
Platform OEM User Manual

Release v1.0.0

2026-06-27

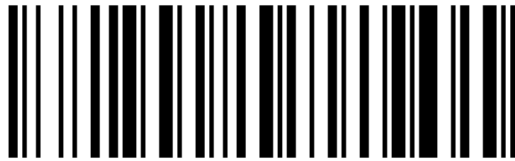
Contents

1	System Settings	4
1.1	Read firmware version	4
1.2	Restore Factory Defaults	4
1.3	working mode	4
2	Power management	6
2.1	Read sleep time	6
2.2	Set sleep time	6
2.3	Get scanner battery level	8
3	Feedback Indicators	8
3.1	Buzzer control	8
3.2	Vibration motor control	9
3.3	Buzzer sound definition	10
3.4	Indicator definition	10
4	wired mode	10
4.1	USB transfer method	10
4.2	USB keyboard transfer speed	11
4.3	USB HID multi-key send settings	12
5	wireless mode	13
5.1	Read Interface Settings	13
5.2	Wireless transmission method	13
5.3	2.4G pairing	13
5.4	Receiver working mode	14
5.5	2.4G transmission cache	16
6	Bluetooth Mode	16
6.1	Read Interface Settings	16
6.2	Bluetooth Transmission Mode	16
6.3	Bluetooth Operating Mode	17
6.4	Change Bluetooth Name	18
6.5	Clear Bluetooth HID Pairing	18
6.6	System Keyboard Functions	18
6.7	Switch between Bluetooth and 2.4G by pressing and holding for 8 seconds	19
6.8	Bluetooth keyboard transmission speed	20
6.9	Bluetooth connection status non-sleep setting	21
7	Keyboard Settings	21
7.1	HID Keyboard General Setting	21
7.2	Keyboard language settings	28
8	Keyboard Language	28
8.1	Read the current keyboard layout	28
9	Data Editing	35
9.1	Standard Data Editing Settings	35
9.2	Extended Data Editing Settings	41
9.3	Terminal character settings	43

9.4 GS1 AI field bracket settings	44
10 Scan Mode	46
10.1 Barcode Decode Mode	46
11 Module Settings	48
11.1 Device function settings	48
11.2 Reading and trigger settings	50
11.3 Engine Code ID	58
11.4 Engine output format	61
11.5 Barcode Settings	64
11.6 Engine setting barcode	129
12 Appendix	131
12.1 Character Reference Table	131

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” .



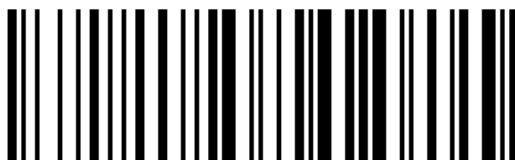
* Normal mode



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



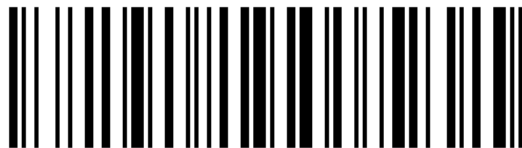
Sleep after 10 minutes



Sleep after 30 minutes



Sleep after 1 hour



Sleep after 2 hours



never sleep

2.3 Get scanner battery level



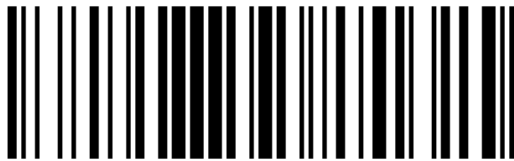
Get battery level

3 Feedback Indicators

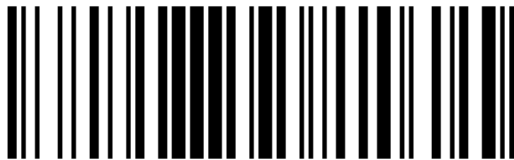
3.1 Buzzer control



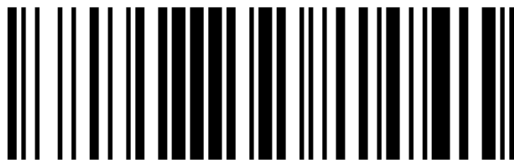
mute



* high volume



medium volume



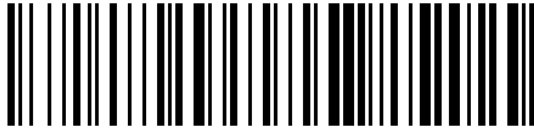
low volume



* high pitch



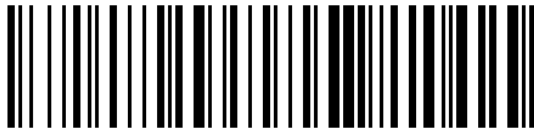
low pitch



* 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

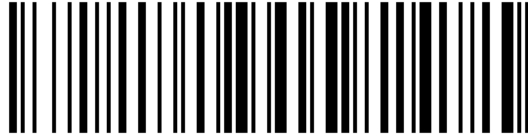
Note

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



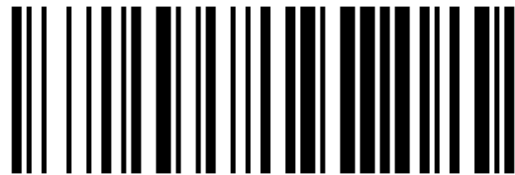
medium speed



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

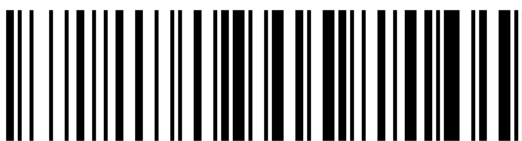


Current Interface Settings

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

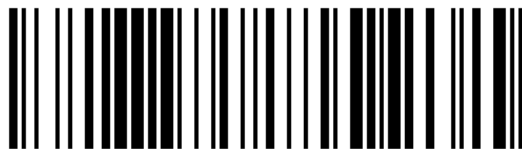
5.4 Receiver working mode

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

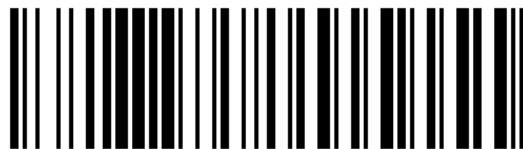
This command is only valid in wireless 2.4G mode and the receiver is connected normally.



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.



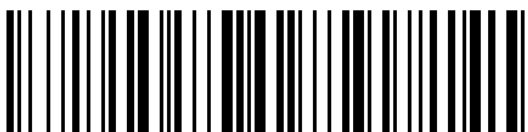
Bluetooth HID Keyboard (Default)



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

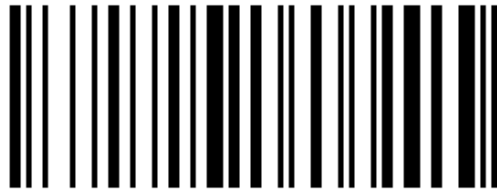
iOS system pop-up keyboard function



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

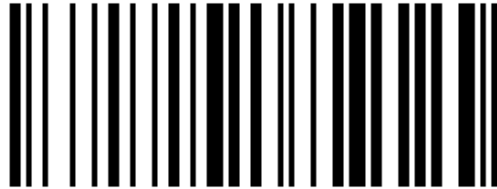


Pop up iOS keyboard switch after sending

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.

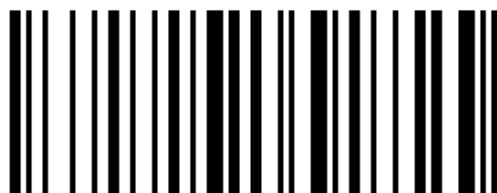


Windows Caps Lock detection switch

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

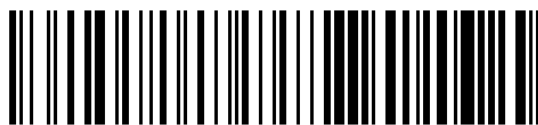
6.8 Bluetooth keyboard transmission speed

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



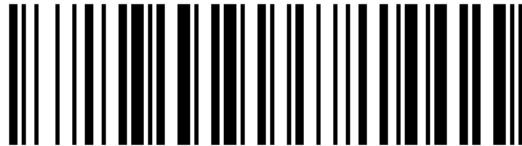
normal



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



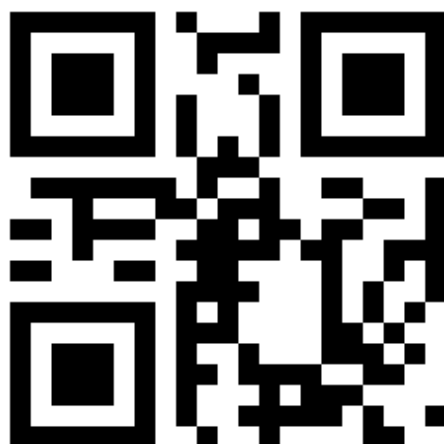
Num Lock on

*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.



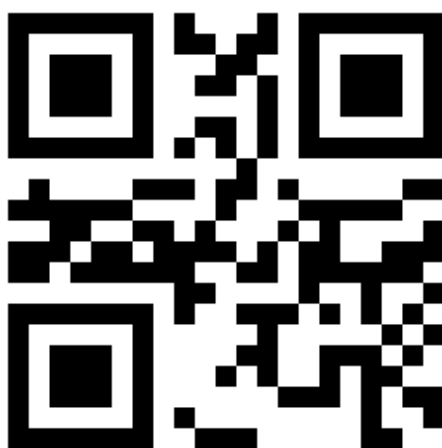
Read the current character set settings



automatic



GBK / BIG5 / HANGUL / SJIS



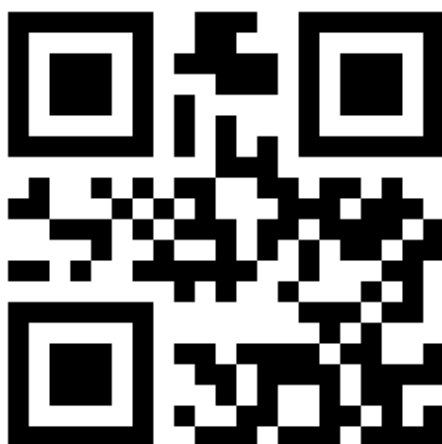
ISO/IEC 8859



UTF8 (Word)



UTF8 (Txt)



Normal mode

illustrate:

model	Applicable scenarios	Code scan engine 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”

