LF Stick Reader

Instruction manual



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1. Overview

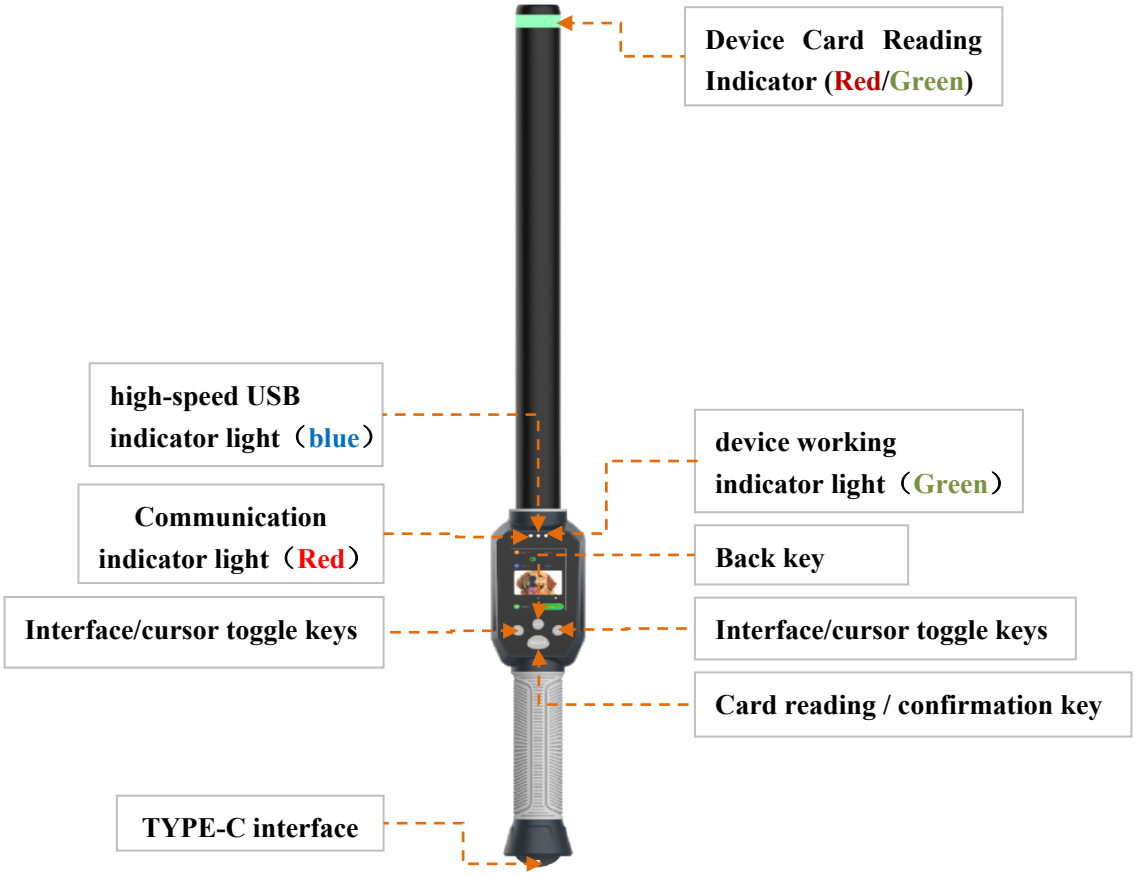
The stick reader adopts wireless reading mode, supports FDX-B, EMID, HDX (ISO11784/85) three different formats of low-frequency labels, the product uses high-brightness LCD (480x320) display, it can also be clearly displayed in indoor or outdoor strong light conditions, the storage function of the product can store up to 100,000 label information, users can use TYPE-C data cable, Bluetooth, 2.4G three data transmission modes will store information to computers or mobile phones and other terminals for data management, equipped with host computer software to support online modification of equipment functions and can efficiently process equipment storage data, equipment unique data comparison, data labeling, data inventory function is to greatly improve the user's work efficiency, and there are a variety of human-computer interaction operations can improve the user experience effect.

