



# **E800 User Manual**

*Release v1.0.0*

**2026-06-27**

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# 1 System Settings

## 1.1 Read firmware version



Read firmware version

## 1.2 Restore Factory Defaults

### Note

If Write Custom Defaults has been performed, Restore Defaults restores those custom defaults; otherwise it restores factory defaults.

### Important

Set Factory Defaults clears all custom defaults and restores factory defaults.



Restore custom defaults



Write custom default values



Set factory defaults

## 1.3 working mode

### Note

During the data upload process, if you scan the “data upload” command again, the current upload will be canceled or stopped.

**Note**

In wireless transmission mode, if automatic storage is turned on, barcodes that fail to be transmitted will be automatically saved, and the stored data can be read through “data upload” .



\* Normal mode



storage mode



Upload storage data



Read the total number of stored barcodes



Clear storage data after uploading



Read storage space usage



Clear stored barcode



\* Autosave mode off



Automatic storage mode is on

## 2 Power management

### 2.1 Read sleep time



Read sleep time

### 2.2 Set sleep time



Hibernate now



Sleep after 1 minute



Sleep after 3 minutes (default)



Sleep after 5 minutes



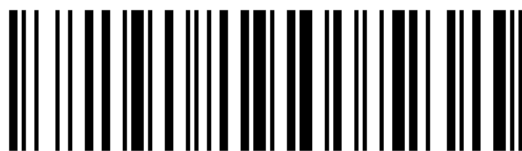
Sleep after 10 minutes



Sleep after 30 minutes



Sleep after 1 hour



Sleep after 2 hours



never sleep

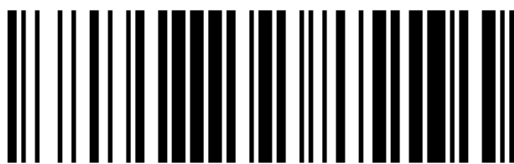
## 2.3 Get scanner battery level



Get battery level

## 3 Feedback Indicators

### 3.1 Buzzer control



mute



\* high volume



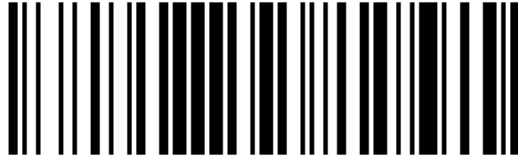
medium volume



low volume



\* high pitch



low pitch



\* SDK voice response off



SDK voice response enabled



Base connection buzzer prompt switch

## 3.2 Vibration motor control

### Note

The vibration motor works with a beep prompt, not all models support this feature.



Disable



Enable

### 3.3 Buzzer sound definition

| Type        | Sound                           | Description                                               | Audio file                        |
|-------------|---------------------------------|-----------------------------------------------------------|-----------------------------------|
| Beep        | Single tone (2 pitches)         | Storage mode decode; power-off prompt.                    | storage-mode.m4a, shutdown.m4a    |
| Beep        | Single tone (3 pitches)         | Power-on prompt; setting saved; upload complete.          | startup.m4a, wireless-setting.m4a |
| Beep        | Short single tone               | Successful decode.                                        | one-beeps.m4a                     |
| Beep        | 30-second continuous short tone | 2.4G pairing waits for the receiver; stops after pairing. | pair2.4G.m4a                      |
| Alarm sound | Two tones (same pitch)          | Low-battery alarm during decoding.                        | two-beeps.m4a                     |
| Alarm sound | Three tones (same pitch)        | Inventory storage error or capacity exceeded.             | three-beeps.m4a                   |
| Alarm sound | Transmission failure            | Alarm when barcode transmission fails.                    | No audio available                |
| Alarm sound | Five tones (same pitch)         | Boot failure caused by low battery.                       | five-beeps.m4a                    |

### 3.4 Indicator definition

| Indicator               | Status                                                                                                                                                                                              |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| red light / green light | When charging, the red light is on and the green light is off; when fully charged, the red light is off and the green light is on.                                                                  |
| blue light              | Following the buzzer action, the buzzer lights up when it sounds and goes out when it does not sound; models that support Bluetooth mode are also used to indicate the Bluetooth connection status. |

## 4 wired mode

#### Note

Only applicable to scanners that support wired transmission.

### 4.1 USB transfer method



\* USB keyboard mode



USB virtual serial port mode

**Note**

After the automatic interface selection is turned on, the device will automatically switch between wired and wireless; when plugging in the USB cable, the wired mode will be used first. When the USB cable is not plugged in or USB is unavailable, the scanner works in 2.4G mode. Some models may not support this feature.



\* Wired/wireless automatic selection turns on



Wired/wireless automatic selection off

## 4.2 USB keyboard transfer speed

**Note**

This setting also affects the speed of RF and Bluetooth transmission of very long barcodes and stored data uploads.



\* top speed



top speed



medium speed



medium speed



Read keyboard speed



Read keyboard speed

### 4.3 USB HID multi-key send settings

#### Note

The settings in this section are only applicable to Windows systems.



USB HID multi-key sending enabled



\* USB HID multi-key sending off

## 5 wireless mode

### Note

Only suitable for scanners that support 2.4G transmission.

### 5.1 Read Interface Settings



Current Interface Settings

### 5.2 Wireless transmission method

### Note

The blue light is always on or flashing to indicate that it is currently in Bluetooth mode; the blue light is off to indicate that it is currently in 2.4G mode or USB wired mode.



2.4G transmission mode

### 5.3 2.4G pairing

### Important

Only valid in wireless 2.4G mode.



Start 2.4G pairing



one-to-one pairing



One-to-one pairing

## 5.4 Receiver working mode

### Note

Composite device mode is only available on receivers running FWVerL or later. You can also use `ReceiverAddress.exe` to generate a pairing barcode and complete pairing by scanning it.



Receiver as composite device



Receiver as virtual serial port

### Note

This mode requires the virtual serial port driver to be installed.



receiver as keyboard

## Receiver keyboard transmission speed

### Note

The instructions in this section are only applicable to receivers of FWVerL and above. The transmission speeds of the scanner and receiver must match, otherwise errors may occur when transmitting long barcodes.

### Important

This command is only valid in wireless 2.4G mode and the receiver is connected normally.



Read keyboard speed

### Example

KB SP=2, 4 represents a USB keyboard speed of 2ms and a receiver keyboard speed of 4ms.



receiver keyboard high speed



Receiver Keyboard Medium Speed



Receiver Keyboard Low Speed

### Note

It is only valid in wireless 2.4G mode and the receiving end receives normally.

## 5.5 2.4G transmission cache

### **Note**

This command is only available on some scanners that support this feature. After scanning the setup code, two short beeps indicate disabled, and one three-tone beep indicates enabled.

When scanning ordinary barcodes, if the amount of barcode data is large and the scanning interval is short, and the data is not uploaded in time, you can use this setting barcode to turn on or off data caching.



SRAM cache switch

In normal mode, after data caching is turned on, if the device briefly leaves the communication distance and enters offline state, you can use this setting to choose to wait for connection before uploading the cached data, or to clear the cached data.



Offline caching switch

## 6 Bluetooth Mode

### **Note**

Only suitable for RF+BT scanners with Bluetooth function.

### 6.1 Read Interface Settings



Current Interface Settings

### 6.2 Bluetooth Transmission Mode

**Note**

The blue light is always on or flashing to indicate that it is currently in Bluetooth mode; the blue light is off to indicate that it is currently in 2.4G mode or USB wired mode.



Bluetooth Transmission

## 6.3 Bluetooth Operating Mode

**Note**

Valid only in Bluetooth mode.

**Note**

Before switching the Bluetooth working mode, you need to clear the pairing information between the host device and the scanner.



Bluetooth HID Keyboard (Default)



Bluetooth SPP Serial Port



Bluetooth BLE Serial Port



Bluetooth cradle transmission mode

#### Note

It is suitable for pairing with a Bluetooth cradle that has already been paired. When the barcode on the base is damaged, you can also use the gadget BluetoothAddress.exe to generate a pairing barcode.

## 6.4 Change Bluetooth Name

After entering the new Bluetooth name, scan the generated QR code to complete the setup. If the host has saved old pairing records after modification, please delete the old pairing first and search for connection again.

## 6.5 Clear Bluetooth HID Pairing

After scanning “Clear Pairing” in Bluetooth transmission mode, the scanner will disconnect the currently paired device and clear the pairing list, then wait for new devices to be paired. Historically paired devices need to be deleted and paired again.



Clear Bluetooth Pairing

## 6.6 System Keyboard Functions

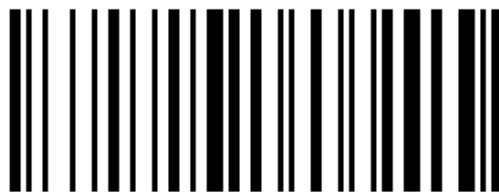
### iOS system pop-up keyboard function



iOS pop up/hide keyboard



Press and hold the trigger for 4 seconds to toggle the iOS on-screen keyboard



Double-press the trigger to toggle the iOS on-screen keyboard



Pop up iOS keyboard switch after sending

## Windows Caps Lock detection

### Note

This command is only available on some Bluetooth scanners. After scanning the setup code, two short beeps indicate disabled, and one three-tone beep indicates enabled.



Windows Caps Lock detection switch

## 6.7 Switch between Bluetooth and 2.4G by pressing and holding for 8 seconds

### Note

This command is only available on some RF+BT scanners (DS, C, RT). When enabled, press and hold the trigger for more than 8 seconds and release it to switch between RF and BT. If you hold it for more than 16 seconds, the scanner powers off and the mode does not switch. After scanning the setup code, two short beeps indicate disabled, and one three-tone beep indicates enabled.



Press and hold the trigger for 8 seconds to toggle RF/BT switching

## 6.8 Bluetooth keyboard transmission speed

### Note

Valid only in Bluetooth mode.



Read Bluetooth HID delay



High speed (2 ms)



High speed (6 ms)



\* Medium speed (10 ms)



Medium speed (18 ms)



Low speed (25 ms)



Low speed (30 ms)

## 6.9 Bluetooth connection status non-sleep setting

### **Note**

After scanning the setup code, two short beeps indicate disabled, and one three-tone beep indicates enabled.



Bluetooth connection status non-sleep switch

## 7 Keyboard Settings

### 7.1 HID Keyboard General Setting

HID common settings

### **Note**

The general HID mode settings in this section are applicable to USB keyboard, RF2.4G keyboard, and BT HID keyboard.

#### Ctrl key combination settings



\\* Combine-Key Off



Ctrl+ Key Config1



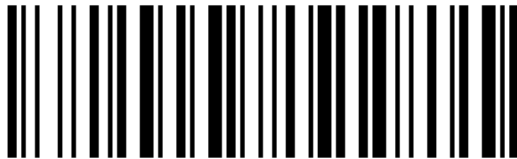
Alt+ Key Config2



Normal-Key Config3



Ctrl+ Key Config4



Alt+ Key Config5

**Note**

only for ASCII <0x20 chars, Alt+ key only for Windows system.

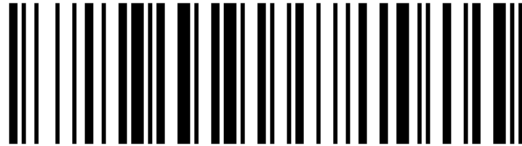
## Case settings



normal



Swap case



all caps



all lowercase

\*When set to ALT, TH keyboard language, the case setting does not apply.

### Num Lock Settings



Num Lock Settings



Num Lock on

\*When the receiving device is a mobile phone, you need to keep the Num Lock off setting, otherwise the numbers will not be displayed.

### Enter character set settings

#### Note

Applicable only to certain mod's of 2D scanners, this setting matches the 2D module's output character set.



Read the current character set settings



automatic



GBK / BIG5 / HANGUL / SJIS



ISO/IEC 8859



UTF8 (Word)



UTF8 (Txt)



Normal mode

illustrate:

| model        | Applicable scenarios                                                                                                        | Code scan engine<br>output character set | limit                                                   |
|--------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------------------------------------------------------|
| Auto         | Automatically select the input character set as UTF8 or ISO/IEC 8859; Word or Txt output is based on the last UTF8 setting. | primitive type                           | none                                                    |
| GBK          | Windows Notepad, Excel Chinese input.                                                                                       | GBK (GB2312) or original type            | Applies to Windows systems only.                        |
| UTF8 (Word)  | Word, QQ Chinese input.                                                                                                     | UTF8 or primitive type                   | Applies to Windows systems only.                        |
| ISO/IEC 8859 | European single-byte special characters ( $\geq C0H$ ), applicable to FR, GE, TR, PT, ES, CS, IT, UK, HU, SK.               | primitive type                           | Languages not listed need to be added by customization. |
| UTF8 (Txt)   | To input special characters in Windows Notepad, you need to install the Unicode plug-in.                                    | UTF8 or primitive type                   | Applies to Windows systems only.                        |
| Normal       | Multi-language special characters, suitable for characters on FR, GE, TR, PT, ES, CS, IT, UK, HU, SK keyboards.             | UTF8 or primitive type                   | Languages not listed need to be added by customization. |

## Receiving device selection

**Note**

This section is used to set the way different receiving devices input ASCII characters (0x20 to 0x7F) and needs to be used in conjunction with [Keyboard Language Settings](#).