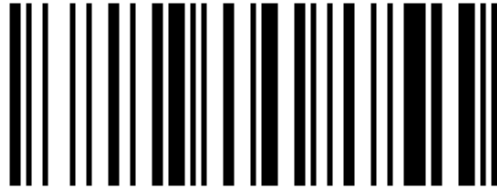
7.2 Keyboard language settings

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



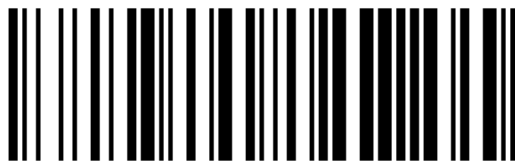
Swedish keyboard

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



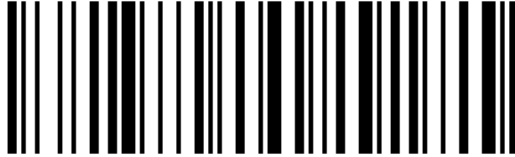
Hide Leading Characters



Hide Middle Section Start Position



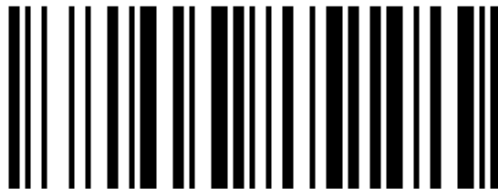
Hide Middle Section Length



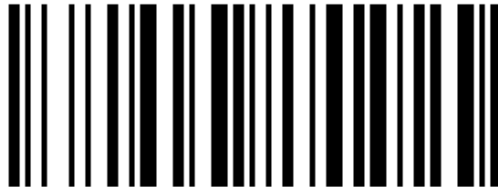
Hide Trailing Characters

Numeric Setup Codes

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



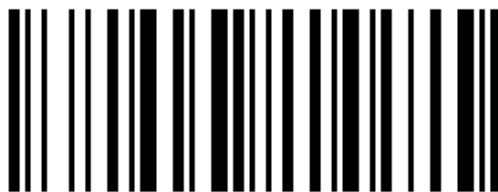
Numeric Setup Code 0



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



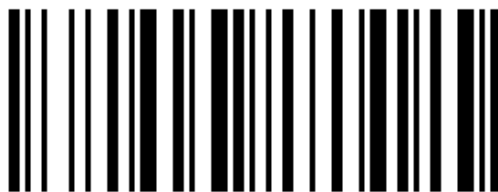
Numeric Setup Code C



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



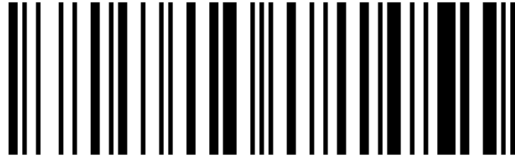
Allow Prefix Output



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.

ll

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 ≤ 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

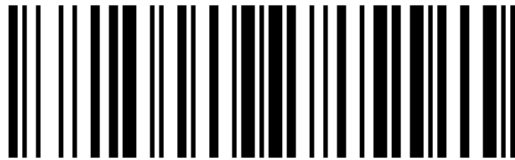
Example

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

9.3 Terminal character settings

Note

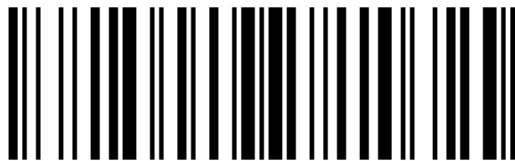
This terminal character is independent of the scan engine suffix and wireless suffix, which facilitates quick setting when the scan engine has no suffix.



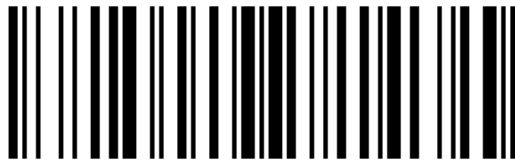
None (Default)



Carriage Return CR



Tab TAB



Carriage Return + Line Feed CRLF



Line Feed LF

9.4 GS1 AI field bracket settings

Note

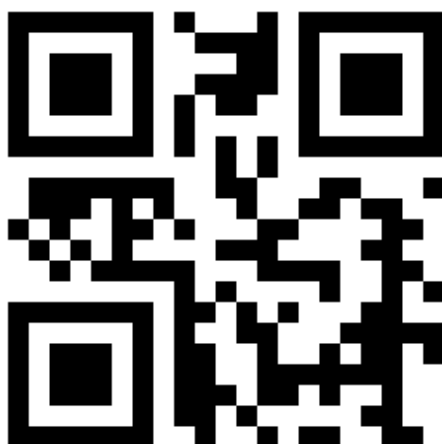
Only some AI fields are applicable and require special version support.



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

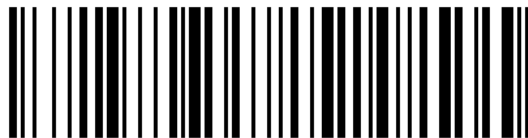
Continuous Scan Mode is suitable for high-volume scanning workflows. Press the Trigger button once to start or stop scanning.



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 Device function settings

Lighting And Aiming

Illumination

The lighting can provide auxiliary lighting for shooting and reading, and the beam shines on the reading target, improving the reading performance and the ability to adapt to weak ambient light. Users can set it to one of the following states according to the application environment:

Normal lighting (default setting): The lighting lights up when shooting and reading, and turns off at other times;

The lighting is always on: the lighting will continue to glow after the scan engine is turned on;

No lighting: The light does not come on under any circumstances.



AIM

The projected aiming beam helps users find the optimal reading distance when shooting for reading. According to the application environment, users can

Choose any of the modes below.

Aiming Normal (default setting): The scan engine only projects the aiming beam when shooting and reading;

Aiming always on: After the scan engine is powered on, it will continue to project the aiming beam;

No Aiming: The aiming beam is extinguished under any circumstances.



11.2 Reading and trigger settings

reading mode

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.



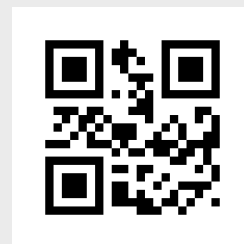
Auto-Sensing Mode

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.



* High Sensitivity



Medium Sensitivity



Low Sensitivity

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



100ms



200ms



*300ms



400ms



500ms



1000ms

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

 0ms (infinite Time)	 1000ms
 2000ms	 3000ms
 *5000ms	 10000ms

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

 * 0ms	 100ms
 300ms	 500ms
 1000ms	 3000ms
 5000ms	 10000ms
 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

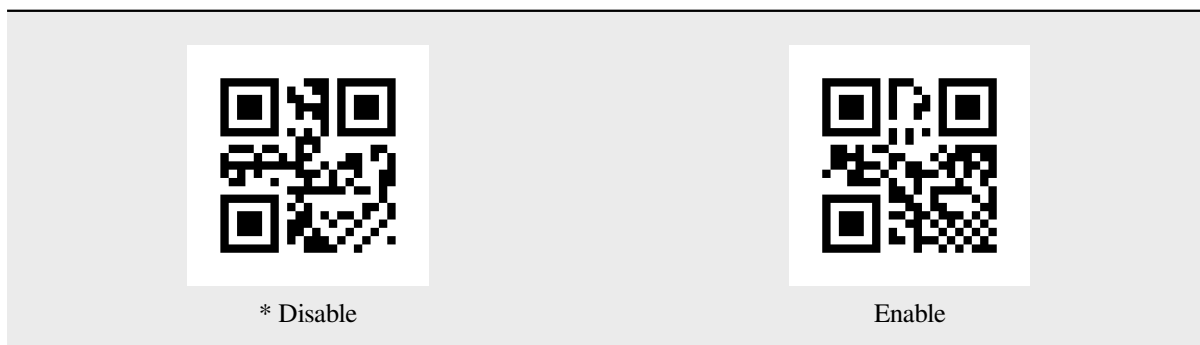


11.3 Engine Code ID

Barcode ID

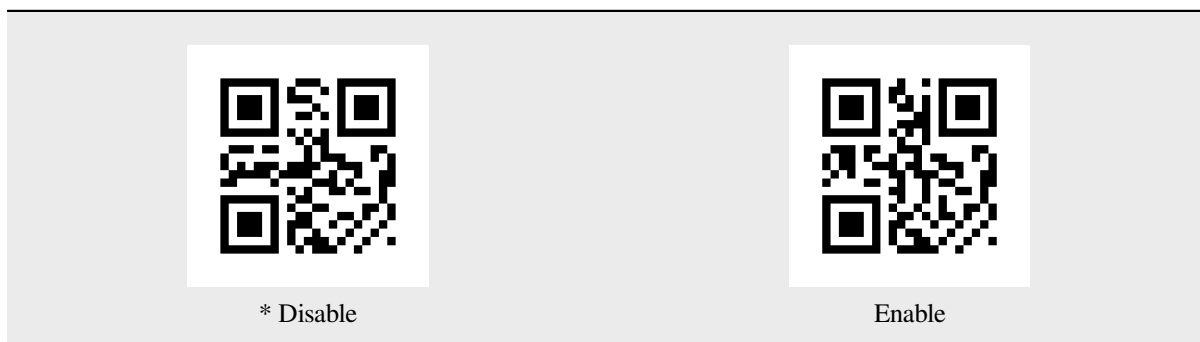
AIM ID

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 [AIM ID](#). The code reading module 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 the specific definition, see [Code ID](#)



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

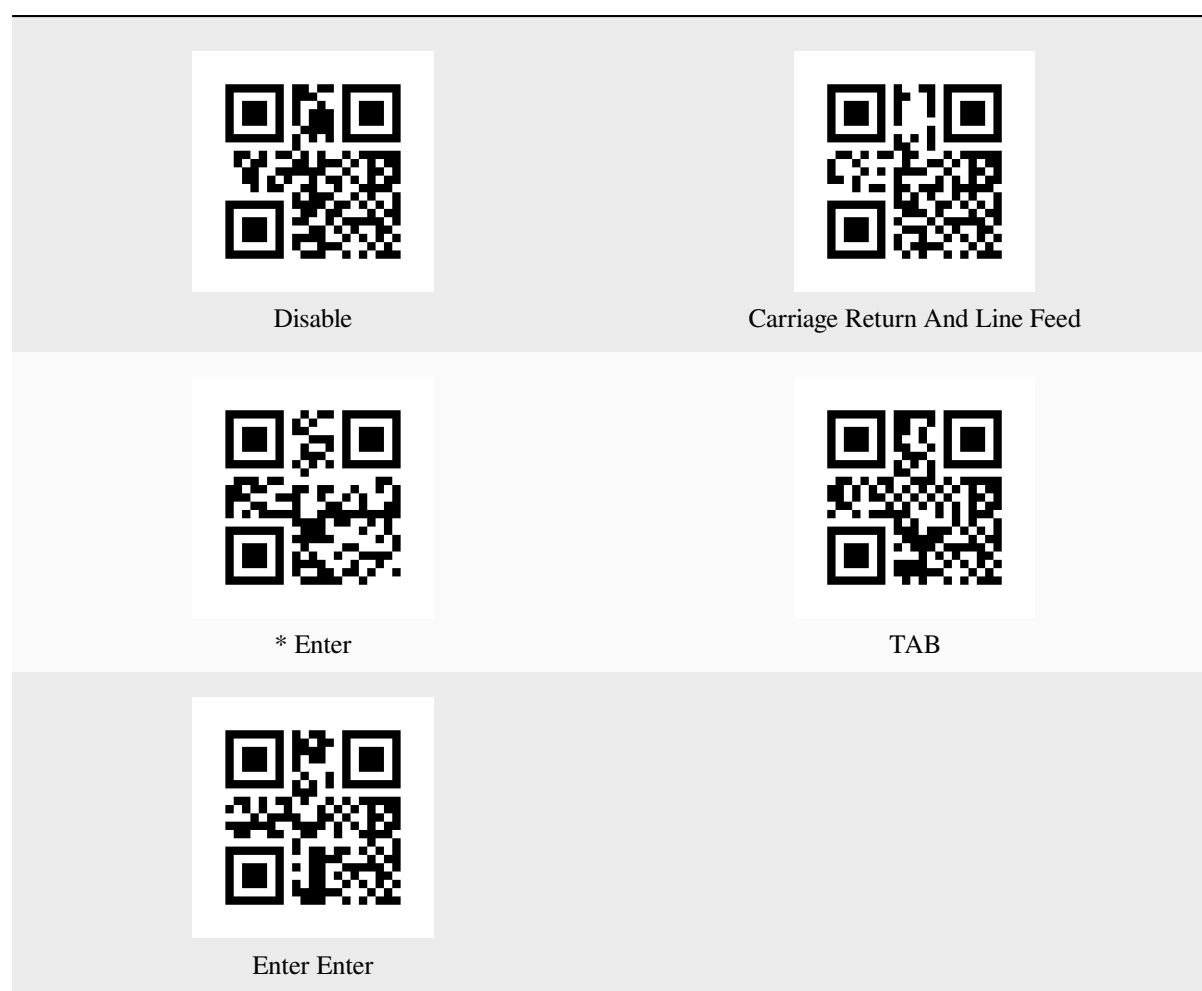
Table 3 – continued from previous page

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	

11.4 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.



