CM-5200 RFID ANIMAL READER

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USER MANUAL

1. Instruction

This is a low frequency tag scanner that using wireless identification technology and it supports reading EMID, FDX-B(ISO11784/85) etc. tag. This scanner using high brightness OLED display screen, and can be seen clearly inside the house or under the strong light outside. It can store up to 6000 tag information with its built-in memory, users can send the information to the computer through USB cable or wireless connection to manage data. This product is stable and easy to use, it can be used for animal management, resource management, railway inspection etc.

2. Performance parameter

Physical Parameters	
Frequency	134.2Khz/125Khz
Tag format	EMID、FDX-B(ISO11784/85)
Reading/writing distance	2*12mm glass tag>15cm 30mm animal tag>25cm
Reading access time	<100ms
Signal indicator	128*64 high brightness OLED, buzzer
Power	3.7V-4.2V(Li battery)
Power consumption	Working:0.9W Standby:0.04W
Storage capacity	6000 information(tag coding + time)
Storage time	>20 years
communication port	USB2.0,wireless USB HID(optional), Bluetooth(optional)
Weight	300g (without battery)
Language	Chinese, English(Can be customized to your requirement)
Work temperature	-10℃～50℃
Storage temperature	-30℃～70℃

3.1 Display screen introduction

The scanner can display e-tag information, time, communication mode and storage mode simultaneously with a 128*64 high brightness OLED display. Display screen is shown as image 1.

```
                    Wirless   System    Battery
                              Time      Indication
R:Reread Mode                  ↓          ↓
S:Storage Mode  →   RSB →    9/10  08:11  53 ▭
B:Wirless Mode
                          FDX-B        ←   Tag type
0122:               999  000000000003  ←   UID
Stored Massages
6000:           →     <-  0122 / 6000  ->
Total Capacity
```
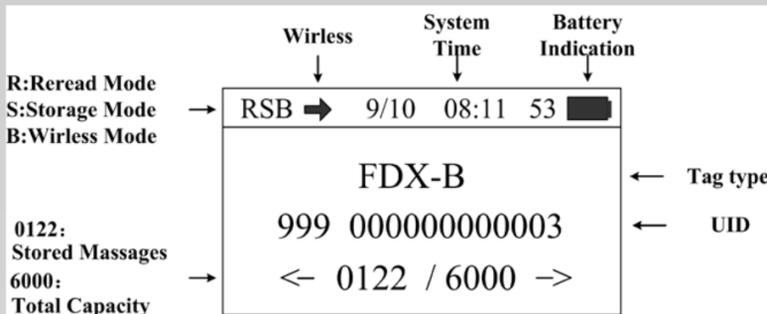
3.2 Basic operation

♦ Power on

Press and hold the "SCAN" key for 2 seconds in power off mode to power on and enter the main display screen.

♦ Scanning tag

Press "scan" key in main display screen, then the screen will display "scanning" and start scanning tag. The buzzer will ring once after reading the tag and the current tag information will appear on the screen at the same time. The buzzer will ring once and the screen will display "No tag found" if there's no tag information can be scanned in 10 seconds.

♦ Data viewing

Press '<' / '>' key in the main screen to view tag information and time.

♦ Turn off automatically

In power on mode, the system will enter standby mode automatically if there's no operation or data transmission within 2 minutes.