Read the current receiving device settings



Windows device



iPhone/iPad/Mac devices



Android device

\*IOS/MAC devices are currently valid: FR, DE, TR, PT, ES, CS, IT, UK, HU, SK. Please refer to the document “MAC iphone ipad keyboard layout for barcode scanner.docx”

\*It is recommended to install Google Gboard input method uniformly on Android devices. Please refer to the document “Android device keyboard layout for barcode scanner.docx”

## 7.2 Keyboard language settings

**See also**

Keyboard language settings have been split into a separate page: [Keyboard Language Settings](#).

## 8 Keyboard Language

### 8.1 Read the current keyboard layout



Read the current keyboard layout

**L1 \*ENUSA EN key**



\* US English keyboard

**L2 FR France French key**



French French keyboard

**L3 DE Germany key**



german german keyboard

**L4 IT Italy Italy key**



Italian keyboard

**L5 PT Portugal Portugal key**



Portuguese keyboard

**L6 ES Spain Spain key**



spanish keyboard

**L7 TR Turkey Turkey key**



Turkish Q keyboard



Turkish F keyboard

**L8 ENUK UK key**



British English keyboard

**L9 CS Czech Czech key**



Czech keyboard



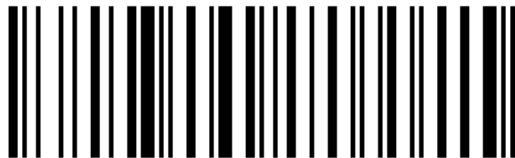
Czech standard keyboard

**L10 HU Hungary Hungary key**



Hungarian keyboard

**L11 FR Belgium (French) Belgium FR Key**



Belgian French keyboard

**L12 PT Brazil (Portuguese) Brazil PT Key**



Brazilian Portuguese keyboard

**L13 FR Canadian French (Traditional) Canadian FR Key**



Canadian French (traditional) keyboard

**L14 HRCroatia Key**



Croatian keyboard

**L15 SK Slovak Key**



Slovak QWERTY keyboard



Slovak keyboard

**L16 DA Denmark Denmark Key**



Danish keyboard

**L17 FI Finland Key**



Finnish keyboard

**L18 ES Latin America (Spanish) Latin-America ES Key**



Latin American Spanish keyboard

**L19 NL Netherlands Netherlands Key**



Dutch keyboard

**L20 NO Norway Norway Key**



Norwegian keyboard

**L21 PL Poland Poland Key**



Polish keyboard

**L22 SR Serbia (Latin) Serbia Key**



Serbian Latin keyboard

**L23 SL Slovenia Key**



Slovenian keyboard

**L24 SV Sweden Sweden Key**



Swedish keyboard

#### L25 DE Switzerland (German) Swiss DE Key



Swiss German keyboard

#### L26 JP Japanese Japanese Key



Japanese keyboard

#### L27 TH Thai Thailand Key

##### Note

When using a Thai keyboard, the code scan engine also needs to be set to TH output.



Thai keyboard

##### See also

Reference file: RF2.4G, Bluetooth Settings\_Chinese, Thai, Korean.docx.

#### L28 ALT International Keyboard ALT Global Key

##### Note

The ALT international keyboard layout is only available on Windows systems. It is not affected by the host keyboard layout, but it reduces transmission speed.



ALT international keyboard

## L29 ALT Single Byte Special Keyboard ALT Single Byte Special Key



ALT single-byte special character keyboard

### Note

Languages not listed in this section need to be customized to be supported.

## 9 Data Editing

### 9.1 Standard Data Editing Settings

This section describes how to configure common output rules such as prefixes, suffixes, and hidden characters by scanning setup codes.

#### Prefix/Suffix and Hidden Character Settings

You can add up to 10 prefixes and/or 10 suffixes to the output data. To configure them, scan the two-digit hexadecimal numeric setup codes that correspond to the required ASCII value (that is, two barcodes per character).

#### See also

For character values, please refer to *ASCII Function Key Character Reference Table* and *ASCII Character Reference Table*; for parameters that require input of numerical values, please scan *Numeric Setup Codes*; for specific procedures, see *Add a Prefix or Suffix*.

Can be set to hide the first, middle or last characters of the barcode. After scanning the corresponding hidden setting barcode, scan the two-digit hexadecimal setting barcode corresponding to the length of the characters to be hidden (00~FF, for example, scan 0 and 4 in sequence when hiding 4 characters).

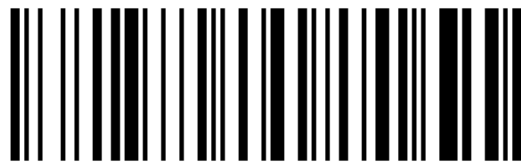
#### See also

See *Steps to Hide the First/Middle/Tail Characters of a Barcode* for the hidden character process.

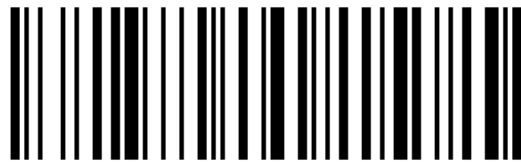
Operation Code



Add Prefix



Add Suffix



Clear all prefixes



Clear all suffixes



Hide Leading Characters



Hide Middle Section Start Position



Hide Middle Section Length



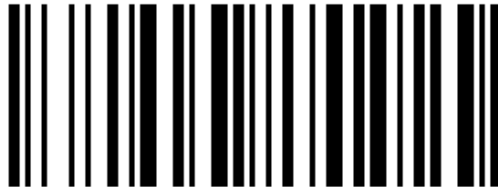
Hide Trailing Characters

## Numeric Setup Codes

For parameters that require a numeric value, scan the corresponding numeric setup codes.



Numeric Setup Code 0



Numeric Setup Code 1



Numeric Setup Code 2



Numeric Setup Code 3



Numeric Setup Code 4



Numeric Setup Code 5



Numeric Setup Code 6



Numeric Setup Code 7



Numeric Setup Code 8



Numeric Setup Code 9



Numeric Setup Code A



Numeric Setup Code B



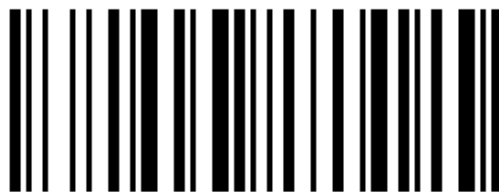
Numeric Setup Code C



Numeric Setup Code D



Numeric Setup Code E



Numeric Setup Code F

## Output Format Settings

To change the output data format, scan the corresponding setup barcode below.



Default Output Format



Allow Suffix Output



Allow Prefix Output



Allow Hiding Leading Data



Allow Hiding Middle Data



Allow Hiding Trailing Data

## Procedure Examples

### Add a Prefix or Suffix

1. If prefix and suffix output has not been enabled, please scan the corresponding output formatting code first.
2. The new characters will be appended to the existing suffixes; if you want to abandon the original suffixes, please scan “Clear all prefixes/suffixes” and then reset them.
3. Scan the “Add Prefix” or “Add Suffix” setting barcode.
4. Determines the hexadecimal value of the prefix or suffix to be entered based on *ASCII Function Key Character Reference Table* or *ASCII Character Reference Table*.
5. Scan the corresponding two-digit hexadecimal setting barcode.
6. To continue adding characters, repeat steps 4 and 5.

#### Example

If you need to add `Ctrl+A` as a prefix, scan “Add Prefix” “9” “7” “4” “1” in sequence.

#### Example

If you need to add `Ctrl+Alt+A` as a suffix, scan “Add suffix” “9” “7” “9” “9” “4” “1” in sequence.

### Steps to Hide the First/Middle/Tail Characters of a Barcode

1. Scan the setting barcode that hides the header, middle starting bit, middle length or trailing characters of the barcode.
2. Determine the hexadecimal value corresponding to the character length to be hidden (for example, hide 4 characters scan 0, 4; hide 12 characters scan 0, C).
3. Scan the corresponding two-digit hexadecimal setting barcode.
4. Enable or disable the hidden character function through the output formatting code.

## 9.2 Extended Data Editing Settings

This section lets you generate data editing setup codes from complete commands in one step. It is intended for batch configuration, remote serial-command delivery, or character replacement.

Online One-Code Setup Generator

Note

The online generator is shown only in the HTML manual. After generating a setup code, scan the generated barcode to complete the setting, or send the command by serial command using the format below.

Add Prefix

Add Suffix

Hide Leading Barcode Characters

Hide Middle Barcode Characters

Hide Trailing Barcode Characters

Character Replacement

One-Code Setup Command Format

Edit format:

\$DATA#ncllxx#

- n**  
1 suffix; 2 prefix; 3 hides the tail content of the barcode; 4 hides the middle content of the barcode; 5 hides the first content of the barcode; 7 replaces characters.
- c**  
Code ID currently supports only 0, which indicates all symbologies.
- 11**  
Length, hexadecimal value: 01~0A, hide 01~FF, replace 01~05.
- xx**  
ASCII value. Hexadecimal can be represented by \x plus two characters, and the character range is 0~9, A~F.

Table 1: One-Code Setup Examples

| Command                | Description                                                        |
|------------------------|--------------------------------------------------------------------|
| \$DATA#1005abcd\x03#   | Add 0x05 suffixes: abcd + 0x03.                                    |
| \$DATA#200ANETUM12345# | Add 0x0A prefix NETUM12345.                                        |
| \$DATA#3008#           | Hide the last 0x08 characters of the barcode.                      |
| \$DATA#40050A#         | Hides the 0x0A characters after the 0x05 character in the barcode. |
| \$DATA#5011#           | Hide barcode header 0x11 bytes.                                    |
| \$DATA#7001\x1D02GS#   | Replace GS (0x1D) characters with GS.                              |
| \$DATA#7002NT01Z#      | Replace NT with Z.                                                 |

## Character replacement operation

Format: \$DATA#70 + replaced character length + replaced characters + replacement data length + replacement data #

The sum of the lengths of the replaced characters and the replacement characters is  $\leq 6$ , supporting 1~6 characters being replaced by 5~0 characters.



Read replacement settings



Clear replacement settings

### Example

\$DATA#7001\x1D02GS# means replacing the non-displayable character GS (0x1D) with GS for display.



Character replacement operation: GS to text GS

### Example

\$DATA#7001\x0A01\x0D# means replacing LF (0x0A) with CR (0x0D).



Character replacement operation: LF to CR

### Example

\$DATA#7006ABCDEF00# means replacing the string ABCDEF with an empty string, that is, not displaying it.

## 9.3 Terminal character settings

**Note**

This terminal character is independent of the scan engine suffix and wireless suffix, which facilitates quick setting when the scan engine has no suffix.



None (Default)



Carriage Return CR



Tab TAB



Carriage Return + Line Feed CRLF



Line Feed LF

## 9.4 GS1 AI field bracket settings

**Note**

Only some AI fields are applicable and require special version support.



Raw Format (Default)



Add Parentheses



Add brackets and separate with CR



Add brackets and separate them with TAB

## 10 Scan Mode

### 10.1 Barcode Decode Mode



Key scan mode (default)



Continuous scan mode

**Note**

Continuous Scan Mode is suitable for high-volume scanning workflows. Press the Trigger button once to start or stop scanning.



Key pulse scan mode

**Note**

Scanning starts when a key-level change is detected and maintained for about 30 ms. Scanning stops when another key-level change is detected, or when a decode succeeds or times out.



Host trigger mode (only applicable to some customized models)

**Note**

Host trigger mode is only applicable to some customized models.



Batch scanning mode (only applicable to some customized models)

## Decoding timeout

This parameter sets the maximum time that decoding processing lasts during a scan attempt. Default: 3000ms, range: 0500-9999ms.



3 seconds (default)



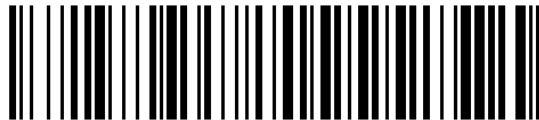
6 seconds

## Scan Interval

The interval between two readings in continuous mode. Default: 500ms, range: 0100-9999ms.



0.5 seconds (default)



1 second

## 11 Module Settings

### 11.1 Trigger settings

#### reading mode

#### Common Reading Modes

#### Key Hold

Set to key hold mode, press the key to trigger reading, release the key to end reading. If the reading is successful or the reading time exceeds the single reading time, the reading will end.



Key Hold

## Single Button Trigger

Set to single button trigger mode. Press the button to start reading. Release the button and the reading will not stop. If the reading is successful or the reading exceeds the single reading time, the reading will stop.



Single Button Trigger

## continuous mode

After the setting is completed, there is no need to trigger. The scan engine starts reading the code immediately. When the reading is successful and the information is output or the single reading time expires, the next reading interval will automatically start after the reading interval times out.



continuous mode

## Auto sensing mode

In the automatic sensing mode, the scan engine will detect the brightness of the surrounding environment. When the brightness changes, the reading is triggered. The reading is successful or the reading time exceeds the single reading time and ends. Regardless of whether the last reading was successful or failed, re-enter to detect the brightness of the surrounding environment.



Auto sensing mode

## Sensitivity

Sensitivity refers to the degree of detection of scene changes in sensor reading mode. When the scan engine determines that the scene change degree meets the requirements, it will switch from the monitoring state to the reading state.