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

2. Performance parameter

Operating frequency	134.2KHz、125KHz
Label format	FDX-B、HDX、EMID
Sensing distance	FDX-B： 2.12*12mm glass tube label: 10cm(±3cm) Diameter 30mm electronic ear label: 30cm (±5cm) HDX： Diameter 30mm electronic ear label: 35cm (±5cm) Note: The annotation parameters are the test results of the Allflex label, and there may be performance differences or differences in the use environment of other labels
Standards	ISO11784/85
Read time	Around 150ms (determined by tag performance distance)

Interactive	480*320 high brightness 2.4-inch LCD, indicator light, buzzer, vibration motor
Electricity	7.4V 2000mAH lithium battery
Consumption	Card reading: 3.7W, standby: 0.6W
Storage capacity	store 100,000 pieces of data and 6,000 pieces of data in the data comparison function
Battery life	It can read 10,000 pieces of data continuously on a full charge
Communication interfaces	Type-C, Bluetooth 4.0, 2.4G
Exterior Specifications	Length: 69cm Width: 6cm Height: 5cm
weight	500g
Supported Languages	Chinese, English, Russian, French, German, Japanese, Mongolian, Dutch, Danish, Chinese traditional, Spanish, Portuguese, Kazakh, Italian, New Zealand, Korean
Waterproof rating	IP65
Operating temperature	-10℃～50℃



Introduction to the appearance of the equipment

3. Introduction to the appearance and operation of the equipment

3.1 SCAN key

When the device is powered off, the user can turn the device on by clicking the SCAN key.

3.2 Red communication indicator

When the device interacts with the host computer software, the red communication indicator will flash alternately, and the red communication indicator will always be on when the device communicates with the 2.4G receiver.

3.3 Blue high-speed USB indicator

When the TYPE-C data cable is inserted into the TYPE-C interface of the device, the icon will be displayed on the edge of the screen, and the TYPE-C data cable will be recognized as a high-speed USB data cable, and the blue high-speed USB

indicator will be on until the data cable is disconnected from the device. If the type-c cable plugged in is not a high-speed usb cable or is not in poor contact with the type-c interface, the blue high-speed usb indicator does not light up.

3.4 Device working indicator

When the device is powered on and working normally, the green device normal operation indicator will flash every two seconds.

3.5 Device card reading indicator

When the device is in the label reading stage, the device card reading indicator turns red; When the device reads the label, the device card reading indicator will turn green, and the device card reading indicator is turned off except for these two phases.

4. Introduction to equipment function

4.1 SCAN



Reading label Function screen

Reading label status screen

Label information

Under the reading label function screen, click SCAN key to enter the reading label status screen. When reading the label, the label information will be displayed on the screen. By clicking the device "<" and ">" keys, the stored label information will be displayed on the screen. Click Back key to return to the function selection interface.

If the device does not read the label for 16 consecutive seconds in the label

reading state, "No Data" will be displayed on the screen, and if the number of label data read exceeds 100,000, "Data Full" will be displayed on the screen.

In the interface of the label reading function, press and hold the SCAN key for three seconds and then release it, and the device can be directly shut down.

4.2 Language



Language selection function screen



Device language selection screen

Under the device language selection function screen, click the SCAN key to enter the device language selection screen, and adjust the position of the blue selection box by clicking the "<" and ">" keys of the device to select 16 different device languages. Click the SCAN key again to switch the language of the device to the corresponding language in the blue box. After language modification, the device will automatically restart and load the new language library, and click the Back key to return to the function selection interface.

4.3 Bluetooth



Bluetooth function screen



Bluetooth mode selection screen

Under the Bluetooth function screen of the device, click SCAN key to enter the Bluetooth mode selection screen, adjust the position of the blue selection box by clicking the "<" and ">" keys, and turn on or off Bluetooth and select the Bluetooth function as the analog keyboard function or serial Bluetooth function. Click SCAN key again to switch the Bluetooth mode of the device to the corresponding mode in the blue box, and click the Back key to return to the function selection interface.