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

11.5 Barcode Settings

Barcode Global Operations

Global Switch



Disable



Enable



* Default

1D Code Global Switch



Disable



Enable



* Default

QR Code Global Switch



Barcode Security Level

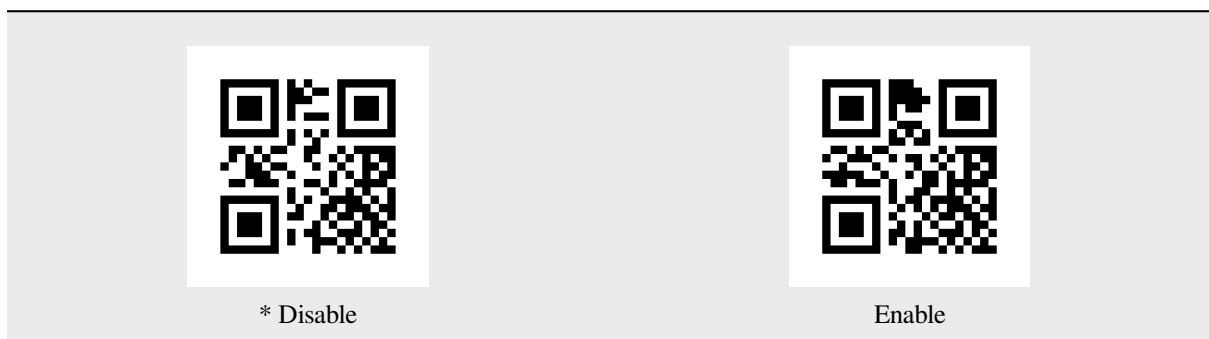
In order to solve the problem of possible code errors in barcode reading under extreme circumstances, 5 security levels are provided. The higher the level, the worse the reading experience will be.



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

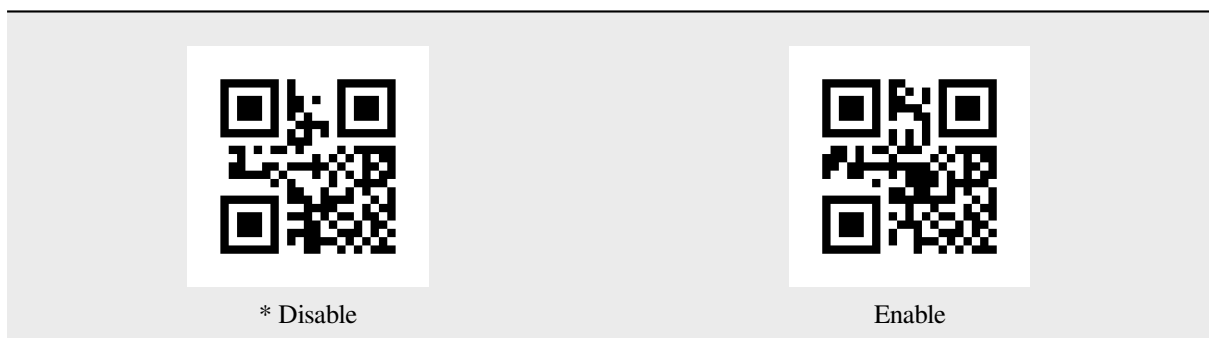


Global Invert Color Switch

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.

 * Disable	 Enable
--	--

Codabar Reverse Color Switch

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

 * Disable	 Enable
---	---

Code 93 Reverse Color Switch

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

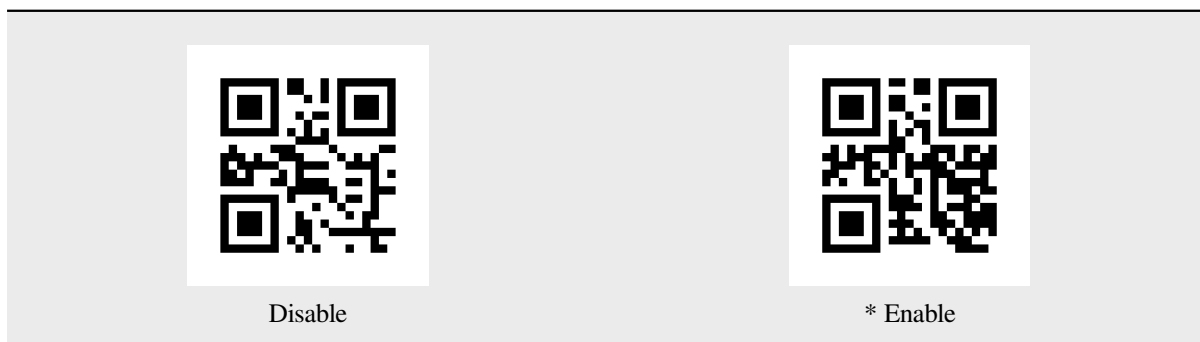
 * Disable	 Enable
--	--

L Series - Symbology Enable/Disable Configuration

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 1: Generate setup code

Code 128 minimum length setting code content format: >!000012XX.

XX

Set variable, decimal range 0–255.

i Example

- Code 128 minimum length is set to 2, then the setting code content is: >!0000122.
- The minimum length of Code 128 is set to 12, then the setting code content is: >!00001212.

Method 2: Scan the manual setting code

Scan the “Code 128 Minimum Length” setting barcode



Code 128 Minimum Length

Scan the “Digital Setup Code” .

i Example

- Minimum length 2 digits, scan 2.
- Minimum length 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 1: Generate setup code

Code 128 Maximum length setting code content format: >!000013XX.

XX

Set variable, decimal range 0–255.

Example

- The maximum length of Code 128 is set to 9, then the setting code content is: >!0000129.
- The maximum length of Code 128 is set to 20, then the setting code content is: >!00001220.

Method 2: Scan the manual setting code

Scan the “Code 128 Maximum Length” setting barcode



Code 128 Maximum Length

Scan the “Digital Setup Code” .

Example

- The maximum length is 9 digits, scan 9.
- 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 1: Generate setup code

GS1 128 minimum length setting code content format: >!000022XX.

XX

Set variable, decimal range 0–255.

Example

- The minimum length of GS1 128 is set to 2, then the setting code content is: >!00002222.
- The minimum length of GS1 128 is set to 12, then the setting code content is: >!00002212.

Method 2: Scan the manual setting code

Scan the “GS1 128 minimum length” setting barcode



GS1 128 Minimum Length

Scan the “Digital Setup Code” .

Example

- Minimum length 2 digits, scan 2.
- Minimum length 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 1: Generate setup code

GS1 128 maximum length setting code content format: >!000023XX.

XX

Set variable, decimal range 0–255.

Example

- The maximum length of GS1 128 is set to 9, then the setting code content is: >!0000239.
- The maximum length of GS1 128 is set to 20, then the setting code content is: >!00002320.

Method 2: Scan the manual setting code

Scan the “GS1 128 maximum length” setting barcode



GS1 128 Maximum Length

Scan the “Digital Setup Code” .

Example

- The maximum length is 9 digits, scan 9.
- 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.

	
Disable	* Enable

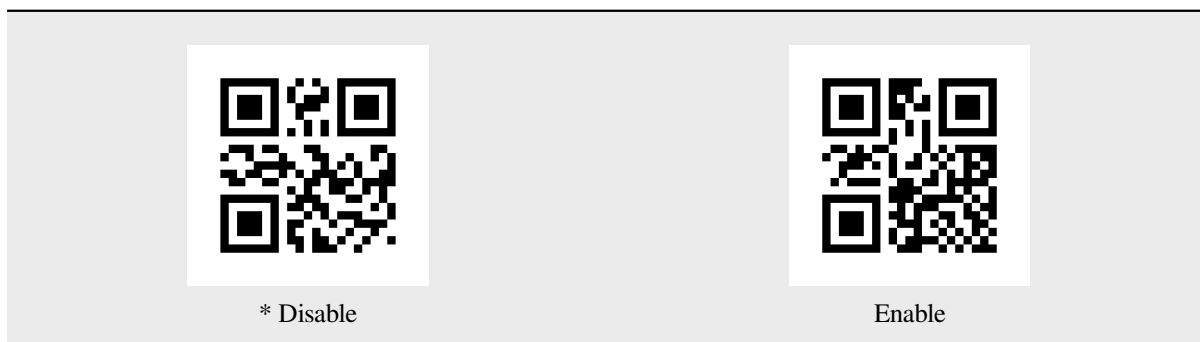
EAN-8 Reads 2-digit Additional Code

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

	
* Disable	Enable

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

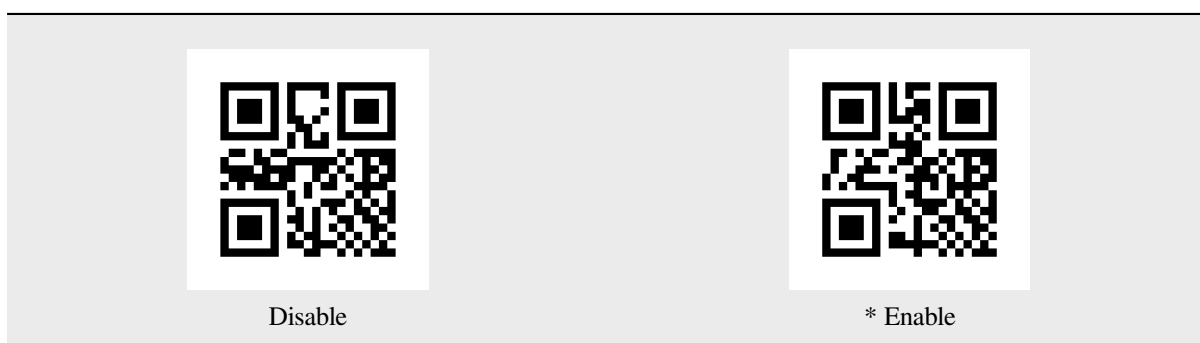
Read the following setting barcode to set whether to read only EAN-8 with additional code.