### Image Stabilization Duration Setting

The image stabilization time refers to the time that the scan engine that detects scene changes needs to wait for the image to stabilize before reading the code in the sensor reading mode. The image stabilization time setting range is: 0-65535ms, and the default value is: 300ms.

Scan the “Stabilization Duration” setting barcode



Image Stabilization Time

Scan the “Digital Setup Code” . For example, if the duration is 100ms, scan 1, 0, 0; if the duration is 1005ms, scan 1, 0, 0, 5

Scan the “OK” setting barcode to end the setting



Sure

## Quick Setting Of Image Stabilization Duration



## Command Trigger Mode

By triggering the reading of the scan engine through commands, you can actively end the reading through commands. If the reading is successful or the reading time exceeds the single reading time, the reading will end. For specific triggering commands, please refer to the product instruction information.

### Note

Trigger And End Commands Are Valid In Any Mode

## Special Reading Mode

### Screen Fast Mode

This mode is an extraordinary mode and is not applicable to general version products. It is suitable for application scenarios that require quick recognition of screen codes. Users who need it are asked to contact the supplier.

### Fast Code Reading Mode

This mode is an extraordinary mode and is not suitable for general-purpose products. It is suitable for application scenarios that require rapid reading of barcodes on various paper media. It is suitable for fixed modules, scanning platforms and other product forms. Users who have needs please contact the supplier.

### Single Reading Time

The duration of a single code reading refers to the longest reading attempt time allowed after triggering the reading and failing to read successfully. When this time is exceeded, the reading state will be exited. The range of single code reading time is: 0-65535ms, default: 5000ms.

### Single Reading Time Setting

Scan the “single reading time” setting barcode



Single Reading Time

Scan the “Digital Setup Code” . For example, if the duration is 100ms, scan 1, 0, 0; if the duration is 1005ms, scan 1, 0, 0, 5

Scan the “OK” setting barcode to end the setting



Sure

## Quick Setting Of Single Reading Time



## Same Code Reading Interval

In order to prevent the same barcode from being read multiple times in continuous mode and automatic sensing mode, the scan engine can be required to delay reading the same barcode for a set period of time; the same-code delay means that after reading a barcode, it refuses to read the same barcode within a set period of time. Only after the time has expired can it be read and output. The range is: 0-65535ms, default: 0ms.

## Same Code Reading Interval Setting

Scan the “same code time interval” setting barcode



Same Code Time Interval

Scan the “Digital Setup Code” . For example, if the interval is 100ms, scan 1, 0, 0; if the interval is 1005ms, scan 1, 0, 0, 5

Scan the “OK” setting barcode to end the setting



Sure

Quick Setting Of Same Code Reading Interval

|                                                                                                                                   |                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| <br>\* 0ms                                       | <br>100ms     |
| <br>300ms                                        | <br>500ms     |
| <br>1000ms                                      | <br>3000ms   |
| <br>5000ms                                     | <br>10000ms |
| <br>Infinite Delay (do Not Read The Same Code) |                                                                                                 |

## Reading Interval Time

The interval between two readings in continuous mode. Regardless of whether the last reading was successful or failed, it will automatically enter the next reading after this time. This setting mainly applies to continuous mode

Default: 500ms, range: 0-65535ms

## Reading Interval Setting

Scan the “Reading Interval Time” setting barcode



Reading Interval Time

Scan the “Digital Setup Code” . For example, if the interval is 100ms, scan 1, 0, 0; if the interval is 1005ms, scan 1, 0, 0, 5

Scan the “OK” setting barcode to end the setting



Sure

## Quickly Set The Reading Interval Time

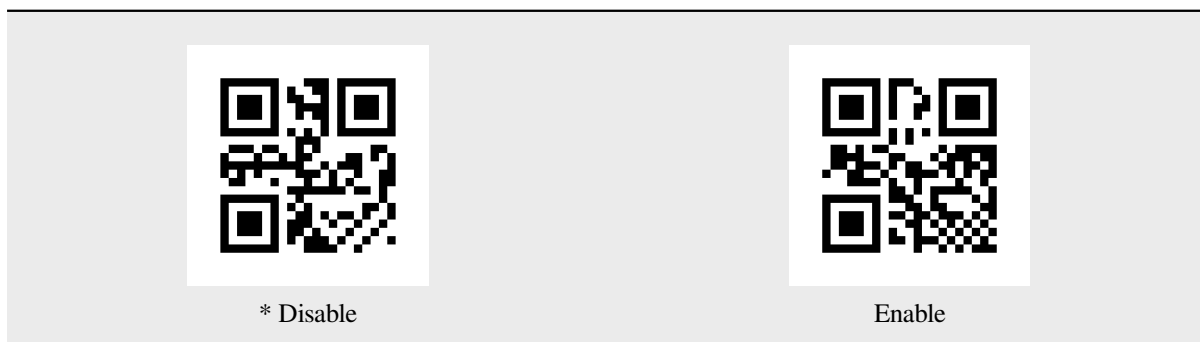


## 11.2 Engine Code ID

### BarCode ID

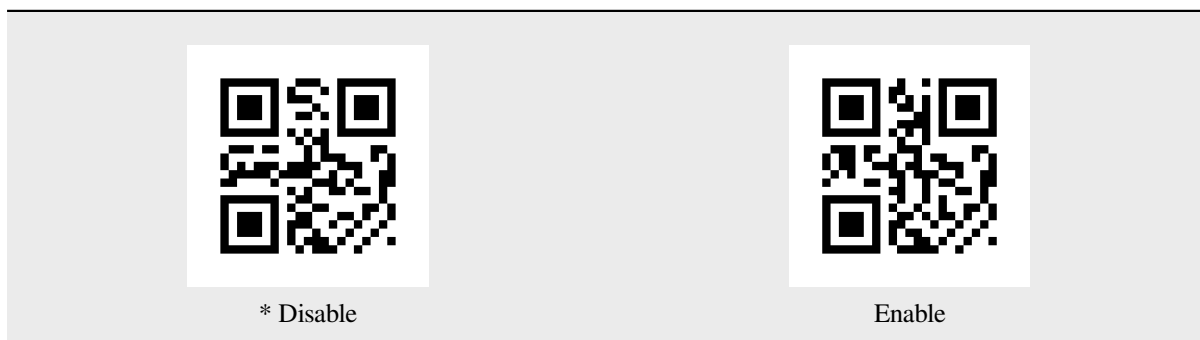
### AIM ID

AIM is the abbreviation of Automatic Identification Manufacturers (Automatic Identification Manufacturers Association). AIM ID defines identification codes for various standard barcodes (users cannot customize AIM ID). For specific definitions, see Appendix C: AIM ID List. The scan engine can add this identification code in front of the barcode data after decoding. The format is: “J” + letter “C” + number “0”. For example, the AIM ID of Code 128 is “JC0”. Users can identify different barcode types through AIM ID.



## Code ID

Users can identify different barcode types through Code ID, which uses one character for identification. For specific definitions, see Appendix B: Code ID List



## Code ID

| Code Character | Barcode Type                 |
|----------------|------------------------------|
| C              | Code 128/UCC/EAN-128/GS1-128 |
| F              | Code 39/Code 32              |
| J              | Code 11                      |
| B              | Codabar                      |
| K              | Code 93                      |
| E              | EAN-13/EAN-8/ISBN/ISSN       |
| U              | UPC-A/UPC-E                  |
| I              | ITF25                        |
| D              | IND25                        |
| S              | STD25                        |
| M              | MATRIX25                     |
| N              | NEC25/COOP25                 |
| P              | MSI Plessey                  |
| T              | TELEPEN                      |
| A              | Pharmacode One-Track         |
| W              | TRIOPTIC                     |
| H              | HONG KONG 2 of 5/CHINA POST  |
| R              | GS1 DataBar/RSS              |
| q              | QR Code/Micro QR             |

continues on next page

Table 2 – continued from previous page

| Code Character | Barcode Type       |
|----------------|--------------------|
| p              | PDF417/MicroPDF417 |
| d              | Data Matrix (DM)   |
| a              | Aztec Code         |
| h              | Han Xin            |
| m              | MaxiCode           |
| t              | DotCode            |
| g              | GM                 |
| o              | OCR                |
| k              | Codablock A        |
| f              | Codablock F        |
| n              | Postal Code        |
| V              | Korea Post         |

**AIM ID**

| Barcode Type                 | AIM ID | Description |
|------------------------------|--------|-------------|
| Code 128/UCC/EAN-128/GS1-128 | ]Cm    | 0,1,2,4     |
| Code 39                      | ]Am    | 0,1,3,4,5,7 |
| Code 32                      | ]X0    |             |
| Code 11                      | ]Hm    | 0,1,3       |
| Codabar                      | ]Fm    | 0-1         |
| Code 93                      | ]Gm    | 0-9,A-Z,a-m |
| EAN-13                       | ]E0    |             |
| EAN-8                        | ]E4    |             |
| ISSN                         |        |             |
| ISBN                         | ]E0    |             |
| UPC-A                        | ]E0    |             |
| UPC-E                        | ]E0    |             |
| UPC-E1                       | ]E1    |             |
| ITF25                        | ]Im    | 0,1,3       |
| IND25                        | ]S0    |             |
| STD25                        | ]Rm    | 0,1,3       |
| MATRIX25                     | ]X0    |             |
| NEC25/COOP25                 | ]X0    |             |
| MSI Plessey                  | ]Mm    | 0,1         |
| TELEPEN                      | ]Bm    |             |
| Pharmacode One-Track         |        |             |
| TRIOPTIC                     |        |             |
| QR Code                      | ]Qm    | 0-6         |
| Micro QR                     | ]Qm    |             |
| PDF417                       | ]Lm    | 0-2         |
| MicroPDF417                  | ]Lm    | 3,4,5       |
| Data Matrix (DM)             | ]dm    | 0-6         |
| Aztec Code                   | ]zm    | 0-9,A-C     |
| Han Xin                      | ]X0    |             |

continues on next page

Table 3 – continued from previous page

| Barcode Type    | AIM ID | Description |
|-----------------|--------|-------------|
| MaxiCode        | ]Um    | 0-3         |
| DotCode         | ]X0    |             |
| GM              | ]X0    |             |
| Codablock A     | ]O6    | 0,1,4,5,6   |
| Codablock F     | ]Om    | 0,1,4,5,6   |
| GS1 DataBar/RSS | ]e0    |             |
| Korea Post      | ]X0    |             |

## 11.3 Engine output format

### Suffix

In order for the host to quickly distinguish the current decoding results, the function of adding end characters can be turned on, and the reading module will add the corresponding end characters after decoding the data.

|                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|   |   |
| Disable                                                                             | Carriage Return And Line Feed                                                        |
|  |  |
| * Enter                                                                             | TAB                                                                                  |
|  |                                                                                      |
| Enter Enter                                                                         |                                                                                      |

## Line Feed And Carriage Return

Line feed (\n) and carriage return line feed (\r\n) are both converted to carriage return (\r).



\* Disable



Enable

## URL Switch

To prevent barcodes with URL information from being mistakenly scanned when scanning product barcodes, or in some other special applications, this function can disable the recognition of barcodes with URL information as needed.



\* Enable URL Code



Disable URL Codes

## Invoicing Function

In order to use this module normally in the invoicing system, users can convert and output the invoice code format by scanning the following setting barcode.

**Note**

This function supports Alipay QR code invoicing, but does not support WeChat QR code invoicing.

### Invoicing Function Switch



\* Disable



Enable

### Invoice type



\* Special Ticket



Popular Vote

### GS1 Rules Enabled

Enable GS1 rules and enclose AI segments in parentheses.



\* Disable



Enable

## 11.4 Barcode Settings

### Barcode Global Operations

#### Global Switch



Disable



Enable



\* Default

#### 1D Code Global Switch



Disable



Enable



\* Default

## QR Code Global Switch



## Barcode Security Level

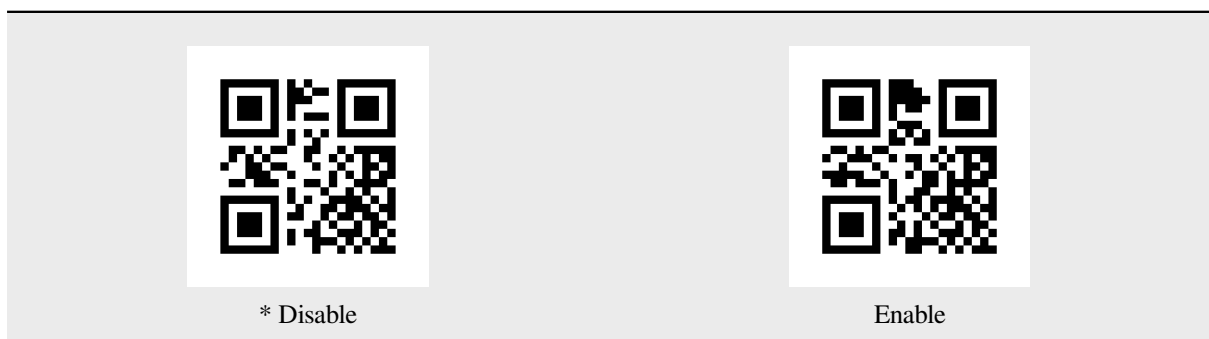
In order to solve the problem of possible code errors in barcode reading under extreme circumstances, 5 security levels are provided here. The higher the level, the worse the reading experience will be.



