

# **STARASIA**

## **StarAsia HCR12D**

**1D/2D Barcode Scanner**



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## Enable/Disable Configuration

Scanner only can be set when configuration function is enabled.



Enable Configuration Function (Default)



Disable Configuration Function

## Version No.



Version Number

## Factory Default Setting



Reset Factory Default Configuration

## User Configuration

Save current parameters as user's configuration.



Save

Reset scanner to user's configuration.



Reset User Configuration

**Data Interface**



USB-KBW (Default)



RS232



USB Virtual Com(\*driver is needed)

**USB Keyboard Layout**

**Control Character Escaping**



Enable Escaping Mode 1



Enable Escaping Mode 2



Disable (Default)

**Other Character Escaping**



Enable



Disable\*

## CR/LF Setting(USB-KBW)



Only 0A(LF) line feed



Only 0D(CR) line feed (Default)



0A(LF) and 0D(CR) both line feed

## USB-KBW Transfer Speed

Set the data transfer speed under USB-KBW interface. If the PC is an old version with lower performance, please choose low transfer speed to ensure the accuracy of data transfer.



Low (Default)



Middle



High



Custom Transfer Speed (2ms~50ms)

## Convert Case



Original data (Default)



Case Inversion



All Convert to Upper Case



All Convert to Lower case

## Keyboard Layouts



English (United States) (Default)



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)



Turkish Q



Turkish F



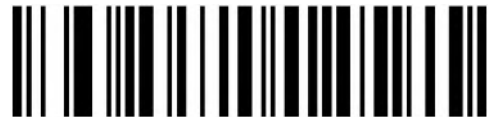
Greek (MS)



French (Belgium)



English (UK)



Hungarian



Hungarian 101-KEY



Vietnamese



Slovak

## Virtual Keyboard

Mode 1: Disable output characters between 0x20 to 0xFF by virtual keyboard.

Enable output characters between 0x00~0x1F by control characters definition(refer to Appendix).

Model 2: Enable output characters between 0x20 to 0xFF by virtual keyboard.  
Enable output characters between 0x00~0x1F by control characters definition(refer to Appendix).

Model 3: Enable output characters between 0x00~0xFF by virtual keyboard



Turn Off (Default)



Turn On (Mode 1)



Turn On (Mode 2)



Turn On (Mode 3)

## Select Host System In Virtual Keyboard Mode



WINDOWS (Default)



MAC OS



LINUX

## Barcode Encoding Configuration

Generally, the barcodes encoding can be identified accurately.

Please set suitable encoding configuration if there have unique characters, to ensure correct data output.



Auto (Default)



KOI8-R code



Japanese Shift-JIS



Chinese(traditional) big5

## Output Encoding Format

To output data under specified encoding format, the corresponding mode needs to be set.



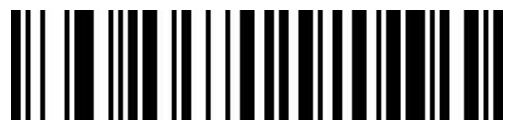
English/Latin-1(Default)



GBK(Notepad/excel)



UNICODE(Word)



Japanese Shift-JIS(Notepad/excel)



UTF-8



Chinese(traditional) big5(Notepad/excel)

## RS232 Interface Configuration

### Baud Rate



4800



9600 (Default)



19200



38400



57600



115200

## Data Bit, Stop Bit, Parity Bit



7 Bit, 1 Stop Bit, No Parity



7 Bit, 1 Stop Bit, Even Parity



7 Bit, 1 Stop Bit, Odd Parity



7 Bit, 2 Stop Bit, No Parity



7 Bit, 2 Stop Bit, Even Parity



7 Bit, 2 Stop Bit, Odd Parity



8 Bit, 1 Stop Bit, No Parity(Default)



8 Bit, 1 Stop Bit, Even Parity



8 Bit, 1 Stop Bit, Odd Parity



8 Bit, 2 stop Bit, No Parity



8 Bit, 2 Stop Bit, Even Parity



8 Bit, 2 Stop Bit, Odd Parity

## GS Control Character Replacement



Do Not Replace (Default)

Please set 'Virtual keyboard (Mode 1 or Mode 1 or Mode 3)' if output character is 'Ç'



Replace Ç



Replace |



Replace ^]



Replace ]



Replace <GS>

## GS1 AI Output Format



Disable(Default)



Output Format 1



Output Format 2

## Control Characters Output



Disable Output



Enable Output

## Scan Mode

### Auto Sense Mode off



Off (Default)

### Auto Sense Mode on



On

## Repeat Barcode Detection

Setting for the interval time of decoding the same barcode, scanner will only decode the same barcode one time if not exceeding the set time.