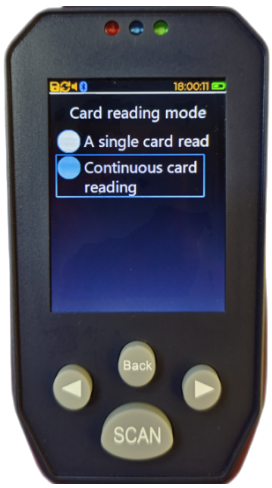
When Bluetooth is turned on, the icon will be displayed on the upper edge of the screen. The Bluetooth icon will always flash when the Bluetooth is not connected. After the device is connected, the Bluetooth icon will be always lit.

- **Emulates a keyboard:** After selecting this mode, the Bluetooth name of the device is "Bluetooth name in the system information interface-HID". After the smart device such as computer and mobile phone is connected to the device Bluetooth, the label information read by the device will be displayed at the cursor of the smart device. **This mode controls the keyboard of the smart device, so disconnect Bluetooth without the analog keyboard function.**
- **Serial Bluetooth:** After selecting this mode, the Bluetooth name of the device is "Bluetooth Name in the System Information Interface-SPP". In this mode, the device can only interact with the Bluetooth debugging APP.

4.4 Card reading mode



Card reading mode function screen



Card mode selection screen

Under the card reading mode function screen of the device, click the SCAN key to enter the card reading mode selection screen. You can adjust the position of the blue selection box by clicking the "<" and ">" keys of the device to select the card reading mode of the device. Click the SCAN key again to switch the card reading mode of the device to the corresponding mode in the blue selection box, etc., click the Back key to return to the function selection interface.

In the continuous card reading mode, in order to respond to the demand of faster reading speed, the label information will not be displayed after reading the label, and the reading function is turn off the device switch function for "data inventory" function, that is, fast reading non-repeated labels, which greatly improves the work efficiency of users.

4.5 Switch



Switch function screen



Related function switch selection screen

Under the device switch function screen, click the SCAN key to enter the device related function switch selection screen. Click the device "<" and ">" keys to adjust the blue selection box to change the on or off state of the device related function. Click the SCAN key again to change the switch status of the corresponding function in the blue selection box. Click the Back key to return to the function selection interface.



Reread the label words



Compare the same label words

- **Save:** After the saving function is turned on, the icon will be displayed along the screen. When the device reads the label, the label information will be stored in the device memory, while the label information read by the device will

not be stored in the device memory.

- **Reread:** after the replay function is turned on, the icon  will be displayed along the screen,the device will read the same or different label information saved to the device memory, whereas the device to read the label information and the same label in the device memory, the word "DUP" will be displayed on the screen, and the data will not be stored in the device memory。
- **Contrast:** After the contrast function is turned on, the icon  will be displayed along the screen. When the label information read by the device is consistent with the contrast data downloaded to the device, the word "CMP" will be displayed on the screen, and the data will not be stored in the memory of the device. On the contrary, there is no limit to the normal reading of the label information of the device. This device supports up to 6 thousand comparative data.
- **2.4G:** After the 2.4G receiving head is inserted into the computer side and the 2.4G function of the device is enabled, the label ID number read by the device will display directly on the computer cursor, and the red communication indicator will always be on.

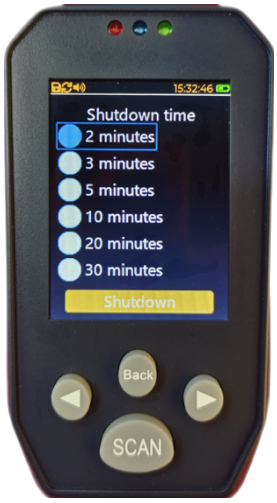
2.4G, Bluetooth Emulates keyboard function, and USB Emulates keyboard function should not be used on the same smart device at the same time, otherwise the label ID number displayed on the smart device will be confused.

- **Sound:** When the sound function is turned off, the icon  will be displayed along the screen. When the sound function is turned on, the icon  will be displayed. In this state, every time the device reads the label and the device is turned down, the buzzer will ring.
- **Shake:** After the shake function is turned on, the device will vibrate every time the label and the device is turned off.

