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# ScanAvenger

# Wireless / Bluetooth / USB

# 1D/2D Barcode Scanner



cCheck Pty Ltd

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## Disclaimer

Please read through the manual carefully before using the product and operate it according to the manual. It is advised to keep this manual for future reference.

Do not disassemble the device or remove the seal label from the device as this will void the warranty.

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## Table of Contents


Disclaimer ..... 2

Interface ..... 9

USB keyboard ..... 10

Control the character escape ..... 10

Carriage return and line feed processing in the barcode content (USB keyboard) ..... 10

USB keyboard transmission speed ..... 11

USB keyboard uppercase and lowercase output control ..... 11

Formal output ( default) ..... 11

Keyboard Layouts ..... 12

Virtual keyboard ..... 15

The system selection in virtual keyboard mode ..... 16

Enable and disable invoice function ..... 17

Invoice type ..... 18

Serial configuration ..... 18

Baud rating ..... 18

Serial data bit, stop bit, check bit configuration ..... 19

GS Control character replacement ..... 21

Scan mode ..... 22

Disable auto sense mode ..... 22

Enable auto sense mode ..... 22

Same barcode decoding time ..... 23

Center mode ..... 23

Light configuration ..... 24





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Buzzer setting ..... 24
Sound ..... 24
Setup the scanner indication sound ..... 25
Disable setup the scanner indication sound ..... 25
Enable setup the scanner indication sound (default) ..... 25
Successfully decoding indication sound ..... 25
Successfully decoding indication sound frequency (Tone) ..... 25
Successfully decoding indication sound time ..... 26
Error warning indication sound frequency (tone) ..... 26
Prefix and suffix ..... 27
Start character ..... 27
End character ..... 27
Customized prefix ..... 28
Output ..... 28
Edit ..... 28
Customized suffix ..... 29
Output ..... 29
Edit ..... 29
Code ID ..... 30
Output ..... 30
Edit ..... 30
AIM ID ..... 31
Barcode prefix suffix order selection ..... 32
Character edit ..... 33



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The data edit function can customize the Data field of the complete barcode content into 3 fields of Start / Center / End by configuring the Start / End field length. Please configure the length and transmission configuration of the Start / End field according to actual needs. ..... 33
Transmission configuration ..... 33
character length configuration ..... 34
Inversed barcode option ..... 34
Barcode type ..... 35
Enable / Disable all the barcodes ..... 35
Enable / Disable all the 1D barcodes ..... 35
Enable / Disable all the 2D barcodes ..... 35
Codabar ..... 37
Code 39 ..... 38
Code 32 （ Need enable code39) ..... 39
Interleaved 2 of 5（ITF25） ..... 40
Industrial 2 of 5 ..... 44
Matrix 2 of 5（4-24 bits） ..... 44
Matrix 2 of 5 length limited setting ..... 45
Code 93 ..... 45
Code 11 ..... 46
Code 128 ..... 47
ISBT-128 ..... 48
GS1-128 ..... 48
128 code length limited setting ..... 48



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128 code maximum length（0~50 bits） ..... 48
UPC-A ..... 49
UPC-A transfer EAN-13 ..... 49
UPC-E ..... 49
UPC-E parity ..... 50
UPC-E expand UPC-A ..... 50
EAN/JAN-8 ..... 50
EAN/JAN-13 ..... 51
UPC/EAN/JAN Additional code ..... 51
EAN13 transfer ISBN ..... 51
Enable EAN13 transfer ISBN ..... 52
EAN13 transfer ISSN ..... 52
GS1 DataBar（RSS14） ..... 52
GS1 DataBar Limited ..... 52
GS1 DataBar Expanded ..... 53
PDF417 ..... 53
Micro PDF417 ..... 53
QR Code ..... 53
Micro QR ..... 54
Data Matrix ..... 54
Aztec Code ..... 54
Appendix ..... 55
Barcode type ID form ..... 58
AIM ID form ..... 59



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Visible character ASCII  form....59
Control character set (USB keyboard mode)....61
Control character set (serial port and USB virtual serial port) ....62
Some functional configuration instructions and examples ....63
Barcode Length Limited Setting Example ....64
Warning sound....66
Reading tips ....66
Safety....67
Introduction to part 2 – Wireless Functions ....68
Setup code....68
Use instructions ....69
Restore Wireless Parameters ....70
Setting Custom Default Settings ....71
Version ....71
Wireless Matching Function Settings ....72
Communication mode switching....73
Shutdown....74
Electric quantity display....75
Wireless transmission mode ....76
Data Control (Data Processing for Storage Mode)....78
  Data upload ....78
  Total data....78
  Data clear....78
Long press 8 seconds into Bluetooth HID search ....80



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Scanner Matching Steps ..... 81
Computer Matching (2.4 G) ..... 81
Bluetooth terminal matching ..... 82
Android, IOS system keyboard settings (Bluetooth function) ..... 84
Transmission Speed Setting ..... 85
Set Bluetooth Name ..... 87
Sound setting ..... 89
Vibration setting ..... 91
Sleep time setting ..... 92
Language Settings ..... 94
Suffix setting ..... 96
Case conversion settings ..... 98
Hidden Character GS Replacement Function ..... 100
Add prefix and suffix settings ..... 101
Setting the prefix and suffix steps ..... 102
Cancel the prefix and suffix steps ..... 102
Hidden Character Settings ..... 103
Appendix -Led & Buzzer state description ..... 105
Appendix - buzzer prompt sound ..... 106
Appendix - Character List ..... 107



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The user manual has 2 parts. This first part focuses on configuration codes for the system of the scanner and the second party on the wireless engine. The user can set the function of the barcode reader by scanning one or more setting barcodes.

# Interface

The scanning device supports USB keyboard, USB serial port (USB-COM), and serial port interface mode.

Scan the barcode below can be configured as USB keyboard.

USB keyboard (Factory default)

Scan the barcode below to configure the scanner to serial mode.

Serial mode

Scan the barcode below to configure the scanner to USB serial mode. (Requires driver installation)

USB serial ( USB-COM)



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# USB keyboard

## Control the character escape

Enable control the character escape

Disable control the character escape( default)

## Carriage return and line feed processing in the barcode content (USB keyboard)

0A (Line Feed LF) only

0D (Carriage Return CR) (default)

Both 0A(Line Feed LR) and 0D(Carriage Return CR)



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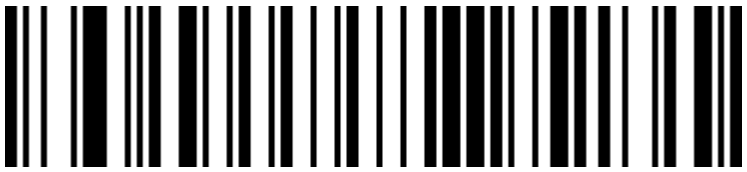
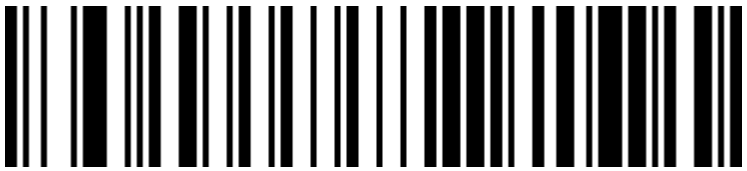
## USB keyboard transmission speed

Used to configure the speed when sending data by USB keyboard mode. If the PC that you are using has low performance, we recommend to choose a low speed to ensure transmission accuracy.