EAN-13

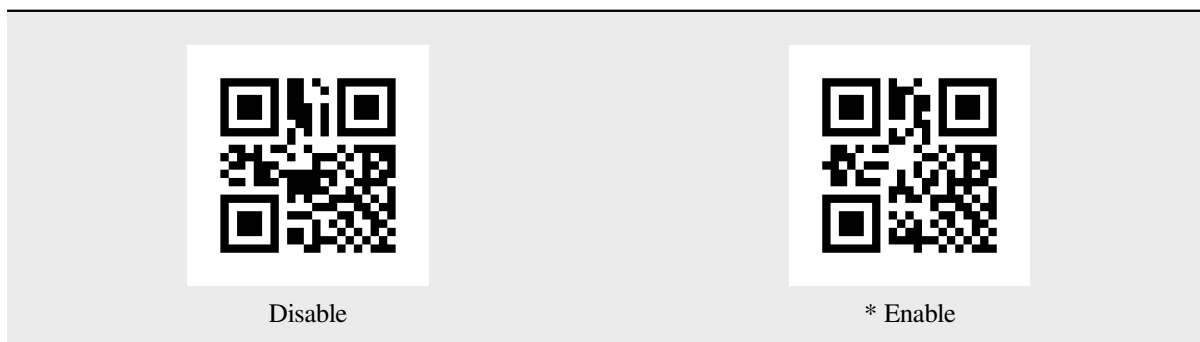
EAN-13 Switch

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



EAN-13 Check Digit Transmission

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



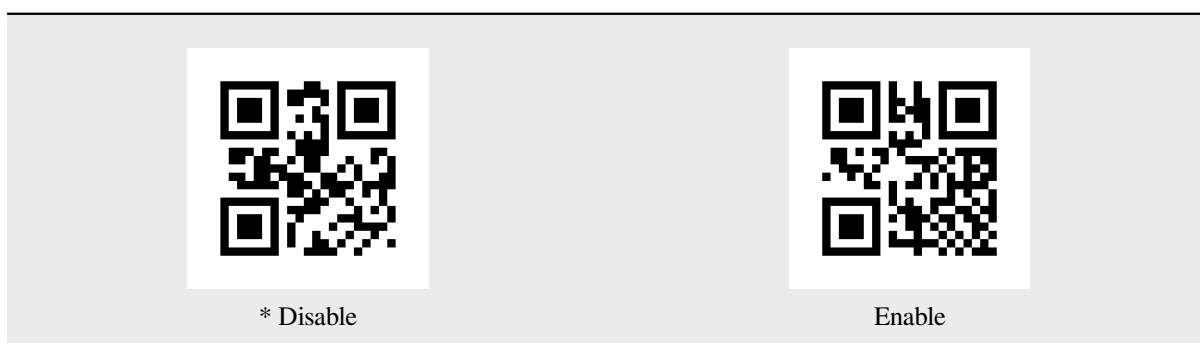
EAN-13 Reads 2-digit Additional Code

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.

 * Disable	 Enable
--	--

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
---	---

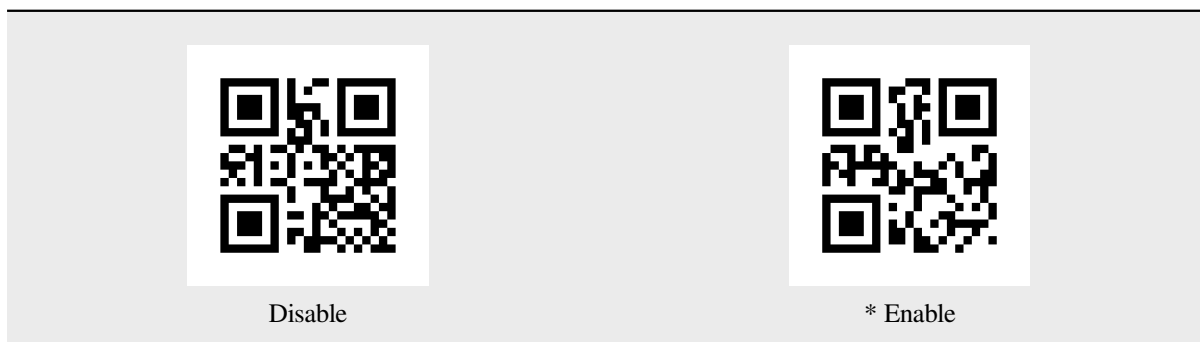
Read Only With Add-on Code UPC-E

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

 * Disable	 Enable
--	--

Transmission system character “0”

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



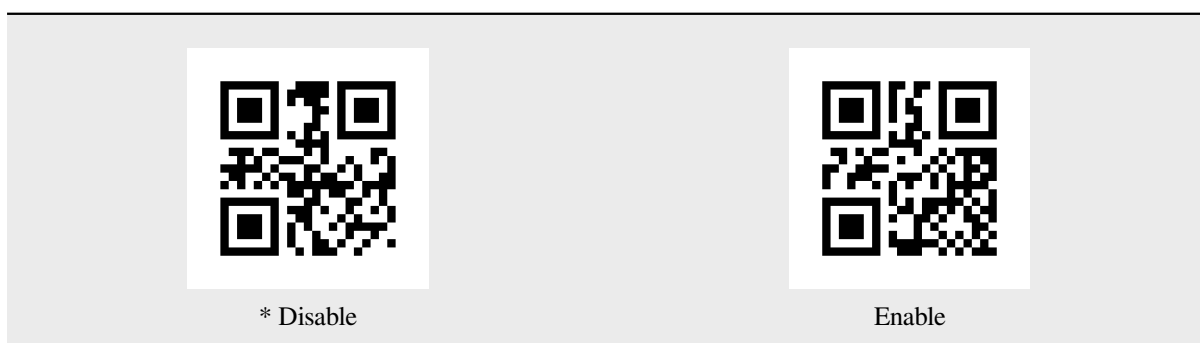
UPC-E To UPC-A

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.



Transmit national character “0”

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

 * Disable	 Enable
--	--

UPC-A

UPC-A Switch

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

 Disable	 * Enable
---	---

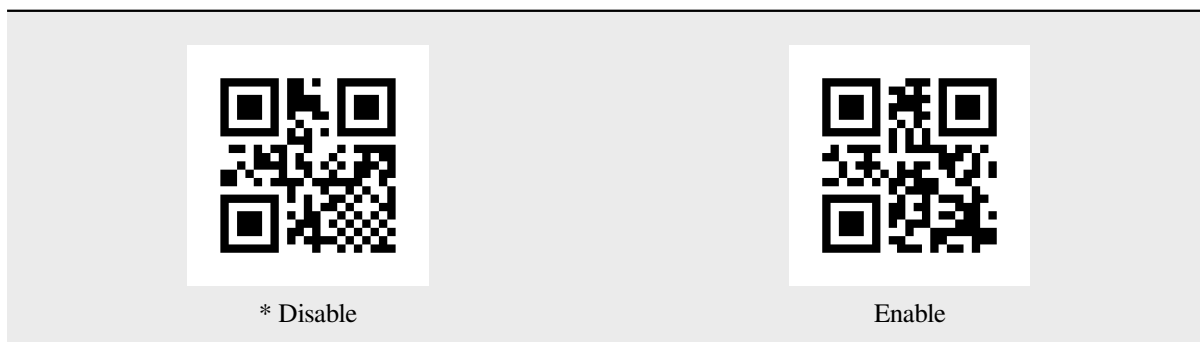
UPC-A Check Digit Transmission

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.



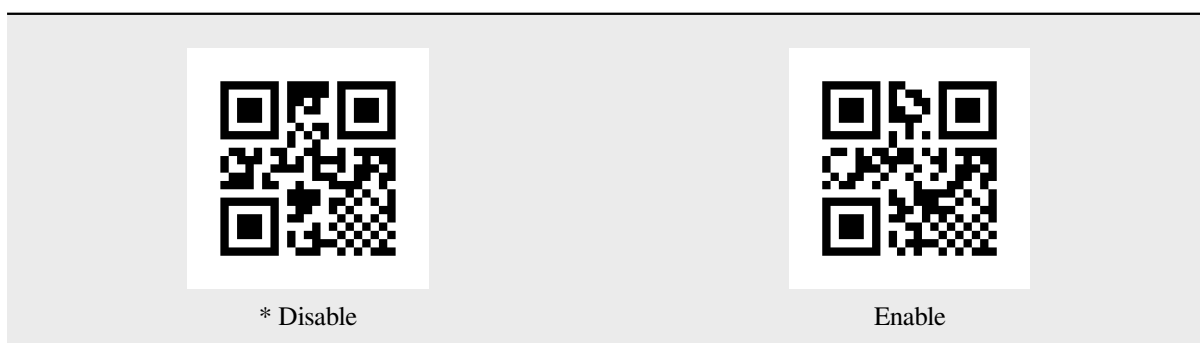
UPC-A Reads 5-digit Additional Code

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



Read Only With Add-on Code UPC-A

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



Transmission system character “0”

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

 Disable	 * 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)

 * Disable	 Enable
---	---

ITF25

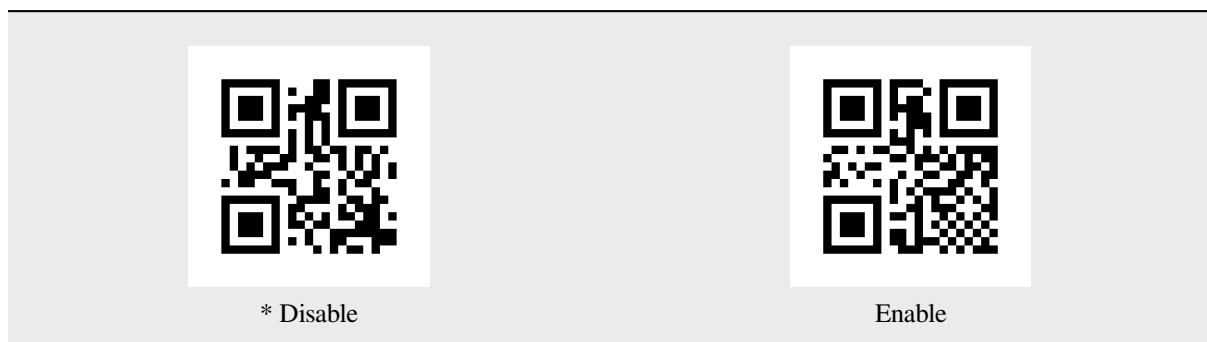
ITF25 Switch

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

 Disable	 * Enable
--	--

ITF25 Check Digit Verification

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



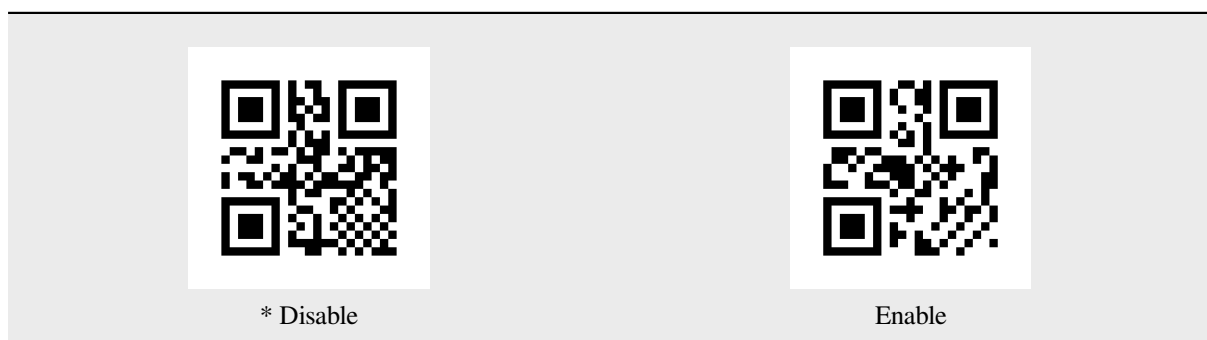
ITF25 Check Digit Transmission

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.