4.6 Shutdown time



Shutdown time function screen



Shutdown time selection screen

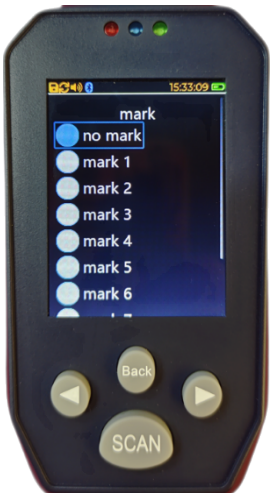
Under the device shutdown time function screen, click the SCAN key to enter the device shutdown time selection screen, and adjust the position of the blue selection box by clicking the device "<" and ">" keys to change the device timing shutdown time. Click the SCAN key again to change the timing shutdown time of the device to the corresponding time in the blue check box. Click the Back key to return to the function selection interface.

The shutdown time of the device is refreshed with each operation or communication with the host computer software.

4.7 Mark



Mark function screen



Mark the grouping and selection screen

Under the device mark function screen, click SCAN key to enter the Mark the

grouping and selection screen. Adjust the position of the blue selection box to select the label grouping of the data. Click SCAN key again to select the data group as the corresponding mark in the blue selection box, and click Back key to return to the function selection interface.

This device sets 9 different tags to group the read label information. After the mark function is turned on, the icon will display along the device screen. The specific data label grouping can be viewed through the label column in the data exported by the host computer software。

4.8 List



List function screen



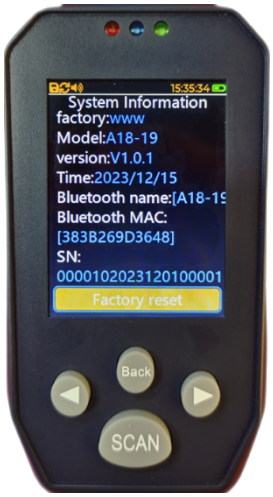
storage label information screen

Under the device list function screen, click SCAN to enter the storage label information screen. Click the device "<" and ">" to view the label ID and time of the device. Click Back to return to the function selection interface。