Transmission speed slow ( default)

Transmission speed middle



Transmission speed high

Customize speed（2ms~50ms）

## USB keyboard uppercase and lowercase output control

Formal output ( default)



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Uppercase and lowercase transfer

All uppercase

All lowercase

## Keyboard Layouts

English (United States) (default)

French (France)

Italian (Italy)

Italian 142 (Italy)

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German (Germany)

Spanish (Spain)

Spanish (Latin America)

Finnish

Japanese

Russian (MS)

Russian (typewriter)

Arabic (101)



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Irish

Polish (214)

Polish (Programmers)

Dutch (Netherlands)

Czech (QWERTZ)

Portuguese (Portugal)

Portuguese (Brazil)

Swedish (Sweden)



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Turkish Q

Turkish F

Greek (MS)

French (Belgium)

English (UK)

## Virtual keyboard

Mode 1: The characters between 0x20 and 0xFF are output in the virtual keyboard mode that is not supported by the current keyboard layout. The characters between 0x00 and 0x1F are output according to the control characters (Check Appendix).

Mode 2: All characters between 0x20 and 0xFF are output using the virtual keyboard mode. Characters between 0x00 and 0x1F are output according to the control characters (Check appendix).

Mode 3: The characters used between 0x00 and 0xFF are output by the virtual keyboard mode.



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Virtual keyboard off (default)

Enable virtual keyboard (Mode 1)

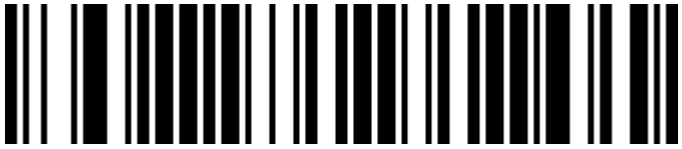
Enable virtual keyboard (Mode 2)

Enable virtual keyboard (Mode 3)

## The system selection in virtual keyboard mode

WINDOWS (default)

MAC OS



LINUX

## Output encoding format



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In order to output correctly according to the specified encoding format, you need to specify the output encoding format, such as Simplified Chinese in Notepad / excel output configuration into GBK encoding, in Word and other output configured into UNICODE encoding.

When the output encoding format is configured as English/Latin-1 encoding, the output mode of the USB keyboard is affected by the virtual keyboard function switch. When the output encoding format is configured as GBK encoding / UNICODE encoding, the output mode of the USB keyboard is forced to be the virtual keyboard output.

English/Latin-1 encoding（default）

GBK encoding（Notepad/excel）

UNICODE encoding（Word）

## Invoice function

Enable and disable invoice function

Disable invoice（default）



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Enable invoice

To ensure the correct output of the invoice content, when opening the invoic e code function, please configure the Chinese character output mode to GBK code (Notepad/excel), and turn off the function of changing the original cont ent of the barcode, such as Code ID, custom pre/suffix, and start character.

## Invoice type

Special invoice (default)

Formal invoice

## Serial configuration

### Baud rating

Baud 4800

Baud 9600 (default)



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Baud 19200

Baud 38400

Baud 57600

Baud 115200

## Serial data bit, stop bit, check bit configuration

7-bit data, 1 bit stop, no parity

7-bit data, 1 bit stop, even parity

7-bit data, 1 bit stop, odd parity



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7-bit data, 2-bit stop, no parity

7-bit data, 2-bit stop, even parity

7-bit data, 2-bit stop, odd parity

8-bit data, 1 bit stop, no parity (default)

8-bit data, 1 bit stop, even parity

8-bit data, 1 bit stop, odd parity

8-bit data, 2-bit stop, no parity



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8-bit data, 2-bit stop, even parity

8-bit data, 2-bit stop, odd parity

## GS Control character replacement

No replace (default)

To output the character "Ç", you must firstly scan "Enable virtual keyboard" (mode 1) or (mode 2) or (mode 3)

Replace to Ç

Replace to |

Replace to ^]



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Replace to ]

Replace to <GS>

## Scan mode

This product has auto sense mode. Scan the barcode below to configure.

### Disable auto sense mode

When auto sense mode is disabled, you should trigger scanner by pressing button. This mode is factory default.

Disable auto sense (default)

### Enable auto sense mode

When the auto sense mode is enabled, the scanner can automatically detect the barcode in front of the lens and scan barcode.

Enable auto sense



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## Same barcode decoding time

It is used to configure the interval time of decoding the same barcode. If the setting time is not exceeded, the same barcode will only be scanned once time.

Same barcode detection interval 500ms

Same barcode detection interval 750ms (default)

Same barcode detection interval 1s

Same barcode detection interval 2s

## Center mode

When the center mode is enabled, the scanner will only recognize the barcode which is located in the center of the screen that the scanner lens is facing. By default, this configuration is disabled.



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Disable center mode (default)

Enable center mode

## Light configuration

LED indication

Disable decoding successfully LED indication light

Enable decoding successfully LED indication light ( default)

## Buzzer setting

Sound

Sound low

Sound high (default)



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## Setup the scanner indication sound

Disable setup the scanner indication sound

Enable setup the scanner indication sound (default)

## Successfully decoding indication sound

Disable decoding successfully indication sound

Enable successfully decoding sound (default)

## Successfully decoding indication sound frequency (Tone)

Successfully decoding indication sound frequency 1 ( Factory defau lt)

Successfully decoding indication sound frequency 2 (2.7K)



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Successfully decoding indication sound frequency 3

## Successfully decoding indication sound time

Successfully decoding indication sound time long (default)

Successfully decoding indication sound time short

## Error warning indication sound frequency (tone)

In the event of a data transmission failure, there will be four continuous error warning sound, and a single error warning sound will appear when scanning an unrecognized configuration code.

Error warning indication sound frequency low ( default)

Error warning indication sound frequency low ( default)

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Error warning indication sound frequency high

## Prefix and suffix

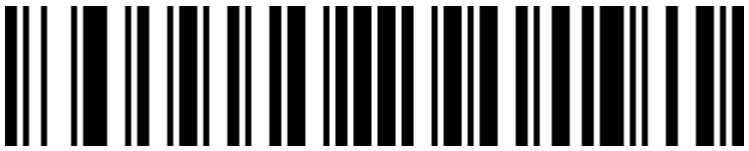
### Start character

No use start character (default)

Start character set to STX

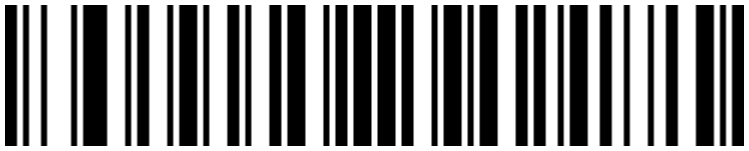
### End character

No end character



End character set to " carriage return"

End character set to "Line feed"



End character set to "Line feed" and " carriage return" (default)



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End character set to “Tab”

End character set to “ETX”

# Customized prefix

## Output

Enable Customized prefix output

Disable customized prefix output (Factory default)

## Edit

Clear all customized prefix



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Customized prefix

(Please set according to the barcode type ID table and data , edit barcode in the appendix after scanning.)

## Customized suffix

## Output

Enable customized suffix output

Disable customized suffix output ( default)

## Edit

Clear all the suffix

Customized suffix



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(Please set according to the barcode type ID table and data , edit barcode in the appendix after scanning.)

# Code ID

## Output

Disable CODE ID（default)

Enable CODE ID before barcode

Enable CODE ID after barcode

## Edit

Customized CODE ID

(Please set according to the barcode type ID table and data , edit barcode in the appendix after scanning.)