500ms



750ms (Default)



1s



2s

## Center Mode

Scanner only reads the barcode in the center area of the scan window if enabling center mode.

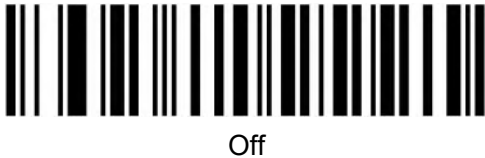


Enable



Disable(Default)

**LED Indicator Light**



**Buzzer Configuration**

**Volume Setting**



**Start Sound Setting**



**Decode Success Sound Setting**





On (Default)

## Decode Success Tone Setting



Tone 1 (Default)



Tone 2



3



Custom

## Decode Success Sound Duration Setting



Long(Default)



Short

## Error Warning Tone Setting

Scanner will make four consecutive error warning sounds if data transmission failed, and a single error warning sound if the unrecognizable configuration code is scanned.



Low (Default)



Middle



High

## Prefix and Suffix Configuration

### Start Character



None (Default)



STX

### Terminal Character



None



Enter



LF



CR/LF (Default)



TAB



ETX

## Custom Prefix

### Output Options



Enable



Disable(Default)

### Edit



Clear All Custom Prefix



Set Custom Prefix

(Please refer to the appendix Code ID and ASCII table for setting)

## Custom Suffix

## Output Options



On



Off (Default)

## Edit



Clear All Custom Suffix



Set Custom Suffix

(Please refer to the appendix Code ID and ASCII table for setting)

## Code ID

### Output Options



Disable(Default)



Enable Code ID In Front Of Barcode



Enable Code ID Behind Of Barcode

## Edit



Set Custom Code ID

(Please refer to appendix ID type table, data and edit barcode)



Clear All Custom Code ID

## AIM ID



Disable(Default)



Enable AIM ID In Front Of Barcode



Enable AIM ID Behind Of Barcode

## Prefix And Suffix Order Setting

### Prefix



Start Character+CODE ID+AIM ID+Custom Prefix (Default)



Start Character+Custom Prefix+CODE ID+AIM ID

## Suffix



Custom Suffix+CODE ID+AIM ID+Terminal Character (Default)



CODE ID+AIM ID+Custom Suffix+Terminal Character

## Data Edition

The data edition function can customize the barcode data to three fields(Start/Center/End) by configuring the Start/End field length.

Note: Custom prefix/suffix, start characters, end characters, CODE ID, AIM ID and other non-barcode contents will not be affected by the data edition function.

## Field Length Configuration



Set Start Field Length



Set End Field Length

## Transfer Configuration



Transfer The Full Data Field



Only Transfer The Start Field



Only Transfer The Center Field



Only Transfer The End Field

## Inverse Color Barcode Setting

(Only 1D/DataMatrix/Aztec)



Normal Color



Inverse Color



Both (Normal/Inverse)

## Non-standard Barcode Option

When non-standard barcode decoding enabled, scanner can be better compatible with some non-standard barcodes, but the probability of reading errors will increase.



Disable(Default)



Enable

## Barcode Type Selection

### Enable/Disable All Barcodes



Enable All



Disable All

### Enable/Disable All 1D Barcodes



Enable All



Disable All

### Enable/Disable All 2D Barcodes



Enable All



Disable All

### Codabar



Enable



Disable

## Codabar Start/End Character Transfer



Disable(Default)



Enable

## Set Length Range For Codabar



Minimum Length(0~50bits)



Maximum Length(0~50bits)

## Code 39



Enable



Disable

## Code 39 Check Bit



Disable(Default)



Enable But Not Transfer



Enable & Transfer

### Code 39 Full ASCII



Enable



Disable(Default)

### Code39 Start/End Character Transfer



Enable



Disable(Default)

### Set Length Range For Code 39



Minimum Length(0~50bits)



Maximum(0~50bits)

### Code 32(Enable Code39 First)



Enable



Disable

### Code 32 Prefix



Enable



Disable

### Interleaved 2 of 5 (ITF25)



Enable



Disable

### Interleaved 2 of 5 (ITF25) Check Bit



Disable(Default)



Enable But Not Transfer



Enable & Transfer

## Interleaved 2 of 5 (ITF25) Length Setting



Random Length(6-50bits) (Default)



