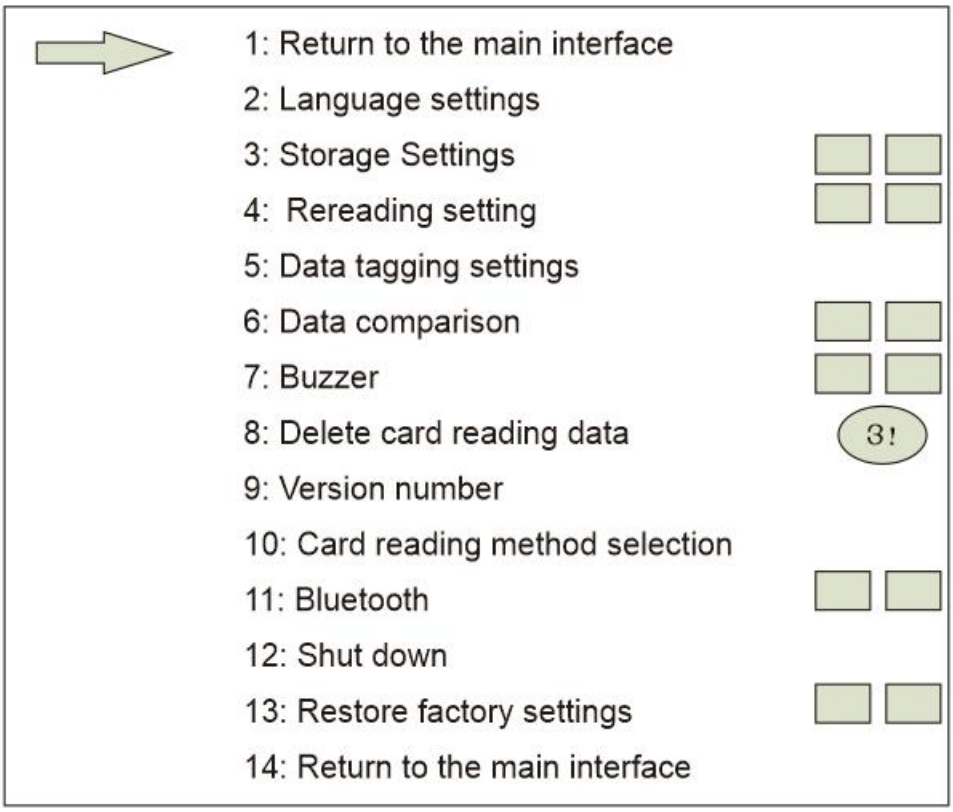
**Long press the "SCAN" button to enter the main interface.**




**Language Settings Interface**

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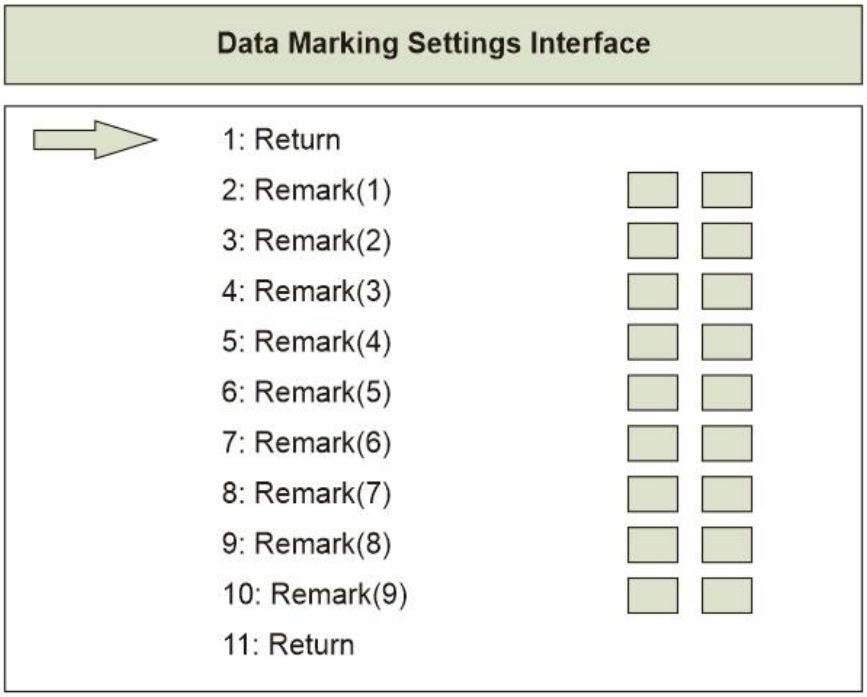


**(1) Return**

Move the "arrow" cursor to the "back" menu, click the "SCAN" key, and return to the power on mode Scan the main interface.

**(2) Language settings**

The default language for the handheld device at the factory is Chinese.

To change the language, move the "arrow" cursor to the "Language Settings" menu and press The "SCAN" key enters the language settings menu and is selected using the "arrow" cursor.

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

**(3) Storage enablement**

Move the "Arrow" cursor to the "Storage Settings" menu and press the "SCAN" key to navigate between "Y" and Switch between 'N'.

(Note: When the storage mode is set to "Y", the reader automatically stores the tag type after reading the tag information.)

If the storage mode is set to "N", the ID number and operation time will not be stored. )

**(4) Rereading allowed**

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

(Note: When the rereading mode is set to "Y" mode, the handheld device will read the same or different label messages.)

Save the information to memory; If set to "N" mode, the tag information read will be the same as the one stored in memory

When labeling, the current data is not stored and a "DUP" prompt is displayed. ）

**(5) Data tagging**

Move the "Arrow" cursor to the "Data Marking" menu and click the "SCAN" key to enter the data According to the marking menu, the data read by the factory equipment is not marked by default.