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Clear all customized CODE ID

## AIM ID

Disable barcode AIM ID（default)

Enable AIM ID before barcode

Enable AIM ID before barcode



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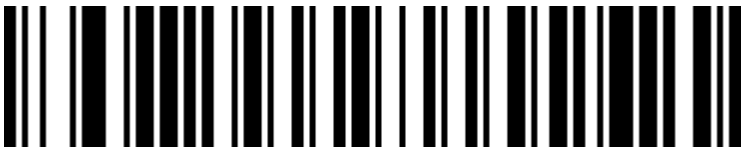
# Barcode prefix suffix order selection

## Prefix



Start character + CODE ID+AIM ID + Customized prefix (default)

Start character + Customized prefix + CODE ID+AIM ID

## Suffix

Customized suffix + CODE ID+AIM ID + End character (default)

CODE ID+AIM ID + Customized suffix + End character



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# Character edit

The data edit function can customize the Data field of the complete barcode content into 3 fields of Start / Center / End by configuring the Start / End field length. Please configure the length and transmission configuration of the Start / End field according to actual needs.

Note: The contents of non-barcodes such as customized suffixes, start characters, end characters, CODE ID, AIM ID are not affected by the data editing function.

## Transmission configuration

Transmit complete characters（default)

Only transmit first part

Only transmit Center part

Only transmit End part



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Set first part length

Set End part length

Note: The field length configuration is in bytes and is configured using decimal data.

For example: Set the length of the Start segment to 10 bytes, scan the barcode for setting the length of the Start segment, and then scan the data in the appendix and edit the 1, 0 in the barcode to save.

## Inversed barcode option

**(Mainly for 1D barcodes /Data Matrix/Aztec)**

Only normal barcode

Only inverse barcode

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# Barcode type

## Enable / Disable all the barcodes

Enable all barcode types may result in slower decoding speed. We suggest to open the required barcode type according to the requirement. All barcodes are on by default.

Enable all the barcode type

Disable all the barcode type

## Enable / Disable all the 1D barcodes

Enable all the 1D barcode type

Disable all the 1D barcode type

## Enable / Disable all the 2D barcodes

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Enable all the 2D barcode type

Disable all the 2D barcode type



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# Codabar

## Enable/Disable barcode

Enable Codabar

Disable Codabar

## Codabar Start / End character

Don’ t send Codabar start/end character ( default)

Send Codabar start/end character

## Codabar length limited setting

Codabar length limited setting

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Codabar maximum length（0~50 bits)

## Code 39

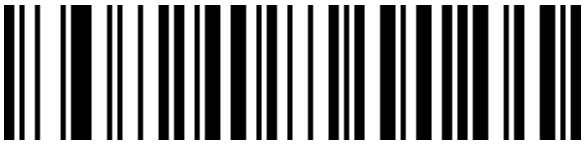
### Enable/Disable barcode

Enable Code 39

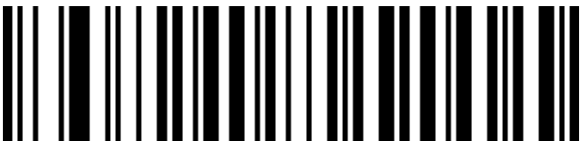
Disable Code 39

### Code 39 parity

Disable Code 39 parity（default)



Enable Code 39 parity but don’ t send parity



Enable Code 39 parity and send parity



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Enable Full ASCII

Disable Full ASCII（Factory default）

## Code 39 length limited setting

Code 39 minimum length（0~50 bits）

Code 39 maximum length（0~50 bits）

Code 32（Need enable code39）

## Enable/ Disable barcode

Enable Code 32

Disable Code 32



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## Interleaved 2 of 5 (ITF25)

### Enable/ Disable barcode

Enable ITF25

Disable ITF25

### Interleaved 2 of 5 (ITF25) parity

Enable ITF25

Disable ITF25

### Interleaved 2 of 5 (ITF25) parity

Disable ITF25 parity (default)

Enable ITF25 parity but don’ t send parity



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Enable ITF25 parity and send parity

**Interleaved 2 of 5 (ITF25) length option**

ITF25 random length (6-50 bits) (default)

ITF25 6 bits length

ITF25 8 bits length

ITF25 10 bits length

ITF25 12 bits length



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ITF25 14 bits length

ITF25 16 bits length

ITF25 18 bits length

ITF25 20 bits length

ITF25 22 bits length

ITF25 24 bits length

**Interleaved 2 of 5 length limited setting**



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Interleaved 2 of 5 minimum length (0~50 bits)

Interleaved 2 of 5 maximum length (0~50 bits)



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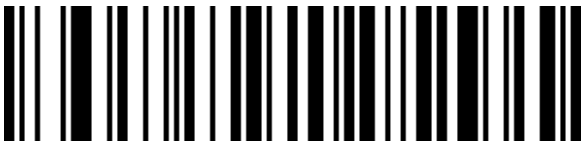
## Industrial 2 of 5

### Enable/Disable barcode

Enable Industrial 2 of 5



Disable Industrial 2 of 5

### Industrial 2 of 5 length limited setting

Industrial 2 of 5 minimum length (0~50 bits)

Industrial 2 of 5 maximum length (0~50 bits)

## Matrix 2 of 5 (4-24 bits)

### Enable/Disable barcode

Enable Matrix 2 of 5



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Disable Matrix 2 of 5

## Matrix 2 of 5 length limited setting

Matrix 2 of 5 minimum length (0~50 bits)

Matrix 2 of 5 maximum length (0~50 bits)

## Code 93

### Enable/Disable barcode

Enable Code 93

Disable Code 93

### Code 93 length limited setting

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Code 93 length limited setting

Code 93 maximum length (0~50 bits)

Code 11

**Enable/Disable barcode**

Enable Code 11

Disable Code 11 ( default)

**Code 11 parity output**

Enable Code 11 parity output

Disable Code 11 parity output ( default)



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## Code 11 parity option

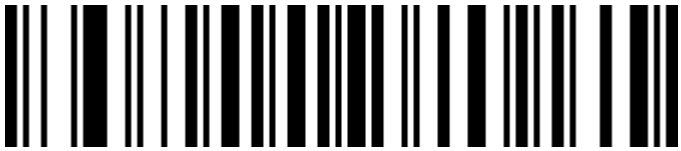
Disable Code 11 parity (default)

Code 11 1-bit parity

Code 11 2 bits parity

## Code 11 length limited setting

Code 11 minimum length (0~50 bits)



Code 11 maximum length (0~50 bits)

Code 128

Enable Code 128

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Disable Code 128

## ISBT-128

Disable ISBT 128

Enable ISBT 128

## GS1-128

Enable GS1-128

Disable GS1-128

## 128 code length limited setting

128 code minimum length (0~50 bits)

128 code maximum length (0~50 bits)



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## UPC-A

### Enable/Disable barcode

Enable UPC-A

Disable UPC-A

### UPC-A parity

Send UPC-A parity（default)

Don’ t send UPC-A parity

## UPC-A transfer EAN-13

Enable UPC-A transfer EAN-13

Disable UPC-A transfer EAN-13（default)

## UPC-E

### Enable/Disable barcode



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Enable UPC-E

Disable UPC-E

## UPC-E parity

Send UPC-E parity（default）

Don’ t send UPC-E parity

## UPC-E expand UPC-A

UPC-E expand UPC-A

Disable UPC-E expand UPC-A（Factory default）

## EAN/JAN-8

Enable EAN/JAN-8



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Disable EAN/JAN-8

## EAN/JAN-13

Enable EAN/JAN-13

Disable EAN/JAN-13

## UPC/EAN/JAN Additional code

Ignore UPC/EAN/JAN additional code（default ）

Decode UPC/EAN/JAN additional code

Adaptive UPC/EAN/JAN additional code

## EAN13 transfer ISBN



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## Enable EAN13 transfer ISBN

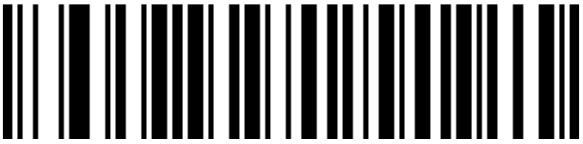
Disable EAN13 transfer ISBN code (Factory default)