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 1: Generate setup code

ITF25 minimum length setting code content format: >!0000B3XX.

xx

Set variable, decimal range 0–255.



Example

- The minimum length of ITF25 is set to 2, then the setting code content is: >!0000B32.

- The minimum length of ITF25 is set to 12, then the setting code content is: >!0000B312.

Method 2: Scan the manual setting code

Scan the “ITF25 minimum length” setting barcode



ITF25 Minimum Length

Scan the “Digital Setup Code” .

Example

- Minimum length 2 digits, scan 2.
- Minimum length 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 1: Generate setup code

ITF25 maximum length setting code content format: >!0000B4XX.

XX

Set variable, decimal range 0–255.

Example

- The maximum length of ITF25 is set to 9, then the setting code content is: >!0000B49.

- The maximum length of ITF25 is set to 20, then the setting code content is: >!0000B420.

Method 2: Scan the manual setting code

Scan the “ITF25 maximum length” setting barcode



ITF25 Maximum Length

Scan the “Digital Setup Code” .

Example

- The maximum length is 9 digits, scan 9.
- 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.

 * Disable	 Enable
---	---

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.

 * Disable	 Enable
--	--

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 1: Generate setup code

NEC25 minimum length setting code content format: >!000103XX.

xx

Set variable, decimal range 0–255.

Example

- The minimum length of NEC25 is set to 2, then the setting code content is: >!0001032.
- The minimum length of NEC25 is set to 12, then the setting code content is: >!00010312.

Method 2: Scan the manual setting code

Scan the “NEC25 minimum length” setting barcode



NEC25 Minimum Length

Scan the “Digital Setup Code” .

Example

- Minimum length 2 digits, scan 2.
- Minimum length 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 1: Generate setup code

NEC25 maximum length setting code content format: >!000104XX.

xx

Set variable, decimal range 0–255.

Example

- The maximum length of NEC25 is set to 9, then the setting code content is: >!0001049.
- The maximum length of NEC25 is set to 20, then the setting code content is: >!00010420.

Method 2: Scan the manual setting code

Scan the “NEC25 maximum length” setting barcode



NEC25 Maximum Length

Scan the “Digital Setup Code” .

Example

- The maximum length is 9 digits, scan 9.
- 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 1: Generate setup code

MATRIX25 minimum length setting code content format: >!000113XX.

xx

Set variable, decimal range 0–255.

Example

- The minimum length of MATRIX25 is set to 2, then the setting code content is: >!0001132.
- The minimum length of MATRIX25 is set to 12, then the setting code content is: >!00011312.

Method 2: Scan the manual setting code

Scan the “MATRIX25 minimum length” setting barcode



MATRIX25 Minimum Length

Scan the “Digital Setup Code” .

Example

- Minimum length 2 digits, scan 2.
- Minimum length 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 1: Generate setup code

MATRIX25 maximum length setting code content format: >!000114XX.

xx

Set variable, decimal range 0–255.

Example

- The maximum length of MATRIX25 is set to 9, then the setting code content is: >!0001149.
- The maximum length of MATRIX25 is set to 20, then the setting code content is: >!00011420.

Method 2: Scan the manual setting code

Scan the “MATRIX25 maximum length” setting barcode



MATRIX25 Maximum Length

Scan the “Digital Setup Code” .

Example

- The maximum length is 9 digits, scan 9.
- The maximum length is 20 digits, scan 2, 0.

Scan the “OK” setting barcode to end the setting

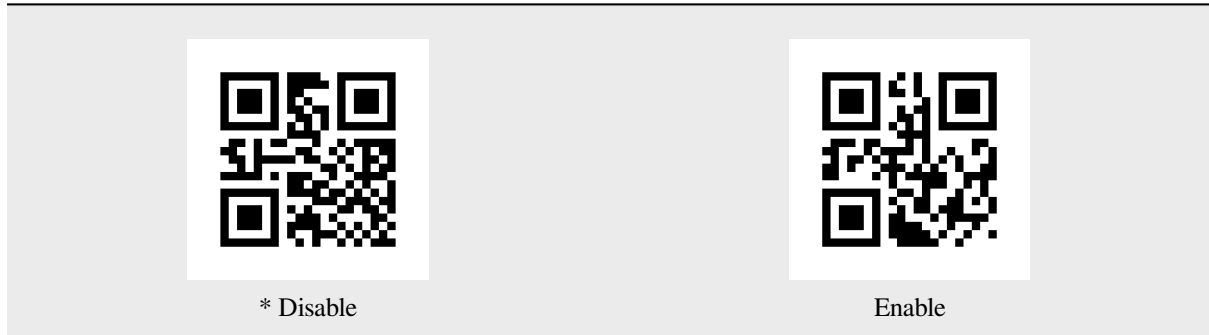


Sure

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 1: Generate setup code

IND25 minimum length setting code content format: >!000123XX.

XX

Set variable, decimal range 0–255.

Example

- The minimum length of IND25 is set to 2, then the setting code content is: >!0001232.
- The minimum length of IND25 is set to 12, then the setting code content is: >!00012312.

Method 2: Scan the manual setting code

Scan the “IND25 minimum length” setting barcode



IND25 Minimum Length

Scan the “Digital Setup Code” .

i Example

- Minimum length 2 digits, scan 2.
- Minimum length 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 1: Generate setup code

IND25 maximum length setting code content format: >!000124XX.

XX

Set variable, decimal range 0–255.

i Example

- The maximum length of IND25 is set to 9, then the setting code content is: >!0001249.
- The maximum length of IND25 is set to 20, then the setting code content is: >!00012420.

Method 2: Scan the manual setting code

Scan the “IND25 maximum length” setting barcode



IND25 Maximum Length

Scan the “Digital Setup Code” .

Example

- The maximum length is 9 digits, scan 9.
- 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 1: Generate setup code

STD25 minimum length setting code content format: >!000133XX.

xx

Set variable, decimal range 0–255.

Example

- The minimum length of STD25 is set to 2, then the setting code content is: >!0001332.
- The minimum length of STD25 is set to 12, then the setting code content is: >!00013312.

Method 2: Scan the manual setting code

Scan the “STD25 minimum length” setting barcode



STD25 Minimum Length

Scan the “Digital Setup Code” .

Example

- Minimum length 2 digits, scan 2.
- Minimum length 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 1: Generate setup code

STD25 maximum length setting code content format: >!000134XX.

xx

Set variable, decimal range 0–255.

Example

- The maximum length of STD25 is set to 9, then the setting code content is: >!0001349.
- The maximum length of STD25 is set to 20, then the setting code content is: >!00013420.

Method 2: Scan the manual setting code

Scan the “STD25 maximum length” setting barcode



STD25 Maximum Length

Scan the “Digital Setup Code” .

Example

- The maximum length is 9 digits, scan 9.
- 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

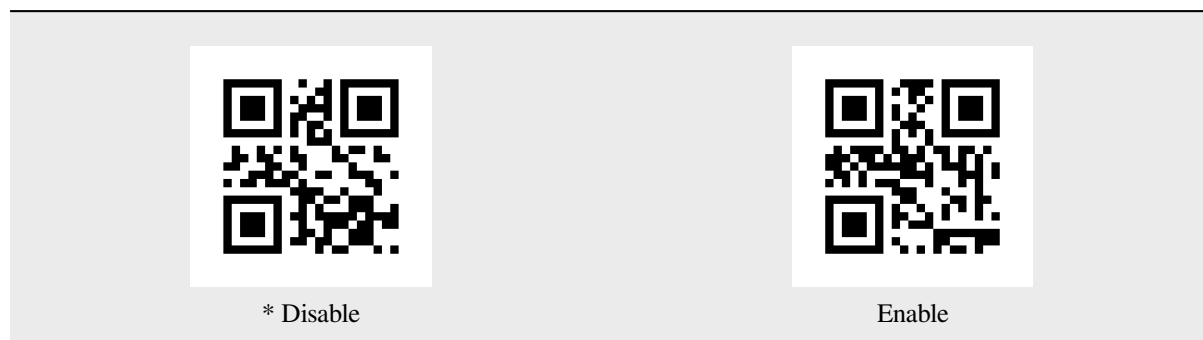
Code 39 Start Character/end Character Transmission

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

	
* Disable	Enable

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 1: Generate setup code

Code 39 minimum length setting code content format: >!000145XX.

xx

Set variable, decimal range 0–255.

Example

- Code 39 minimum length is set to 2, then the setting code content is: >!0001452.
- The minimum length of Code 39 is set to 12, then the setting code content is: >!00014512.

Method 2: Scan the manual setting code

Scan the “Code 39 Minimum Length” setting barcode



Code 39 Minimum Length

Scan the “Digital Setup Code” .

Example

- Minimum length 2 digits, scan 2.

- Minimum length 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 1: Generate setup code

Code 39 Maximum length setting code content format: >!000146XX.

xx

Set variable, decimal range 0–255.

Example

- The maximum length of Code 39 is set to 9, then the setting code content is: >!0001469.
- The maximum length of Code 39 is set to 20, then the setting code content is: >!00014620.

Method 2: Scan the manual setting code

Scan the “Code 39 Maximum Length” setting barcode



Code 39 Maximum Length

Scan the “Digital Setup Code” .

Example

- The maximum length is 9 digits, scan 9.

- 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.



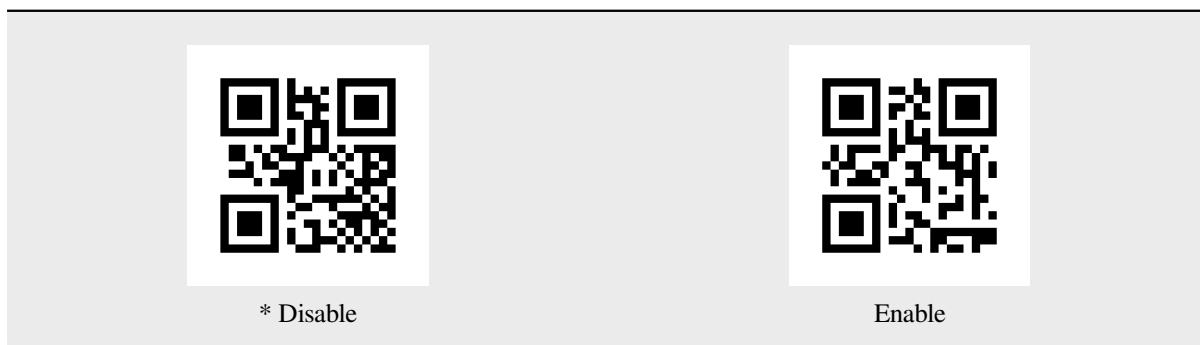
* Disable



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.

