**VM3290 Setting Manual**

**Version**

|  |  |  |
| --- | --- | --- |
| **Version NO.** | **Version description** | **Issue date** |
| V1.0.0 | [Initial](C:/Users/Administrator/AppData/Local/youdao/dict/Application/8.5.3.0/resultui/html/index.html#/javascript:;) [version](C:/Users/Administrator/AppData/Local/youdao/dict/Application/8.5.3.0/resultui/html/index.html#/javascript:;) | 2019-10-24 |
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# 

# Connect to scanner

Connect the scanner to the connector on the cable and the other end to the corresponding port on the PC.

**If the barcode configuration function has been turned off, turn on the barcode configuration function by scanning the setup code.**

# Enable/Disable configuration code

When the configuration code function is turned on, all configuration barcodes can be scanned for scanner configuration.

When the configuration code function is turned off, other configuration barcodes cannot be scanned for scanner configuration. You need to reopen to scan the configuration code for scanner configuration.



Enable configuration code\*



Disable configuration code

# Version



Version number

# Restore factory setting



Restore factory setting

# User configuration

Scan the barcode below to save the current parameters of the product as a user configuration.



Save user configuration

Scan the barcode below to return the product to a saved user configuration.



Restore user configuration

# Interface mode

**This device supports USB keyboard, USB to serial port (USB-COM), serial port interface mode.**



USB mode \*



RS232 mode (serial port)



USB-COM mode (driver is needed)

# USB keyboard configuration



Turn on control character escape



Turn off control character escape \*

### Enter and LF settings (USB keyboard)

****

Enable 0A (LF)

****

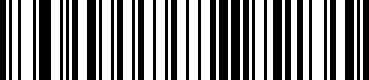
Enable 0D（Enter CR）\*

****

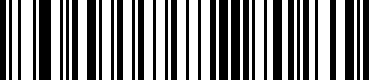
Enable 0A (LF) + 0D (CR)

## Transmission speed （USB keyboard）

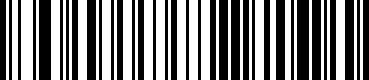
Used to configure the speed when sending data in USB keyboard mode. If the PC you are using has low performance, it is recommended to choose a low speed to ensure transmission accuracy.

****

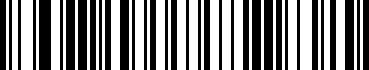
Low speed \*

****

Medium speed

****

High speed

****

Custom transmission speed（2ms~50ms）

## Letter case output (USB keyboard)



Normal output \*



Letter case reversal

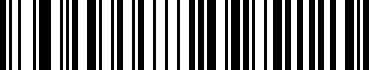


All Caps

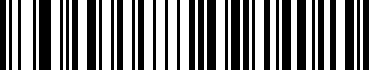


All lowercase

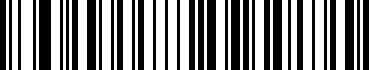
## Keyboard Layouts



English (United States) \*



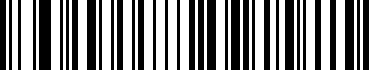
French (France)



Italian (Italy)



Italian 142 (Italy)



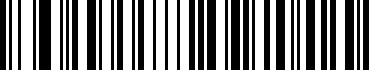
German (Germany)



Spanish (Spain)



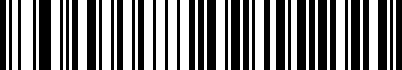
Spanish (Latin America)



Finnish



Japanese



Russian (MS)



Russian (typewriter)



Arabic (101)



Irish



Polish (214)



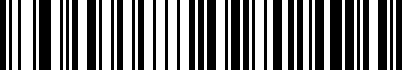
Polish (Programmers)



Dutch (Netherlands)



Czech (QWERTZ)



Portuguese (Portugal)



Portuguese (Brazil)



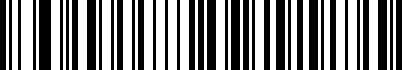
Swedish (Sweden)