## EAN13 transfer ISSN

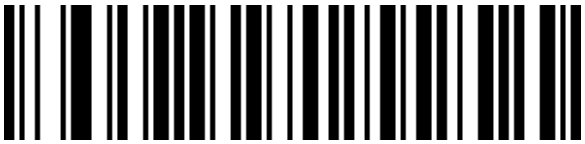
Enable EAN13 transfer ISSN code

Disable EAN13 transfer ISSN code (Factory default)

## GS1 DataBar (RSS14)



Enable GS1 DataBar



Disable GS1 DataBar

## GS1 DataBar Limited

Enable GS1 DataBar Limited

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Disable GS1 DataBar Limited

## GS1 DataBar Expanded

Enable GS1 DataBar Expanded

Disable GS1 DataBar Expanded

## PDF417

Enable PDF417

Disable PDF417

## Micro PDF417

Enable Micro PDF417

Disable Micro PDF417

## QR Code

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Enable QR

Disable QR

## Micro QR

Enable Micro QR

Disable Micro QR

## Data Matrix

Enable Data Matrix

Disable Data Matrix

## Aztec Code

Enable Aztec

Disable Aztec



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# Appendix

Data and Edit Barcode

0

1

2

3

4

5



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6

7

8

9

A

B

C

D



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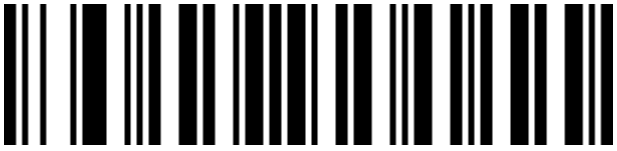
E

F

Cancel current setting



Cancel a previously read string of data

Cancel a previously read string of data

Save



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# Barcode type ID form

| Barcode type | HEX | CODE ID( Factory default) |
|---|---|---|
| | 99 | |
| Codabar | 61 | a |
| Code128 | 6A | j |
| Code32 | 3C | < |
| Code93 | 69 | i |
| Code39 | 62 | b |
| Code11 | 48 | H |
| EAN-13 | 64 | d |
| EAN-8 | 64 | d |
| GS1 DataBar | 79 | y |
| GS1-128 (EAN-128) | 6A | j |
| 2 of 5 | | |
| Interleaved 2 of 5 | 65 | e |
| Matrix 2 of 5 | 76 | v |
| Industry 2 of 5 | 44 | D |
| UPC-A | 63 | c |
| UPC-E | 63 | c |
| ISBN | 42 | B |
| ISSN | 6E | n |
| Aztec Code | 7A | z |
| DataMatrix | 75 | u |
| PDF417 | 72 | r |
| Micro PDF417 | 53 | S |
| QR Code | 51 | Q |
| Micro QR Code | 51 | Q |



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# AIM ID form

| Barcode type | AIM ID | instructions |
|---|---|---|
| Codabar | ]Fm | m：0~1 |
| Code128 | ]C0 | m：0，1，2，4 |
| Code32 | ]A0 | |
| Code93 | ]G0 | |
| Code39 | ]Am | m：0，1，3，4，5，7 |
| Code11 | ]Hm | m：0，1，3，8，9 |
| EAN-13 / EAN-8 | ]Em | m：0，1，3，4 |
| GS1 DataBar | ]e0 | |
| GS1-128 (EAN-128) | ]C1 | |
| Interleaved 2 of 5 | ]Im | m：0，1，3 |
| Matrix 2 of 5 | ]X0 | |
| Industry 2 of 5 | ]S0 | |
| UPC-A/ UPC-E | ]Em | m：0，3 |
| ISBN | ]X0 | |
| ISSN | ]X0 | |
| Aztec Code | ]z0 | |
| DataMatrix | ]dm | m: 0~6 |
| PDF417 / Micro PDF417 | ]Lm | m: 0~5 |
| QR Code / Micro QR Code | ]Qm | m: 0~6 |

# Visible character ASCII form

| *Decimal system* | *Hex* | *Character* | *Decimal system* | *Hex* | *Character* | *Decimal system* | *Hex* | *Character* |
|---|---|---|---|---|---|---|---|---|
| *32* | *20* | *<SPACE>* | *64* | *40* | *@* | *96* | *60* | *`* |
| *33* | *21* | *!* | *65* | *41* | *A* | *97* | *61* | *a* |
| *34* | *22* | *"* | *66* | *42* | *B* | *98* | *62* | *b* |



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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 35 | 23 | # | 67 | 43 | C | 99 | 63 | c |
| 36 | 24 | $ | 68 | 44 | D | 100 | 64 | d |
| 37 | 25 | % | 69 | 45 | E | 101 | 65 | e |
| 38 | 26 | & | 70 | 46 | F | 102 | 66 | f |
| 39 | 27 | ' | 71 | 47 | G | 103 | 67 | g |
| 40 | 28 | ( | 72 | 48 | H | 104 | 68 | h |
| 41 | 29 | ) | 73 | 49 | I | 105 | 69 | i |
| 42 | 2A | * | 74 | 4A | J | 106 | 6A | j |
| 43 | 2B | + | 75 | 4B | K | 107 | 6B | k |
| 44 | 2C | , | 76 | 4C | L | 108 | 6C | l |
| 45 | 2D | - | 77 | 4D | M | 109 | 6D | m |
| 46 | 2E | . | 78 | 4E | N | 110 | 6E | n |
| 47 | 2F | / | 79 | 4F | O | 111 | 6F | o |
| 48 | 30 | 0 | 80 | 50 | P | 112 | 70 | p |
| 49 | 31 | 1 | 81 | 51 | Q | 113 | 71 | q |
| 50 | 32 | 2 | 82 | 52 | R | 114 | 72 | r |
| 51 | 33 | 3 | 83 | 53 | S | 115 | 73 | s |
| 52 | 34 | 4 | 84 | 54 | T | 116 | 74 | s |
| 53 | 35 | 5 | 85 | 55 | U | 117 | 75 | u |
| 54 | 36 | 6 | 86 | 56 | V | 118 | 76 | v |
| 55 | 37 | 7 | 87 | 57 | W | 119 | 77 | w |
| 56 | 38 | 8 | 88 | 58 | X | 120 | 78 | x |
| 57 | 39 | 9 | 89 | 59 | Y | 121 | 79 | y |
| 58 | 3A | : | 90 | 5A | Z | 122 | 7A | z |
| 59 | 3B | ; | 91 | 5B | [ | 123 | 7B | { |
| 60 | 3C | < | 92 | 5C | \ | 124 | 7C | \| |
| 61 | 3D | = | 93 | 5D | ] | 125 | 7D | } |
| 62 | 3E | > | 94 | 5E | ^ | 126 | 7E | ~ |
| 63 | 3F | ? | 95 | 5F | _ | | | |