### Multi-code Identification

In special application scenarios, multiple barcodes need to be read at the same time. Reading the following setting barcode will enable/disable multi-code reading.

### Must Read Multiple Codes



## Read Multiple Codes



## Global Invert Color Switch

Read the following setting barcode to enable/disable barcode inversion reading.

### Note

The global inverse color switch will have a greater impact on the performance of the reading equipment. Commonly used barcodes have separate inverse color switches. It is recommended to turn them on separately.



## Partial Inverse Color Switch

### Code 128 Reverse Color Switch

Read the following setting barcode to enable/disable reverse color reading of Code 128 barcodes. This setting is also valid for GS1-128



\* Disable



Enable

### EAN/UPC Color Inversion Switch

Read the following setting barcode to enable/disable reverse color reading of EAN/UPC barcodes.



\* Disable



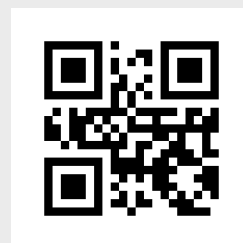
Enable

### ITF25 Reverse Color Switch

Read the following setting barcode to enable/disable reverse color reading of ITF25 barcodes.



\* Disable



Enable

### Code 39 Reverse Color Switch

Read the following setting barcode to enable/disable reverse color reading of Code 39 barcodes.

|                                                                                                |                                                                                              |
|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| <br>* Disable | <br>Enable |
|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|

### Codabar Reverse Color Switch

Read the following setting barcode to enable/disable reverse color reading of Codabar barcodes.

|                                                                                                 |                                                                                               |
|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <br>* Disable | <br>Enable |
|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|

### Code 93 Reverse Color Switch

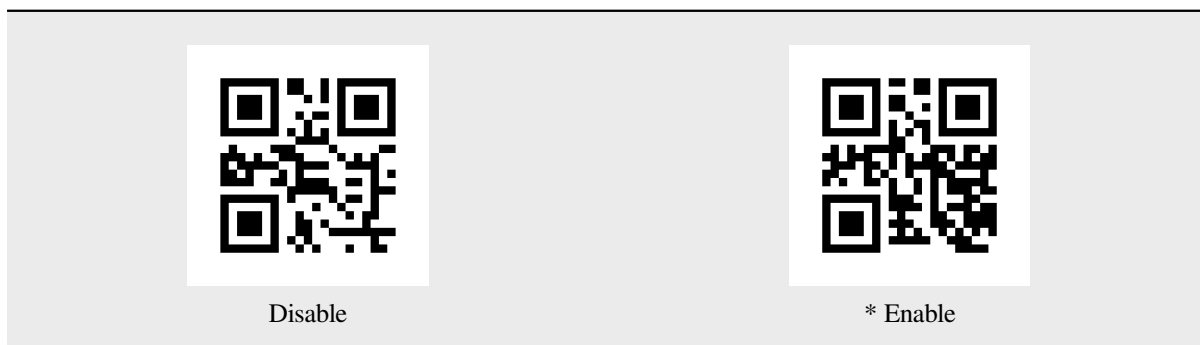
Read the following setting barcode to enable/disable reverse color reading of Code 93 barcodes.

|                                                                                                  |                                                                                                |
|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| <br>* Disable | <br>Enable |
|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|

### Code 128

#### Code 128 Switch

Read the following setting barcode to enable/disable reading of Code 128 barcodes.



## Code 128 Minimum Length

There are two methods for setting the minimum length of Code 128. The first method requires the user to generate a QR code, which tends to be set by more users and is more flexible. The second method can scan the setting barcode in this manual according to the steps.

Method one:

Code 128 Minimum length setting barcode content format: >!000012XX. XX is a setting variable, with a decimal range of 0-255.

For example: Code 128 minimum length is set to 2, then the setting barcode content is: >!0000122.

For example: Code 128 minimum length is set to 12, then the setting barcode content is: >!00001212.

Method two:

Scan the “Code 128 Minimum Length” setting barcode



Code 128 Minimum Length

Scan the “Digital Setup Code” . For example, if the minimum length is 2 digits, scan 2; if the minimum length is 12 digits, scan 1,2

Scan the “OK” setting barcode to end the setting



Sure

## Code 128 Maximum Length

There are two methods for setting the maximum length of Code 128. The first method requires the user to generate a QR code, which tends to be set by more users and is more flexible. The second method can scan the setting barcode in this manual according to the steps.

Method one:

Code 128 Maximum length setting barcode content format: >!000013XX. XX is a setting variable with a decimal range of 0-255.

For example: if the maximum length of Code 128 is set to 9, then the setting barcode content is: >!0000129.

For example: Code 128 maximum length is set to 20, then the setting barcode content is: >!00001220.

Method two:

Scan the “Code 128 Maximum Length” setting barcode



Code 128 Maximum Length

Scan the “Digital Setup Code” . For example, if the maximum length is 9 digits, scan 9; if the maximum length is 20 digits, scan 2,0

Scan the “OK” setting barcode to end the setting



Sure

### Code 128 Security Level

The higher the barcode security level, the lower the error rate, and the code reading effect will also be affected to a certain extent.



\* Low



Medium



High

### UCC/EAN-128/GS1-128

#### GS1 128 Switch

Read the following setting barcode to enable/disable reading of the GS1 128 barcode.



Disable



\* Enable

## GS1 128 Minimum Length

There are two methods for setting the minimum length of GS1 128. The first method requires the user to generate a QR code, which tends to be set by more users and is more flexible. The second method can scan the setting barcode in this manual according to the steps.

Method one:

GS1 128 minimum length setting barcode content format: >!000022XX. XX is a setting variable with a decimal range of 0-255.

For example: if the minimum length of GS1 128 is set to 2, then the setting barcode content is: >!0000222.

For example: if the minimum length of GS1 128 is set to 12, then the setting barcode content is: >!00002212.

Method two:

Scan the “GS1 128 minimum length” setting barcode



GS1 128 Minimum Length

Scan the “Digital Setup Code” . For example, if the minimum length is 2 digits, scan 2; if the minimum length is 12 digits, scan 1,2

Scan the “OK” setting barcode to end the setting



Sure

## GS1 128 Maximum Length

There are two methods for setting the maximum length of GS1 128. Method one requires the user to generate a QR code, which tends to be set by more users and is more flexible. Method two can scan the setting barcode in this manual according to the steps.

Method one:

GS1 128 maximum length setting barcode content format: >!000023XX. XX is a setting variable with a decimal range of 0-255.

For example: if the maximum length of GS1 128 is set to 9, then the setting barcode content is: >!0000239.

For example: if the maximum length of GS1 128 is set to 20, then the setting barcode content is: >!00002320.

---

Method two:

Scan the “GS1 128 maximum length” setting barcode



GS1 128 Maximum Length

Scan the “Digital Setup Code” . For example, if the maximum length is 9 digits, scan 9; if the maximum length is 20 digits, scan 2,0

Scan the “OK” setting barcode to end the setting



Sure

## **EAN-8**

### **EAN-8 Switch**

Read the following setting barcode to enable/disable EAN-8 barcode reading.



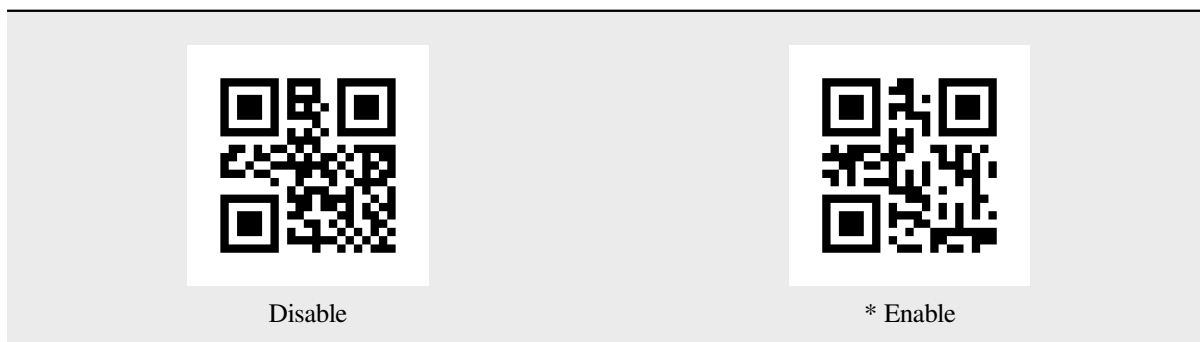
Disable



\* Enable

### **EAN-8 Check Digit Transmission**

Read the following setting barcode to set whether EAN-8 transmits the check digit.



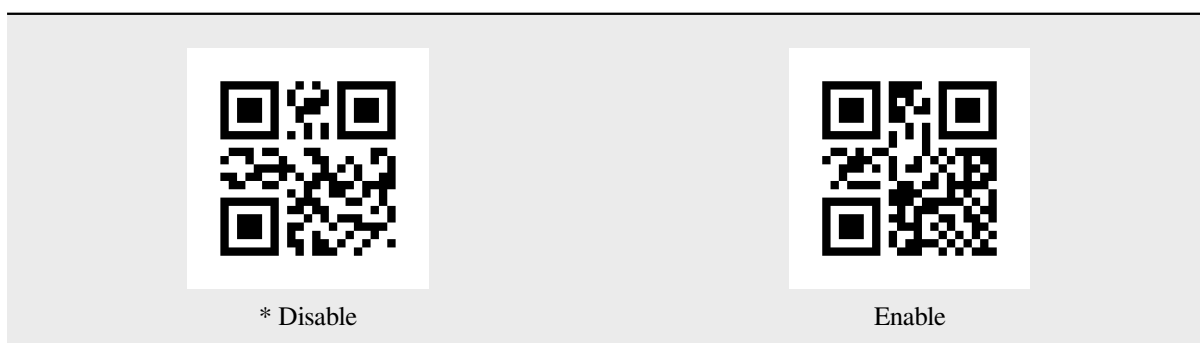
### **EAN-8 Reads 2-digit Additional Code**

Read the following setting barcode to set whether EAN-8 can read the 2-digit additional code.



### **EAN-8 Reads 5-digit Additional Code**

Read the following setting barcode to set whether EAN-8 can read the 5-digit additional code.



## Read Only With Add-on Code EAN-8

Read the following setting barcode to set whether to read only EAN-8 with additional code.



\* Disable



Enable

## EAN-13

### EAN-13 Switch

Read the following setting barcode to enable/disable EAN-13 barcode reading.



Disable



\* Enable

### EAN-13 Check Digit Transmission

Read the following setting barcode to set whether EAN-13 transmits check digits.



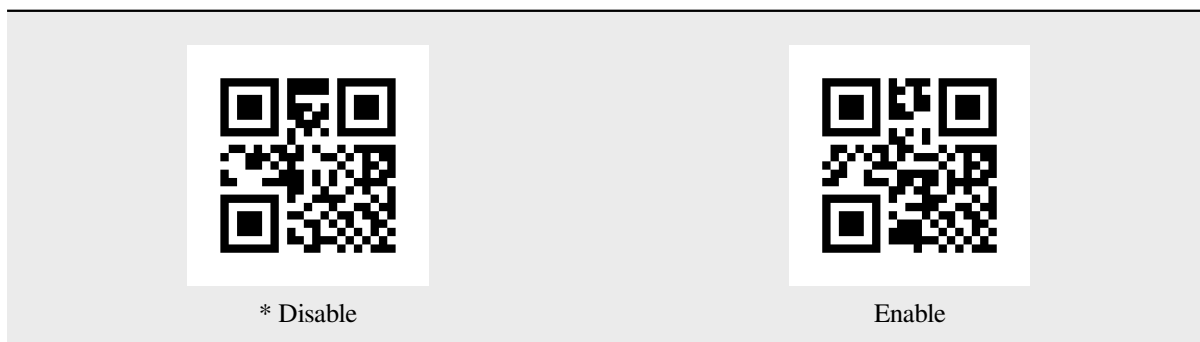
Disable



\* Enable

### EAN-13 Reads 2-digit Additional Code

Read the following setting barcode to set whether EAN-13 can read the 2-digit additional code.



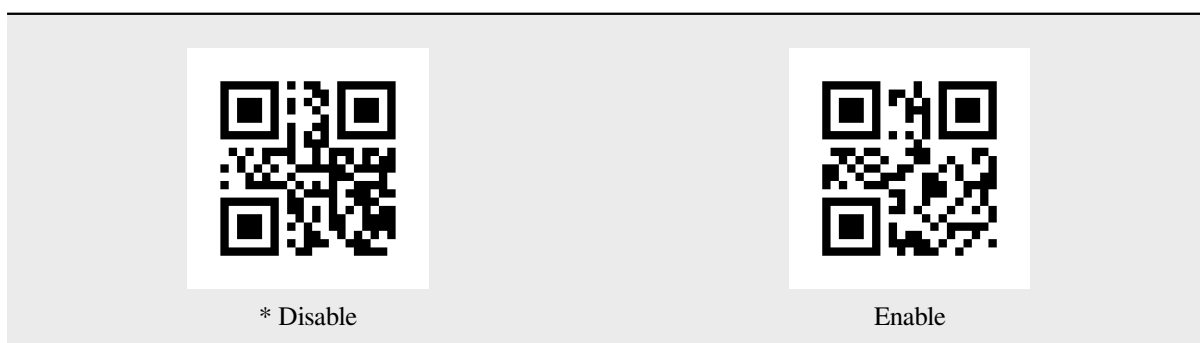
### **EAN-13 Reads 5-digit Additional Code**

Read the following setting barcode to set whether EAN-13 can read the 5-digit additional code.