 * Disable	 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.

 * Disable	 Enable
--	--

Codabar Start Character/end Character Transmission

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

 Disable	 * 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 1: Generate setup code

Codabar minimum length setting code content format: >!000156XX.

xx

Set variable, decimal range 0–255.

i Example

- The minimum length of Codabar is set to 2, then the setting code content is: >!0001562.
- The minimum length of Codabar is set to 12, then the setting code content is: >!00015612.

Method 2: Scan the manual setting code

Scan the “Codabar Minimum Length” setting barcode



Codabar Minimum Length

Scan the “Digital Setup Code” .

i Example

- Minimum length 2 digits, scan 2.
- Minimum length 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 1: Generate setup code

Codabar maximum length setting code content format: >!000157XX.

xx

Set variable, decimal range 0–255.

i Example

- The maximum length of Codabar is set to 9, then the setting code content is: >!0001579.
- The maximum length of Codabar is set to 20, then the setting code content is: >!00015720.

Method 2: Scan the manual setting code

Scan the “Codabar Maximum Length” setting barcode



Codabar Maximum Length

Scan the “Digital Setup Code” .

i Example

- The maximum length is 9 digits, scan 9.
- 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 1: Generate setup code

Code 93 minimum length setting code content format: >!000163XX.

xx

Set variable, decimal range 0–255.

Example

- Code 93 minimum length is set to 2, then the setting code content is: >!0001632.
- The minimum length of Code 93 is set to 12, then the setting code content is: >!00016312.

Method 2: Scan the manual setting code

Scan the “Code 93 Minimum Length” setting barcode



Code 93 Minimum Length

Scan the “Digital Setup Code” .

Example

- Minimum length 2 digits, scan 2.
- Minimum length 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 1: Generate setup code

Code 93 maximum length setting code content format: >!000164XX.

xx

Set variable, decimal range 0-255.

Example

- The maximum length of Code 93 is set to 9, then the setting code content is: >!0001649.
- The maximum length of Code 93 is set to 20, then the setting code content is: >!00016420.

Method 2: Scan the manual setting code

Scan the “Code 93 Maximum Length” setting barcode



Code 93 Maximum Length

Scan the “Digital Setup Code” .

Example

- The maximum length is 9 digits, scan 9.
- 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.



* Disable



Enable

Code 11 Check Digit Verification

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



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.



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 1: Generate setup code

Code 11 minimum length setting code content format: >!000173XX.

XX

Set variable, decimal range 0-255.

Example

- The minimum length of Code 11 is set to 2, then the setting code content is: >!0001732.
- The minimum length of Code 11 is set to 12, then the setting code content is: >!00017312.

Method 2: Scan the manual setting code

Scan the “Code 11 Minimum Length” setting barcode



Code 11 Minimum Length

Scan the “Digital Setup Code” .

Example

- Minimum length 2 digits, scan 2.
- Minimum length 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 1: Generate setup code

Code 11 maximum length setting code content format: >!000174XX.

XX

Set variable, decimal range 0–255.

Example

- The maximum length of Code 11 is set to 9, then the setting code content is: >!0001749.
- The maximum length of Code 11 is set to 20, then the setting code content is: >!00017420.

Method 2: Scan the manual setting code

Scan the “Code 11 Maximum Length” setting barcode



Code 11 Maximum Length

Scan the “Digital Setup Code” .

Example

- The maximum length is 9 digits, scan 9.
- The maximum length is 20 digits, scan 2, 0.

Scan the “OK” setting barcode to end the setting

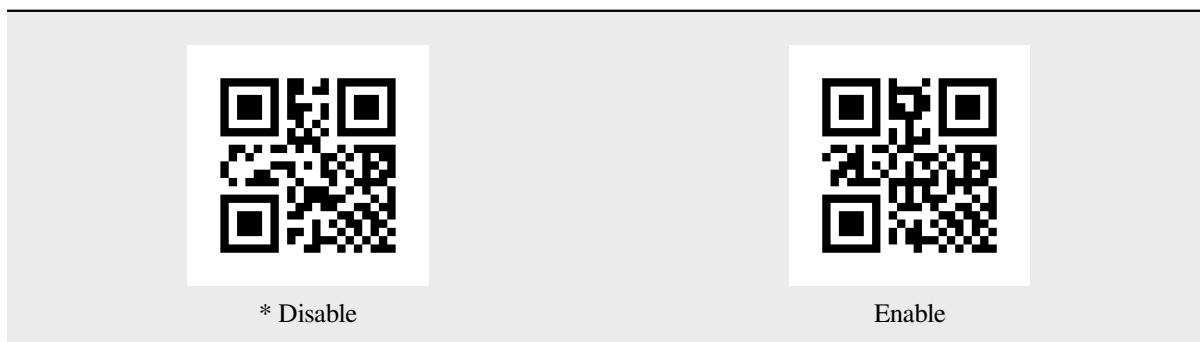


Sure

MSI Plessey

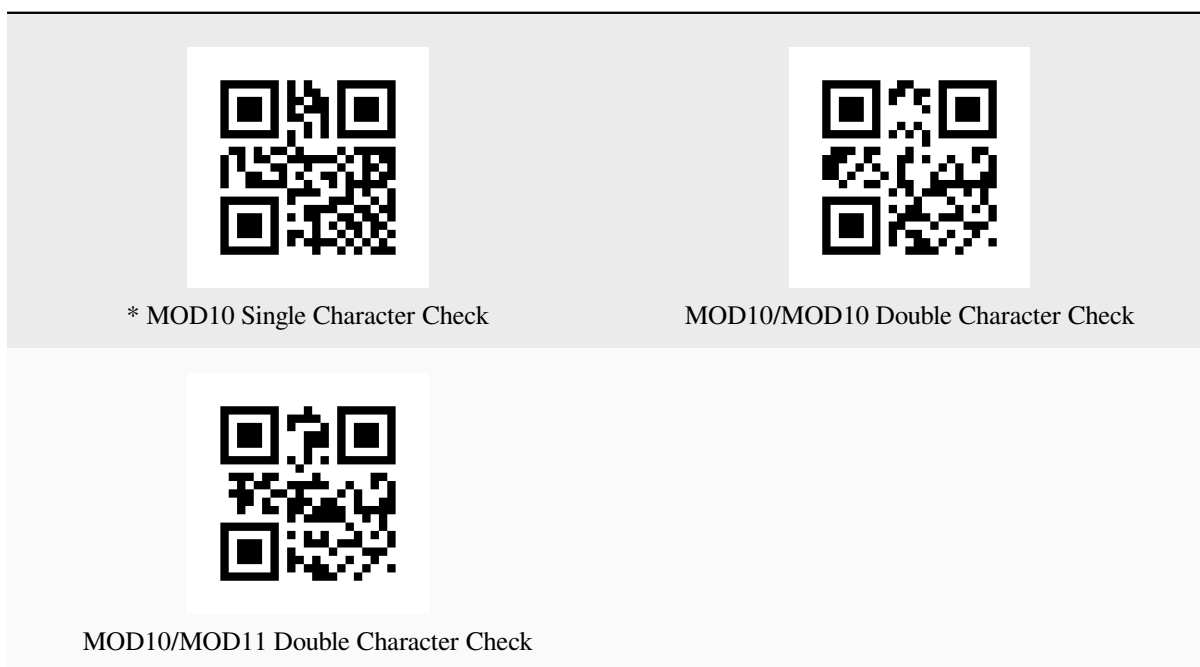
MSI Plessey Switch

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



MSI Plessey Check Digit Verification

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



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 1: Generate setup code

MSI Plessey minimum length setting code content format: >!000193XX.

xx

Set variable, decimal range 0–255.

Example

- The minimum length of MSI Plessey is set to 2, then the setting code content is: >!0001932.
- The minimum length of MSI Plessey is set to 12, then the setting code content is: >!00019312.

Method 2: Scan the manual setting code

Scan the “MSI Plessey Minimum Length” setup code



MSI Plessey Minimum Length

Scan the “Digital Setup Code” .

Example

- Minimum length 2 digits, scan 2.
- Minimum length 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 1: Generate setup code

MSI Plessey maximum length setting code content format: >!000194XX.

xx

Set variable, decimal range 0–255.

Example

- The maximum length of MSI Plessey is set to 9, then the setting code content is: >!0001949.
- The maximum length of MSI Plessey is set to 20, then the setting code content is: >!00019420.

Method 2: Scan the manual setting code

Scan the “MSI Plessey Maximum Length” setup code



MSI Plessey Max Length

Scan the “Digital Setup Code” .

Example

- The maximum length is 9 digits, scan 9.
- 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
---	---

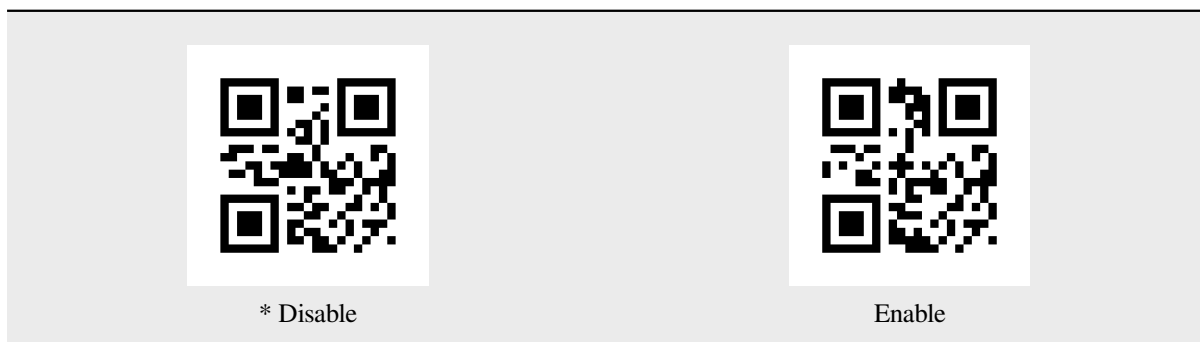
HONG KONG 2 OF 5/CHINA POST

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.