(Note: This function is a data tagging feature that allows for the setting of 9 different flags to mark the upcoming reading.)



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**(6) Data comparison**

Move the "Arrow" cursor to the "Data Comparison" menu and press the "SCAN" key to navigate between "Y" and to switch between 'N', before implementing the comparison function, you need to download the comparison file to the device through PC software, after setting the "Y" mode, the device enables the comparison function. If the device has downloaded comparison data to the device, the device compare the read label data with the label data in the comparison data of the imported device, and there are identical labels the message will display a "CMP" prompt.

**(7) Prompt sound**

Move the "arrow" cursor to the "buzzer" menu and press the "SCAN" key to navigate between "Y" and Switch between 'N'.

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

**(8) Delete data**

Move the "Arrow" cursor to the "Delete Data" menu and press "SCAN" three times to delete, except for all data in memory.

(Note: After deleting data, the data cannot be recovered. Users are advised to operate with caution.)

**(9) Display version**

Move the "arrow" cursor to the "version number" menu and press the "SCAN" key to retrieve the information (Factory version information of the device).

**(10) Card reading method**

Move the "arrow" cursor to the "card reading selection" menu, click the "SCAN" key, and enter Select the card reading mode.

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

Change)

**(11) Bluetooth function**

Move the "arrow" cursor to the "Bluetooth" menu and press the "SCAN" key to navigate between "Y" and "N", Switch between modes, set to "Y" mode, enable Bluetooth function on the handheld device, set to "N" mode, handheld device, the Bluetooth function is turned off.

Can switch between HID analog keyboard and SPP serial communication modes:

In HID mode, the device name scanned by terminal devices such as mobile phones is "A07-HID".

In SPP mode, the device name scanned by terminal devices such as mobile phones is "A07-SPP".

(Note: To switch modes, first turn off Bluetooth, then switch, and then turn on Bluetooth again. Otherwise, you can...)

(There may be a problem of not being able to search for the device. After successful connection, the information read by the handheld device each time will be transmitted through Bluetooth to send the current tag ID number to the relevant Bluetooth device)

**(12) Shutdown Settings**

Move the "arrow" cursor to the "shutdown" menu and press "SCAN" to turn off the power of the handheld device, At the same time, there are time delay shutdown selection functions for 2, 3, 5, 10, and 20 minutes.

**(13) Factory settings**

Move the "Arrow" cursor to the "Factory Reset" menu, press the "SCAN" key, and the reader to restore all factory settings.

**(14) Return**

Move the "Arrow" cursor to the "Return to Main Interface" menu, click the "SCAN" key, and then return to the main interface of the power on scan.



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**Data transmission management**

The reader comes with a USB interface. After connecting the reader to the computer with a USB cable, it can be managed through a database

The software can perform operations such as querying storage information, copying data, deleting data, and setting system time.


**Database management software interface**

Connect device: Click to switch between device and PC software connection or disconnection status, highlighted in red that the body status is disconnected, and the green font status is connected.

(Card Reading) Query Quantity: After clicking, the current device storage will be displayed in the display box below this button number of tags.

Card reading: Display the tag information stored by the device in the text box of the upper computer software.

Reading range: Enter the data range value to be searched in the start and end boxes, and clicking this button will display.

The label information within this range is displayed in the text box of the upper computer software.

Delete data: Clear all tag information stored on the device (note: information cleared will not be recoverable).

(Comparison) Query quantity: After clicking, the current device's stored pairs will be displayed in the display box below the button compared to the quantity of data.

Download: Download the data in the upper computer software text box as comparison data to the device.

Read: Display the comparison data stored by the device in the text box of the upper computer software.



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Delete: Clear the comparison data stored on the device (note: information cleared will not be recoverable).
Save file: Save the data in the text box of the upper computer software to an Excel spreadsheet.
Open file: Display the data of the Excel file in the text box of the upper computer software.
Progress bar: The upper computer software will display a progress bar when reading device data or downloading comparison files to the device, showing operation progress.


Language: The display text language of the upper computer software can be modified.
Simulated keyboard: USB simulated keyboard function.
Settings: After selecting the relevant function status in the upper computer software, click this button to synchronize to the device.
Read/Read Settings: Read the switch or mode status of the device's current related functions.
Factory reset: All related functions above this button can be restored to factory settings.
Set time: Synchronize the device's time with the computer's time.
Bluetooth MAC: Bluetooth MAC is unique and only supports reading, cannot be modified.
Bluetooth Name: Supports online modification of the device's Bluetooth name (only supports English characters, special characters are supported)
Characters such as' - ',' _ ','. 'are not supported.


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Read: It can read the "manufacturer, model, firmware version, output" displayed in the current system information function of the device
Factory date "information.
Settings: Modify the "manufacturer, model, firmware version, and manufacturing date" displayed in the device system information function
To display the data within the box (only supports English characters, special characters support "-", "_", "." and other characters) not supported).

**Precautions**

1. This product is an electronic product and should be transported and stored according to conventional electrical equipment.
2. Avoid the reader falling or impacting from a height.
3. Do not place the reader in a high-temperature, humid, or corrosive environment.
4. Non professionals should not open the reader casing.
5. Please use the provided data cable for online operation.
6. Try not to frequently disassemble the battery back cover.
7. Please remove the battery when not in use for a long time to avoid battery leakage and corrosion of the circuit board.

**Product Warranty Statement**

1. From the date of your purchase of the product, free repairs will be provided within one year due to quality issues with our products.
2. The quality of non company products is due to improper use, unauthorized modification of equipment, additional connections, or operation by users
Equipment damage caused by human factors such as errors that require repair or replacement shall be borne by the user for related maintenance and operation
Cost of input.


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