### **Read Only With Add-on Code EAN-13**

Read the following setting barcode to set whether to read only EAN-13 with additional code.



### **ISSN**

Read the following setting barcode to enable/disable ISSN barcode reading.

**Note**

Disable ISSN, ISSN will be treated as EAN-13



\* Disable



Enable

## ISBN

Read the following setting barcode to enable/disable ISBN barcode reading.

**Note**

Disable ISBN, ISBN will be treated as EAN-13



\* Disable



Enable

## UPC-E

### UPC-E Switch

Read the following setting barcode to enable/disable reading of UPC-E barcodes.



Disable



\* Enable

### UPC-E Check Digit Transmission

Read the following setting barcode to set whether UPC-E transmits the check digit.



Disable



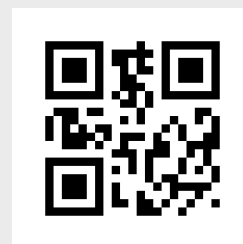
\* Enable

### UPC-E Reads 2-digit Additional Code

Read the following setting barcode to set whether UPC-E can read the 2-digit additional code.



\* Disable



Enable

### UPC-E Reads 5-digit Additional Code

Read the following setting barcode to set whether UPC-E can read the 5-digit additional code.



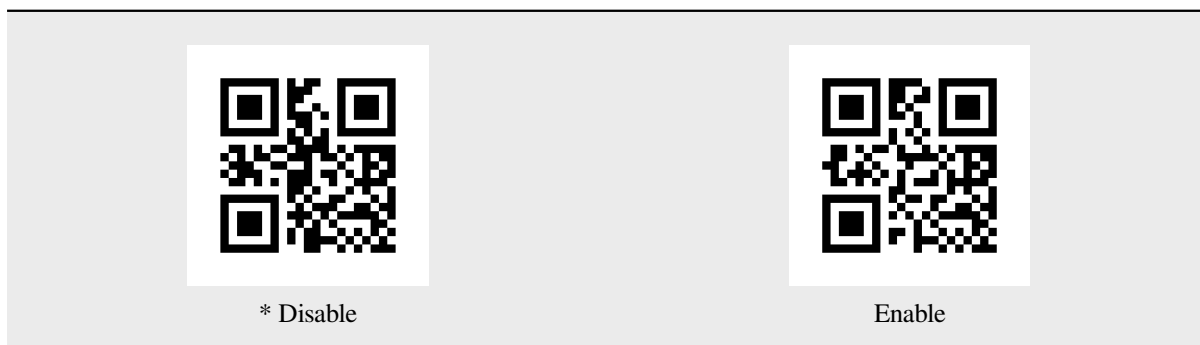
\* Disable



Enable

### Read Only With Add-on Code UPC-E

Read the following setting barcode to set whether to read only UPC-E with additional code.



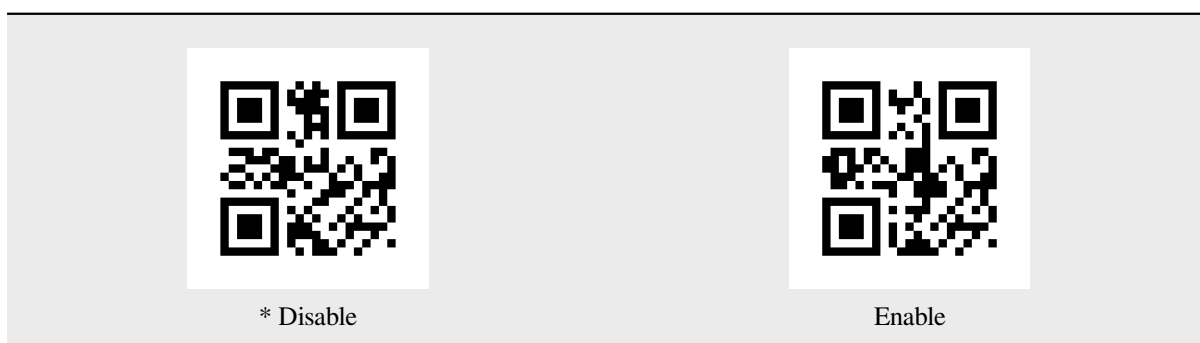
### Transmission system character “0”

Read the following setting barcode to set whether UPC-E transmits the system character “0” .



### UPC-E To UPC-A

Read the following setting barcode to set whether to convert UPC-E to UPC-A.



## UPC-E1 Switch

Read the following setting barcode to set whether to read UPC-E1.

|                                                                                                |                                                                                              |
|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| <br>* Disable | <br>Enable |
|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|

## Transmit national character “0”

Read the following setting barcode to set whether UPC-E transmits the national character “0” .

|                                                                                                 |                                                                                               |
|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <br>* Disable | <br>Enable |
|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|

## UPC-A

### UPC-A Switch

Read the following setting barcode to enable/disable reading of UPC-A barcodes.

|                                                                                                |                                                                                                  |
|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| <br>Disable | <br>* Enable |
|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|

## UPC-A Check Digit Transmission

Read the following setting barcode to set whether UPC-A transmits the check digit.



Disable



\* Enable

### UPC-A Reads 2-digit Additional Code

Read the following setting barcode to set whether UPC-A can read the 2-digit additional code.



\* Disable



Enable

### UPC-A Reads 5-digit Additional Code

Read the following setting barcode to set whether UPC-A can read the 5-digit additional code.



\* Disable



Enable

## Read Only With Add-on Code UPC-A

Read the following setting barcode to set whether to read only UPC-A with additional code.

|                                                                                                |                                                                                              |
|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| <br>* Disable | <br>Enable |
|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|

## Transmission system character “0”

Read the following setting barcode to set whether UPC-A transmits system characters.

|                                                                                               |                                                                                                 |
|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| <br>Disable | <br>* Enable |
|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|

## Transmit national character “0”

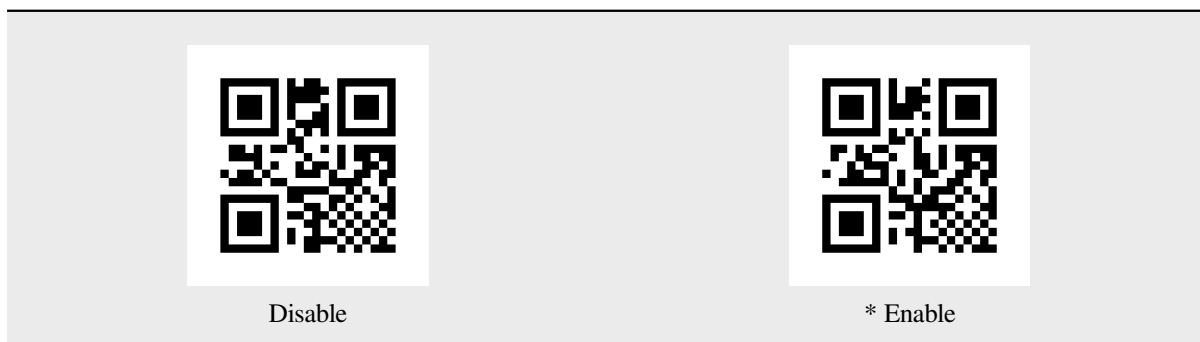
Read the following setting barcode to set whether UPC-E transmits the national character “0”. (Whether UPC-A will be converted to EAN-13 will be set)

|                                                                                                  |                                                                                                |
|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| <br>* Disable | <br>Enable |
|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|

## ITF25

### ITF25 Switch

Read the following setting barcode to enable/disable reading of ITF25 barcodes.



### ITF25 Check Digit Verification

Read the following setting barcode to set whether the ITF25 check digit is verified.



### ITF25 Check Digit Transmission

Read the following setting barcode to set whether the ITF25 check digit is transmitted.

**Note**

To enable transmission check digit, please enable the check digit verification function first.



\* Disable



Enable

### ITF25 Minimum Length

There are two methods for setting the minimum length of ITF25. The first method requires the user to generate a QR code, which tends to be set by more users and is more flexible. The second method can scan the setting barcode in this manual according to the steps.

Method one:

ITF25 minimum length setting barcode content format: >!0000B3XX. XX is a setting variable with a decimal range of 0-255.

For example: if the minimum length of ITF25 is set to 2, then the setting barcode content is: >!0000B32.

For example: if the minimum length of ITF25 is set to 12, the setting barcode content is: >!0000B312.

Method two:

Scan the “ITF25 minimum length” setting barcode



ITF25 Minimum Length

Scan the “Digital Setup Code” . For example, if the minimum length is 2 digits, scan 2; if the minimum length is 12 digits, scan 1,2

Scan the “OK” setting barcode to end the setting



Sure

## ITF25 Maximum Length

There are two methods for setting the maximum length of ITF25. Method one requires the user to generate a QR code, which tends to be set by more users and is more flexible. Method two can scan the setting barcode in this manual according to the steps.

Method one:

ITF25 maximum length setting barcode content format: >!0000B4XX. XX is a setting variable, with a decimal range of 0-255.

For example: if the maximum length of ITF25 is set to 9, then the setting barcode content is: >!0000B49.

For example: if the maximum length of ITF25 is set to 20, the setting barcode content is: >!0000B420.

Method two:

Scan the “ITF25 maximum length” setting barcode



ITF25 Maximum Length

Scan the “Digital Setup Code” . For example, if the maximum length is 9 digits, scan 9; if the maximum length is 20 digits, scan 2,0

Scan the “OK” setting barcode to end the setting



Sure

### Brazilian Government/Bank Code



\* Disable



Enable

### NEC25/COOP25

#### NEC25 Switch

Read the following setting barcode to enable/disable NEC25 barcode reading.



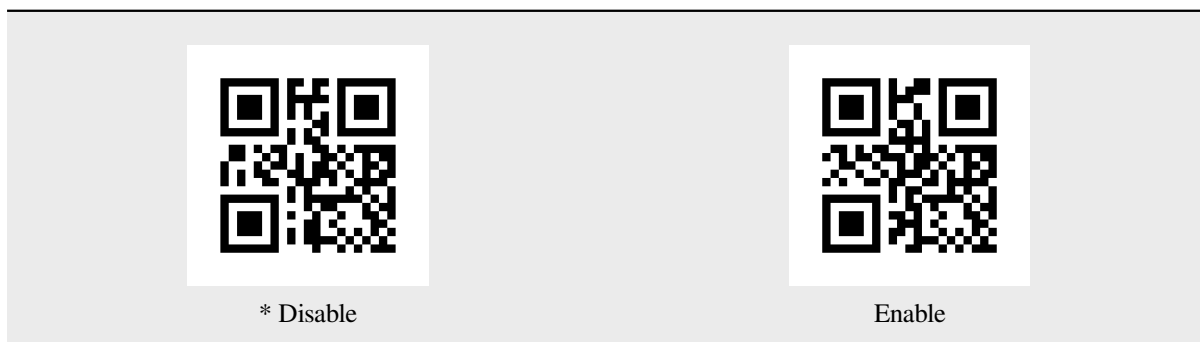
\* Disable



Enable

#### NEC25 Check Digit Verification

Read the following setting barcode to set whether the NEC25 check digit is verified.



## NEC25 Check Digit Transmission

Read the following setting barcode to set whether the NEC25 check digit is transmitted.

### **Note**

To enable transmission check digit, please enable the check digit verification function first.



## NEC25 Minimum Length

There are two methods for setting the minimum length of NEC25. The first method requires the user to generate a QR code, which tends to be set by more users and is more flexible. The second method can scan the setting barcode in this manual according to the steps.

Method one:

NEC25 minimum length setting barcode content format: >!000103XX. XX is a setting variable with a decimal range of 0-255.

For example: if the minimum length of NEC25 is set to 2, then the setting barcode content is: >!0001032.

For example: if the minimum length of NEC25 is set to 12, the setting barcode content is: >!00010312.

Method two:

Scan the “NEC25 minimum length” setting barcode



NEC25 Minimum Length

Scan the “Digital Setup Code” . For example, if the minimum length is 2 digits, scan 2; if the minimum length is 12 digits, scan 1,2

Scan the “OK” setting barcode to end the setting



Sure

## NEC25 Maximum Length

There are two methods for setting the maximum length of NEC25. Method one requires the user to generate a QR code, which tends to be set by more users and is more flexible. Method two can scan the setting barcode in this manual according to the steps.

Method one:

NEC25 maximum length setting barcode content format: >!000104XX. XX is a setting variable with a decimal range of 0-255.

For example: if the maximum length of NEC25 is set to 9, the setting barcode content is: >!0001049.

For example: if the maximum length of NEC25 is set to 20, the setting barcode content is: >!00010420.