3.3 System setting

Press and hold "SCAN" key in power on mode to enter setting mode, the screen will be shown as below.

```
RSB →    9/10   08:11  53 ▭

 > 1.Language        (EN)

   2.Storage         (Y)

   3.Reread          (Y)
```
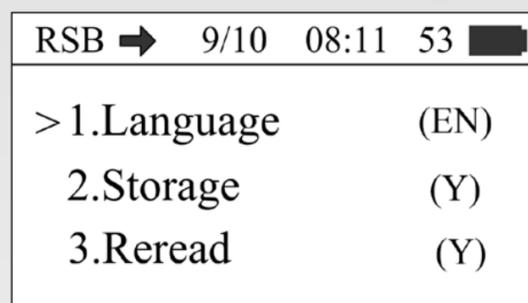
Image 2 Setting mode screen1

```
RSB →    9/10   08:11  53 ▭

 > 4.Bluetooth       (NO)

   5.Link Printer

   6.Clear Record    (3)
```
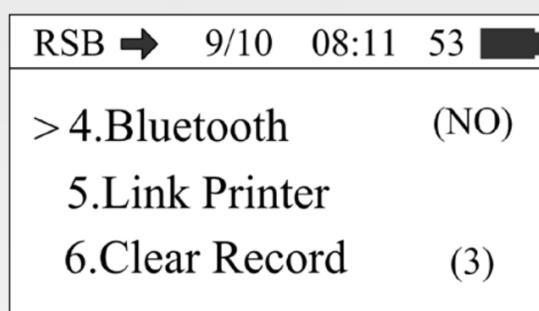
Image 3 Setting mode screen2

```
RSB →    9/10   08:11  53 ▭

 > 7.Scan Mode       (TT)

   8.Beep            (N)

   9.Power off
```
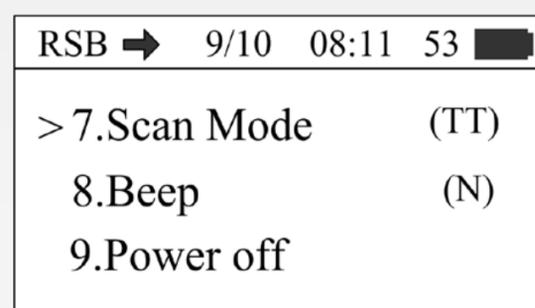
Image 4 Setting mode screen 3
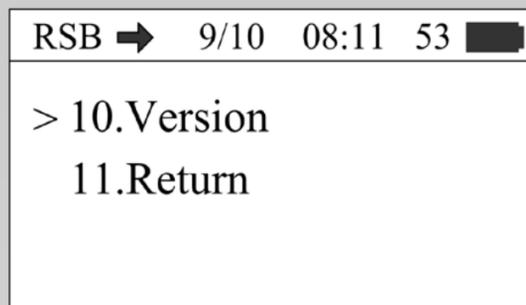
Image 5 Setting mode screen 4

In setting mode, press '<'/'>' key to select different function settings.

♦ Language Selection

This Scanner support Chinese or English display.

Move '>'cursor to the 'Language' menu, press the 'SCAN' key to select 'CH(Chinese)' or 'EN(English)'.

♦ Storage mode setting

Move '>'cursor to the 'Storage' menu, press 'SCAN' key to select 'Y' or 'N'. The scanner will store tag information and operation time when the storage mode is set to 'Y', the scanner will not store tag information and time if the storage mode is set to ' N'.

♦ Reread mode setting
Move '>'cursor to the 'Reread' menu, press the 'SCAN' key to select 'Y' or 'N'. The scanner will compare the data after reading tag information when the reread mode is set to ' N', the buzzer will ring twice if the current tag information has been stored, users can select whether to store current tag information by themselves. The scanner will not compare the data and store the tag information when the reread mode is set to 'Y'.

♦ Bluetooth mode setting
Move '>'cursor to the 'Bluetooth' menu, press the 'SCAN' key to select 'SL' , 'MA' or 'NO'.'SL' is the Bluetooth slave mode, 'MA' is the Bluetooth master mode, 'NO' is the Bluetooth power off mode.

♦ Link printer
Move '>'cursor to the 'Bluetooth' menu, press the 'SCAN' key to link the Bluetooth printer. If the scanner link the Bluetooth printer successfully, the scanner will display 'OK'.

♦ Clear Record
Move '>'cursor to the 'Clear Record' menu, press the 'SCAN' key for 3 times, the scanner will clear the tag information stored inside.

♦ Scan mode setting
Move '>'cursor to the 'Scan mode' menu, press the 'SCAN' key to select 'TT' or 'BA'. 'TT' is the RFID scan mode , 'BA' is the Barcode scan mode.

♦ Buzzer setting
Move '>'cursor to the 'Beep' menu, press the 'SCAN' key to select 'Y' or 'N'. 'Y' is the buzzer power on mode, 'N' is the buzzer power off mode.