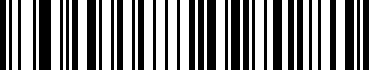
Q Turkish Q



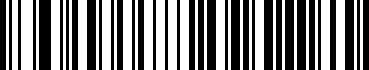
Turkish F



Greek (MS)



French (Belgium)



English (UK)

## Virtual keyboard

Mode 1： Characters between 0x20 and 0xFF are not supported under the current keyboard layout and are output using the virtual keyboard. Characters between 0x00 and 0x1F are output according to the control character definition（[Refer](C:/Users/Administrator/AppData/Local/youdao/dict/Application/8.5.3.0/resultui/html/index.html#/javascript:;) [to](C:/Users/Administrator/AppData/Local/youdao/dict/Application/8.5.3.0/resultui/html/index.html#/javascript:;) [appendix](C:/Users/Administrator/AppData/Local/youdao/dict/Application/8.5.3.0/resultui/html/index.html#/javascript:;)）

Mode 2：All characters between 0x20 and 0xFF are output using the virtual keyboard. Characters between 0x00 and 0x1F are output according to the control character definition ([Refer](C:/Users/Administrator/AppData/Local/youdao/dict/Application/8.5.3.0/resultui/html/index.html#/javascript:;) [to](C:/Users/Administrator/AppData/Local/youdao/dict/Application/8.5.3.0/resultui/html/index.html#/javascript:;) appendix)

Mode 3：All characters used between 0x00 and 0xFF are output using the virtual keyboard.

****

Turn off [virtual](C:/Users/Administrator/AppData/Local/youdao/dict/Application/8.5.3.0/resultui/html/index.html#/javascript:;) [keyboard](C:/Users/Administrator/AppData/Local/youdao/dict/Application/8.5.3.0/resultui/html/index.html#/javascript:;) \*

****

Turn on [virtual](C:/Users/Administrator/AppData/Local/youdao/dict/Application/8.5.3.0/resultui/html/index.html#/javascript:;) [keyboard](C:/Users/Administrator/AppData/Local/youdao/dict/Application/8.5.3.0/resultui/html/index.html#/javascript:;)（mode 1）

****

Turn on [virtual](C:/Users/Administrator/AppData/Local/youdao/dict/Application/8.5.3.0/resultui/html/index.html#/javascript:;) [keyboard](C:/Users/Administrator/AppData/Local/youdao/dict/Application/8.5.3.0/resultui/html/index.html#/javascript:;)（mode 2）

****

Turn on [virtual](C:/Users/Administrator/AppData/Local/youdao/dict/Application/8.5.3.0/resultui/html/index.html#/javascript:;) [keyboard](C:/Users/Administrator/AppData/Local/youdao/dict/Application/8.5.3.0/resultui/html/index.html#/javascript:;)（mode 3）

## Select host operating system in virtual keyboard mode

****

WINDOWS \*

****

MAC OS

****

LINUX

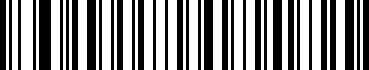
## Output coded format

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 \*

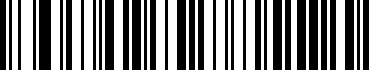


**GBK code (notepad /excel)**

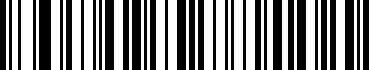


UNICODE encoding (Word)