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# Control character set (USB keyboard mode)

| *Decimal system* | *Hex* | *Corresponding key value (control character escape off)* | *Corresponding key value (control characters are escaped)* |
|---|---|---|---|
| 0 | 00 | Keep | Ctrl+@ |
| 1 | 01 | Insert | Ctrl+A |
| 2 | 02 | Home | Ctrl+B |
| 3 | 03 | End | Ctrl+C |
| 4 | 04 | Delete | Ctrl+D |
| 5 | 05 | PageUp | Ctrl+E |
| 6 | 06 | PageDown | Ctrl+F |
| 7 | 07 | ESC | Ctrl+G |
| 8 | 08 | Backspace | Ctrl+H |
| 9 | 09 | Tab | Ctrl+I |
| 10 | 0A | Enter (Performance is affected by carriage return and line feed processing configuration) | Ctrl+J |
| 11 | 0B | Caps Lock | Ctrl+K |
| 12 | 0C | Print Screen | Ctrl+L |
| 13 | 0D | Enter (Performance is affected by carriage return and line feed processing configuration) | Ctrl+M |
| 14 | 0E | Scroll Lock | Ctrl+N |
| 15 | 0F | Pause/Break | Ctrl+O |
| 16 | 10 | F11 | Ctrl+P |
| 17 | 11 | Direction key ↑ | Ctrl+Q |
| 18 | 12 | Direction key↓ | Ctrl+R |
| 19 | 13 | Direction key ← | Ctrl+S |
| 20 | 14 | Direction key → | Ctrl+T |
| 21 | 15 | F12 | Ctrl+U |
| 22 | 16 | F1 | Ctrl+V |
| 23 | 17 | F2 | Ctrl+W |
| 24 | 18 | F3 | Ctrl+X |
| 25 | 19 | F4 | Ctrl+Y |
| 26 | 1A | F5 | Ctrl+Z |
| 27 | 1B | F6 | Ctrl+[ |
| 28 | 1C | F7 | Ctrl+\ |
| 29 | 1D | F8 | Ctrl+] |
| 30 | 1E | F9 | Ctrl+^ |
| 31 | 1F | F10 | Ctrl+_ |



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# Control character set (serial port and USB virtual serial port)

| *Decimal system* | Hex | Character |
|---|---|---|
| 0 | 00 | NUL |
| 1 | 01 | SOH |
| 2 | 02 | STX |
| 3 | 03 | ETX |
| 4 | 04 | EOT |
| 5 | 05 | ENQ |
| 6 | 06 | ACK |
| 7 | 07 | BEL |
| 8 | 08 | BS |
| 9 | 09 | HT |
| 10 | 0A | LF |
| 11 | 0B | VT |
| 12 | 0C | FF |
| 13 | 0D | CR |
| 14 | 0E | SO |
| 15 | 0F | SI |
| 16 | 10 | DLE |
| 17 | 11 | DC1 |
| 18 | 12 | DC2 |
| 19 | 13 | DC3 |
| 20 | 14 | DC4 |
| 21 | 15 | NAK |
| 22 | 16 | SYN |
| 23 | 17 | ETB |
| 24 | 18 | CAN |
| 25 | 19 | EM |
| 26 | 1A | SUB |
| 27 | 1B | ESC |
| 28 | 1C | FS |



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| | | |
|---|---|---|
| 29 | 1D | GS |
| 30 | 1E | RS |
| 31 | 1F | US |

# Some functional configuration instructions and examples

Configure barcode prefix / suffix by scanning barcode, each prefix or suffix can be up to 10 characters. (To ensure that custom suffixes can be output, please configure the scanner's custom suffix / suffix output options to be on.)

**Example 1.1: Add customized prefix XYZ to all types of barcodes**

Check the appendix barcode type ID table. The HEX value of all barcode systems is 99. Check the visible character ASCII table. The HEX value corresponding to XYZ is 58,59,5A.

Scan the configuration code customized prefix, the barcode scanner will issue two beeps, and then scan the appendix data and edit the 9, 9, 5, 8, 5, 9, 5, A in the barcode, Save, then complete the configuration.

If you need to modify the scanned barcode before saving, you can also scan to “cancel the previous data” or “cancel a previously read string of data”. If you need to abandon the configuration midway, scan directly cancel the current setting.

**Example 1.2: Add customized prefix R to QR code**



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Query the appendix barcode type ID table. The HEX value of the QR code is 51. Query the visible character ASCII table. The HEX value corresponding to R is 52.

Scan the configuration code to customize the prefix, then scan the data in the appendix and edit 5,1,5,2 in the barcode, save, then complete the configuration.

**Example 1.3: Cancel customized prefix of QR code**

When customized suffixes are used, no additional characters are saved after the barcode type characters to save the customized suffixes for this type of barcode.

Scan the configuration code “customize the prefix”, then scan the appendix data and edit 5, 1 in the barcode, save, and complete the configuration.

**Note:** If there is a prefix added for all barcodes before, the QR code prefix will be restored to the prefix added for all barcodes after configuration.

If you need to clear the prefix / suffix added for various barcode types, scan “clear all customized prefixes” and “ clear all customized suffix configuration codes”.

## Barcode Length Limited Setting Example

When configuring the minimum barcode length configuration, you must ensure that the configured minimum length is not bigger than the current maximum length configuration, otherwise an error will be prompted. Similarly, when configuring the maximum bar code length, you must also



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ensure that the configured maximum length is not less than the current minimum length configuration.

**Example 2.1: Configure Code 128 barcode length to 4-12 digits**

Scan “Code 128 minimum length limit”, then scan 4 in the appendix data and edit the barcode, save,

Scan “Code 128 maximum length limit”, then scan the appendix data and edit the 1, 2 in the barcode, save, then complete the configuration.

**Example 2.2: Configure the length of Interleaved 2 of 5 barcode to 14 digits**

Configure Interleaved 2 of 5 barcode length 14 bits can directly scan and configure the barcode “ITF25 14-bit length” for configuration, or configure the maximum and minimum barcode length:

Scan “ Interleaved 2 of 5 minimum length limit”, then scan appendix data and edit 1, 4 in barcode, save,

Scan “ Interleaved 2 of 5 maximum length limit”, then scan the appended data and edit the 1, 4 in the barcode, save, then complete the configuration.

**Example 2.3: Configure Code 39 barcode length to any supported length**

Scan “ Code 39 minimum length limit”, then scan appendix data and edit 0 in barcode, save,

Scan “Code 39 maximum length limit”, then scan the appendix data and edit the 0 in the barcode, save, then complete the configuration.

**USB keyboard send speed configuration example**



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If the client PC has weak performance and is easy to transmit error, you need to customize the USB keyboard sending speed to a slower speed, such as 50ms:

Scan the “ Customize speed”, then scan the appended data and edit the 5,0 in the barcode, save it, then complete the configuration.

## Warning sound

When the data transmission is abnormal, the scanner will issue four continuous alarm sounds. If this happens, please check whether the connection line is normal.

## Reading tips

1. In order to obtain a good reading effect, the aiming beam emitted by the handheld scanner should be aimed at the center of the barcode, but it can be aimed in any direction for reading.

2. Hold the scanner in front of the barcode and press the button to align the collimator beam with the center of the barcode.

3. When the handheld scanner is close to the barcode , the smaller the aiming beam ,Or the larger the aiming beam.

4. If the barcode is small, the handheld scanner should be close to the barcode. If the barcode is large, the handheld scanner should be a little far away from the barcode, so that it is easier to read the barcode correctly.



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**5.** If the barcode is highly reflective (for example: coated surface), you may need to make the scanner at an angle to successfully scan the barcode.

## Safety

When using the handheld scanner, the illumination light is strong. Do not look directly or aim at your eyes to avoid discomfort or injury.



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# Introduction to part 2 – Wireless Functions

This second part of the manual is mainly used to introduce how to set up wireless related functions of wireless scanner products.
You can set the scanner by setting it up.

# Setup code

The scanner can set the corresponding function by reading one or a group of special barcodes. In the following chapters, we will introduce the corresponding setting options and functions in detail and provide the corresponding setting codes.



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# Use instructions

All the functions of this barcode scanner are set by scanning the setting barcodes. First, scan "enter setup mode" barcode, and then scan the function barcode to be set, then scan the "exit setup mode" barcode after finishing setting. Some common function barcodes can scan the function barcode directly to complete the setting.  This kind of barcode identification is ★, such as "★ power display".

Enter Setup Mode

Exit Setup Mode

Note: Wireless Version 1.18D later supports setting without entering or exiting settings.