6 Bits



8 Bits



10 Bits



12 Bits



14 Bits



16 Bits



18 Bits



20 Bits



22 Bits



24 Bits

### Set Length Range for Interleaved 2 of 5



Minimum(0~50bits)



Maximum(0~50bits)

### Industrial 2 of 5



Enable



Disable

### Set Length Range for Industrial 2 of 5



Minimum(0~50bits)



Maximum(0~50bits)

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



Enable



Disable

### Set Length Range for Matrix 2 of 5



Minimum(0~50bits)



Maximum(0~50bits)

### Code 93



Enable



Disable

### Set Length Range for Code 93



Minimum(0~50bits)



Maximum(0~50bits)

## Code 11



Enable



Disable(Default)

## Code 11 Check Bit Output



Enable



Disable(Default)

## Code 11 Check Bit Setting



Disable(Default)



1 Bit



2 Bits

**Set Length Range for Code 11**



Minimum(0~50bits)



Maximum(0~50bits)

**Code 128**



Enable



Disable

**Code 128 Leading 0 Setting**



Send Leading 0



Not Send Leading 0

**GS1-128**



Enable



Disable

**ISBT**



Enable



Disable

**Set Length Range for Code 128**



Minimum (0~50bits)



Maximum (0~50bits)

**UPC-A**



Enable



Disable

**UPC-A Check Bit Output**



Enable(Default)



Disable

## UPC-A Leading Characters



UPC-A convert to EAN-13(Output Country Code+System Characters)



Output System Characters(Default)



Disable

## UPC-E



Enable(Default)



Disable

## UPC-E Check Bit Output



Enable(Default)



Disable

**UPC-E Expand to UPC-A**



Enable



Disable (Default)

**UPC-E Leading Characters**



Output Country Code+System Characters



Output System Characters(Default)



Disable

**EAN/JAN-8**



Enable



Disable

**EAN-8 Convert to EAN-13**



Disable(Default)



Enable

## EAN-8 Check Bit Output



Enable(Default)



Disable

## EAN/JAN-13

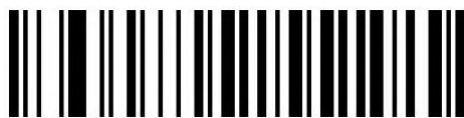


Enable



Disable

## EAN 13 Check Bit Output



Enable(Default)



Disable

## UPC/EAN/JAN Additional Code



Disable(Default)



Only Read UPC/EAN/JAN Additional Code



Both Read UPC/EAN/JAN and UPC/EAN/JAN Additional Code

## EAN13 Convert to ISBN



Enable



Disable(Default)

## EAN13 Convert to ISSN



Enable



Disable(Default)

## GS1 DataBar (RSS14)



Enable(Default)



Disable

## GS1 DataBar Limited



Enable(Default)



Disable

## GS1 DataBar Expanded



Enable(Default)



Disable

## PDF417



Enable(Default)



Disable

## Set Length Range for PDF417



Minimum



Maximum

## Micro PDF417



Enable(Default)



Disable

## Set Length Range for Micro PDF417



Minimum



Maximum

## QR Code



Enable(Default)



Disable

## QR Code URL Link



Disable



Enable(Default)

## Set Length Range for QR Code



Minimum



Maximum

## Micro QR



Enable(Default)



Disable

## Set Length Range for Micro QR



Minimum



Maximum

## Data Matrix



Enable(Default)



Disable

## Set Length Range for Data Matrix



Minimum



Maximum

## Aztec Code



Enable(Default)



Disable

**Set Length Range for Aztec Code**



Minimum



Maximum

**Hanxin Code**



Enable



Disable(Default)

**Set Length Range for Hanxin Code**



Minimum(1-7833)



Maximum(1-7833)

**Appendix**

**Data and Edit Barcode**



0



1



2



3



4



5



6



7



8



9



A



B



C



D



E



F



Cancel Current Setting



Cancel The String Data of Previous Reading



Cancel The Data of Previous Reading



Save

## Barcode Type ID Table

| Code Type            | HEX | CODE |
|----------------------|-----|------|
| All codes            | 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          | 52  | R    |
| 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/IATA | 44  | D    |
| UPC-A                | 63  | c    |
| UPC-E                | 63  | c    |
| ISBN                 | 42  | B    |
| ISSN                 | 6E  | n    |
| MSI                  | 6D  | m    |
| 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

| Code Type               | AIM ID | Description         |
|-------------------------|--------|---------------------|
| 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 Table