## Invoice function



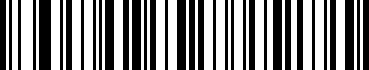
Disable Invoice function \*



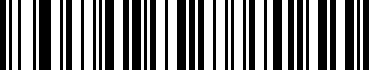
Enable Invoice function

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

### Invoice type selection



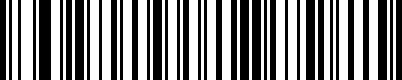
Special invoice \*



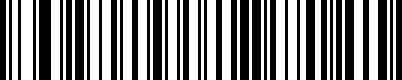
Regular invoice

# RS232 serial port configration

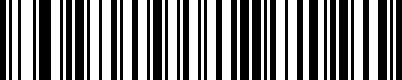
## Serial port baud rate configuration



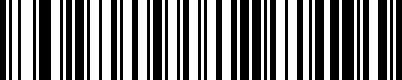
Baud rate 4800



Baud rate 9600 \*



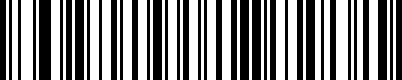
Baud rate 19200



Baud rate 38400



Baud rate 57600



Baud rate 115200

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



7 data bit, 1 stop bit, no check bit



7 data bit, 1 stop bit, check even number



7 data bit, 1 stop bit, check odd number



7 data bit, 2 stop bit, no check bit



7 data bit, 2 stop bit, check even number



7 data bit, 2 stop bit, check odd number



8 data bit, 1 stop bit, no check bit \*



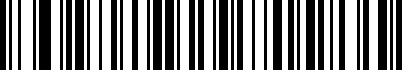
8 data bit, 1 stop bit, check even number



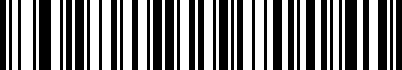
8 data bit, 1 stop bit, check odd number



8 data bit, 2 stop bit, no check bit



8 data bit, 2 stop bit, check even number



8 data bit, 2 stop bit, check odd number

# GS control character replacement

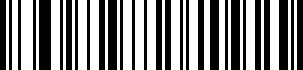
****

Not to replace \*

To output the character **"Ç"**, you must first scan **"enable virtual keyboard (mode 1)" or (mode 2) or (mode 3)**

****

Repalce with Ç

****

Repalce with |

****

Repalce with ^]

****

Repalce with ]

****

Repalce with <GS>

# Scan mode

## Auto sense mode



Auto sense off \*



Auto sense on

## Detecting same barcodes

It is used to configure the interval time for solving the same bar code. If it does not exceed the set time, the same bar code will only be solved once.



Interval time 500ms



Interval time 750ms \*



Interval time 1s



Interval time 2s

## Center mode

When the center mode is turned on, the scanner will only recognize the bar code located in the center area of the picture facing the scanner lens. This configuration is off by default。



Center mode OFF \*



Center mode ON

# Indicator light

## Decoded success LED Indicator light



OFF



ON \*

# Buzzer

## Volume

****

Low



High \*

## Scanner power on tone



OFF



ON \*

## Decoded success beep



OFF



ON \*

## Decoded success beep voice frequency



voice frequency 1 \*



voice frequency 2（2.7K）



voice frequency 3

## Decoded success beep duration



Long \*c



Short

## False warning beep voice frequency

When the data transmission fails, the code scanning gun will issue four error warning sounds. When it scans an unrecognized configuration code, the code scanning gun will issue a single error warning sound.



Low \*



Intermediate



High

# Prefix and suffix

## Start character



NO start character \*



Set start character as STX

## Ending character



No ending Character



CR



LF



CR+LF \*



TAB



ETX

## Customize prefix

### Output options



Enable customized prefix output



Enable customized prefix output \*

### Configuration



Remove all customized prefix

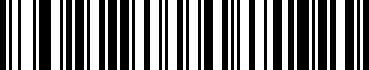


Customize prefix

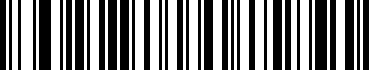
（After scanning, please set according to the barcode type ID table and data and edit the barcode in the appendix.）