Method two:

Scan the “NEC25 maximum length” setting barcode



NEC25 Maximum Length

Scan the “Digital Setup Code” . For example, if the maximum length is 9 digits, scan 9; if the maximum length is 20 digits, scan 2,0

Scan the “OK” setting barcode to end the setting



Sure

## MATRIX25

### MATRIX25 Switch

Read the following setting barcode to enable/disable MATRIX25 barcode reading.



\* Disable



Enable

### MATRIX25 Check Digit Verification

Read the following setting barcode to set whether the MATRIX25 check digit is verified.



\* Disable



Enable

### MATRIX25 Check Digit Transmission

Read the following setting barcode to set whether the MATRIX25 check digit is transmitted.

**Note**

To enable transmission check digit, please enable the check digit verification function first.



\* Disable



Enable

## MATRIX25 Minimum Length

There are two methods for setting the minimum length of MATRIX25. Method one requires the user to generate a QR code, which tends to be set by more users and is more flexible to use. Method two can scan the setting barcode in this manual according to the steps.

Method one:

MATRIX25 minimum length setting barcode content format: >!000113XX. XX is a setting variable, with a decimal range of 0-255.

For example: if the minimum length of MATRIX25 is set to 2, the setting barcode content is: >!0001132.

For example: if the minimum length of MATRIX25 is set to 12, the setting barcode content is: >!00011312.

Method two:

Scan the “MATRIX25 minimum length” setting barcode



MATRIX25 Minimum Length

Scan the “Digital Setup Code” . For example, if the minimum length is 2 digits, scan 2; if the minimum length is 12 digits, scan 1,2

Scan the “OK” setting barcode to end the setting



Sure

## MATRIX25 Maximum Length

There are two methods for setting the maximum length of MATRIX25. Method one requires the user to generate a QR code, which tends to be set by more users and is more flexible. Method two can scan the setting barcode in this manual according to the steps.

Method one:

MATRIX25 maximum length setting barcode content format: >!000114XX. XX is a setting variable with a decimal range of 0-255.

For example: if the maximum length of MATRIX25 is set to 9, the setting barcode content is: >!0001149.

For example: if the maximum length of MATRIX25 is set to 20, the setting barcode content is: >!00011420.

Method two:

Scan the “MATRIX25 maximum length” setting barcode



MATRIX25 Maximum Length

Scan the “Digital Setup Code” . For example, if the maximum length is 9 digits, scan 9; if the maximum length is 20 digits, scan 2,0

Scan the “OK” setting barcode to end the setting

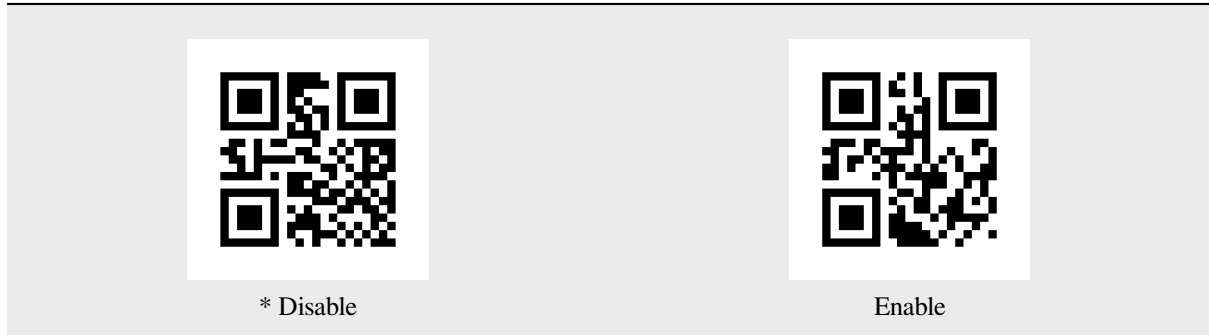


Sure

## IND25

### IND25 Switch

Read the following setting barcode to enable/disable reading of IND25 barcodes.



### IND25 Minimum Length

There are two methods for setting the minimum length of IND25. Method one requires the user to generate a QR code, which tends to be set by more users and is more flexible. Method two can scan the setting barcode in this manual according to the steps.

Method one:

IND25 minimum length setting barcode content format: >!000123XX. XX is a setting variable with a decimal range of 0-255.

For example: if the minimum length of IND25 is set to 2, the setting barcode content is: >!0001232.

For example: if the minimum length of IND25 is set to 12, the setting barcode content is: >!00012312.

Method two:

Scan the “IND25 minimum length” setting barcode



IND25 Minimum Length

Scan the “Digital Setup Code” . For example, if the minimum length is 2 digits, scan 2; if the minimum length is 12 digits, scan 1,2

Scan the “OK” setting barcode to end the setting



Sure

## IND25 Maximum Length

There are two methods for setting the maximum length of IND25. Method one requires the user to generate a QR code, which tends to be set by more users and is more flexible to use. Method two can scan the setting barcode in this manual according to the steps.

Method one:

IND25 maximum length setting barcode content format: >!000124XX. XX is a setting variable, with a decimal range of 0-255.

For example: if the maximum length of IND25 is set to 9, the setting barcode content is: >!0001249.

For example: if the maximum length of IND25 is set to 20, the setting barcode content is: >!00012420.

Method two:

Scan the “IND25 maximum length” setting barcode



IND25 Maximum Length

Scan the “Digital Setup Code” . For example, if the maximum length is 9 digits, scan 9; if the maximum length is 20 digits, scan 2,0

Scan the “OK” setting barcode to end the setting



Sure

## STD25

### STD25 Switch

Read the following setting barcode to enable/disable STD25 barcode reading.



\* Disable



Enable

### STD25 Minimum Length

There are two methods for setting the minimum length of STD25. The first method requires the user to generate a QR code, which tends to be set by more users and is more flexible. The second method can scan the setting barcode in this manual according to the steps.

Method one:

STD25 minimum length setting barcode content format: >!000133XX. XX is a setting variable with a decimal range of 0-255.

For example: if the minimum length of STD25 is set to 2, the setting barcode content is: >!0001332.

For example: if the minimum length of STD25 is set to 12, the setting barcode content is: >!00013312.

Method two:

Scan the “STD25 minimum length” setting barcode



STD25 Minimum Length

Scan the “Digital Setup Code” . For example, if the minimum length is 2 digits, scan 2; if the minimum length is 12 digits, scan 1,2

Scan the “OK” setting barcode to end the setting



Sure

## STD25 Maximum Length

There are two methods for setting the maximum length of STD25. The first method requires the user to generate a QR code, which tends to be set by more users and is more flexible. The second method can scan the setting barcode in this manual according to the steps.

Method one:

STD25 maximum length setting barcode content format: >!000134XX. XX is a setting variable with a decimal range of 0-255.

For example: if the maximum length of STD25 is set to 9, the setting barcode content is: >!0001349.

For example: if the maximum length of STD25 is set to 20, the setting barcode content is: >!00013420.

Method two:

Scan the “STD25 maximum length” setting barcode



STD25 Maximum Length

Scan the “Digital Setup Code” . For example, if the maximum length is 9 digits, scan 9; if the maximum length is 20 digits, scan 2,0

Scan the “OK” setting barcode to end the setting



Sure

## Code 39

### Code 39 Switch

Read the following setting barcode to enable/disable reading of Code 39 barcodes.

|                                                                                   |                                                                                    |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|  |  |
| Disable                                                                           | * Enable                                                                           |

### Code 39 check digit verification

Read the following setting barcode to set whether the Code 39 check digit is verified.

|                                                                                    |                                                                                     |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |
| * Disable                                                                          | Enable                                                                              |

### Code 39 Check Digit Transmission

Read the following setting barcode to set whether the Code 39 check digit is transmitted.

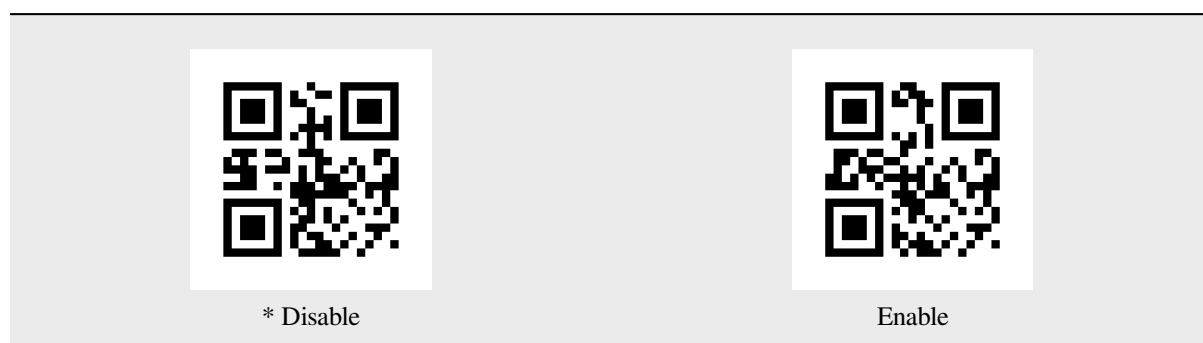
#### Note

To enable transmission check digit, please enable the check digit verification function first.

|                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |
| * Disable                                                                           | Enable                                                                               |

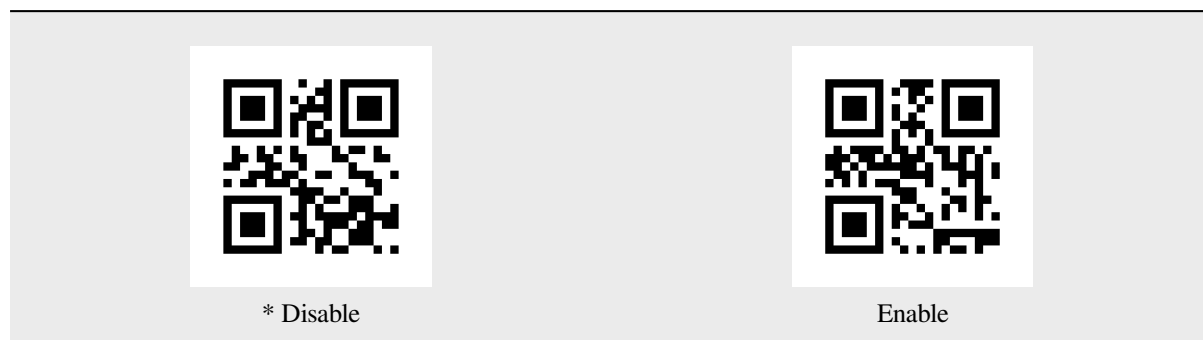
## Code 39 Start Character/end Character Transmission

Read the following setting barcode to set whether the Code 39 start character/end character is transmitted.



## Code 39 FULL ASCII Switch

Read the following setting barcode to enable/disable reading of Code 39 FULL ASCII barcodes.



## Code 39 Minimum Length

There are two methods for setting the minimum length of Code 39. The first method requires the user to generate a QR code, which tends to be set by more users and is more flexible. The second method can scan the setting barcode in this manual according to the steps.

Method one:

Code 39 Minimum length setting barcode content format: >!000145XX. XX is a setting variable, with a decimal range of 0-255.

For example: if the minimum length of Code 39 is set to 2, the setting barcode content is: >!0001452.

For example: Code 39 minimum length is set to 12, then the setting barcode content is: >!00014512.

Method two:

Scan the “Code 39 Minimum Length” setting barcode



Code 39 Minimum Length

Scan the “Digital Setup Code” . For example, if the minimum length is 2 digits, scan 2; if the minimum length is 12 digits, scan 1,2

Scan the “OK” setting barcode to end the setting



Sure

### Code 39 Maximum Length

There are two methods for setting the maximum length of Code 39. Method one requires the user to generate a QR code, which tends to be set by more users and is more flexible. Method two can scan the setting barcode in this manual according to the steps.

Method one:

Code 39 Maximum length setting barcode content format: >!000146XX. XX is a setting variable, with a decimal range of 0-255.

For example: if the maximum length of Code 39 is set to 9, then the setting barcode content is: >!0001469.

For example: if the maximum length of Code 39 is set to 20, the setting barcode content is: >!00014620.

Method two:

Scan the “Code 39 Maximum Length” setting barcode



Code 39 Maximum Length

Scan the “Digital Setup Code” . For example, if the maximum length is 9 digits, scan 9; if the maximum length is 20 digits, scan 2,0

Scan the “OK” setting barcode to end the setting



Sure

### Code 32 Switch

Read the following setting barcode to enable/disable the setting of Code 39 to Code 32



\* Disable



Enable

### Code 32 prefix

Read the following setting barcode to set whether the Code 32 prefix is transmitted.



