

# Catalogue

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## **Respected clients:**

Thanks for choosing us. We hope you take your valuable time to read the user manual before using the barcode reader. Hope this will be a good base for a smooth use. Any enquiries, please contact us. Thanks.

## **I.Product Characteristic:**

- a. Exquisite and beautiful design, external protected by soft rubber and internal scientific solidification structure, so its drop resistance better than ordinary scanner.
- b. The latest technical accomplishment is applied to the engine and decoding function, reading codes better and faster than the similar in the market.
- c. Easy using, easy setting.
- d. Large capacity, 1.5 times higher than ordinary scanner, it guarantees use longer after fully charged.

## **II Function and Use Description**

- a. Automatic frequency hopping and strong anti-interference capacity

b. Under the “Normal Mode”, the transmission distance is over 400m where there are no obstacles. If exceed the transmission distance or the data is loaded failed, 3 short prompt sound will be sent out.

c. Each scanner has a unique mechanical ID, it guarantees not disturb each other when many scanners work at the same time.

d. The customizable ID enables the user to distinguish the data source easily.

e. The pairing method is very simple, one pairing can be used for a long time and repeated pairing is applicable.

f. The “Check Mode” is simple and can be used easily, and can storage 500–10000 barcode messages (customization is needed if messages are more than 500).

g. Automatic sleeping, the sleeping current is less than 10UA, which largely prolongs the standby time of battery.

h. A special charging circuit guarantees the charging safety.

i. Scanner can be forced shutdown after pressing trigger 12s in any case

### III : Pairing Operation

#### 1. Pairing Mode



One to One



One to One and Storage



One to More



More to One

Pairing operation: first insert the receiver into the computer usb interface and the receiver indicator light will be on (default is 5s). Need to read “One to One” barcode in 5s, the scanner will have two “beeps” and the light will be off and shortly to flickering mode. This shows the scanner can communicate. If not succeed there will be three “beeps”, should pair again. The “One to One” mode can support 1 million scanners working at the same location.



One to One Stored  
Data Upload



Total One to One  
Stored Data



One to One Stored  
Data Reset



One to One Stored  
Data Restore



One to One Stored Data  
Breakpoint Continuingly



Clear All One to More Pairing



Clear All More to One Pairing

#### (II) ID Display and Hiding Setting



Opening ID Setting



ID Display



ID Hiding

**Note:** When paired devices including scanners/usb receivers are broken or lost, in order not to effect the transmission speed, you can read “Clear All One to More Pairing” or “Clear All More to One Pairing” barcode to clear previous pairing, then pair it again.

## ID Setting Parameters



0



1



2



3



4



5



6



7



8



9

## (III) Sleeping Time Setting



Opening Time Setting



20S



30S



60S



2min



5min



10min



20min



8 hour



No Sleeping

## (IV) Working Mode Setting



Normal Mode



Non-Losing Mode



Check Mode



Total Checking Data



Upload Checking Data



Clear Checking Data



Restore Checking Data



Clear Non-Losing  
Stored Data



Total Non-Losing mode  
Stored Data



Checking Data Breakpoint  
Continuingly



Turn On The Sound Of  
Store Data Upload



Turn Off The Sound  
Of Store Data Upload

**Explanation:** User “Non-Losing Mode”, when exceeding the wireless transmission range, the data will be stored and after reaching the wireless transmission range the data will be uploaded to the receiver. If no need the stored data, please read “Clear Non-Losing Mode Stored Data” barcode setting to clear data.

“Restore Checking Mode” can only restore the last time checking data. “Checking Data Breakpoint Continuingly” refers to the outage when data is during the upload process, just recharge the scanner, and read “Checking Data Breakpoint Continuingly” setting code, the last remaining data will be uploaded.

**Attention:** “Non-Losing Mode” is not suitable for using in the “Flicker Scanning Mode”、“Auto Scanning Mode”、“Continuous Scanning Mode”.