## Customize suffix

### Output options



Enable customized suffix output



Disable customized suffix output \*

### Configuration



Remove all customized suffix



Customize suffix

## Code ID

### Output options



Turn off CODE ID \*



Turn on front CODE ID



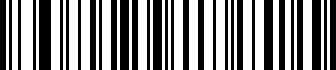
Turn on ending CODE ID

### Configuration



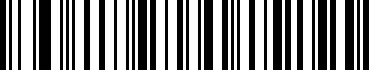
Customize CODE ID

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

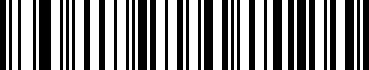


Remove all customized CODE ID

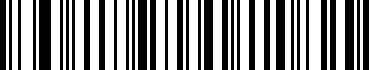
## AIM ID



Turn off AIM ID \*



Turn on front AIM ID



Turn on ending AIM ID

## Barcode prefix and suffix order selection

### Prefix



Start character +CODE ID+AIM ID+ customized prefix \*



Start character+ customized prefix+CODE ID+AIM ID

### Suffix



Customized suffix+CODE ID+AIM ID+ending character \*



CODE ID+AIM ID+ Customized suffix + ending character

# Data editing

The data editing 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:** Custom content such as custom suffix, start character, end character, CODE ID, AIM ID are not affected by data editing

## Transmission configuration



Transmit full data \*



Only transmit start field of barcode



Only transmit center field of barcode



Only transmit ending field of barcode

## Field length configuration



Set start field length



Set ending field 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 the configuration.

# Reversed barcode option

**（1D barcode only /DataMatrix/Aztec）**

****

Only read normal barcodes



Only read reversed barcodes



Read normal barcodes and reversed barcodes

# Barcode type selection

## Trun on / off all barcodes type

**Opening all bar code types may result in slower decoding speed. It is recommended to open the required bar code type according to the usage scenario. All barcodes are on by default.**