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# Restore Wireless Parameters

If in use of the process, accidentally scan to other function settings code, which led to the scanning function cannot be used normally, through the scan initialization barcode to restore to the initialization state.

Restore Wireless Parameters

**Instructions:**

This bar code is most likely to be used in the following situations:

1. Error in scanner setting.
2. You forget what settings you made for scanners before, and you don't want to use the previous settings.
3. Set up the scanner to use some unusual functions, and use after completion.



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# Setting Custom Default Settings

By setting custom default settings, the default values of wireless parameters of wireless scanner can be set to the required functions. First scan the "Enter Settings Mode" bar code, then scan the required wireless parameter function, and then scan the "Exit Settings Mode" bar code after the completion of settings. The existing function will replace the original factory default value after the settings are completed, and the original state will not be restored even if the settings for restoring wireless parameters are set.

%%SpecCode92

%%SpecCode92

Setting Custom Default Settings

# Version

%%SpecCode39

Display version information



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# Wireless Matching Function Settings

This equipment can complete the wireless pairing operation in accordance with the following steps, the default factory has good pairing.

Matching with Receiver

1. Pull out the wireless Receiver from the computer.
2. Scan " Enter Setup Mode ".
3. Scanning " Matching with Dongle " enters the matching mode, at which time the scanner light is extinguished and the code cannot be read.
4. Insert the receiver into the computer USB interface.
5. When you hear "DI", the receiver pair is successful.
6. Scan "Exit Setup Mode"



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# Communication mode switching

a: Start the scanner and scan the "Enter Setup Mode" bar code

Enter Setup Mode

b: Scanning a Bar Code for a Communication Mode Based on Requirements

2.4G Mode

Virtual Bluetooth Mode

Bluetooth HID Mode

Bluetooth SPP Mode



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Bluetooth BLE Mode

c: Scan the "Exit Setup Mode" bar code and set up the communication mode to complete.

Exit Setup Mode

# Shutdown

Users can set bar codes by referring to "automatic sleep time". When users do not need the scanner to be in working state, they first scan the "Enter Setting Mode" bar code, and then scan the "Shutdown Instruction" to set bar codes. When the settings are completed, the scanner will be shut down immediately.

Shutdown



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# Electric quantity display

When users need to view the current scanner power, they can directly scan the "power display" set bar code, and view the current scanner power.

★Electric quantity display



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# Wireless transmission mode

The barcode scanner has two operating modes: Synchronous Mode and storage mode, through a different set code to operate the mode switch:

a: First scan “Enter setup mode ” barcode

b: Scan the required operating mode barcode

c: Scan “Exit Set mode” barcode to switch the desired mode of operation

## Synchronous mode

Scanning "Synchronization Mode" sets bar code, setting bar scanner as synchronization mode, users scan common bar code, that is, sweep-and-pass, and discard it when disconnected.

★Synchronous mode*



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## Storage mode

Scanning "storage mode" sets bar code, setting bar scanner as storage mode, users scan common bar code, do not upload directly to the computer, data will be stored in the bar code.

★ Storage mode



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# Data Control (Data Processing for Storage Mode)

## Data upload

When users need to upload data stored in barcodes to computers or mobile devices, scanning "data upload" can upload data to computers or mobile devices.

When using data upload, the barcode stored by the original scanner will not be deleted unless the data is scanned to clear the barcode.

★data upload

## Total data

When users need to count the total amount of data stored in barcodes, scanning "Total Data" can upload the total amount of data stored in scanners to computers or mobile devices.

★Total data

## Data clear

When the user needs to clear the data stored in the scanner, scanning "data clear" can clear all the data stored in the scanner.



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★data clear



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# Long press 8 seconds into Bluetooth HID search

When using Bluetooth Scanner, the Bluetooth configuration connection can be faster when the HID search of Bluetooth is opened for 8 seconds.

A: Start the scanner and scan the "Enter Setup Mode" bar code

Enter Setup Mode

B: Functional Barcode for Scanning

long press 8 seconds to enter Bluetooth HID search

Close long press 8 seconds to enter Bluetooth HID search

C: Scan the "Exit Setup Mode" bar code and set up the communication mode to complete.

Exit Setup Mode



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# Scanner Matching Steps

## Computer Matching (2.4 G)

For 2.4G matching steps, support XP, Win7, Win8, Win10, etc.

A: Start the scanner, scan “Enter Setup Mode” barcode

Enter Setup Mode

B: Scan “2.4G Mode” barcode

2.4G Mode

C: Scan the "Matching with Receiver" bar code and enter the pairing state. The blue light on the left flashes quickly.

Note: At this time, the scanner is in a paired state, and the scanner does not glow when pressing the key.

Matching with Receiver

D: Insert Dongle (receiver) and hear a "drop" sound, indicating the success of the connection pairing. The blue indicator on the right is always on.

E: Scan the "Exit Setup Mode" bar code to complete the matching process.



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Exit Setup Mode

## Bluetooth terminal matching

Using Bluetooth mode, support Android, IOS system or PC terminal with Bluetooth function.

**Method 1:**

A: Start the bar scanner, press the button for 8 seconds, and enter the Bluetooth HID matching mode. The left and right blue lights flicker alternately.

B: Turn Bluetooth on the device and search for "Barcode Scanner HID".

C: Click on the "Barcode Scanner HID" Bluetooth device to enter the pairing state.

d: Match success "Di" sound, the right blue light is always bright



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**Method 2:**

a: Start the scanner, scan “Enter Setup Mode” barcode

Enter Setup Mode

b: Scan the “Bluetooth HID mode” barcode

Bluetooth HID Mode

c: Scan the “Paired With Dongle” barcode, enter the pair state. The left and right blue light will flash alternately. ( Or click the button double times to exit setup mode, back to the scanning state.)

Paired With Dongle

d: Open Bluetooth in the device and search for the Barcode scanner HID

e: Click the Bluetooth device to enter the match status

f: Match success "Di" sound, the right blue light is always bright

g: Scan “Exit Setup Mode” barcode

Exit Setup Mode



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# Android, IOS system keyboard settings (Bluetooth function)

IOS keyboard out or hide（HID Mode）

%%SpecCode1A

%%SpecCode1A

★Out Or Hide

Double click for out IOS keyboard（Only HID Mode）

%%SpecCode7B

%%SpecCode7B

★Double click for out IOS keyboard

Double click for close IOS keyboard（Only HID Mode）

%%SpecCode7A

%%SpecCode7A

★Double Click For Close IOS keyboard

For keyboard display of Android system, please contact the supplier for Bluetooth input method APP (because of Android system, some mobile phone manufacturers can display virtual keyboard when connecting Bluetooth scanner)



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# Transmission Speed Setting

A: Start the scanner and scan the "Enter Setup Mode" barcode

%%EnterSet

Enter Setup Mode

B: Select the desired keyboard language

%%SpecCodeB0

Fast

%%SpecCodeB1

Medium

%%SpecCodeB2

Low

%%SpecCodeB3

Very Low

c: scan” Exit Setup Mode” barcode



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Exit Setup Mode



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# Set Bluetooth Name

A: start scanning scanner, "enter setup mode" bar code

enter setup mode

B: Scan "Set Bluetooth Name" Barcode

Set Bluetooth Name

C: Scan Bluetooth Name Barcode

Note: The default name of Bluetooth is "Barcode Scanner". After this step is set, the bar code will be set to the name of Bluetooth.

A) Names can only be set to 16 bytes at most. If the name bar code exceeds 16 bytes, the first 16 bytes are used as Bluetooth names by the scanner.

B) The complete name of Bluetooth includes: Bluetooth name + protocol type, which only supports modification of Bluetooth name. After changing the Bluetooth name, the names of all Bluetooth protocols have changed.