## (IV) Checking Data and Non-Losing Mode Stored Data Upload Time Setting



0.1S



0.5S



1S



2S



3S



4S



5S

## USB Upload Data Character Interval Time Setting



Interval Time Setting



0ms



25ms



50ms



75ms



100ms



125ms

(Attention: When USB receiver is used for Linux system equipment, please set “Interval Time Setting” as 75 ms.)

## Language Setting



English



Italian



German



French



Turkish



Czech



Finnish



Spanish

## IV. Restore Setting



Enter into Settings



Restore Factory Settings



Exit Settings

Attention: Before any function settings, please read “Enter into Settings” and then read the barcode of needed function settings and finally please read “Settings” If there is any needless function or parameter set before, please read “Restore Factory Settings” to restore settings

## V. Flicker Scanning Mode



Flicker Scanning



Flicker Scanning Time

Attention: The flicker scanning time can be set through reading the “Parameter Barcode” 01-09. Flicker time interval unit as 500 ms and can set 01-15 grade. For example, if the flicker time interval is 1000 ms, the procedures are “Enter Into Settings”- “Flicker Scanning Time”- “Parameter Barcode “0” “2” - “Quit Settings”.

## VI. Auto Scanning Mode



Auto Scanning



Reading Barcode Time





Enter into Settings



Exit Settings

Attention: Press the switch button after Auto Scanning Mode setting is accomplished, the scanner will automatically read the following barcodes. If re-press the switch button, the scanner will stop reading barcodes. Under default mode, it is not allowed to read the same barcode. Under the auto scanning mode, the reading barcode time can be set and time unit as 1s, the parameters range is 0-15s, 0 is infinite and can set if allowed to repeat reading the same barcode.



Not Allowed to Repeat  
Scanning the Same Barcode



Allowed to Repeat  
Scanning the Same Barcode



Start Timing after  
Scanning the Barcode

Attention: 1. Allowed to Repeat Scanning the Same Barcode Setting

When allowed, the scanner will automatically read the following barcodes. If re-press the switch button, the scanner will stop reading barcodes.

When not allowed, the scanner will automatically read the following barcodes. If the same barcode comes again, a continuous waiting mode will show. If there is no same barcode, the scanner keeps reading till you re-press the switch button, the scanner stops reading.

2: Start Timing after Scanning the Barcode Setting

After a successful reading, reading time returns to zero and start timing.

## VII Continuous Scanning Mode



Continuous Scanning



Scanning Interval Time



Scanning the Same  
Barcode Interval time

Attention: When Continuous Scanning Mode set, the scanner enters into continuous reading code without pressing switch button. Under continuous scanning mode, the scanner can set the scanning interval time and the interval time unit as 500ms, parameter range is 0-7500ms. Under continuous scanning mode allows continuously read the same barcode via setting scanning interval time.

Read the same barcode twice in 0.1 seconds, the time interval can be set between 0 and 12.0 seconds. When set to 12.7 seconds means not allow to read the same barcode. The numerical must have three numbers, zero shows if less than three numbers.

For example: the scanning interval for the same barcode for 2000 ms steps as follows:

1. "Enter Into Settings"
2. " Scanning the Same Barcode Interval Time"
3. "Parameter Barcode " 0" " 2" "0"
4. " Quit Settings"

## VIII Security Level Settings

(Attention: The higher the level, the lower the reading barcode error rate and slower the speed)



Enter into Settings



Exit Settings



1



2



3



4

## IX Barcode type settings



Open The Code  
ID Before Barcode



Close The Code  
ID Before Barcode



Restore Default the Code ID

Attention: The code ID before the barcode means the corresponding barcode type, please check the sheet1-1.