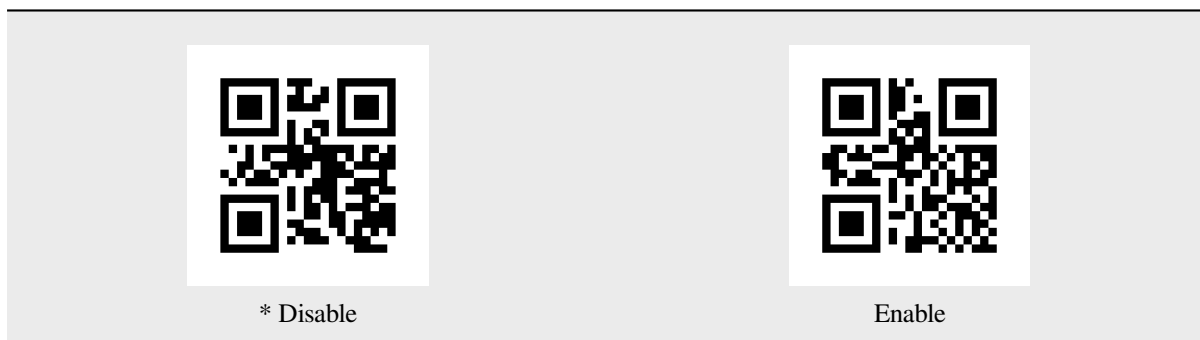


KOREA POST Check Digit Transmission

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



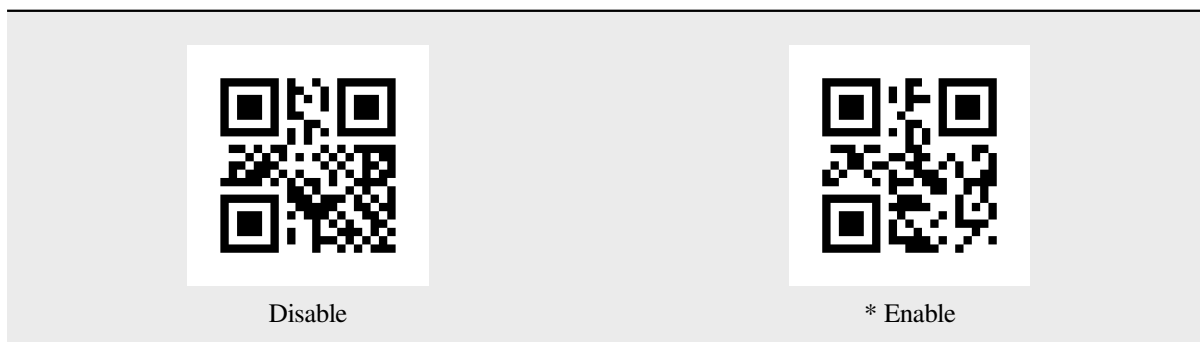
KOREA POST Data Reversed



PDF417

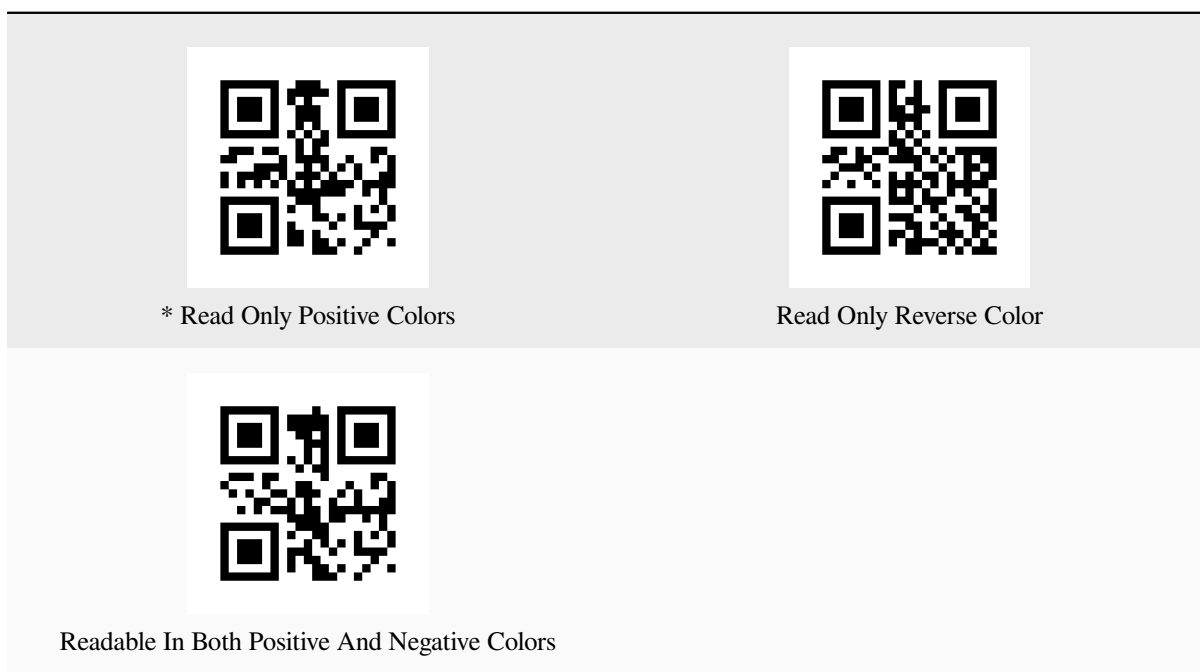
PDF417 Switch

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.



QR Code

QR Switch

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



QR Code Front And Back Color Reading

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

	
* Read Only Positive Colors	Read Only Reverse Color
	
Readable In Both Positive And Negative Colors	Read Only Normal Color (reverse Color Code)

QR Code Mirror Reading

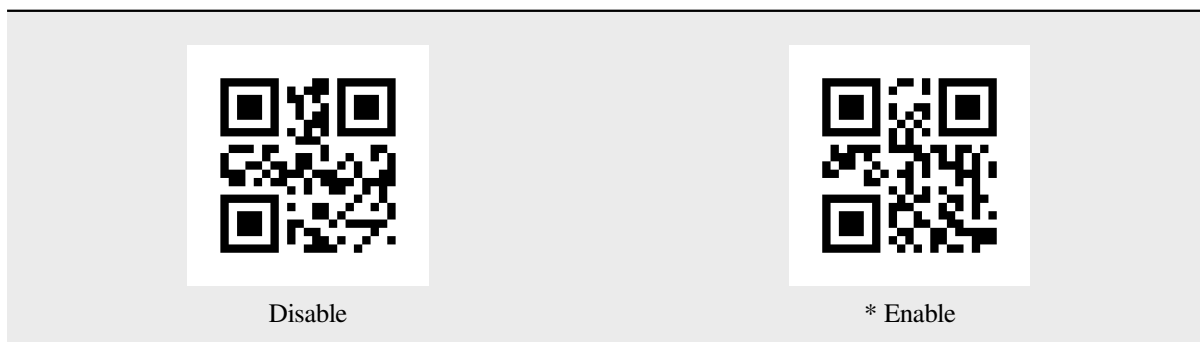
Read the following setting barcode to set whether the image QR Code can be read.

	
Disable	* Enable

Data Matrix (DM)

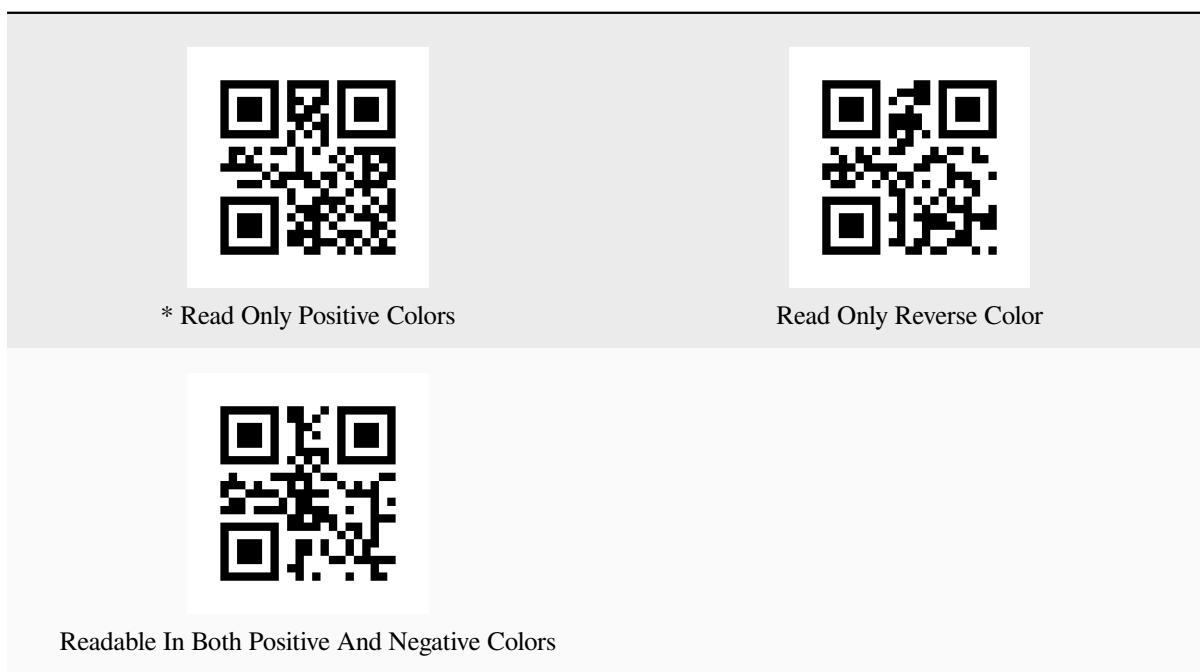
Data Matrix Switch

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



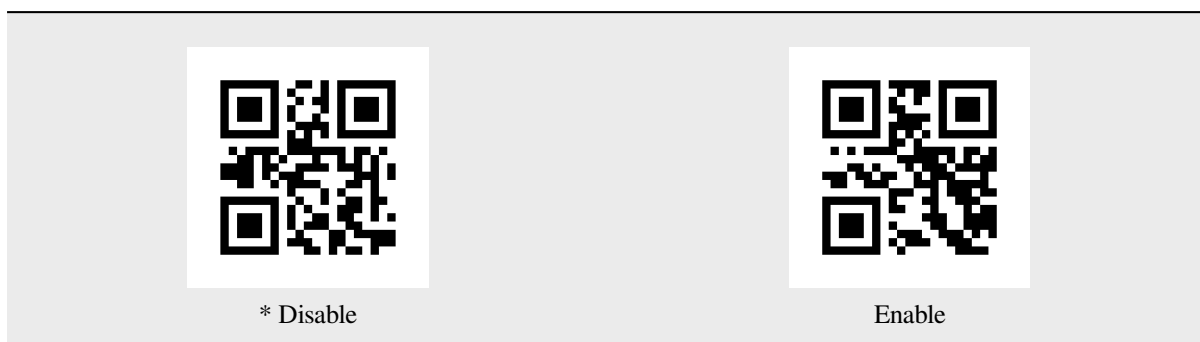
Data Matrix Positive And Negative Color Reading