Turn on all barcode type \*



Turn off all barcode type

## Trun on / off all 1D barcodes type



Turn on all 1D barcodes \*



Turn off all 1D barcodes

## Trun on / off all 2D barcodes type



Turn on all 2D barcodes \*



Turn off all 2D barcodes

## Codabar



Enable Codabar



Disable Codabar

### Codabar Start character/end character

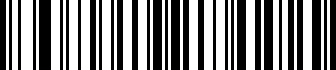


Not sending Start character/end character \*

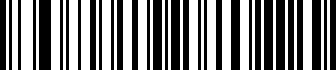


Send Start character/end character

### Codabar Length limit setting

****

Codabar Minimum length limit（0~50 bits）

****

Codabar Maximum length limit（0~50 bits）

## Code 39



Enable Code 39



Disable Code 39

### Code 39 check bit



Disable check bit \*



Enable but not to send check bit



Send check bit

### Code 39 Full ASCII

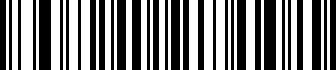
****

Turn on Full ASCII

****

Turn off Full ASCII \*

### Code 39 Length limit setting

****

Code 39 Minimum length limit（0~50 bits）

****

Code 39 Maximum length limit（0~50 bits）

## Code 32 (code39 needs to be turned on)



Enable Code 32



Disable Code 32

## Interleaved 2 of 5（ITF25）



Enable ITF25



Disable ITF25

### Interleaved 2 of 5（ITF25）check bit



Disable check bit \*



Enable but not to send check bit



Send check bit

### Interleaved 2 of 5（ITF25）length selection

****

ITF25 random lengths（6-50 bits）\*

****

ITF25 6 bits length

****

ITF25 8 bits length

****

ITF25 10 bits length

****

ITF25 12 bits length

****

ITF25 14 bits length

****

ITF25 16 bits length

****

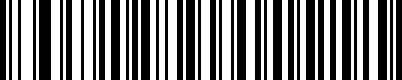
ITF25 18 bits length

****

ITF25 20 bits length

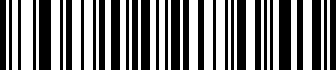
****

ITF25 22 bits length

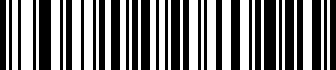
****

ITF25 24 bits length

### Interleaved 2 of 5 Length limit setting

****

Interleaved 2 of 5 Minimum length limit（0~50 bits）

****

Interleaved 2 of 5 Maximum length limit（0~50 bits）

## Industrial 2 of 5（Industrial 2 of 5）

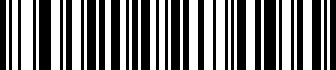


Enable Industrial 2 of 5

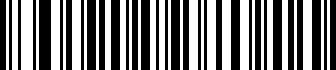


Disable Industrial 2 of 5

### Industrial 2 of 5 Length limit setting

****

Industrial 2 of 5 Minimum length limit（0~50 bits）

****

Industrial 2 of 5 Maximum length limit（0~50 bits）

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

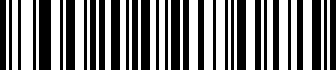


Enable Matrix 2 of 5

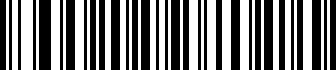


Disable Matrix 2 of 5

### Matrix 2 of 5 Length limit setting

****

Matrix 2 of 5 Minimum length limit（0~50 bits）

****

Matrix 2 of 5 Maximum length limit（0~50 bits）

## Code 93

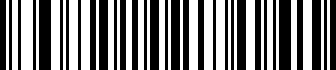


Enable Code 93

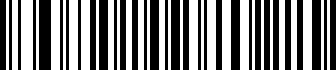


Disable Code 93

### Code 93 Length limit setting

****

Code 93 Minimum length limit（0~50 bits）

****

Code 93 Maximum length limit（0~50 bits）

## Code 11

****

Enable Code 11

****

Diable Code 11 \*

### Code 11 Check bit output

****

Send check bit

****

Not to send check bit \*

### Code 11 check bit selection

****

Disable check bit \*

****

Code 11 1 bit

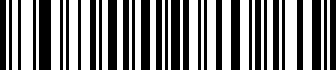
****

Code 11 2 bits

### Code 11 Length limit setting

****

Code 11 Minimum length limit（0~50 bits）

****

Code 11 Maximum length limit（0~50 bits）

## Code 128

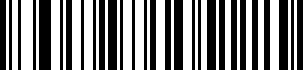


Enable Code 128



Disable Code 128

## ISBT-128



Enable ISBT 128



Disable ISBT 128

## GS1-128

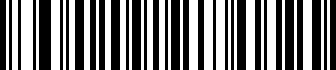