Sheet 1-1

| Barcode Type       | CODE ID |
|--------------------|---------|
| UPC-A              | A       |
| UPC-E              | B       |
| EAN-8              | C       |
| EAN-13             | D       |
| ISSN               | E       |
| ISBN               | F       |
| Code 128           | G       |
| GS1-128            | H       |
| ISBT 128           | J       |
| Code 39            | K       |
| Code 93            | L       |
| Code 11            | M       |
| Interleaved 2 of 5 | N       |

| Code Type              | CODE ID |
|------------------------|---------|
| ITF-6                  | O       |
| ITF-14                 | P       |
| Matrix 2 of 5 (Europe) | S       |
| Matrix 2 of 5 (Japan)  | T       |
| Industrial 25          | U       |
| Standard 25            | V       |
| Codebar                | W       |
| Plessey                | X       |
| MSI-Plessey            | Y       |
| Gs1 Databar            | Z       |
|                        |         |
|                        |         |
|                        |         |



Enter into Settings



Exit Settings

## X Barcode Character Transfer Delaying Settings



Character Delaying Time

Attention: character delaying time is 0-75ms, 5ms as a grade, 15 grades in total. The default is 0ms.



Enter into Settings



Exit Settings

## XI Barcode Enable



Read All Types of Barcode



Forbid to Read All  
Types of Barcode

Attention: if some barcodes can't be read, please read "Read All Types of Barcode" and restore the factory default in case affecting the scanning speed.

## XII UPC/EAN-Attached Code Settings



Add Two Bits Attached Code



Add Five Bits  
Attached Code

\*Code39 to or not to transmit start character  
and stop character



to Transmit



Not to Transmit

## XIII Enter and Line Skip Settings



Cancel Enter



Enter



Enter into Settings



Exit Settings

## XV Add Prefix Setting



Add Prefix



Reveal Prefix



Not Reveal Prefix

For example: if need to add suffix "XY" before code "1234" steps as follows: 1. Enter into Settings 2. Add Prefix 3. read parameter code 5, 8, 5, 9 and then read "Save" 4. Quit Settings. After above settings and read "Reveal" Prefix" code, when read code "1234" again the "XY" will be change to: XY1234.

## XVI Add Suffix Settings



Add Suffix



Reveal Suffix



Not Reveal Suffix

For example: if need to add suffix "XY" after code "1234" , steps as follows: 1. Enter into Settings 2. Add Suffix 3. read parameter code 5, 8, 5, 9 and then read "Save" 4. Quit Settings. After above settings and read "Reveal Suffix" code, when read code "1234" again the "XY" will be added, change to: 1234XY.

## XIV Parameter Code



0



1



2



3



4



5



6



7



8



9



A



B



C



D



E



F



Save



Reset Parameter

Attention: If error happens after reading the parameter, please read "reset parameter" code to reset the needed parameter.