For example, if the Bluetooth name is Scanner, then the Bluetooth HID name is Scanner HID, the SPP name is Scanner SPP, and the BLE name is Scanner BLE.

Sample Bluetooth Name “Scanner ”

C: Scan "Exit Setup Mode" bar code, set successfully.



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Exit Setup Mode

## Read Bluetooth Name

Scanning the "Read Bluetooth Name" bar code will query the Bluetooth name of the scanner.

Scanning the "Read Bluetooth Name" bar code will query the Bluetooth name of the scanner.

Read Bluetooth Name



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# Sound setting

A: Start the scanner and scan into the setup mode barcode

Enter Setup Mode

B: Select the appropriate sound size or frequency to scan according to the needs and set the bar code

turn sound off

Low volume

Middle volume

High volume *



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Buzzer frequency 2K

Buzzer frequency 2.7K

C: Scan "Exit Settings Mode" bar code, set successfully.

Exit Setup Mode



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# Vibration setting

A: Start the scanner and scan into the setup mode barcode

%%EnterSet

%%EnterSet

Enter Setup Mode

B: Select the bar code that you want to turn on or off the vibration

%%SpecCode76

%%SpecCode76

Turn Off Vibration (optional)

%%SpecCode77

%%SpecCode77

Turn On Vibration (optional)

C: scan" Exit Setup Mode" barcode

%%ExitSet

%%ExitSet

Exit Setup Mode

Note: Vibration function is selected for some products.



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# Sleep time setting

A: Start the scanner and scan into the setup mode barcode

Enter Setup Mode

b: Select the sleep interval bar code

Sleep interval 30s

Sleep interval 1min

Sleep interval 2min

Sleep interval 5min



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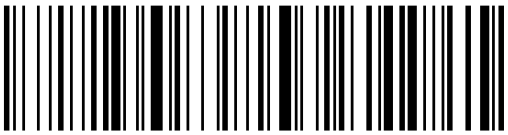
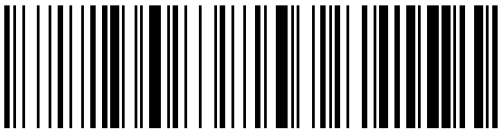
Sleep interval 10min



Sleep interval 30min



Never Sleep

Sleep Immediately

c: scan” Exit Setup Mode” barcode

Exit Setup Mode



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# Language Settings

A: Start the scanner and scan into the setup mode barcode

Enter Setup Mode

b: Select the desired keyboard language

English

Germany

French

Spanish



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Italian

Japanese

Belgian

International general keyboard

c: scan" Exit Setup Mode" barcode

Exit Setup Mode

Note: The international general keyboard supports all PC-side small languages.



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# Suffix setting

A: Start the scanner and scan the "Enter Setup Mode" bar code

Enter Setup Mode

B: Select the appropriate terminator to scan according to the requirement and set the bar code. The default is CR.

Add CR*

Add LF

Add CR+LF

Add TAB



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None

C: Scan "Exit Setup Mode" bar code, complete settings

C: Scan "Exit Setup Mode" bar code, complete settings



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# Case conversion settings

A: Start the scanner and scan the "Enter Setup Mode" bar code

Enter Setup Mode

B: Select the appropriate barcode settings to scan according to the requirements, and do not convert case to case.

Convert to lowercase

Convert to uppercase

Case interchange

No case conversion *

C: Scan "Exit Setup Mode" bar code, complete settings



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Exit Setup Mode

Note: This feature requires support after version 1.18D.



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# Hidden Character GS Replacement Function

A: Start the scanner and scan the "Enter Setup Mode" bar code

Enter Setup Mode

B: Select the appropriate settings to scan the bar code according to the requirement, and set whether the GS character bit "|" needs to be replaced.

Open GS character instead of "|"

Close the GS character and replace it with "|"*

C: Scan "Exit Settings Mode" bar code, complete settings

Exit Setup Mode

Note: This feature requires support after version 1.18D.



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# Add prefix and suffix settings

This product supports up to 32-byte prefix and suffix settings.

A: Start the scanner and scan the "Enter Setup Mode" bar code

Enter Setup Mode

B: Select the appropriate bar code to scan according to the requirements, and set the prefix and suffix to add.

Set prefix

Set suffix

C: Scan "Exit Settings Mode" bar code, complete settings

Exit Setup Mode



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## Setting the prefix and suffix steps

A: First scan the "Enter Settings Mode" bar code;

B: Scan the "Set Prefix" or "Set Suffix" barcodes;

C: Scanning the barcode corresponding to the characters that need to be added according to Appendix-Character Table;

C: Scan the "Exit Settings Mode" bar code to complete the settings.

## Cancel the prefix and suffix steps

A: First scan the "Enter Settings Mode" bar code;

B: Scan the "Set Prefix" or "Set Suffix" barcodes;

C: Scan the "Exit Settings Mode" bar code to complete the settings.



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# Hidden Character Settings

This product supports hiding up to four characters before and after default barcode

A: Start the scanner and scan the "Enter Setup Mode" bar code

%%EnterSet

Enter Setup Mode

B: Select the appropriate settings to scan the barcode according to the requirements, and set the front or back of the hidden barcode.

%%SpecCodeA0

Hidden Bar Code Front

%%SpecCodeA1

Hide the back of the bar code

C: Select the appropriate bar code to scan and set the number of hidden characters according to the requirement

%%01

Hide 1 bits



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%%02

Hide 2 bits

%%03

Hide 3 bits

%%04

Hide 4 bits

C: Scan "Exit Settings Mode" bar code, complete settings

%%ExitSet

Exit Setup Mode



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# Appendix -Led & Buzzer state description

| LED Light | Description |
|---|---|
| Left blue LED 1 | Flash briefly if scanning |
| Right blue LED 2 | successfully Wireless connection |
| Red LED | Charging |
| Blue 2 off, blue 1 Flash quickly | 2.4G pairing mode |
| Blue 1 off, Blue 2 Flash quickly | SPP pairing mode |
| Blue 1 and Blue2 alternately flash | HID pairing mode |
| Blue 1 and Blue 2 Synchronize flash quickly | BLE pairing mode |



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# Appendix - buzzer prompt sound

| Buzzer | Description |
|---|---|
| A long Sound | Power ON/OFF |
| A short sound(low frequency) | Scan common barcode, or paired, wireless connection success |
| 3 short sound(low frequency) | Wireless transmission failure buffer full |
| 5 short sound(low frequency) and stop scanning | Battery without electricity |
| 2 short sound(low frequency) | Wireless disconnection |
| 2 short sound(high frequency) | Setup code scanning is not work |

Note: The lighting instructions in this section vary slightly according to different product configurations. If you need to know more, you can contact the supplier.