| Decimal | Hexadectimal | Character | Decimal | Hexadectimal | Character |
|---------|--------------|-----------|---------|--------------|-----------|
| 32      | 20           | <SPACE>   | 80      | 50           | P         |
| 33      | 21           | !         | 81      | 51           | Q         |
| 34      | 22           | "         | 82      | 52           | R         |
| 35      | 23           | #         | 83      | 53           | S         |
| 36      | 24           | \$        | 84      | 54           | T         |
| 37      | 25           | %         | 85      | 55           | U         |
| 38      | 26           | &         | 86      | 56           | V         |
| 39      | 27           | '         | 87      | 57           | W         |
| 40      | 28           | (         | 88      | 58           | X         |
| 41      | 29           | )         | 89      | 59           | Y         |
| 42      | 2A           | *         | 90      | 5A           | Z         |
| 43      | 2B           | +         | 91      | 5B           | [         |
| 44      | 2C           | ,         | 92      | 5C           | \         |
| 45      | 2D           | -         | 93      | 5D           | ]         |
| 46      | 2E           | .         | 94      | 5E           | ^         |
| 47      | 2F           | /         | 95      | 5F           | _         |

|    |    |   |     |    |   |
|----|----|---|-----|----|---|
| 48 | 30 | 0 | 96  | 60 | ` |
| 49 | 31 | 1 | 97  | 61 | a |
| 50 | 32 | 2 | 98  | 62 | b |
| 51 | 33 | 3 | 99  | 63 | c |
| 52 | 34 | 4 | 100 | 64 | d |
| 53 | 35 | 5 | 101 | 65 | e |
| 54 | 36 | 6 | 102 | 66 | f |
| 55 | 37 | 7 | 103 | 67 | g |
| 56 | 38 | 8 | 104 | 68 | h |
| 57 | 39 | 9 | 105 | 69 | i |
| 58 | 3A | : | 106 | 6A | j |
| 59 | 3B | ; | 107 | 6B | k |
| 60 | 3C | < | 108 | 6C | l |
| 61 | 3D | = | 109 | 6D | m |
| 62 | 3E | > | 110 | 6E | n |
| 63 | 3F | ? | 111 | 6F | o |
| 64 | 40 | @ | 112 | 70 | p |
| 65 | 41 | A | 113 | 71 | q |
| 66 | 42 | B | 114 | 72 | r |
| 67 | 43 | C | 115 | 73 | s |
| 68 | 44 | D | 116 | 74 | t |
| 69 | 45 | E | 117 | 75 | u |
| 70 | 46 | F | 118 | 76 | v |
| 71 | 47 | G | 119 | 77 | w |
| 72 | 48 | H | 120 | 78 | x |
| 73 | 49 | I | 121 | 79 | y |
| 74 | 4A | J | 122 | 7A | z |
| 75 | 4B | K | 123 | 7B | { |
| 76 | 4C | L | 124 | 7C |   |
| 77 | 4D | M | 125 | 7D | } |
| 78 | 4E | N | 126 | 7E | ~ |
| 79 | 4F | O |     |    |   |

## Control Character Setting (USB-KBW)

| Decimal | Hexadecimal | Key Value (disable<br>CODE ID escaping) | Key Value (enable<br>CODE ID escaping) |
|---------|-------------|-----------------------------------------|----------------------------------------|
| 0       | 00          | reserve                                 | Ctrl+@                                 |
| 1       | 01          | Insert                                  | Ctrl+A                                 |
| 2       | 02          | Home                                    | Ctrl+B                                 |
| 3       | 03          | End                                     | Ctrl+C                                 |
| 4       | 04          | Delete                                  | Ctrl+D                                 |
| 5       | 05          | Page Up                                 | Ctrl+E                                 |

|    |    |                                                           |        |
|----|----|-----------------------------------------------------------|--------|
| 6  | 06 | Page Down                                                 | Ctrl+F |
| 7  | 07 | ESC                                                       | Ctrl+G |
| 8  | 08 | Backspace                                                 | Ctrl+H |
| 9  | 09 | Tab                                                       | Ctrl+I |
| 10 | 0A | Enter(Output is influenced by the configuration of CR/LF) | Ctrl+J |
| 11 | 0B | Caps Lock                                                 | Ctrl+K |
| 12 | 0C | Print Screen                                              | Ctrl+L |
| 13 | 0D | Enter(Output is influenced by the configuration of CR/LF) | 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+_ |

## Control Character Set (RS232,USB,VCP)

| Decimal | Hexadecimal | 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  |
| 29 | 1D | GS  |
| 30 | 1E | RS  |
| 31 | 1F | US  |