Enable GS1-128

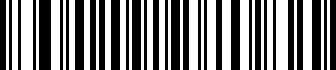


Disable GS1-128

### GS1-128 Length limit setting

****

GS1-128 Minimum length limit（0~50 bits）

****

GS1-128 Maximum length limit（0~50 bits）

## UPC-A



Enable UPC-A



Disable UPC-A

### UPC-A check bit

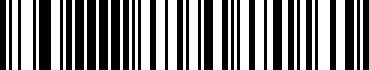


Send check bit \*

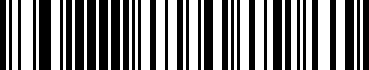


Not to send check bit

### UPC-A convert to EAN-13

****

Enable UPC-A convert to EAN-13

****

Disable UPC-A convert to EAN-13 \*

## UPC-E



Enable UPC-E



Disable UPC-E

### UPC-E check bit



Send check bit \*



Not to send check bit

### UPC-E extend to UPC-A

****

Enable UPC-E extend to UPC-A

****

Disable UPC-E extend to UPC-A \*

## EAN/JAN-8



Enable EAN/JAN-8



Disable EAN/JAN-8

## EAN/JAN-13



Enable EAN/JAN-13



Disable EAN/JAN-13

## UPC/EAN/JAN extracode



Ignore UPC/EAN/JAN extracode \*



Decode UPC/EAN/JAN extracode



Adapt UPC/EAN/JAN extracode

## EAN13 convert to ISBN



Enable EAN13 convert to ISBN code



Disable EAN13 convert to ISBN code \*

## EAN13 convert to ISSN



Enable EAN13 convert to ISSN code



Disable EAN13 convert to ISSN code \*

## GS1 DataBar（RSS14）



Enable GS1 DataBar



Disabel GS1 DataBar

## GS1 DataBar Limited



Enable GS1 DataBar Limited



Disable GS1 DataBar Limited

## GS1 DataBar Expanded

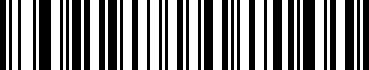


Enable GS1 DataBar Expanded

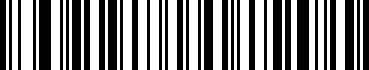


Disable GS1 DataBar Expanded

## MSI code

****

Enable MSI code

****

Disable MSI code

### MSI check bit output

****

Send MSI code check bit

****

Not to send MSI code check bit

### MSI check bit selection

****

1 bit

****

2 bits

### MSI code 2 bits check bit selection

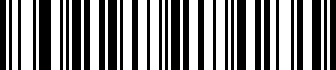
****

MOD10/MOD10

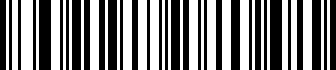
****

MOD10/MOD11

### MSI code length limit setting

****

MSI code minimum length

****

MSI code [Maximum Length](C:/Users/Administrator/AppData/Local/youdao/dict/Application/8.5.3.0/resultui/html/index.html#/javascript:;)

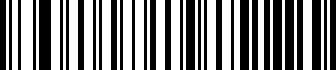
## Febraban（ Brazil bank document barcode）

Note: Please turn off the AIM ID function before enable the Frabraban function.

### Febraban（ITF25）

****

Enable Febraban（ITF25）

****

Disable Febraban（ITF25）（Factory default）

### Febraban（CODE128）

****

Enable Febraban（CODE128）

****

Febraban（CODE128）（Factory default）

### Febraban parity

****

Enable Febraban parity

****

Disable Febraban parity（Factory default）

## PDF417



Enable PDF417



Disable PDF417

## Micro PDF417

****

Enable Micro PDF417

****

Disable Micro PDF417

## QR Code



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

# [Appendix](C:/Users/Administrator/AppData/Local/youdao/dict/Application/8.5.3.0/resultui/html/index.html" \l "/javascript:;)

## Data code



0



1



2



3



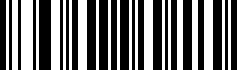
4



5



6



7



8



9



A



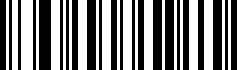
B



C



D



E



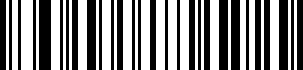
F



Cancel current Settings



Cancel a serials of data you just set



Cancel a data you just set



save

# Bar code type ID table

|  |  |  |
| --- | --- | --- |
| Barcode type | HEX | CODE ID(default) |
| All types | 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 |

# AIM ID table

|  |  |  |
| --- | --- | --- |
| Barcode type | AIM ID | Describe |
| 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 |