4.9 System information



System information function screen



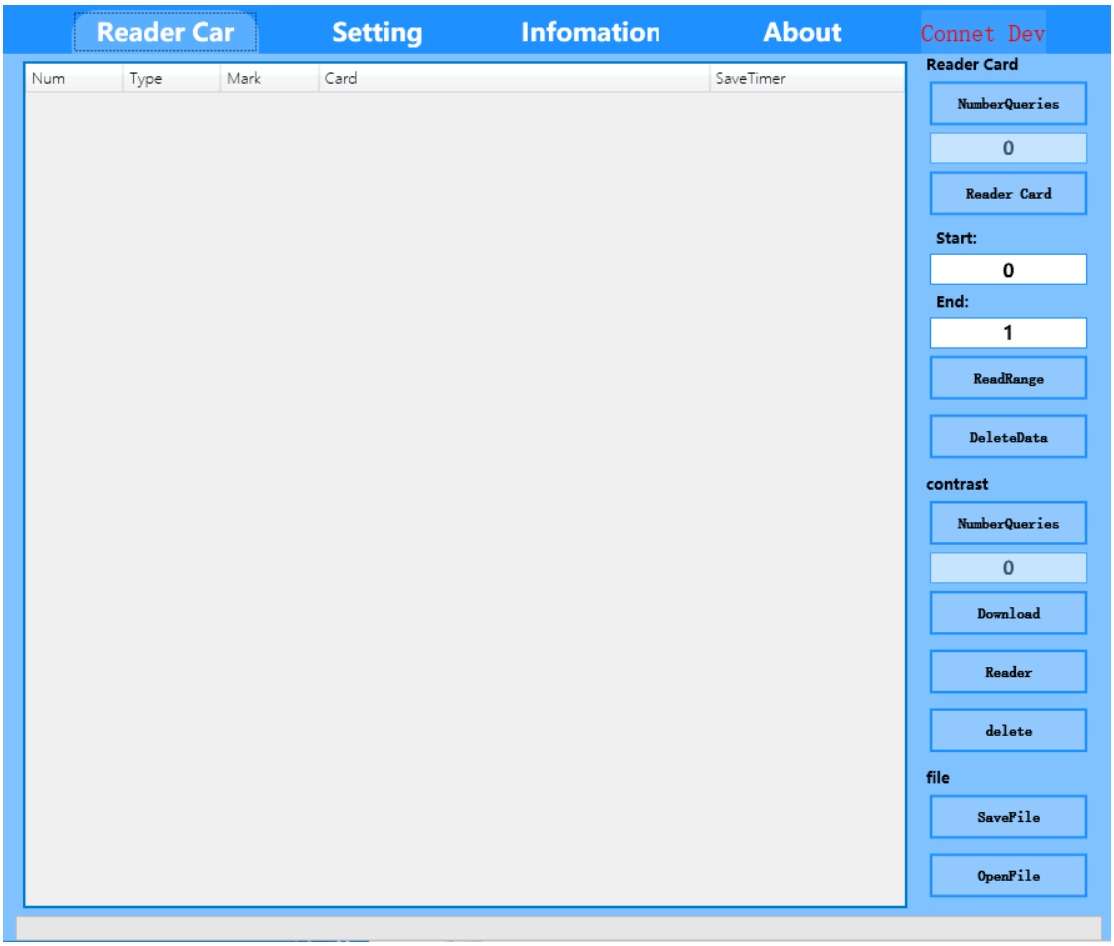
System information details screen

Under the device system information function screen, click the SCAN key to enter the system information details screen, click the SCAN key again to restore the device factory Settings, click the Back key to return to the function selection interface.

The "factory, model, version, time, Bluetooth name" displayed on this screen can be modified online through the host computer software (only support English characters, special characters support "-", "_", "." Other characters are not supported). The factory reset will restore the status of the switch, Bluetooth mode, card reading mode, shutdown time and marking function in the device switch function to the factory Settings, and the relevant information in the system information and the information in the device memory will not be deleted, that is, the information in the list will always exist.

5. Operating instructions of the host computer software

Connect the device to the computer with the TYPE-C data line, and the icon will display along the screen of the device, and the blue high-speed USB indicator light will always be on (if these two phenomena occur, the data line contacts the interface with the device badly, and the TYPE-C data line can be solved). The specific key functions are as follows:



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.

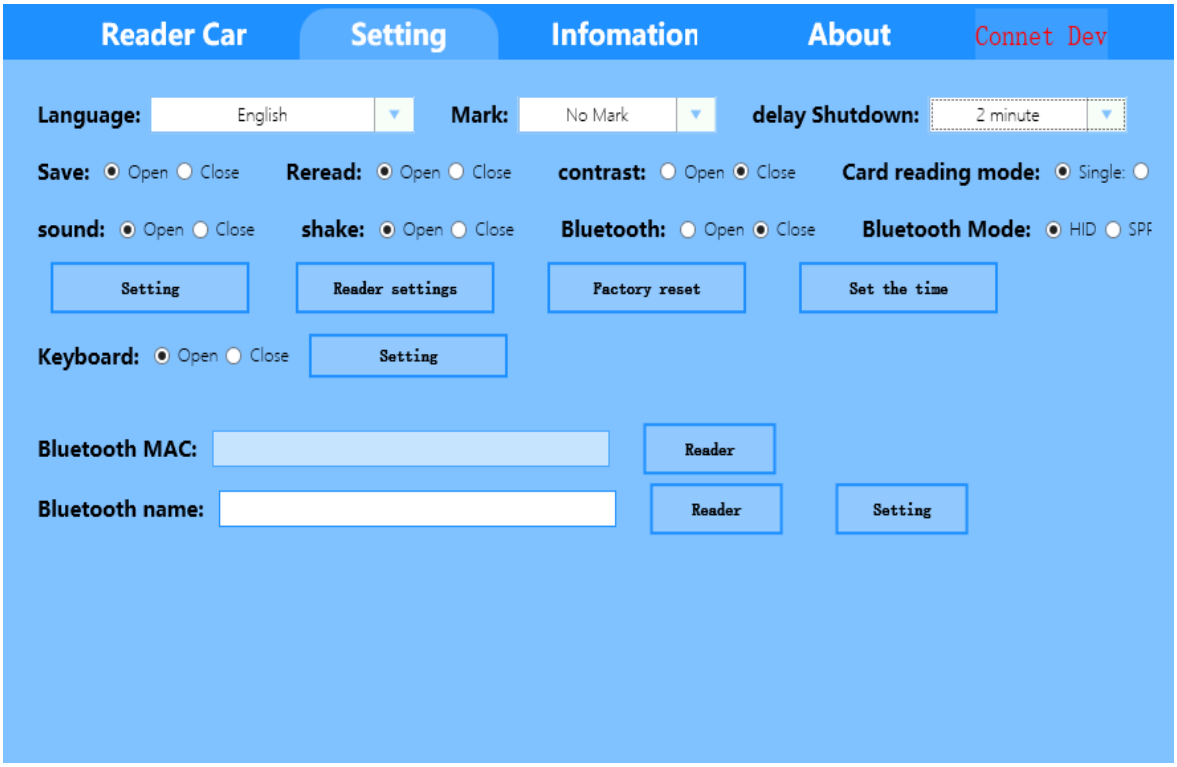
Reader： Display the Contrast data stored by the device in the host computer software text box.