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

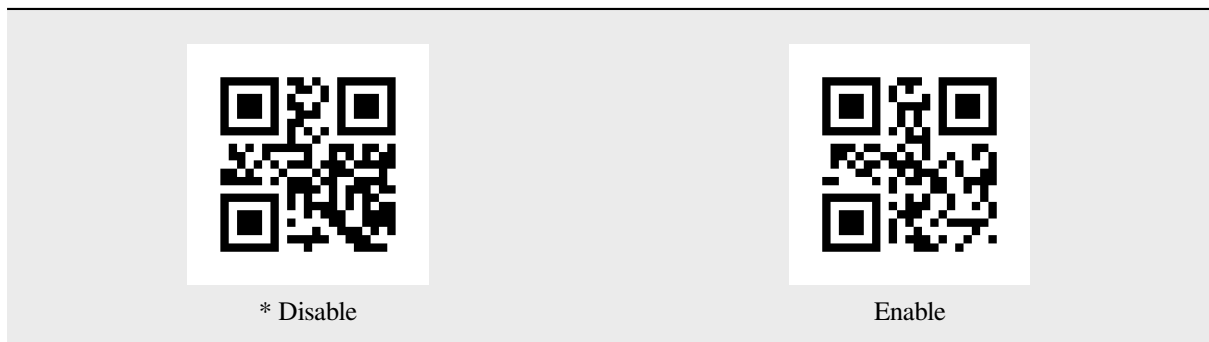


Data Matrix Image Reading

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

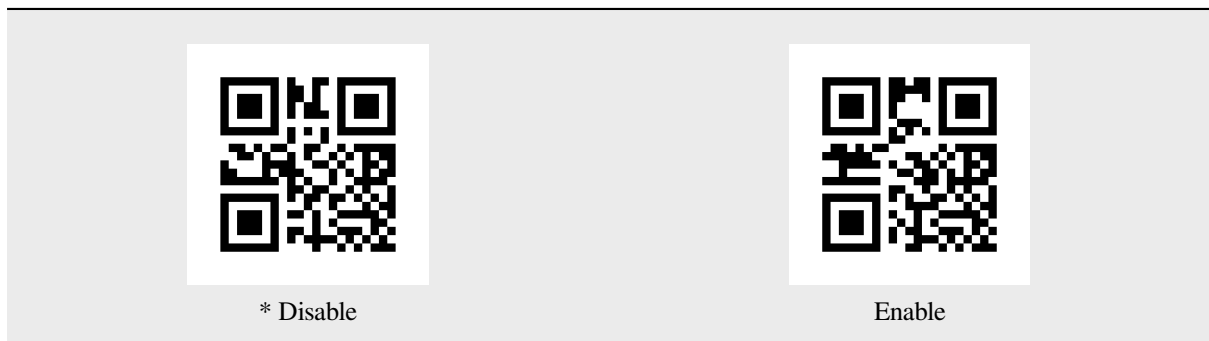


DM ECI Control



Aztec Code

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



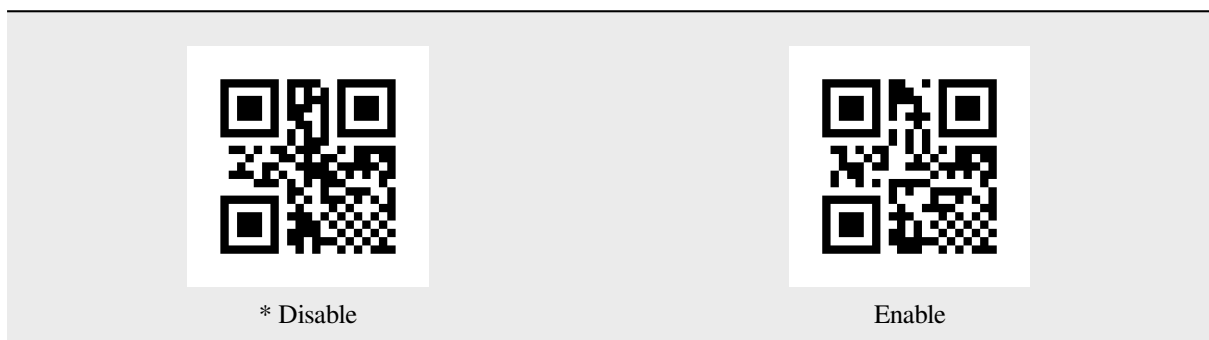
M Series - Symbology Enable/Disable Configuration

M series products support all symbologies of the L series, and add the symbologies listed in this chapter based on the L series.

Pharmacode One-Track

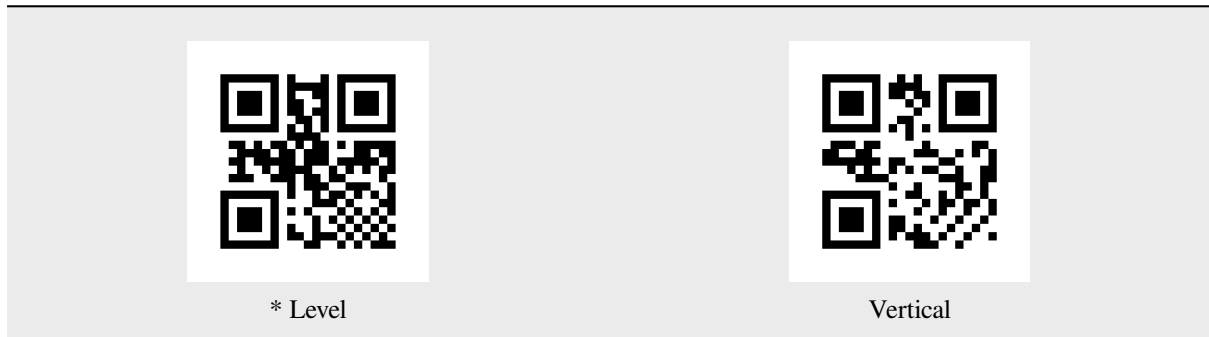
PHARMACODE ONE-TRACK Switch

Read the following setting barcode to enable/disable reading of PHARMACODE ONE-TRACK barcodes.



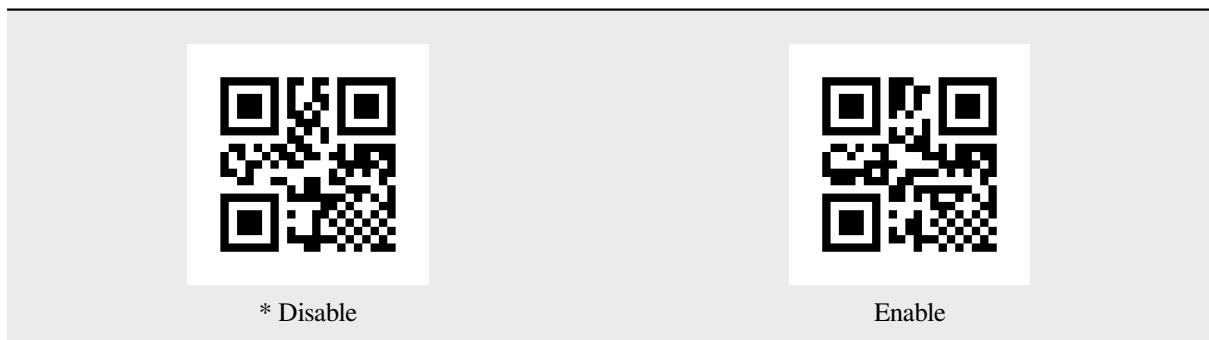
PHARMACODE ONE-TRACK Barcode Direction

Read the following setting barcode to set the horizontal/vertical direction of the PHARMACODE ONE-TRACK barcode.



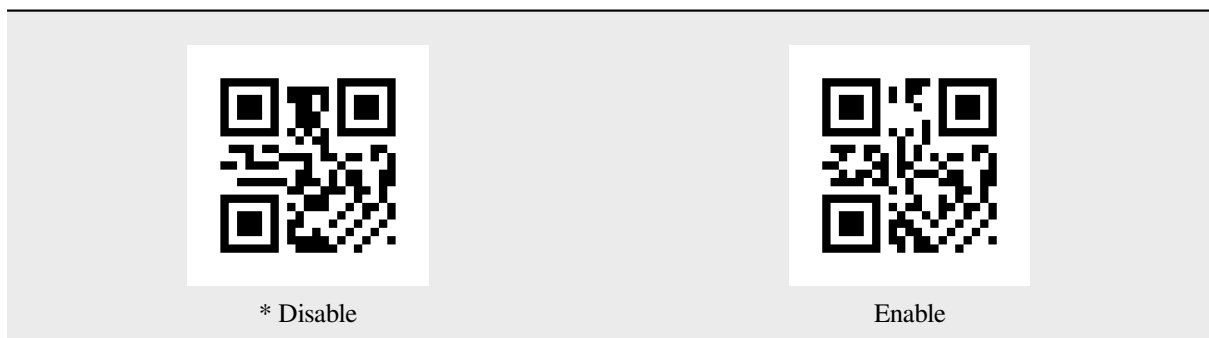
PHARMACODE ONE-TRACK Data Reversed

Read the following setting barcode to enable/disable inversion of PHARMACODE ONE-TRACK barcode data.



Codablock A

Read the following setting barcode to enable/disable CODABLOCK A barcode reading.



Codablock F

Read the following setting barcode to enable/disable CODABLOCK F barcode reading.

 * Disable	 Enable
--	--

MaxiCode

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

 * Disable	 Enable
---	---

Han Xin

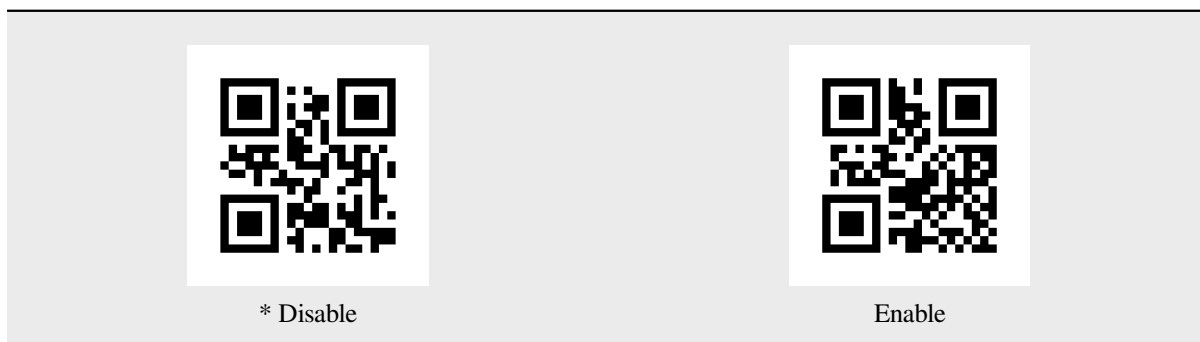
HAN XIN Switch

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

 * Disable	 Enable
--	--

HAN XIN Code ECI Control

Read the following setting barcode to set whether the HAN XIN code outputs ECI.



DotCode

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



H Series - Symbology Enable/Disable Configuration

H series products support all symbologies of the M series, and add the symbologies listed in this chapter based on the M series.

Postal Code

POSTAL CODE Switch

Read the following setting barcode to enable/disable POSTAL CODE reading.

Note

Only One Postal Code Can Be Enabled At A Time By Default



* Disable



Australian



British、 Royal Mail(RM4CSS)



Intelligent Mail Bar



Japanese Post



KIX Post



Planet Code



USPS Postnet



Postal-4i/UPU FICS/UPU4-State

Planet Code Check Digit Transmission

Read the following setting barcode to enable/disable transmission of the Planet code check digit.



Disable



* Enable

USPS Postnet Check Digit Transmission

Read the following setting barcode to set the USPS Postnet check digit to enable/disable transmission.



Disable



* Enable

GM

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



* Disable



Enable

OCR

OCR Switch

Read the following setting barcode to enable/disable OCR character reading.

Note

Only Supports Chinese ID Card Recognition



* Disable



Enable

China ID Card Verification

Read the following setting barcode to enable/disable ID card verification.



* Disable



Enable

11.6 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



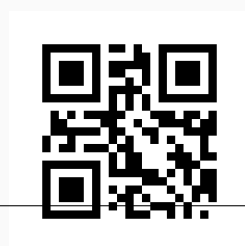
8



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.