# ASCII table

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | [Decimalism](C:/Users/Administrator/AppData/Local/youdao/dict/Application/8.5.3.0/resultui/html/index.html#/javascript:;) |  |  | [Hexadecimal](C:/Users/Administrator/AppData/Local/youdao/dict/Application/8.5.3.0/resultui/html/index.html#/javascript:;) |  |  | [character](C:/Users/Administrator/AppData/Local/youdao/dict/Application/8.5.3.0/resultui/html/index.html#/javascript:;) |  | [Decimalism](C:/Users/Administrator/AppData/Local/youdao/dict/Application/8.5.3.0/resultui/html/index.html#/javascript:;) |  |  | [Hexadecimal](C:/Users/Administrator/AppData/Local/youdao/dict/Application/8.5.3.0/resultui/html/index.html#/javascript:;) |  | [character](C:/Users/Administrator/AppData/Local/youdao/dict/Application/8.5.3.0/resultui/html/index.html#/javascript:;) |  | [Decimalism](C:/Users/Administrator/AppData/Local/youdao/dict/Application/8.5.3.0/resultui/html/index.html#/javascript:;) |  |  | [Hexadecimal](C:/Users/Administrator/AppData/Local/youdao/dict/Application/8.5.3.0/resultui/html/index.html#/javascript:;) |  | [character](C:/Users/Administrator/AppData/Local/youdao/dict/Application/8.5.3.0/resultui/html/index.html#/javascript:;) |
|  | 32 |  |  | 20 |  |  | <SPACE> |  | 64 |  |  | 40 |  | @ |  | 96 |  |  | 60 |  | ` |
|  | 33 |  |  | 21 |  | ! | |  | 65 |  |  | 41 |  | A |  | 97 |  |  | 61 |  | a |
|  | 34 |  |  | 22 |  |  | “ |  | 66 |  |  | 42 |  | B |  | 98 |  |  | 62 |  | b |
|  | 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 |  | \_ |  |  |  |  |  |  |  |

# Control character set (USB keyboard)

|  |  |  |  |
| --- | --- | --- | --- |
| [Decimalism](C:/Users/Administrator/AppData/Local/youdao/dict/Application/8.5.3.0/resultui/html/index.html#/javascript:;) | hexadecimal | Corresponding keyboard value  （Control character escape is turned off） | Corresponding keyboard value  （Control character escape is turned on） |
| 0 | 00 | save | 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 | Arrow ↑ | Ctrl+Q |
| 18 | 12 | Arrow ↓ | Ctrl+R |
| 19 | 13 | Arrow ← | Ctrl+S |
| 20 | 14 | Arrow → | 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+\_ |

# Control character set（serials port and USB-COM）

|  |  |  |
| --- | --- | --- |
| [Decimalism](C:/Users/Administrator/AppData/Local/youdao/dict/Application/8.5.3.0/resultui/html/index.html#/javascript:;) | hexadecimal | Corresponding keyboard value |
| 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 |
| 29 | 1D | GS |
| 30 | 1E | RS |
| 31 | 1F | US |

# Some function configuration instructions and examples

## Custom suffix configuration example

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

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

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

Scan the configuration code custom prefix, the bar code 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 to complete the configuration.

If you need to modify the scanned bar code before saving, you can also scan to cancel the previous data or cancel the previous data and reconfigure. If you need to abandon the configuration midway, scan directly to cancel the current settings.

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

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, and complete the configuration.

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

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

Scan the configuration code to 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 to clear all custom prefixes and clear all custom suffix configuration codes.

## Barcode Length Limit Configuration Example

When configuring the minimum barcode length configuration, you must ensure that the configured minimum length is not greater than the current maximum length configuration, otherwise an error will be prompted. Similarly, when configuring the maximum bar code length, you must 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 configuration code Code 128 minimum length limit, then scan 4 in the appendix data and edit the barcode, save,

Scan the configuration code Code 128 maximum length limit, then scan the appendix data and edit the 1, 2 in the barcode, save, and 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 configuration code Interleaved 2 of 5 minimum length limit, then scan appendix data and edit 1, 4 in barcode, save,

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

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

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

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

## USB keyboard send speed configuration example

f the client PC has weak performance and is prone to transmission error conditions, you need to customize the USB keyboard sending speed to a slower speed, such as 50ms:

Scan the configuration code to customize the sending speed, then scan the appended data and edit the 5,0 in the barcode, save it, and 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

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

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

**The closer the scanning gun is to the barcode, the smaller the aiming beam; the further away the scanning gun is from the barcode, the larger the aiming beam. If the bar code is small, the scanning gun should be close to the bar code; if the bar code is large, the scanning gun should be a little far away from the bar code, so that it is easier to read the bar code correctly.**

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

# Safety

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