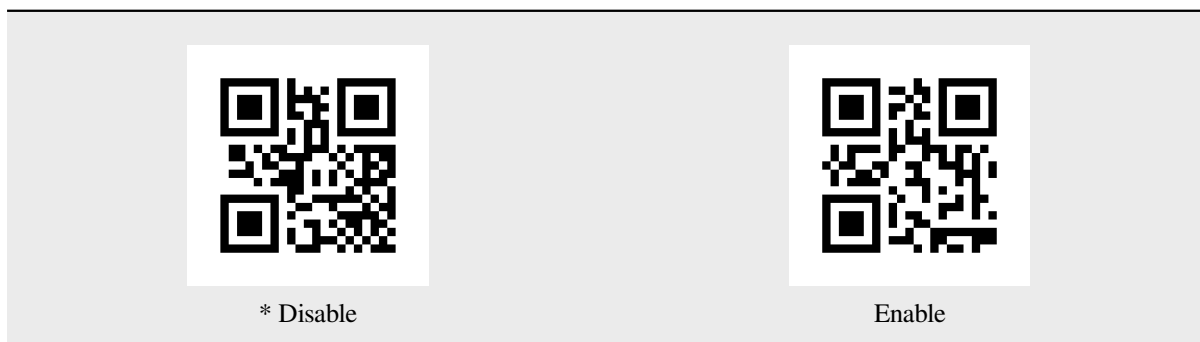
\* Disable



Enable

### Code 32 Check Digit Verification

Read the following setting barcode to set whether the Code 32 check digit is verified.



### Code 32 Check Digit Transmission

Read the following setting barcode to set whether the Code 32 check digit is transmitted.

#### Note

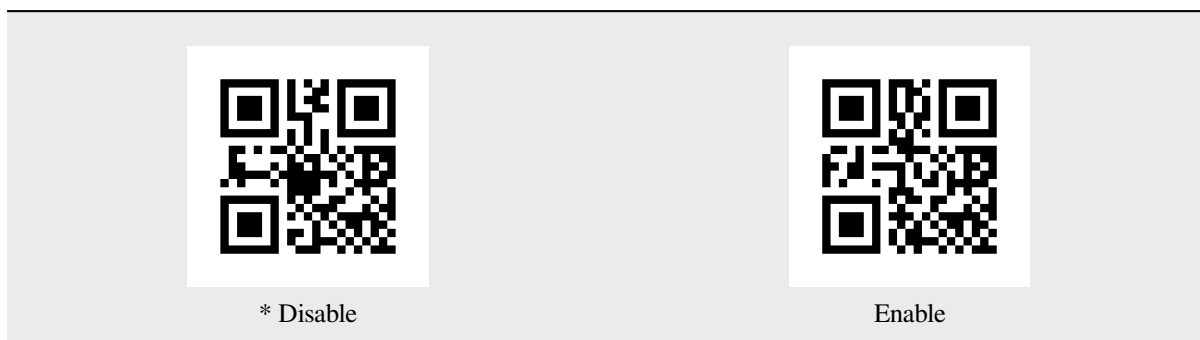
To enable transmission check digit, please enable the check digit verification function first.



### Codabar

#### Codabar Switch

Read the following setting barcode to enable/disable Codabar barcode reading.



## Codabar Check Digit Verification

Read the following setting barcode to set whether the Codabar check digit is verified.

|                                                                                                |                                                                                              |
|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| <br>* Disable | <br>Enable |
|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|

## Codabar Check Digit Transmission

Read the following setting barcode to set whether the Codabar check digit is transmitted.



### Note

To enable transmission check digit, please enable the check digit verification function first.

|                                                                                                  |                                                                                                |
|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| <br>* Disable | <br>Enable |
|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|

## Codabar Start Character/end Character Transmission

Read the following setting barcode to set whether the Codabar start character/end character is transmitted.

|                                                                                                |                                                                                                  |
|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| <br>Disable | <br>* Enable |
|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|

## Codabar Start Character/end Character Format

Read the following setting barcode to set the Codabar start character/end character format.

|                                                                                   |                                                                                    |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|  |  |
| * Ordinary ABCD Format                                                            | ABCD/TN*E Format                                                                   |

## Codabar Start Character/end Character Case

Read the following setting barcode to set whether the Codabar start character/end character is uppercase or lowercase.

|                                                                                    |                                                                                     |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |
| *uppercase                                                                         | Lower Case                                                                          |

## Codabar Minimum Length

There are two methods for setting the minimum length of Codabar. The first method requires the user to generate a QR code, which tends to be set by more users and is more flexible. The second method can scan the setting barcode in this manual according to the steps.

Method one:

Codabar minimum length setting barcode content format: >!000156XX. XX is a setting variable, with a decimal range of 0-255.

For example: if the minimum length of Codabar is set to 2, the setting barcode content is: >!0001562.

For example: if the minimum length of Codabar is set to 12, the setting barcode content is: >!00015612.

Method two:

Scan the “Codabar Minimum Length” setting barcode



Codabar Minimum Length

Scan the “Digital Setup Code” . For example, if the minimum length is 2 digits, scan 2; if the minimum length is 12 digits, scan 1,2

Scan the “OK” setting barcode to end the setting



Sure

## Codabar Maximum Length

There are two methods for setting the maximum length of Codabar. Method one requires the user to generate a QR code, which is more flexible for more users. Method two can scan the setting barcode in this manual according to the steps.

Method one:

Codabar maximum length setting barcode content format: >!000157XX. XX is a setting variable, with a decimal range of 0-255.

For example: if the maximum length of Codabar is set to 9, the setting barcode content is: >!0001579.

For example: if the maximum length of Codabar is set to 20, the setting barcode content is: >!00015720.

Method two:

Scan the “Codabar Maximum Length” setting barcode



Codabar Maximum Length

Scan the “Digital Setup Code” . For example, if the maximum length is 9 digits, scan 9; if the maximum length is 20 digits, scan 2,0

Scan the “OK” setting barcode to end the setting



Sure

## Code 93

### Code 93 Switch

Read the following setting barcode to enable/disable reading of Code 93 barcodes.



Disable



\* Enable

### Code 93 Minimum Length

There are two methods for setting the minimum length of Code 93. The first method requires the user to generate a QR code, which tends to be set by more users and is more flexible. The second method can scan the setting barcode in this manual according to the steps.

Method one:

Code 93 Minimum length setting barcode content format: >!000163XX. XX is a setting variable, with a decimal range of 0-255.

For example: Code 93 minimum length is set to 2, then the setting barcode content is: >!0001632.

For example: Code 93 minimum length is set to 12, then the setting barcode content is: >!00016312.

Method two:

Scan the “Code 93 Minimum Length” setting barcode



Code 93 Minimum Length

Scan the “Digital Setup Code” . For example, if the minimum length is 2 digits, scan 2; if the minimum length is 12 digits, scan 1,2

Scan the “OK” setting barcode to end the setting



Sure

### Code 93 Maximum Length

There are two methods for setting the maximum length of Code 93. Method one requires the user to generate a QR code, which is more flexible for more users. Method two can scan the setting barcode in this manual according to the steps.

Method one:

Code 93 Maximum length setting barcode content format: >!000164XX. XX is a setting variable, with a decimal range of 0-255.

For example: Code 93 maximum length is set to 9, then the setting barcode content is: >!0001649.

For example: if the maximum length of Code 93 is set to 20, the setting barcode content is: >!00016420.

Method two:

Scan the “Code 93 Maximum Length” setting barcode



Code 93 Maximum Length

Scan the “Digital Setup Code” . For example, if the maximum length is 9 digits, scan 9; if the maximum length is 20 digits, scan 2,0

Scan the “OK” setting barcode to end the setting



Sure

## Code 11

### Code 11 Switch

Read the following setting barcode to enable/disable reading of Code 11 barcodes.

|                                                                                                |                                                                                              |
|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| <br>* Disable | <br>Enable |
|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|

### Code 11 Check Digit Verification

Read the following setting barcode to set whether the Code 11 check digit is verified.

|                                                                                                         |                                                                                                       |
|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <br>* No Verification | <br>1 Bit Checksum |
| <br>2 Digit Checksum |                                                                                                       |

### Code 11 Check Digit Transmission

Read the following setting barcode to set whether the Code 11 check digit is transmitted.

**Note**

To enable transmission check digit, please enable the check digit verification function first.



\* Disable



Enable

### Code 11 Minimum Length

There are two methods for setting the minimum length of Code 11. The first method requires the user to generate a QR code, which tends to be set by more users and is more flexible. The second method can scan the setting barcode in this manual according to the steps.

Method one:

Code 11 Minimum length setting barcode content format: >!000173XX. XX is a setting variable with a decimal range of 0-255.

For example: if the minimum length of Code 11 is set to 2, the setting barcode content is: >!0001732.

For example: if the minimum length of Code 11 is set to 12, the setting barcode content is: >!00017312.

Method two:

Scan the “Code 11 Minimum Length” setting barcode



Code 11 Minimum Length

Scan the “Digital Setup Code” . For example, if the minimum length is 2 digits, scan 2; if the minimum length is 12 digits, scan 1,2

Scan the “OK” setting barcode to end the setting



Sure

## Code 11 Maximum Length

There are two methods for setting the maximum length of Code 11. The first method requires the user to generate a QR code, which tends to be set by more users and is more flexible. The second method can scan the setting barcode in this manual according to the steps.

Method one:

Code 11 Maximum length setting barcode content format: >!000174XX. XX is a setting variable with a decimal range of 0-255.

For example: if the maximum length of Code 11 is set to 9, the setting barcode content is: >!0001749.

For example: if the maximum length of Code 11 is set to 20, the setting barcode content is: >!00017420.

Method two:

Scan the “Code 11 Maximum Length” setting barcode



Code 11 Maximum Length

Scan the “Digital Setup Code” . For example, if the maximum length is 9 digits, scan 9; if the maximum length is 20 digits, scan 2,0

Scan the “OK” setting barcode to end the setting



Sure

## MSI Plessey

### MSI Plessey Switch

Read the following setting barcode to enable/disable MSI Plessey barcode reading.



\* Disable



Enable

### MSI Plessey Check Digit Verification

Read the following setting barcode to set whether the MSI Plessey check digit is verified.



\* MOD10 Single Character Check



MOD10/MOD10 Double Character Check



MOD10/MOD11 Double Character Check

## MSI Plessey Check Digit Transmission

Read the following setting barcode to set whether the MSI Plessey check digit is transmitted.

### Note

To enable transmission check digit, please enable the check digit verification function first.



\* Disable



Enable

## MSI Plessey Minimum Length

There are two methods for setting the minimum length of MSI Plessey. The first method requires the user to generate a QR code, which tends to be set by more users and is more flexible. The second method can scan the setting barcode in this manual according to the steps.

Method one:

MSI Plessey minimum length setting barcode content format: >!000193XX. XX is setting variable, decimal range 0-255.

For example: MSI Plessey minimum length is set to 2, then the setting barcode content is: >!0001932.

For example: MSI Plessey's minimum length is set to 12, then the setting barcode content is: >!00019312.

Method two:

Scan the “MSI Plessey Minimum Length” setup code



MSI Plessey Minimum Length

Scan the “Digital Setup Code” . For example, if the minimum length is 2 digits, scan 2; if the minimum length is 12 digits, scan 1,2

Scan the “OK” setting barcode to end the setting



Sure

## MSI Plessey Max Length

There are two methods for setting the maximum length of MSI Plessey. The first method requires the user to generate a QR code, which tends to be set by more users and is more flexible. The second method can scan the setting barcode in this manual according to the steps.

Method one:

MSI Plessey maximum length setting barcode content format: >!000194XX. XX is setting variable, decimal range 0-255.

For example: if the maximum length of MSI Plessey is set to 9, then the setting barcode content is: >!0001949.

For example: if the maximum length of MSI Plessey is set to 20, the setting barcode content is: >!00019420.

Method two:

Scan the “MSI Plessey Maximum Length” setup code



MSI Plessey Max Length

Scan the “Digital Setup Code” . For example, if the maximum length is 9 digits, scan 9; if the maximum length is 20 digits, scan 2,0

Scan the “OK” setting barcode to end the setting



Sure

## GS1 DataBar/RSS

Read the following setting barcode to enable/disable reading of GS1 DataBar barcodes.

|                                                                                   |                                                                                    |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|  |  |
| * Disable                                                                         | Enable                                                                             |

## Composite Code

Read the following setting barcode to enable/disable reading of Composite Code barcodes.

### Note

To enable Composite Code, please enable a separate corresponding code first.

|                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |
| * Disable                                                                           | Enable                                                                               |

## TELEPEN

Read the following setting barcode to enable/disable TELEPEN barcode reading.

|                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |
| * Disable                                                                           | Enable                                                                               |

## TRIOPTIC

Read the following setting barcode to enable/disable TRIOPTIC barcode reading.

|                                                                                   |                                                                                    |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|  |  |
| * Disable                                                                         | Enable                                                                             |

## HONG KONG 2 OF 5/CHINA POST

Read the following setting barcode to enable/disable reading of the HONG KONG 2 of 5 barcode.

|                                                                                    |                                                                                     |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |
| * Disable                                                                          | Enable                                                                              |

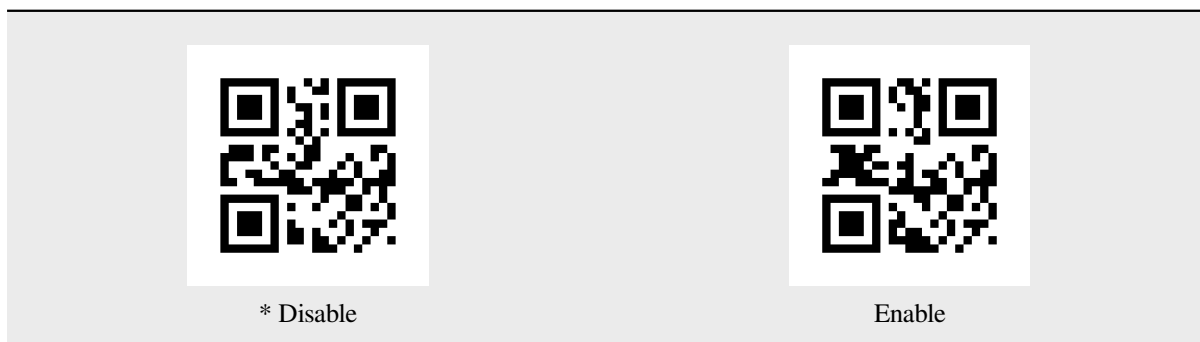
## Korea Post/Korea Post

Read the following setting barcode to enable/disable reading of KOREA POST/Korea Post barcodes. The barcode length must be 6 bytes.