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.

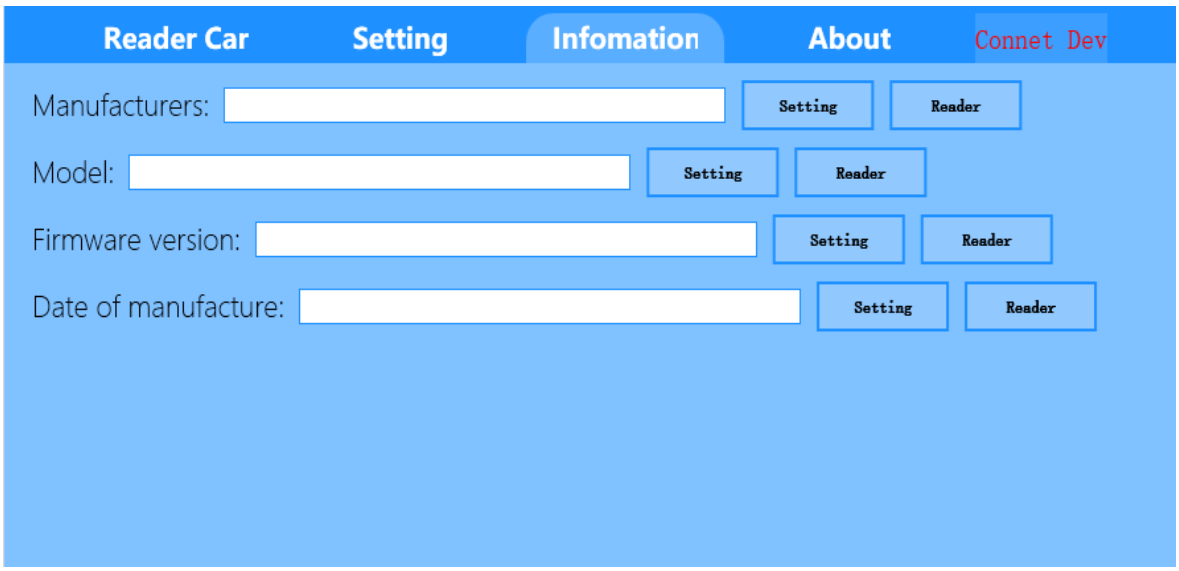
Reader / reader settings: Read the switch or mode status of the current related functions of the device.

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: 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).

6. 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

7. Packing list

Order number	Name
1	USB data wire
2	USB charger
3	A handheld device
4	The 2.4G receiving head

8. 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.

9. Release note

Imprint	
version number	V1.0.0
refresh time	2024.1.12