## Other Characters Escaping (USB-KBW)

| Decimal | Hexadecimal | Character |
|---------|-------------|-----------|
| 129     | 81          | F13       |
| 130     | 82          | F14       |
| 131     | 83          | F15       |
| 132     | 84          | F16       |
| 133     | 85          | F17       |
| 134     | 86          | F18       |
| 135     | 87          | F19       |
| 136     | 88          | F20       |
| 137     | 89          | F21       |
| 138     | 8A          | F22       |
| 139     | 8B          | F23       |
| 140     | 8C          | F24       |

## Examples For Setting

### Examples for Custom Prefix and Suffix:

The max number of characters for prefix/suffix are 10 characters. (In order to make sure the prefix and suffix to be output normally, please enable custom prefix or suffix first)

#### Example 1.1:

Set 'XYZ' as prefix for all codes

Before setting, please search HEX value for all codes and it's '99' (Appendix: Barcode Type ID Table); 'X', 'Y', 'Z' HEX value is '58', '59' and '5A' (Appendix: Visible Character ASCII Table)

Steps: Set 'Custom Prefix'; Set '9', '9', '5', '8', '5', '9', '5', 'A', 'Save'(Appendix: Data Edit And Setting Parameter Barcodes).

If you need to revise the scanned data before save, please scan 'Cancel the data of previous setting' or 'Cancel the string data of previous setting' to reset.

If you need to give up setting, please scan 'Cancel current setting'.

#### Example 1.2:

Set "R" as prefix for QR

Before setting, please search HEX value for QR code and it's '51'(Appendix: Barcode Type ID Table); 'R' HEX value is '52' (Appendix: Visible Character ASCII Table)

Steps: Set 'custom prefix'; Set '5', '1', '5', '2', 'Save'(Appendix: Data edit and setting parameter barcodes).

#### Example 1.3:

Cancel Custom prefix for QR code

Steps: Set 'Custom prefix', Set '5', '1', 'Save'.

Note: If setting prefix for all QR codes, it will cover prefix settings for all QR codes prefix.

In contrast, if you need to cancel all prefix/suffix for all barcodes, please set 'Clear all custom prefix' and 'Clear all custom suffix'.

#### Example 1.4:

Set 'F13' as prefix for all codes

Before setting, please search HEX value for all codes and it's '99' (Appendix: Barcode Type ID Table); 'F13' HEX value is '81'(Appendix: Other Character Escaping)

Steps: Set 'Enable Other Character Escaping' 'Custom prefix-Enable', 'Set custom prefix', Set '9', '9', '8', '1', 'Save' (Appendix: Data Edit And Setting Parameter Barcodes).

## Examples for Barcode Reading Length Setting

When setting the minimum reading length of a barcode, you need to ensure that the minimum length you set is not longer than the current maximum length setting, otherwise an error will be prompted. Similarly, when setting the maximum reading length of a barcode, you need to ensure that the maximum length you set is not less than the current minimum length setting.

Ex1: Set the reading length of Code128 as 4-12 characters

"Minimum length(0~50bits)"-----Set Reading Length Range For Code 128

"4"-----Data Edit And Setting Parameter Barcodes

"Save"-----Data Edit And Setting Parameter Barcodes

"Maximum length(0~50bits)"-----Set Reading Length Range For Code 128

"1"-----Data Edit And Setting Parameter Barcodes

"2"-----Data Edit And Setting Parameter Barcodes

"Save"-----Data Edit And Setting Parameter Barcodes

## Example for USB-KBW Transfer Speed Configuration

If the PC is an old version with lower performance, please choose low transfer speed to ensure the accuracy of data transfer, such as: 50ms

Steps: Set 'Custom transfer speed', Set '5', '0', Set 'Save'.

## Warning Sound

The scanner will make continuous 4 times error warning sound when data transferring is abnormal. Please check if the cable connection is normal.

## Read Skills

To get a good reading performance, the aiming light needs to be aimed at the centre of barcode, and it can be aimed in any directions for convenient reading.

To read barcode correctly, if barcode is small, the scan window of the scanner need to be closed to the barcode, if barcode is big, the scan window of the scanner need to be far away from the barcode.

If the barcode is highly reflective(for example: coated surface), please adjust the scanning angle to read it successfully.



## **Safety**

Please don't use aiming light of the scanner to aim at eyes directly, to avoid causing any hurt or unwell feelings.

For further support, please contact us at <https://www.StarAsia.com>