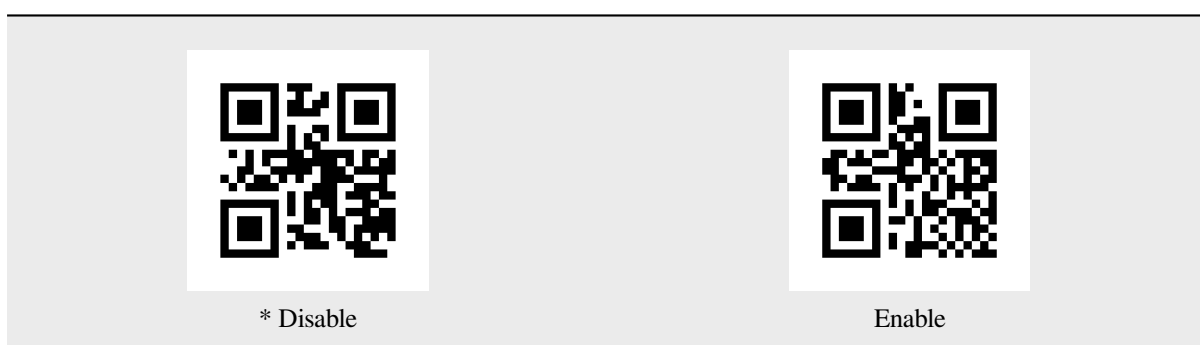
|                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |
| * Disable                                                                           | Enable                                                                               |

## KOREA POST Check Digit Transmission

Read the following setting barcode to set whether the KOREA POST check digit is transmitted.



## KOREA POST Data Reversed



## PDF417

### PDF417 Switch

Read the following setting barcode to enable/disable reading of PDF417 barcodes.



## PDF417 Forward And Reverse Recognition

Read the following setting barcode to set whether the forward/reverse PDF417 code can be read.



\* Read Only Positive Colors



Read Only Reverse Color



Readable In Both Positive And Negative Colors

## QR Code

### QR Switch

Read the following setting barcode to enable/disable reading of QR barcodes.



Disable



\* Enable

## QR Code Front And Back Color Reading

Read the following setting barcode to set whether the front/reverse color QR Code can be read.

|                                                                                                                                        |                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
|  <p>* Read Only Positive Colors</p>                   |  <p>Read Only Reverse Color</p>                     |
|  <p>Readable In Both Positive And Negative Colors</p> |  <p>Read Only Normal Color (reverse Color Code)</p> |

### QR Code Mirror Reading

Read the following setting barcode to set whether the image QR Code can be read.

|                                                                                                    |                                                                                                      |
|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
|  <p>Disable</p> |  <p>* Enable</p> |
|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|

### Data Matrix (DM)

#### Data Matrix Switch

Read the following setting barcode to enable/disable reading of Data Matrix barcodes.

|                                                                                                    |                                                                                                      |
|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
|  <p>Disable</p> |  <p>* Enable</p> |
|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|

## Data Matrix Positive And Negative Color Reading

Read the following setting barcode to set whether the positive/reverse color Data Matrix code can be read.



\* Read Only Positive Colors



Read Only Reverse Color



Readable In Both Positive And Negative Colors

## Data Matrix Image Reading

Read the following setting barcode to set whether the image Data Matrix code can be read.



\* Disable



Enable

## DM ECI Control



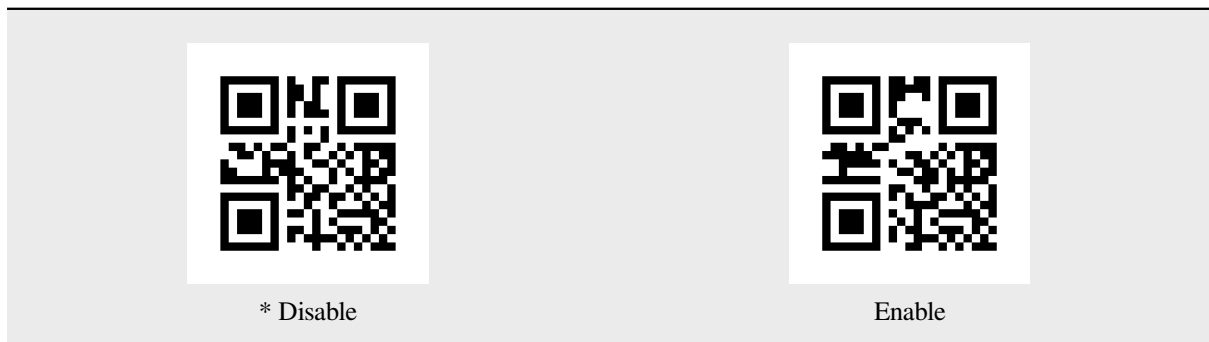
\* Disable



Enable

## Aztec Code

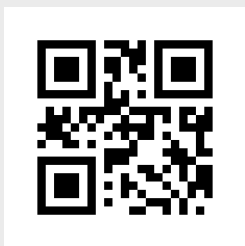
Read the following setting barcode to enable/disable reading of AZTEC CODE barcodes.



## 11.5 Engine setting barcode

### Numeric Setting Barcode

The appendix contains numbers 0-9; letters A-F; cancel; confirm setup codes.



0



1



2



3



4



5



6



7



8



9



A



B

## 12 Appendix

### 12.1 Character Reference Table

#### ASCII Function Key Character Reference Table

##### 0FH

| HEX | CODE | *Config0  | Config3   | Con-fig1 | Con-fig4 | Config2 Win-dows | Config5 Win-dows |
|-----|------|-----------|-----------|----------|----------|------------------|------------------|
| 00H | NUL  | NUL       | NUL       | Ctrl+@   | Ctrl+@   | ALT+000          | ALT+000          |
| 01H | SOH  | NUL       | NUL       | Ctrl+A   | Ctrl+A   | ALT+001          | ALT+001          |
| 02H | STX  | NUL       | NUL       | Ctrl+B   | Ctrl+B   | ALT+002          | ALT+002          |
| 03H | ETX  | NUL       | NUL       | Ctrl+C   | Ctrl+C   | ALT+003          | ALT+003          |
| 04H | EOT  | NUL       | NUL       | Ctrl+D   | Ctrl+D   | ALT+004          | ALT+004          |
| 05H | ENQ  | NUL       | NUL       | Ctrl+E   | Ctrl+E   | ALT+005          | ALT+005          |
| 06H | ACK  | NUL       | NUL       | Ctrl+F   | Ctrl+F   | ALT+006          | ALT+006          |
| 07H | BEL  | NUL       | NUL       | Ctrl+G   | Ctrl+G   | ALT+007          | ALT+007          |
| 08H | BS   | Backspace | Backspace | Ctrl+H   | Ctrl+H   | ALT+008          | ALT+008          |
| 09H | HT   | TAB       | TAB       | TAB      | Ctrl+I   | ALT+009          | ALT+009          |
| 0AH | LF   | NUL       | Enter     | Ctrl+J   | Ctrl+J   | ALT+010          | ALT+010          |
| 0BH | VT   | TAB       | TAB       | Ctrl+K   | Ctrl+K   | ALT+011          | ALT+011          |
| 0CH | FF   | NUL       | NUL       | Ctrl+L   | Ctrl+L   | ALT+012          | ALT+012          |
| 0DH | CR   | Enter     | Enter     | Enter    | Ctrl+M   | Enter            | ALT+013          |
| 0EH | SO   | NUL       | NUL       | Ctrl+N   | Ctrl+N   | ALT+014          | ALT+014          |
| 0FH | SI   | NUL       | NUL       | Ctrl+O   | Ctrl+O   | ALT+015          | ALT+015          |

##### 1FH

| HEX | CODE | *Config0/3 | Config1/4 | Config2/5 Windows |
|-----|------|------------|-----------|-------------------|
| 10H | DLE  | NUL        | Ctrl+P    | ALT+016           |
| 11H | DC1  | NUL        | Ctrl+Q    | ALT+017           |
| 12H | DC2  | NUL        | Ctrl+R    | ALT+018           |
| 13H | DC3  | NUL        | Ctrl+S    | ALT+019           |
| 14H | DC4  | NUL        | Ctrl+T    | ALT+020           |
| 15H | NAK  | NUL        | Ctrl+U    | ALT+021           |
| 16H | SYN  | NUL        | Ctrl+V    | ALT+022           |
| 17H | ETB  | NUL        | Ctrl+W    | ALT+023           |
| 18H | CAN  | NUL        | Ctrl+X    | ALT+024           |
| 19H | EM   | NUL        | Ctrl+Y    | ALT+025           |
| 1AH | SUB  | NUL        | Ctrl+Z    | ALT+026           |
| 1BH | ESC  | ESC        | Ctrl+[    | ALT+027           |
| 1CH | FS   | NUL        | Ctrl+\    | ALT+028           |
| 1DH | GS   | NUL        | Ctrl+]    | ALT+029           |
| 1EH | RS   | NUL        | Ctrl+^    | ALT+030           |
| 1FH | US   | NUL        | Ctrl+-    | ALT+031           |

**Note**

On Mac systems, the Ctrl key corresponds to the Command key.

**ASCII Character Reference Table****5FH**

| HEX | ASCII | HEX | ASCII | HEX | ASCII | HEX | ASCII |
|-----|-------|-----|-------|-----|-------|-----|-------|
| 20H | Space | 30H | 0     | 40H | @     | 50H | P     |
| 21H | !     | 31H | 1     | 41H | A     | 51H | Q     |
| 22H | "     | 32H | 2     | 42H | B     | 52H | R     |
| 23H | #     | 33H | 3     | 43H | C     | 53H | S     |
| 24H | \$    | 34H | 4     | 44H | D     | 54H | T     |
| 25H | %     | 35H | 5     | 45H | E     | 55H | U     |
| 26H | &     | 36H | 6     | 46H | F     | 56H | V     |
| 27H | '     | 37H | 7     | 47H | G     | 57H | W     |
| 28H | (     | 38H | 8     | 48H | H     | 58H | X     |
| 29H | )     | 39H | 9     | 49H | I     | 59H | Y     |
| 2AH | *     | 3AH | :     | 4AH | J     | 5AH | Z     |
| 2BH | +     | 3BH | ;     | 4BH | K     | 5BH | [     |
| 2CH | ,     | 3CH | <     | 4CH | L     | 5CH | \     |
| 2DH | -     | 3DH | =     | 4DH | M     | 5DH | ]     |
| 2EH | .     | 3EH | >     | 4EH | N     | 5EH | ^     |
| 2FH | /     | 3FH | ?     | 4FH | O     | 5FH | _     |

**9DH**

| HEX | ASCII | HEX | ASCII | HEX | Fun Key | HEX | Fun Key      |
|-----|-------|-----|-------|-----|---------|-----|--------------|
| 60H | `     | 70H | p     | 80H | F1      | 90H | End          |
| 61H | a     | 71H | q     | 81H | F2      | 91H | Page Down    |
| 62H | b     | 72H | r     | 82H | F3      | 92H | Right Arrow  |
| 63H | c     | 73H | s     | 83H | F4      | 93H | Left Arrow   |
| 64H | d     | 74H | t     | 84H | F5      | 94H | Down Arrow   |
| 65H | e     | 75H | u     | 85H | F6      | 95H | Up Arrow     |
| 66H | f     | 76H | v     | 86H | F7      | 96H | Print Screen |
| 67H | g     | 77H | w     | 87H | F8      | 97H | *Ctrl        |
| 68H | h     | 78H | x     | 88H | F9      | 98H | *Shift       |
| 69H | i     | 79H | y     | 89H | F10     | 99H | *Left Alt    |
| 6AH | j     | 7AH | z     | 8AH | F11     | 9AH | *Right Alt   |
| 6BH | k     | 7BH | {     | 8BH | F12     | 9BH | 1s Delay     |
| 6CH | l     | 7CH |       | 8CH | Insert  | 9CH | *Win-GUI     |
| 6DH | m     | 7DH | }     | 8DH | Home    | 9DH | *Keystroke   |
| 6EH | n     | 7EH | ~     | 8EH | Page Up |     |              |
| 6FH | o     | 7FH | DEL   | 8FH | Delete  |     |              |

 **Note**

When Ctrl, Shift, Alt, GUI are set as prefix or suffix, they will be output in combination with the next character (not supported when set to ALT, TH keyboard). The character after Keystroke is directly output as the key value.