♦ Power off
Move '>'cursor to the 'Power off' menu, press the 'SCAN' key to turn the scanner off .

♦ Viewing version information
Move '>'cursor to the 'Version' menu, press the 'SCAN' key to view the version information.

♦ Exiting setting mode
Move '>'cursor to the 'Return' menu, press the 'SCAN' key to Exit setting mode.

♦ System time setting
Scanner system time can be set by one key setting on computer, please refer to "Data transmission management".

The information stored in Scanner can be managed by sending them to computer through USB cable or wireless transmission.

4.1 Data base management software

The scanner has a USB2.0 port, you can check storage information, copy data, delete data and system time setting by data base management software after connecting the scanner to your computer through USB cable.

Data base management software is shown as below:
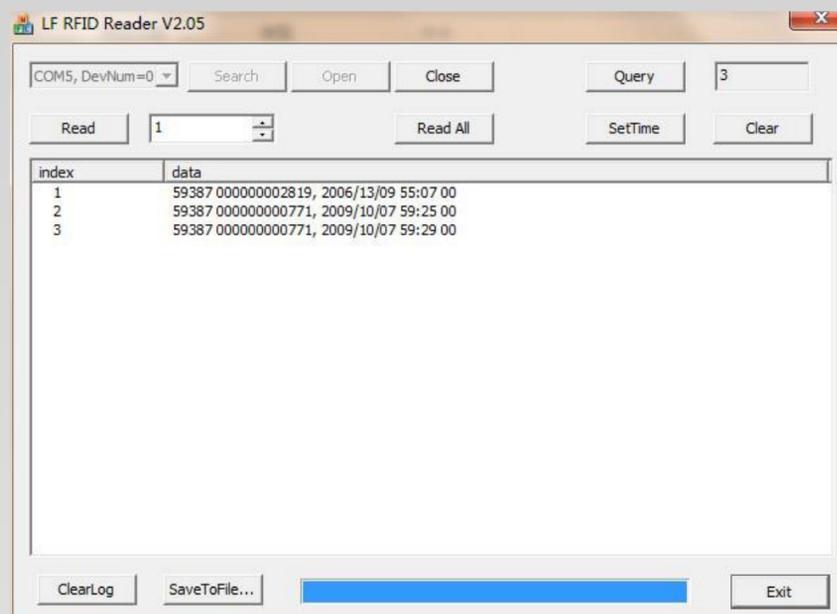
Image 3 Data base management software screen

Connecting the scanner to your computer with a USB cable, then enabling the data base management software, if the function button on the software screen is turned gray to black (it means the system connection is succeed), you can proceed to the next step (you may need to install driver for the first time). The functions of the buttons are described as below:

Query： Get the amount of tag information stored in the scanner.

Read： Read tag information in according to the setting amount.

Read All： Read all the information stored in the scanner.

Set Time： Set system time of scanner.

Clear： Clear tag information stored in scanner (Note: The information cannot be recovered after deleting).

Clear Log： Clear the data in the textbox.

Save To File： Save the derived data to Excel table.

Exit： Disable software.

4.2 Wireless data transmission function

♦ Bluetooth transmission

User can connect the scanner by computer via a Bluetooth interface. Select the Bluetooth slave mode on the setting mode of the scanner, search and add Bluetooth Device in the computer.The Bluetooth Device's name is 'RPD-A03B',enter '0000' as the default passkey.

3) Data Format：

FDX-B: $004;0010:900098765432098#（'900098765432098' is the tag information） EMID: $005;0011:000000010856962#（'0010856962' is the tag information）

5. Attentions

1. This scanner is electronic product, please transport and keep it as electrical equipment.

2. Avoid falling down from high places.

3. Do not expose this product to extreme temperatures, humidity or corrosive materials.

4. Unauthorized person can not open the casing.

5. Please use the provided data cable for connecting.

6. Try not to disassemble the battery cover frequently.

7. Please take out the battery if it has not being used for a long time to avoid damage to your product.

6. Package

Serial number	Item
1	USB cable
2	Wireless data receiver(optional)
3	portable scanner user manual