## XVII Add the Function Key Terminator



Enter into Settings



Exit Settings

### Terminator



F1



F2



F3



F4



F5



F6



F7



F8



F9



F10



F11



F12



HOME



TAB

## XVIII ASCII Code Setting (Attention: This setting aims to code 39 reading incompleted characters)



Close



Open

## XIX Parameter barcode and corresponding representing characters table.

| Parameter code | Representing characters | Parameter code | Representing characters | Parameter code | Representing characters | Parameter code | Representing characters | Parameter code | Representing characters |
|----------------|-------------------------|----------------|-------------------------|----------------|-------------------------|----------------|-------------------------|----------------|-------------------------|
| 2 d            | -                       | 4 4            | D                       | 5 b            |                         | 7 2            | r                       | 2 b            | +                       |
| 2 e            | .                       | 4 5            | E                       | 5 c            | \                       | 7 3            | s                       | 2 c            | ,                       |
| 2 f            | /                       | 4 6            | F                       | 5 d            | ]                       | 7 4            | t                       |                |                         |
| 3 0            | 0                       | 4 7            | G                       | 5 e            | ^                       | 7 5            | u                       |                |                         |
| 3 1            | 1                       | 4 8            | H                       | 5 f            | -                       | 7 6            | v                       |                |                         |
| 3 2            | 2                       | 4 9            | I                       | 6 0            | ,                       | 7 7            | w                       |                |                         |
| 3 3            | 3                       | 4 a            | J                       | 6 1            | a                       | 7 8            | x                       |                |                         |
| 3 4            | 4                       | 4 b            | K                       | 6 2            | b                       | 7 9            | y                       |                |                         |
| 3 5            | 5                       | 4 c            | L                       | 6 3            | c                       | 7 a            | z                       |                |                         |
| 3 6            | 6                       | 4 d            | M                       | 6 4            | d                       | 7 b            | {                       |                |                         |
| 3 7            | 7                       | 4 e            | N                       | 6 5            | e                       | 7 c            |                         |                |                         |
| 3 8            | 8                       | 4 f            | O                       | 6 6            | f                       | 7 d            | }                       |                |                         |
| 3 9            | 9                       | 5 0            | P                       | 6 7            | g                       | 7 e            | ~                       |                |                         |
| 3 a            | :                       | 5 1            | Q                       | 6 8            | h                       | 2 1            | !                       |                |                         |
| 3 b            | ;                       | 5 2            | R                       | 6 9            | i                       | 2 2            | "                       |                |                         |
| 3 c            | <                       | 5 3            | S                       | 6 a            | j                       | 2 3            | #                       |                |                         |
| 3 d            | =                       | 5 4            | T                       | 6 b            | k                       | 2 4            | \$                      |                |                         |
| 3 e            | >                       | 5 5            | U                       | 6 c            | l                       | 2 5            | %                       |                |                         |
| 3 f            | ?                       | 5 6            | V                       | 6 d            | m                       | 2 6            | &                       |                |                         |
| 4 0            | @                       | 5 7            | W                       | 6 e            | n                       | 2 7            | .                       |                |                         |
| 4 1            | A                       | 5 8            | X                       | 6 f            | o                       | 2 8            | (                       |                |                         |
| 4 2            | B                       | 5 9            | Y                       | 7 0            | p                       | 2 9            | )                       |                |                         |
| 4 3            | C                       | 5 a            | Z                       | 7 1            | q                       | 2 a            | *                       |                |                         |



## Simple Operation Guide

I. Pairing operation: first insert the receiver into the computer usb interface and the receiver indicator light will be on (default is 5s). Need to read “One to One” barcode in 5s , the scanner will have two “beeps” and the light will be off and shortly to flickering mode . This shows the scanner can communicate.

Attention: Pairing operation needs to accomplish in 5 seconds and can not set after blue indicator light is flicking. Needs to pull off usb receiver and insert receiver into the usb nterface and re-set as the previous steps. If not succeed there will be three “beeps”, if succeed there will be two “beeps”.

### II. ID Setting

After pairing operation is set, scanning“Opening ID Setting”, then scanning number you need(Read“0” and “1” represent the ID is 1).

### III. Switching off

When the scanner arrives at the previous set sleeping time, it is switched off automatically (the default setting is 20s ). Meantime it can be switched off compulsively by pressing the on/off button for 2 seconds. if the sleeping time is too short, can self-customize sleeping time (e. g. 2minutes) .

## IV. Charging

Please use our equipped charging cable to charge the scanner. If indication light is red, battery is being charged. When the battery is charged fully, the indication light will turn to blue.

Note: Under the “Non-Losing Mode”, when the signal exceeds the transmission distance and the receiver terminal can not receive signals. Barcode data which are read will be stored automatically, which guarantees the barcode data will not be lost.

The lost barcode data which are stored will be loaded in the computer automatically as long as the scanner can receive signals. Under this mode, working will not be affected by the transmission distance and the work efficiency of the user can be greatly improved!

## Sound Promotion Guide

- 1.Scanning setting alarm: One short beep.
- 2.Pairing operation failure: Three short beeps.
- 3.Data Unloading Success: two short beeps, Failure: three short beeps.
4. Low voltage alarm: A long beep happens when the scanner is on or scanning.