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# Appendix - Character List

| Serial number | character | 1D Setup Code | 2D Setup Code |
|---|---|---|---|
| 1 | SOH | %%01 | %%01 |
| 2 | ^B | %%02 | %%02 |
| 3 | ^C | %%03 | %%03 |
| 4 | EOT | %%04 | %%04 |
| 5 | ENQ | %%05 | %%05 |
| 6 | ACK | %%06 | %%06 |
| 7 | BEL | %%07 | %%07 |



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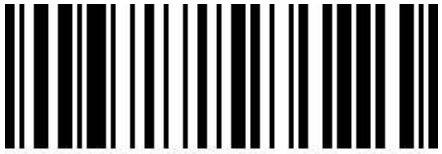
| | | | |
|---|---|---|---|
| 8 | Back Space | %%08 | %%08 |
| 9 | Tab | %%09 | %%09 |
| 10 | LF | %%0A | %%0A |
| 11 | VT |  %%0B | %%0B |
| 12 | FF | %%0C | %%0C |
| 13 | CR | %%0D | %%0D |
| 14 | F1 | %%0E | %%0E |
| 15 | F2 | %%0F | %%0F |



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| | | | |
|---|---|---|---|
| 16 | F3 | %%10 | %%10 |
| 17 | F4 | %%11 | %%11 |
| 18 | F5 | %%12 | %%12 |
| 19 | F6 | %%13 | %%13 |
| 20 | F7 | %%14 | %%14 |
| 21 | F8 | %%15 | %%15 |
| 22 | F9 | %%16 | %%16 |
| 23 | F10 | %%17 | %%17 |



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| | | | |
|---|---|---|---|
| 24 | F11 | %%18 | %%18 |
| 25 | F12 | %%19 | %%19 |
| 26 | SUB | %%1A | %%1A |
| 27 | Esc | %%1B | %%1B |
| 28 | Right Arrow | %%1C | %%1C |
| 29 | Left Arrow | %%1D | %%1D |
| 30 | Up Arrow | %%1E | %%1E |
| 31 | Down Arrow | %%1F | %%1F |



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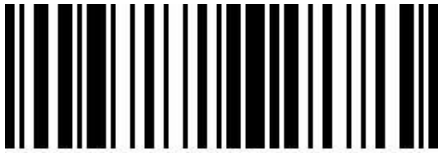
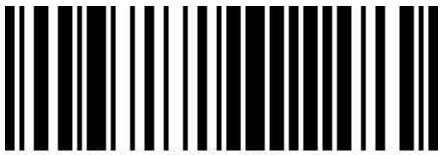
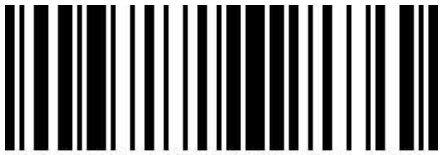
| | | | |
|---|---|---|---|
| 32 | Space | %%20 | %%20 |
| 33 | ! |  %%21 | %%21 |
| 34 | " | %%22 | %%22 |
| 35 | # |  %%23 | %%23 |
| 36 | $ | %%24 | %%24 |
| 37 | % | %%25 | %%25 |
| 38 | & | %%26 | %%26 |
| 39 | ' |  %%27 | %%27 |



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| | | | |
|---|---|---|---|
| 40 | ( | %%28 | %%28 |
| 41 | ) | %%29 | %%29 |
| 42 | * | %%2A | %%2A |
| 43 | + | %%2B | %%2B |
| 44 | , | %%2C | %%2C |
| 45 | - | %%2D | %%2D |
| 46 | . | %%2E | %%2E |
| 47 | / | %%2F | %%2F |



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| | | | |
|---|---|---|---|
| 48 | 0 | %%30 | %%30 |
| 49 | 1 | %%31 | %%31 |
| 50 | 2 | %%32 | %%32 |
| 51 | 3 | %%33 | %%33 |
| 52 | 4 | %%34 | %%34 |
| 53 | 5 | %%35 | %%35 |
| 54 | 6 | %%36 | %%36 |
| 55 | 7 | %%37 | %%37 |



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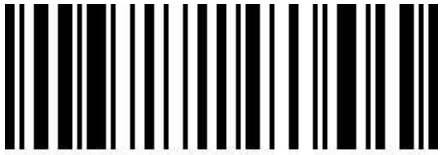
| | | | |
|---|---|---|---|
| 56 | 8 | %%38 | %%38 |
| 57 | 9 | %%39 | %%39 |
| 58 | : | %%3A | %%3A |
| 59 | ; | %%3B | %%3B |
| 60 | < | %%3C | %%3C |
| 61 | = | %%3D | %%3D |
| 62 | > | %%3E | %%3E |
| 63 | ? |  %%3F | %%3F |



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| | | | |
|---|---|---|---|
| 64 | @ | %%40 | %%10 |
| 65 | A | %%41 | %%11 |
| 66 | B | %%42 | %%12 |
| 67 | C | %%43 | %%13 |
| 68 | D | %%44 | %%14 |
| 69 | E | %%45 | %%15 |
| 70 | F | %%46 | %%16 |
| 71 | G | %%47 | %%17 |



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| | | | |
|---|---|---|---|
| 72 | H | %%48 | %%18 |
| 73 | I | %%49 | %%19 |
| 74 | J | %%4A | %%1A |
| 75 | K | %%4B | %%1B |
| 76 | L | %%4C | %%1C |
| 77 | M | %%4D | %%1D |
| 78 | N | %%4E | %%1E |
| 79 | O | %%4F | %%1F |



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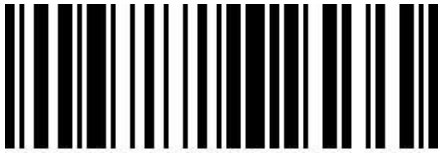
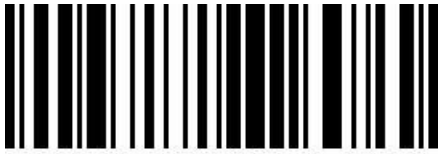
| | | | |
|---|---|---|---|
| 80 | P | %%50 | %%50 |
| 81 | Q |  %%51 | %%51 |
| 82 | R | %%52 | %%52 |
| 83 | S | %%53 | %%53 |
| 84 | T | %%54 | %%54 |
| 85 | U | %%55 | %%55 |
| 86 | V | %%56 | %%56 |
| 87 | W |  %%57 | %%57 |



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| | | | |
|---|---|---|---|
| 88 | X | %%58 | %%58 |
| 89 | Y | %%59 | %%59 |
| 90 | Z | %%5A | %%5A |
| 91 | [ | %%5B | %%5B |
| 92 | \ | %%5C | %%5C |
| 93 | ] | %%5D | %%5D |
| 94 | ^ | %%5E | %%5E |
| 95 | _ | %%5F | %%5F |



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| | | | |
|---|---|---|---|
| 96 | ` | %%60 | %%60 |
| 97 | a | %%61 | %%61 |
| 98 | b | %%62 | %%62 |
| 99 | c | %%63 | %%63 |
| 100 | d | %%64 | %%61 |
| 101 | e | %%65 | %%65 |
| 102 | f | %%66 | %%66 |
| 103 | g | %%67 | %%67 |



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| | | | |
|---|---|---|---|
| 104 | h | %%68 | %%68 |
| 105 | i | %%69 | %%69 |
| 106 | j | %%6A | %%6A |
| 107 | k | %%6B | %%6B |
| 108 | l | %%6C | %%6C |
| 109 | m | %%6D | %%6D |
| 110 | n | %%6E | %%6E |
| 111 | o | %%6F | %%6F |



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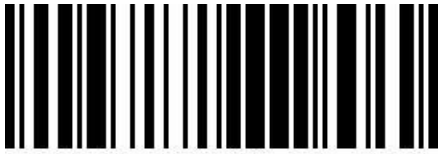
| | | | |
|---|---|---|---|
| 112 | p | %%70 | %%70 |
| 113 | q | %%71 | %%71 |
| 114 | r | %%72 | %%72 |
| 115 | s | %%73 | %%73 |
| 116 | t | %%74 | %%74 |
| 117 | u | %%75 | %%75 |
| 118 | v | %%76 | %%76 |
| 119 | w |  %%77 | %%77 |



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| | | | |
|---|---|---|---|
| 120 | x | %%78 | %%78 |
| 121 | y | %%79 | %%79 |
| 122 | z | %%7A | %%7A |
| 123 | { | %%7B | %%7B |
| 124 | \| | %%7C | %%7C |
| 125 | } | %%7D | %%7D |
| 126 | ~ | %%7E | %%7E |
| 127 | DEL | %%7F | %%7F |



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