## Performance Parameters

Light Source: 620nmVisible red light diode

Trigger Mode: Manual (can be switched off after the on/off button is pressed for several seconds).

Imaging Sensor: CCD

Scanning Speed: 280times/second

Reading Precision:  $\geq 5\text{mil}$

Charging input voltage: 5VDC $\pm$ 0.25V

Max. Power: 650mw

Current: Max. Current 130ma, Working Current 86ma, Standby Current 42ma,  
Sleeping Current 5ua

Scanning angle: 55° 25° 75° (Tilt, Rotate, Deflection)

Decoding capacity: Code128, EAN-13, EAN-8, Code39, UPC-A, UPC-E, Codabar,  
Interleaved 2 of 5, ISBN, Code 93, UCC/EAN-128, GS1 Databar, etc.

Promotion pattern: Buzzer and LED indicator Weight: 200g

Gun Size: Length\*Width\*Height: 158mm\*68mm\*96mm

Charging interface type: RJ-45 crystal head, one meter long (equipped with 5V  
charger; the battery is being charged when the red light is on and fully charged  
when the blue light is on)

Hull material: ABS+PC

Temperature: 0°C to 50°C(Work)-40°C to60°C (Storage)

Setting mode: Manual (scanning and setting barcodes according to the sequence)

EMC: EN55022, EN55024

Electrical Safety: EN60950-1

Packaging level: IP 52

Anti-seismic capacity: This product can still work properly after falling down and  
being impacted on the concrete floor from 3 meter.

## **About the Warranty**

I. Since you buy our product with this card, you can enjoy the service of one year repair and lifelong maintenance for the rubber and plastic parts of the barcode scanner, 6 months repair service for the battery and the charger, and 3 months repair service for the data cable. During the repair period, the maintenance of the product is free.

Expire the warranty, we will charge the replaced components and maintenance cost;

II. If the product belongs to one of the below situations and verified by manufacturer, the user can't enjoy the free maintenance service:

- a. Expire the warranty period;
- b. The barcode scanner body is disassembled or the camera of the scanner is damaged;
- c. The surface or internal component of the scanner is seriously damaged;
- d. The product is damaged due to the wrong installation or operation;
- e. The serial number of the scanner is altered or does not confirm to the number written on the card.
- f. The scanner is damaged due to an artificial fault. For instance, it is inundate.
- g. The scanner is damaged due to natural disasters, e.g. fire disaster, flood and thunder stroke.
- h. The working or storage environment of the product, e.g. temperature or humidity, does not conform to the requirements in Operation Manual.

**Thank You For Choosing Our Products!**

|                  |         |  |
|------------------|---------|--|
| User Information | Name    |  |
|                  | Address |  |
|                  | Zipcode |  |
|                  | Tel     |  |
|                  | Email   |  |

|                         |                    |  |
|-------------------------|--------------------|--|
| Distributor Information | Name               |  |
|                         | Address            |  |
|                         | Zipcode            |  |
|                         | Operator Signature |  |
|                         | Distributor Seal   |  |

|               |  |
|---------------|--|
| Part No.      |  |
| Serial No.    |  |
| Purchase Date |  |

## Appendix

| Accessories Name | Quantity |
|------------------|----------|
| Scanner          | 1        |
| U Type Receiver  | 1        |
| USB Charge Cable | 1        |
| Manual           | 1        |

## Maintenance Recode

| Date | Fault Description | Maintenance Record | Operator |
|------|-------------------|--------------------|----------|
|      |                   |                    |          |
|      |                   |                    |          |
|      |                   |                    |          |
|      |                   |                    |          |
|      |                   |                    |          |
|      |                   |                    |          |

Please make sure to read the instructions about maintenance carefully at the back of the card. Fill out various data above carefully and the file valid only if it is signed with the official of the authorized dealer.